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Diana R. Christy
Director, MSD



MSD Legislative Fact Sheet

12/10/2021

General Legislative Information	Project Name, Sewer No., & ID:	2022-2026 CAPITAL IMPROVEMENT PROGRAM METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI
	Project Location:	At various locations throughout the Metropolitan Sewer District service area in Hamilton County, Ohio
	Funding Type:	CAPITAL
	Legislative Action Requested¹⁻⁶:	Resolutions approving: 1. The 2022-2026 MSD CIP, generally, including funding of EXHIBITS A and B; 2. The preparation of plans, as applicable, for projects listed in EXHIBIT A; 3. The general plan, necessity, and construction of projects listed in EXHIBIT B; 4. The advertisement and bidding of projects listed in EXHIBIT B
	Funding:	\$91,831,384.00 (current request); \$136,098,413.00 (estimated cost)

PROJECT PURPOSE:

The current request is for approval of MSD's 2022-2026 capital improvement program (CIP) budget and appropriation of funds for project's included in this budget's EXHIBIT A – for planning, project design, project easement acquisition activities, and other spending (MSD Labor, Program Management, Programmatic Contingency, and County Oversight), and EXHIBIT B – for construction allowance activities that are either essential to the continuous operation of MSD, or address either wastewater system asset stabilizations or asset maintenance.

MSD's total recommended CIP budget for 2022 is \$136,098,413.00 for 55 projects. Of this amount, approximately 84% (\$114.3M) is budgeted for projects, and approximately 16% (\$22M) is budgeted for four "Other" spending (MSD labor, programmatic contingency, program management, and County oversight). The 2022 capital program includes the various allowances that permit on-going critical maintenance work to proceed upon budget adoption as part of the categories listed above.

1. **Design** – may include resolutions authorizing preparation of detailed plans, specifications, and estimate of cost and appropriating funds for the same; appropriating additional funds for design
2. **Easement** – may include resolutions for easement acquisition funds appropriation; approving detailed plans, specifications and estimate of cost; declaring project necessity and intent to proceed with construction, appropriating easements or full fee takes.
3. **Construction** - Includes resolutions approving detailed plans, specifications and estimate of cost; declaring project necessity and intent to proceed with construction; appropriating funds for construction; authorizing project advertisement & bid.
4. **Various Assessment Actions** - may include: Public Hearing; Objection Disposal; Proceed Resolution.
5. **Design-Build** – may include Progressive and Traditional design-build processes.
6. **Other** - Includes resolutions amending the MSD CIP and other actions not covered above. Purpose is listed.

2022-2026 MSD CIP

PROJECT PURPOSE (cont.):

Also included in the 2022 MSD CIP funding request are: (1) MSD Labor Allowance, (2) Program Management, (3) 2022 Programmatic Contingency, and (4) County Oversight. All of these items are part of the EXHIBIT A budget.

- MSD proposes to continue its capitalized labor allowance, first developed with the 2020 CIP, to charge employee labor costs for work done on capital projects. This is a cost-neutral budget item as the labor costs would otherwise be included within specific projects in the 2022 CIP. Costs are allocated appropriately as a part of year-end accounting.
- The Program Management allowance is used to fund expert support required to implement the capital program, and for support of the Consent Decree's current and future phases. In addition to providing expert staff for ongoing project controls functions (scheduling, cost estimating, and KPI reporting), this funding allows for further implementation of the new eBuilder Project Management Information System (PMIS) that is supported by the County, and will integrate seamlessly with the new Project Delivery System (PDS) as developed by MSD staff. These costs will be allocated to projects as appropriate at the end of the budget year.
- MSD uses Programmatic Contingency to fund construction and design change orders for all projects in the capital program. Project budgets in the CIP do not include a contingency line item.

The projects and costs listed for years 2022-2026 reflect known reinvestment needs required to keep existing assets in operation in accordance with required levels of service, and the continuation of projects authorized for planning and design in the current and prior budget years. It should be noted that there remains a great deal of uncertainty with regard to out-year projects and expenditures due to ongoing Consent Decree Phase 2A negotiations with Regulators.

Out of the 55 projects on the 2022 MSD CIP, County Commissioner action is necessary on 47 through this legislation. The City of Cincinnati and MSD request the County Commissioners to consider, approve, and appropriate a total of \$91.8M for the following actions:

- (1) Approve, in general, the submitted 2022-2026 MSD CIP; and
- (2) Order the commencement of planning, design, and easement acquisition activities, or other spending (for MSD labor, program management, programmatic contingency, and County oversight), for 43 projects contained in the 2022 MSD CIP's Exhibit A and appropriate \$58.4M of the above-referenced \$91.8M for the same; and
- (3) Take all actions necessary to progress with construction activity on four allowance projects contained in the 2022 MSD CIP's Exhibit B and appropriate \$33.5M of the above-referenced \$91.8M for the same.

2022-2026 MSD CIP

Background Data, Schedules, & Budget	Prior Legislation:		SUBJECT			
			• None			
	Future Legislation:		As necessary and required			
	Construction Schedule:		PROJECT START: various according to project			
			PROJECT FINISH: various according to project			
	CIP Year(s):		2022 - 2026			
	BUDGET SPECIFICS	ITEM	PRIOR APPROVAL	CURRENT REQUEST	FUTURE REQUEST	TOTALS
		EXHIBIT A	\$ 0.00	\$58,373,474.00	\$ 0.00	\$58,373,474.00
		EXHIBIT B	\$ 0.00	\$33,457,910.00	\$ 0.00	\$33,457,910.00
		Subtotals	\$ 0.00	\$91,831,384.00	\$0.00	\$91,831,384.00
Total Appropriation –Exhibits A and B				\$91,831,384.00		
(various Project IDs)						
2022 MSD CIP					\$136,098,413.00	



December 10, 2021

Honorable Board of County Commissioners
Hamilton County, Ohio
% Mr. Jeff Aluotto
Hamilton County Administrator
Todd B. Portune Center for County Government
138 E. Court Street, Room 603
Cincinnati, Ohio 45202

Honorable Commissioners:

Enclosed for your consideration are resolutions to facilitate the adoption of the Metropolitan Sewer District of Greater Cincinnati's ("MSD") 2022-2026 Capital Improvement Program (CIP), which has been revised from the version previously submitted to the County on November 18, 2021, pursuant to subsequent discussions between the City and County regarding content.

MSD's revised total recommended CIP budget for 2022 is \$136,098,413 for 55 projects. Of this amount, approximately 84% (\$114.3M) is budgeted for projects and approximately 16% (\$22M) is budgeted for other spending (MSD labor, programmatic contingency, program management, and County oversight). The 2022 capital program also includes the various allowances that permit on-going critical maintenance work to proceed upon budget adoption as part of the categories listed above.

The 2022 MSD CIP budget book contains both EXHIBIT A – for planning, project design, and project easement acquisition activities, and EXHIBIT B – for capital allowance activities that are either essential to the continuous operation of MSD, addressing prioritized asset management work that does not require significant time or resources for planning and design, or address urgent and critical wastewater system asset needs. Examples of this allowance work include sewer relining and rehabilitation in the collection system, and the purchase and installation of small equipment such as pumps, heating and conditioning units, and electrical equipment for treatment facilities.

Out of the 55 projects in the 2022 MSD CIP, this legislation provides for County Commissioner funds appropriation action on 47 projects. The City of Cincinnati and MSD request the County Commissioners to consider, approve, and appropriate a total of \$91.8M for the following actions:

- (1) Approve, in general, the submitted 2022-2026 MSD CIP; and
- (2) Order the commencement of planning, design, and easement acquisition activities for 43 projects contained in the 2022 MSD CIP's Exhibit A, which includes MSD 2022 Programmatic Contingency (\$5M), MSD labor (\$5.5M), Program Management (\$7M), and County oversight (\$4.5M), and appropriate \$58.4M of the above-referenced \$91.8M for the same; and
- (3) Take all actions necessary to progress with construction activity on four allowance projects contained in the 2022 MSD CIP's Exhibit B and appropriate \$33.5M of the above-referenced \$91.8M for the same.

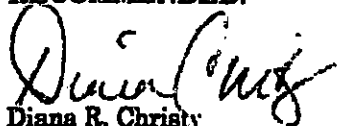
...continued

December 10, 2021

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The remaining projects in the 2022 MSD CIP will be presented to the Commissioners for funding construction legislation when ready to proceed with that project milestone activity.

RECOMMENDED:



Diana R. Christy
Director, MSD

Approved:



Paula Boggs Muething
City Manager

Provided to Hamilton County on 12/14/21 

Reviewed by Karen Ball 12/14/21 and recommended by County Administration.

On motion of Ms. Summer Davis seconded by Ms. Reegy, the following resolutions were adopted...

MSD RESOLUTION

**APPROVING AND ADOPTING THE
2022-2026 CAPITAL IMPROVEMENT PROGRAM
FOR
THE METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI,
HAMILTON COUNTY, OHIO**

AND APPROPRIATING FUNDS THEREFOR

WHEREAS, the Metropolitan Sewer District of Greater Cincinnati (the "MSD") was established by the Board of County Commissioners, Hamilton County, Ohio (the "Board") and exists as a County Sewer District pursuant to Chapter 6117 of the Ohio Revised Code; and

WHEREAS, the Board and the City of Cincinnati ("City") are parties to an agreement dated April 10, 1968 under which the City undertakes the management and operation of the MSD for and on behalf of the Board, subject to the exclusive control and direction of the Board as provided in said agreement (the "1968 Agreement"); and

WHEREAS, Section V.3.a of the 1968 Agreement provides the City will annually prepare a Capital Improvement Program for the five-year period of the year next ensuing ("MSD CIP"); and

WHEREAS, Section V.3.b. of the 1968 Agreement provides the Board shall hold a public hearing on the MSD CIP as submitted and shall "adopt, or modify and adopt the capital improvement program for the sewer system"; and

WHEREAS, the Director of MSD has submitted an MSD CIP for calendar years 2022-2026 ("2022-2026 MSD CIP"), which was developed using MSD's best professional judgment and industry standards with regard to project planning, design, construction, and performance evaluation (post construction monitoring); and

WHEREAS, this Board has reviewed the 2022-2026 MSD CIP as submitted by the Director of MSD; and

WHEREAS, after legal advertisement, this Board did conduct public hearings on December 2 and December 7, 2021 regarding the 2022-2026 MSD CIP, at which hearings all persons desiring to ask questions and make statements were afforded such opportunity; and

WHEREAS, this Board did, on December 7, 2021, conclude said public hearings on the 2022-2026 MSD CIP; and

WHEREAS, this Board has reviewed said 2022-2026 MSD CIP; and

WHEREAS, by approving this 2022-2026 MSD CIP, the Board is specifically authorizing the preparation of detailed plans, specifications, estimates of cost, and/or other relevant documents for the projects and allowances contained in Exhibit A, which is attached hereto and incorporated by reference; and

WHEREAS, by approving this 2022-2026 MSD CIP, the Board is also specifically approving the detailed plans, specifications, estimates of cost, and/or other relevant documents for the allowance projects contained in Exhibit B, which are attached hereto and incorporated by reference; and

WHEREAS, by approving this 2022-2026 MSD CIP, the Board is requiring that any project, when ordered to be constructed, to have specific authorization and appropriation of funds through legislation passed by the Board; and

WHEREAS, the respective projects' and allowances' activities, as contained in Exhibits A and B, are for the purpose of acquiring, constructing, and improving capital assets to be used in the operation and maintenance of the MSD, as operated under Chapter 6117 of the Ohio Revised Code ("R.C.") and in compliance with R.C. Section 133.01(Z); and

WHEREAS, it has been determined sufficient unappropriated funds are available for use by the MSD to temporarily finance construction costs prior to the issuance of long-term revenue bonds.

NOW, THEREFORE, BE IT RESOLVED, by the Board of County Commissioners of Hamilton County, Ohio, that the 2022-2026 Capital Improvement Program of the Metropolitan Sewer District of Greater Cincinnati for the period of January 1, 2022 - December 31, 2022, which is inclusive of Exhibits A and B, be and is hereby approved and adopted.

BE IT FURTHER RESOLVED that:

- 1. The sum of ninety-one million eight hundred thirty-one thousand three hundred eighty-four dollars (\$91,831,384.00) currently existing in unappropriated funds available for use by the MSD in Capital Improvement Fund 704 maintained by the City of Cincinnati, and the Surplus Account held at US Bank, are hereby appropriated to pay costs for planning, design, property acquisition, and/or other related pre-construction activity costs incurred in connection with the 2022-2026 MSD CIP as outlined in Exhibits A and B.**
- 2. Of the \$91,831,384.00 being appropriated, \$58,373,474.00 is to be used for (a) planning activities and studies; (b) the preparation of detailed plans, specifications, and estimates of cost; (c) project-related property acquisitions; (d) a combination of these project activities; or (e) other spending (in the case of MSD Labor, Programmatic Contingency, Program Management, and County Oversight projects) for 43 projects contained in and outlined in Exhibit A.**
- 3. Of the \$91,831,384.00 being appropriated, \$33,457,910.00 is to be used for construction activities of only the four items contained in and outlined in Exhibit B.**

BE IT FURTHER RESOLVED that:

SECTION 1. Hamilton County, Ohio (the "County") may be expected to pay and/or incur costs with respect to the Projects ("Prior Capital Expenditures") on or after the date of this resolution and prior to the issuance of the obligations (the "Obligations") which will finance the projects defined in Exhibits A and B.

SECTION 2. The Board of County Commissioners hereby approves the use of the Obligations in the maximum principal amount of ninety-one million eight hundred thirty-one thousand three hundred eighty-four dollars (\$91,831,384.00) to finance the costs of the Project and declares its intent that any Prior Capital Expenditures made by the County will be made in anticipation of the Issuance of such Obligations to reimburse said Prior Capital Expenditures. This declaration is made pursuant to Treas. Reg. Section 1.150-2 or any successor thereto.

SECTION 3. The County Administrator, the Director of the Metropolitan Sewer District, the Director of Finance of the City of Cincinnati, the County Auditor and/or US Bank, N.A., as Trustee, each as applicable, are hereby authorized and directed to reimburse, not later than eighteen months after the later of (i) the date the original expenditure was paid or (ii) the date the item was placed in service, only those Prior Capital Expenditures from projects contained in Exhibits A and B and made with respect to assets having a reasonably expected economic life of at least one year, and, in addition, eligible preliminary expenditures paid and incurred in connection with the Project from the Revenue Fund, Replacement and Improvement Account and/or the Surplus Account.

SECTION 4. The Board of County Commissioners finds and determines that, consistent with the County's budgetary and financial circumstances, it does not have funds currently available and does not expect to have funds available in the future that may be allocated on a long-term basis, other than the proceeds of the Obligations, to finance the Prior Capital Expenditures from projects contained in Exhibits A and B.

SECTION 5. The Board of County Commissioners hereby directs the County Administrator, the Director of the Metropolitan Sewer District, the Director of Finance of the City of Cincinnati, the County Auditor and/or US Bank, N.A., as Trustee, each as applicable, to take the following action at the time the Prior Capital Expenditures from projects contained in Exhibits A and B are reimbursed from proceeds of the Obligations only if said reimbursement relieves the proceeds used for reimbursement from any restrictions imposed by both legal documents under which the Obligations were issued and applicable state law: (1) evidence the reimbursement on the books and records maintained with respect to the Obligations, and (2) identify either the actual prior expenditure to be reimbursed or, in the case of reimbursement of a fund or account, the fund or account from which the expenditure was paid.

SECTION 6. The books, records, and proceedings of the County with respect to this resolution shall be made reasonably available by the County, for inspection by the general public at the County's administrative office every business day during normal business hours commencing no later than 30 days after the passage of this resolution. Said books, records, and proceedings of the County with respect to this resolution will continue to be reasonably available to the general public until the date of issuance of the Obligations.

BE IT FURTHER RESOLVED, that the Board hereby authorizes the budget for and use of 2022 MSD CIP Programmatic Contingency, Project ID 13090000, as set forth in Exhibit A, notwithstanding the methodology contained in Section 2405-2(A)(7), "Capital Improvement Program (CIP) Contingency" of the MSD Rules and Regulations, to be calculated based upon 2022 CIP project costs, rather than cash flow costs, in order to simplify budget development methodology for this 2022 MSD CIP allowance.

BE IT FURTHER RESOLVED, that the purpose of the Phase 2 WWIP Planning 2022 Allowance, Project ID 10190222, and the CIP Planning Projects 2022 Allowance, Project ID 10282022, as detailed in Exhibit A, is for MSD to conduct preliminary investigations to determine whether a project should be created. MSD and the County will collaborate on the creation of any new projects to be approved by the Board.

BE IT FURTHER RESOLVED, that for the purposes of providing continuity of service, any project begun under the 2021 MSD CIP's Exhibit B suite of capital funding (for Project IDs funding 10180121, Main Sewer Renewal Program 2021; 10180221, Manhole Renewal Program 2021; 10281321, Prioritized Wastewater Collection System Improvements 2021; and 10280721, Critical Asset Management Projects 2021) are hereby authorized to continue to utilize their 2021 funding during 2022, notwithstanding the requirements of Section 2405-3(A)(1) of the MSD Rules and Regulations.

BE IT FURTHER RESOLVED, that the 2022-2026 MSD CIP budget book's out-year projects (2023-2026) and estimated projected budgets are subject to change based on ongoing engineering efforts, affordability considerations, and Consent Decree Phase 2A negotiations. These out year projects are included in the 2022-2026 MSD CIP for planning purposes only and their estimated budgets are not representative of final costs when presented for future legislative consideration. Future funding requests should not be evaluated against estimated out-year project costs contained in the 2022-2026 MSD CIP.

BE IT FURTHER RESOLVED, that the Clerk of this Board is hereby directed to certify copies of this resolution for Jeff Aluotto, Hamilton County Administrator; Paula Boggs Muething, Cincinnati City Manager; and Diana Christy, Director, MSD.

BE IT FURTHER RESOLVED, that this Board of County Commissioners hereby finds and determines that all formal actions relative to the adoption of this Resolution were taken in an open meeting of the Board of County Commissioners and that all deliberations of this Board of County Commissioners and of its committees, if any, which resulted in formal action were taken in meetings open to the public, in full compliance with applicable legal requirements, including Section 121.22 of the Ohio Revised Code.

ADOPTED at a regularly adjourned meeting of the Board of County Commissioners of Hamilton County, Ohio, this 14 day of December, 2021.

Ms. Summerow Dumas YES

Ms. Reece YES

Ms. Driehaus YES

**OFFICE OF THE DIRECTOR
THE METROPOLITAN SEWER DISTRICT
OF GREATER CINCINNATI**

December 10, 2021

**2022 CAPITAL IMPROVEMENT PROGRAM
EXHIBIT B**

**Honorable Board of County Commissioners
Hamilton County, Ohio**

I herewith certify for your approval the general plan of sewerage or drainage, that is as complete as can be developed at this time and that was devised with regard to existing sanitary or drainage facilities or prevention or replacement facilities in the district, and/or other relevant documents for the sanitary sewer projects contained in the 2022 Capital Improvement Program's Exhibit B, attached hereto and incorporated by reference, in the Metropolitan Sewer District of Greater Cincinnati.

Accompanying this certification and contained in Exhibit B, attached hereto and incorporated by reference, is an itemized listing of the costs of these improvements. I further certify that the general plan of sewerage or drainage, that is as complete as can be developed at this time and that was devised with regard to existing sanitary or drainage facilities or prevention or replacement facilities in the district, and/or other relevant documents have remained open to inspection of all persons interested in such improvements.

Respectfully submitted,



Ryan Welsh, P.E.

Deputy Director / Chief Engineer

City of Cincinnati Department of Sewers

Hamilton County Sanitary Engineer

(for the purposes of the Metropolitan Sewer District of Greater Cincinnati as authorized in the Resolution of February 28, 2007, Comm. Minutes, Vol. 305, Images 4190 - 4191)

2022-2026 MSD CIP EXHIBIT A



2022 CIP Projects

Metropolitan Sewer District of Greater Cincinnati

Planning/Design/Easement Funding Request (Exhibit A)

Project ID	Project Type	Project Name	P/D/E Funds Requested
10144888	FAC	MCWWTP High Rate Treatment Pump Station (Design)	\$14,000,000
10172095	SWR	CSO 182 Strategic Sewer Separation (Planning)	\$304,200
10172900	FAC	LMWWTP Standby Power (Design)	\$100,000
10190222	ALW	Phase 2 WWTP Planning 2022 (Planning)	\$2,587,500
10240426	PS	Pleasant Run Pump Station Upgrades (Design,Easement)	\$1,421,914
10281100	FAC	LMWWTP Solids Disposal With Odor Control (Design)	\$5,750,000
10199022	ALW	Program Management and Support Services 2022 (Design)	\$6,970,000
10199122	ALW	Hamilton County Utility Oversight and Coordination 2022 (Design)	\$4,554,000
13090000	CON	Programmatic Contingency (Design)	\$5,000,000
13099999	ALW	MSD LABOR (Design)	\$5,500,000
10222005	PS	Colerain-Bevis Pump Station Replacement (Planning)	\$310,000
10222015	PS	Straiford Lake Pump Station Elimination (Design)	\$20,000
10230170	SWR	Harrison Avenue North and South Hydraulic Improvements (Planning)	\$290,000
10232005	SWR	Benz Avenue (HN 1111) Sewer Replacement (Planning)	\$90,000
10232030	PS	Rapid Run and Foley Road PS Receiver Manhole Installation (Planning,Design,Easement)	\$244,400
10232035	SWR	CSO 541 Outfall Replacement (Planning)	\$209,600
10240445	SWR	Colton Lane Sewer Replacement (Design,Easement)	\$40,000
10240720	SWR	Valleyview Court Sewer Replacement (Design,Easement)	\$333,000
10240725	SWR	Shaffer Avenue Sewer Replacement (Design,Easement)	\$311,500
10240735	SWR	De Votic Avenue Sewer Replacement (Design,Easement)	\$350,000
10240740	SWR	Tennessee Avenue (HN 1754) Sewer Replacement (Design,Easement)	\$350,000
10240780	SWR	Galbraith Rd to Sheldon Avenue Sewer Replacement (Design,Easement)	\$446,500
10240810	SWR	Overlook Avenue near Glenway Ave Sewer Replacement (Design,Easement)	\$354,000
10242030	SWR	Dorchester Avenue at Highland Avenue Sewer Replacement (Design,Easement)	\$216,660
10242055	SWR	Queen City Avenue (HN 2047) Sewer Rehabilitation (Planning)	\$80,000
10242080	SWR	Fenton Avenue (HN 1336) Sewer Relocation (Planning)	\$110,000
10242085	PS	Village Woods Pump Station and System Improvements (Design)	\$34,000
10242090	SWR	Donna Lane & Ester Marie Drive Sewer Relocation and Rehab (Planning)	\$86,000
10242100	STY	Blair Avenue to Rockdale Avenue Sewer Study (Planning)	\$850,000
10242105	SWR	Loth Street (HN 2272) Sewer Relocation and Rehab (Planning)	\$160,000
10242110	SWR	Central Avenue and W 9th Street Sewer (Planning)	\$130,000
10242115	SWR	Central Avenue (HN 1964) Sewer (Planning)	\$105,000
10242150	FAC	Daly Road Treatment Facility Modifications (Design)	\$120,300
10242160	PS	Glen Landing Pump Station Force Main Replacement (Design)	\$18,500
10242165	FAC	MCWWTP Disinfection and Outfall (Planning)	\$1,113,900
10242170	SWR	CSX Railyard Assessment (Planning)	\$630,000
10242175	FAC	Mill Creek Power Building Decommissioning (Planning)	\$405,200
10272070	SWR	Summerview Low Pressure Forcemain (Design)	\$82,800



2022 CIP Projects

Metropolitan Sewer District of Greater Cincinnati

Planning/Design/Easement Funding Request (Exhibit A)

Project ID	Project Type	Project Name	P/D/E Funds Requested
10272075	SWR	Wayside Avenue and Colter Avenue Sewer Improvements (Planning)	\$122,100
10272080	SWR	Madison Rd and Edwards Rd Sewer Improvements (Planning)	\$196,900
10280242	ALW	Hydraulic Modeling 2022 (Planning)	\$1,242,000
10282022	ALW	CIP Planning Projects 2022 (Planning)	\$2,173,500
10282422	ALW	Flow Monitoring 2022 (Planning)	\$960,000
43 Planning/Design/Easement Projects in 2022			\$ 58,373,474

2022-2026 MSD CIP EXHIBIT B ESTIMATE OF COST

FY 2022 MSD CIP Funding Request
Metropolitan Sewer District of Greater Cincinnati
Estimate of Construction
Detailed Project Estimated Cost (Exhibit B)

ID#	CIP#	Project Name	Location	Explanation/Description	Expenditure Type	Resolution 1	Resolution 2	Resolution 3	Current Request	WSIP	AM	Proj Start	Proj End
10180122	NA	Main Sewer Renewal Program 2022	Throughout the MSD service area	This allowance addresses the renewal, repair, and rehabilitation of existing main sewers throughout MSD's service area using trenchless technologies. The program focuses on structurally deteriorated main sewers to improve the hydraulic performance of the sewer. Building sewers are excluded. Trenchless technologies have many benefits such as; shorter duration, durable, safer, and cost effective. This program's scope will include, but not limit itself to, slip-lining, point lining, spiral wound lining, pipe bursting, carbon filament wrapping, directional drilling, jack-and-boring, cured-in-place-pipe, and other methods. The sewer segments to be addressed under this program were identified through investigations (condition assessments) of the sewer lines and are prioritized based on their risk ranking relative to sewer's structural condition, and the likelihood and consequence of a sewer failure. The risk ranking is calculated utilizing the Grassy Sewer Asset Management System (GSAM).	Const	Approve - plans/specs/ cost est.	Necessity/ Proceed	Authorize - advertise and bid	\$ 6,210,000.00	X		Jan 2021	Dec 2021
10180222	NA	Manhole Renewal Program 2022	Throughout the MSD service area	This allowance addresses the repair, rehabilitation and replacement of structurally deteriorated manholes throughout the system. The work includes manhole repairs, rim adjustments, replacement, and chimney repairs to accommodate street paving and improvement projects. Manhole repairs, rehab and replacement projects are prioritized based on their risk ranking relative to structural condition and the likelihood and consequence of failure.	Const	Approve - plans/specs/ cost est.	Necessity/ Proceed	Authorize - advertise and bid	\$ 1,037,910.00	X		Jan 2021	Dec 2021
10281322	NA	Prioritized Wastewater Collection System Improvements 2022	Throughout the MSD service area	This allowance is intended to repair and renew failed end-of structurally deteriorated sewer segments by responding to sudden, unexpected system failures, completing planned repairs and improvements to high-risk utility-owned assets, to remedy structurally failed privately-owned active building sewers located within the right-of-way, and making prioritized system improvements through construction coordination of projects. Collectively, this operational strategy will assist in achieving and maintaining acceptable levels of service at the lowest life-cycle cost.	Const	Approve - plans/specs/ cost est.	Necessity/ Proceed	Authorize - advertise and bid	\$ 20,000,000.00	X		Jan 2021	Dec 2021
10280722	NA	Critical Asset Management Projects 2022	Throughout the MSD service area	This allowance provides capital resources to address a risk-based prioritized wastewater treatment expenditure that are critical to sustain operational, regulatory, and safety expected performance levels. Expenditures are identified, planned, prioritized, and executed within the allowance annual budget.	Const	Approve - plans/specs/ cost est.	Necessity/ Proceed	Authorize - advertise and bid	\$ 6,210,000.00	X		Jan 2021	Dec 2021
Total									\$ 33,457,910.00				

**FY 2021 MSD CIP Funding Request
Metropolitan Sewer District of Greater Cincinnati
Estimate of Construction
Detailed Project Estimated Cost (Exhibit B)**

ID#	CIP#	Project Name	Planning	Design	Pre-Construction Services	Miscellaneous Expense	Right Of Way	Construction	Contingency	Construction Services	Interest / Financing	Total
10180122	NA	Main Sewer Renewal Program 2022	\$ -	\$ -	\$ -	\$ -	\$ -	6,210,000.00	\$ -	\$ -	\$ -	6,210,000.00
10180722	NA	Manhole Renewal Program 2022	\$ -	\$ -	\$ -	\$ -	\$ -	934,410.00	\$ -	183,500.00	\$ -	1,037,910.00
10281322	NA	Prioritized Wastewater Collection System Improvements 2022	\$ -	\$ -	\$ -	\$ -	\$ -	16,666,667.00	\$ -	3,333,333.00	\$ -	20,000,000.00
10280722	NA	Critical Asset Management Projects 2022	\$ -	\$ -	\$ -	\$ -	\$ -	6,210,000.00	\$ -	\$ -	\$ -	6,210,000.00
Total											\$	33,457,910.00

Ryan Webb

Approved this _____ day of _____, 2021
Board of County Commissioners
Hamilton County, Ohio

Ryan Webb, P.E.
Deputy Director, MSD
Hamilton County Sanitary Engineer
(for the purposes of the Metropolitan Sewer District of Greater Cincinnati
as authorized in the Resolution of February 28, 2007, Comm. Minutes, Vol. 385, Images 4190-4191)
City of Cincinnati Department of Sewers

12-14-2021 Vol.ume 364 Image #09905

MSD RESOLUTION

AUTHORIZING THE PREPARATION OF DETAILED PLANS, SPECIFICATIONS,
ESTIMATES OF COST, AND/OR OTHER RELEVANT DOCUMENTS FOR THE
2022-2026 CAPITAL IMPROVEMENT PROGRAM OF

THE METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI

WHEREAS, the Board of County Commissioners of Hamilton County, Ohio (the "Board") did, by resolution adopted on a date even herewith, approve the 2022-2026 Capital Improvement Program ("CIP") for the Metropolitan Sewer District of Greater Cincinnati ("MSD"); and

WHEREAS, the Board wishes to proceed with the completion of detailed plans, specifications, estimates of cost, other relevant documents, right-of-way activities, administrative and other miscellaneous activities associated with and necessary to the projects contained in Exhibit A of the adopted Resolution Approving and Adopting the 2022-2026 MSD CIP ("Exhibit A"), located in the MSD; and

NOW, THEREFORE, BE IT RESOLVED by the Board of County Commissioners of Hamilton County, Ohio, that the Director of the Metropolitan Sewer District of Greater Cincinnati be and is hereby authorized and directed to complete preparation and submit forthwith, for consideration and approval of this Board, detailed plans, specifications, estimates of cost, and/or other relevant documents for the project contained in Exhibit A.

BE IT FURTHER RESOLVED, that this Board of County Commissioners hereby finds and determines that all formal actions relative to the adoption of this Resolution were taken in an open meeting of the Board of County Commissioners and that all deliberations of this Board of County Commissioners and of its committees, if any, which resulted in formal action were taken in meetings open to the public, in full compliance with applicable legal requirements, including Section 121.22 of the Ohio Revised Code.

ADOPTED at a regularly adjourned meeting of the Board of County Commissioners of Hamilton County, Ohio, this 14 day of December, 2021.

Ms. Summerow Dumas

YES

Ms. Reece

YES

Ms. Driehaus

YES

MSD RESOLUTION

APPROVING THE
GENERAL PLAN OF SEWERAGE OR DRAINAGE
AND/OR OTHER RELEVANT DOCUMENTS FOR THE
2022-2026 CAPITAL IMPROVEMENT PROGRAM, EXHIBIT B, FOR
THE METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI

WHEREAS, the Board of County Commissioners of Hamilton County, Ohio (the "Board") did, by resolution adopted on a date even herewith, approve the 2022-2026 Capital improvement Program ("CIP") for the Metropolitan Sewer District of Greater Cincinnati ("MSD"); and

WHEREAS, the general plan of sewerage or drainage, that is as complete as could be developed at the time and that was devised with regard to existing sanitary or drainage facilities or prevention or replacement facilities in the district, and/or other relevant documents for the projects contained in Exhibit B, as included in the adopted Resolution Approving and Adopting the 2022-2026 MSD CIP ("2022-2026 MSD CIP Exhibit B"), have been presented to this Board by the Hamilton County Sanitary Engineer pursuant to the Board's February 28, 2007 Resolution, Comm. Minutes, Vol. 305, Images 4190-4191, with his recommendation for approval by this Board; and

WHEREAS, said projects contained in the 2022-2026 MSD CIP Exhibit B are for the purpose of acquiring, constructing, and improving capital assets to be used in the operation and maintenance of the MSD, as operated under Chapter 6117 of the Ohio Revised Code ("R.C.") and in compliance with R.C. Section 133.01(Z).

NOW, THEREFORE, BE IT RESOLVED by the Board of County Commissioners of Hamilton County, Ohio, that the aforesaid general plan of sewerage or drainage, that is as complete as could be developed at the time and that was devised with regard to existing sanitary or drainage facilities or prevention or replacement facilities in the district, and/or other relevant documents for the sanitary sewer projects contained in the 2022-2026 MSD CIP Exhibit B be and are hereby approved.

BE IT FURTHER RESOLVED, that this Board of County Commissioners hereby finds and determines that all formal actions relative to the adoption of this Resolution were taken in an open meeting of the Board of County Commissioners and that all deliberations of this Board of County Commissioners and of its committees, if any, which resulted in formal action were taken in meetings open to the public, in full compliance with applicable legal requirements, including Section 121.22 of the Ohio Revised Code.

ADOPTED at a regularly adjourned meeting of the Board of County Commissioners of Hamilton County, Ohio, this 14 day of December, 2021.

Ms. Summerow Dumas YES

Ms. Reece YES

Ms. Driehaus YES

MSD RESOLUTION

**DECLARING THE NECESSITY TO CONSTRUCT
SEWER PROJECTS IDENTIFIED IN THE
2022-2026 CAPITAL IMPROVEMENT PROGRAM EXHIBIT B
FOR
THE METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI
HAMILTON COUNTY, OHIO**

AND DETERMINING TO PROCEED WITH IMPROVEMENTS

WHEREAS, the Board of County Commissioners of Hamilton County, Ohio (the "Board") has heretofore approved a General Plan for the construction, maintenance, and operation of a sanitary sewer system in the Metropolitan Sewer District of Greater Cincinnati, Hamilton County, Ohio ("MSD"); and

WHEREAS, the Board did approve, on a date even herewith, a general plan of sewerage or drainage, that is as complete as could be developed at the time, and that is devised with regard to any existing sanitary or drainage facilities or prevention or replacement facilities in the district, and/or other relevant documents for the sanitary sewer projects as contained in Exhibit B of the adopted Resolution Approving and Adopting the 2022-2026 MSD CIP ("2022-2026 MSD CIP Exhibit B"), incorporated herein by reference; and

WHEREAS, said projects contained in the 2022-2026 MSD CIP Exhibit B are for the purpose of acquiring, constructing, and improving capital assets to be used in the operation and maintenance of the MSD, as operated under Chapter 6117 of the Ohio Revised Code ("R.C.") and in compliance with R.C. Section 133.01(2).

NOW, THEREFORE, BE IT RESOLVED by the Board of County Commissioners of Hamilton County, Ohio:

SECTION 1. That it is hereby declared necessary for the preservation and promotion of the public health and welfare to proceed with the construction of the sanitary sewer projects contained in the 2022-2026 MSD CIP Exhibit B.

SECTION 2. That the construction of the projects contained in the 2022-2026 MSD CIP Exhibit B, together with the necessary appurtenances thereto, shall be in accordance with the General Plan of sewerage of the MSD.

SECTION 3. The total estimated costs of construction, including engineering and incidental expenses, are contained in the 2022-2026 MSD CIP Exhibit B.

SECTION 4. That to provide a means to pay for the said improvements contained in the 2022-2026 MSD CIP Exhibit B, bonds and certificates of indebtedness in anticipation thereof may be issued in accordance with Chapters 6117 and 133 of the Ohio Revised Code, and will be retired utilizing unencumbered sewerage service charge revenues of MSD. No part of the cost the said improvements shall be assessed against the benefitted properties.

SECTION 5. The projects contained in the 2022-2026 MSD CIP Exhibit B, together with the necessary appurtenances thereto, shall be located as more fully described under the "EXPLANATION/DESCRIPTION"

and the "LOCATION" columns for each project in said exhibit, and constructed of the materials set forth in the approved detailed plans, specifications, and/or other relevant documents.

BE IT FURTHER RESOLVED, that the projects contained in the 2022-2026 MSD CIP Exhibit B, be and are hereby ordered to be constructed in accordance with the detailed plans, specifications, and/or other relevant documents heretofore adopted and approved by this Board, which hereby ratifies the same.

BE IT FURTHER RESOLVED, that this Board of County Commissioners hereby finds and determines that all formal actions relative to the adoption of this Resolution were taken in an open meeting of the Board of County Commissioners, and that all deliberations of this Board of County Commissioners and of its committees, if any, which resulted in formal action were taken in meetings open to the public, in full compliance with applicable legal requirements, including Section 121.22 of the Ohio Revised Code.

ADOPTED at a regularly adjourned meeting of the Board of County Commissioners of Hamilton County, Ohio, this 14 day of December, 2021.

Ms. Summerow Dumas YES

Ms. Reece YES

Ms. Driehaus YES

MSD RESOLUTION

AUTHORIZING THE CITY MANAGER
TO ADVERTISE FOR BIDS

WHEREAS, on a date even herewith this Board of County Commissioners of Hamilton County, Ohio (the "Board") determined to proceed with the construction of the projects contained in Exhibit B of the adopted Resolution Approving and Adopting the 2022-2026 Capital Improvement Programs for the Metropolitan Sewer District of Greater Cincinnati ("2022-2026 MSD CIP Exhibit B"), incorporated herein by reference, in accordance with the detailed plans, specifications, estimates of cost, and/or other relevant documents, as heretofore approved and ratified; and

WHEREAS, the projects contained in the 2022-2026 MSD CIP Exhibit B are for the purpose of acquiring, constructing, and improving capital assets to be used in the operation and maintenance of the Metropolitan Sewer District of Greater Cincinnati, as operated under Chapter 6117 of the Ohio Revised Code ("R.C.") and in compliance with R.C. Section 133.01(Z); and

WHEREAS, it is deemed advisable to proceed at once with the next legislative step required by law, which is the offering of contracts for the construction of said projects for competitive bidding.

NOW, THEREFORE, BE IT RESOLVED by the Board of County Commissioners of Hamilton County, Ohio, that the City Manager of Cincinnati, Ohio is hereby authorized to proceed, at the earliest possible time and in accordance with the pertinent competitive procedures and requirements, to advertise the contracts for the construction of the projects contained in the 2022-2026 MSD CIP Exhibit B.

BE IT FURTHER RESOLVED, that this Board of County Commissioners hereby finds and determines that all formal actions relative to the adoption of this Resolution were taken in an open meeting of the Board of County Commissioners and that all deliberations of this Board of County Commissioners and of its committees, if any, which resulted in formal action were taken in meetings open to the public, in full compliance with applicable legal requirements, including Section 121.22 of the Ohio Revised Code.

ADOPTED at a regularly adjourned meeting of the Board of County Commissioners of Hamilton County, Ohio, this 14th day of December, 2021.

Ms. Summerow Dumas YES

Ms. Reece YES

Ms. Driehaus YES

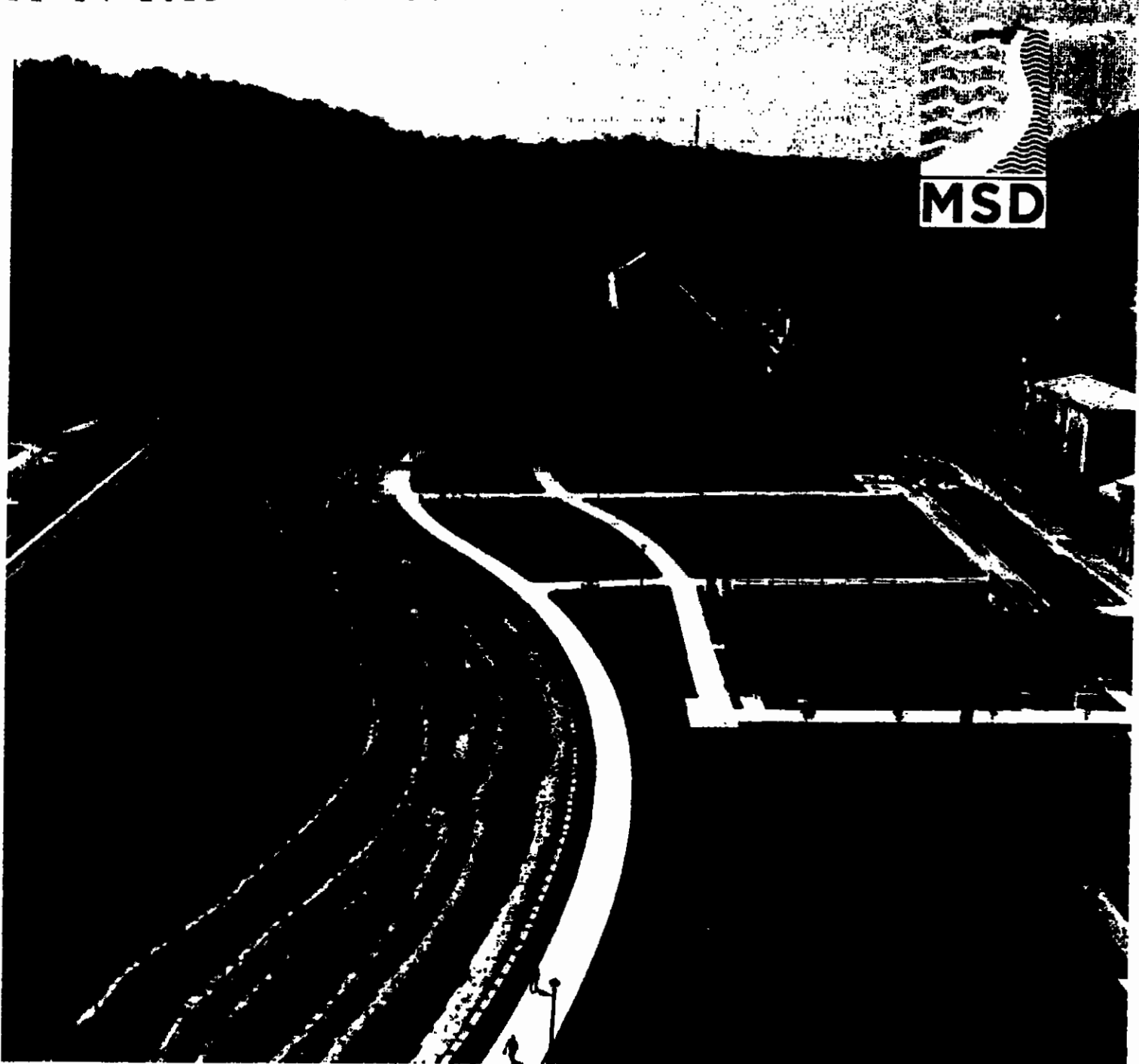
CERTIFICATE OF CLERK

IT IS HEREBY CERTIFIED that the foregoing is a true and correct transcript of resolutions adopted by the Board of County Commissioners in session this 14 day of December, 2021.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the Official Seal of the Office of the Board of County Commissioners of Hamilton County, Ohio this 14 day of December, 2021.



Leslie Hervey, Interim Clerk
Board of County Commissioners
Hamilton County, Ohio



2022-2026

METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI

CAPITAL IMPROVEMENT PROGRAM (CIP)

BUDGET REQUEST

December 10, 2021



This edition of the 2022-2026 CIP budget proposal has been modified from the November 18th version at the request of the Board of County Commissioners to remove CIP project-type classifications. In addition, the CSO 005 Water Connection project (\$189,000) has been removed from this version because it is expected to be legislated in 2021.

**Metropolitan Sewer District of Greater Cincinnati
Capital Budget and Capital Improvement Program
Year 2022**

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Glossary of Terms

<u>Abbreviation</u>	<u>Description</u>
ALW	Allowance
BOCC	Board of County Commissioners, Hamilton County, OH
CDOTE	Cincinnati Department of Transportation & Engineering
CEHRT	Chemically Enhanced High Rate Treatment
CIP	Capital Improvement Program
CON	Contingency
CSO	Combined Sewer Overflow; discharge from a combined sewer collection system.
EPA	Environmental Protection Agency
FAC	Treatment Facility
HNS	Home Numbers
HSTS	Home Sewage Treatment System
HW/DW	High Water, Dry Weather, refers to a specific type of CSO, the condition that occurs when the interceptor sewer floods from area rivers or creeks back-flowing into a CSO structure, resulting in extraneous waters that cause a combined discharge further down the collection system
ITS	IT System
LMCPR	Lower Mill Creek Partial Remedy
MGD	Million Gallons per Day
MSD	Metropolitan Sewer District
N/A	Not Applicable
NPDES	National Pollution Discharge Elimination System; permitting authority overseen by USEPA
O&M	Operations and Maintenance
OEPA	Ohio Environmental Protection Agency
ORC	Ohio Revised Code
PS	Pump Station
PSO	Pump Station Overflow
SBU	Sewer Back Up (aka WTB Water-In-Basement)
SCADA	Supervisory Control and Data Acquisition
SRC	Source Control
SSO	Sanitary Sewer Overflow; discharge from a separate sanitary sewer
STY	Study
SWR	Sewer
WWC	Wastewater Collection Division of MSD
WWIP	Wet Weather Improvement Program
WWT	Wastewater Treatment Division of MSD
WWTP,	Wastewater Treatment Plant

ANNUAL CIP LEGISLATION ASSUMPTIONS

The development of this CIP was based on several key assumptions that are defined below:

Escalation, Inflation, and Labor Inflation

Per MSD's Project Costing Manual

Planning / Study

The cost for planning or study, during any stage of the planning phase. May be performed by MSD personnel and or by consultant contract.

Design

The cost for detailed design during the design phase. May be performed by MSD personnel and or by consultant contract.

Pre Construction Services

Prior to 2020, this included the cost of MSD personnel performing support functions during the planning and design phases. These costs are now captured in an Allowance for MSD Labor.

Miscellaneous Expense

The cost of all permit fees paid directly by MSD during the design phase. These costs include, but are not limited to, PTI, street opening permit, building permits, 401 permits. In addition, costs may include utility relocations and demolition if not handled during construction.

Right of Way

The cost of easement acquisition by MSD personnel, professional services for appraisal and title opinions, appropriation costs, court costs, and compensation paid to property owners for easements during the design phase.

Construction

The bid cost to construct the project as estimated by the engineer, including startup and commissioning costs if required for project.

Construction Services

The cost for construction phase professional services, as needed, including construction management, construction inspection, field engineering and other related costs.

Interest/Financing

The cost of interest charged prior to the asset being placed in service. This is only applied to projects that have a prospective borrowing, such as projects financed through OPEA low interest loan program. Most 2022 CIP Projects will proceed with bond financing, so the value is shown as \$0.

MSD Labor

The cost for MSD project planning, design and delivery related activities, including project management, construction management, construction inspection, field engineering, and other project-related personnel costs.

2022 - 2026 CIP

The schedule for the Phase 2 WWIP remains under development by the City and County in preparation for anticipated Regulatory discussions. Individual projects to be advanced are subject to change pending on-going engineering or affordability considerations.

Due to the evolving nature of these evaluations and their direct impact on future regulatory compliance, the Projects associated with the future Phase 2 WWIP have not been included in this CIP.

Legislated Costs

Legislated costs include costs that have been previously legislated and legislation anticipated to be approved during 2022. Due to this assumption, it may be the case that some legislated costs may not have been approved at the time of drafting this document.

Cost Estimates

Project costs have been estimated and based on industry best practice and AACE International guidelines. In general, most P D E projects are considered as a Class 5 estimates based on the maturity of the scope development and have an expected accuracy range of -50% to +100%. Construction projects are based on an Engineer's Opinion of Probable Costs (OPCC) and will be reflective of the estimate class at the time of the budget update.

Project Schedules

Project schedules are established based on the use of a standard template developed for the type and size of the project. The schedules are then refined to address project specific issues or complexities, such as alternative delivery method, hydraulic physical modeling, or extensive ROW acquisition requirements. In general, the schedule templates for conveyance projects account for a typical ROW activity and duration. This is not included in most facility projects. All schedules are created and maintained in Primavera P6 and updated on a regular basis to reflect the current forecasted completion of the remaining milestones.

HRT Project Schedules

All HRT projects included herein are subject to change based on ongoing regulatory discussions related to Phase 2A of the WWIP. The schedules will be adjusted prior to finalization of the CIP.



2022 CIP Projects

Metropolitan Sewer District of Greater Cincinnati

Planning/Design/Easement Funding Request (Exhibit A)

Project ID	Project Type	Project Name	P/D/E Funds Requested
10144888	FAC	MCWWTP High Rate Treatment Pump Station (Design)	\$14,000,000
10172095	SWR	CSO 182 Strategic Sewer Separation (Planning)	\$304,200
10172900	FAC	LMWWTP Standby Power (Design)	\$100,000
10190222	ALW	Phase 2 WWIP Planning 2022 (Planning)	\$2,587,500
10240426	PS	Pleasant Run Pump Station Upgrades (Design,Easement)	\$1,421,914
10281100	FAC	LMWWTP Solids Disposal With Odor Control (Design)	\$5,750,000
10199022	ALW	Program Management and Support Services 2022 (Design)	\$6,970,000
10199122	ALW	Hamilton County Utility Oversight and Coordination 2022 (Design)	\$4,554,000
13090000	CON	Programmatic Contingency (Design)	\$5,000,000
13099999	ALW	MSD LABOR (Design)	\$5,500,000
10222005	PS	Colcrain-Bevis Pump Station Replacement (Planning)	\$310,000
10222015	PS	Stratford Lake Pump Station Elimination (Design)	\$20,000
10230170	SWR	Harrison Avenue North and South Hydraulic Improvements (Planning)	\$290,000
10232005	SWR	Benz Avenue (HN 1111) Sewer Replacement (Planning)	\$90,000
10232030	PS	Rapid Run and Foley Road PS Receiver Manhole Installation (Planning,Design,Easement)	\$244,400
10232035	SWR	CSO 541 Outfall Replacement (Planning)	\$209,600
10240445	SWR	Colton Lane Sewer Replacement (Design,Easement)	\$40,000
10240720	SWR	Valleyview Court Sewer Replacement (Design,Easement)	\$333,000
10240725	SWR	Shaffer Avenue Sewer Replacement (Design,Easement)	\$311,500
10240735	SWR	Dc Votie Avenue Sewer Replacement (Design,Easement)	\$350,000
10240740	SWR	Tennessee Avenue (HN 1754) Sewer Replacement (Design,Easement)	\$350,000
10240780	SWR	Galbraith Rd to Sheldon Avenue Sewer Replacement (Design,Easement)	\$446,500
10240810	SWR	Overlook Avenue near Glenway Ave Sewer Replacement (Design,Easement)	\$354,000
10242030	SWR	Dorchester Avenue at Highland Avenue Sewer Replacement (Design,Easement)	\$216,660
10242055	SWR	Queen City Avenue (HN 2047) Sewer Rehabilitation (Planning)	\$80,000
10242080	SWR	Fenton Avenue (HN 1336) Sewer Relocation (Planning)	\$110,000
10242085	PS	Village Woods Pump Station and System Improvements (Design)	\$34,000
10242090	SWR	Donna Lane & Ester Marie Drive Sewer Relocation and Rehab (Planning)	\$86,000
10242100	STY	Blair Avenue to Rockdale Avenue Sewer Study (Planning)	\$850,000
10242105	SWR	Loth Street (HN 2272) Sewer Relocation and Rehab (Planning)	\$160,000
10242110	SWR	Central Avenue and W 9th Street Sewer (Planning)	\$130,000
10242115	SWR	Central Avenue (HN 1964) Sewer (Planning)	\$105,000
10242150	FAC	Daly Road Treatment Facility Modifications (Design)	\$120,300
10242160	PS	Glen Landing Pump Station Force Main Replacement (Design)	\$18,500
10242165	FAC	MCWWTP Disinfection and Outfall (Planning)	\$1,113,900
10242170	SWR	CSX Railyard Assessment (Planning)	\$630,000
10242175	FAC	Mill Creek Power Building Decommissioning (Planning)	\$405,200
10272070	SWR	Summerview Low Pressure Forcemain (Design)	\$82,800



2022 CIP Projects

Metropolitan Sewer District of Greater Cincinnati

Planning/Design/Easement Funding Request (Exhibit A)

Project ID	Project Type	Project Name	P/D/E Funds Requested
10272075	SWR	Wayside Avenue and Colter Avenue Sewer Improvements (Planning)	\$122,100
10272080	SWR	Madison Rd and Edwards Rd Sewer Improvements (Planning)	\$196,900
10280242	ALW	Hydraulic Modeling 2022 (Planning)	\$1,242,000
10282022	ALW	CIP Planning Projects 2022 (Planning)	\$2,173,500
10282422	ALW	Flow Monitoring 2022 (Planning)	\$960,000
43 Planning/Design/Easement Projects in 2022			\$ 58,373,474

FY 2022 MSD CIP Funding Request
Metropolitan Sewer District of Greater Cincinnati
Estimate of Construction
Detailed Project Estimated Cost (Exhibit B)

ID#	CIP#	Project Name	Location	Explanation/Description	Legislation Type	Resolution 1	Resolution 2	Resolution 3	Current Request	W/W/P	AM	Proj Start	Proj End
10180122	NA	Main Sewer Renewal Program 2022	Throughout the MSD service area	This allowance addresses the renewal, repair, and rehabilitation of existing main sewers throughout MSD's service area using trenchless technologies. The program focuses on structurally deteriorated main sewers to improve the hydraulic performance of the sewer. Building sewers are excluded. Trenchless technologies have many benefits such as: shorter duration, durable, safer, and cost effective. This program's scope will include, but not limit itself to, slip-lining, point lining, spiral wound lining, pipe bursting, carbon filament wrapping, directional drilling, jack-and-bore, cured-in-place-pipe, and other methods. The sewer segments to be addressed under this program were identified through investigations (condition assessments) of the sewer lines and are prioritized based on their risk ranking relative to sewer's structural condition, and the likelihood and consequence of a sewer failure. The risk ranking is calculated utilizing the Gravity Sewer Asset Management System (GSAM).	Const	Approve - plans/ specs/ cost est.	Necessity/ Proceed	Authorize - advertise and bid	\$ 6,210,000.00	X		Jan 2021	Dec 2021
10180222	NA	Manhole Renewal Program 2022	Throughout the MSD service area	This allowance addresses the repair, rehabilitation and replacement of structurally deteriorated manholes throughout the system. The work includes manhole repairs, rim adjustments, replacement, and chimney repairs to accommodate street paving and improvement projects. Manhole repairs, rehab and replacement projects are prioritized based on their risk ranking relative to structural condition and the likelihood and consequence of failure.	Const	Approve - plans/ specs/ cost est.	Necessity/ Proceed	Authorize - advertise and bid	\$ 1,037,910.00	X		Jan 2021	Dec 2021
10281322	NA	Prioritized Wastewater Collection System Improvements 2022	Throughout the MSD service area	This allowance is intended to repair and renew failed and/or structurally deteriorated sewer segments by responding to sudden, unexpected system failures, completing planned repairs and improvements to high-risk utility-owned assets, to remedy structurally failed private-owned septic building sewers located within the right-of-way, and making prioritized system improvements through construction coordination of projects. Collectively, this operational strategy will assist in achieving and maintaining acceptable levels of service at the lowest life-cycle cost.	Const	Approve - plans/ specs/ cost est.	Necessity/ Proceed	Authorize - advertise and bid	\$ 20,000,000.00	X		Jan 2021	Dec 2021
10280722	NA	Critical Asset Management Projects 2022	Throughout the MSD service area	This allowance provides capital resources to address a risk-based prioritized wastewater treatment expenditure that are critical to sustain operational, regulatory, and safety expected performance levels. Expenditures are identified, planned, prioritized, and executed within the allowance annual budget.	Const	Approve - plans/ specs/ cost est.	Necessity/ Proceed	Authorize - advertise and bid	\$ 6,210,000.00	X		Jan 2021	Dec 2021
Total									\$ 33,457,910.00				

12-14-2021 Vol. 1, Page 364 Image #09919

**FY 2022 MSD CIP Funding Request
Metropolitan Sewer District of Greater Cincinnati
Estimate of Construction
Detailed Project Estimated Cost (Exhibit B)**

IDS	CIP#	Project Name	Planning	Design	Pre-Construction Services	Miscellaneous Expense	Right Of Way	Construction	Contingency	Construction Services	Interest / Financing	Total
10180122	NA	Main Sewer Renewal Program 2022	\$ -	\$ -	\$ -	\$ -	\$ -	6,210,000.00	\$ -	\$ -	\$ -	6,210,000.00
10180222	NA	Manhole Renewal Program 2022	\$ -	\$ -	\$ -	\$ -	\$ -	994,410.00	\$ -	101,500.00	\$ -	1,097,910.00
10281322	NA	Prioritized Wastewater Collection System Improvements 2022	\$ -	\$ -	\$ -	\$ -	\$ -	16,666,667.00	\$ -	3,333,333.00	\$ -	20,000,000.00
10280722	NA	Critical Asset Management Projects 2022	\$ -	\$ -	\$ -	\$ -	\$ -	6,210,000.00	\$ -	\$ -	\$ -	6,210,000.00
Total											\$	33,457,910.00

Approved this _____ day of _____, 2021
Board of County Commissioners
Hamilton County, Ohio

Ryan Webb

Ryan Webb, P.E.
Deputy Director, MSD
Hamilton County Sanitary Engineer
(for the purposes of the Metropolitan Sewer District of Greater Cincinnati
as authorized in the Resolution of February 28, 2007, Comm. Minutes, Vol 305, Images 4190-4191)
City of Cincinnati Department of Sewers



2022 CIP Projects

Metropolitan Sewer District of Greater Cincinnati

Project ID	Project Type	Project Name	2022 Total Requested	Total Project Cost
10144888	FAC	MCWWTP High Rate Treatment Pump Station (Design)	\$14,000,000	\$135,500,000
10172095	SWR	CSO 182 Strategic Sewer Separation (Planning)	\$304,200	\$6,664,123
10172900	FAC	LMWWTP Standby Power (Design,Construction)	\$23,846,000	\$25,079,300
10180122	ALW	Main Sewer Renewal Program 2022 (Construction)	\$6,210,000	\$6,210,000
10180222	ALW	Manhole Renewal Program 2022 (Construction)	\$1,037,910	\$1,037,910
10190222	ALW	Phase 2 WWIP Planning 2022 (Planning)	\$2,587,500	\$2,587,500
10240426	PS	Pleasant Run Pump Station Upgrades (Design,Easement)	\$1,421,914	\$42,150,239
10281100	FAC	LMWWTP Solids Disposal With Odor Control (Design)	\$5,750,000	\$166,643,125
11142741	SWR	CSO 488 490 I-75 Reconstruction Coordination (Construction)	\$940,000	\$1,074,000
10199022	ALW	Program Management and Support Services 2022 (Design)	\$6,970,000	\$6,970,000
10199122	ALW	Hamilton County Utility Oversight and Coordination 2022 (Design)	\$4,554,000	\$4,554,000
13090000	CON	Programmatic Contingency (Design)	\$5,000,000	\$36,746,147
13099999	ALW	MSD LABOR (Design)	\$5,500,000	\$38,000,000
10222005	PS	Colerain-Bevis Pump Station Replacement (Planning)	\$310,000	\$6,995,000
10222015	PS	Stratford Lake Pump Station Elimination (Design,Construction)	\$170,000	\$246,733
10230041	PS	Westport Village PS Elimination (Construction)	\$1,479,000	\$1,852,962
10230170	SWR	Harrison Avenue North and South Hydraulic Improvements (Planning)	\$290,000	\$5,925,000
10232005	SWR	Benz Avenue (HN 1111) Sewer Replacement (Planning)	\$90,000	\$371,000
10232030	PS	Rapid Run and Foley Road PS Receiver Manhole Installation (Planning,Design,Easement)	\$244,400	\$519,300
10232035	SWR	CSO 541 Outfall Replacement (Planning)	\$209,600	\$1,406,500
10240445	SWR	Colton Lane Sewer Replacement (Design,Easement)	\$40,000	\$396,844



2022 CIP Projects

Metropolitan Sewer District of Greater Cincinnati

Project ID	Project Type	Project Name	2022 Total Requested	Total Project Cost
10240625	FAC	MCWWTP Standby Power Distribution System Improvements (Construction)	\$6,180,000	\$6,734,917
10240645	FAC	Mill Creek WWC Maintenance Shop Improvements (Construction)	\$1,968,529	\$3,639,477
10240697	FAC	Mill Creek 4.16 kV & 13.2 kV Loop Improvements (Construction)	\$5,899,000	\$6,263,268
10240720	SWR	Valleyview Court Sewer Replacement (Design,Easement)	\$333,000	\$1,347,200
10240725	SWR	Shaffer Avenue Sewer Replacement (Design,Easement)	\$311,500	\$1,421,700
10240735	SWR	De Votie Avenue Sewer Replacement (Design,Easement)	\$350,000	\$1,922,000
10240740	SWR	Tennessee Avenue (HN 1754) Sewer Replacement (Design,Easement)	\$350,000	\$670,000
10240780	SWR	Galbraith Rd to Sheldon Avenue Sewer Replacement (Design,Easement)	\$446,500	\$1,080,200
10240810	SWR	Overlook Avenue near Glenway Ave Sewer Replacement (Design,Easement)	\$354,000	\$1,447,000
10242030	SWR	Dorchester Avenue at Highland Avenue Sewer Replacement (Design,Easement)	\$216,660	\$822,660
10242055	SWR	Queen City Avenue (HN 2047) Sewer Rehabilitation (Planning)	\$80,000	\$596,000
10242080	SWR	Fenton Avenue (HN 1336) Sewer Relocation (Planning)	\$110,000	\$1,765,000
10242085	PS	Village Woods Pump Station and System Improvements (Design)	\$34,000	\$724,000
10242090	SWR	Donna Lane & Ester Marie Drive Sewer Relocation and Rehab (Planning)	\$86,000	\$993,000
10242100	STY	Blair Avenue to Rockdale Avenue Sewer Study (Planning)	\$850,000	\$850,000
10242105	SWR	Loth Street (HN 2272) Sewer Relocation and Rehab (Planning)	\$160,000	\$2,592,000
10242110	SWR	Central Avenue and W 9th Street Sewer (Planning)	\$130,000	\$1,935,000
10242115	SWR	Central Avenue (HN 1964) Sewer (Planning)	\$105,000	\$503,500
10242150	FAC	Daly Road Treatment Facility Modifications (Design)	\$120,300	\$701,933



2022 CIP Projects

Metropolitan Sewer District of Greater Cincinnati

Project ID	Project Type	Project Name	2022 Total Requested	Total Project Cost
10242160	PS	Glen Landing Pump Station Force Main Replacement (Design, Construction)	\$283,500	\$283,500
10242165	FAC	MCWWTP Disinfection and Outfall (Planning)	\$1,113,900	\$1,113,900
10242170	SWR	CSX Railyard Assessment (Planning)	\$630,000	\$630,000
10242175	FAC	Mill Creek Power Building Decommissioning (Planning)	\$405,200	\$10,888,700
10262005	FAC	SCWWTP Thickening and Settlement Improvements (Construction)	\$3,012,000	\$3,626,736
10270185	SWR	Paxton Ave at Linwood Ave Sewer Replacement (Construction)	\$482,000	\$611,100
10270220	SWR	Tusculum Avenue at Woodbridge Sewer Replacement (Construction)	\$145,500	\$346,400
10272070	SWR	Summerview Low Pressure Forcemain (Design)	\$82,800	\$467,635
10272075	SWR	Wayside Avenue and Colter Avenue Sewer Improvements (Planning)	\$122,100	\$1,816,500
10272080	SWR	Madison Rd and Edwards Rd Sewer Improvements (Planning)	\$196,900	\$3,375,325
10280242	ALW	Hydraulic Modeling 2022 (Planning)	\$1,242,000	\$1,242,000
10280722	ALW	Critical Asset Management Projects 2022 (Construction)	\$6,210,000	\$6,210,000
10281322	ALW	Prioritized Wastewater Collection System Improvements 2022 (Construction)	\$20,000,000	\$20,000,000
10282022	ALW	CIP Planning Projects 2022 (Planning)	\$2,173,500	\$2,173,500
10282422	ALW	Flow Monitoring 2022 (Planning)	\$960,000	\$960,000
55 CIP Projects for 2022			\$136,098,413	\$580,683,834



2022 Projects
Metropolitan Sewer District of Greater Cincinnati
CIP Projects

Project ID	Project Type	Project Name	MSD	Other	Total	Page
10144888	FAC	MCWWTP High Rate Treatment Pump Station (Design)	\$14,000,000	\$0	\$14,000,000	15
10172095	SWR	CSO 182 Strategic Sewer Separation (Planning)	\$304,200	\$0	\$304,200	16
10172900	FAC	LMWWTP Standby Power (Design,Construction)	\$23,846,000	\$0	\$23,846,000	17
10180122	ALW	Main Sewer Renewal Program 2022 (Construction)	\$6,210,000	\$0	\$6,210,000	18
10180222	ALW	Manhole Renewal Program 2022 (Construction)	\$1,037,910	\$0	\$1,037,910	19
10190222	ALW	Phase 2 WWTP Planning 2022 (Planning)	\$2,587,500	\$0	\$2,587,500	20
10240426	PS	Pleasant Run Pump Station Upgrades (Design,Easement)	\$1,421,914	\$0	\$1,421,914	21
10281100	FAC	LMWWTP Solids Disposal With Odor Control (Design)	\$5,750,000	\$0	\$5,750,000	22
11142741	SWR	CSO 488 490 I-75 Reconstruction Coordination (Construction)	\$940,000	\$0	\$940,000	23
10199022	ALW	Program Management and Support Services 2022 (Design)	\$6,970,000	\$0	\$6,970,000	24
10199122	ALW	Hamilton County Utility Oversight and Coordination 2022 (Design)	\$4,554,000	\$0	\$4,554,000	25
13090000	CON	Programmatic Contingency (Design)	\$5,000,000	\$0	\$5,000,000	26
13099999	ALW	MSD LABOR (Design)	\$5,500,000	\$0	\$5,500,000	27
10222005	PS	Colerain-Beverly Pump Station Replacement (Planning)	\$310,000	\$0	\$310,000	28
10222015	PS	Stratford Lake Pump Station Elimination (Design,Construction)	\$170,000	\$0	\$170,000	29
10230041	PS	Westport Village PS Elimination (Construction)	\$1,479,000	\$0	\$1,479,000	30
10230170	SWR	Harrison Avenue North and South Hydraulic Improvements (Planning)	\$290,000	\$0	\$290,000	31
10232005	SWR	Benz Avenue (HN 1111) Sewer Replacement (Planning)	\$90,000	\$0	\$90,000	32
10232030	PS	Rapid Run and Foley Road PS Receiver Manhole Installation (Planning,Design,Easement)	\$244,400	\$0	\$244,400	33
10232035	SWR	CSO 541 Outfall Replacement (Planning)	\$209,600	\$0	\$209,600	34
10240445	SWR	Colton Lane Sewer Replacement (Design,Easement)	\$40,000	\$0	\$40,000	35



2022 Projects

Metropolitan Sewer District of Greater Cincinnati

CIP Projects

Project ID	Project Type	Project Name	MSD	Other	Total	Page
10240625	FAC	MCWWTP Standby Power Distribution System Improvements (Construction)	\$6,180,000	\$0	\$6,180,000	36
10240645	FAC	Mill Creek WWC Maintenance Shop Improvements (Construction)	\$1,968,529	\$0	\$1,968,529	37
10240697	FAC	Mill Creek 4.16 kV & 13.2 kV Loop Improvements (Construction)	\$5,899,000	\$0	\$5,899,000	38
10240720	SWR	Valleyview Court Sewer Replacement (Design,Easement)	\$333,000	\$0	\$333,000	39
10240725	SWR	Shaffer Avenue Sewer Replacement (Design,Easement)	\$311,500	\$0	\$311,500	40
10240735	SWR	De Votie Avenue Sewer Replacement (Design,Easement)	\$350,000	\$0	\$350,000	41
10240740	SWR	Tennessee Avenue (HN 1754) Sewer Replacement (Design,Easement)	\$350,000	\$0	\$350,000	42
10240780	SWR	Galbraith Rd to Sheldon Avenue Sewer Replacement (Design,Easement)	\$446,500	\$0	\$446,500	43
10240810	SWR	Overlook Avenue near Glenway Ave Sewer Replacement (Design,Easement)	\$354,000	\$0	\$354,000	44
10242030	SWR	Dorchester Avenue at Highland Avenue Sewer Replacement (Design,Easement)	\$216,660	\$0	\$216,660	45
10242055	SWR	Queen City Avenue (HN 2047) Sewer Rehabilitation (Planning)	\$80,000	\$0	\$80,000	46
10242080	SWR	Fenton Avenue (HN 1336) Sewer Relocation (Planning)	\$110,000	\$0	\$110,000	47
10242085	PS	Village Woods Pump Station and System Improvements (Design)	\$34,000	\$0	\$34,000	48
10242090	SWR	Donna Lane & Ester Marie Drive Sewer Relocation and Rehab (Planning)	\$86,000	\$0	\$86,000	49
10242100	STY	Blair Avenue to Rockdale Avenue Sewer Study (Planning)	\$850,000	\$0	\$850,000	50
10242105	SWR	Loth Street (HN 2272) Sewer Relocation and Rehab (Planning)	\$160,000	\$0	\$160,000	51
10242110	SWR	Central Avenue and W 9th Street Sewer (Planning)	\$130,000	\$0	\$130,000	52
10242115	SWR	Central Avenue (HN 1964) Sewer (Planning)	\$105,000	\$0	\$105,000	53
10242150	FAC	Daly Road Treatment Facility Modifications (Design)	\$120,300	\$0	\$120,300	54



2022 Projects

Metropolitan Sewer District of Greater Cincinnati

CIP Projects

Project ID	Project Type	Project Name	MSD	Other	Total	Page
10242160	PS	Glen Landing Pump Station Force Main Replacement (Design, Construction)	\$283,500	\$0	\$283,500	55
10242165	FAC	MCWWTP Disinfection and Outfall (Planning)	\$1,113,900	\$0	\$1,113,900	56
10242170	SWR	CSX Railyard Assessment (Planning)	\$630,000	\$0	\$630,000	57
10242175	FAC	Mill Creek Power Building Decommissioning (Planning)	\$405,200	\$0	\$405,200	58
10262005	FAC	SCWWTP Thickening and Settlement Improvements (Construction)	\$3,012,000	\$0	\$3,012,000	59
10270185	SWR	Paxton Ave at Linwood Ave Sewer Replacement (Construction)	\$482,000	\$0	\$482,000	60
10270220	SWR	Tusculum Avenue at Woodbridge Sewer Replacement (Construction)	\$145,500	\$0	\$145,500	61
10272070	SWR	Summerview Low Pressure Forcemain (Design)	\$82,800	\$0	\$82,800	62
10272075	SWR	Wayside Avenue and Colter Avenue Sewer Improvements (Planning)	\$122,100	\$0	\$122,100	63
10272080	SWR	Madison Rd and Edwards Rd Sewer Improvements (Planning)	\$196,900	\$0	\$196,900	64
10280242	ALW	Hydraulic Modeling 2022 (Planning)	\$1,242,000	\$0	\$1,242,000	65
10280722	ALW	Critical Asset Management Projects 2022 (Construction)	\$6,210,000	\$0	\$6,210,000	66
10281322	ALW	Prioritized Wastewater Collection System Improvements 2022 (Construction)	\$20,000,000	\$0	\$20,000,000	67
10282022	ALW	CIP Planning Projects 2022 (Planning)	\$2,173,500	\$0	\$2,173,500	68
10282422	ALW	Flow Monitoring 2022 (Planning)	\$960,000	\$0	\$960,000	69
Total Cost for 55 CIP Projects			\$136,098,413	\$0	\$136,098,413	

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI	MCWWTP High Rate Treatment Pump Station	2022 Capital Budget and Capital Improvement Program
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Project Overview		Modeling Overview
Project ID: 10144888 Project Type: Treatment Facility WWTP Basin: Mill Creek Watershed: Central Municipality: City of Cincinnati Neighborhood: Lower Price Hill	WWIP Index #: 248 Project Category: Sanitary Sewer No: 6793	Model Requires Update for Project: No Additional Flow Monitoring Required: No Comment:

Benefited CSO(s), SSO(s), PSO(s), Facility	Cost Estimate Information
CSO(s): N/A SSO(s): N/A PSO(s): N/A	Project Phase: Preplanning Estimate Source: Consultant Estimate Date: 18-DEC-2019

Project Description

The Mill Creek Raw Sewage Pump Station consists of two physically separate pumping stations: The North PS and the South PS. The North PS was constructed in the mid-1950's and consists of nine vertical centrifugal pumps rated at 40 MGD each (320 MGD firm capacity). The South PS was constructed in the late 1980's and consists of three vertical centrifugal pumps with two rated at 65 MGD each and one rated at 30 MGD (95 MGD firm capacity). Existing firm plant capacity is 455 MGD.

Recent hydraulic modeling has concluded that up to 700 MGD could be conveyed to the MCWWTP. Expanding the treatment capacity of the MCWWTP to 700 MGD will require the existing influent firm pumping capacity to be upgraded. Additionally, the existing pump station wet wells are not divided into sections to facilitate repairs or cleaning and leads to floatable accumulations, grit build-up, and pump clogging.

This project will construct a new pump station to be connected to both a new diversion structure being constructed under the bridge schedule and to a future wet weather facility. This is the second step of construction necessary to construct the future wet weather facility.

This project is located in the Lower Price Hill neighborhood in the City of Cincinnati, Hamilton County, Ohio.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$500,000	\$0	\$0	\$500,000
Design	\$3,344,948	\$0	\$12,000,000	\$0	\$12,000,000
Pre-Construction Services	\$2,229,965	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$278,746	\$0	\$2,000,000	\$0	\$2,000,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$61,324,042	\$0	\$0	\$112,000,000	\$112,000,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$11,428,571	\$0	\$0	\$9,000,000	\$9,000,000
Interest / Financing	\$1,393,728	\$0	\$0	\$0	\$0
Total	\$80,000,000	\$500,000	\$14,000,000	\$121,000,000	\$135,500,000

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$500,000	\$14,000,000	\$0	\$0	\$0	\$121,000,000	\$135,500,000

Prior Legislation Action							
Dec 2020							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	11/01/2021	11/20/2023	n/a	06/29/2025	-	08/23/2030	-
End Date	07/12/2023	09/11/2025	n/a	08/27/2031	-	08/22/2031	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI	CSO 182 Strategic Sewer Separation	2022 Capital Budget and Capital Improvement Program
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Project Overview		Modeling Overview
Project ID: 10172095	WWIP Index #:317 R	Model Requires Update for Project: Yes
Project Type: Sewer	Project Category:	Additional Flow Monitoring Required: Yes
WWTP Basin: Little Miami	Sanitary Sewer No: 6986	Comment: LMSWM Existing conditions updates installed quarterly. next updates with model due back early Nov
Watershed: Clough		
Municipality: City of Cincinnati		
Neighborhood: Mt. Washington		

Benefited CSO(s), SSO(s), PSO(s), Facility	Cost Estimate Information
CSO(s): 182	Project Phase: Preplanning
SSO(s): N/A	Estimate Date: 17-SEP-2021
PSO(s): N/A	Estimate Source: MSD

Project Description

This project is located in the Mt. Washington neighborhood of the City of Cincinnati, Hamilton County. The project's objective is to strategically separate portions of the watershed by utilizing about 3,500 LF of a 54" or larger storm sewer discharging via a new stormwater outfall to Berkshire Creek. The goal of this separation is to reduce overflows at CSO 182, and reduce the size of or eliminate, the proposed Berkshire HRT (WWIP Phase 2 project). The project will pick up in the vicinity of the Phase 1 discharge of the Mt. Washington Source Control Implementation project (PID 10172940), and would run east along Ambar Avenue, and then roughly parallel the existing combined sewer all the way to a new discharge point at the existing headwaters of Berkshire Creek. The size of the proposed sewer was determined to only be sufficient to handle the flows from the Phase 1 neighborhood separation as well as a limited number of catch basins adjacent to the new alignment. During planning, additional flow monitoring and modeling will be required to determine proper sizing of the storm sewer and appropriate areas for additional sewer separation. Additional separation projects tributary to this proposed storm sewer will be necessary to meet WWIP overflow requirements at CSO 182. The project has a high priority ranking due to the presence of high and medium risk sewer segments, SBU complaints, and sewer capacity issues per the existing model. There are also SMU projects in the vicinity that are currently in the planning and design phase. MSD should coordinate with these projects to determine the best location for their discharge to the new separated stormwater infrastructure. Asset management needs in the vicinity of the project should be evaluated during the planning phase.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$630,000	\$0	\$304,200	\$0	\$304,200
Design	\$1,110,000	\$0	\$0	\$504,100	\$504,100
Pre-Construction Services	\$420,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$2,310,000	\$0	\$0	\$118,200	\$118,200
Right-of-Way	\$1,040,000	\$0	\$0	\$322,400	\$322,400
Construction	\$15,400,000	\$0	\$0	\$5,072,823	\$5,072,823
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$1,650,000	\$0	\$0	\$342,400	\$342,400
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$22,560,000	\$0	\$304,200	\$6,359,923	\$6,664,123

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$0	\$304,200	\$944,700	\$0	\$0	\$5,415,223	\$6,664,123

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/01/2022	01/16/2023	06/26/2024	01/12/2027		07/14/2028	
End Date	09/27/2023	09/09/2026	06/25/2026	07/13/2028		07/13/2029	n/a



LMWWTP Standby Power

2022 Capital Budget and Capital Improvement Program

Project Overview		Modeling Overview
Project ID: 10172900	WWIP Index #: 204	Model Requires Update for Project: No
Project Type: Treatment Facility	Project Category:	Additional Flow Monitoring Required: No
WWTP Basin: Little Miami	Sanitary Sewer No: 6796	Comment:
Watershed: Lower Duck Creek		
Municipality: City of Cincinnati		
Neighborhood: East End		
Benefited CSO(s), SSO(s), PSO(s), Facility		Cost Estimate Information
CSO(s): N/A		Project Phase: Design/ROW
SSO(s): N/A		Estimate Date: 17-AUG-2021
PSO(s): N/A		Estimate Source: Consultant

Project Description

The project includes improvements to the electrical system and standby power at the Little Miami WWTP. These improvements include replacement of the existing standby power generators that provide backup power for emergency lighting, storm drainage pumps, groundwater pumps and other critical equipment. This project also includes the construction of an electrical room to house the new main plant primary and secondary switchgear. A recent analysis of the electrical systems at the Four Mile Pump Station and Secondary Building indicated that the existing electrical equipment has reached the end of its useful life. The existing electrical room, located on the second floor in the Little Miami WWTP Secondary Treatment Building, is not conditioned and does not provide enough space to allow for the necessary electrical expansion. Due to the timing of current and future projects this project was pushed forward as the upgraded electrical system at Little Miami needs to be in place before any plant expansions are completed. The Four Mile Pump Station electrical room is also not conditioned and hard to access. Delaying this project will result in the delaying of all current and future Little Miami WWTP improvements. The Little Miami WWTP is located in the East End neighborhood of the City of Cincinnati.


Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$375,356	\$1,033,300	\$0	\$0	\$1,033,300
Pre-Construction Services	\$160,652	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$94,722	\$200,000	\$100,000	\$0	\$300,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$4,417,919	\$0	\$21,243,000	\$0	\$21,243,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$823,340	\$0	\$1,925,000	\$0	\$1,925,000
Interest / Financing	\$100,407	\$0	\$578,000	\$0	\$578,000
Total	\$5,972,396	\$1,233,300	\$23,846,000	\$0	\$25,079,300

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$1,233,300	\$23,846,000	\$0	\$0	\$0	\$0	\$25,079,300

Prior Legislation Action

Jan 2020


Project Phase	Project Schedule						
	Planning	Design	Right of Way	Construction	Substantial Comp.	Closout	Regulatory Compliance
Start Date	n/a	01/01/2020	n/a	09/26/2022		11/27/2023	
End Date	n/a	05/26/2022	n/a	11/27/2023	09/26/2023	11/25/2024	n/a

	<h2 style="margin:0;">Main Sewer Renewal Program 2022</h2>	<h2 style="margin:0;">2022 Capital Budget and Capital Improvement Program</h2>
Project Overview		Modeling Overview
Project ID: 10180122 Project Type: Allowance WWTP Basin: Multiple Watershed: Multiple Municipality: System Wide Neighborhood: Systemwide	WWIP Index #: 113 Project Category: Sanitary Sewer No:	Model Requires Update for Project: N/A Additional Flow Monitoring Required: N/A Comment:
Benefited CSO(s), SSO(s), PSO(s), Facility		Cost Estimate Information
CSO(s): N/A SSO(s): N/A PSO(s): N/A		Project Phase: Allowance Estimate Source: N/A Estimate Date:
Project Description		
<p>This allowance addresses the renewal, repair, and rehabilitation of existing main sewers throughout MSD's service area using trenchless technologies. The program focuses on structurally deteriorated main sewers to improve the hydraulic performance of the sewer. Building sewers are excluded. Trenchless technologies have many benefits such as; shorter duration, durable, safer, and cost effective. This program's scope will include, but not limit itself to, slip-lining, point lining, spiral wound lining, pipe bursting, carbon filament wrapping, directional drilling, jack-and-boring, Cured-in-place-pipe, and other methods. The sewer segments to be addressed under this program were identified through investigations (condition assessments) of the sewer lines and are prioritized based on their risk ranking relative to sewer's structural condition, and the likelihood and consequence of a sewer failure. The risk ranking is calculated utilizing the Gravity Sewer Asset Management System (GSAM).</p>		

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$0	\$0	\$0	\$0
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$0	\$0	\$0	\$0	\$0
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$6,210,000	\$0	\$6,210,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$0	\$6,210,000	\$0	\$6,210,000

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$0	\$6,210,000	\$0	\$0	\$0	\$0	\$6,210,000


Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	n/a	01/03/2022	n/a	01/03/2022		n/a	
End Date	n/a	06/30/2023	n/a	06/30/2023		n/a	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI		Manhole Renewal Program 2022		2022 Capital Budget and Capital Improvement Program	
Project Overview			Modeling Overview		
Project ID: 10180222 Project Type: Allowance WWTP Basin: System Wide Watershed: Multiple Municipality: System Wide Neighborhood: Systemwide		WWIP Index #: 113 Project Category: Sanitary Sewer No:		Model Requires Update for Project: N/A Additional Flow Monitoring Required: N/A Comment:	
Benefited CSO(s), SSO(s), PSO(s), Facility			Cost Estimate Information		
CSO(s): N/A SSO(s): N/A PSO(s): N/A			Project Phase: Allowance Estimate Source: N/A		Estimate Date:
Project Description					
This allowance addresses the repair, rehabilitation and replacement of structurally deteriorated manholes throughout the system. The work includes manhole repairs, rim adjustments, replacement, and chimney repairs to accommodate street paving and improvement projects. Manhole repairs, rehab and replacement projects are prioritized based on their risk ranking relative to structural condition and the likelihood and consequence of failure.					

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$0	\$0	\$0	\$0
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$0	\$0	\$0	\$0	\$0
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$934,410	\$0	\$934,410
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$103,500	\$0	\$103,500
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$0	\$1,037,910	\$0	\$1,037,910

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$0	\$1,037,910	\$0	\$0	\$0	\$0	\$1,037,910

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	n/a	01/01/2022	n/a	01/01/2022		n/a	
End Date	n/a	12/31/2022	n/a	12/31/2022		n/a	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI		Phase 2 WWIP Planning 2022		2022 Capital Budget and Capital Improvement Program	
Project Overview			Modeling Overview		
Project ID: 10190222 Project Type: Allowance WWTP Basin: System Wide Watershed: Multiple Municipality: System Wide Neighborhood: Systemwide		WWIP Index #: 113 Project Category: Sanitary Sewer No: 7049		Model Requires Update for Project: N/A Additional Flow Monitoring Required: N/A Comment:	
Benefited CSO(s), SSO(s), PSO(s), Facility			Cost Estimate Information		
CSO(s): N/A SSO(s): N/A PSO(s): N/A			Project Phase: Allowance Estimate Source: N/A		Estimate Date:
Project Description					
This funding will provide ongoing support for the technical evaluations and support for the capital program, regulatory and affordability needs for the Phase 2A program. This additionally includes all legal costs associated with regulatory support related to the negotiations of the Phase 2A WWIP.					

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$2,587,500	\$0	\$2,587,500
Design	\$0	\$0	\$0	\$0	\$0
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$0	\$0	\$0	\$0	\$0
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$0
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$0	\$2,587,500	\$0	\$2,587,500

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$0	\$2,587,500	\$0	\$0	\$0	\$0	\$2,587,500

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closout	Regulatory Compliance
Start Date	01/03/2022	n/a	n/a	n/a		n/a	
End Date	12/28/2022	n/a	n/a	n/a		n/a	n/a



Pleasant Run Pump Station Upgrades

2022 Capital Budget and Capital Improvement Program

Project Overview		Modeling Overview
Project ID: 10240426	WWIP Index #:	Model Requires Update for Project: No
Project Type: Pump Station	Project Category:	Additional Flow Monitoring Required: No
WWTP Basin: Mill Creek	Sanitary Sewer No: 6611	Comment:
Watershed: Pleasant Run		
Municipality: Springfield Township, City of Forest Park		
Neighborhood: Inside Ham Cty/Outside City		
Benefited CSO(s), SSO(s), PSO(s), Facility		Cost Estimate Information
CSO(s): N/A		Project Phase: Planning
SSO(s): 1055		Estimate Date: 02-FEB-2021
PSO(s): N/A		Estimate Source: Consultant

Project Description

This project is to upgrade the Pleasant Run East, West, and Central. These pump stations were installed in the 1970s with Dry Well Wet Well configurations and operate in series. The firm capacity of the system is around 11 MGD. The upgrades include the elimination of the Pleasant Run Central Pump Station, the rehabilitation of the Pleasant Run East Pump Station, and the construction of a new Pleasant Run West Pump Station. Pleasant Run East will be redirected to Pleasant Run West where a larger Pleasant Run West Pump Station will be constructed and sized to convey all flow within the Pleasant Run Basin and store enough water to prevent overflows at SSO 1055 up to the 10-year 24 hour storm. This will allow for the elimination of Pleasant Run Central. Dual forcemains will be installed at Pleasant Run West and Pleasant Run East to address redundancy issues. Previously funded planning efforts are to evaluate all overflow impacts on sewer systems as a result of this project. This project is located in Springfield Township and the City of Forest Park, Hamilton County, Ohio. Please note that WWIP Index 263 was a joint project with Butler County to build a new treatment plant that would remove the Pleasant Run flow from the Mill Creek WWTP basin and eliminate the Pleasant Run pump stations. The current pump station upgrade project will no longer remove flow from Mill Creek, but it is required since the original project which was described in the WWIP is no longer feasible.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$1,675,000	\$1,675,000	\$0	\$0	\$1,675,000
Design	\$990,000	\$2,070,325	\$45,914	\$0	\$2,116,239
Pre-Construction Services	\$712,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$343,000	\$343,000	\$22,000	\$0	\$365,000
Right-of-Way	\$696,000	\$696,000	\$1,354,000	\$0	\$2,050,000
Construction	\$15,300,000	\$0	\$0	\$34,294,000	\$34,294,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$2,356,000	\$0	\$0	\$1,650,000	\$1,650,000
Interest / Financing	\$765,000	\$0	\$0	\$0	\$0
Total	\$22,837,000	\$4,784,325	\$1,421,914	\$35,944,000	\$42,150,239

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$4,784,325	\$1,421,914	\$0	\$0	\$35,944,000	\$0	\$42,150,239

Prior Legislation Action

Jan 2019, Feb 2020

Project Schedule

Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closout	Regulatory Compliance
Start Date	08/26/2019	01/01/2020	07/06/2022	05/30/2025		11/30/2026	
End Date	04/28/2021	10/16/2024	07/04/2024	11/30/2026		11/29/2027	n/a



**LMWWTP Solids Disposal
With Odor Control**

**2022 Capital Budget
and Capital
Improvement Program**

Project Overview		Modeling Overview	
Project ID: 10281100	WWTP Index #: 200	Model Requires Update for Project: No	
Project Type: Treatment Facility	Project Category:	Additional Flow Monitoring Required: No	
WWTP Basin: Little Miami	Sanitary Sewer No: 6914	Comment:	
Watershed: Lower Duck Creek			
Municipality: City of Cincinnati			
Neighborhood: East End			
Benefited CSO(s), SSO(s), PSO(s), Facility		Cost Estimate Information	
CSO(s): N/A		Project Phase: Planning	Estimate Date: 06-AUG-2021
SSO(s): N/A		Estimate Source: Consultant	
PSO(s): N/A			

Project Description

This project will address critical solids handling, disposal and odor control needs at Little Miami WWTP. The project objective is to shift the Little Miami WWTP to a regional Class-A digestion facility by including the following improvements: a new regional anaerobic digestion facility to produce Class A biosolids; receiving, pretreatment and storage facilities for liquid high-strength waste and imported sludges from Polk Run WWTP and Sycamore Creek WWTP; process for thickening sludge; biogas conditioning and upgrading; facilities for using conditioned and upgraded biogas for onsite power generation or vehicle fuel; centrifuge facilities for sludge dewatering; facilities for loading sludge into vehicles for off-site land application; improvements for the mitigation of struvite deposition; odor control and treatment; a levee around the new facilities for flood protection; site improvements, electrical system improvements, I&C improvements, and other supporting systems; and integration with remaining facilities at the Little Miami WWTP.


This project is located at the Little Miami WWTP at 225 Wilmer Ave in the East End neighborhood of the City of Cincinnati.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$856,325	\$0	\$0	\$856,325
Design	\$2,402,500	\$9,100,000	\$5,300,000	\$0	\$14,400,000
Pre-Construction Services	\$586,800	\$586,800	\$0	\$0	\$586,800
Miscellaneous Expense	\$216,200	\$350,000	\$450,000	\$0	\$800,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$143,500,000	\$143,500,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$1,100,000	\$1,100,000
Interest / Financing	\$0	\$0	\$0	\$5,400,000	\$5,400,000
Total	\$3,205,500	\$10,893,125	\$5,750,000	\$150,000,000	\$166,643,125

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$10,893,125	\$5,750,000	\$0	\$150,000,000	\$0	\$0	\$166,643,125

Prior Legislation Action
Jan 2019, Feb 2020, Apr 2020, Dec 2020


Project Phase	Project Schedule						
	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	04/26/2019	11/03/2021	n/a	08/29/2024		07/17/2028	
End Date	10/06/2021	08/17/2024	n/a	07/17/2028		07/16/2029	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI		CSO 488/490 I-75 Reconstruction Coordination		2022 Capital Budget and Capital Improvement Program	
Project Overview			Modelling Overview		
Project ID: 11142741 Project Type: Sewer WWTP Basin: Mill Creek Watershed: Upper South Branch Mill Creek Municipality: City of Cincinnati Neighborhood: Carthage		WWTP Index #: 453R Project Category: Sanitary Sewer No: 6408		Model Requires Update for Project: No Additional Flow Monitoring Required: No Comment:	
Benefited CSO(s), SSO(s), PSO(s), Facility			Cost Estimate Information		
CSO(s): N/A SSO(s): N/A PSO(s): N/A			Project Phase: Design/ROW Estimate Source:		Estimate Date:
Project Description					
CSO 488 I-75 Reconstruction Coordination will collaborate with ODOT's I-75 highway reconstruction and incorporate stormwater crossings of I-75, CSO 490 relocation and storm separation, and asset management improvements critical to the sewersheds of CSOs 488 and 490. The project is located in the Carthage neighborhood of the City of Cincinnati.					

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$28,000	\$0	\$0	\$28,000
Pre-Construction Services	\$0	\$39,000	\$0	\$0	\$39,000
Miscellaneous Expense	\$0	\$66,000	\$0	\$0	\$66,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$1,558,000	\$0	\$900,000	\$0	\$900,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$55,000	\$0	\$40,000	\$0	\$40,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$1,613,000	\$133,000	\$940,000	\$0	\$1,073,000

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$133,000	\$940,000	\$0	\$0	\$0	\$0	\$1,073,000


Prior Legislation Action							
Jul 2014, Dec 2020							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	03/14/2013	03/14/2013	08/20/2041	05/27/2022		11/27/2023	
End Date	11/01/2021	12/15/2021	12/19/2042	11/27/2023		11/25/2024	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI		Program Management and Support Services 2022		2022 Capital Budget and Capital Improvement Program	
Project Overview			Modeling Overview		
Project ID: 10199022 Project Type: Allowance WWTP Basin: System Wide Watershed: Multiple Municipality: System Wide Neighborhood: Systemwide		WWIP Index #: 113 Project Category: Sanitary Sewer No:		Model Requires Update for Project: N/A Additional Flow Monitoring Required: N/A Comment:	
Benefited CSO(s), SSO(s), PSO(s), Facility			Cost Estimate Information		
CSO(s): N/A SSO(s): N/A PSO(s): N/A			Project Phase: Allowance Estimate Source: N/A		Estimate Date:
Project Description					
The Program Management Team (PMT) consists of outside professional consultant staff working in an integrated manner with internal MSD personnel. The PMT is providing support for the development and delivery of the entire CIP, inclusive of all WWIP and Asset Management projects. The core services needed to support the management, delivery, and reporting has been defined in an Annual Program Work Plan. The budget, as a % of the CIP, is consistent with average National Program Management Fees, per CMAA. This allowance also provides budget for legal capital project services.					

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$0	\$0	\$0	\$0
Pre-Construction Services	\$0	\$0	\$6,970,000	\$0	\$6,970,000
Miscellaneous Expense	\$0	\$0	\$0	\$0	\$0
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$0
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$0	\$6,970,000	\$0	\$6,970,000

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$0	\$6,970,000	\$0	\$0	\$0	\$0	\$6,970,000


Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/03/2022	n/a	n/a	n/a		n/a	
End Date	12/30/2022	n/a	n/a	n/a		n/a	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI	Hamilton County Utility Oversight and Coordination 2022	2022 Capital Budget and Capital Improvement Program
Project Overview		Modeling Overview
Project ID: 10199122 Project Type: Allowance WWTP Basin: System Wide Watershed: Multiple Municipality: System Wide Neighborhood: Systemwide	WWIP Index #: 113 Project Category: Sanitary Sewer No:	Model Requires Update for Project: N/A Additional Flow Monitoring Required: N/A Comment:
Benefited CSO(s), SSO(s), PSO(s), Facility		Cost Estimate Information
CSO(s): N/A SSO(s): N/A PSO(s): N/A	Project Phase: Allowance Estimate Date: Estimate Source: N/A	
Project Description		
Hamilton County's continued use of County staff and outside consultants and attorneys is critical to ensure that MSD rate payers are funding only those projects that are necessary and cost effective to adhere to the terms of phase I of the Wet Weather Improvement Program "WWIP", as well as ongoing Asset Management projects and allowances. The Monitor Team will work closely with MSD employees and supplemental staff to ensure that projects are built on time and on budget to minimize risk to the County and MSDGC rate payers. The project funds the team responsible for this oversight function. Previous legislation for these services was funded under the Wet Weather Program Management and Support Services Allowance.		

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$0	\$0	\$0	\$0
Pre-Construction Services	\$0	\$0	\$4,554,000	\$0	\$4,554,000
Miscellaneous Expense	\$0	\$0	\$0	\$0	\$0
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$0
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$0	\$4,554,000	\$0	\$4,554,000

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$0	\$4,554,000	\$0	\$0	\$0	\$0	\$4,554,000


Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	n/a	n/a	n/a	n/a		n/a	
End Date	n/a	n/a	n/a	n/a		n/a	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI		Programmatic Contingency		2022 Capital Budget and Capital Improvement Program	
Project Overview			Modeling Overview		
Project ID: 13090000 Project Type: Contingency WWTP Basin: System Wide Watershed: Municipality: System Wide Neighborhood: Systemwide		WWIP Index #: N/A Project Category: Sanitary Sewer No:		Model Requires Update for Project: N/A Additional Flow Monitoring Required: N/A Comment:	
Benefited CSO(s), SSO(s), PSO(s), Facility			Cost Estimate Information		
CSO(s): N/A SSO(s): N/A PSO(s): N/A			Project Phase:		Estimate Date:
Project Description					
For 2021, the Allowance for Programmatic Contingency has been estimated at \$5 million which is consistent with expenditures from this fund in recent years, and consistent with industry standard benchmarking. Costs are allocated to specific capital projects as they are expended.					

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$0	\$0	\$0	\$0
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$50,000,000	\$11,746,147	\$5,000,000	\$20,000,000	\$36,746,147
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$0
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$50,000,000	\$11,746,147	\$5,000,000	\$20,000,000	\$36,746,147

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$11,746,147	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$36,746,147


Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	n/a	n/a	n/a	01/03/2011		n/a	
End Date	n/a	n/a	n/a	12/31/2016		n/a	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI	<h2 style="margin:0;">MSD LABOR</h2>	<h2 style="margin:0;">2022 Capital Budget and Capital Improvement Program</h2>
Project Overview		Modeling Overview
Project ID: 13099999 WWIP Index #: N/A Project Type: Allowance Project Category: WWTP Basin: System Wide Sanitary Sewer No: Watershed: Multiple Municipality: Multiple Neighborhood: Systemwide		Model Requires Update for Project: N/A Additional Flow Monitoring Required: N/A Comment:
Benefited CSO(s), SSO(s), PSO(s), Facility		Cost Estimate Information
CSO(s): N/A SSO(s): N/A PSO(s): N/A		Project Phase: Allowance Estimate Date: Estimate Source:
Project Description		
This allowance was initiated in 2020 to allow all WVE staff to discontinue direct charges to projects and instead charge to an allowance that would then be allocated back to projects based on a formula. The cost of MSD labor has been removed from project specific budgets to avoid double counting.		

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$0	\$0	\$0	\$0
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$0	\$10,500,000	\$5,500,000	\$22,000,000	\$38,000,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$0
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$10,500,000	\$5,500,000	\$22,000,000	\$38,000,000

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$10,500,000	\$5,500,000	\$5,500,000	\$5,500,000	\$5,500,000	\$5,500,000	\$38,000,000


Prior Legislation Action							
Jan 2020-Dec 2020							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	n/a	n/a	n/a	n/a	n/a	n/a	n/a
End Date	n/a	n/a	n/a	n/a	n/a	n/a	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI		Colerain-Bevis Pump Station Replacement		2022 Capital Budget and Capital Improvement Program	
Project Overview			Modeling Overview		
Project ID: 10222005 Project Type: Pump Station WWTP Basin: Taylor Creek Watershed: New Baltimore Municipality: Colerain Township Neighborhood: Inside Ham Ctry/Outside City		WWIP Index #: Project Category: Sanitary Sewer No: 6951	Model Requires Update for Project: Yes Additional Flow Monitoring Required: Yes Comment:		
Benefited CSO(s), SSO(s), PSO(s), Facility			Cost Estimate Information		
CSO(s): N/A SSO(s): N/A PSO(s): N/A			Project Phase: Preplanning Estimate Source: Preplanning Cost Estimate Estimate Date: 10-AUG-2020		
Project Description					
The project is located in Colerain Township, in the New Baltimore Watershed of the Taylor Creek Basin. Several deteriorated assets and other deficiencies have been identified by the wastewater treatment division. This project will evaluate the station for replacement or rehabilitation. Additionally, the force main will also be evaluated for repair or replacement.					

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$310,000	\$0	\$310,000
Design	\$490,000	\$0	\$0	\$490,000	\$490,000
Pre-Construction Services	\$160,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$1,400,000	\$0	\$0	\$1,400,000	\$1,400,000
Right-of-Way	\$45,000	\$0	\$0	\$45,000	\$45,000
Construction	\$4,200,000	\$0	\$0	\$4,200,000	\$4,200,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$550,000	\$0	\$0	\$550,000	\$550,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$6,845,000	\$0	\$310,000	\$6,685,000	\$6,995,000

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$0	\$310,000	\$1,935,000	\$0	\$0	\$4,750,000	\$6,995,000

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closout	Regulatory Compliance
Start Date	01/04/2022	01/16/2023	10/18/2023	05/06/2026		11/06/2027	
End Date	11/30/2022	12/31/2025	10/16/2025	11/05/2027	09/06/2027	11/04/2028	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI	<h2 style="margin:0;">Stratford Lake Pump Station Elimination</h2>	<h2 style="margin:0;">2022 Capital Budget and Capital Improvement Program</h2>
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Project Overview		Modeling Overview
Project ID: 10222015	WWIP Index #:NA	Model Requires Update for Project: Yes
Project Type: Pump Station	Project Category:	Additional Flow Monitoring Required: Yes
WWTP Basin: Taylor Creek	Sanitary Sewer No:	Comment:
Watershed: Taylor Creek - Miamitown		
Municipality: Green Township		
Neighborhood: Inside Ham City/Outside City		
Benefited CSO(s), SSO(s), PSO(s), Facility		Cost Estimate Information
CSO(s): N/A		Project Phase: Design/ROW
SSO(s): N/A		Estimate Date: 29-JUL-2020
PSO(s): N/A		Estimate Source: Internal MSD

Project Description

Stratford Lake Pump Station has been struggling to perform during wet weather leading to high wet well level alarms. Several reports of sewer back-ups and sewage surfacing have occurred since 2016 along the LPFM located on Mallard Crossing Ln. and Boomer Rd. All requests for sewer availability have been put on hold until these issues are addressed, including a request by the Hamilton County Health Department to connect 38 homes. Due to a public sewer extension by an adjacent development, there is an opportunity to eliminate the Stratford Lakes Pump Station by gravity. This project will also evaluate the ability to add the 38 homes that have been ordered to connect now that Stratford Lakes Pump Station will be removed from the LPFM. The project cost estimate accounts for demolition of the existing Stratford Lakes Pump Station and modification of the existing LPFM to accommodate the 38 homes that have been ordered to connect. This project located in Green Township, Hamilton County, Ohio.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$76,733	\$76,733	\$0	\$0	\$76,733
Design	\$104,261	\$0	\$0	\$0	\$0
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$46,300	\$0	\$20,000	\$0	\$20,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$591,580	\$0	\$150,000	\$0	\$150,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$61,524	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$880,398	\$76,733	\$170,000	\$0	\$246,733

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$76,733	\$170,000	\$0	\$0	\$0	\$0	\$246,733

Prior Legislation Action							
Dec 2020							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/01/2021	01/10/2022	n/a	12/01/2022		07/30/2023	
End Date	10/29/2021	08/03/2022	n/a	07/29/2023	05/30/2023	07/28/2024	n/a



**Westport Village PS
Elimination**

**2022 Capital Budget
and Capital
Improvement Program**

Project Overview		Modeling Overview
Project ID: 10230041	WWIP Index #: 000	Model Requires Update for Project: No
Project Type: Pump Station	Project Category:	Additional Flow Monitoring Required: No
WWTP Basin: Muddy Creek	Sanitary Sewer No: 6272	Comment:
Watershed: Lower Muddy Creek		
Municipality: Green Township		
Neighborhood: Inside Ham Cty/Outside City		
Benefited CSO(s), SSO(s), PSO(s), Facility		Cost Estimate Information
CSO(s): N/A		Project Phase: Design/ROW
SSO(s): N/A		Estimate Date: 07-JUN-2021
PSO(s): 750		Estimate Source: Internal MSD

Project Description


This project will eliminate the aging pump station. The pump station is nearing its end of useful life of 40 years. The force main and control panel are well beyond their useful life. The station does not have back-up power and is located in an area with a history of power outages. If elimination is delayed, MSD will be required to make a sizeable investment to provide backup power. Additionally, there is a historic issue with grease and rags dating back to the original nomination that continues today. This pump station has an overflow that discharges to a stream located behind several homes. Since May 2019, there have been 7 recorded overflows, including 3 during dry weather overflows.

This project will eliminate the existing pump station by installing approximately 425 feet of new 12-inch diameter gravity sewer and replacing approximately 675 feet of existing 12-inch diameter gravity sewer at a deeper depth. The replacement of existing sewer will provide more adequate flushing velocity in order to minimize potential sewer backups. The project is located in Green Township, between Charity Drive and Sharlene Court.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$190,100	\$167,123	\$0	\$0	\$167,123
Pre-Construction Services	\$103,700	\$103,700	\$0	\$0	\$103,700
Miscellaneous Expense	\$57,600	\$57,600	\$0	\$0	\$57,600
Right-of-Way	\$0	\$22,977	\$0	\$0	\$22,977
Construction	\$1,152,300	\$0	\$1,429,000	\$0	\$1,429,000
Program Management	\$0	\$22,562	\$0	\$0	\$22,562
Construction Services	\$73,200	\$0	\$50,000	\$0	\$50,000
Interest / Financing	\$24,400	\$0	\$0	\$0	\$0
Total	\$1,601,300	\$373,962	\$1,479,000	\$0	\$1,852,962

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$373,962	\$1,479,000	\$0	\$0	\$0	\$0	\$1,852,962


Prior Legislation Action							
Dec 2011, Jan 2014, May 2014							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closout	Regulatory Compliance
Start Date	05/17/2010	06/22/2011	02/07/2013	10/06/2022		12/06/2023	
End Date	06/21/2011	05/11/2022	01/03/2014	12/05/2023	10/06/2023	12/04/2024	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI	Harrison Avenue North and South Hydraulic Improvements	2022 Capital Budget and Capital Improvement Program
Project Overview		Modeling Overview
Project ID: 10230170 Project Type: Sewer WWTP Basin: Muddy Creek Watershed: Upper Muddy Creek Municipality: Green Township Neighborhood: Inside Ham Cty/Outside City	WWIP Index #: N/A Project Category: Sanitary Sewer No: 6833	Model Requires Update for Project: Yes Additional Flow Monitoring Required: Yes Comment: FM - one meter 2011
Benefited CSO(s), SSO(s), PSO(s), Facility		Cost Estimate Information
CSO(s): N/A SSO(s): N/A PSO(s): N/A		Project Phase: Preplanning Estimate Date: 10-AUG-2020 Estimate Source: Preplanning Cost Estimate
Project Description		
The project is located in Green Township, Hamilton County, in the Upper Muddy Creek watershed of the Muddy Creek Basin. The project will evaluate approximately 6,100 feet of gravity sewer of varying sized in the Harrison Avenue area for replacement and possible relocation. The area experiences numerous capacity related issues and includes numerous pipe segments in undesirable locations, such as beneath buildings. The project was initially identified in the CSO 198 & 518 Basin Study and planning efforts will confirm or update the recommendations made in that study.		

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$290,000	\$0	\$290,000	\$0	\$290,000
Design	\$470,000	\$0	\$0	\$470,000	\$470,000
Pre-Construction Services	\$160,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$1,300,000	\$0	\$0	\$260,000	\$260,000
Right-of-Way	\$225,000	\$0	\$0	\$225,000	\$225,000
Construction	\$4,600,000	\$0	\$0	\$4,600,000	\$4,600,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$540,000	\$0	\$0	\$80,000	\$80,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$7,585,000	\$0	\$290,000	\$5,635,000	\$5,925,000

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$0	\$290,000	\$0	\$955,000	\$0	\$0	\$1,245,000

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	05/09/2022	01/15/2024	11/06/2024	06/28/2027		12/29/2028	
End Date	01/31/2024	01/20/2027	11/05/2026	12/29/2028	10/30/2028	12/28/2029	n/a


 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI		Benz Avenue (HN 1111) Sewer Replacement		2022 Capital Budget and Capital Improvement Program	
Project Overview			Modeling Overview		
Project ID: 10232005 Project Type: Sewer WWTP Basin: Muddy Creek Watershed: North Rapid Run Municipality: City of Cincinnati Neighborhood: West Price Hill		WWIP Index #: Project Category: Sanitary Sewer No: 6940		Model Requires Update for Project: Yes Additional Flow Monitoring Required: Yes Comment: If just repair/fix no update needed	
Benefited CSO(s), SSO(s), PSO(s), Facility			Cost Estimate Information		
CSO(s): N/A SSO(s): N/A PSO(s): N/A			Project Phase: Preplanning Estimate Source: Preplanning Cost Estimate Estimate Date: 10-AUG-2020		
Project Description					
The project is located in the West Price Hill neighborhood of the City of Cincinnati, Hamilton County, Ohio, in the North Rapid Run watershed of the Muddy Creek Basin. The project will evaluate the replacement or rehabilitation of structurally deficient 22" VCP sewers located beneath a residential structure.					

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$90,000	\$0	\$90,000
Design	\$31,000	\$0	\$0	\$100,000	\$100,000
Pre-Construction Services	\$10,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$31,000	\$0	\$0	\$31,000	\$31,000
Right-of-Way	\$30,000	\$0	\$0	\$30,000	\$30,000
Construction	\$100,000	\$0	\$0	\$100,000	\$100,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$20,000	\$0	\$0	\$20,000	\$20,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$222,000	\$0	\$90,000	\$281,000	\$371,000

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$0	\$90,000	\$0	\$161,000	\$0	\$0	\$251,000

Prior Legislation Action


Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/01/2022	01/15/2024	10/30/2024	05/12/2027		11/10/2028	
End Date	07/19/2023	01/13/2027	10/29/2026	11/10/2028	09/11/2028	11/10/2029	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI		Rapid Run and Foley Road PS Receiver Manhole Installation		2022 Capital Budget and Capital Improvement Program	
Project Overview			Modeling Overview		
Project ID: 10232030 Project Type: Pump Station WWTP Basin: Muddy Creek Watershed: River Road Municipality: City of Cincinnati Neighborhood: Riverside		WWTP Index #: N/A Project Category: Sanitary Sewer No: 7104		Model Requires Update for Project: No Additional Flow Monitoring Required: No Comment: Modeling not required for the scope of this project.	
Benefited CSO(s), SSO(s), PSO(s), Facility			Cost Estimate Information		
CSO(s): N/A SSO(s): N/A PSO(s): 749			Project Phase: Preplanning Estimate Source: Preplanning Cost Est Estimate Date: 22-MAR-2021		
Project Description					
The project is located in the Riverside neighborhood of the City of Cincinnati, Hamilton County, Ohio, in the River Road watershed of the Muddy Creek Basin. The project will install new receiver manholes with grill pits at the Rapid Run and Foley Road Pump Stations. Receiver manholes are used for bypass pumping around the pump station during maintenance activities.					

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$43,900	\$0	\$80,000	\$0	\$80,000
Design	\$54,200	\$0	\$120,000	\$0	\$120,000
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$10,000	\$0	\$10,000	\$0	\$10,000
Right-of-Way	\$34,400	\$0	\$34,400	\$0	\$34,400
Construction	\$238,200	\$0	\$0	\$238,200	\$238,200
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$36,700	\$0	\$0	\$36,700	\$36,700
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$417,400	\$0	\$244,400	\$274,900	\$519,300

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$0	\$244,400	\$0	\$0	\$274,900	\$0	\$519,300


Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/01/2022	11/30/2022	09/13/2023	04/08/2026		10/09/2027	
End Date	11/30/2022	11/26/2025	09/11/2025	10/08/2027	08/09/2027	10/07/2028	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI		CSO 541 Outfall Replacement		2022 Capital Budget and Capital Improvement Program	
Project Overview			Modeling Overview		
Project ID: 10232035 Project Type: Sewer WWTP Basin: Muddy Creek Watershed: River Road Municipality: City of Cincinnati Neighborhood: Riverside		WWTP Index #: N/A Project Category: Sanitary Sewer No: 7141		Model Requires Update for Project: No Additional Flow Monitoring Required: No Comment: Monitoring and modeling not required for this project.	
Benefited CSO(s), SSO(s), PSO(s), Facility			Cost Estimate Information		
CSO(s): 541 SSO(s): N/A PSO(s): N/A			Project Phase: Preplanning Estimate Date: 02-SEP-2021 Estimate Source: MSD Cost Estimating		
Project Description					
This project is located near 5718 River Road in the Riverside neighborhood of the City of Cincinnati, Hamilton County, Ohio in the River Road watershed of the Muddy Creek treatment basin. The project will evaluate alternatives for the replacement or repair of a failed outfall pipe and headwall at CSO 541. The project consists of approximately 150 feet of 36-inch pipe, one manhole, and one headwall on the Ohio River					

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$104,800	\$0	\$209,600	\$0	\$209,600
Design	\$145,600	\$0	\$0	\$145,600	\$145,600
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$17,200	\$0	\$0	\$17,200	\$17,200
Right-of-Way	\$39,000	\$0	\$0	\$39,000	\$39,000
Construction	\$932,200	\$0	\$0	\$932,200	\$932,200
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$62,900	\$0	\$0	\$62,900	\$62,900
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$1,301,700	\$0	\$209,600	\$1,196,900	\$1,406,500

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$0	\$209,600	\$201,800	\$0	\$0	\$995,100	\$1,406,500


Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/01/2022	01/16/2023	11/08/2023	06/03/2026		12/04/2027	
End Date	01/25/2023	01/21/2026	11/06/2025	12/03/2027	10/04/2027	12/02/2028	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI	<h2 style="margin:0;">Colton Lane Sewer Replacement</h2>	<h2 style="margin:0;">2022 Capital Budget and Capital Improvement Program</h2>
Project Overview		Modeling Overview
Project ID: 10240445 WWIP Index #: N/A Project Type: Sewer Project Category: WWTP Basin: Mill Creek Sanitary Sewer No: 7192 Watershed: East Branch Mill Creek Municipality: City of Deer Park Neighborhood: Inside Ham City/Outside City		Model Requires Update for Project: No Additional Flow Monitoring Required: No Comment:
Benefited CSO(s), SSO(s), PSO(s), Facility		Cost Estimate Information
CSO(s): N/A SSO(s): N/A PSO(s): N/A		Project Phase: Planning Estimate Date: 23-APR-2012 Estimate Source: Internal MSD
Project Description		
<p>This project recommends replacement of segments 44907021-44907016 and 44907016-44906016. Both segments have a high criticality. Heavy corrosion due to sulfate attack is evident in segment 44907021-44907016. Segment 44907016-44906016 is included due to the proximity to the nearby residence at 7801 Colton Lane.</p> <p>This project includes the replacement of approximately 240 feet of 12 inch to 15 inch diameter reinforced concrete sewer. The alignment will connect to existing manholes 44907021 and 44906016. Existing sanitary laterals for 3703, 3707, 3711 Matson Avenue and 7801 Colton Lane will require reconnection to the proposed alignment.</p> <p>Benefits of the new sewer include reducing risk by removing an existing asset with quick structural rating of S200 and S128 away from underneath a residence, increasing accessibility by moving the sewer into the public right of way, decreasing inflow into the system.</p>		

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$11,373	\$0	\$0	\$11,373
Design	\$41,800	\$0	\$0	\$0	\$0
Pre-Construction Services	\$12,200	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$34,100	\$0	\$25,000	\$0	\$25,000
Right-of-Way	\$0	\$0	\$15,000	\$0	\$15,000
Construction	\$203,400	\$0	\$0	\$329,400	\$329,400
Program Management	\$0	\$1,270	\$0	\$0	\$1,270
Construction Services	\$14,800	\$0	\$0	\$14,800	\$14,800
Interest / Financing	\$800	\$0	\$0	\$0	\$0
Total	\$307,100	\$12,643	\$40,000	\$344,200	\$396,843

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$12,643	\$40,000	\$0	\$344,200	\$0	\$0	\$396,843


Prior Legislation Action							
May 2014							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	07/22/2011	11/08/2021	07/20/2022	02/06/2025	09/04/2025	11/04/2025	
End Date	09/18/2012	10/02/2024	07/18/2024	11/03/2025	09/04/2025	11/03/2026	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI	MCWWTP Standby Power Distribution System Improvements	2022 Capital Budget and Capital Improvement Program
Project Overview Project ID: 10240625 WWTP Index #: NA Project Type: Treatment Facility Project Category: WWTP Basin: Mill Creek Sanitary Sewer No: 6866 Watershed: Central Municipality: City of Cincinnati Neighborhood: Lower Price Hill		Modeling Overview Model Requires Update for Project: No Additional Flow Monitoring Required: No Comment:
Benefited CSO(s), SSO(s), PSO(s), Facility CSO(s): N/A SSO(s): N/A PSO(s): N/A	Cost Estimate Information Project Phase: Design/ROW Estimate Date: 07-MAY-2021 Estimate Source: Consultant	
Project Description The Project will increase the reliability of MCWWTP's current standby power distribution system at 1600 Gest Street, Cincinnati, OH 45204. This project is in the Lower Price Hill neighborhood of the City of Cincinnati. This project will upgrade critical standby power generating and distribution assets at MCWWTP. The project will be replacing critical components to improve reliability and maintenance of the standby power system, improve control and monitoring, and provide additional capacity for standby loads not currently supported.		

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$344,000	\$434,917	\$0	\$0	\$434,917
Pre-Construction Services	\$75,000	\$75,000	\$0	\$0	\$75,000
Miscellaneous Expense	\$45,000	\$45,000	\$0	\$0	\$45,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$3,424,000	\$0	\$5,148,000	\$0	\$5,148,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$309,000	\$0	\$790,000	\$0	\$790,000
Interest / Financing	\$129,000	\$0	\$242,000	\$0	\$242,000
Total	\$4,326,000	\$554,917	\$6,180,000	\$0	\$6,734,917

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$554,917	\$6,180,000	\$0	\$0	\$0	\$0	\$6,734,917


Prior Legislation Action							
Jan 2019-Jul 2020							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	06/01/2017	01/01/2019	n/a	12/27/2022		08/30/2024	
End Date	06/29/2018	07/20/2022	n/a	08/30/2024	07/01/2024	08/29/2025	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI		Mill Creek WWC Maintenance Shop Improvements		2022 Capital Budget and Capital Improvement Program	
Project Overview			Modeling Overview		
Project ID: 10240645 Project Type: Treatment Facility WWTP Basin: Mill Creek Watershed: Upper South Branch Mill Creek Municipality: City of Cincinnati Neighborhood: Hartwell		WWIP Index #: 000 Project Category: Sanitary Sewer No:		Model Requires Update for Project: N/A Additional Flow Monitoring Required: N/A Comment:	
Benefited CSO(s), SSO(s), PSO(s), Facility			Cost Estimate Information		
CSO(s): N/A SSO(s): N/A PSO(s): N/A			Project Phase: Design/ROW Estimate Source: Estimate Date:		
Project Description					
The purposes of the WWC Maintenance Shop Improvements are to provide additional office and shop space for current and future staffing levels. This added space will also provide an area for maintenance personnel to access a computerized maintenance management system for improved asset management. The Location is in the Hartwell community of the City of Cincinnati.					

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$115,850	\$119,756	\$0	\$0	\$119,756
Pre-Construction Services	\$14,500	\$15,674	\$0	\$0	\$15,674
Miscellaneous Expense	\$14,500	\$14,500	\$0	\$0	\$14,500
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$965,390	\$1,437,918	\$1,902,514	\$0	\$3,340,432
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$53,100	\$83,100	\$66,015	\$0	\$149,115
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$1,163,340	\$1,670,948	\$1,968,529	\$0	\$3,639,477

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$1,670,948	\$1,968,529	\$0	\$0	\$0	\$0	\$3,639,477


Prior Legislation Action							
Dec 2014, Jan 2016, Dec 2017, Oct 2018							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	05/25/2012	01/01/2019	n/a	06/24/2022		12/26/2023	
End Date	03/31/2015	12/20/2019	n/a	12/26/2023	10/25/2023	12/24/2024	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI		Mill Creek 4.16 kV & 13.2 kV Loop Improvements		2022 Capital Budget and Capital Improvement Program	
Project Overview			Modeling Overview		
Project ID: 10240697 Project Type: Treatment Facility WWTP Basin: Mill Creek Watershed: Central Municipality: City of Cincinnati Neighborhood: Lower Price Hill		WWIP Index #: N/A Project Category: Sanitary Sewer No: 6867		Model Requires Update for Project: No Additional Flow Monitoring Required: No Comment:	
Benefited CSO(s), SSO(s), PSO(s), Facility			Cost Estimate Information		
CSO(s): N/A SSO(s): N/A PSO(s): N/A			Project Phase: Design/ROW Estimate Source: Consultant		Estimate Date: 07-MAY-2021
Project Description					
The Project will upgrade the existing at-risk 4.16kV and 13.2kV distribution loop equipment not currently being planned for replacement with other projects in MCWWTP. This project is in the Lower Price Hill neighborhood of the City of Cincinnati. This project will upgrade critical MSD owned assets within the existing 4.16kV and 13.2kV distribution loop at MCWWTP. The project will be replacing critical components to improve reliability and maintenance of the distribution loop system, improve control and monitoring, and provide additional capacity for the overall electrical distribution system at MCWWTP. An additional scope was added to the project to address future power outage to MSD Administration building, Division of Industrial Waste (DIW) building, and Central Maintenance Facility (CMF) building.					

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$117,000	\$249,268	\$0	\$0	\$249,268
Pre-Construction Services	\$75,000	\$75,000	\$0	\$0	\$75,000
Miscellaneous Expense	\$40,000	\$40,000	\$0	\$0	\$40,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$1,044,000	\$0	\$5,389,000	\$0	\$5,389,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$100,000	\$0	\$510,000	\$0	\$510,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$1,376,000	\$364,268	\$5,899,000	\$0	\$6,263,268

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$364,268	\$5,899,000	\$0	\$0	\$0	\$0	\$6,263,268


Prior Legislation Action							
Jan 2019, Sep 2020							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	06/01/2017	01/01/2019	n/a	12/27/2022		08/30/2024	
End Date	06/29/2018	07/20/2022	n/a	08/30/2024	07/01/2024	08/29/2025	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI		Valleyview Court Sewer Replacement		2022 Capital Budget and Capital Improvement Program	
Project Overview			Modeling Overview		
Project ID: 10240720 Project Type: Sewer WWTP Basin: Mill Creek Watershed: Clifton Municipality: City of Cincinnati Neighborhood: University/Fairview Heights		WWIP Index #: Project Category: Sanitary Sewer No: 6680		Model Requires Update for Project: Yes Additional Flow Monitoring Required: No Comment: FM - 2019	
Benefited CSO(s), SSO(s), PSO(s), Facility			Cost Estimate Information		
CSO(s): SSO(s): N/A PSO(s): N/A			Project Phase: Planning Estimate Source: Consultant		Estimate Date: 20-OCT-2021
Project Description					
This project was nominated by WWC due to the deteriorating condition of sewer segments under buildings. This project will rehabilitate or replace approximately 295 feet of 15-inch combine sewer that is located in close proximity to a residential structure. The combine sewer was built in 1916. In addition, multiple pipe segments that are located in direct proximity of the project such as Valleyview Court, Luna Avenue, and Clemmer Avenue may be spot-repaired and lined with a structural liner. The evaluation of pipe is on-going. Most of the pipes in the described area are 12-inch vitrified clay pipes that were installed in 1916. This project will mitigate risk of pipe failure under structures. This project is located in neighborhood of University Heights near the intersection of Valleyview Court and Clemmer Avenue.					

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$90,000	\$166,000	\$0	\$0	\$166,000
Design	\$120,000	\$0	\$189,000	\$0	\$189,000
Pre-Construction Services	\$24,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$200,000	\$0	\$60,000	\$0	\$60,000
Right-of-Way	\$30,000	\$0	\$84,000	\$0	\$84,000
Construction	\$720,000	\$0	\$0	\$825,000	\$825,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$84,000	\$0	\$0	\$23,200	\$23,200
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$1,268,000	\$166,000	\$333,000	\$848,200	\$1,347,200

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$166,000	\$333,000	\$0	\$0	\$848,200	\$0	\$1,347,200

Prior Legislation Action							
Jan 2020							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	04/30/2019	03/17/2022	12/07/2022	07/25/2025		06/22/2026	
End Date	03/16/2022	02/19/2025	12/06/2024	06/22/2026	04/21/2026	06/21/2027	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI		Shaffer Avenue Sewer Replacement		2022 Capital Budget and Capital Improvement Program	
Project Overview			Modeling Overview		
Project ID: 10240725 Project Type: Sewer WWTP Basin: Mill Creek Watershed: West Fork Municipality: City of Cincinnati Neighborhood: Westwood		WWIP Index #: N/A Project Category: Sanitary Sewer No: 6681		Model Requires Update for Project: Yes Additional Flow Monitoring Required: No Comment: FM - 2019	
Benefited CSO(s), SSO(s), PSO(s), Facility			Cost Estimate Information		
CSO(s): N/A SSO(s): N/A PSO(s): N/A			Project Phase: Planning Estimate Source: Consultant		Estimate Date: 04-DEC-2020
Project Description					
Approximately 811 LF of 10-24" combined sewer on Shaffer Ave. needs to be rehabilitated or replaced. Upstream segments 25308011-25301021 show sections of pipe received PACP scoring of 4A00 and 4700. The alignment runs underneath the home at 2768 Shaffer Avenue, and manhole 25301027 is currently located in the basement of the structure. The system in this area has no known capacity issues.					
The approved BCE that went through stage gate 2 evaluated CIPP lining or replacing the sewer in a different alignment. The recommended alternative moves the alignment out from underneath or near residential houses. This alternative abandons the sewer and manhole 25301027 underneath the home at 2768 Shaffer Avenue.					
The proposed 490 LF of combined sewer would start with a new manhole located on the 10-inch storm line west of existing manhole 25308014.					

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$166,000	\$0	\$0	\$166,000
Design	\$76,000	\$0	\$144,200	\$0	\$144,200
Pre-Construction Services	\$12,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$100,000	\$0	\$103,100	\$0	\$103,100
Right-of-Way	\$60,000	\$0	\$64,200	\$0	\$64,200
Construction	\$352,000	\$0	\$0	\$891,700	\$891,700
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$43,000	\$0	\$0	\$52,500	\$52,500
Interest / Financing	\$4,000	\$0	\$0	\$0	\$0
Total	\$647,000	\$166,000	\$311,500	\$944,200	\$1,421,700

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$166,000	\$311,500	\$0	\$0	\$944,200	\$0	\$1,421,700

Prior Legislation Action							
Jan 2020							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	04/27/2019	01/10/2022	10/05/2022	05/30/2025		11/30/2026	
End Date	12/21/2020	12/18/2024	10/03/2024	11/30/2026	09/30/2026	11/29/2027	n/a



De Voite Avenue Sewer Replacement

2022 Capital Budget and Capital Improvement Program

Project Overview		Modeling Overview	
Project ID: 10240735	WWIP Index #: N/A	Model Requires Update for Project: Yes	
Project Type: Sewer	Project Category:	Additional Flow Monitoring Required: No	
WWTP Basin: Mill Creek	Sanitary Sewer No: 6683	Comment: FM - 2018	
Watershed: Clifton			
Municipality: City of Cincinnati			
Neighborhood: University/Fairview Heights			
Benefited CSO(s), SSO(s), PSO(s), Facility		Cost Estimate Information	
CSO(s):		Project Phase: Design/ROW	Estimate Date: 30-JUL-2021
SSO(s): N/A		Estimate Source: Consultant	
PSO(s): N/A			

Project Description

This project was nominated by WWC due to structural deteriorating condition of sewer segments under buildings. The project will rehabilitate or replace multiple failing pipe segments that are located in a direct proximity to one another. Most of the segments were built between 1910 to 1930. The segments that are to be rehabilitated or replaced are as follows:

- Approximately 238 linear feet of 20-inch that is located beneath residential structures.
- Approximately 398 linear feet of 12-inch that is located in the backyards of houses on Enslin Street and Wagner Street, which is located under buildings.

In addition, multiple pipe segments that are located in Wagner Street, Enslin Street and DeVoite Avenue are going to be spot-repaired and lined with a structural liner. An approximate pipe length that is to be spot-repaired and lined is 908 feet with a diameters ranging from 12 to 24 inches.

This project will mitigate risk of pipe failure under structures, roads, and back yards.

This project is located in neighborhood of University Heights near the intersection of DeVoite Avenue and Enslin Street.


Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$172,000	\$0	\$0	\$172,000
Design	\$120,000	\$0	\$200,000	\$0	\$200,000
Pre-Construction Services	\$22,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$190,000	\$0	\$60,000	\$0	\$60,000
Right-of-Way	\$67,000	\$0	\$90,000	\$0	\$90,000
Construction	\$638,000	\$0	\$0	\$1,370,000	\$1,370,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$78,000	\$0	\$0	\$30,000	\$30,000
Interest / Financing	\$7,250	\$0	\$0	\$0	\$0
Total	\$1,122,250	\$172,000	\$350,000	\$1,400,000	\$1,922,000

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$172,000	\$350,000	\$660,000	\$0	\$740,000	\$0	\$1,922,000

Prior Legislation Action

Jan 2020


Project Phase	Project Schedule						
	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	04/30/2019	01/10/2022	10/05/2022	05/30/2025		04/27/2026	
End Date	09/22/2021	12/18/2024	10/03/2024	04/27/2026	02/24/2026	04/26/2027	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI		Tennessee Avenue (HN 1754) Sewer Replacement		2022 Capital Budget and Capital Improvement Program	
Project Overview			Modeling Overview		
Project ID: 10240740 Project Type: Sewer WWTP Basin: Mill Creek Watershed: Ross Run Municipality: City of Cincinnati Neighborhood: Bond Hill		WWIP Index #: Project Category: Sanitary Sewer No: 6684		Model Requires Update for Project: No Additional Flow Monitoring Required: No Comment: Project does not require modeling or monitoring	
Benefited CSO(s), SSO(s), PSO(s), Facility			Cost Estimate Information		
CSO(s): 487 SSO(s): 1066 PSO(s): N/A			Project Phase: Planning Estimate Source: Jacobs		Estimate Date: 24-JAN-2020
Project Description					
The purpose of this project is to evaluate a sewer pipe with that is located beneath commercial structures at 1754 Tennessee Avenue and determine the best alternative to address the identified necessary improvements. Planning efforts include CCTV inspection, alternatives analysis, and development of a BCE with recommendation. Pipe segment 37902034-37902033 is approximately 103 feet of 24-inch combined of unknown age. Additional segments included in the planning analysis are: 37902035-37902033-37902021 and 3790234-3790245. This project is in the Avondale neighborhood of the City of Cincinnati.					

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$74,000	\$0	\$190,000	\$0	\$190,000
Pre-Construction Services	\$12,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$100,000	\$0	\$100,000	\$0	\$100,000
Right-of-Way	\$60,000	\$0	\$60,000	\$0	\$60,000
Construction	\$341,000	\$0	\$0	\$310,000	\$310,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$41,000	\$0	\$0	\$10,000	\$10,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$628,000	\$0	\$350,000	\$320,000	\$670,000

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$0	\$350,000	\$0	\$0	\$320,000	\$0	\$670,000

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/24/2020	01/10/2022	03/22/2023	10/27/2025		04/30/2027	
End Date	03/09/2022	06/04/2025	03/20/2025	04/30/2027	03/01/2027	04/28/2028	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI		Galbraith Rd to Sheldon Avenue Sewer Replacement		2022 Capital Budget and Capital Improvement Program	
Project Overview			Modeling Overview		
Project ID: 10240780 Project Type: Sewer WWTP Basin: Mill Creek Watershed: West Branch Winton Woods Municipality: Colerain Township Neighborhood: Outside Ham City/Outside City		WWIP Index #: Project Category: Sanitary Sewer No: 6696		Model Requires Update for Project: Yes Additional Flow Monitoring Required: No Comment: FM - 2018	
Benefited CSO(s), SSO(s), PSO(s), Facility			Cost Estimate Information		
CSO(s): N/A SSO(s): N/A PSO(s): N/A			Project Phase: Planning Estimate Source: Consultant		Estimate Date: 27-MAY-2021
Project Description					
This sewer replacement project was nominated for evaluation due to the sewer segments location under the residential buildings on Galbraith Road and Sheldon Avenue. The sewer has severe structural defects in segments 25914021-25914020 and 25914020-25914037, including fractures and deformation of greater than 10 percent, and a significant sag. Segments show a section of fractured pipe that may be in excess of the allowable shapeloss for successful CIPP lining rehabilitation and another area with a sizable low spot suggesting that the segment should be considered for replacement. The BCE will evaluate alternatives including sewer replacement or rehabilitation.					

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$171,000	\$0	\$0	\$171,000
Design	\$38,000	\$0	\$90,000	\$0	\$90,000
Pre-Construction Services	\$5,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$42,000	\$0	\$95,500	\$0	\$95,500
Right-of-Way	\$30,000	\$0	\$261,000	\$0	\$261,000
Construction	\$140,000	\$0	\$0	\$452,700	\$452,700
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$17,000	\$0	\$0	\$10,000	\$10,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$272,000	\$171,000	\$446,500	\$462,700	\$1,080,200

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$171,000	\$446,500	\$0	\$0	\$462,700	\$0	\$1,080,200

Prior Legislation Action							
Jan 2020							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	04/27/2019	01/10/2022	11/02/2022	06/26/2025		12/28/2026	
End Date	01/12/2022	01/15/2025	10/31/2024	12/28/2026	10/27/2026	12/27/2027	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI	Overlook Avenue near Glenway Ave Sewer Replacement	2022 Capital Budget and Capital Improvement Program
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Project Overview	Modeling Overview
Project ID: 10240810 Project Type: Sewer WWTP Basin: Mill Creek Watershed: Bold Face Creek Municipality: City of Cincinnati Neighborhood: West Price Hill WWTP Index #: N/A Project Category: Sanitary Sewer No: 6703	Model Requires Update for Project: No Additional Flow Monitoring Required: No Comment: FM - 2018, Calibration scheduled for 2021

Benefited CSO(s), SSO(s), PSO(s), Facility	Cost Estimate Information
CSO(s): SSO(s): N/A PSO(s): N/A	Project Phase: Planning Estimate Source: MSDGC Estimate Date: 22-JAN-2019

Project Description

This project was nominated by WWC due to the failing sewers under buildings. Including sewer directly underneath St. Teresa of Avila Elementary School.

The project will rehabilitate or replace multiple failing pipe segments that are located under buildings. Segments to be rehabilitated or replaced are as follows:

- Approximately 609 linear feet of 15-inch pipe that is located under multiple structures
- Approximately 296 linear feet of 12-inch pipe that is located under a structure.

The project will mitigate risk of failing sewers under buildings.

This project is located in the City of Cincinnati neighborhood of West Price Hill near the intersection of Overlook Avenue and Glenway Avenue.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$178,000	\$0	\$0	\$178,000
Design	\$55,000	\$0	\$200,000	\$0	\$200,000
Pre-Construction Services	\$8,300	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$69,000	\$0	\$69,000	\$0	\$69,000
Right-of-Way	\$30,000	\$0	\$85,000	\$0	\$85,000
Construction	\$230,000	\$0	\$0	\$900,000	\$900,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$29,000	\$0	\$0	\$15,000	\$15,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$421,300	\$178,000	\$354,000	\$915,000	\$1,447,000

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$178,000	\$354,000	\$0	\$0	\$915,000	\$0	\$1,447,000

Prior Legislation Action							
Jan 2020							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	04/30/2019	01/10/2022	02/22/2023	09/29/2025		08/25/2026	
End Date	05/25/2022	05/07/2025	02/20/2025	08/25/2026	06/26/2026	08/24/2027	n/a



Dorchester Avenue at Highland Avenue Sewer Replacement

2022 Capital Budget and Capital Improvement Program

Project Overview		Modeling Overview
Project ID: 10242030	WWIP Index #: N/A	Model Requires Update for Project: No
Project Type: Sewer	Project Category:	Additional Flow Monitoring Required: No
WWTP Basin: Mill Creek	Sanitary Sewer Nu: 6850	Comment:
Watershed: East Ohio River		
Municipality: City of Cincinnati		
Neighborhood: Mt. Auburn		
Benefited CSO(s), SSO(s), PSO(s), Facility		Cost Estimate Information
CSO(s): N/A		Project Phase: Planning
SSO(s): N/A		Estimate Date: 04-MAY-2021
PSO(s): N/A		Estimate Source: Consultant

Project Description

This project addresses a deteriorating sewer that was installed in 1928. The project also includes adjacent pipe segments for a total length of approximately 525 feet of 15 to 18-inch sewer.


The BCE evaluated the existing asset. Two alternatives were evaluated that proposed removal of the asset from underneath residences within the project area. The recommended alternative is to abandon old and deep sewers under houses, divert the flow to a new sewer on Dorchester Ave and divert Highland Ave sewer flow from the south in a new sewer to manhole 33610037. The alternative includes the following work items: fill seal and abandon 3 pipe segments - 318 feet of 15" & 86 feet of 18" pipe, install 110 feet of new 12" sewer extension in Highland Ave. to manhole 33610037 and install 220' of 12" sewer to manhole 33610036.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$160,000	\$0	\$0	\$0	\$0
Design	\$230,000	\$0	\$124,360	\$0	\$124,360
Pre-Construction Services	\$58,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$480,000	\$0	\$27,000	\$0	\$27,000
Right-of-Way	\$60,000	\$0	\$65,300	\$0	\$65,300
Construction	\$1,500,000	\$0	\$0	\$584,400	\$584,400
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$200,000	\$0	\$0	\$21,600	\$21,600
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$2,688,000	\$0	\$216,660	\$606,000	\$822,660

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$0	\$216,660	\$0	\$0	\$606,000	\$0	\$822,660

Prior Legislation Action


Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/06/2020	01/10/2022	10/05/2022	05/30/2025		01/26/2026	
End Date	06/02/2021	12/18/2024	10/03/2024	01/26/2026	11/26/2025	01/25/2027	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI		Queen City Avenue (HN 2047) Sewer Rehabilitation		2022 Capital Budget and Capital Improvement Program	
Project Overview			Modeling Overview		
Project ID: 10242055 Project Type: Sewer WWTP Basin: Mill Creek Watershed: Lick Run Municipality: City of Cincinnati Neighborhood: South Fairmount		WWIP Index #: Project Category: Sanitary Sewer No: 6941		Model Requires Update for Project: No Additional Flow Monitoring Required: No Comment:	
Benefited CSO(s), SSO(s), PSO(s), Facility			Cost Estimate Information		
CSO(s): N/A SSO(s): N/A PSO(s): N/A			Project Phase: Preplanning Estimate Source: Preplanning Cost Estimate Estimate Date: 03-APR-2019		
Project Description					
This project is located at 2047 Queen City Avenue in the City of Cincinnati neighborhood of South Fairmount. The project is in the Lick Run watershed of the Mill Creek basin. This project will evaluate the replacement or rehabilitation of structurally deficient 24" VCP combined sewer.					

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$80,000	\$0	\$80,000
Design	\$40,000	\$0	\$0	\$90,000	\$90,000
Pre-Construction Services	\$52,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$43,000	\$0	\$0	\$43,000	\$43,000
Right-of-Way	\$22,500	\$0	\$0	\$225,000	\$225,000
Construction	\$140,000	\$0	\$0	\$140,000	\$140,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$18,000	\$0	\$0	\$18,000	\$18,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$315,500	\$0	\$80,000	\$516,000	\$596,000

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$0	\$80,000	\$358,000	\$0	\$0	\$158,000	\$596,000


Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/01/2022	01/16/2023	11/01/2023	06/03/2026		12/04/2027	
End Date	01/18/2023	01/14/2026	10/30/2025	12/03/2027	10/04/2027	12/02/2028	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI	Fenton Avenue (HN 1336) Sewer Relocation	2022 Capital Budget and Capital Improvement Program
Project Overview Project ID: 10242080 WWIP Index #: Project Type: Sewer Project Category: WWTP Basin: Mill Creek Sanitary Sewer No: 6966 Watershed: East Branch Mill Creek Municipality: City of Reading Neighborhood: Inside Ham City/Outside City		Modeling Overview Model Requires Update for Project: Yes Additional Flow Monitoring Required: Yes Comment: No monitoring / modeling done
Benefited CSO(s), SSO(s), PSO(s), Facility: CSO(s): N/A SSO(s): N/A PSO(s): N/A		Cost Estimate Information Project Phase: Preplanning Estimate Date: 10-AUG-2020 Estimate Source: Preplanning Cost Estimate
Project Description The project is in the City of Reading, located within the East Branch Mill Creek watershed and the Mill Creek basin. The project will investigate potential capacity issues and relocate high and extreme risk sewer segments in the area of 1336 Fenton Avenue.		

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$110,000	\$0	\$110,000
Design	\$150,000	\$0	\$0	\$150,000	\$150,000
Pre-Construction Services	\$35,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$277,000	\$0	\$0	\$277,000	\$277,000
Right-of-Way	\$8,000	\$0	\$0	\$8,000	\$8,000
Construction	\$1,100,000	\$0	\$0	\$1,100,000	\$1,100,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$120,000	\$0	\$0	\$120,000	\$120,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$1,690,000	\$0	\$110,000	\$1,655,000	\$1,765,000

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$0	\$110,000	\$0	\$435,000	\$0	\$0	\$545,000


Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/03/2022	01/15/2024	10/16/2024	05/11/2027		11/10/2028	
End Date	05/31/2023	12/30/2026	10/15/2026	11/09/2028	09/10/2028	11/09/2029	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI	Village Woods Pump Station and System Improvements	2022 Capital Budget and Capital Improvement Program
Project Overview		Modeling Overview
Project ID: 10242085 Project Type: Pump Station WWTP Basin: Mill Creek Watershed: East Branch Mill Creek Municipality: City of Sharonville Neighborhood:	WWIP Index #: NA Project Category: Sanitary Sewer No: 6967	Model Requires Update for Project: N/A Additional Flow Monitoring Required: N/A Comment:
Benefited CSO(s), SSO(s), PSO(s), Facility		Cost Estimate Information
CSO(s): N/A SSO(s): N/A PSO(s): N/A	Project Phase: Planning Estimate Date: Estimate Source:	
Project Description		
The project is located within the Village Woods subdivision, in the East Branch Mill Creek watershed and the City of Sharonville. The project will reduce sediment accumulation within an existing force main serving the neighborhood. The project is related to the original pump station and force main installation, sewer number 3077.		

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$58,000	\$86,000	\$34,000	\$0	\$120,000
Pre-Construction Services	\$9,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$31,000	\$50,000	\$0	\$0	\$50,000
Right-of-Way	\$15,000	\$30,000	\$0	\$0	\$30,000
Construction	\$310,000	\$0	\$0	\$454,000	\$454,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$30,000	\$0	\$0	\$70,000	\$70,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$453,000	\$166,000	\$34,000	\$524,000	\$724,000

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$166,000	\$34,000	\$0	\$0	\$524,000	\$0	\$724,000


Prior Legislation Action							
Dec 2020							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	04/06/2020	01/04/2021	05/24/2023	12/03/2025		06/05/2027	
End Date	03/09/2022	08/06/2025	05/22/2025	06/04/2027	04/05/2027	06/03/2028	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI		Donna Lane & Ester Marie Drive Sewer Relocation and Rehab		2022 Capital Budget and Capital Improvement Program	
Project Overview			Modeling Overview		
Project ID: 10242090 Project Type: Sewer WWTP Basin: Mill Creek Watershed: East Branch Mill Creek Municipality: Sycamore Township Neighborhood: Inside Ham Cty/Outside City		WWIP Index #: N/A Project Category: Sanitary Sewer No: 6968		Model Requires Update for Project: No Additional Flow Monitoring Required: No Comment:	
Benefited CSO(s), SSO(s), PSO(s), Facility			Cost Estimate Information		
CSO(s): N/A SSO(s): N/A PSO(s): N/A			Project Phase: Preplanning Estimate Source: Preplanning Cost Est Estimate Date: 10-AUG-2020		
Project Description					
The project is located within Sycamore Township and is within the East Branch Mill Creek watershed and Mill Creek basin. The project will evaluate replacement or rehabilitation of high and extreme risk sewer under residential structures and near the intersection of Donna Lane and Ester Marie Drive.					

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$86,000	\$0	\$86,000
Design	\$110,000	\$0	\$0	\$110,000	\$110,000
Pre-Construction Services	\$21,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$170,000	\$0	\$0	\$170,000	\$170,000
Right-of-Way	\$15,000	\$0	\$0	\$15,000	\$15,000
Construction	\$540,000	\$0	\$0	\$540,000	\$540,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$72,000	\$0	\$0	\$72,000	\$72,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$928,000	\$0	\$86,000	\$907,000	\$993,000

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$0	\$86,000	\$0	\$295,000	\$0	\$0	\$381,000


Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/01/2022	01/15/2024	10/16/2024	05/11/2027		11/10/2028	
End Date	05/31/2023	12/30/2026	10/15/2026	11/09/2028	09/10/2028	11/09/2029	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI		Blair Avenue to Rockdale Avenue Sewer Study		2022 Capital Budget and Capital Improvement Program	
Project Overview			Modeling Overview		
Project ID: 10242100 Project Type: Study WWTP Basin: Mill Creek Watershed: Ross Run Municipality: City of Cincinnati Neighborhood: Avondale		WWIP Index #: N/A Project Category: Sanitary Sewer No: 6970		Model Requires Update for Project: Yes Additional Flow Monitoring Required: Yes Comment:	
Benefited CSO(s), SSO(s), PSO(s), Facility			Cost Estimate Information		
CSO(s): N/A SSO(s): N/A PSO(s): N/A			Project Phase: Preplanning Estimate Source: Preplanning Cost Estimate Estimate Date: 10-FEB-2021		
Project Description					
The project is in the Avondale neighborhood of Cincinnati, within the Ross Run watershed and Mill Creek basin, and will study the area to identify the best alternative to address high risk sewer segments, capacity issues, SBUs, and odor complaints for a complex sewer system from Reading Rd and Stewart Pl, Blair Ave, and downstream to the intersection of Rockdale Ave & Victory Pkwy. This is a planning study only.					

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$850,000	\$0	\$850,000
Design	\$1,500,000	\$0	\$0	\$0	\$0
Pre-Construction Services	\$780,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$6,500,000	\$0	\$0	\$0	\$0
Right-of-Way	\$340,000	\$0	\$0	\$0	\$0
Construction	\$25,000,000	\$0	\$0	\$0	\$0
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$2,700,000	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$36,820,000	\$0	\$850,000	\$0	\$850,000

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$0	\$850,000	\$0	\$0	\$0	\$0	\$850,000


Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	n/a	05/08/2030	05/22/2031	10/18/2033		n/a	
End Date	n/a	05/23/2033	05/06/2033	11/22/2034		n/a	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI		Loth Street (HN 2272) Sewer Relocation and Rehab		2022 Capital Budget and Capital Improvement Program	
Project Overview			Modeling Overview		
Project ID: 10242105 Project Type: Sewer WWTP Basin: Mill Creek Watershed: Central Municipality: City of Cincinnati Neighborhood: Mt. Auburn		WWTP Index #: N/A Project Category: Sanitary Sewer No: 6971		Model Requires Update for Project: Yes Additional Flow Monitoring Required: Yes Comment:	
Benefited CSO(s), SSO(s), PSO(s), Facility			Cost Estimate Information		
CSO(s): N/A SSO(s): N/A PSO(s): N/A			Project Phase: Preplanning Estimate Source: Preplanning Cost Estimate Estimate Date: 10-AUG-2020		
Project Description					
The project is in the Mount Auburn neighborhood of Cincinnati, located within the Central watershed and the Mill Creek basin. The project will investigate potential capacity issues and evaluate replacement or rehabilitation of high and extreme risk sewers in the area of 2272 Loth Street.					

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$160,000	\$0	\$160,000
Design	\$230,000	\$0	\$0	\$230,000	\$230,000
Pre-Construction Services	\$58,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$480,000	\$0	\$0	\$480,000	\$480,000
Right-of-Way	\$22,000	\$0	\$0	\$22,000	\$22,000
Construction	\$1,500,000	\$0	\$0	\$1,500,000	\$1,500,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$200,000	\$0	\$0	\$200,000	\$200,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$2,490,000	\$0	\$160,000	\$2,432,000	\$2,592,000

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$0	\$160,000	\$0	\$732,000	\$0	\$0	\$892,000


Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closout	Regulatory Compliance
Start Date	01/01/2022	01/15/2024	10/16/2024	05/11/2027		11/10/2028	
End Date	10/11/2023	12/30/2026	10/15/2026	11/09/2028	09/10/2028	11/09/2029	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI		Central Avenue and W 9th Street Sewer		2022 Capital Budget and Capital Improvement Program	
Project Overview			Modeling Overview		
Project ID: 10242110 Project Type: Sewer WWTP Basin: Mill Creek Watershed: Central Municipality: City of Cincinnati Neighborhood: West End		WWIP Index #: N/A Project Category: Sanitary Sewer No: 6972		Model Requires Update for Project: No Additional Flow Monitoring Required: No Comment:	
Benefited CSO(s), SSO(s), PSO(s), Facility			Cost Estimate Information		
CSO(s): N/A SSO(s): N/A PSO(s): N/A			Project Phase: Preplanning Estimate Date: 10-AUG-2020 Estimate Source: Preplanning Cost Estimate		
Project Description					
The project is located in the City of Cincinnati, West End, on Central Avenue and W 9th Street. The project area includes approximately 936 feet of 18-30 inch diameter sewer with several segments potentially located beneath a structure. The project will investigate potential capacity issues and evaluate replacement or rehabilitation of structurally deficient sewer segments.					

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$130,000	\$0	\$130,000
Design	\$190,000	\$0	\$0	\$190,000	\$190,000
Pre-Construction Services	\$42,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$350,000	\$0	\$0	\$350,000	\$350,000
Right-of-Way	\$15,000	\$0	\$0	\$15,000	\$15,000
Construction	\$1,100,000	\$0	\$0	\$1,100,000	\$1,100,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$150,000	\$0	\$0	\$150,000	\$150,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$1,847,000	\$0	\$130,000	\$1,805,000	\$1,935,000

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$0	\$130,000	\$0	\$555,000	\$0	\$0	\$685,000


Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closout	Regulatory Compliance
Start Date	01/01/2022	01/15/2024	10/23/2024	05/11/2027		11/10/2028	
End Date	11/29/2023	01/06/2027	10/22/2026	11/09/2028	09/10/2028	11/09/2029	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI		Central Avenue (HN 1964) Sewer		2022 Capital Budget and Capital Improvement Program	
Project Overview			Modeling Overview		
Project ID: 10242115 Project Type: Sewer WWTP Basin: Mill Creek Watershed: Central Municipality: City of Cincinnati Neighborhood: West End		WWIP Index #: N/A Project Category: Sanitary Sewer No: 6973		Model Requires Update for Project: No Additional Flow Monitoring Required: No Comment:	
Benefited CSO(s), SSO(s), PSO(s), Facility			Cost Estimate Information		
CSO(s): N/A SSO(s): N/A PSO(s): N/A			Project Phase: Preplanning Estimate Date: 10-AUG-2020 Estimate Source: Preplanning Cost Estimate		
Project Description					
The project is located in the City of Cincinnati, West End, between Central Avenue and Central Parkway at 1964 Central Avenue. The project area includes approximately 133 feet of 18-inch combined sewer and several upstream sewer segments. The project will investigate capacity issues and evaluate replacement or rehabilitation of structurally deficient sewer segments.					

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$105,000	\$0	\$105,000
Design	\$52,000	\$0	\$0	\$100,000	\$100,000
Pre-Construction Services	\$7,300	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$61,000	\$0	\$0	\$61,000	\$61,000
Right-of-Way	\$22,500	\$0	\$0	\$22,500	\$22,500
Construction	\$190,000	\$0	\$0	\$190,000	\$190,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$25,000	\$0	\$0	\$25,000	\$25,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$357,800	\$0	\$105,000	\$398,500	\$503,500

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$0	\$105,000	\$183,500	\$0	\$0	\$215,000	\$503,500


Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/01/2022	01/16/2023	10/18/2023	05/06/2026		11/06/2027	
End Date	11/30/2022	12/31/2025	10/16/2025	11/05/2027	09/06/2027	11/04/2028	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI		Daly Road Treatment Facility Modifications		2022 Capital Budget and Capital Improvement Program	
Project Overview			Modeling Overview		
Project ID: 10242150 Project Type: Treatment Facility WWTP Basin: Mill Creek Watershed: South Branch Winton Woods Municipality: Springfield Township Neighborhood: Inside Ham City/Outside City		WWIP Index #: Project Category: Sanitary Sewer No: 6784		Model Requires Update for Project: No Additional Flow Monitoring Required: No Comment:	
Benefited CSO(s), SSO(s), PSO(s), Facility			Cost Estimate Information		
CSO(s): S32 SSO(s): N/A PSO(s): N/A			Project Phase: Design/ROW Estimate Source: Internal MSD		Estimate Date: 24-MAY-2021
Project Description					
A Business Case Evaluation (BCE) was approved during the planning phase of this project under the temporary ID 12240070. The recommended alternative is to abandon and demolish portions of the existing storage facility. The existing regulator will be retained and used to control downstream underflow capacity. Electrical, mechanical, and miscellaneous equipment will be removed. The tank areas will be partially demolished and backfilled, and the site restored with topsoil and seed.					

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$78,600	\$0	\$85,300	\$0	\$85,300
Pre-Construction Services	\$13,300	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$30,700	\$0	\$35,000	\$0	\$35,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$443,100	\$0	\$0	\$483,033	\$483,033
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$534,000	\$0	\$0	\$98,600	\$98,600
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$1,099,700	\$0	\$120,300	\$581,633	\$701,933

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$0	\$120,300	\$0	\$581,633	\$0	\$0	\$701,933


Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	n/a	01/10/2022	n/a	06/28/2024		12/29/2025	
End Date	n/a	11/01/2023	n/a	12/29/2025	10/29/2025	12/28/2026	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI		Glen Landing Pump Station Force Main Replacement		2022 Capital Budget and Capital Improvement Program	
Project Overview			Modelling Overview		
Project ID: 10242160 Project Type: Pump Station WWTP Basin: Mill Creek Watershed: East Branch Mill Creek Municipality: City of Springdale Neighborhood: Inside Ham City/Outside City			WWIP Index #: N/A Project Category: Sanitary Sewer No: 2442 Model Requires Update for Project: No Additional Flow Monitoring Required: No Comment: Flows from Pumping Records		
Benefited CSO(s), SSO(s), PSO(s), Facility			Cost Estimate Information		
CSO(s): N/A SSO(s): PSO(s): N/A			Project Phase: Planning Estimate Source: Internal MSD Estimate Date: 29-JUN-2021		
Project Description					
The existing force main was constructed in 1980's and is approximately 1,000-ft of 4-inch DIP force main serving the Glen Landing Pump Station. Multiple emergency repairs have been made on the force main in recent years causing multiple pump station outages. The City of Springdale is planning to repave Princeton Pike. Coordination of MSD's force main replacement and the repaving of Princeton Pike will allow MSD to save on the cost of repaving the entire width of Princeton Pike. Replacement of the force main will reduce the risk of MSD having to perform emergency maintenance once the City of Springdale repaves Princeton Pike.					

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$40,000	\$0	\$0	\$0	\$0
Design	\$50,000	\$0	\$0	\$0	\$0
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$25,000	\$0	\$18,500	\$0	\$18,500
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$213,000	\$0	\$213,000	\$0	\$213,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$52,000	\$0	\$52,000	\$0	\$52,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$380,000	\$0	\$283,500	\$0	\$283,500

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$0	\$283,500	\$0	\$0	\$0	\$0	\$283,500


Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	04/01/2021	01/10/2022	n/a	11/04/2022		07/02/2023	
End Date	11/29/2021	06/01/2022	n/a	07/02/2023		07/01/2024	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI		MCWWTP Disinfection and Outfall		2022 Capital Budget and Capital Improvement Program	
Project Overview			Modeling Overview		
Project ID: 10242165 Project Type: Treatment Facility WWTP Basin: Mill Creek Watershed: Central Municipality: City of Cincinnati Neighborhood: Lower Price Hill		WWTP Index #: N/A Project Category: Sanitary Sewer No: 7092		Model Requires Update for Project: No Additional Flow Monitoring Required: No Comment:	
Benefited CSO(s), SSO(s), PSO(s), Facility			Cost Estimate Information		
CSO(s): N/A SSO(s): N/A PSO(s): N/A			Project Phase: Preplanning Estimate Date: 20-JAN-2021 Estimate Source: Preplanning Cost Est.		
Project Description					
The effluent limits on the Mill Creek WWTP's NPDES permit for fecal coliform switched to E. coli for the 2020 disinfection season. Due to this update, it is necessary to evaluate disinfection options that will allow the plant to meet the new limit. This project will evaluate a variety of options including using PAA, constructing a chlorine contact tank with a dechlorinate system, and rebuilding the current outfall. Improvements and repairs to the Mill Creek Outfall should also be included. An evaluation on possible coordination with the HRT disinfection process should also be included. The MCWWTP is located in the Lower Price Hill.					

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$1,059,393	\$0	\$1,113,900	\$0	\$1,113,900
Design	\$2,132,754	\$0	\$0	\$0	\$0
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$100,000	\$0	\$0	\$0	\$0
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$36,084,058	\$0	\$0	\$0	\$0
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$7,397,232	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$46,773,437	\$0	\$1,113,900	\$0	\$1,113,900

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$0	\$1,113,900	\$0	\$0	\$0	\$0	\$1,113,900


Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/03/2022	01/04/2027	n/a	12/01/2028		06/03/2030	
End Date	05/31/2023	07/12/2028	n/a	06/03/2030		06/02/2031	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI		CSX Railyard Assessment		2022 Capital Budget and Capital Improvement Program	
Project Overview			Modeling Overview		
Project ID: 10242170 Project Type: Sewer WWTP Basin: Mill Creek Watershed: Central Municipality: City of Cincinnati Neighborhood: Queensgate		WWIP Index #: NA Project Category: Sanitary Sewer No: 7117	Model Requires Update for Project: No Additional Flow Monitoring Required: No Comment: None Available		
Benefited CSO(s), SSO(s), PSO(s), Facility			Cost Estimate Information		
CSO(s): 11,12,15,4,430,431,432,489,6,666,7,9 SSO(s): N/A PSO(s): N/A			Project Phase: Planning Estimate Date: 18-MAY-2021 Estimate Source: AMWP Cost Estimating Tool		
Project Description					
Collector sewers for numerous CSOs run underneath portions of the CSX railyard, starting near the I-74 I-75 split continuing South to 6th Street. Multiple of these sewers have documented structural defects, some have not been assessed since 2008, and some have never been assessed. This exposes MSD to potential risks associated with structural failures and emergency repairs. This project will schedule, conduct, and evaluate condition assessments of these sewer crossings in one coordinated effort rather than by piecemeal approach over multiple years. Additionally, the ongoing and upcoming ODOT projects on adjacent sections of I-75 present potential coordination opportunities.					

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$630,000	\$0	\$630,000	\$0	\$630,000
Design	\$0	\$0	\$0	\$0	\$0
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$0	\$0	\$0	\$0	\$0
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$0
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$630,000	\$0	\$630,000	\$0	\$630,000

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$0	\$630,000	\$0	\$0	\$0	\$0	\$630,000

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/03/2022	n/a	n/a	n/a		n/a	
End Date	12/27/2023	n/a	n/a	n/a		n/a	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI	<h2 style="margin:0;">Mill Creek Power Building Decommissioning</h2>	<h2 style="margin:0;">2022 Capital Budget and Capital Improvement Program</h2>
Project Overview		Modeling Overview
Project ID: 10242175 Project Type: Treatment Facility WWTP Basin: Mill Creek Watershed: Central Municipality: City of Cincinnati Neighborhood: Lower Price Hill	WWIP Index #: NA Project Category: Sanitary Sewer No:	Model Requires Update for Project: No Additional Flow Monitoring Required: No Comment: None listed
Benefited CSO(s), SSO(s), PSO(s), Facility		Cost Estimate Information
CSO(s): N/A SSO(s): N/A PSO(s): N/A		Project Phase: Preplanning Estimate Date: 04-AUG-2021 Estimate Source: OPCC-PMT Soft Cost-MSD Estim
Project Description		
<p>The Mill Creek WWTP Power Building has been decommissioned for decades, however several pieces of in-services electrical equipment are still housed in the building. While the majority of the equipment will be addressed with other projects there is no plan for the T-11 transformer. There are various safety concerns associated with the building including poor lighting, the lack of a fire suppression system, and the presence of hazardous PCBs. Additionally, the location of the transformer, in the basement poses, some maintenance challenges including lack of space and potential flooding risk. This project will evaluate options to replace and relocate the T-11 transformer. The project will also explore alternative uses for the power building that will include renovation and demolition with new construction. This project is located at the Mill Creek Wastewater Treatment Plant in the Lower Price Hill Neighborhood of the city of Cincinnati</p>		

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$405,200	\$0	\$405,200	\$0	\$405,200
Design	\$703,700	\$0	\$0	\$703,700	\$703,700
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$35,100	\$0	\$0	\$35,100	\$35,100
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$7,996,300	\$0	\$0	\$7,996,300	\$7,996,300
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$1,748,400	\$0	\$0	\$1,748,400	\$1,748,400
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$10,888,700	\$0	\$405,200	\$10,483,500	\$10,888,700

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$0	\$405,200	\$0	\$0	\$0	\$0	\$405,200

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/03/2022	01/03/2028	n/a	08/31/2029	01/02/2031	03/03/2031	n/a
End Date	05/31/2023	03/28/2029	n/a	03/03/2031	01/02/2031	03/01/2032	n/a



SCWWTP Thickening and Settlement Improvements

2022 Capital Budget and Capital Improvement Program

Project Overview		Modeling Overview
Project ID: 10262005	WWTP Index #: NA	Model Requires Update for Project: No
Project Type: Treatment Facility	Project Category:	Additional Flow Monitoring Required: No
WWTP Basin: Sycamore	Sanitary Sewer No: 6983	Comment: N/A
Watershed: Sycamore		
Municipality: Sycamore Township		
Neighborhood: Inside Ham Cty/Outside City		
Benefited CSO(s), SSO(s), PSO(s), Facility		Cost Estimate Information
CSO(s): N/A		Project Phase: Planning
SSO(s): N/A		Estimate Source: Consultant
PSO(s): N/A		Estimate Date: 10-SEP-2021

Project Description

Currently only one of the two gravity thickener tanks at the plant is available to thicken solids and it is uncovered, which contributes to foul odors at the plant. The existing odor control system is damaged and doesn't currently treat odors effectively. The plant cannot waste solids from the clarifiers and the sludge withdrawal pumps have reached the end of their useful lives. The current flow at the aeration tanks causes foam and floatables to become trapped in each section of the aeration tank.

The project will expand thickening capacity at the plant, increase flexibility for plant operations, replace aging equipment, mitigate plant odors and improve sludge settleability. The project will evaluate both gravity thickeners for upgrades so that both tanks are operational based on the plant's BNR process, including piping modifications, covering the gravity thickener tank and connecting both tanks to a new odor control system. The project will evaluate alternatives for a new control system that will treat foul air exhausted from the gravity thickeners. Aging equipment will be evaluated and replaced, including the gravity thickeners' sludge withdrawal pumps. Modifications on the aeration tanks will be evaluated to address foam trapping in the liquid stream.

This project is located at the Sycamore WWTP at 9273 Old Remington Road in Sycamore Township, Hamilton County, Ohio.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$84,075	\$0	\$0	\$84,075
Design	\$190,000	\$510,661	\$0	\$0	\$510,661
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$20,000	\$20,000	\$0	\$0	\$20,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$308,000	\$0	\$2,537,000	\$0	\$2,537,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$38,500	\$0	\$475,000	\$0	\$475,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$556,500	\$614,736	\$3,012,000	\$0	\$3,626,736

5 Year Projected Legislation

Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$614,736	\$3,012,000	\$0	\$0	\$0	\$0	\$3,626,736

Prior Legislation Action

Feb 2020, Apr 2020, Feb 2021

Project Schedule

Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	04/26/2019	10/14/2021	n/a	03/20/2023		12/09/2024	
End Date	10/13/2021	10/12/2022	n/a	12/09/2024	09/10/2024	12/09/2025	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI	Paxton Ave at Linwood Ave Sewer Replacement	2022 Capital Budget and Capital Improvement Program
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Project Overview	Modeling Overview
Project ID: 10270185 Project Type: Sewer WWTP Basin: Little Miami Watershed: Lower Duck Creek Municipality: City of Cincinnati Neighborhood: Mt. Lookout WWIP Index #: 000 Project Category: Sanitary Sewer No: 6513	Model Requires Update for Project: Yes Additional Flow Monitoring Required: No Comment: FM - 2018, Calibration scheduled for 2021

Benefited CSO(s), SSO(s), PSO(s), Facility	Cost Estimate Information
CSO(s): SSO(s): N/A PSO(s): N/A	Project Phase: Design/ROW Estimate Date: Estimate Source:

Project Description

This project was nominated by Waste Water Collection Division due to a deteriorated sewer underneath a building.

This project will replace 150 feet and line approximately 60 feet of an existing 24-inch combined sewer, which was built in 1907, and is located under a building.

This project will mitigate a risk of sewer failure underneath a building.

This project is located in the Mount Lookout neighborhood of the City of Cincinnati at the intersection of Paxton Avenue and Linwood Avenue

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$50,300	\$50,900	\$0	\$0	\$50,900
Pre-Construction Services	\$7,400	\$19,300	\$0	\$0	\$19,300
Miscellaneous Expense	\$38,500	\$20,900	\$0	\$0	\$20,900
Right-of-Way	\$22,500	\$38,000	\$0	\$0	\$38,000
Construction	\$248,000	\$0	\$482,000	\$0	\$482,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$15,600	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$382,300	\$129,100	\$482,000	\$0	\$611,100

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$129,100	\$482,000	\$0	\$0	\$0	\$0	\$611,100

Prior Legislation Action
 Dec 2015, May 2020, Jul 2021

Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	07/11/2012	08/18/2017	11/29/2019	10/31/2022		05/01/2023	
End Date	12/01/2015	05/11/2022	02/25/2022	05/01/2023	02/28/2023	04/29/2024	n/a



Tusculum Avenue at Woodbridge Sewer Replacement

2022 Capital Budget and Capital Improvement Program

Project Overview		Modeling Overview
Project ID: 10270220	WWIP Index #: NA	Model Requires Update for Project: No
Project Type: Sewer	Project Category:	Additional Flow Monitoring Required: No
WWTP Basin: Little Miami	Sanitary Sewer No: 6692	Comment:
Watershed: Lower Duck Creek		
Municipality: City of Cincinnati		
Neighborhood: Columbia Tusculum		

Benefited CSO(s), SSO(s), PSO(s), Facility	Cost Estimate Information	
CSO(s): N/A	Project Phase: Design/ROW	Estimate Date: 17-SEP-2021
SSO(s): N/A	Estimate Source: Internal MSD	
PSO(s): N/A		

Project Description

Approximately 195 LF of 18-24" combined sewer on Tusculum Ave. at Woodbridge Ave. needs to be rehabilitated or replaced. This consists of two segments of existing sewer. Segment 42201037-42201036 shows clay pipe with fractures and shape loss in excess of the allowable 10% threshold to be a lining candidate. The majority of the pipe segment is approximately 50% full of silt making the CCTV inaccessible at one point. The clay pipe transitions to rectangular stone sewer at structure 42201037 which is a blind junction point that simply marks the material transition point in GIS. Approximately 60 LF of 24x48 stone sewer (42201038-42201037) segment needs to be filled, sealed, and abandoned to prevent further loss of backfill and pipe failure. Laterals for properties 435, 431, and 427 Tusculum along with one storm inlet appear to be the only connections to these pipe segments. The storm connection should be easily relocated.


The scope of this project includes installing 20 LF of 8" diameter sewer to connect the laterals from 427, 431, and 435 Tusculum Avenue to sewer segment 42201013-42201014. Sewer segments 42201038-42201037, 42201037-42201036 and 42201036-42201014 will be filled, sealed and abandoned.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$162,000	\$0	\$0	\$162,000
Design	\$74,000	\$0	\$0	\$0	\$0
Pre-Construction Services	\$12,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$100,000	\$38,900	\$0	\$0	\$38,900
Right-of-Way	\$45,000	\$0	\$0	\$0	\$0
Construction	\$340,000	\$0	\$145,500	\$0	\$145,500
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$42,000	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$613,000	\$200,900	\$145,500	\$0	\$346,400

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$200,900	\$145,500	\$0	\$0	\$0	\$0	\$346,400

Prior Legislation Action
Jan 2020, Dec 2020


Project Phase	Project Schedule						
	Planning	Design	Right of Way	Construction	Substantial Comp.	Closout	Regulatory Compliance
Start Date	04/29/2019	01/04/2021	10/19/2021	06/24/2022		08/25/2023	
End Date	11/02/2020	01/12/2022	10/19/2021	08/25/2023	06/26/2023	08/23/2024	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI		Summerview Low Pressure Forcemain		2022 Capital Budget and Capital Improvement Program	
Project Overview			Modeling Overview		
Project ID: 10272070 Project Type: Sewer WWTP Basin: Little Miami Watershed: Eight Mile Municipality: Anderson Township Neighborhood: Inside Ham Cty/Outside City		WWIP Index #: N/A Project Category: Sanitary Sewer No: 7072		Model Requires Update for Project: No Additional Flow Monitoring Required: No Comment: Project does not require modeling or monitoring	
Benefited CSO(s), SSO(s), PSO(s), Facility			Cost Estimate Information		
CSO(s): N/A SSO(s): N/A PSO(s): N/A			Project Phase: Planning Estimate Source: Internal MSD		Estimate Date: 11-SEP-2020
Project Description					
<p>This project was nominated due to frequent odor complaints. It will extend the existing low pressure force main (LPFM) approximately 330-ft from MII 51701010 to MH 51701005 in Ayers Road. The proposed LPFM drop connection to MH 51701005 will be a drop connection into the gravity flow and minimize odors. The home at 7501 Ayers Road is connected to the gravity line directly downstream of the LPFM. Untreated flow from the LPFM settles in the gravity system and can cause outdoor odors for the homeowners. Extending the LPFM further downstream with a drop connection will effectively minimize odors.</p> <p>A BCE will be developed internally and will evaluate the alternatives to extend the forcemain, replace and extend the forcemain, and to install a chemical feed system to reduce odors in the project area.</p>					

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$50,335	\$50,335	\$0	\$0	\$50,335
Design	\$63,791	\$0	\$63,800	\$0	\$63,800
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$19,000	\$0	\$19,000	\$0	\$19,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$302,645	\$0	\$0	\$303,000	\$303,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$31,475	\$0	\$0	\$31,500	\$31,500
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$467,246	\$50,335	\$82,800	\$334,500	\$467,635

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$50,335	\$82,800	\$334,500	\$0	\$0	\$0	\$467,635


Prior Legislation Action							
Dec 2002							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closout	Regulatory Compliance
Start Date	01/01/2021	01/10/2022	n/a	01/02/2024		07/07/2025	
End Date	04/13/2022	07/19/2023	n/a	07/07/2025	05/05/2025	07/06/2026	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI	Wayside Avenue and Colter Avenue Sewer Improvements	2022 Capital Budget and Capital Improvement Program
		Project Overview
Project ID: 10272075 Project Type: Sewer WWTP Basin: Little Miami Watershed: Clough Municipality: City of Cincinnati Neighborhood: Mt. Washington		WWIP Index #: N/A Project Category: Sanitary Sewer No: 7106
Benefited CSO(s), SSO(s), PSO(s), Facility		Modeling Overview
CSO(s): N/A SSO(s): N/A PSO(s): N/A		Model Requires Update for Project: No Additional Flow Monitoring Required: No Comment: FM to be install before project start, reinstall FM LM-CL-031 and 3 new FM in MH 46916014,6009,6008
Cost Estimate Information		Project Phase: Preplanning Estimate Date: 05-MAR-2021 Estimate Source: Preplanning Cost Estimate
Project Description		
The project is located in Mt Washington, Hamilton County, in the Clough watershed of the Little Miami Basin. This project will replace and upsize approximately 3,000 linear feet of existing sanitary sewer with suspected capacity issues due to reported surcharging by residents. In addition, the project will address inconsistent pipe sizes in the system and eliminate hydraulic bottlenecks in critical areas where capacity is constrained. The area of interest is located west of Sutton Avenue, bounded by Colter Avenue to the south and Wayside Avenue to the north.		

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$122,100	\$0	\$122,100	\$0	\$122,100
Design	\$168,700	\$0	\$0	\$168,700	\$168,700
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$36,000	\$0	\$0	\$36,000	\$36,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$1,349,400	\$0	\$0	\$1,349,400	\$1,349,400
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$140,300	\$0	\$0	\$140,300	\$140,300
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$1,816,500	\$0	\$122,100	\$1,694,400	\$1,816,500

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$0	\$122,100	\$204,700	\$0	\$1,489,700	\$0	\$1,816,500


Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/01/2022	01/16/2023	11/08/2023	06/04/2025		12/05/2026	
End Date	11/30/2022	01/22/2025	11/06/2024	12/04/2026	10/05/2026	12/04/2027	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI	Madison Rd and Edwards Rd Sewer Improvements	2022 Capital Budget and Capital Improvement Program
Project Overview Project ID: 10272080 WWIP Index #: N/A Project Type: Sewer Project Category: WWTP Basin: Little Miami Sanitary Sewer No: 7122 Watershed: Upper Duck Creek Municipality: City of Cincinnati Neighborhood: Hyde Park		Modeling Overview Model Requires Update for Project: No Additional Flow Monitoring Required: No Comment: The model is not calibrated for the project area. The model does not contain all pipes in project.
Benefited CSO(s), SSO(s), PSO(s), Facility CSO(s): N/A SSO(s): N/A PSO(s): N/A	Cost Estimate Information Project Phase: Preplanning Estimate Date: 24-JUN-2021 Estimate Source: Preplanning Cost Estimate	
Project Description The project is located in Hyde Park, Hamilton County, in the Upper Duck Creek watershed of the Little Miami Basin. This Project entails the evaluation of about 4100 linear feet of combined sewer. The purpose of the project is to address the remediation of the 30 existing sewer segments due shape loss, longitudinal and spiral cracking, and are thought to be under capacity by WWC. Several of the sewer segments identified for evaluation currently rank extremely high, high, and medium for risk of failure in MSD's current risk rating system. CIPP replacement or lining of these segments will improve the structural integrity of the pipes, reduce the risk rating, and prolong the useful life of the sewer. However, there are three segments that run under buildings that would potentially need relocated or lined.		

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$196,900	\$0	\$196,900	\$0	\$196,900
Design	\$305,400	\$0	\$0	\$305,400	\$305,400
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$90,700	\$0	\$0	\$90,700	\$90,700
Right-of-Way	\$34,800	\$0	\$0	\$34,800	\$34,800
Construction	\$2,575,225	\$0	\$0	\$2,575,225	\$2,575,225
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$172,300	\$0	\$0	\$172,300	\$172,300
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$3,375,325	\$0	\$196,900	\$3,178,425	\$3,375,325

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$0	\$196,900	\$0	\$430,900	\$0	\$0	\$627,800


Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/01/2022	01/15/2024	10/16/2024	05/11/2027		11/10/2028	
End Date	07/05/2023	12/30/2026	10/15/2026	11/09/2028	09/10/2028	11/09/2029	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI		Hydraulic Modeling 2022		2022 Capital Budget and Capital Improvement Program	
Project Overview			Modeling Overview		
Project ID: 10280242 Project Type: Allowance WWTP Basin: Multiple Watershed: Multiple Municipality: Multiple Neighborhood: Systemwide		WWIP Index #: N/A Project Category: Sanitary Sewer No: 6724		Model Requires Update for Project: N/A Additional Flow Monitoring Required: N/A Comment:	
Benefited CSO(s), SSO(s), PSO(s), Facility			Cost Estimate Information		
CSO(s): N/A SSO(s): N/A PSO(s): N/A			Project Phase: Allowance Estimate Source: N/A		Estimate Date:
Project Description					
Sewer modeling is used to assist in the planning and design process and is required as part of the Global Consent Decree and MSD's CSO NPDES Permit. MSD is committed to ensuring its system wide models meet the latest standards and provides the best available tools for assessing, planning, and designing MSD's infrastructure. This allowance provides hydraulic, hydrologic, and treatment process modeling services to continuously improve the system wide models and the processes, procedures and tools that support it. Modeling services includes the use of field data (flow monitoring) to calibrate or improve sections of the system wide models in advance of project planning as well as incorporating project specific model changes back into the system wide models once the improvements are constructed. Modeling is performed for all regions of the MSD service area.					

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$1,000,000	\$0	\$1,242,000	\$0	\$1,242,000
Design	\$0	\$0	\$0	\$0	\$0
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$0	\$0	\$0	\$0	\$0
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$0
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$1,000,000	\$0	\$1,242,000	\$0	\$1,242,000

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$0	\$1,242,000	\$0	\$0	\$0	\$0	\$1,242,000


Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/01/2022	n/a	n/a	n/a		n/a	
End Date	12/31/2022	n/a	n/a	n/a		n/a	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI	Critical Asset Management Projects 2022	2022 Capital Budget and Capital Improvement Program																	
		<table border="1"> <tr> <th colspan="2">Project Overview</th> <th>Modeling Overview</th> </tr> <tr> <td> Project ID: 10280722 Project Type: Allowance WWTP Basin: Multiple Watershed: Multiple Municipality: Multiple Neighborhood: Systemwide </td> <td> WWIP Index #: N/A Project Category: Sanitary Sewer No: 6722 </td> <td> Model Requires Update for Project: N/A Additional Flow Monitoring Required: N/A Comment: </td> </tr> <tr> <th colspan="2">Benefited CSO(s), SSO(s), PSO(s), Facility</th> <th>Cost Estimate Information</th> </tr> <tr> <td colspan="2"> CSO(s): N/A SSO(s): N/A PSO(s): N/A </td> <td> Project Phase: Allowance Estimate Source: N/A Estimate Date: </td> </tr> <tr> <th colspan="3">Project Description</th> </tr> <tr> <td colspan="3"> This allowance provides capital resources to address a risk-based prioritized wastewater treatment expenditure that are critical to sustain operational, regulatory, and safety expected performance levels. Expenditures are identified, planned, prioritized, and executed within the allowance annual budget. </td> </tr> </table>		Project Overview		Modeling Overview	Project ID: 10280722 Project Type: Allowance WWTP Basin: Multiple Watershed: Multiple Municipality: Multiple Neighborhood: Systemwide	WWIP Index #: N/A Project Category: Sanitary Sewer No: 6722	Model Requires Update for Project: N/A Additional Flow Monitoring Required: N/A Comment:	Benefited CSO(s), SSO(s), PSO(s), Facility		Cost Estimate Information	CSO(s): N/A SSO(s): N/A PSO(s): N/A		Project Phase: Allowance Estimate Source: N/A Estimate Date:	Project Description			This allowance provides capital resources to address a risk-based prioritized wastewater treatment expenditure that are critical to sustain operational, regulatory, and safety expected performance levels. Expenditures are identified, planned, prioritized, and executed within the allowance annual budget.
Project Overview		Modeling Overview																	
Project ID: 10280722 Project Type: Allowance WWTP Basin: Multiple Watershed: Multiple Municipality: Multiple Neighborhood: Systemwide	WWIP Index #: N/A Project Category: Sanitary Sewer No: 6722	Model Requires Update for Project: N/A Additional Flow Monitoring Required: N/A Comment:																	
Benefited CSO(s), SSO(s), PSO(s), Facility		Cost Estimate Information																	
CSO(s): N/A SSO(s): N/A PSO(s): N/A		Project Phase: Allowance Estimate Source: N/A Estimate Date:																	
Project Description																			
This allowance provides capital resources to address a risk-based prioritized wastewater treatment expenditure that are critical to sustain operational, regulatory, and safety expected performance levels. Expenditures are identified, planned, prioritized, and executed within the allowance annual budget.																			

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$0	\$0	\$0	\$0
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$0	\$0	\$0	\$0	\$0
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$2,500,000	\$0	\$6,210,000	\$0	\$6,210,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$2,500,000	\$0	\$6,210,000	\$0	\$6,210,000

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$0	\$6,210,000	\$0	\$0	\$0	\$0	\$6,210,000


Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	n/a	n/a	n/a	01/03/2022		n/a	
End Date	n/a	n/a	n/a	12/30/2022		n/a	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI		Prioritized Wastewater Collection System Improvements 2022		2022 Capital Budget and Capital Improvement Program	
Project Overview			Modeling Overview		
Project ID: 10281322 Project Type: Allowance WWTP Basin: System Wide Watershed: Multiple Municipality: Multiple Neighborhood: Systemwide		WWIP Index #: N/A Project Category: Sanitary Sewer No: 6723		Model Requires Update for Project: N/A Additional Flow Monitoring Required: N/A Comment:	
Benefited CSO(s), SSO(s), PSO(s), Facility			Cost Estimate Information		
CSO(s): N/A SSO(s): N/A PSO(s): N/A			Project Phase: Allowance Estimate Source: N/A		Estimate Date:
Project Description					
This allowance is intended to repair and renew failed and or structurally deteriorated sewer segments by responding to sudden, unexpected system failures, completing planned repairs and improvements to high-risk utility-owned assets, to remedy structurally failed privately-owned active building sewers located within the right-of-way, and making prioritized system improvements through construction coordination of projects. Collectively, this operational strategy will assist in achieving and maintaining acceptable levels of service at the lowest life-cycle cost.					

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$0	\$0	\$0	\$0
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$0	\$0	\$0	\$0	\$0
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$10,000,000	\$0	\$16,666,667	\$0	\$16,666,667
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$2,000,000	\$0	\$3,333,333	\$0	\$3,333,333
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$12,000,000	\$0	\$20,000,000	\$0	\$20,000,000

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$0	\$20,000,000	\$0	\$0	\$0	\$0	\$20,000,000


Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	n/a	n/a	n/a	01/01/2022		n/a	
End Date	n/a	n/a	n/a	12/31/2022		n/a	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI		CIP Planning Projects 2022		2022 Capital Budget and Capital Improvement Program	
Project Overview			Modeling Overview		
Project ID: 10282022 Project Type: Allowance WWTP Basin: Multiple Watershed: Multiple Municipality: Multiple Neighborhood: Systemwide		WWIP Index #: N/A Project Category: Sanitary Sewer No: 6726		Model Requires Update for Project: N/A Additional Flow Monitoring Required: N/A Comment:	
Benefited CSO(s), SSO(s), PSO(s), Facility			Cost Estimate Information		
CSO(s): N/A SSO(s): N/A PSO(s): N/A			Project Phase: Allowance Estimate Date: Estimate Source: Original Project Planning Esti		
Project Description					
This project provides appropriated funds for the resources necessary for the planning of capital projects for advancement to the design phase.					

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$3,400,000	\$0	\$2,173,500	\$0	\$2,173,500
Design	\$0	\$0	\$0	\$0	\$0
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$0	\$0	\$0	\$0	\$0
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$0
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$3,400,000	\$0	\$2,173,500	\$0	\$2,173,500

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$0	\$2,173,500	\$0	\$0	\$0	\$0	\$2,173,500

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/01/2022	n/a	n/a	n/a		n/a	
End Date	12/31/2022	n/a	n/a	n/a		n/a	n/a

 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI	<h2 style="margin:0;">Flow Monitoring 2022</h2>	<h2 style="margin:0;">2022 Capital Budget and Capital Improvement Program</h2>
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Project Overview	Modelling Overview
Project ID: 10282422 Project Type: Allowance WWTP Basin: System Wide Watershed: Multiple Municipality: System Wide Neighborhood: Systemwide	WWIP Index #: N/A Project Category: Sanitary Sewer No: 7124 Model Requires Update for Project: N/A Additional Flow Monitoring Required: N/A Comment:

Benefited CSO(s), SSO(s), PSO(s), Facility	Cost Estimate Information
CSO(s): N/A SSO(s): N/A PSO(s): N/A	Project Phase: Estimate Source: Estimate Date:

Project Description

Flow monitoring is an essential activity for the improvement of the district's hydraulic models and in the development of capital projects. Flow monitoring is the action of collecting data from the field regarding the hydraulic conditions in the collection system, which is then used to calibrate or improve sections of the system wide models so that the models can support alternative analysis and project planning. The timing and duration of monitoring depends on the use of the data but must be at least one full year for projects seeking wet weather solutions or improving the system wide model. Small projects in separated areas may not require a full year. Meters are deployed in all regions of the MSD service area, as needed, to support specific project needs.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$960,000	\$0	\$960,000	\$0	\$960,000
Design	\$0	\$0	\$0	\$0	\$0
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$0	\$0	\$0	\$0	\$0
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$0
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$960,000	\$0	\$960,000	\$0	\$960,000

5 Year Projected Legislation						
Prior Legislation	2022	2023	2024	2025	2026	Project Total
\$0	\$960,000	\$0	\$0	\$0	\$0	\$960,000

Prior Legislation Action

Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/01/2022	n/a	n/a	n/a	n/a	n/a	n/a
End Date	12/31/2022	n/a	n/a	n/a	n/a	n/a	n/a



2023 CIP

Metropolitan Sewer District of Greater Cincinnati

Project ID	Project Type	Project Name	MSD	Other	Total
10130161	PS	Muddy Creek PSU & Force Main (Design)	\$1,696,600	\$0	\$1,696,600
10130280	PS	Addyston Pump Station Elimination (Design,Easement)	\$593,900	\$0	\$593,900
10172095	SWR	CSO 182 Strategic Sewer Separation (Design,Easement)	\$944,700	\$0	\$944,700
10172910	FAC	LMWWTP High Rate Treatment Facility (Planning)	\$500,000	\$0	\$500,000
10172940	SRC	M1 Washington Source Control Implementation (Construction)	\$9,708,000	\$0	\$9,708,000
10180123	ALW	Main Sewer Renewal Program 2023 (Construction)	\$6,437,350	\$0	\$6,437,350
10180223	ALW	Manhole Renewal Program 2023 (Construction)	\$1,042,601	\$0	\$1,042,601
10190223	ALW	Phase 2 WWTP Planning 2023 (Planning)	\$2,678,063	\$0	\$2,678,063
10230130	SWR	Dry Weather Channel for SS 937 (Construction)	\$4,460,000	\$0	\$4,460,000
10240275	SWR	SSO 603 and 704 Improvements (Construction)	\$3,660,000	\$0	\$3,660,000



2023 CIP

Metropolitan Sewer District of Greater Cincinnati

Project ID	Project Type	Project Name	MSD	Other	Total
10199023	ALW	Program Management and Support Services 2023 (Design)	\$7,144,250	\$0	\$7,144,250
10199123	ALW	Hamilton County Utility Oversight and Coordination 2023 (Design)	\$4,713,390	\$0	\$4,713,390
13090000	CON	Programmatic Contingency (Design)	\$5,000,000	\$0	\$5,000,000
13099999	ALW	MSD LABOR (Design)	\$5,500,000	\$0	\$5,500,000



2023 CIP

Metropolitan Sewer District of Greater Cincinnati

Project ID	Project Type	Project Name	MSD	Other	Total
10142420	SWR	Vinc Street at Erkenbrecher Avenue Sewer Separation (Design,Easement)	\$3,450,000	\$0	\$3,450,000
10222005	PS	Colcrain-Bevis Pump Station Replacement (Design,Easement)	\$1,935,000	\$0	\$1,935,000
10222010	FAC	TCWWTP Aeration Basin Conversion (Design)	\$780,000	\$0	\$780,000
10230045	SWR	Stonebridge Relief Sewer (Construction)	\$3,355,600	\$0	\$3,355,600
10230090	PS	Barrington Hills, Barrington Hills BLK. F, Gil Volz, and Kirkridge Acres P.S. Eliminations (Construction)	\$8,222,400	\$0	\$8,222,400
10230160	SWR	Glenway Avenue at Parkcrest Lane Sewer (Planning)	\$83,000	\$0	\$83,000
10230655	SWR	Muddy Creek Road and Roscbud Drive Sewer Replacement (Design,Easement)	\$300,000	\$0	\$300,000
10232025	SWR	3731 Glenmore Avenue Sewer Evaluation (Design)	\$154,000	\$0	\$154,000
10232035	SWR	CSO 541 Outfall Replacement (Design,Easement)	\$201,800	\$0	\$201,800
10240320	SWR	Wilder Avenue Sewer Replacement (Construction)	\$679,700	\$0	\$679,700
10240330	SWR	Otte Avenue Sewer Replacement (Construction)	\$797,600	\$0	\$797,600
10240495	SWR	Wahl Terrace Sewer Replacement (Construction)	\$658,400	\$0	\$658,400
10240500	SWR	Yeast Avenue Sewer Improvements (Construction)	\$102,900	\$0	\$102,900
10240545	SWR	Central Parkway Sewer Replacement (HN 2402) (Construction)	\$444,000	\$0	\$444,000
10240735	SWR	De Votie Avenue Sewer Replacement (Construction)	\$660,000	\$0	\$660,000
10240765	SWR	Fyffe Avenue Sewer (Planning)	\$76,000	\$0	\$76,000
10240785	SWR	Clifton Avenue from MLK to Howell Sewer Replacement (Design,Easement)	\$746,000	\$0	\$746,000
10240795	SWR	Central to McMicken at Stark St Sewer Replacement (Design,Easement)	\$442,200	\$0	\$442,200
10240815	SWR	150 Caldwell Drive Sewer (Planning)	\$39,000	\$0	\$39,000
10240835	SWR	CSO 488 Access Lane (Construction)	\$68,000	\$0	\$68,000
10240845	SWR	Taft Road & McMillan Street Sewer Replacement (Design,Easement)	\$3,052,500	\$0	\$3,052,500
10240875	SWR	Ledgewood Ave Sewer Replacement (Design,Easement)	\$1,100,000	\$0	\$1,100,000
10241905	SRC	Congress Run Stream Restoration and Bank Stabilization (Design)	\$296,000	\$0	\$296,000



2023 CIP

Metropolitan Sewer District of Greater Cincinnati

Project ID	Project Type	Project Name	MSD	Other	Total
10242050	SWR	Glenmary Ave and Vine Street Sewer Improvements (Planning)	\$300,000	\$0	\$300,000
10242055	SWR	Queen City Avenue (HN 2047) Sewer Rehabilitation (Design,Easement)	\$358,000	\$0	\$358,000
10242115	SWR	Central Avenue (HN 1964) Sewer (Design,Easement)	\$183,500	\$0	\$183,500
10242120	SWR	Elberon Avenue Sewer (Design,Easement)	\$390,000	\$0	\$390,000
10242125	SWR	Sycamore Street Sewer (Design,Easement)	\$825,000	\$0	\$825,000
10242130	FAC	MCWWTP Primary Settling Electrical Equipment Replacement (Planning)	\$120,000	\$0	\$120,000
10242140	FAC	MCWWTP Dewatering Building Odor Control (Construction)	\$2,442,600	\$0	\$2,442,600
10242155	SWR	Morrison Avenue Sewer Replacement (Planning)	\$140,000	\$0	\$140,000
10242180	SWR	Winton Lake Aerial Sewer Structure and Weir Modifications (Planning)	\$20,000	\$0	\$20,000
10242185	SWR	Anthony and Innes Avenues (Planning)	\$100,000	\$0	\$100,000
10252020	FAC	PRWWTP Sludge Storage Tank with Odor Control (Construction)	\$8,875,700	\$0	\$8,875,700
10252025	FAC	PRWWTP Screening Grit Renewal (Planning)	\$458,800	\$0	\$458,800
10262015	FAC	SCWWTP Clarifiers (Design)	\$394,500	\$0	\$394,500
10270007	SWR	Dry Run Area Sewers Phase 2 Contract RB (Design,Construction)	\$6,684,500	\$0	\$6,684,500
10270110	SWR	Linwood Avenue Sewer Replacement (Construction)	\$799,500	\$0	\$799,500
10270155	SWR	Paxton Avenue Sewer Rehabilitation (Design,Easement)	\$239,400	\$0	\$239,400
10270165	SWR	Delta and Greist Sewer Replacement (Construction)	\$683,437	\$0	\$683,437
10270175	SWR	East Hill Ave Sewer Replacement (Construction)	\$1,765,728	\$0	\$1,765,728
10270225	SWR	Elsmere Avenue from Slane to Lafayette Sewer Replacement (Design,Easement)	\$1,104,000	\$0	\$1,104,000
10272045	SWR	Celeron Avenue Sewer Rehabilitation (Planning)	\$150,000	\$0	\$150,000
10272050	PS	Wayside Hills Pump Station (Design,Easement)	\$642,500	\$0	\$642,500
10272065	FAC	LMWWTP Flow Meter Renewal (Construction)	\$7,041,900	\$0	\$7,041,900
10272070	SWR	Summerview Low Pressure Forcemain (Construction)	\$334,500	\$0	\$334,500
10272075	SWR	Wayside Avenue and Colter Avenue Sewer Improvements (Design)	\$204,700	\$0	\$204,700
10280243	ALW	Hydraulic Modeling 2023 (Planning)	\$1,285,470	\$0	\$1,285,470



2023 CIP

Metropolitan Sewer District of Greater Cincinnati

Project ID	Project Type	Project Name	MSD	Other	Total
10280723	ALW	Critical Asset Management Projects 2023 (Construction)	\$6,427,350	\$0	\$6,427,350
10281323	ALW	Prioritized Wastewater Collection System Improvements 2023 (Construction)	\$20,700,000	\$0	\$20,700,000
10282023	ALW	CIP Planning Projects 2023 (Planning)	\$2,249,573	\$0	\$2,249,573
10282423	ALW	Flow Monitoring 2023 (Planning)	\$993,600	\$0	\$993,600
10630000	SRC	Muddy Creek FEMA Property Acquisition & Floodplain Reconfiguration (Construction)	\$500,000	\$0	\$500,000
Grand Totals for 67 Projects In 2023			\$148,137,212	\$0	\$148,137,212



2024 CIP

Metropolitan Sewer District of Greater Cincinnati

Project ID	Project Type	Project Name	MSD	Other	Total
10144889	FAC	Mill Creek WWTP HRT Facility (Design)	\$13,980,000	\$0	\$13,980,000
10172910	FAC	LMWWTP High Rate Treatment Facility (Design,Easement)	\$12,591,000	\$0	\$12,591,000
10172935	FAC	LMWWTP Little Miami Pump Station Improvements (Planning)	\$971,000	\$0	\$971,000
10180124	ALW	Main Sewer Renewal Program 2024 (Construction)	\$6,652,307	\$0	\$6,652,307
10180224	ALW	Manhole Renewal Program 2024 (Construction)	\$1,079,083	\$0	\$1,079,083
10190224	ALW	Phase 2 WWIP Planning 2024 (Planning)	\$2,771,795	\$0	\$2,771,795
10230130	SWR	Dry Weather Channel for SS 937 (Design)	\$616,500	\$0	\$616,500
10240640	FAC	MCWWTP Dewatering Building Improvements (Planning)	\$2,520,000	\$0	\$2,520,000
10281100	FAC	LMWWTP Solids Disposal With Odor Control (Construction)	\$150,000,000	\$0	\$150,000,000



2024 CIP

Metropolitan Sewer District of Greater Cincinnati

Project ID	Project Type	Project Name	MSD	Other	Total
10199024	ALW	Program Management and Support Services 2024 (Design)	\$7,322,856	\$0	\$7,322,856
10199124	ALW	Hamilton County Utility Oversight and Coordination 2024 (Design)	\$4,878,359	\$0	\$4,878,359
13090000	CON	Programmatic Contingency (Design)	\$5,000,000	\$0	\$5,000,000
13099999	ALW	MSD LABOR (Design)	\$5,500,000	\$0	\$5,500,000



2024 CIP

Metropolitan Sewer District of Greater Cincinnati

Project ID	Project Type	Project Name	MSD	Other	Total
10222010	FAC	TCWWTP Aeration Basin Couversion (Construction)	\$3,490,000	\$0	\$3,490,000
10230150	SWR	Addyston Creek and Sewer Rehab (Construction)	\$477,000	\$0	\$477,000
10230160	SWR	Glenway Avenue at Parkcrest Lane Sewer (Design,Easement)	\$320,000	\$0	\$320,000
10230170	SWR	Harrison Avenue North and South Hydraulic Improvements (Design,Easement)	\$955,000	\$0	\$955,000
10232005	SWR	Benz Avenue (HN 1111) Sewer Replacement (Design,Easement)	\$161,000	\$0	\$161,000
10240271	SWR	Lower Mill Creek HW DW Protection (Construction)	\$1,392,000	\$0	\$1,392,000
10240445	SWR	Colton Lane Sewer Replacement (Construction)	\$344,200	\$0	\$344,200
10240560	SWR	Schulte Drive Sewer Replacement (Construction)	\$485,600	\$0	\$485,600
10240755	SWR	Victory Parkway at Ledgewood Drive Sewer Replacement (Construction)	\$960,000	\$0	\$960,000
10240760	SWR	Highland and Burnet Sewer Replacement (Construction)	\$195,500	\$0	\$195,500
10240790	SWR	Clifton Avenue at Parker Street Sewer Replacement (Planning)	\$370,000	\$0	\$370,000
10240815	SWR	150 Caldwell Drive Sewer (Design,Easement)	\$93,000	\$0	\$93,000
10240820	SWR	Reading Road at Stewart Place Sewer Replacement (Construction)	\$499,800	\$0	\$499,800
10240855	SWR	Connecticut Avenue Sewer Replacement (Construction)	\$3,071,400	\$0	\$3,071,400
10241905	SRC	Congress Run Stream Restoration and Bank Stabilization (Construction)	\$2,217,000	\$0	\$2,217,000
10242035	SWR	Reading Road - 12th Street to E Liberty Street Sewer Replacement (Construction)	\$1,347,200	\$0	\$1,347,200
10242050	SWR	Glenmary Ave and Vine Street Sewer Improvements (Design,Easement)	\$1,872,500	\$0	\$1,872,500
10242080	SWR	Fenton Avenue (HN 1336) Sewer Relocation (Design,Easement)	\$435,000	\$0	\$435,000
10242090	SWR	Donna Lane & Ester Marie Drive Sewer Relocation and Rehab (Design,Easement)	\$295,000	\$0	\$295,000
10242105	SWR	Loth Street (HN 2272) Sewer Relocation and Rehab (Design,Easement)	\$732,000	\$0	\$732,000
10242110	SWR	Central Avenue and W 9th Street Sewer (Design,Easement)	\$555,000	\$0	\$555,000
10242130	FAC	MCWWTP Primary Settling Electrical Equipment Replacement (Design)	\$280,000	\$0	\$280,000



2024 CIP

Metropolitan Sewer District of Greater Cincinnati

Project ID	Project Type	Project Name	MSD	Other	Total
10242135	SWR	Mill Creek Interceptors Rehabilitation (Construction)	\$4,300,000	\$0	\$4,300,000
10242150	FAC	Daly Road Treatment Facility Modifications (Construction)	\$581,633	\$0	\$581,633
10242180	SWR	Winton Lake Aerial Sewer Structure and Weir Modifications (Design)	\$30,000	\$0	\$30,000
10242185	SWR	Anthony and Innes Avenues (Design,Easement)	\$265,000	\$0	\$265,000
10252025	FAC	PRWWTP Screening Grit Renewal (Design)	\$855,300	\$0	\$855,300
10262015	FAC	SCWWTP Clarifiers (Construction)	\$4,005,100	\$0	\$4,005,100
10270026	PS	Camargo Canyon Pump Station Elimination (Construction)	\$1,178,400	\$0	\$1,178,400
10272025	SWR	Wasson Ravine Sewer Replacement (Construction)	\$2,115,000	\$0	\$2,115,000
10272080	SWR	Madison Rd and Edwards Rd Sewer Improvements (Design,Easement)	\$430,900	\$0	\$430,900
10280244	ALW	Hydraulic Modeling 2024 (Planning)	\$1,330,461	\$0	\$1,330,461
10280724	ALW	Critical Asset Management Projects 2024 (Construction)	\$6,652,307	\$0	\$6,652,307
10281324	ALW	Prioritized Wastewater Collection System Improvements 2024 (Construction)	\$21,424,500	\$0	\$21,424,500
10282024	ALW	CIP Planning Projects 2024 (Planning)	\$2,328,308	\$0	\$2,328,308
10282424	ALW	Flow Monitoring 2024 (Planning)	\$1,028,376	\$0	\$1,028,376
Grand Totals for 49 Projects in 2024			\$280,956,385	\$0	\$280,956,385



2025 CIP

Metropolitan Sewer District of Greater Cincinnati

Project ID	Project Type	Project Name	MSD	Other	Total
10172935	FAC	LMWWTP Little Miami Pump Station Improvements (Design)	\$2,900,000	\$0	\$2,900,000
10180125	ALW	Main Sewer Renewal Program 2025 (Construction)	\$6,885,138	\$0	\$6,885,138
10180225	ALW	Manhole Renewal Program 2025 (Construction)	\$1,116,840	\$0	\$1,116,840
10190225	ALW	Phase 2 WWIP Planning 2025 (Planning)	\$2,868,808	\$0	\$2,868,808
10240426	PS	Pleasant Run Pump Station Upgrades (Construction)	\$35,944,000	\$0	\$35,944,000
10240640	FAC	MCWWTP Dewatering Building Improvements (Design)	\$8,060,000	\$0	\$8,060,000



2025 CIP

Metropolitan Sewer District of Greater Cincinnati

Project ID	Project Type	Project Name	MSD	Other	Total
10199025	ALW	Program Management and Support Services 2025 (Design)	\$7,505,928	\$0	\$7,505,928
10199125	ALW	Hamilton County Utility Oversight and Coordination 2025 (Design)	\$5,049,101	\$0	\$5,049,101
13090000	CON	Programmatic Contingency (Design)	\$5,000,000	\$0	\$5,000,000
13099999	ALW	MSD LABOR (Design)	\$5,500,000	\$0	\$5,500,000



2025 CIP

Metropolitan Sewer District of Greater Cincinnati

Project ID	Project Type	Project Name	MSD	Other	Total
10232030	PS	Rapid Run and Foley Road PS Receiver Manhole Installation (Construction)	\$274,900	\$0	\$274,900
10240200	SWR	Harvey Ave-Hickman Ave Sewer Replacement (Construction)	\$1,440,000	\$0	\$1,440,000
10240525	SWR	Victory Parkway Sewer Rehabilitation (Construction)	\$1,949,000	\$0	\$1,949,000
10240720	SWR	Valleyview Court Sewer Replacement (Construction)	\$848,200	\$0	\$848,200
10240725	SWR	Shaffer Avenue Sewer Replacement (Construction)	\$944,200	\$0	\$944,200
10240735	SWR	De Votie Avenue Sewer Replacement (Construction)	\$740,000	\$0	\$740,000
10240740	SWR	Tennessee Avenue (HN 1754) Sewer Replacement (Construction)	\$320,000	\$0	\$320,000
10240765	SWR	Fyffe Avenue Sewer (Design,Easement)	\$264,000	\$0	\$264,000
10240775	SWR	Gilbert Avenue at Casino Sewer Replacement (Construction)	\$4,924,700	\$0	\$4,924,700
10240780	SWR	Galbraith Rd to Sheldon Avenue Sewer Replacement (Construction)	\$462,700	\$0	\$462,700
10240790	SWR	Clifton Avenue at Parker Street Sewer Replacement (Design,Easement)	\$2,340,000	\$0	\$2,340,000
10240810	SWR	Overlook Avenue near Glenway Ave Sewer Replacement (Construction)	\$915,000	\$0	\$915,000
10240845	SWR	Taft Road & McMillan Street Sewer Replacement (Construction)	\$8,130,000	\$0	\$8,130,000
10240870	SWR	911 McPherson Avenue Sewer Replacement (Construction)	\$1,024,000	\$0	\$1,024,000
10242025	SWR	Davey Avenue to Hamilton Avenue Sewer Replacement (Construction)	\$513,100	\$0	\$513,100
10242030	SWR	Dorchester Avenue at Highland Avenue Sewer Replacement (Construction)	\$606,000	\$0	\$606,000
10242085	PS	Village Woods Pump Station and System Improvements (Construction)	\$524,000	\$0	\$524,000
10242130	FAC	MCWWTP Primary Settling Electrical Equipment Replacement (Construction)	\$1,030,000	\$0	\$1,030,000
10242155	SWR	Morrison Avenue Sewer Replacement (Design,Easement)	\$590,000	\$0	\$590,000
10242180	SWR	Winton Lake Aerial Sewer Structure and Weir Modifications (Construction)	\$55,000	\$0	\$55,000
10252025	FAC	PRWWTP Screening Grit Renewal (Construction)	\$11,651,100	\$0	\$11,651,100
10262010	FAC	SCWWTP UV Replacement (Design)	\$230,000	\$0	\$230,000
10272045	SWR	Celeron Avenue Sewer Rehabilitation (Design,Easement)	\$735,000	\$0	\$735,000



2025 CIP
Metropolitan Sewer District of Greater Cincinnati

Project ID	Project Type	Project Name	MSD	Other	Total
10272075	SWR	Wayside Avenue and Colter Avenue Sewer Improvements (Construction)	\$1,489,700	\$0	\$1,489,700
10280245	ALW	Hydraulic Modeling 2025 (Planning)	\$1,377,028	\$0	\$1,377,028
10280725	ALW	Critical Asset Management Projects 2025 (Construction)	\$6,885,138	\$0	\$6,885,138
10281325	ALW	Prioritized Wastewater Collection System Improvements 2025 (Construction)	\$22,174,358	\$0	\$22,174,358
10282025	ALW	CIP Planning Projects 2025 (Planning)	\$2,409,798	\$0	\$2,409,798
10282425	ALW	Flow Monitoring 2025 (Planning)	\$1,064,369	\$0	\$1,064,369
Grand Totals for 39 Projects in 2025			\$156,741,106	\$0	\$156,741,106



2026 CIP

Metropolitan Sewer District of Greater Cincinnati

Project ID	CIP Type	Project Type	Project Name	MSD	Other	Total
10144888		FAC	MCWWTP High Rate Treatment Pump Station (Construction)	\$121,000,000	\$0	\$121,000,000
10172095		SWR	CSO 182 Strategic Sewer Separation (Construction)	\$5,415,223	\$0	\$5,415,223
10172920		FAC	LMWWTP Primary Treatment & Disinfection Improvements (Design)	\$1,680,000	\$0	\$1,680,000
10180126		ALW	Main Sewer Renewal Program 2026 (Construction)	\$7,126,118	\$0	\$7,126,118
10180226		ALW	Manhole Renewal Program 2026 (Construction)	\$1,155,619	\$0	\$1,155,619
10190226		ALW	Phase 2 WWIP Planning 2026 (Planning)	\$2,969,216	\$0	\$2,969,216



2026 CIP

Metropolitan Sewer District of Greater Cincinnati

Project ID.	Project Type	Project Name	MSD	Other	Total
10199026	ALW	Program Management and Support Services 2026 (Design)	\$7,693,576	\$0	\$7,693,576
10199126	ALW	Hamilton County Utility Oversight and Coordination 2026 (Design)	\$5,225,820	\$0	\$5,225,820
13090000	CON	Programmatic Contingency (Design)	\$5,000,000	\$0	\$5,000,000
13099999	ALW	MSD LABOR (Design)	\$5,500,000	\$0	\$5,500,000



2026 CIP

Metropolitan Sewer District of Greater Cincinnati

Project ID	Project Type	Project Name	MSD	Other	Total
10222005	PS	Colerain-Bevis Pump Station Replacement (Construction)	\$4,750,000	\$0	\$4,750,000
10230655	SWR	Muddy Creek Road and Rosebud Drive Sewer Replacement (Construction)	\$452,000	\$0	\$452,000
10232025	SWR	3731 Glenmore Avenue Sewer Evaluation (Construction)	\$380,000	\$0	\$380,000
10232035	SWR	CSO 541 Outfall Replacement (Construction)	\$995,100	\$0	\$995,100
10240650	SWR	Hackberry Street Sewer Replacement (Construction)	\$112,000	\$0	\$112,000
10240785	SWR	Clifton Avenue from MLK to Howell Sewer Replacement (Construction)	\$3,220,000	\$0	\$3,220,000
10240795	SWR	Central to McMicken at Stark St Sewer Replacement (Construction)	\$1,712,900	\$0	\$1,712,900
10240875	SWR	Ledgewood Ave Sewer Replacement (Construction)	\$2,460,000	\$0	\$2,460,000
10242055	SWR	Queen City Avenue (HN 2047) Sewer Rehabilitation (Construction)	\$158,000	\$0	\$158,000
10242115	SWR	Central Avenue (HN 1964) Sewer (Construction)	\$215,000	\$0	\$215,000
10242120	SWR	Elberon Avenue Sewer (Construction)	\$1,010,000	\$0	\$1,010,000
10242125	SWR	Sycamore Street Sewer (Construction)	\$1,930,000	\$0	\$1,930,000
10262010	FAC	SCWWTP UV Replacement (Construction)	\$2,600,000	\$0	\$2,600,000
10270155	SWR	Paxton Avenue Sewer Rehabilitation (Construction)	\$2,851,000	\$0	\$2,851,000
10270225	SWR	Elsmere Avenue from Siane to Lafayette Sewer Replacement (Construction)	\$8,222,300	\$0	\$8,222,300
10272050	PS	Wayside Hills Pump Station (Construction)	\$1,470,000	\$0	\$1,470,000
10280246	ALW	Hydraulic Modeling 2026 (Planning)	\$1,425,224	\$0	\$1,425,224
10280726	ALW	Critical Asset Management Projects 2026 (Construction)	\$7,126,118	\$0	\$7,126,118
10281326	ALW	Prioritized Wastewater Collection System Improvements 2026 (Construction)	\$22,950,460	\$0	\$22,950,460
10282026	ALW	CIP Planning Projects 2026 (Planning)	\$2,494,141	\$0	\$2,494,141
10282426	ALW	Flow Monitoring 2026 (Planning)	\$1,101,622	\$0	\$1,101,622
Grand Totals for 31 Projects in 2026			\$230,401,437	\$0	\$230,401,437