2021-2025 METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI CAPITAL IMPROVEMENT PROGRAM (CIP) BUDGET REQUEST

December 15, 2020

Metropolitan Sewer District of Greater Cincinnati Capital Budget and Capital Improvement Program Year 2021

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Glossary of Terms

Abbreviation Description

ALW	Allowance
BOCC	Board of County Commissioners, Hamilton County, OH
CDOTE	Cincinnati Department of Transporation & Engineering
CEHRT	Chemically Enhanced High Rate Treatment
CIP	Capital Improvement
CSO	Combined Sewer Overflow; discharge from a combined sewer collection system.
EPA	Environmental Protection Agency
ESP	Early Success Project
FAC	Treatment Facility
HA	Highly Active SSOs (HASSOs)
HNS	Home Numbers
HSTS	Home Sewage Treatment Systems
HW/DW	High Water, Dry Weather, referes 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 Systems
LAT	Lateral Sewer
LMCPR	Lower Mill Creek Partial Remedy
LOC	Local Sewer
MGD	Million Gallons per Day
MSD	Metropolitan Sewer District
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
PRG	Program Contingency
PSE	Pump Station Improvement Elimination
PSO	Pump Station Overflow
RDI/I	Rainfall Derived Infiltration Inflow (IL), extraneous sources of storm ground water into a sanitary sewer system
REG	Regulator Improvement
REM	Sewer Backup Remediation
REP	Sewer Replacement
SBU	Sewer Back Up (aka WIB Water-In-Basement)
SCADA	Supervisory Control and Data Acquisition
SEP	Sewer Separation
SEW	New Sewer
SRC	Source Control
SSO	Sanitary Sewer Overflow; discharge from a separate sanitary sewer
STY	Study
SUP	Supplemental Environmental Project
TUN	Tunnel
USEPA	United States Environmental Protection Agency
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 Financial Analysis Manual:

a. Escalation = 3.5% b. Inflation = 2.1% c. Labor Inflation = 3.0%

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 2021 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 management, construction inspection, field engineering, and other project-related personnel costs.

2021 - 2025 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 2020. 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.



Metropolitan Sewer District of Greater Cincinnati

Planning/Design/Easement Funding Request (Exhibit A)

	Project No	CIP Type	Project Type	Project Name	P/D/E Funds Requested
10110417WWIPALWWWIP Phase 1 Construction Compliance Assurance (Design)\$4,222,0001014488WWIPALWPhase 2 WWIP Planning 2021 (Planning)\$2,500,00010190221WWIPALWPhase 2 WWIP Planning 2021 (Planning)\$2,500,00010230140WWIPSEPAddyston Extraneous Stormwater Removal\$814,70010230141WWIPSEPAddyston Extraneous Stormwater Removal\$814,90011142741WWIPSEPCSO 488 490 1-75 Reconstruction Coordination (Design)\$66,00010199021OTHERALWProgram Management and Support Services 2021 (Design)\$66,00010199021OTHERALWHamilton County Utility Oversight and Coordination 2021 (Design)\$6,800,000101042420ASSETSEPVine Street at Erkenbrecher Avenue Sewer Separation (Planning)\$75,00010222015ASSETPSEStratford Lake Force Main Renewal (Planning)\$75,00010230150ASSETREPAddyston Creek and Sewer Rehab (Cesign)\$52,00010240020ASSETREPAddyston Creek and Sewer Rehab (Cesign, Lasement)\$74,55010240705ASSETREPHarvey Ave-Hickman Ave Sewer Replacement (Design, Lasement)\$252,00010240705ASSETREPHighland and Burnet Sewer Replacement (Design, Lasement)\$74,55010240760ASSETREPHighland and Burnet Sewer Replacement (Design, Lasement)\$20,00010240825ASSETREPTait Road & McMillan Street Sewer Replacement\$366,000 <tr< td=""><td>10130161</td><td>WWIP</td><td>PSE</td><td>Muddy Creek PSU & Force Main (Planning)</td><td>\$550,000</td></tr<>	10130161	WWIP	PSE	Muddy Creek PSU & Force Main (Planning)	\$550,000
	10130280	WWIP	PSE	Addyston Pump Station Elimination (Planning)	\$159,382
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(Planning)\$166,00010242025ASSETREPDavey Avenue to Hamilton Avenue Sewer Replacement (Design,Easement)\$330,50010242035ASSETREPReading Road - 12th Street to E Liberty Street Sewer Replacement (Design,Easement)\$438,40010242085ASSETPSEVillage Woods Pump Station and System Improvements (Design,Easement)\$166,00010242120ASSETREPElberon Avenue Sewer (Planning)\$166,00010242125ASSETREPElberon Avenue Sewer (Planning)\$120,00010242125ASSETREPSycamore Street Sewer (Planning)\$180,00010262015ASSETFACSCWWTP Clarifiers (Planning)\$227,21610270220ASSETREPTusculum Avenue at Woodbridge Sewer Replacement (Design)\$38,90010272050ASSETPSEWayside Hills Pump Station (Planning)\$150,00010272065ASSETFACLMWWTP Flow Meter Renewal (Design)\$630,000	10240855	ASSET	REP	Connecticut Avenue Sewer Replacement (Design, Easement)	\$666,000
10242025ASSETREPDavey Avenue to Hamilton Avenue Sewer Replacement (Design,Easement)\$330,50010242035ASSETREPReading Road - 12th Street to E Liberty Street Sewer Replacement (Design,Easement)\$438,40010242085ASSETPSEVillage Woods Pump Station and System Improvements (Design,Easement)\$166,00010242120ASSETREPElberon Avenue Sewer (Planning)\$166,00010242125ASSETREPElberon Avenue Sewer (Planning)\$120,00010242125ASSETREPSycamore Street Sewer (Planning)\$180,00010262015ASSETFACSCWWTP Clarifiers (Planning)\$227,21610270220ASSETREPTusculum Avenue at Woodbridge Sewer Replacement (Design)\$38,90010272050ASSETPSEWayside Hills Pump Station (Planning)\$150,00010272065ASSETFACLMWWTP Flow Meter Renewal (Design)\$630,000	10241905	ASSET	SUP	Congress Run Stream Restoration and Bank Stabilization	
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10242120ASSETREPElberon Avenue Sewer (Planning)\$120,00010242125ASSETREPSycamore Street Sewer (Planning)\$180,00010262015ASSETFACSCWWTP Clarifiers (Planning)\$227,21610270220ASSETREPTusculum Avenue at Woodbridge Sewer Replacement (Design)\$38,90010272050ASSETPSEWayside Hills Pump Station (Planning)\$150,00010272065ASSETFACLMWWTP Flow Meter Renewal (Design)\$630,000	10242085	ASSET	PSE	Village Woods Pump Station and System Improvements	
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10270220ASSETREPTusculum Avenue at Woodbridge Sewer Replacement (Design)\$38,90010272050ASSETPSEWayside Hills Pump Station (Planning)\$150,00010272065ASSETFACLMWWTP Flow Meter Renewal (Design)\$630,000	10242125	ASSET	REP	Sycamore Street Sewer (Planning)	\$180,000
10272050ASSETPSEWayside Hills Pump Station (Planning)\$150,00010272065ASSETFACLMWWTP Flow Meter Renewal (Design)\$630,000	10262015	ASSET	FAC	SCWWTP Clarifiers (Planning)	\$227,216
10272065ASSETFACLMWWTP Flow Meter Renewal (Design)\$630,000	10270220	ASSET	REP	Tusculum Avenue at Woodbridge Sewer Replacement (Design)	\$38,900
	10272050	ASSET	PSE	Wayside Hills Pump Station (Planning)	\$150,000
10272070ASSETREPSummerview Low Pressure Forcemain (Planning)\$50,335	10272065	ASSET	FAC		\$630,000
	10272070	ASSET	REP	Summerview Low Pressure Forcemain (Planning)	\$50,335
10280241ASSETALWHydraulic Modeling 2021 (Planning)\$1,200,000	10280241	ASSET	ALW		\$1,200,000
10281100ASSETFACLMWWTP Solids Disposal With Odor Control (Design)\$5,567,625	10281100	ASSET	FAC	LMWWTP Solids Disposal With Odor Control (Design)	\$5,567,625



Metropolitan Sewer District of Greater Cincinnati

Planning/Design/Easement Funding Request (Exhibit A)

Project	CIP	Project		P/D/E Funds
No	Туре	Туре	Project Name	Requested
10282021	ASSET	ALW	CIP Planning Projects 2021 (Planning)	\$2,100,000
11582000	ASSET	STY	Greater Cincinnati East Side SBU Mitigation Study (Planning)	\$1,000,000
38 Planni	ing/Design	/Easement	Projects in 2021	\$ 42,569,391

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

ID#	CIP#	Project Name	Location	Explanation/Description	Legislation Type	Resolution 1	Resolution 2	Resolution 3	Current Request	WWIP	AM	Proj Start	t Proj End
10180121	NA	Main Sewer Renewal Program 2021	Throughout the MSD service area	This program conducts lining of existing main sewers throughout the District as a cost-effective method of rehabilitating structurally deteriorated sewers. This scope of work for this program 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 have identified through investigations of the sewer lines and are prioritized based on their risk ranking relative to structural condition and the likelihood and consequence of a sewer failure. The scope of work for the program does not include addressing building sewers.	Const	Approve - plans/ specs/ cost est.	Necessity/ Proceed	Authorize - advertise and \$ bid	6,000,000.00	x			Dec 2021
10180221	NA	Manhole Renewal Program 2021	Throughout the MSD service area	This program provides a cost effective method of rehabilitating structurally deteriorated manholes throughout the system. Manhole rehab projects are prioritized based on their risk ranking relative to structural condition and the likelihood and consequence of failure. The scope of work for the program will include manhole repairs, replacement manholes and adjustments and chimney repairs necessary in conjunction with paving projects.	Const	Approve - plans/ specs/ cost est.	Necessity/ Proceed	Authorize - advertise and \$ bid	973,000.00	x		Jan 2021	Dec 2021
10281321	NA	Prioritized Wastewater Collection System Improvements 2021	Throughout the MSD service area	This program will allow the District to respond to sudden, unexpected system failures, to complete planned repairs and improvements to high risk utility-owned assets, and to make prioritized system improvements through construction coordination projects in order to maintain acceptable levels of service at the lowest life-cycle cost. This allowance represents a consolidation of the former Emergency Sewer, High Risk Asset Renewal, and Building Sewer Renewal allowances.	Const	Approve - plans/ specs/ cost est.	Necessity/ Proceed	Authorize - advertise and \$ bid	12,000,000.00	x		Jan 2021	Dec 2021
10280721	NA	Critical Asset Management Projects 2021	Throughout the MSD service area	This allowance serves as an annual "budget" from which smaller expenditures will be made as the need arises. To manage this allowance, MSD will maintain a risk-based prioritized list of proposed expenditures that will be updated as needs arise and seek legislative approval according to established thresholds.	Const	Approve - plans/ specs/ cost est.	Necessity/ Proceed	Authorize - advertise and \$ bid	6,000,000.00 24,973,000.00	x		Jan 2021	Dec 2021

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	F	re-Construction Services	liscellaneous Expense		Right Of Way		Construction	Continger	су	nstruction Services	Interes	st / Financing	Total
10180121	NA	Main Sewer Renewal Program 2021	\$	- \$		- \$	-	\$	- \$		- \$	6,000,000.00	\$	-	\$ -	\$	- \$	6,000,000.00
10180221	NA	Manhole Renewal Program 2021	\$	- \$		- \$	-	\$	- \$		- \$	873,000.00	\$	-	\$ 100,000.00	\$	- \$	973,000.00
10281321	NA	Prioritized Wastewater Collection System Improvements 2021	\$	- \$		- \$		\$	- \$		- \$	10,000,000.00	\$	-	\$ 2,000,000.00	\$	- \$	12,000,000.00
10280721	NA	Critical Asset Management Projects 2021	\$	- \$		- \$	-	\$	- \$		- \$	6,000,000.00	\$	-	\$ -	\$	- \$	6,000,000.00
		ł														Total	\$	24,973,000.00

Ryan Welsh, 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

Approved this ______ day of ______, 2020 Board of County Commissioners Hamilton County, Ohio



Metropolitan Sewer District of Greater Cincinnati

Project ID	Project Category	Project Type	Project Name	2021 Total Requested	Total Project Cost
10130161	WWIP	PSE	Muddy Creek PSU & Force Main (Planning)	\$550,000	\$9,258,586
10130280	WWIP	PSE	Addyston Pump Station Elimination (Planning)	\$159,382	\$3,335,893
10131021	WWIP	CSO	CSO 402-406 Wet Weather Improvements (Construction)	\$14,018,000	\$16,485,000
10140417	WWIP	ALW	WWIP Phase 1 Construction Compliance Assurance (Design)	\$4,222,000	\$6,968,000
10142200	WWIP	SEP	CSO 513 Sewer Separation (Construction)	\$3,802,700	\$4,638,011
10144888	WWIP	FAC	MCWWTP High Rate Treatment Pump Station (Planning)	\$500,000	\$139,500,000
10171641	WWIP	SEP	CSO 214 Partial Separation (Construction)	\$1,273,700	\$2,253,900
10180121	WWIP	ALW	Main Sewer Renewal Program 2021 (Construction)	\$6,000,000	\$6,000,000
10180221	WWIP	ALW	Manhole Renewal Program 2021 (Construction)	\$973,000	\$973,000
10190221	WWIP	ALW	Phase 2 WWIP Planning 2021 (Planning)	\$2,500,000	\$2,500,000
10192021	WWIP	ALW	SBU Urgent Capacity Response Program 2021 (Design)	\$417,700	\$417,700
10230140	WWIP	SEP	Addyston Extraneous Stormwater Removal (Planning,Design,Easement)	\$814,900	\$5,764,900
10270170	WWIP	CSO	CSO 83 and 472 Dynamic Underflow Control (Construction)	\$2,989,000	\$3,860,025
11142741	WWIP	SEP	CSO 488 490 I-75 Reconstruction Coordination (Design,Construction)	\$1,000,000	\$1,074,000
10199021	OTHER	ALW	Program Management and Support Services 2021 (Design)	\$6,800,000	\$6,800,000
10199121	OTHER	ALW	Hamilton County Utility Oversight and Coordination 2021 (Design)	\$4,400,000	\$4,400,000
13090000	OTHER	PRG	Programmatic Contingency (Design)	\$5,000,000	\$37,421,915
13099999	OTHER	ALW	MSD LABOR (Design)	\$5,500,000	\$32,500,000
10142420	ASSET	SEP	Vine Street at Erkenbrecher Avenue Sewer Separation (Planning)	\$750,000	\$26,700,000
10222015	ASSET	PSE	Stratford Lake Force Main Renewal (Planning)	\$76,733	\$880,398
10230130	ASSET	REP	Dry Weather Channel for SS 937 (Construction)	\$3,177,000	\$4,394,405
10230150	ASSET	REP	Addyston Creek and Sewer Rehab (Design)	\$50,000	\$819,283



Metropolitan Sewer District of Greater Cincinnati

Project ID	Project Category	Project Type	Project Name	2021 Total Requested	Total Project Cost
10230655	ASSET	REP	Muddy Creek Road and Rosebud Drive Sewer Replacement (Planning)	\$68,000	\$735,000
10232015	ASSET	FAC	MUWWTP Thickening Replacement and Pumping Improvements (Construction)	\$3,350,000	\$3,860,000
10232025	ASSET	REP	3731 Glenmore Avenue Sewer Evaluation (Planning)	\$32,000	\$566,000
10240055	ASSET	FAC	MCWWTP Liquid Sludge Storage Tank Covers and Odor Control (Construction)	\$7,898,393	\$8,483,195
10240180	ASSET	REP	3934 Winding Way Sewer Replacement (Construction)	\$388,300	\$539,677
10240200	ASSET	REP	Harvey Ave-Hickman Ave Sewer Replacement (Design,Easement)	\$745,500	\$2,190,377
10240360	ASSET	PSE	Timbers Pump Station Elimination (Construction)	\$1,773,000	\$2,065,579
10240380	ASSET	CSO	CSO 005 Water Connection (Construction)	\$134,300	\$274,789
10240495	ASSET	REP	Wahl Terrace Sewer Replacement (Construction)	\$658,400	\$921,054
10240545	ASSET	REP	Central Parkway Sewer Replacement (HN 2402) (Construction)	\$444,000	\$644,611
10240625	ASSET	FAC	MCWWTP Standby Power Distribution System Improvements (Construction)	\$4,639,261	\$5,194,178
10240697	ASSET	FAC	Mill Creek 4.16 kV & 13.2 kV Loop Improvements (Construction)	\$2,283,627	\$2,647,895
10240755	ASSET	REP	Victory Parkway at Ledgewood Drive Sewer Replacement (Design,Easement)	\$525,000	\$1,485,000
10240760	ASSET	REP	Highland and Burnet Sewer Replacement (Design, Easement)	\$78,500	\$278,900
10240775	ASSET	REP	Gilbert Avenue at Casino Sewer Replacement (Design,Easement)	\$502,700	\$5,427,400
10240820	ASSET	REP	Reading Road at Stewart Place Sewer Replacement (Design,Easement)	\$366,000	\$666,000
10240845	ASSET	REP	Taft Road & McMillan Street Sewer Replacement (Planning)	\$420,000	\$11,602,500
10240855	ASSET	REP	Connecticut Avenue Sewer Replacement (Design,Easement)	\$666,000	\$4,048,600
10241905	ASSET	SUP	Congress Run Stream Restoration and Bank Stabilization (Planning)	\$166,000	\$2,679,000



Metropolitan Sewer District of Greater Cincinnati

Project ID	Project Category	Project Type	Project Name	2021 Total Requested	Total <u>Project Cost</u>
10242025	ASSET	REP	Davey Avenue to Hamilton Avenue Sewer Replacement (Design,Easement)	\$330,500	\$1,042,600
10242035	ASSET	REP	Reading Road - 12th Street to E Liberty Street Sewer Replacement (Design,Easement)	\$438,400	\$3,258,600
10242085	ASSET	PSE	Village Woods Pump Station and System Improvements (Design,Easement)	\$166,000	\$690,000
10242120	ASSET	REP	Elberon Avenue Sewer (Planning)	\$120,000	\$1,770,000
10242125	ASSET	REP	Sycamore Street Sewer (Planning)	\$180,000	\$2,935,000
10262005	ASSET	FAC	SCWWTP Thickening and Settlement Improvements (Construction)	\$950,000	\$1,270,000
10262015	ASSET	FAC	SCWWTP Clarifiers (Planning)	\$227,216	\$4,626,647
0270175	ASSET	REP	East Hill Ave Sewer Replacement (Construction)	\$1,765,728	\$2,289,628
0270220	ASSET	REP	Tusculum Avenue at Woodbridge Sewer Replacement (Design)	\$38,900	\$346,400
0272050	ASSET	PSE	Wayside Hills Pump Station (Planning)	\$150,000	\$2,262,500
0272065	ASSET	FAC	LMWWTP Flow Meter Renewal (Design)	\$630,000	\$7,493,000
0272070	ASSET	REP	Summerview Low Pressure Forcemain (Planning)	\$50,335	\$467,246
10280241	ASSET	ALW	Hydraulic Modeling 2021 (Planning)	\$1,200,000	\$1,200,000
10280721	ASSET	ALW	Critical Asset Management Projects 2021 (Construction)	\$6,000,000	\$6,000,000
10281100	ASSET	FAC	LMWWTP Solids Disposal With Odor Control (Design)	\$5,567,625	\$90,953,125
10281321	ASSET	ALW	Prioritized Wastewater Collection System Improvements 2021 (Construction)	\$12,000,000	\$12,000,000
10282021	ASSET	ALW	CIP Planning Projects 2021 (Planning)	\$2,100,000	\$2,100,000
0630000	ASSET	SUP	Muddy Creek FEMA Property Acquisition & Floodplain Reconfiguration (Construction)	\$328,000	\$700,000
1582000	ASSET	STY	Greater Cincinnati East Side SBU Mitigation Study (Planning)	\$1,000,000	\$1,000,000
60 CIP Pro	ojects for 20)21		\$123,355,800	\$513,659,517

2021 WWIP Projects



2021 Projects

Metropolitan Sewer District of Greater Cincinnati

WWIP Projects

Project	CIP	Projec	t			
ID	Туре	Туре	Project Name	MSD	Other	Total
10130161	WWIP	PSE	Muddy Creek PSU & Force Main (Planning)	\$550,000	\$0	\$550,000
10130280	WWIP	PSE	Addyston Pump Station Elimination	\$159,382	\$0	\$159,382
10131021	WWIP	CSO	(Planning) CSO 402-406 Wet Weather Improvements (Construction)	\$14,018,000	\$0	\$14,018,000
10140417	WWIP	ALW	WWIP Phase 1 Construction Compliance Assurance (Design)	\$4,222,000	\$0	\$4,222,000
10142200	WWIP	SEP	CSO 513 Sewer Separation (Construction)	\$3,802,700	\$0	\$3,802,700
10144888	WWIP	FAC	MCWWTP High Rate Treatment Pump Station (Planning)	\$500,000	\$0	\$500,000
10171641	WWIP	SEP	CSO 214 Partial Separation (Construction)	\$1,273,700	\$0	\$1,273,700
10180121	WWIP	ALW	Main Sewer Renewal Program 2021 (Construction)	\$6,000,000	\$0	\$6,000,000
10180221	WWIP	ALW	Manhole Renewal Program 2021 (Construction)	\$973,000	\$0	\$973,000
10190221	WWIP	ALW	Phase 2 WWIP Planning 2021 (Planning)	\$2,500,000	\$0	\$2,500,000
10192021	WWIP	ALW	SBU Urgent Capacity Response Program 2021 (Design)	\$417,700	\$0	\$417,700
10230140	WWIP	SEP	Addyston Extraneous Stormwater Removal (Planning,Design,Easement)	\$814,900	\$0	\$814,900
10270170	WWIP	CSO	CSO 83 and 472 Dynamic Underflow Control (Construction)	\$2,989,000	\$0	\$2,989,000
11142741	WWIP	SEP	CSO 488 490 I-75 Reconstruction Coordination (Design,Construction)	\$1,000,000	\$0	\$1,000,000
Total Cost f	Total Cost for 14 WWIP CIP Projects				\$0	\$39,220,382

2021 Capital Budget and Capital Improvement Program	· ·	Metropolitan Sewer District of Greater Cincinnati Muddy Creek PSU & Force Main					
Wednesday, December 16, 2020		10130161 Pump Station Impro	CIP Number vement/Elim	10130161 CD Index #216 Sewer Number 7060			
Purpose and Justification	Impact to O	perating Bud	get				
This project is required by the Global Consent Decree as part	None						
of the West Branch Muddy Creek Bundle. This project will							
upgrade the Muddy Creek Pump Station to provide increased							
capacity. The flow will continue to be conveyed to the West	Description	and Location					
Branch Muddy Creek Interceptor. This is associated with	This project consists	s of the upgrade of the	Muddy Creek Pump Sta	ation at 7513 Gracely Drive. The capacity of			
Index 216 in Attachment 2 of the Final WWIP.	the pump station wil	ll be increased to a firm	n capacity of 10.5 MGD	and the flows will continue to be conveyed			
	to the West Branch I	Muddy Creek Intercept	or. This project is locate	ed in the neighborhood of Sayler Park in the			
	City of Cincinnati.						

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$250,594	\$0	\$550,000	\$0	\$550,000
Design	\$390,046	\$0	\$0	\$1,600,000	\$1,600,000
Pre-Construction Services	\$380,902	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$96,586	\$0	\$0	\$96,586	\$96,586
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$4,655,468	\$0	\$0	\$5,762,000	\$5,762,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$651,766	\$0	\$0	\$1,250,000	\$1,250,000
Interest / Financing	\$105,806	\$0	\$0	\$0	\$0
Total	\$6,531,168	\$0	\$550,000	\$8,708,586	\$9,258,586
5 Year Projected Legislation					
Prior Legislation	2021 202	2 2023	2024	2025	Project Total

\$7,012,000

\$0

\$0

Project Total \$9,258,586

Prior	Legislation	Action
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\$0

\$550,000

\$1,696,586



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2021 Capital Budget and Capital Improvement Program	DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitleAddyston Pump Station Elimination
Wednesday, December 16, 2020	Project ID10130280CIP Number10130280CD Index # 235Project TypePump Station Improvement/ElimSewer Number7061
Purpose and Justification	Impact to Operating Budget
This project will eliminate the aging Addyston Pump Station and provide inline storage using a flow control device that will limit the total flow into the Muddy Creek Pump Station	None.
to 10.5 MGD from the Muddy Creek Interceptor and Addyston	Description and Location
Area. This is associated with Index 235 in Attachment 2 of the Final WWIP	This project will eliminate the Addyston Pump Station by installation of approximately 2700 feet of 36-inch gravity sewer along US 50. This sewer will also serve as a storage pipe. This project is located in the Village of Addyston.

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$159,382	\$0	\$159,382	\$0	\$159,382
Design	\$230,192	\$0	\$0	\$500,000	\$500,000
Pre-Construction Services	\$185,509	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$73,906	\$0	\$0	\$73,906	\$73,906
Right-of-Way	\$17,851	\$0	\$0	\$17,851	\$17,851
Construction	\$2,267,328	\$0	\$0	\$2,267,328	\$2,267,328
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$317,426	\$0	\$0	\$317,426	\$317,426
Interest / Financing	\$51,530	\$0	\$0	\$0	\$0
Total	\$3,303,124	\$0	\$159,382	\$3,176,511	\$3,335,893
5 Year Projected Legislation					
Prior Legislation	2021 202	2023	2024	2025	Project Total

\$0

\$2,584,754

\$3,335,893

Prior Legislation Action

\$0

\$159,382

\$591,757

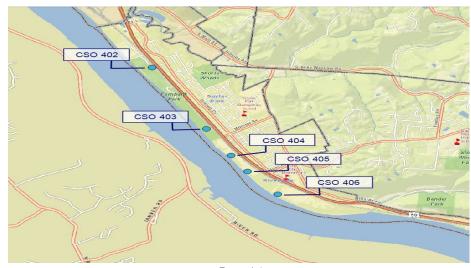


2021 Capital Budget and Capital Improvement Program	Department Project Title	1	wer District of Grea Vet Weather Impro		
Wednesday, December 16, 2020	Project ID Project Type	10131021 CSO Improvement	CIP Number	10131021 CD Sewer Number	Index #218-222 6746
Purpose and Justification	Impact to	Operating Bu	dget		
This project is required by the Wet Weather Consent Decree.	None.				
It is listed in Index 218-222 of Attachment 2 to the Final					
WWIP as part of the West Branch Muddy Creek Bundle. The					
project will improve compliance with the Ohio EPA's Nine	Description	n and Location	n		
Minimum Controls Program whereby MSD is required to prevent	This project will p	provide the design and o	construction of improvem	ents to existing CSO 402	-406. The five CSO
river water from entering the collection system to the	projects(10131020	0,10131040,10131060,	10131080, and 10131100)	have been combined into	one project. Improvements
greatest extent possible.	include backflow	prevention and regulate	or control modifications. 7	This project is located in t	he Sayler Park
	Neighborhood of	the City of Cincinnati,	Hamilton County, Ohio.		

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$737,200	\$1,327,800	\$0	\$0	\$1,327,800
Pre-Construction Services	\$393,400	\$640,100	\$0	\$0	\$640,100
Miscellaneous Expense	\$138,100	\$282,000	\$0	\$0	\$282,000
Right-of-Way	\$122,000	\$217,100	\$0	\$0	\$217,100
Construction	\$10,452,700	\$0	\$13,668,000	\$0	\$13,668,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$1,041,300	\$0	\$350,000	\$0	\$350,000
Interest / Financing	\$563,200	\$0	\$0	\$0	\$0
Total	\$13,447,900	\$2,467,000	\$14,018,000	\$0	\$16,485,000

5 Year Projected Legislat	lon					
Prior Legislation	2021	2022	2023	2024	2025	Project Total
\$2,467,000	\$14,018,000	\$0	\$0	\$0	\$0	\$16,485,000

Dec 2017,Sep 2019



2021 Capital Budget and Capital Improvement Program	DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitleWWIP Phase 1 Construction Compliance Assurance
Wednesday, December 16, 2020	Project ID 10140417 CIP Number 10140417 CD Index # 112 Project Type Allowance Sewer Number 6740
Purpose and Justification	Project Type Allowance Sewer Number 6740 Impact to Operating Budget 6740 674
This is a consent decree requirement as agreed to in the submitted PCMP required by the WWIP.	None.
	Description and Location
	MSDGC must demonstrate compliance with the LMCPR and other Wet Weather Improvement Program's (WWIP's)
	Performance Criteria applicable to combined sewer overflows (CSOs) by post-construction monitoring and
	modeling as part of the Post Construction Monitoring Plan (PCMP). This CIP is for the planning, flow
	monitoring, hydraulic modeling, and assistance with regulatory negotiations for that project.

Cost Description	Original Pr	roject	Prior Legislation	Current	Future	Current Project
	Estimate	e		Legislation	Legislation	Estimate
Planning		\$0	\$0	\$0	\$0	\$0
Design		\$0	\$0	\$0	\$0	\$0
Pre-Construction Services		\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense		\$0	\$2,746,000	\$4,222,000	\$0	\$6,968,000
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	\$2,746,000	\$4,222,000	\$0	\$6,968,000
5 Year Projected Legislation						
Prior Legislation	2021	2022	2023	2024	2025	Project Total
\$2,746,000	\$4,222,000		\$0 \$0	\$	0 \$0	\$6,968,000

Dec 2017,Feb 2020



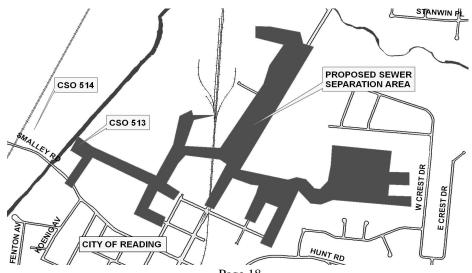
Mill Creek Basin

2021 Capital Budget and Capital Improvement Program	DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitleCSO 513 Sewer Separation
Wednesday, December 16, 2020	Project ID10142200CIP Number10142200CD Index # 231Project TypeSewer SeparationSewer Number6886
Purpose and Justification	Impact to Operating Budget
This project is required by the Wet Weather Consent Decree.	None.
It is listed in Index 231 of Attachment 2 to the Final WWIP.	
The project is necessary to reduce overflows tributary to CSO	
513.	Description and Location
	This project will reduce overflows from CSO 513 by removing storm water from the upstream combined sewers that
	are tributary to CSO 513. This project is located in the Mill Creek Basin in the City of Reading, Hamilton
	County, Ohio.

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$198,900	\$0	\$0	\$0	\$0
Design	\$210,400	\$375,311	\$0	\$0	\$375,311
Pre-Construction Services	\$146,300	\$160,000	\$0	\$0	\$160,000
Miscellaneous Expense	\$97,500	\$40,000	\$0	\$0	\$40,000
Right-of-Way	\$0	\$210,000	\$0	\$0	\$210,000
Construction	\$2,568,700	\$50,000	\$3,738,000	\$0	\$3,788,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$254,300	\$0	\$64,700	\$0	\$64,700
Interest / Financing	\$127,200	\$0	\$0	\$0	\$0
Total	\$3,603,300	\$835,311	\$3,802,700	\$0	\$4,638,011

5 Year Projected Legislat	tion					
Prior Legislation	2021	2022	2023	2024	2025	Project Total
\$835,311	\$3,802,700	\$0	\$0	\$0	\$0	\$4,638,011

Dec 2017,Sep 2018,Mar 2019,Aug 2019,Jan 2020,Jun 2020



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2021 Capital Budget and Capital Improvement Program

Wednesday, December 16, 2020

Purpose and Justification

The current WWTP pump station lacks the ability to isolate the influent diversion chamber and the north PS wet well, and is a known risk. Recent physical scale model and computation fluid dynamics (CFD) studies have shown that there is no other feasible way to increase plant pumping capacity with the existing wet wells. Building additional pumping capacity and a new larger diversion chamber at the Mill Creek WWTP site would be required. Thus, any additional wet weather treatment capacity at the plant will require a new pump station. This is associated with Index 248 in Attachment 2 of the Final WWIP. DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitleMCWWTP High Rate Treatment Pump Station

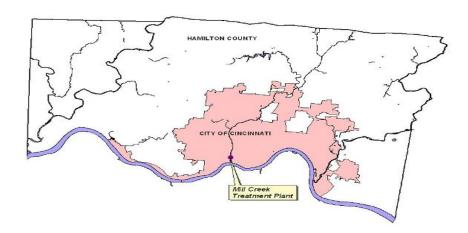
Project ID	10144888	CIP Number	10144888 CD	Index #248
Project Type	Treatment Facility		Sewer Number	6793
Impact to (Operating Budg	et		
None	• • •			
Description	and Location			
-	n and Location	consists of two physical	ly separate pumping sta	tions: The North PS and
The Mill Creek Ra				

three vertical centrifugal pumps with two rated at 65 MGD each and one rated at 30 MGD (95 MGD firm capacity). 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	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$0	\$0	\$500,000	\$0	\$500,000
Design	\$3,344,948	\$0	\$0	\$12,000,000	\$12,000,000
Pre-Construction Services	\$2,229,965	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$278,746	\$0	\$0	\$2,000,000	\$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	\$13,000,000	\$13,000,000
Interest / Financing	\$1,393,728	\$0	\$0	\$0	\$0
Total	\$80,000,000	\$0	\$500,000	\$139,000,000	\$139,500,000

5 Tear Projected Legislation							
Prior Legislation	2021	2022	2023	2024	2025		Project Total
\$0	\$500,000	\$14,000,000	\$0	\$125,000,000		\$0	\$139,500,000

Prior Legislation Action

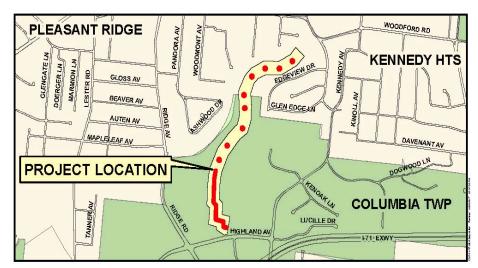


2021 Capital Budget and Capital Improvement Program	DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitleCSO 214 Partial Separation
Wednesday, December 16, 2020	Project ID 10171641 CIP Number 10171641 CD Index #188R Project Type Sewer Separation Sewer Number 6744
Purpose and Justification	Impact to Operating Budget
The project is required by the Wet Weather Consent Decree.	None.
Per the Consent Decree, CSO 214 remaining overflow volume	
during the typical year shall be 57.4 MG or less. This	
project will strategically separate the drainage to CSO 214	Description and Location
to reduce the flows to CSO 214 regulator.	This project involves strategic separation of approximately 55 acres of CSO 214 sewer shed. Existing inlets
	in a ravine to the CSO sewer will be plugged or elevated to allow large flows to enter the combined sewers for
	events greater than the Typical Year. The existing storm outlet will be improved to convey storm flow from
	CSO 214 directly to Yononte Creek, which is a tributary to Duck Creek. Additional modeling to be preformed by
	MSD, Bridge project to be completed by end of 2020. This project is located in Columbia Township, Hamilton
	County, Ohio.

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$278,000	\$0	\$0	\$278,000
Pre-Construction Services	\$0	\$110,000	\$0	\$0	\$110,000
Miscellaneous Expense	\$0	\$112,200	\$0	\$0	\$112,200
Right-of-Way	\$0	\$480,000	\$0	\$0	\$480,000
Construction	\$2,403,000	\$0	\$1,233,700	\$0	\$1,233,700
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$315,000	\$0	\$40,000	\$0	\$40,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$2,718,000	\$980,200	\$1,273,700	\$0	\$2,253,900

5 Teur Trojecteu Degistuti						
Prior Legislation	2021	2022	2023	2024	2025	Project Total
\$980,200	\$1,273,700	\$0	\$0	\$0	\$C	\$2,253,900

Dec 2017



2021 Capital Budget
and Capital
Improvement ProgramDepartment
Project TitleMetropolitan Sev
Main Sewer RenWednesday, December 16, 2020Project ID
Project ID10180121

Purpose and Justification

Formerly known as the "Trenchless Technology Sewer Rehabilitation Allowance", this program provides a cost-effective method of rehabilitating deteriorated existing main sewers while improving the hydraulic performance of the sewer. This work may also increase development credits upstream of an SSO.

Department	Department Metropolitan Sewer District of Greater Cincinnati					
Project Title	Main Sewer Renewal Program 2021					
-		_				
Project ID	10180121	CIP Number	10180121	CD Index #000		
Project Type	Allowance		Sewer Numb	per 7062		
Impact to (Operating Bud	lget				
None.						
Description	n and Location	1				
This program conc	lucts lining of existing	main sewers throughout th	e District as a cos	t-effective method of		
rehabilitating struc	cturally deteriorated sew	vers. This scope of work for	or this program wi	ll include, but not		
limit itself to, slip-	lining, point lining, spir	ral wound lining, pipe bur	sting, carbon filan	nent wrapping,		
directional drilling	directional drilling, jack-and-boring, Cured-in-place-pipe, and other methods. The sewer segments to be					
addressed under th	nis program have identif	ied through investigations	of the sewer line	s and are prioritized		
based on their risk	ranking relative to stru	ctural condition and the lil	kelihood and cons	equence of a sewer		
failure. The scope	of work for the program	n does not include address	ing building sewe	rs.		

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	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	\$6,000,000	\$0	\$6,000,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$3,000,000	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$13,000,000	\$0	\$6,000,000	\$0	\$6,000,000

2023

\$0

2024

\$0

2025

\$0

Project Total

\$6,000,000

Prior	Legislatio	n Action
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\$0

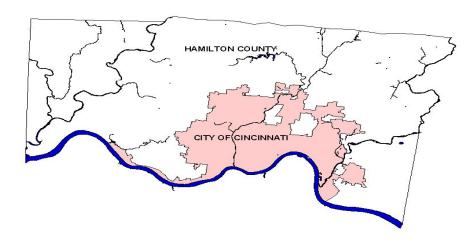
2021

\$6,000,000

2022

\$0

Prior Legislation



2021 Capital Budget and Capital Improvement Program	DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitleManhole Renewal Program 2021
Wednesday, December 16, 2020	Project ID10180221CIP Number10180221CD Index #000Project TypeAllowanceSewer Number7063
Purpose and Justification	Impact to Operating Budget
Formerly known as the "Trenchless Technology Manhole	None.
Rehabilitation Allowance", this program provides a	
cost-effective method of rehabilitating existing manholes	
each year to reduce infiltration and inflow upstream of SSOs	Description and Location
to reduce overflows. This work may also increase development	This program provides a cost effective method of rehabilitating structurally deteriorated manholes throughout
credits upstream of an SSO.	the system. Manhole rehab projects are prioritized based on their risk ranking relative to structural
	condition and the likelihood and consequence of failure. The scope of work for the program will include
	manhole repairs, replacement manholes and adjustments and chimney repairs necessary in conjunction with paving
	projects.

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	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	\$1,200,000	\$0	\$873,000	\$0	\$873,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$100,000	\$0	\$100,000	\$0	\$100,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$1,300,000	\$0	\$973,000	\$0	\$973,000
5 Year Projected Legislation					
Prior Legislation	2021 202	22 2023	2024	2025	Project Total

\$0

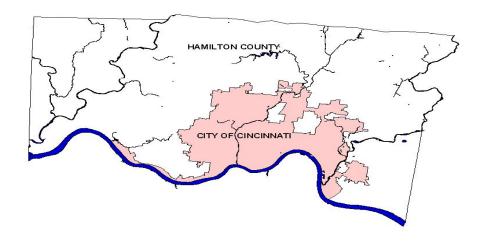
\$973,000

\$0

Prior Legislation Action

\$0

\$973,000



2021 Capital Budget and Capital Improvement Program	DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitlePhase 2 WWIP Planning 2021
Wednesday, December 16, 2020	Project ID 10190221 CIP Number 10190221 CD Index #000
	Project Type Allowance Sewer Number 7048
Purpose and Justification	Impact to Operating Budget
MSD will track work comprised of planning and preparation	None
activities associated with Phase 2 of the District's Wet	
Weather Improvement Plan.	
	Description and Location
	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.

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$0	\$0	\$2,500,000	\$0	\$2,500,000
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	\$0	\$0	\$2,500,000	\$0	\$2,500,000
5 Year Projected Legislation					
Prior Legislation	2021 202	2 2023	2024	2025	Project Total

\$0

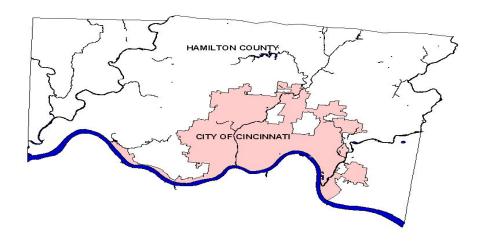
\$0

\$2,500,000

Prior Legislation Action

\$0

\$2,500,000



2021 Capital Budget and Capital Improvement Program	Department Project Title	er Cincinnati ogram 2021		
Wednesday, December 16, 2020	Project ID Project Type	10192021 Allowance	CIP Number	10192021 CD Index # Sewer Number 6898
Purpose and Justification	Impact to (Operating Bu	dget	
This project will be used to address sewer back up problems	None			
as indicated in the project description and in accordance				
with the Consent Decree and MSDGC policy, and Board of County				
Commissioner approval.	Description	n and Location	n	
	This allowance fur	nds planning of measur	es that restore sewer capac	ity in existing CSO communities by
	identifying urgent	WWIP construction w	ork that is needed to addres	s urgent CSO community capacity needs, WIB
	(SBU) issues, or un	npermitted flows. Thes	se measures are either not id	dentified as WWIP projects or would be
	moved up from exi	isting WWIP schedule	s. All resulting construction	projects will undergo public review and
	evaluation as part of	of proposed legislation	and approval by the BoCC	· · ·

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$0	\$417,700	\$0	\$417,700
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$0	\$0	\$0	\$0	\$0
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$1,750,000	\$0	\$0	\$0	\$0
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$250,000	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$2,000,000	\$0	\$417,700	\$0	\$417,700
5 Year Projected Legislation					
Prior Legislation	2021 202	2 2023	2024	2025	Project Total
	1				

\$0

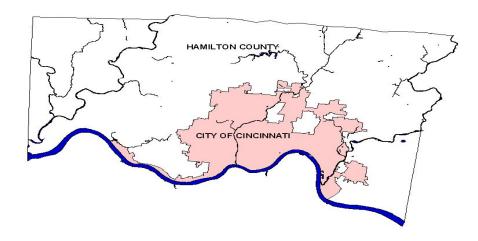
\$0

\$417,700

Prior Legislation Action

\$0

\$417,700



2021 Capital Budget and Capital Improvement Program

Wednesday, December 16, 2020

Purpose and Justification

The purpose of this project is to reduce wet weather flows that reach SSO 675A and PSO 730 and avoid replacement of the Muddy Creek Pump Station. This project will also help reduce wet weather flow rates in the combined sewers of Addyston. It is estimated that 9.3MG of runoff will be removed from the system during the typical year. This project will also reduce overflows at CSO 675 and CSO 676. The BCE for this adaptive project estimated a \$3.4M cost savings compared to the initially proposed replacement of the MCPS with a 25MGD PS. DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitleAddyston Extraneous Stormwater Removal

Project ID	10230140	CIP Number	10230140 CD	Index #235R	
Project Type	Sewer Separation		Sewer Number	7001	
Impact to	Operating Budg	et			
None.					
Description	n and Location				
This project invol-	ves the construction of 5,8	00 linear feet of new st	orm sewers along Bown	nan Lane, Main	
~					

Street, and Sekitan Avenue. This project is focused only on separating the street load from the existing combined sewer. It is estimated that approximately 9.3MG of runoff will be removed from the CSS during the typical year. In an effort to avoid replacement of the Muddy Creek PS, flows to the MCPS can't exceed 10.5 MGD. This project, in conjunction with elimination of the Addyston Pump Station intends to achieve this objective.

\$0

\$4,950,000

\$5,764,900

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$258,840	\$0	\$258,900	\$0	\$258,900
Design	\$405,043	\$0	\$405,000	\$0	\$405,000
Pre-Construction Services	\$178,232	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$98,453	\$0	\$99,000	\$0	\$99,000
Right-of-Way	\$51,193	\$0	\$52,000	\$0	\$52,000
Construction	\$4,901,367	\$0	\$0	\$4,900,000	\$4,900,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$463,402	\$0	\$0	\$50,000	\$50,000
Interest / Financing	\$111,395	\$0	\$0	\$0	\$0
Total	\$6,467,925	\$0	\$814,900	\$4,950,000	\$5,764,900
5 Year Projected Legislation					
Prior Legislation	2021 20	22 2023	2024	2025	Project Total

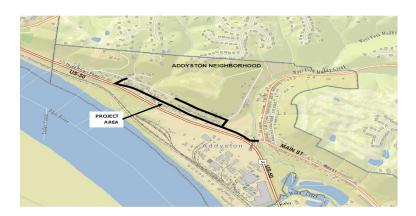
\$0

\$0

Prior Legislation Action

\$0

\$814,900

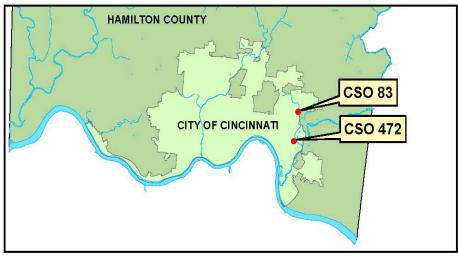


2021 Capital Budget and Capital Improvement Program	Department Project TitleMetropolitan Sewer District of Greater Cincinnati CSO 83 and 472 Dynamic Underflow Control
Wednesday, December 16, 2020	Project ID10270170CIP Number10270170CD Index # 255 285Project TypeCSO Improvement/ElimSewer Number6594
Purpose and Justification	Impact to Operating Budget
This project will provide a cost effective strategy to reduce	None
combined sewer overflows through operational controls.	
Additionally, this project will provide information to be	
used to support MSD's needs to collect data to provide cost	Description and Location
effective and innovative solutions for the Federal Consent	The project consists of modifications to CSO 83 and CSO 472 that will provide for an automated control of flow
Decree. It offers the opportunity to demonstrate water	into the interceptor sewer. The proposed improvements consist of replacement of the underflow pipe,
quality management at the lowest cost to rate payers, and a	replacement of the regulator, addition of level sensors, and telemetry equipment. The project is located in
goal to be on the forefront of water management practices.	the Little Miami basin in Linwood and Madisonville neighborhoods of the City of Cincinnati, Hamilton County,
	Ohio.

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$267,000	\$569,025	\$0	\$0	\$569,025
Pre-Construction Services	\$72,000	\$72,000	\$0	\$0	\$72,000
Miscellaneous Expense	\$65,000	\$65,000	\$0	\$0	\$65,000
Right-of-Way	\$0	\$165,000	\$0	\$0	\$165,000
Construction	\$2,377,310	\$0	\$2,739,000	\$0	\$2,739,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$58,500	\$0	\$250,000	\$0	\$250,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$2,839,810	\$871,025	\$2,989,000	\$0	\$3,860,025

5 Tear Flojecteu Legislatio	UII					
Prior Legislation	2021	2022	2023	2024	2025	Project Total
\$871,025	\$2,989,000	\$0	\$0	\$0	\$0	\$3,860,025

Dec 2014,Mar 2015,Oct 2015,Dec 2016,Aug 2017,Jan 2019



2021 Capital Budget and Capital mprovement Program	Department Project Title	•	ver District of Grea 75 Reconstruction	
Wednesday, December 16, 2020	Project ID Project Type	11142741 Sewer Separation	CIP Number	11142741 CD Index #453R Sewer Number 6408
urpose and Justification	Impact to	Operating Bud	get	
he MSD ODOT collaboration represent a rare opportunity to	None.			
duce CSOs, perform asset management, improve water quality,				
nd position the service area for future growth in I-75				
prridor. These improvements are being coordinated not only	Description	n and Location		
ith ODOT, but DOTE, Public Services, City Planning, and	CSO 488 I-75 Red	construction Coordinatio	n will coordinate highwa	ay separations, stormwater crossings of I-75,
her City departments and neighborhood stakeholders.	water quality imp	rovements, and asset man	nagement improvements	critical to CSO 488 sewershed with ODOT's I-75
umerous agreements are complete or in development, with some	reconstruction. T	he project is located in th	e Carthage neighborhoo	d of the City of Cincinnati.
ojects are in construction, in the context of goals stated				
the Revive Cincinnati report.				

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	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	\$6,000	\$60,000	\$0	\$66,000
Right-of-Way	\$0	\$0	\$0	\$0	\$C
Construction	\$1,558,000	\$0	\$900,000	\$0	\$900,000
Program Management	\$0	\$0	\$0	\$0	\$C
Construction Services	\$55,000	\$0	\$40,000	\$0	\$40,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$1,613,000	\$73,000	\$1,000,000	\$0	\$1,073,000

Prior Legislation	2021	2022	2023	2024	2025	Project Total
\$73,000	\$1,000,000	\$0	\$0	\$0	\$	0 \$1,073,000

Prior Legislation Action

Jul 2014



2021 ASSET Projects



2021 Projects

Metropolitan Sewer District of Greater Cincinnati ASSET Projects

Project	CIP	Project		MOD	04	TT- 4 - 1	D-
ID	Type	<u>Type</u>	Project Name	MSD	<u>Other</u>	<u> </u>	_ Pag
10142420	ASSET	SEP	Vine Street at Erkenbrecher Avenue Sewer Separation (Planning)	\$750,000	\$0	\$750,000	<mark>31</mark>
10222015	ASSET	PSE	Stratford Lake Force Main Renewal (Planning)	\$76,733	\$0	\$76,733	<mark>32</mark>
.0230130	ASSET	REP	Dry Weather Channel for SS 937 (Construction)	\$3,177,000	\$0	\$3,177,000	<mark>33</mark>
0230150	ASSET	REP	Addyston Creek and Sewer Rehab (Design)	\$50,000	\$0	\$50,000	
0230655	ASSET	REP	Muddy Creek Road and Rosebud Drive Sewer Replacement (Planning)	\$68,000	\$0	\$68,000	<mark>35</mark>
.0232015	ASSET	FAC	MUWWTP Thickening Replacement and Pumping Improvements (Construction)	\$3,350,000	\$0	\$3,350,000	<mark>36</mark>
0232025	ASSET	REP	3731 Glenmore Avenue Sewer Evaluation (Planning)	\$32,000	\$0	\$32,000	<mark>37</mark>
0240055	ASSET	FAC	MCWWTP Liquid Sludge Storage Tank Covers and Odor Control (Construction)	\$7,898,393	\$0	\$7,898,393	<mark>38</mark>
0240180	ASSET	REP	3934 Winding Way Sewer Replacement (Construction)	\$388,300	\$0	\$388,300	<mark>39</mark>
0240200	ASSET	REP	Harvey Ave-Hickman Ave Sewer Replacement (Design,Easement)	\$745,500	\$0	\$745,500	<mark>40</mark>
0240360	ASSET	PSE	Timbers Pump Station Elimination (Construction)	\$1,773,000	\$0	\$1,773,000	<mark>41</mark>
0240380	ASSET	CSO	CSO 005 Water Connection (Construction)	\$134,300	\$0	\$134,300	
0240495	ASSET	REP	Wahl Terrace Sewer Replacement (Construction)	\$658,400	\$0	\$658,400	<mark>43</mark>
0240545	ASSET	REP	Central Parkway Sewer Replacement (HN 2402) (Construction)	\$444,000	\$0	\$444,000	<mark>44</mark>
0240625	ASSET	FAC	MCWWTP Standby Power Distribution System Improvements (Construction)	\$4,639,261	\$0	\$4,639,261	<mark>45</mark>
0240697	ASSET	FAC	Mill Creek 4.16 kV & 13.2 kV Loop Improvements (Construction)	\$2,283,627	\$0	\$2,283,627	<mark>46</mark>
0240755	ASSET	REP	Victory Parkway at Ledgewood Drive Sewer Replacement (Design,Easement)	\$525,000	\$0	\$525,000	<mark>47</mark>
0240760	ASSET	REP	Highland and Burnet Sewer Replacement (Design,Easement)	\$78,500	\$0	\$78,500	<mark>48</mark>
0240775	ASSET	REP	Gilbert Avenue at Casino Sewer Replacement (Design,Easement)	\$502,700	\$0	\$502,700	<mark>49</mark>
0240820	ASSET	REP	Reading Road at Stewart Place Sewer Replacement (Design,Easement)	\$366,000	\$0	\$366,000	<mark>50</mark>
0240845	ASSET	REP	Taft Road & McMillan Street Sewer Replacement (Planning)	\$420,000	\$0	\$420,000	<mark>51</mark>
0240855	ASSET	REP	Connecticut Avenue Sewer Replacement (Design,Easement)	\$666,000	\$0	\$666,000	<mark>52</mark>
0241905	ASSET	SUP	Congress Run Stream Restoration and Bank Stabilization (Planning)	\$166,000	\$0	\$166,000	<mark>53</mark>
0242025	ASSET	REP	Davey Avenue to Hamilton Avenue Sewer Replacement (Design,Easement)	\$330,500	\$0	\$330,500	<mark>54</mark>



2021 Projects

Metropolitan Sewer District of Greater Cincinnati ASSET Projects

Project	CIP	Project					
ID	Туре	Туре	Project Name	MSD	Other	Total	
10242035	ASSET	REP	Reading Road - 12th Street to E Liberty	\$438,400	\$0	\$438,400	
			Street Sewer Replacement				
			(Design,Easement)				_
10242085	ASSET	PSE	Village Woods Pump Station and System	\$166,000	\$0	\$166,000	
			Improvements (Design,Easement)				
10242120	ASSET	REP	Elberon Avenue Sewer (Planning)	\$120,000	\$0	\$120,000	_
10242125	ASSET	REP	Sycamore Street Sewer (Planning)	\$180,000	\$0	\$180,000	
10262005	ASSET	FAC	SCWWTP Thickening and Settlement	\$950,000	\$0	\$950,000	
			Improvements (Construction)				
10262015	ASSET	FAC	SCWWTP Clarifiers (Planning)	\$227,216	\$0	\$227,216	
10270175	ASSET	REP	East Hill Ave Sewer Replacement	\$1,765,728	\$0	\$1,765,728	
			(Construction)				
10270220	ASSET	REP	Tusculum Avenue at Woodbridge Sewer	\$38,900	\$0	\$38,900	
			Replacement (Design)				
10272050	ASSET	PSE	Wayside Hills Pump Station (Planning)	\$150,000	\$0	\$150,000	
10272065	ASSET	FAC	LMWWTP Flow Meter Renewal (Design)	\$630,000	\$0	\$630,000	
10272070	ASSET	REP	Summerview Low Pressure Forcemain	\$50,335	\$0	\$50,335	
			(Planning)				
10280241	ASSET	ALW	Hydraulic Modeling 2021 (Planning)	\$1,200,000	\$0	\$1,200,000	
10280721	ASSET	ALW	Critical Asset Management Projects 2021	\$6,000,000	\$0	\$6,000,000	
			(Construction)				
10281100	ASSET	FAC	LMWWTP Solids Disposal With Odor Control	\$5,567,625	\$0	\$5,567,625	
			(Design)				
10281321	ASSET	ALW	Prioritized Wastewater Collection System	\$12,000,000	\$0	\$12,000,000	_
			Improvements 2021 (Construction)				
10282021	ASSET	ALW	CIP Planning Projects 2021 (Planning)	\$2,100,000	\$0	\$2,100,000	
10630000	ASSET	SUP	Muddy Creek FEMA Property Acquisition &	\$328,000	\$0	\$328,000	-
			Floodplain Reconfiguration				
			(Construction)				
11582000	ASSET	STY	Greater Cincinnati East Side SBU	\$1,000,000	\$0	\$1,000,000	_
			Mitigation Study (Planning)				
Total Cost f	otal Cost for 42 ASSET Projects				\$0	\$62,435,418	-

2021 Capital Budget and Capital Improvement Program	DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitleVine Street at Erkenbrecher Avenue Sewer Separation
Wednesday, December 16, 2020	Project ID 10142420 CIP Number 10142420 CD Index #
	Project Type Sewer Separation Sewer Number 7057
Purpose and Justification	Impact to Operating Budget
The nominated project is an opportunity to address multiple	None
extreme risk sewer assets in the area. It will address	
capacity issues in the sewer system via strategic sewer	
separation. Additionally, through coordination with the zoo	Description and Location
it will achieve net-zero on-site water usage. This will have	The nominated project is located in the vicinity of Vine Street and Erkenbrecher Avenue, within Clifton and
a positive impact on the flow in the sewer system and reduce	Corryville neighborhoods, in the City of Cincinnati. It will be conducted in coordination with Cincinnati Zoo.
overflows. Based on existing information, the pipes are	The project area includes many extreme risk combined sewer lines. The planning effort will include several
candidates for rehabilitation. The project will further	activities such as, CCTV inspection, condition assessment, flow monitoring, model updates, alternatives
evaluate and investigate the sewers in this area for	analysis. Based on the data, information, and the analysis a BCE will be developed.
structural condition as well as capacity. Alternatives	
analysis will be conducted and evaluated to provide the best	
course of action in the project area.	

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$750,000	\$0	\$750,000	\$0	\$750,000
Design	\$1,500,000	\$0	\$0	\$1,500,000	\$1,500,000
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$1,200,000	\$0	\$0	\$1,200,000	\$1,200,000
Right-of-Way	\$750,000	\$0	\$0	\$750,000	\$750,000
Construction	\$20,000,000	\$0	\$0	\$20,000,000	\$20,000,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$2,500,000	\$0	\$0	\$2,500,000	\$2,500,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$26,700,000	\$0	\$750,000	\$25,950,000	\$26,700,000
5 Year Projected Legislation					
Prior Legislation	2021 202	22 2023	2024	2025	Project Total

\$0

\$22,500,000

\$26,700,000

Prior Legislation Action

\$0

\$750,000

\$3,450,000



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2021 Capital Budget and Capital Improvement Program

Wednesday, December 16, 2020

Purpose and Justification

This pump station serves 23 properties on Castlebrook. The 3" pump station FM that runs up Castlebrook connects to a 3" LPFM that run from Mallard Crossing to Boomer and ultimately connects to a gravity line on Arrow. Approx 29 properties are connected to this LPFM. In 2019, MSD approved a sewer availability request to connect 38 homes along Boomer to the LPFM due to failing septic systems, that was rescinded due to capacity issues. Also, development services has fielded sewer availability requests from developers as there are undeveloped lots nearby. These issues have put a hold on development in the area as all request to tie into the sewer have been put on hold pending a solution. DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitleStratford Lake Force Main Renewal

Project ID	10222015	CIP Number	10222015	CD Index #NA	
Project Type	Pump Station Improver	ment/Elim	Sewer Numb	ber	
Impact to (Operating Budge	et			
None					
Description	n and Location				
-					
Stratford Lake Put	mn Station has been struggl	ing to perform during	wet weather leadi	ng to high wet well level	

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. Project will evaluate solutions to alleviate capacity issues. Construction of a dedicated pump station force main running along Boomer Rd. and connecting to gravity sewer on Arrow Ave. (MH 23509003) will be evaluated along with PS elimination and gravity options. Need for upgrades at PS to accommodate area development should be evaluated. Project located in Taylor Creek in Green Township.

\$653,104

\$0

\$880,398

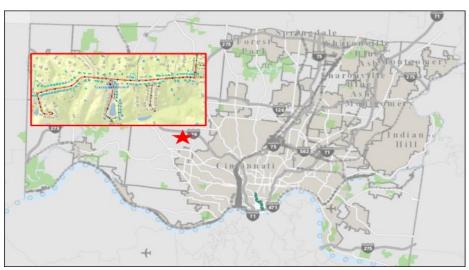
Cost Description	Original Pro	ject Prior	r Legislation	Current	Future	Current Project
	Estimate			Legislation	Legislation	Estimate
Planning	\$76,7	33	\$0	\$76,733	\$0	\$76,733
Design	\$104,2	61	\$0	\$0	\$104,261	\$104,261
Pre-Construction Services		\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$46,3	00	\$0	\$0	\$46,300	\$46,300
Right-of-Way		\$0	\$0	\$0	\$0	\$0
Construction	\$591,5	80	\$0	\$0	\$591,580	\$591,580
Program Management		\$0	\$0	\$0	\$0	\$0
Construction Services	\$61,5	24	\$0	\$0	\$61,524	\$61,524
Interest / Financing		\$0	\$0	\$0	\$0	\$0
Total	\$880,3	98	\$0	\$76,733	\$803,665	\$880,398
5 Year Projected Legislation						
Prior Legislation	2021	2022	2023	2024	2025	Project Total

\$0

\$150,561

\$76,733

Prior Legislation Action

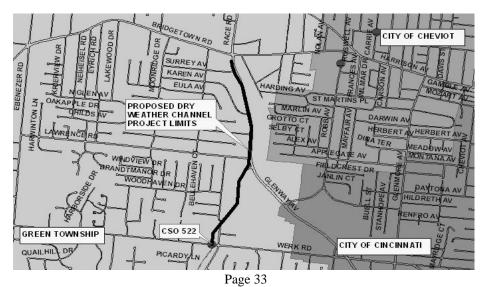


2021 Capital Budget and Capital Improvement Program	DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitleDry Weather Channel for SS 937
Wednesday, December 16, 2020	Project ID 10230130 CIP Number 10230130 CD Index # NA
	Project Type Sewer Replacement Sewer Number 6253
Purpose and Justification	Impact to Operating Budget
The dry weather channel will remediate significant sewer	None.
odors that have been experienced in areas north of the	
proposed Werk and Westbourne EHRT, along Glenway Avenue and	
Westbourne Drive where, during dry weather, there is	Description and Location
insufficient flow to convey solids through the combined sewer	This project proposes to remodel the bottom of 5500 feet of existing Sanitary Sewer 937A and 937B to create a
which runs beneath these streets. Furthermore, the dry	dry weather channel. This dry weather channel will be constructed to increase flow velocity of dry weather
weather channel will significantly reduce the quantity of	flow in this sewer to allow solids to be conveyed and handled at the Muddy Creek WWTP during dry weather. This
solids and associated odors that are conveyed to Schaible	project is located in Green Township, Hamilton County, Ohio.
Creek during summertime wet weather events characterized by	
heavy early-onset precipitation. This project will also	
improve water quality in the creek.	

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$0	\$120,011	\$0	\$0	\$120,011
Design	\$244,900	\$290,700	\$0	\$0	\$290,700
Pre-Construction Services	\$67,300	\$67,300	\$0	\$0	\$67,300
Miscellaneous Expense	\$42,500	\$42,500	\$0	\$616,500	\$659,000
Right-of-Way	\$65,700	\$65,700	\$0	\$0	\$65,700
Construction	\$1,701,000	\$0	\$3,127,000	\$0	\$3,127,000
Program Management	\$0	\$14,694	\$0	\$0	\$14,694
Construction Services	\$70,000	\$0	\$50,000	\$0	\$50,000
Interest / Financing	\$28,000	\$0	\$0	\$0	\$0
Total	\$2,219,400	\$600,905	\$3,177,000	\$616,500	\$4,394,405

5 Year Projected Legislat	ion					
Prior Legislation	2021	2022	2023	2024	2025	Project Total
\$600,905	\$3,177,000	\$616,500	\$0	\$0	\$0	\$4,394,405

May 2013, May 2014, Mar 2020



2021 Capital Budget and Capital Improvement Program	DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitleAddyston Creek and Sewer Rehab
Wednesday, December 16, 2020	Project ID10230150CIP Number10230150CD Index # NAProject TypeSewer ReplacementSewer Number6453
Purpose and Justification	Impact to Operating Budget
The West Fork Muddy Creek is unstable and has shifted causing	None.
damage to the 12-inch diameter sewer from manhole 11801005 to	
manhole 11801001 and manhole 11810112. Pipe segment	
11801003-11801002 fell away from the hillside due to erosion	Description and Location
in August 2011. Manhole 11801002 collapsed in July 2010 and	The Addyston Creek and Sewer Rehab project, is located along the West Fork Muddy Creek between Church Street
was repaired. The sewer segments further south of this	and 1st Street, in the Village of Addyston, in the Muddy Creek Basin. The project will construct a new
segment are protected by a vertical retaining wall that has	21-inch diameter sewer on the East side of the West Fork Muddy Creek, fill seal, and abandon the existing
fallen away and needs to be repaired.	8-inch and 18-inch diameter sewer and replace the fallen retaining wall on the West side of the West Fork
	Muddy Creek.

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$0	\$31,942	\$0	\$0	\$31,942
Design	\$73,000	\$98,923	\$50,000	\$0	\$148,923
Pre-Construction Services	\$27,900	\$56,800	\$0	\$0	\$56,800
Miscellaneous Expense	\$74,500	\$57,500	\$0	\$0	\$57,500
Right-of-Way	\$14,944	\$43,544	\$0	\$0	\$43,544
Construction	\$464,400	\$0	\$0	\$452,000	\$452,000
Program Management	\$0	\$3,574	\$0	\$0	\$3,574
Construction Services	\$46,900	\$0	\$0	\$25,000	\$25,000
Interest / Financing	\$5,800	\$0	\$0	\$0	\$0
Total	\$707,444	\$292,283	\$50,000	\$477,000	\$819,283
5 Year Projected Legislation					
Prior Legislation	2021 202	2 2023	2024	2025	Project Total

\$477,000

\$0

\$0

\$819,283

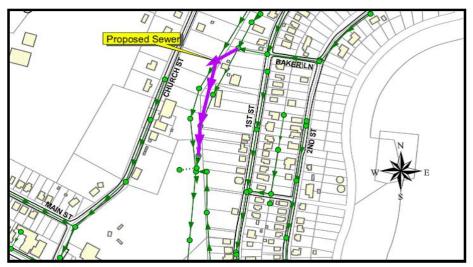
\$0

Prior Legislation Action

\$292,283

Dec 2013, May 2014, Nov 2014, Nov 2015, Dec 2017

\$50,000



Page 34

•				
5	655 CIP Numb			
	·	Sewer Number 6771		
Impact to Operat	ing Budget			
None				
Description and I	ocation			
The project will replace or re	hab structurally deficient, 24" VC	CP sewers, as well as investigate the		
feasibility and possible construction of a relief sewer to a nearby interceptor. This project is located in				
the Westwood neighborhood	of the City of Cincinnati, Hamilto	on County, Ohio		
	Project Title Muddy Project ID 102300 Project Type Sewer R Impact to Operat None Description and I The project will replace or rel feasibility and possible constr	Project Title Muddy Creek Road and Roset Project ID 10230655 CIP Number Project Type Sewer Replacement Impact to Operating Budget Impact to Operating Budget None Description and Location The project will replace or rehab structurally deficient, 24" VC		

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$0	\$0	\$68,000	\$0	\$68,000
Design	\$86,000	\$0	\$0	\$86,000	\$86,000
Pre-Construction Services	\$15,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$120,000	\$0	\$0	\$120,000	\$120,000
Right-of-Way	\$7,500	\$0	\$0	\$9,000	\$9,000
Construction	\$400,000	\$0	\$0	\$400,000	\$400,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$52,000	\$0	\$0	\$52,000	\$52,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$680,500	\$0	\$68,000	\$667,000	\$735,000
5 Year Projected Legislation					
Prior Legislation	2021 202	2 2023	2024	2025	Project Total

\$0

\$452,000

\$735,000

Prior Legislation Action

\$0

\$68,000

\$215,000

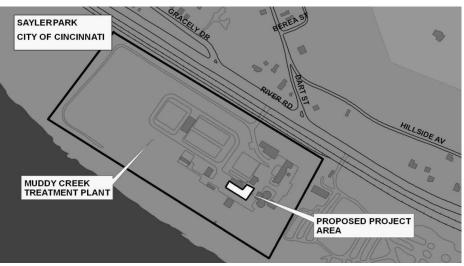


2021 Capital Budget and Capital Improvement Program	Department Metropolitan Sewer District of Greater Cincinnati Project Title MUWWTP Thickening Replacement and Pumping Improvements				
Wednesday, December 16, 2020	Project ID10232015CIP Number10232015CD Index # NAProject TypeTreatment FacilitySewer Number6982				
Purpose and Justification	Impact to Operating Budget				
This project was identified as a priority project in MSD's	None				
Solids Handling Master Plan and is intended to address					
failing assets at the plant. The existing gravity belt					
thickeners have reached the end of their useful life and will	Description and Location				
be replaced as part of this project. Thickening building	This project will include the replacement of existing gravity belt thickeners, thickening building				
modifications are required to accommodate the replacement	modifications to accommodate replacement equipment, new polymer skid and bulk storage, odor control, and feed				
equipment. Additionally, waste activated sludge (WAS) at the	pumps. It will also eliminate waste activated sludge (WAS) double pumping when replacing pumps and replace				
facility is double pumped and improvements will be made to	aging primary sludge pumps and controls. This project is located within the MUWWTP in the Sayler Park				
eliminate this double pumping when replacing pumps.	neighborhood of the City of Cincinnati.				

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$0	\$67,634	\$0	\$0	\$67,634
Design	\$325,000	\$402,366	\$0	\$0	\$402,366
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$40,000	\$40,000	\$0	\$0	\$40,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$1,929,000	\$0	\$3,000,000	\$0	\$3,000,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$239,000	\$0	\$350,000	\$0	\$350,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$2,533,000	\$510,000	\$3,350,000	\$0	\$3,860,000

5 Year Projected Legislat	tion					
Prior Legislation	2021	2022	2023	2024	2025	Project Total
\$510,000	\$3,350,000	\$0	\$0	\$0	\$0	\$3,860,000

Feb 2020,Apr 2020



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2021 Capital Budget and Capital Improvement Program	DepartmentMetropolitan Sewer District of Greater CincinnatiProject Title3731 Glenmore Avenue Sewer Evaluation
Wednesday, December 16, 2020	Project ID 10232025 CIP Number 10232025 CD Index # N/A Project Type Sewer Replacement Sewer Number 7045
Purpose and Justification	Impact to Operating Budget
In 2011 WWC nominated 9 pipe segments for structural	
condition, capacity, and location beneath a structure.	
Previous planning efforts recommended CIPP Lining, but WWC	
has requested re-evaluation of that recommendation. The	Description and Location
planning project is to evaluate alternatives to address the	The project is located in Green Township, Hamilton County, near the intersection of Glenmore Avenue and
condition and location of the sewer.	Harrison Avenue Planning efforts include CCTV inspection, local flow monitoring, model updates, alternatives
	analysis, and development of a BCE with recommendation. The project includes approximately 975 feet of 24 to
	36 inch sewer.

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$66,000	\$0	\$32,000	\$0	\$32,000
Design	\$83,000	\$0	\$0	\$83,000	\$83,000
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$71,000	\$0	\$0	\$71,000	\$71,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$380,000	\$0	\$0	\$380,000	\$380,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$600,000	\$0	\$32,000	\$534,000	\$566,000
5 Year Projected Legislation					
Prior Legislation	2021 202	2023	2024	2025	Project Total
**	***	4.000 00		****	* * * * *

\$0

\$0

\$566,000

\$380,000

\$0

\$32,000

\$154,000

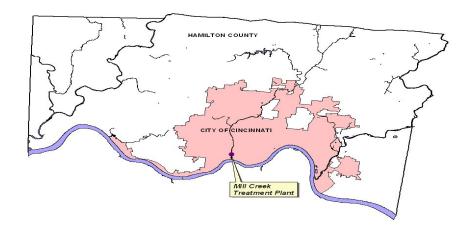


2021 Capital Budget and Capital Improvement Program	DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitleMCWWTP Liquid Sludge Storage Tank Covers and Odor Control					
Wednesday, December 16, 2020	Project ID10240055CIP Number10240055CD Index # NAProject TypeTreatment FacilitySewer Number6667					
Purpose and Justification	Impact to Operating Budget					
To replace the existing covers that have exceeded their	None.					
useful life and are a clear and present danger to employees.						
The replacement will also allow for new odor control to be						
provided to capture and treat the emissions that are	Description and Location					
currently untreated.	This project will provide an engineering design for new covers for existing sludge holding tanks A1 and A2.					
	The scope will include demolition of the existing covers, design of the new covers, and a new odor control					
	system to capture and treat odorous air from the two tanks. All necessary Structural, Electrical, I&C, and					
	Mechanical drawings and specifications are to be included. Services for construction administration will also					
	include submittal review, meetings, bidding assistance, permits, SCADA, and training. This project is located					
	at the Mill Creek WWTP in the Lower Price Hill neighborhood of the City of Cincinnati					

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$340,000	\$474,802	\$0	\$0	\$474,802
Pre-Construction Services	\$70,000	\$70,000	\$0	\$0	\$70,000
Miscellaneous Expense	\$40,000	\$40,000	\$0	\$0	\$40,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$3,500,000	\$0	\$7,473,393	\$0	\$7,473,393
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$718,000	\$0	\$425,000	\$0	\$425,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$4,668,000	\$584,802	\$7,898,393	\$0	\$8,483,195

5 Year Projected Legislati	on					
Prior Legislation	2021	2022	2023	2024	2025	Project Total
\$584,802	\$7,898,393	\$0	\$0	\$0	\$0	\$8,483,195

Dec 2017,Aug 2019,Jul 2020,Sep 2020



2021 Capital Budget and Capital Improvement Program	DepartmentMetropolitan Sewer District of Greater CincinnatiProject Title3934 Winding Way Sewer Replacement
Wednesday, December 16, 2020	Project ID 10240180 CIP Number 2008-42 CD Index #NA
Purpose and Justification	Project Type Sewer Replacement Sewer Number 6250 Impact to Operating Budget
This project will abandon a severely deteriorated sewer and redirect one house connection. The abandoned sewer will be filled and sealed.	None. Description and Location The proposed 3934 Winding Way Sewer Replacement project will fill, seal, and abandon 20 linear feet of combined sewer; construct approximately 575 linear feet of 12-18-inch diameter combined sewer between Winding Way and Victory Parkway; and reconnect two sewer laterals. This project is located between Winding Way and Victory Parkway in the City of Cincinnati.

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$0	\$2,189	\$0	\$0	\$2,189
Design	\$10,400	\$0	\$0	\$0	\$0
Pre-Construction Services	\$2,800	\$78,500	\$0	\$0	\$78,500
Miscellaneous Expense	\$5,200	\$28,700	\$0	\$0	\$28,700
Right-of-Way	\$34,300	\$39,400	\$0	\$0	\$39,400
Construction	\$73,300	\$0	\$337,800	\$0	\$337,800
Program Management	\$0	\$2,588	\$0	\$0	\$2,588
Construction Services	\$38,000	\$0	\$50,500	\$0	\$50,500
Interest / Financing	\$800	\$0	\$0	\$0	\$0
Total	\$164,800	\$151,377	\$388,300	\$0	\$539,677
5 Year Projected Legislation					
Prior Legislation	2021 202	2 2023	2024	2025	Project Total

\$0

\$0

\$0

\$539,677

Prior	Legis	lation	Action
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\$151,377

Dec 2007, Dec 2009, May 2014, Nov 2014, Jan 2019, Feb 2020

\$388,300

\$0

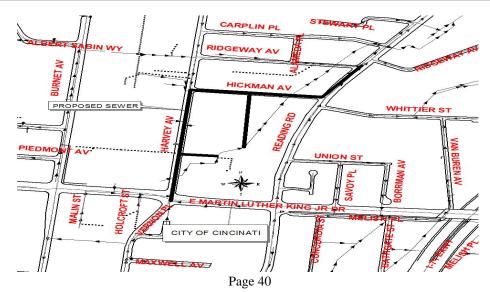


2021 Capital Budget and Capital Improvement Program	DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitleHarvey Ave-Hickman Ave Sewer Replacement
Wednesday, December 16, 2020	Project ID10240200CIP Number2008-45CD Index #NAProject TypeSewer ReplacementSewer Number6647
Purpose and Justification	Impact to Operating Budget
The purpose of this project is to replace a deteriorated 24"	None
sewer and reduce maintenance costs. This project will also	
increase capacity and facilitate redevelopment in the area	
near Jewish Hospital.	Description and Location
	This project is located in Reading Road, Ridgeway Avenue, and Harvey Avenue in the Cincinnati neighborhood of
	Avondale. This project will construct about 4000 feet of sewer and abandon an existing deteriorated 24" sewer.

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$190,000	\$0	\$250,000	\$0	\$250,000
Pre-Construction Services	\$109,600	\$4,308	\$500	\$0	\$4,808
Miscellaneous Expense	\$390,000	\$0	\$390,000	\$0	\$390,000
Right-of-Way	\$105,000	\$176	\$105,000	\$0	\$105,176
Construction	\$1,660,200	\$0	\$0	\$1,400,000	\$1,400,000
Program Management	\$0	\$394	\$0	\$0	\$394
Construction Services	\$262,700	\$0	\$0	\$40,000	\$40,000
Interest / Financing	\$86,700	\$0	\$0	\$0	\$0
Total	\$2,804,200	\$4,878	\$745,500	\$1,440,000	\$2,190,378

5 Tear Trojecteu Legislation	1							
Prior Legislation	2021	2022	2023	2024	2025		Project Total	
\$4,878	\$745,500	\$0	\$0	\$1,440,000		\$0	\$2,190,378	

Dec 2007, May 2014, Aug 2017, Apr 2020

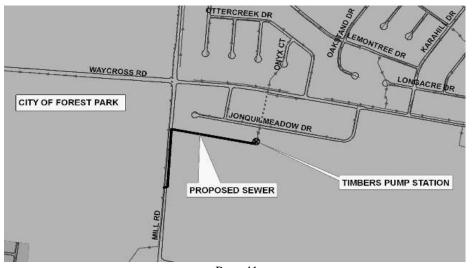


2021 Capital Budget and Capital Improvement Program	DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitleTimbers Pump Station Elimination
Wednesday, December 16, 2020	Project ID10240360CIP Number10240360CD Index # NAProject TypePump Station Improvement/ElimSewer Number6313
Purpose and Justification	Impact to Operating Budget
The purpose of this project is to eliminate the Timbers Pump	None.
Station that was installed in 1980 to serve 37 homes. The	
functionality of the pump station is insufficient in terms of	
handling wet weather flow. Structurally, this station is not	Description and Location
sound because of the metal wet well that has been in the	This project includes construction of approximately 1,600 feet of 8-inch diameter gravity sewer via a
ground for more than 30 years. The size of the well is small.	jack-and-bore alignment through the Winton Woods Park. The pump station is located in City of Forest Park,
This metal wet well has the risk of having continuous flow	Hamilton County, Ohio.
into it, which will cause continuous pumping, weakening the	
soil around it that will likely cause structural failure.	
After the gravity sewer is constructed, the pump station will	
be decommissioned and parts salvaged.	

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$0	\$5,262	\$0	\$0	\$5,262
Design	\$166,500	\$0	\$0	\$0	\$0
Pre-Construction Services	\$41,200	\$207,700	\$0	\$0	\$207,700
Miscellaneous Expense	\$51,000	\$51,000	\$0	\$0	\$51,000
Right-of-Way	\$21,900	\$21,900	\$0	\$0	\$21,900
Construction	\$1,371,100	\$0	\$1,773,000	\$0	\$1,773,000
Program Management	\$0	\$6,718	\$0	\$0	\$6,718
Construction Services	\$64,500	\$0	\$0	\$0	\$0
Interest / Financing	\$22,400	\$0	\$0	\$0	\$0
Total	\$1,738,600	\$292,580	\$1,773,000	\$0	\$2,065,580

5 Year Projected Legislation	1					
Prior Legislation	2021	2022	2023	2024	2025	Project Total
\$292,580	\$1,773,000	\$0	\$0	\$0	\$0	\$2,065,580

Dec 2012, May 2014, Nov 2014

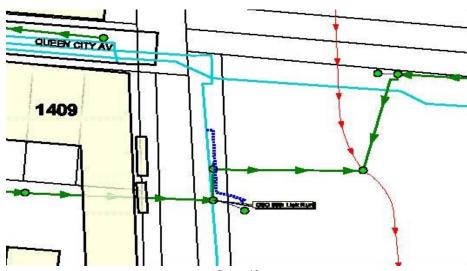


2021 Capital Budget and Capital Improvement Program	Department Metropolitan Sewer District of Greater Cincinnati Project Title CSO 005 Water Connection				
Wednesday, December 16, 2020	Project ID10240380CIP Number10240380CD Index # NAProject TypeCSO Improvement/ElimSewer Number6334				
Purpose and Justification	Impact to Operating Budget				
This CSO facility allows combined sewage to overflow into the	None.				
Mill Creek at times when the capacity of the 24-inch					
underflow pipe has been exceeded. The facility was recently					
upgraded with Real Time Control in order to take advantage of	Description and Location				
storage capacity in the existing Lick Run Trunk Sewer. MSD	MSD proposes to construct a permanent water service connection from the 8" water main on Queen City Ave. 270				
has discovered that using the CSO chamber for storage results	linear feet of 6-inch ductile iron pipe water service, one Railroad crossing, a water cannon, a yard hydrant				
in a substantial buildup of sediment. This project will	with 2.5-inch diameter house connection hose and other appurtenance. During design it was determined any				
provide a safe and effective means for cleaning and removal	connection to the 36" water main on site would be temporary because water main is to be relocated as part of				
of sediment at the CSO facility, which is necessary in order	the Lick Run Valley Conveyance System, therefore the service lateral was extended to the nearest active main.				
to stay in compliance with the CSO NPDES permit.	This project is located in the South Fairmount neighborhood of the City of Cincinnati, Hamilton County, Ohio.				

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$0	\$17,261	\$0	\$0	\$17,261
Design	\$17,300	\$0	\$0	\$0	\$0
Pre-Construction Services	\$1,800	\$64,000	\$0	\$0	\$64,000
Miscellaneous Expense	\$7,300	\$7,300	\$0	\$0	\$7,300
Right-of-Way	\$0	\$50,000	\$0	\$0	\$50,000
Construction	\$60,400	\$0	\$124,300	\$0	\$124,300
Program Management	\$0	\$1,928	\$0	\$0	\$1,928
Construction Services	\$10,600	\$0	\$10,000	\$0	\$10,000
Interest / Financing	\$300	\$0	\$0	\$0	\$0
Total	\$97,700	\$140,489	\$134,300	\$0	\$274,789

5 Year Projected Legislation	0 n					
Prior Legislation	2021	2022	2023	2024	2025	Project Total
\$140,489	\$134,300	\$0	\$0	\$0	\$0	\$274,789

May 2013, May 2014, Aug 2016, Oct 2016, Feb 2017, Feb 2020

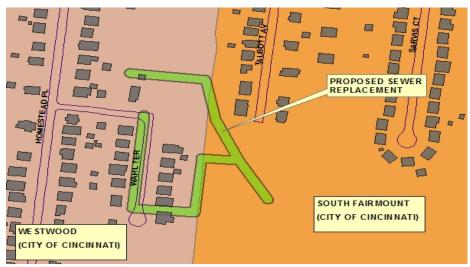


2021 Capital Budget and Capital Improvement Program	DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitleWahl Terrace Sewer Replacement
Wednesday, December 16, 2020	Project ID10240495CIP Number10240495CD Index # NAProject TypeSewer ReplacementSewer Number6781
Purpose and Justification	Impact to Operating Budget
The project is to replace and line deteriorated sewer	None.
segments constructed in 1916 and 1917. The existing sewers	
are buckling and collapsing and are difficult to maintain.	
Due to the current structural condition of the sewers, there	Description and Location
is a risk of ultimate collapse and the inability to	This project entails the replacement of approximately 1,170 feet of 8 to 18-inch combined sewers and lining of
appropriately maintain the sewers that can lead to sewer	approximately 330 feet of 12-inch combined sewer due to the existing structural condition and inability to
discharges to the environment and sewer backups (SBU).	effectively maintain the sewers. The subdivision is located south of Harrison Avenue and just north of the
	Lick Run Valley Conveyance project. The project is located in the Westwood and South Fairmount neighborhoods
	of the City of Cincinnati.

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$0	\$10,303	\$0	\$0	\$10,303
Design	\$99,400	\$79,700	\$0	\$0	\$79,700
Pre-Construction Services	\$43,000	\$53,900	\$0	\$0	\$53,900
Miscellaneous Expense	\$112,400	\$29,800	\$0	\$0	\$29,800
Right-of-Way	\$323,000	\$87,800	\$0	\$0	\$87,800
Construction	\$729,800	\$0	\$648,400	\$0	\$648,400
Program Management	\$0	\$1,151	\$0	\$0	\$1,151
Construction Services	\$53,700	\$0	\$10,000	\$0	\$10,000
Interest / Financing	\$9,000	\$0	\$0	\$0	\$0
Total	\$1,370,300	\$262,654	\$658,400	\$0	\$921,054

5 Year Projected Legislation	l					
Prior Legislation	2021	2022	2023	2024	2025	Project Total
\$262,654	\$658,400	\$0	\$0	\$0	\$0	\$921,054

May 2014, Mar 2016, Nov 2019

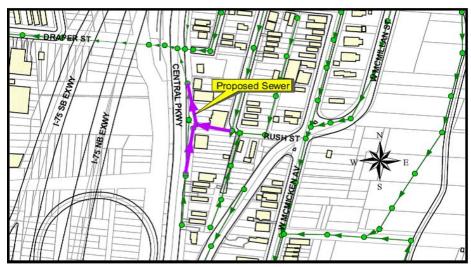


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2021 Capital Budget and Capital Improvement Program	* *	strict of Greater Cincinnati er Replacement (HN 2402)
Wednesday, December 16, 2020	Project ID 10240545 C Project Type Sewer Replacement	CIP Number 10240545 CD Index # NA Sewer Number 7064
Purpose and Justification	Impact to Operating Budget	
The existing pipe segments were installed in 1903 and 1907	None.	
and are near the end of their useful life. The existing pipe		
segments are combined sewers, and show fracturing at multiple		
locations, and have areas of substantial shape loss with some	Description and Location	
sections of the pipe having fallen in to the sewer.	The proposed Central Parkway Sewer Replacement	nt project will fill, seal, and abandon 1100 linear feet of
	combined sewer; construct approximately 600 line	ear feet of 12 to 24-inch diameter combined sewer along the
	east side of Central Parkway, including 8 new mar	nholes and reconnecting 15 sewer laterals. This project is
	located in the vicinity of 2402 Central Parkway, ju	

Cost Description	Original Project	Prior Legislation	on Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$0	\$28,210	\$0	\$0	\$28,210
Design	\$54,900	\$57,500	\$0	\$0	\$57,500
Pre-Construction Services	\$18,100	\$58,100	\$0	\$0	\$58,100
Miscellaneous Expense	\$43,300	\$40,700	\$0	\$0	\$40,700
Right-of-Way	\$12,900	\$12,900	\$0	\$0	\$12,900
Construction	\$302,200	\$0	\$434,000	\$0	\$434,000
Program Management	\$0	\$3,201	\$0	\$0	\$3,201
Construction Services	\$40,100	\$0	\$10,000	\$0	\$10,000
Interest / Financing	\$3,800	\$0	\$0	\$0	\$0
Total	\$475,300	\$20	0,611 \$444,0	00 \$0	\$644,611
5 Year Projected Legislation					
Prior Legislation	2021 20)22 2	023 2024	2025	Project Total
\$200,611	\$444,000	\$0	\$0	\$0	\$0 \$644,611

May 2014, Dec 2014, Apr 2017, Dec 2020



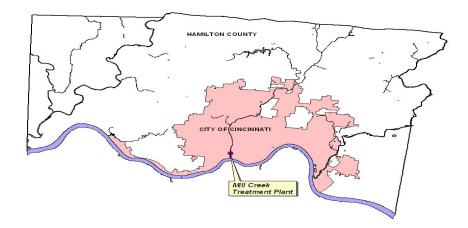
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2021 Capital Budget and Capital Improvement Program	Department Project Title		ver District of Grea adby Power Distri	ater Cincinnati ibution System Improvements
Wednesday, December 16, 2020	Project ID Project Type	10240625 Treatment Facility	CIP Number	10240625 CD Index #NA Sewer Number 6866
Purpose and Justification	Impact to	Operating Bud	get	
The MCWWTP Standby Power project will upgrade critical	None			
distribution assets at MCWWTP to improve reliability and				
maintainability of the standby power system. The standby				
power system project includes replacement of standby	Description	n and Location		
engine-generator, copper bus distribution system, and local	The Project will in	ncrease the reliability of	MCWWTP's current sta	ndby power distribution system at 1600 Gest
process area transfer switches and power panels. This will	Street, Cincinnati,	OH 45204. This project	t is in the Lower Price H	Iill neighborhood of the City of Cincinnati.
limit risk to MSDGC operations during power outage at MCWWTP.				

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	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	\$3,849,261	\$0	\$3,849,261
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$309,000	\$0	\$790,000	\$0	\$790,000
Interest / Financing	\$129,000	\$0	\$0	\$0	\$0
Total	\$4,326,000	\$554,917	\$4,639,261	\$0	\$5,194,178

5 Tear Projected Legislat	1011					
Prior Legislation	2021	2022	2023	2024	2025	Project Total
\$554,917	\$4,639,261	\$0	\$0	\$0	\$0	\$5,194,178

Jan 2019,Jul 2020

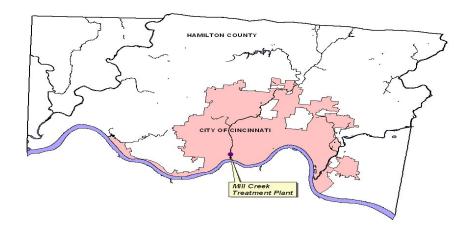


2021 Capital Budget and Capital Improvement Program	DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitleMill Creek 4.16 kV & 13.2 kV Loop Improvements
Wednesday, December 16, 2020	Project ID 10240697 CIP Number 10240697 CD Index # NA Project Type Treatment Facility Sewer Number 6867
Purpose and Justification	Impact to Operating Budget
The project will improve the critical MSD owned high and	None.
medium voltage assets within the existing 4.16kV and 13.2kV	
distribution loop systems at MCWWTP to increase the	
reliability and reduce the high risk of failure. Assets to be	Description and Location
replaced include equipment operating past the end of useful	The Project will upgrade the existing at-risk 4.16kV and 13.2kV distribution loop equipment not currently
life, equipment no longer supported by manufacturer and	being planned for replacement with other projects in MCWWTP. This project is in the Lower Price Hill
equipment operating at risk of failure.	neighborhood of the City of Cincinnati.

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	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	\$1,773,627	\$0	\$1,773,627
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	\$2,283,627	\$0	\$2,647,895

5 Year Projected Legislat	ion					
Prior Legislation	2021	2022	2023	2024	2025	Project Total
\$364,268	\$2,283,627	\$0	\$0	\$0	\$0	\$2,647,895

Jan 2019,Sep 2020



2021 Capital Budget and Capital Improvement Program	DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitleVictory Parkway at Ledgewood Drive Sewer Replacement
Wednesday, December 16, 2020	Project ID 10240755 CIP Number 10240755 CD Index # NA Project Type Sewer Replacement Sewer Number 6688
Purpose and Justification	Impact to Operating Budget
MSD Collection has assigned a structural risk bin score of 19	None.
(high) to one of the segments included in the	
evaluation, and has recommended a BCE.	
	Description and Location
	Planning effort to address structural defects in a 120" Brick sewer. Sewer segments 37709015-37716021
	and 37716021-37716006 are included in the planned evaluation. This project is located in the City of
	Cincinnati, Hamilton County, Ohio.

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$150,000	\$0	\$250,000	\$0	\$250,000
Pre-Construction Services	\$32,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$270,000	\$0	\$270,000	\$0	\$270,000
Right-of-Way	\$0	\$0	\$5,000	\$0	\$5,000
Construction	\$920,000	\$0	\$0	\$920,000	\$920,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$110,000	\$0	\$0	\$40,000	\$40,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$1,482,000	\$0	\$525,000	\$960,000	\$1,485,000
5 Year Projected Legislation					
Prior Legislation	2021 202	2 2023	2024	2025	Project Total

\$960,000

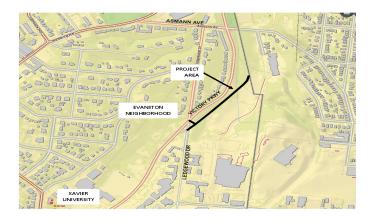
\$0

\$1,485,000

Prior Legislation Action

\$0

\$525,000



2021 Capital Budget and Capital Improvement Program	DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitleHighland and Burnet Sewer Replacement
Wednesday, December 16, 2020	Project ID10240760CIP Number10240760CD Index # NAProject TypeSewer ReplacementSewer Number6689
Purpose and Justification	Impact to Operating Budget
MSD Collection has assigned a structural risk bin score of 25	None.
(severe) to one of the segments included in	
the evaluation, and has recommended a BCE.	
	Description and Location
	Planning effort to address structural defects in a 21" VCP sewer running beneath multiple residences. Sewer
	segments 33615060-33615059, 33615059-33615047, 33615047-33615046, 33615046-33614003, 33614003-33614002,
	33614002-33611024, 33611024-33611025, 33611025-33611075, and 33611075-33611027 are included in the planned
	evaluation. This project is located in the Mt Auburn neighborhood of the City of Cincinnati, Hamilton County,
	Ohio.

Cost Description	Origin	al Project	Prior Legislation	Current	Future	Current Project
	Esti	mate		Legislation	Legislation	Estimate
Planning		\$0	\$0	\$0	\$0	\$0
Design	\$	270,000	\$0	\$34,600	\$0	\$34,600
Pre-Construction Services		\$73,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$	610,000	\$0	\$35,900	\$0	\$35,900
Right-of-Way	\$	105,000	\$0	\$8,000	\$0	\$8,000
Construction	\$2,	,100,000	\$0	\$0	\$192,400	\$192,400
Program Management		\$0	\$0	\$0	\$0	\$0
Construction Services	\$	250,000	\$0	\$0	\$8,000	\$8,000
Interest / Financing		\$0	\$0	\$0	\$0	\$0
Total	\$3,	,408,000	\$0	\$78,500	\$200,400	\$278,900
5 Year Projected Legislation						
Prior Legislation	2021	2022	2 2023	2024	2025	Project Total

\$200,400

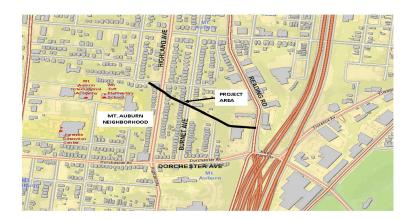
\$278,900

\$0

Prior Legislation Action

\$0

\$78,500



2021 Capital Budget and Capital Improvement Program	DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitleGilbert Avenue at Casino Sewer Replacement
Wednesday, December 16, 2020	Project ID 10240775 CIP Number 10240775 CD Index # NA Project Type Sewer Replacement Sewer Number 6694
Purpose and Justification	Impact to Operating Budget
The project includes three segments that have been requested	None.
for a BCE by the WWC Gravity Sewer Asset Management system	
with structural risks of 20, 24, and 24. These three	
segments and all others included in the project will be	Description and Location
investigated to determine how to address structural and	Project to address 8"-114" combined sewer pipe installed in 1881 in deteriorating condition and possible
capacity concerns.	capacity concerns. Many of the segments are under or in close proximity to the casino. Segments include
	33515063-33515035, 33603063-33514051, 33515035-33510057, 33510057-33510106, 33515045-33515044,
	33515040-33515063, 33514051-33515045, 33515042-33515040, 33515041-33515042, 33515039-33515040,
	33515062-33515045, 33515061-33515062, and 33515044-33515042. This project is located in the Downtown area of
	the City of Cincinnati, Hamilton County, Ohio.

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$520,000	\$0	\$322,600	\$0	\$322,600
Pre-Construction Services	\$180,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$1,500,000	\$0	\$105,100	\$0	\$105,100
Right-of-Way	\$75,000	\$0	\$75,000	\$0	\$75,000
Construction	\$4,900,000	\$0	\$0	\$4,900,000	\$4,900,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$610,000	\$0	\$0	\$24,700	\$24,700
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$7,785,000	\$0	\$502,700	\$4,924,700	\$5,427,400
5 Year Projected Legislation					
Prior Legislation	2021 202	2 2023	2024	2025	Project Total

\$4,924,700

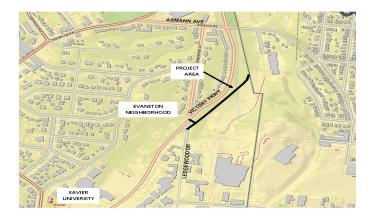
\$0

\$5,427,400

Prior Legislation Action

\$0

\$502,700



2021 Capital Budget and Capital Improvement Program	DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitleReading Road at Stewart Place Sewer Replacement
Wednesday, December 16, 2020	Project ID 10240820 CIP Number 10240820 CD Index #NA
	Project Type Sewer Replacement Sewer Number 6707
Purpose and Justification	Impact to Operating Budget
The BCER pipe segment was last inspected by CCTV in 2010. The	None.
inspection identified infiltration, fractures, and a broken	
pipe. The WWC GSAM asset management system identified the	
segment, with structural risk bin score of 23, for lining	Description and Location
rehabilitation, however the pipe is located beneath a	Planning efforts include CCTV inspection, alternatives analysis, and development of a BCE with recommendation.
commercial structure located at 3328 Reading Road. The	Pipe segment 33812041-36909017 is approximately 108 feet of 39-inch combined sewer installed in 1913.
planning project is to evaluate alternatives to address the	Additional segments included in the planning analysis are:
condition and location of the sewer. The other pipe segments	33812017-33812018-3812022-33812041-36909017-36909016, and 33812040-33812047-33812041. This project is locate
included in the evaluation have structural risk bin scores	in the Avondale neighborhood of the City of Cincinnati, Hamilton County, Ohio.
ranging from 6-20, but would also potentially need to be	
relocated in the sewer alignment changes.	

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$51,000	\$0	\$0	\$0	\$0
Design	\$61,000	\$0	\$240,000	\$0	\$240,000
Pre-Construction Services	\$9,800	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$81,000	\$0	\$81,000	\$0	\$81,000
Right-of-Way	\$45,000	\$0	\$45,000	\$0	\$45,000
Construction	\$290,000	\$0	\$0	\$290,000	\$290,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$34,000	\$0	\$0	\$10,000	\$10,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$571,800	\$0	\$366,000	\$300,000	\$666,000

2023

\$0

2024

\$300,000

2025

\$0

Project Total

\$666,000

Prior Legislation Action

\$0

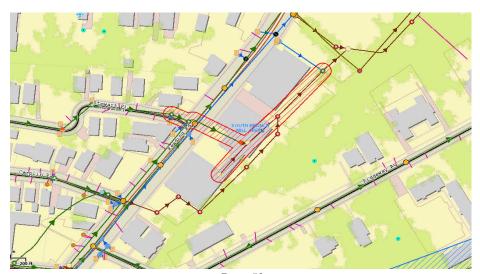
2021

\$366,000

2022

\$0

Prior Legislation



2021 Capital Budget and Capital Improvement Program	DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitleTaft Road & McMillan Street Sewer Replacement
Wednesday, December 16, 2020	Project ID10240845CIP Number10240845CD Index # NAProject TypeSewer ReplacementSewer Number6775
Purpose and Justification	Impact to Operating Budget
The project includes one segment that has been requested for	None
a BCE by the WWC Gravity Sewer Asset Management system with a	
structural risk of 25 and a segment under structures. These	
segments and all others included in the project will be	Description and Location
investigated to determine how to address the structural	The project will replace or rehab structurally deficient, 52" stone sewer located under or near residential
concerns and to investigate whether improved capacity will	structures, and investigate the feasibility and possible construction of a new alignment to provide relief to
reduce sewer backups in the area.	the local sewer main. This project is located in the East Walnut Hill neighborhood of the City of Cincinnati,
	Hamilton County, Ohio.

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$0	\$0	\$420,000	\$0	\$420,000
Design	\$710,000	\$0	\$0	\$710,000	\$710,000
Pre-Construction Services	\$270,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$2,200,000	\$0	\$0	\$2,200,000	\$2,200,000
Right-of-Way	\$142,500	\$0	\$0	\$142,500	\$142,500
Construction	\$7,200,000	\$0	\$0	\$7,200,000	\$7,200,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$930,000	\$0	\$0	\$930,000	\$930,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$11,452,500	\$0	\$420,000	\$11,182,500	\$11,602,500
5 Year Projected Legislation					
Prior Legislation	2021 202	2023	2024	2025	Project Total

\$0

\$3,052,500

\$420,000

Project Total \$11,602,500

\$0

\$8,130,000

Prior I	Legislatio	on Action
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\$0

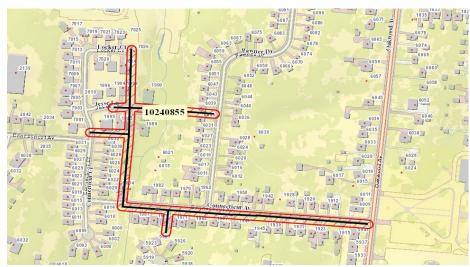


2021 Capital Budget and Capital Improvement Program	DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitleConnecticut Avenue Sewer Replacement				
Wednesday, December 16, 2020	Project ID 10240855 Project Type Sewer Replacement	CIP Number 10240855 CD Index # NA Sewer Number 6778			
Purpose and Justification	mpact to Operating Bud	lget			
The project includes one segment that has been requested for	Ione				
a BCE by the WWC Gravity Sewer Asset Management system with a					
structural risk of 23. These segments and all others					
included in the project will be investigated to determine how	Description and Location	1			
to address the structural concerns and to investigate whether	he project is to evaluate sewer replacem	ent and existing capacity serving the homes on the east side of the			
improved capacity will reduce sewer backups in the area.	000 block of Connecticut Ct. Analysis	will be performed to evaluate potential benefits to homes upstream of			
	aid street, along Connecticut Avenue, as	well as Pawnee Drive which connects at the downstream end of said			
	000 block. This project is located in the	College Hill neighborhood of the City of Cincinnati, Hamilton			
	County, Ohio				

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$0	\$220,000	\$0	\$0	\$220,000
Design	\$290,000	\$0	\$368,700	\$0	\$368,700
Pre-Construction Services	\$78,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$650,000	\$0	\$118,300	\$0	\$118,300
Right-of-Way	\$120,000	\$0	\$179,000	\$0	\$179,000
Construction	\$2,100,000	\$0	\$0	\$3,064,000	\$3,064,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$270,000	\$0	\$0	\$98,600	\$98,600
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$3,508,000	\$220,000	\$666,000	\$3,162,600	\$4,048,600

5 Year Projected Legislation						
Prior Legislation	2021	2022	2023	2024	2025	Project Total
\$220,000	\$666,000	\$0	\$3,162,600	\$0	\$0	\$4,048,600

Jan 2020

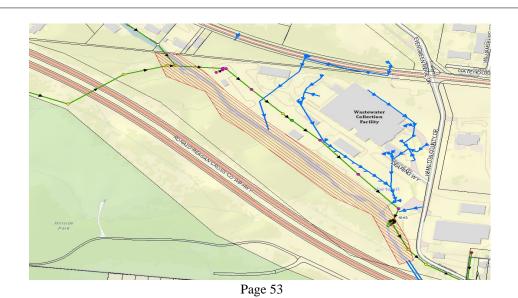




2021 Capital Budget and Capital Improvement Program	DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitleCongress Run Stream Restoration and Bank Stabilization		
Wednesday, December 16, 2020	Project ID 10241905 CIP Number 10241905 CD Index #NA Project Type Supplemental Environmental Prj Sewer Number 6843		
Purpose and Justification	Impact to Operating Budget		
Congress Run is a tributary stream to Mill Creek located in	None		
the Hartwell neighborhood of the City of Cincinnati that runs			
along the MSD- Wastewater Collection Division (WWC) facility.			
The stream was modified during the construction of WWC in the	Description and Location		
1970s which altered the hydraulics of the stream. This	This project will provide a solution to mitigate the erosion issues, stabilize the stream, protect existing		
project will alleviate the issues created by the original	infrastructure. Severe erosion poses a threat to the existing WWC facility and multiple sewers and building		
modifications so that stream bank erosion no longer poses a	lateral crossings in the area of the project. Previous efforts to reinforce existing infrastructure from		
threat to the existing MSD infrastructure. Modifications will	further erosion were unsuccessful. This project is located in the Hartwell neighborhood of the City of		
include: bank stabilization, creek restoration, and	Cincinnati, Hamilton County, Ohio.		
replacement of sewers located underneath the creek.			

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$0	\$0	\$166,000	\$0	\$166,000
Design	\$0	\$0	\$0	\$276,000	\$276,000
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$0	\$0	\$0	\$20,000	\$20,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$2,008,000	\$2,008,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$209,000	\$209,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$0		\$0 \$166,000) \$2,513,000	\$2,679,000
5 Year Projected Legislation					
Prior Legislation	2021 20	202 202	3 2024	2025	Project Total
\$0	\$166,000 \$2	96,000 \$2,217	7,000	\$0	\$0 \$2,679,000

Prior	Legislation	Action
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2021 Capital Budget and Capital Improvement Program	-	· ·			
Wednesday, December 16, 2020		10242025	CIP Number	10242025 CD Index #NA	
Purpose and Justification		Sewer Replacement perating Budg	rot	Sewer Number 6849	
-	-	per anng Duuş	zei		
This pipes in this project have structural issues that will	None				
be addressed. Sewer segments have been scored from high to					
extreme risk and require replacement or remediation in					
accordance with the Gravity Sewer Asset Management protocol.	Description	and Location			
A 2018 video of sewers identified significant cracks, voids,	The project will add	ress deteriorating sewer	rs located between Dav	ey Avenue, Hamilton Avenue, and north of	
and deformation of pipe sections. A cave-in near portions of	Larch Avenue withir	n the City of Cincinnati	and the neighborhood	of College Hill. The sewer segments are	
the sewer was reported in 2017. The sewers in this project	within the Mill Cree	k basin and Kings Run	watershed. The high t	to extreme risk sewers will be addressed	
are showing structural issues and need to be addressed as	through abandonmer	nt, rehabilitation or repl	lacement. The project of	descriptions and costs are pre-planning	
part of a replacement and rehabilitation project.	level.		1 5		
• • •					

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$76,000	\$199,000	\$0	\$0	\$199,000
Design	\$98,000	\$0	\$148,500	\$0	\$148,500
Pre-Construction Services	\$18,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$150,000	\$0	\$96,000	\$0	\$96,000
Right-of-Way	\$86,000	\$0	\$86,000	\$0	\$86,000
Construction	\$500,000	\$0	\$0	\$500,000	\$500,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$62,000	\$0	\$0	\$13,100	\$13,100
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$990,000	\$199,000	\$330,500	\$513,100	\$1,042,600
5 Year Projected Legislation					
Prior Legislation	2021 20	22 2023	2024	2025	Project Total

Prior Legislation	2021	2022	2023	2024	2025	Project Total
\$199,000	\$330,500	\$0	\$0	\$513,100	\$	0 \$1,042,600

Jan 2020



Department Project Title	1		
Project ID Project Type	10242035 Sewer Replacement	CIP Number	10242035 CD Index # NA Sewer Number 6851
Impact to	Operating Budg	get	
Description	n and Location		
This project addre	sses approximately 2,000	linear feet of 18-inch vitr	ified clay pipe installed prior to 1900.
These segments,	in the Pendleton neighbor	hood of the City of Cincir	nnati, will be evaluated for rehabilitation
or replacement. A	Il project costs and descr	iptions are pre-planning le	evel.
	Project Title Project ID Project Type Impact to Description This project addre These segments, i	Project Title Reading Road - 1 Replacement Replacement Project ID 10242035 Project Type Sewer Replacement Impact to Operating Budg Description and Location This project addresses approximately 2,000 These segments, in the Pendleton neighbor	Project Title Reading Road - 12th Street to E Lik Replacement Project ID 10242035 CIP Number Project Type Sewer Replacement

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$160,000	\$0	\$0	\$0	\$0
Design	\$240,000	\$0	\$240,000	\$0	\$240,000
Pre-Construction Services	\$63,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$520,000	\$0	\$98,400	\$0	\$98,400
Right-of-Way	\$30,000	\$0	\$100,000	\$0	\$100,000
Construction	\$1,800,000	\$0	\$0	\$2,780,200	\$2,780,200
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$220,000	\$0	\$0	\$40,000	\$40,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$3,033,000	\$0	\$438,400	\$2,820,200	\$3,258,600
5 Year Projected Legislation					
Prior Legislation	2021 202	22 2023	2024	2025	Project Total

\$2,820,200

\$0

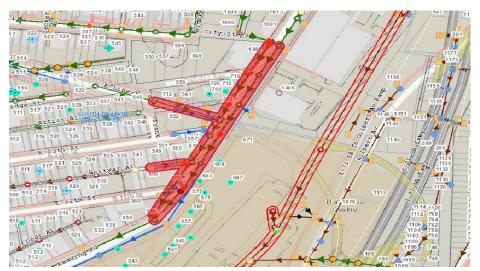
\$3,258,600

\$0

Prior Legislation Action

\$0

\$438,400



2021 Capital Budget and Capital Improvement Program	DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitleVillage Woods Pump Station and System Improvements
Wednesday, December 16, 2020	Project ID 10242085 CIP Number 10242085 CD Index # NA Project Type Pump Station Improvement/Elim Sewer Number 6967
Purpose and Justification	Impact to Operating Budget
The project will increase velocities within a force main	None
serving the neighborhood in order to maintain sewer service	
capacity and pump efficiency. Currently, sediment collects	
in the force main, and the velocities are too low to	Description and Location
appropriately self-clean. The current system creates undue	The project is located within the Village Woods subdivision, in the East Branch Mill Creek watershed and the
risk and maintenance.	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	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$58,000	\$0	\$86,000	\$0	\$86,000
Pre-Construction Services	\$9,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$31,000	\$0	\$50,000	\$0	\$50,000
Right-of-Way	\$15,000	\$0	\$30,000	\$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	\$0	\$166,000	\$524,000	\$690,000
5 Year Projected Legislation					
Prior Legislation	2021 202	2023	2024	2025	Project Total

\$524,000

\$690,000

\$0

Prior Legislation Action

\$0

\$166,000



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2021 Capital Budget and Capital Improvement Program	Department Project Title	Metropolitan Sev Elberon Avenue	wer District of Grea Sewer	ter Cincinnati
Wednesday, December 16, 2020	Project ID Project Type	10242120 Sewer Replacement	CIP Number	10242120 CD Index # NA Sewer Number 6974
Purpose and Justification	Impact to	Operating Bud	get	
The project area includes 4 BCER segments on Elberon Avenue	None			
with structural risk bin scores of 19, 25, 25, and 25.				
Condition assessments identified numerous structural defects				
in these pipes including multiple fractures and cracks. The	Description	1 and Location	L	
pipes are candidates for lining, however the hydraulic model	The project is loca	ted in the City of Cincir	nnati, East Price Hill, on	Elberon Avenue generally between house
indicates surcharging in events as small as the 6-month	numbers 411 and	528 Elberon Avenue. Pla	anning efforts include CO	CTV inspection, flow monitoring, model updates,
storm. The project will evaluate the sewers in this area for	alternatives analys	sis, cost estimating, and	development of a BCE w	vith recommendation. The project area
structural condition as well as capacity.	includes approxim	ately 1,286 feet of 18-3	0 inch diameter sewer.	

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$0	\$0	\$120,000	\$0	\$120,000
Design	\$160,000	\$0	\$0	\$500,000	\$500,000
Pre-Construction Services	\$34,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$290,000	\$0	\$0	\$125,000	\$125,000
Right-of-Way	\$15,000	\$0	\$0	\$15,000	\$15,000
Construction	\$890,000	\$0	\$0	\$890,000	\$890,000
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	\$1,509,000	\$0	\$120,000	\$1,650,000	\$1,770,000
5 Year Projected Legislation					
Prior Legislation	2021 202	2 2023	2024	2025	Project Total

\$0

\$0

\$1,010,000

\$640,000

\$120,000

\$1,770,000

Prior Legislation Action

\$0



2021 Capital Budget and Capital Improvement Program	Department Project Title					
Wednesday, December 16, 2020	Project ID Project Type	10242125 Sewer Replacement	CIP Number	10242125 CD Index #NA Sewer Number 6975		
Purpose and Justification	Impact to	Operating Bud	lget			
The project area includes 2 BCER segments on Sycamore Street	None					
with structural risk bin scores of 21 and 25. Condition						
assessments identified numerous structural defects in these						
pipes including longitudinal and spiral craking. The pipes	Description	n and Location	L			
are candidates for lining, however the hydraulic model	The project is loca	ated in the City of Cincin	nnati, Downtown, on Sy	camore Street between 4th Street and 6th		
indicates surcharging in events as small as the 6-month	Street. Planning et	fforts include CCTV ins	pection, flow monitoring	g, model updates, alternatives analysis, cost		
storm. The project will evaluate the sewers in this area for	estimating, and de	evelopment of a BCE with	th recommendation. The	project area includes approximately 932 feet of		
structural condition as well as capacity.	18-36 inch diamet	ter sewer.				
······						

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$180,000	\$0	\$180,000	\$0	\$180,000
Design	\$260,000	\$0	\$0	\$260,000	\$260,000
Pre-Construction Services	\$66,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$550,000	\$0	\$0	\$550,000	\$550,000
Right-of-Way	\$15,000	\$0	\$0	\$15,000	\$15,000
Construction	\$1,700,000	\$0	\$0	\$1,700,000	\$1,700,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$230,000	\$0	\$0	\$230,000	\$230,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$3,001,000	\$0	\$180,000	\$2,755,000	\$2,935,000
5 Year Projected Legislation					
Prior Legislation	2021 202	2 2023	2024	2025	Project Total

\$0

\$1,930,000

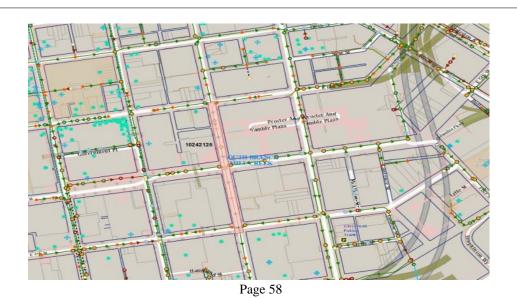
\$2,935,000

Prior Legislation Action

\$0

\$180,000

\$825,000

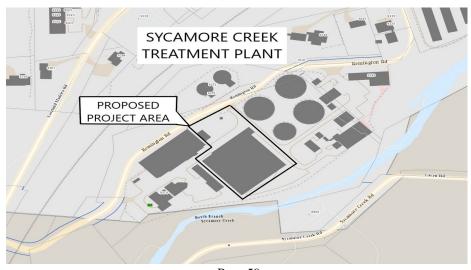


2021 Capital Budget and Capital Improvement Program	Department Metropolitan Sewer District of Greater Cincinnati Project Title SCWWTP Thickening and Settlement Improvements
Wednesday, December 16, 2020	Project ID 10262005 CIP Number 10262005 CD Index #NA
	Project Type Treatment Facility Sewer Number 6983
Purpose and Justification	Impact to Operating Budget
This project was identified as a priority project in MSD's	None
Solids Handling Master Plan and addresses failing assets and	
operational issues with the solids handling facilities and	
associated odor control at the SCWWTP. To expand thickening	Description and Location
capacity and provide more flexible operations, the existing	This project will place the gravity thickener #2 back into service as a gravity thickener, cover the tank and
gravity thickener #2 needs to be put back in service as a	connect it to the existing odor control system. The sludge withdrawal pumps will be replaced and modifications
gravity thickener and covered. The sludge withdrawal pumps	on the aeration tanks will be made to address foam trapping in the liquid stream. This project is located
have reached the end of their useful lives and need replaced.	within the SCWWTP in Sycamore Township of Hamilton County.
Modifications on the aeration tanks are needed to address	
foam trapping in the liquid stream to improve operation and	
sludge settleability.	

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$0	\$34,413	\$0	\$0	\$34,413
Design	\$190,000	\$265,587	\$0	\$0	\$265,587
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	\$800,000	\$0	\$800,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$38,500	\$0	\$150,000	\$0	\$150,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$556,500	\$320,000	\$950,000	\$0	\$1,270,000

5 Year Projected Legislation	on					
Prior Legislation	2021	2022	2023	2024	2025	Project Total
\$320,000	\$950,000	\$0	\$0	\$0	\$0	\$1,270,000

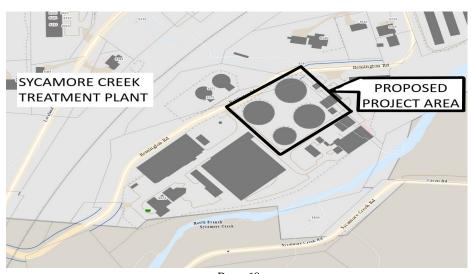
Feb 2020,Apr 2020



2021 Capital Budget and Capital Improvement Program	DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitleSCWWTP Clarifiers				
Wednesday, December 16, 2020	Project ID 10262015 CIP Number 10262015 CD Index #NA				
	Project Type Treatment Facility Sewer Number 7058				
Purpose and Justification	Impact to Operating Budget				
Due to the age of settling tanks #2 (1995) and #3 (1985), the					
concrete floor is starting to fail on both units. Settling					
tank #3 has a large crack and part of the floor is hooved up,					
which is scraping on the bottom collector arm. The floor in	Description and Location				
Secondary Settling tank #2 is raised in multiple places and	This project will repair or replace the clarifier tanks at the Sycamore Creek Wastewater Treatment Plant. The				
the collector arm had to be lifted to allow for proper	clarifier tanks which are nearing the end of their estimated useful life have damage to the concrete floors				
rotation. The collector arms are original to the tanks and	that are impeding their operation. The collector arms, which are original to the tanks, will also be				
should be replaced due to age. Failure to repair these	evaluated for replacement due to their age. This project is located at the Sycamore WWTP in Sycamore				
critical assets can lead to a lowering of effluent quality	Township.				
which can ultimately lead to violating the facility's NPDES					
permit.					

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$227,216	\$0	\$227,216	\$0	\$227,216
Design	\$369,460	\$0	\$0	\$369,460	\$369,460
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$25,000	\$0	\$0	\$25,000	\$25,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$3,323,627	\$0	\$0	\$3,323,627	\$3,323,627
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$681,344	\$0	\$0	\$681,344	\$681,344
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$4,626,647	\$0	\$227,216	\$4,399,431	\$4,626,647

5 Year Projected Legislation	1					
Prior Legislation	2021	2022	2023	2024	2025	Project Total
\$0	\$227,216	\$394,460	\$4,004,971	\$0	\$0	\$4,626,647

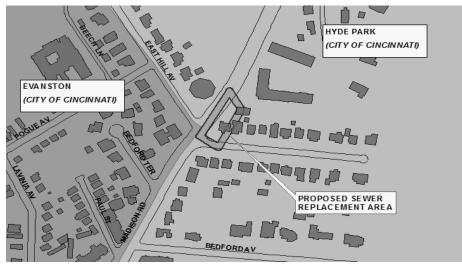


2021 Capital Budget and Capital Improvement Program	Department Metropolitan Sewer District of Greater Cincinnati Project Title East Hill Ave Sewer Replacement				
Wednesday, December 16, 2020	Project ID 10270175 CIP Number 10270175 CD Index #NA				
	Project Type Sewer Replacement Sewer Number 6657				
Purpose and Justification	Impact to Operating Budget				
The purpose of this project is to address a severely	None.				
deteriorated combined sewer segment that is at risk of					
failure. WWC nominated this project in 2011 based on a TV					
inspection that showed multiple quad fractures and	Description and Location				
substantial shape loss throughout the sewer. The nominated	This asset management project located in the Hyde Park neighborhood of the City of Cincinnati. This project				
sewer segments were given structural risk ratings of 20 and	will install approximately 165 of new 18 inch sewer, 399 feet of new 30 inch sewer, and 77 feet of new 36 inch				
10, which rank as high risk of failure. A secondary benefit	sewer to replace and relocate a severely deteriorated 24 inch sewer near East Hill Ave and Madison Road. The				
to this project, but not the driving force of the project, is	new sewer will placed complete outside of the Madison Road ROW and abandon and the existing sewer running				
that it removes a sewer from under three residences and	underneath the three residences will be abandoned.				
replaces this sewer in the public right of way, allowing for					
much easier maintenance in the future and reducing MSD's risk					
from potential property damages.					

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$177,100	\$177,100	\$0	\$0	\$177,100
Pre-Construction Services	\$42,500	\$79,700	\$0	\$0	\$79,700
Miscellaneous Expense	\$43,500	\$43,500	\$0	\$0	\$43,500
Right-of-Way	\$16,600	\$223,600	\$0	\$0	\$223,600
Construction	\$1,416,800	\$0	\$1,725,728	\$0	\$1,725,728
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$48,700	\$0	\$40,000	\$0	\$40,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$1,745,200	\$523,900	\$1,765,728	\$0	\$2,289,628

5 Year Projected Legislat	ion					
Prior Legislation	2021	2022	2023	2024	2025	Project Total
\$523,900	\$1,765,728	\$0	\$0	\$0	\$0	\$2,289,628
	· · ·					

Dec 2014,Jun 2017,Mar 2019,Sep 2020



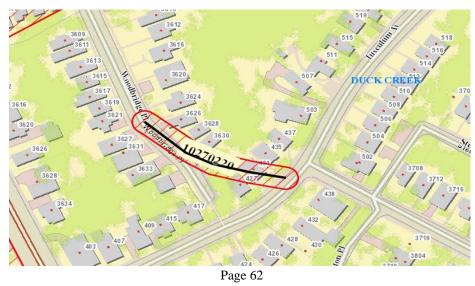
2021 Capital Budget and Capital Improvement Program	Department Project Title	ater Cincinnati Sewer Replacement		
Wednesday, December 16, 2020	Project ID Project Type	10270220 Sewer Replacement	CIP Number	10270220 CD Index #NA Sewer Number 6692
Purpose and Justification	Impact to	Operating Bud	lget	
The project includes one segment that has been requested for	None.			
a BCE by the WWC Gravity Sewer Asset Management system with				
structural risk of 22. This segment and all others included				
in the project will be investigated to determine how to	Description	n and Locatior	1	
address the structural concerns.	Project to address	18"-48" combined sew	er pipe under buildings ir	n deteriorating condition. The project
	includes segments	s 42201037-42201036, 4	42201036-42201014, and	142201038-42201037. The project is located in the
	Columbia Tusculu	um neighborhood of the	City of Cincinnati, Hami	ilton County, Ohio

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	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	\$0	\$38,900	\$0	\$38,900
Right-of-Way	\$45,000	\$0	\$0	\$0	\$0
Construction	\$340,000	\$0	\$0	\$145,500	\$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	\$162,000	\$38,900	\$145,500	\$346,400

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Prior Legislation	2021	2022	2023	2024	2025	Project Total
\$162,000	\$38,900	\$0	\$0	\$145,500	\$0	\$346,400

Prior Legislation Action

Jan 2020



2021 Capital Budget and Capital Improvement Program	DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitleWayside Hills Pump Station
Wednesday, December 16, 2020	Project ID 10272050 CIP Number 10272050 CD Index # NA Project Type Pump Station Improvement/Elim Sewer Number 6948
Purpose and Justification	Impact to Operating Budget
Based on available condition assessment information the	None
Wayside Hills Pump station's wet well is in poor condition	
and has reached the end of its remaining useful life. The	
station's valve vault and power equipment are nearing or have	Description and Location
reached the end of their estimated useful life. Additionally,	The Wayside Hills Pump Station consists of a 0.35 MGD pump station, 1,840 feet of 4-inch force main, and 7 air
operation staff have observed wetwell overflows and noted	release valves. The pump station has several critical assets that are in poor condition and or reaching the
some capacity issues in the area. This project will evaluate	end of their useful life. This project will evaluate the pump station, force main and other appurtenances for
the station for rehab, replacement or elimination.	rehab, replacement, or elimination. The project is located in Anderson Township at 5783 Shady Hollow Ln in the
	California watershed of the Little Miami Basin.

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$0	\$0	\$150,000	\$0	\$150,000
Design	\$210,000	\$0	\$0	\$210,000	\$210,000
Pre-Construction Services	\$49,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$410,000	\$0	\$0	\$410,000	\$410,000
Right-of-Way	\$22,500	\$0	\$0	\$22,500	\$22,500
Construction	\$1,300,000	\$0	\$0	\$1,300,000	\$1,300,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$170,000	\$0	\$0	\$170,000	\$170,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$2,161,500	\$0	\$150,000	\$2,112,500	\$2,262,500
5 Year Projected Legislation					
Prior Legislation	2021 20	2023	2024	2025	Project Total

\$642,500

\$0

\$0

\$792,500

\$0

\$0

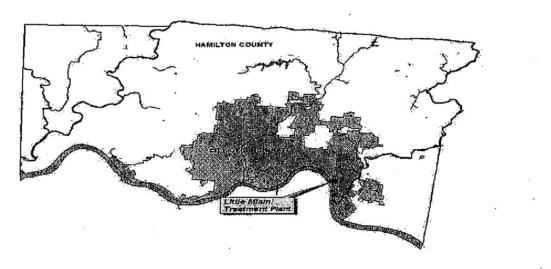
\$150,000



2021 Capital Budget and Capital Improvement Program	DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitleLMWWTP Flow Meter Renewal			
Wednesday, December 16, 2020	Project ID 10272065 CIP Number 10272065 CD Index #NA			
	Project Type Treatment Facility Sewer Number 7059			
Purpose and Justification	Impact to Operating Budget			
In 2014, a bundle planning effort was completed on the Little	None			
Miami Wastewater Treatment Plant (LMWWTP) that identified				
projects that would allow MSD to meet the objectives of the				
Wet Weather Improvement Plan (WWIP). Since this time, a	Description and Location			
number of updates have occurred at the plant. A new effort is	This project will upgrade flow meters in three process areas at the Little Miami Wastewater Treatment Plant.			
currently underway to update the 2014 bundle in light of	These meters, which have reached the end of their useful life, are in many cases used to measure permitted			
recent changes including plans for a future High Rate	flows and have a history of giving inaccurate readings. These flow meters are necessary for effective and			
Treatment (HRT) facility and the District-wide Solids	proper treatment of waste. Also, with the planned upgrades at the Little Miami Wastewater Treatment Plant			
Handling Master Plan.	(LMWWTP), as laid out in the Little Miami Bundle prepared by Arcadis, these flow meters will be required to			
	monitor process flow rates. Accurate flow measurements are imperative to allow for strategic shutdowns which			
	are required for efficient, safe, and cost-effective construction of other plant improvements. As a result,			
	these flow meters need to be replaced prior to other projects identified in the bundle. This project is			

		cated that the LMWWTP in the			
Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$510,000	\$0	\$510,000	\$0	\$510,000
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$120,000	\$0	\$120,000	\$0	\$120,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$6,100,000	\$0	\$0	\$6,100,000	\$6,100,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$763,000	\$0	\$0	\$763,000	\$763,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$7,493,000	\$0	\$630,000	\$6,863,000	\$7,493,000

5 Ital I fojettu Legislation	L					
Prior Legislation	2021	2022	2023	2024	2025	Project Total
\$0	\$630,000	\$6,863,000	\$0	\$0	\$0	\$7,493,000



2021 Capital Budget and Capital Improvement Program	Department Metropolitan Sewer District of Greater Cincinnati Project Title Summerview Low Pressure Forcemain			
Wednesday, December 16, 2020	Project ID 10272070 CIP Number 10272070 CD Index # NA			
[Project Type Sewer Replacement Sewer Number 7072			
Purpose and Justification	Impact to Operating Budget			
A LPFM was installed in 1995 to serve the Summer View	None			
Subdivision. It creates nuisance odors and high hydrogen				
sulfide (H2S) levels that can lead to corrosion of sewer				
assets. In order to minimize odors, WWC has installed a	Description and Location			
biological air scrubber and chemical feed system. While the	This project will extend the existing low pressure force main (LPFM) approximately 330-ft from MH 51701010 to			
odors have been abated with this system in place, the annual	MH 51701005 in Ayers Road. The proposed LPFM drop connection to MH 51701005 will be a drop connection into the			
cost to sustain treatment of the sewage is not sustainable	gravity flow and minimize odors. The home at 7501 Ayers Road is connected to the gravity line directly			
and a more permanent sewered solution is needed. WWC proposes	downstream of the LPFM. Untreated flow from the LPFM settles in the gravity system and can cause outdoor			
extending the LPFM approximately 330-ft from MH 51701010 and	odors for the homeowners. Extending the LPFM further downstream with a drop connection will effectively			
connecting it to MH 51701005 in Ayers Road via a drop	minimize odors.			
connection. The proposed LPFM connection will discharge into				
1				

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$50,335	\$0	\$50,335	\$0	\$50,335
Design	\$63,791	\$0	\$0	\$63,791	\$63,791
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$19,000	\$0	\$0	\$19,000	\$19,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$302,645	\$0	\$0	\$302,645	\$302,645
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$31,475	\$0	\$0	\$31,475	\$31,475
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$467,246	\$0	\$50,335	\$416,911	\$467,246
5 Year Projected Legislation					
Prior Legislation	2021 202	2023	2024	2025	Project Total

\$334,120

\$0

\$467,246

\$0

Prior Legislation Action

\$0

\$50,335

\$82,791

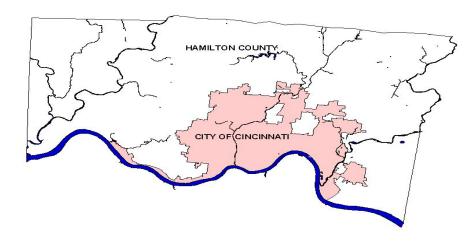
the gravity flow to minimize odors.



2021 Capital Budget and Capital Improvement Program	DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitleHydraulic Modeling 2021
Wednesday, December 16, 2020	Project ID 10280241 CIP Number 10280241 CD Index # NA
	Project Type Allowance Sewer Number 7065
Purpose and Justification	Impact to Operating Budget
The purpose of the Hydraulic Modeling Allowance is to enable	None.
MSD to maintain the models of its collection system and	
treatment works at the highest state of accuracy and	
calibration and to apply those models in support of planning,	Description and Location
operations, and regulatory consent decree compliance.¿ ¿Since	MSD maintains and uses 9 basin models that collectively cover the entire MSD service area.¿ This allowance is
MSD's system is continually changing (due to natural	used to fund general maintenance and improvement work, including calibrations, to all of them, as well as
degradation, maintenance and repairs, capital improvements,	investigations into hydraulic problems or concerns in any portion of the District's service area, as the need
and changes in operations) an annual investment in	arises.¿ Modeling in support of an identified capital improvement project is¿subsequently moved¿to that
maintaining and calibrating the models is necessary to keep	project's ID
them up-to-date.¿ The models are used in the planning and	
design of all capital projects and their use is required as	
part of the Global Consent Decree and MSD's CSO NPDES permit.	

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$1,000,000	\$0	\$1,200,000	\$0	\$1,200,000
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	\$1,200,000	\$0	\$1,200,000

5 Year Projected Legislation	0 n					
Prior Legislation	2021	2022	2023	2024	2025	Project Total
\$0	\$1,200,000	\$0	\$0	\$0	\$0	\$1,200,000



2021 Capital Budget and Capital Improvement Program	Department Metropolitan Sewer District of Greater Cincinnati Project Title Critical Asset Management Projects 2021
Wednesday, December 16, 2020	Project ID 10280721 CIP Number 10280721 CD Index #NA
	Project Type Allowance Sewer Number 7066
Purpose and Justification	Impact to Operating Budget
This allowance is to provide MSD with an expeditious means of	None.
addressing infrastructure and other asset failures in advance	
of catastrophic failure when possible. MSD has over \$11M of	
needs associated with WWT and Wet Weather facilities in the	Description and Location
coming year and uses this allowance to prioritize the most	This allowance serves as an annual "budget" from which smaller expenditures will be made as the need arises.
critical needs. This allowance utilizes district wide	To manage this allowance, MSD will maintain a risk-based prioritized list of proposed expenditures that will
condition reports, field data, studies and other analyses to	be updated as needs arise and seek legislative approval according to established thresholds.
provide MSD with a rapid means to address failing roofs,	
roadways, other unforeseen capital needs that require little	
or no design, that are needed sooner than the normal CIP	
project process allows, and or are of significantly less cost	
than a typical CIP project.	

Cost Description	Origin	al Project	Prior Legislation	Current	Future	Current Project
	Esti	mate		Legislation	Legislation	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	\$6,000,000	\$0	\$6,000,000
Program Management		\$0	\$0	\$0	\$0	\$0
Construction Services		\$0	\$0	\$0	\$0	\$0
Interest / Financing		\$0	\$0	\$0	\$0	\$0
Total		\$0	\$0	\$6,000,000	\$0	\$6,000,000
5 Year Projected Legislation						
Prior Legislation	2021	202	2 2023	2024	2025	Project Total

\$0

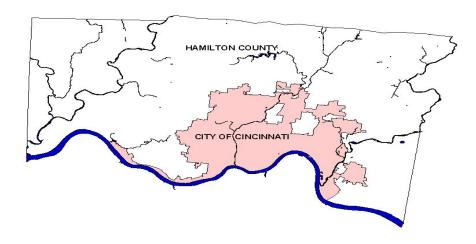
\$6,000,000

\$0

Prior L	egislation	n Action
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\$0

\$6,000,000



2021 Capital Budget and Capital Improvement Program	DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitleLMWWTP Solids Disposal With Odor Control
Wednesday, December 16, 2020	Project ID 10281100 CIP Number 10281100 CD Index # NA Project Type Treatment Facility Sewer Number 6914
Purpose and Justification	Impact to Operating Budget
This project was identified as a priority project in MSD's	None
Solids Handling Master Plan. The project will diversify MSD's	
solids handling management, decrease the reliance on	
landfills for sludge disposal and also allow for revenue	Description and Location
opportunities associated with the processing of high strength	This project will address critical solids handling, disposal and odor control needs at Little Miami WWTP. The
waste (HSW) and sale of biogas.	project includes digestion facilities and supporting structures, biogas conditioning, waste gas burner, high
	strength waste (HSW) and liquid sludge receiving facilities, sludge dewatering facilities, and odor control
	for associated processes. This project is located within the Little Miami WWTP in the East End neighborhood of
	the City of Cincinnati.

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$0	\$856,325	\$0	\$0	\$856,325
Design	\$2,402,500	\$3,666,175	\$5,433,825	\$0	\$9,100,000
Pre-Construction Services	\$586,800	\$586,800	\$0	\$0	\$586,800
Miscellaneous Expense	\$216,200	\$216,200	\$133,800	\$0	\$350,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$78,560,000	\$78,560,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$1,500,000	\$1,500,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$3,205,500	\$5,325,500	\$5,567,625	\$80,060,000	\$90,953,125

5 Year Projected Legislati	on					
Prior Legislation	2021	2022	2023	2024	2025	Project Total
\$5,325,500	\$5,567,625	\$0	\$80,060,000	\$0	\$0	\$90,953,125

Jan 2019,Feb 2020,Apr 2020

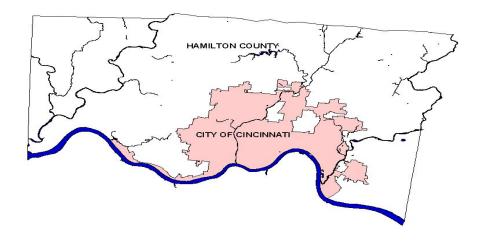


2021 Capital Budget and Capital Improvement Program	DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitlePrioritized Wastewater Collection System Improvements 2021
Wednesday, December 16, 2020	Project ID 10281321 CIP Number 10281321 CD Index #NA
Purpose and Justification	Project Type Allowance Sewer Number 7067 Impact to Operating Budget 7067 7067
•	
MSD proposes to use this allowance to fund all planned and	None.
reactive improvements to publicly owned assets that comprise	
the wastewater collection system and to remedy structurally	
failed privately-owned building sewers located within the	Description and Location
public right-of-way, ¿excluding work specifically covered in	This program will allow the District to respond to sudden, unexpected system failures, to complete planned
other Consent Decree specified allowances (Main Sewer Renewal	repairs and improvements to high risk utility-owned assets, and to make prioritized system improvements
and Manhole Renewal).	through construction coordination projects in order to maintain acceptable levels of service at the lowest
	life-cycle cost. This allowance represents a consolidation of the former Emergency Sewer, High Risk Asset
	Renewal, and Building Sewer Renewal allowances.

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	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	\$10,000,000	\$0	\$10,000,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$2,000,000	\$0	\$2,000,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$0	 \$(0 \$12,000,000	\$0	\$12,000,000

5 Year Projected Legislati	on					
Prior Legislation	2021	2022	2023	2024	2025	Project Total
\$0	\$12,000,000	\$0	\$0	\$0	\$0	\$12,000,000

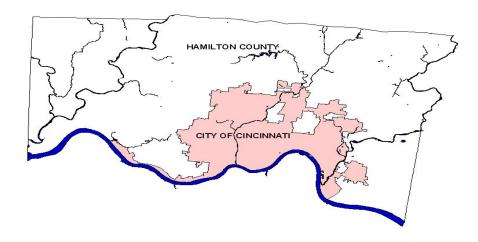
Prior Legislation Action



2021 Capital Budget and Capital Improvement Program	Department Metropolitan Sewer District of Greater Cincinnati Project Title CIP Planning Projects 2021
Wednesday, December 16, 2020	Project ID 10282021 CIP Number 10282021 CD Index # NA
	Project Type Allowance Sewer Number 7068
Purpose and Justification	Impact to Operating Budget
This allowance is needed to provide BCE planning for projects	None.
which have inadequate project definition from the	
pre-planning or project nomination phase to determine as	
specific project. This funding will allow for development of	Description and Location
the BCE and confirmation of a project through a SG2 meeting	Provide appropriated funds for BCE level planning of capital projects that have gone through a project
for establishment of a project in the CIP and Oracle iWave	nomination phase and SG1 approval for advancement to the design phase and or legacy projects which are pending
system.	planning. This is consistent with MSD project delivery approach and stage gates to confirm project intent and
	approval to progress to next phase. Efforts involve a significant amount of alternative analysis directed
	towards determining the best option(s), to be evaluated and confirmed during planning phase. Consistent with
	past practice, MSD use of planning allowances ensures charges to allowances are allocated to individual
	capital projects once they are approved and established in iWave. Once BCE is completed a project will be
	confirmed via SG2 and if approved, setup in the system as a standalone project with budget and schedule.

Cost Description	Original P	roject	Prior Legislation	Current	Future	Cu	rrent Project
	Estimate	e		Legislation	Legislation		Estimate
Planning		\$0	\$0	\$2,100,000	\$0	1	\$2,100,000
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		\$0	\$0	\$2,100,000	\$0)	\$2,100,000
5 Year Projected Legislation							
Prior Legislation	2021	2022	2023	2024	2025]	Project Total
\$0	\$2,100,000		\$0 \$	0	\$0	\$0	\$2,100,000

Prior 1	Legislation	Action



2021 Capital Budget and Capital Improvement Program	DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitleMuddy Creek FEMA Property Acquisition & Floodplain Reconfiguration
Wednesday, December 16, 2020	Project ID 10630000 CIP Number 10630000 CD Index #
	Project Type Supplemental Environmental Prj Sewer Number 7005
Purpose and Justification	Impact to Operating Budget
The Muddy Creek Floodprone Property Acquisition Project will	Acquiring the targeted properties will reduce risk and liability of future cleanings and claims associated
reduce flood risk and damage to community residents and	with SBU. The properties are at risk for SBUs and have had repeated impacts, with MSD having already paid
repeatable SBU liability. The full application has been	over \$500K in damage claims since 2009
submitted to FEMA to acquire and demolish up to 31	Description and Location
residential structures along Muddy Creek Road in Cincinnati	The area of focus is Muddy Creek Road between Glenway Avenue and Muddy Creek. The Project is directly related
and Green Township within the floodway and floodplain and	to and will effectively carry out the goals of the State of Ohio Hazard Mitigation Plan by purchasing
obtain 4 property that is currently vacant. The total budget	floodprone property within the floodway and floodplain, mitigating the risk of loss of life and property as
is \$4,744,410, of which 25% is split between the state and	well as future damage claims to FEMA and Ohio EMA.
local dollars and FEMA provides 75%. The project will	
provide space for passive, green solutions such as wetland	
and floodplain restoration and vegetated open spaces for more	
effective stormwater management in a combined sewer area.	

Cost Description	Ori	ginal Project	Prior Legislation	Current	Future	Current Project
	E	Estimate		Legislation	Legislation	Estimate
Planning		\$0	\$0	\$0	\$0	\$0
Design		\$200,000	\$200,000	\$0	\$0	\$200,000
Pre-Construction Services		\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense		\$0	\$0	\$0	\$0	\$0
Right-of-Way		\$0	\$0	\$0	\$0	\$0
Construction		\$500,000	\$0	\$328,000	\$172,000	\$500,000
Program Management		\$0	\$0	\$0	\$0	\$0
Construction Services		\$0	\$0	\$0	\$0	\$0
Interest / Financing		\$0	\$0	\$0	\$0	\$0
Total		\$700,000	\$200,000	\$328,000	\$172,000	\$700,000
5 Year Projected Legislation						
Prior Legislation	2021	202	2 2023	2024	2025	Project Total

\$172,000

\$0

\$0

\$700,000

Prior Legislation Action

\$200,000

\$328,000

Jan 2020



2021 Capital Budget and Capital Improvement Program

Wednesday, December 16, 2020

Purpose and Justification

The current SBU program installs prevention systems for homes with repeated SBUs. However, the program is not cost-effective given the volume of complaints and issues on the east side of Greater Cincinnati. In addition, the current program does not address related problems such as sewer capacity or combined sewer overflow (CSO) volumes. A planning study will help in identifying the hot spots and root causes for SBUs in the study area and assist MSD in achieving regulatory compliance. DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitleGreater Cincinnati East Side SBU Mitigation Study

Project ID	11582000	CIP Number	11582000 CD	Index # N/A
Project Type	Study		Sewer Number	7044
Impact to (Operating Bu	dget		
	- Friend Du			
Description	n and Locatio	n		

watershed-based solutions for chronic sewer backups (SBUs) in neighborhoods and municipalities located on the east side of Greater Cincinnati. The study area includes, but is no limited to, the Clough, Duck Creek, Polk Run, and Sycamore basins. This study will obtain and analyze available data to identify potential alternatives to improve sewer capacity, decrease CSO volumes, and achieve regulatory compliance. Potential alternatives at the local and watershed scale within the study area will be identified and evaluated at a conceptual level.

2024

\$0

2025

\$0

Project Total

\$1,000,000

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$1,000,000	\$0	\$1,000,000	\$0	\$1,000,000
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	\$1,000,000	\$0	\$1,000,000

2023

\$0

Prior Legislation Action

\$0

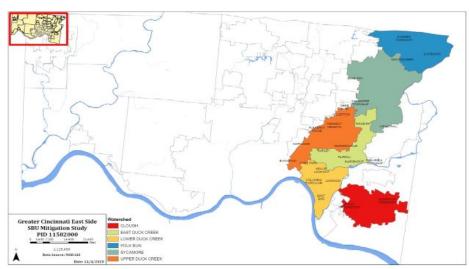
2021

\$1,000,000

2022

\$0

Prior Legislation



2021 OTHER Projects

2021 Projects



Metropolitan Sewer District of Greater Cincinnati

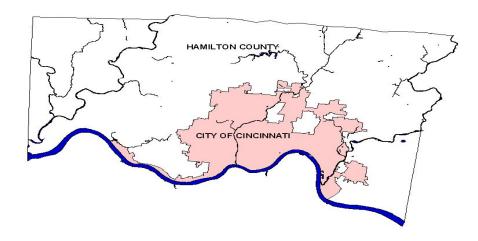
Project	CIP	Projec	t				
ID	Туре	Туре	Project Name	MSD	Other	Total	_ Page
	••	••	•				
10199021	OTHER	ALW	Program Management and Support Services	\$6,800,000	\$0	\$6,800,000	<mark>75</mark>
			2021 (Design)				_
10199121	OTHER	ALW	Hamilton County Utility Oversight and	\$4,400,000	\$0	\$4,400,000	<mark>76</mark>
			Coordination 2021 (Design)				_
13090000	OTHER	PRG	Programmatic Contingency (Design)	\$5,000,000	\$0	\$5,000,000	_ <mark>77</mark>
<u>13099999</u>	OTHER	ALW	MSD LABOR (Design)	\$5,500,000	\$0	<u>\$5,5</u> 00,000	_ <mark>78</mark>
Total Cost	for 4 OTHE	R Projec	ts	\$21,700,000	\$0	\$21,700,000	

2021 Capital Budget and Capital Improvement Program	DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitleProgram Management and Support Services 2021				
Wednesday, December 16, 2020	Project ID 10199021 CIP Number 10199021 CD Index # NA Project Type Allowance Sewer Number 7048				
Purpose and Justification	Impact to Operating Budget				
This project supports the internal efforts, supplemental	None.				
staff and professional services necessary to carry out the					
Capital Program. The activities will include program and					
project management, systems implementation, training, project	Description and Location				
delivery, project controls, design management, CIP planning,	The Program Management Team (PMT) consists of outside professional consultant staff working in an integrated				
and construction administration.	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 capital project legal services				
	0ttt				

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$0	\$0	\$0	\$0
Pre-Construction Services	\$5,400,000	\$0	\$6,800,000	\$0	\$6,800,000
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	\$5,400,000	\$0	\$6,800,000	\$0	\$6,800,000

5 Year Projected Legislation	n					
Prior Legislation	2021	2022	2023	2024	2025	Project Total
\$0	\$6,800,000	\$0	\$0	\$0	\$0	\$6,800,000

Prior Legislation Action

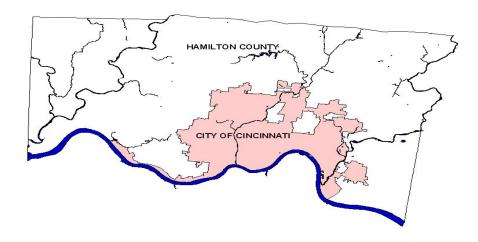


2021 Capital Budget and Capital Improvement Program	DepartmentMetropolitan Sewer District of Greater CincinnatiProject TitleHamilton County Utility Oversight and Coordination 2021				
Wednesday, December 16, 2020	Project ID10199121CIP Number10199121CD Index # 000Project TypeAllowanceSewer Number				
Purpose and Justification	Impact to Operating Budget				
To provide oversight of the capital program, the County has established a Monitor Team. As directed by the Board, the Monitor Team may address MSD related regulatory and legal matters, public outreach, and other assigned tasks. The Monitor team consists of County staff, consultants and attorneys.	None. Description and Location The City is not a party to any of the contracts between the Board and the firms the Board has contracted for what the Board describes as oversight efforts. The Board is solely responsible for selecting, supervising, and directing the County Monitor. The Board is solely responsible for determining that (1) the County Monitor's work is an appropriate expenditure of MSD funds under R.C. 6117.02 and the 1968 Operating Agreement (including all amendments), and (2) the County Monitor is charging fees and expenses consistent with the Board's contract with the County Monitor.				

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$0	\$0	\$0	\$0
Pre-Construction Services	\$2,700,000	\$0	\$4,400,000	\$0	\$4,400,000
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	\$2,700,000	\$0	\$4,400,000	\$0	\$4,400,000

5 Year Projected Legislation	1					
Prior Legislation	2021	2022	2023	2024	2025	Project Total
\$0	\$4,400,000	\$0	\$0	\$0	\$0	\$4,400,000

Prior Legislation Action

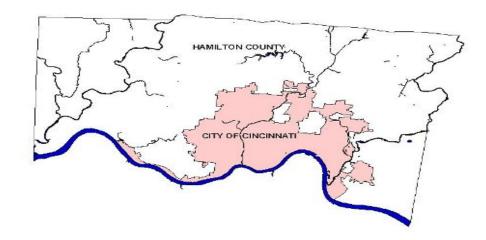


2021 Capital Budget and Capital Improvement Program	Department Project Title	Metropolitan Sewer District of Greater Cincinnati Programmatic Contingency			
Wednesday, December 16, 2020	Project ID	13090000	CIP Number	CD Index #000	
	Project Type	Program Continger	ncy Sewe	er Number	
Purpose and Justification	Impact to	Operating Buo	dget		
Project budgets in the CIP do not include a contingency line	None.				
item. MSD uses programmatic contingency to fund construction					
and design change orders for all projects in the capital					
program.	Description	n and Location	n		
	For 2021, the Alle	owance for Programmat	ic Contingency has been estimated	at \$5 million which is consistent with	
	expenditures from	n this fund in recent yea	rs, and consistent with industry star	ndard benchmarking. Costs are	
	allocated to speci	fic capital projects as th	ey are expended.		

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	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	\$12,421,915	\$5,000,000	\$20,000,000	\$37,421,915
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	\$12,421,915	\$5,000,000	\$20,000,000	\$37,421,915

5 Year Projected Legislati	ion					
Prior Legislation	2021	2022	2023	2024	2025	Project Total
\$12,421,915	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$37,421,915

Prior Legislation Action



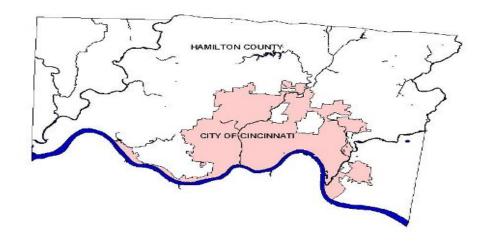
2021 Capital Budget and Capital Improvement Program	Department Project Title	Metropolitan Sewer District of Greater Cincinnati MSD LABOR				
Wednesday, December 16, 2020	Project ID	13099999	CIP Number	CD Index #		
	Project Type	Allowance	Sewe	er Number		
Purpose and Justification	Impact to	Operating Bu	dget			
Effective January 1, 2020 MSD accounting practices revised	None					
how MSD staff labor will be capitalized. This change was						
discussed internally with the County Monitor Team, and it was						
mutually determined that there is no added value in tracking	Description	n and Locatio	n			
internal labor to specific projects. This allowance will	This allowance w	as initiated in 2020 to a	llow all WWE staff to discontinue	direct charges to projects and		
fund all of MSD's estimated labor costs which are currently	instead charge to	an allowance that woul	d then be allocated back to projects	based on a formula. The cost of		
forecasted to approximately \$5,000,000. These costs will be	MSD labor has be	een removed from proje	ect specific budgets to avoid double	counting.		
allocated back to projects by formula.						

Cost Description	Original Project	Prior Legislation	Current	Future	Current Project
	Estimate		Legislation	Legislation	Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$0	\$0	\$0	\$0
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$0	\$5,000,000	\$5,500,000	\$22,000,000	\$32,500,000
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	\$5,000,000	\$5,500,000	\$22,000,000	\$32,500,000

5 Year Projected Legislat	ion					
Prior Legislation	2021	2022	2023	2024	2025	Project Total
\$5,000,000	\$5,500,000	\$5,500,000	\$5,500,000	\$5,500,000	\$5,500,000	\$32,500,000

Prior Legislation Action

Jan 2020





Project	CIP	Projec	t			
ÎD	Туре	<u>Type</u>	Project Name	MSD	Other	Total
10130161	WWIP	PSE	Muddy Creek PSU & Force Main (Design)	\$1,696,586	\$0	\$1,696,586
10130280	WWIP	PSE	Addyston Pump Station Elimination (Design,Easement)	\$591,757	\$0	\$591,757
10144888	WWIP	FAC	MCWWTP High Rate Treatment Pump Station (Design)	\$14,000,000	\$0	\$14,000,000
10172900	WWIP	FAC	LMWWTP Standby Power (Construction)	\$17,325,000	\$0	\$17,325,000
10180122	WWIP	ALW	Main Sewer Renewal Program 2022 (Construction)	\$6,000,000	\$0	\$6,000,000
10180222	WWIP	ALW	Manhole Renewal Program 2022 (Construction)	\$973,300	\$0	\$973,300
10190222	WWIP	ALW	Phase 2 WWIP Planning 2022 (Planning)	\$2,500,000	\$0	\$2,500,000
10240275	WWIP	SSO	SSO 603 and 704 Improvements (Construction)	\$3,660,000	\$0	\$3,660,000
11242844	WWIP	SEP	CSO 12 Sewer Separation Outfall to Mill Creek (Design,Easement)	\$2,688,775	\$0	\$2,688,775
Total Cost	for 9 WWI	P Projects	s in 2022	\$49,435,418	\$0	\$49,435,418



Metropolitan Sewer District of Greater Cincinnati **OTHER Projects**

Project	CIP	Projec	t			
ID	Туре	Туре	Project Name	MSD	Other	Total
10199022	OTHER	ALW	Program Management and Support Services 2022 (Design)	\$5,800,000	\$0	\$5,800,000
10199122	OTHER	ALW	Hamilton County Utility Oversight and Coordination 2022 (Design)	\$4,400,000	\$0	\$4,400,000
13090000	OTHER	PRG	Programmatic Contingency (Design)	\$5,000,000	\$0	\$5,000,000
13099999	OTHER	ALW	MSD LABOR (Design)	\$5,500,000	\$0	\$5,500,000
Total Cost	for 4 OTHE	ER Projec	ts in 2022	\$20,700,000	\$0	\$20,700,000



Project	CIP	Projec	t			
ID	Туре	Туре	Project Name	MSD	Other	Total
10142420	AM	SEP	Vine Street at Erkenbrecher Avenue Sewer Separation (Design,Easement)	\$3,450,000	\$0	\$3,450,000
10222005	AM	PSE	Colerain-Bevis Pump Station Replacement (Planning)	\$310,000	\$0	\$310,000
10222015	AM	PSE	Stratford Lake Force Main Renewal (Design)	\$150,561	\$0	\$150,561
10230054	AM	FAC	Muddy Creek WWTP Disinfection Upgrades (Planning,Design)	\$740,000	\$0	\$740,000
10230130	AM	REP	Dry Weather Channel for SS 937 (Design)	\$616,500	\$0	\$616,500
10230170	AM	REP	Harrison Avenue North and South Hydraulic Improvements (Planning)	\$290,000	\$0	\$290,000
10230655	AM	REP	Muddy Creek Road and Rosebud Drive Sewer Replacement (Design,Easement)	\$215,000	\$0	\$215,000
10232005	AM	REP	Benz Avenue (HN 1111) Sewer Replacement (Planning)	\$29,000	\$0	\$29,000
10232025	AM	REP	3731 Glenmore Avenue Sewer Evaluation (Design)	\$154,000	\$0	\$154,000
10240320	AM	REP	Wilder Avenue Sewer Replacement (Construction)	\$679,700	\$0	\$679,700
10240500	AM	REP	Yoast Avenue Sewer Improvements (Construction)	\$102,900	\$0	\$102,900
10240720	AM	REP	Valleyview Court Sewer Replacement (Design,Easement)	\$300,000	\$0	\$300,000
10240725	AM	REP	(Design,Easement) (Design,Easement)	\$311,200	\$0	\$311,200
10240735	AM	REP	De Votie Avenue Sewer Replacement (Design,Easement)	\$326,500	\$0	\$326,500
10240740	AM	REP	Tennessee Avenue (HN 1754) Sewer Replacement (Design,Easement)	\$350,000	\$0	\$350,000
10240750	AM	REP	Seton Avenue (HN 916) Sewer Replacement (Design,Easement)	\$210,000	\$0	\$210,000
10240780	AM	REP	Galbraith Rd to Sheldon Avenue Sewer Replacement (Design,Easement)	\$258,100	\$0	\$258,100
10240795	AM	REP	Central to McMicken at Stark St Sewer Replacement (Design,Easement)	\$442,200	\$0	\$442,200
10240810	AM	REP	Overlook Avenue near Glenway Ave Sewer Replacement (Design,Easement)	\$275,000	\$0	\$275,000
10240845	AM	REP	Taft Road & McMillan Street Sewer Replacement (Design,Easement)	\$3,052,500	\$0	\$3,052,500
10240850	AM	FAC	Mill Creek WWTP Outfall Improvements (Design)	\$447,000	\$0	\$447,000
10241905	AM	SUP	Congress Run Stream Restoration and Bank Stabilization (Design)	\$296,000	\$0	\$296,000



Project	CIP	Projec	t			
ID	Туре	Туре	Project Name	MSD	Other	Total
10242020	AM	FAC	Mill Creek WWTP Disinfection Improvement (Planning, Design)	\$1,907,200	\$0	\$1,907,200
10242030	AM	REP	Dorchester Avenue at Highland Avenue Sewer Replacement (Design,Easement)	\$240,350	\$0	\$240,350
10242050	AM	REP	Glenmary Ave and Vine Street Sewer Improvements (Planning)	\$300,000	\$0	\$300,000
10242080	AM	REP	Fenton Avenue (HN 1336) Sewer Relocation (Planning)	\$110,000	\$0	\$110,000
10242090	AM	REP	Donna Lane & Ester Marie Drive Sewer Relocation and Rehab (Planning)	\$86,000	\$0	\$86,000
10242105	AM	REP	Loth Street (HN 2272) Sewer Relocation and Rehab (Planning)	\$160,000	\$0	\$160,000
10242110	AM	REP	Central Avenue and W 9th Street Sewer (Planning)	\$130,000	\$0	\$130,000
10242115	AM	REP	Central Avenue (HN 1964) Sewer (Planning)	\$45,000	\$0	\$45,000
10242120	AM	REP	Elberon Avenue Sewer (Design,Easement)	\$640,000	\$0	\$640,000
10242125	AM	REP	Sycamore Street Sewer (Design,Easement)	\$825,000	\$0	\$825,000
10242140	AM	FAC	MCWWTP Dewatering Building Odor Control (Construction)	\$7,965,000	\$0	\$7,965,000
10242150	AM	FAC	Daly Road Treatment Facility Modifications (Construction)	\$443,100	\$0	\$443,100
10242155	AM	REP	Morrison Avenue Sewer Replacement (Planning)	\$140,000	\$0	\$140,000
10252020	AM	FAC	PRWWTP Sludge Storage Tank with Odor Control (Construction)	\$2,410,000	\$0	\$2,410,000
10262015	AM	FAC	SCWWTP Clarifiers (Design)	\$394,460	\$0	\$394,460
10270110	AM	REP	Linwood Avenue Sewer Replacement (Construction)	\$799,500	\$0	\$799,500
10270155	AM	REP	Paxton Avenue Sewer Rehabilitation (Design,Easement)	\$239,400	\$0	\$239,400
10270165	AM	REP	Delta and Greist Sewer Replacement (Construction)	\$683,437	\$0	\$683,437
10270185	AM	REP	Paxton Ave at Linwood Ave Sewer Replacement (Construction)	\$394,155	\$0	\$394,155
10270225	AM	REP	Elsmere Avenue from Slane to Lafayette Sewer Replacement (Design,Easement)	\$496,300	\$0	\$496,300
10272045	AM	REP	Celeron Avenue Sewer Rehabilitation (Planning)	\$150,000	\$0	\$150,000
10272065	AM	FAC	LMWWTP Flow Meter Renewal (Construction)	\$6,863,000	\$0	\$6,863,000
10272070	AM	REP	Summerview Low Pressure Forcemain (Design)	\$82,791	\$0	\$82,791
10280242	AM	ALW	Hydraulic Modeling 2022 (Planning)	\$1,200,000	\$0	\$1,200,000



Project	CIP	Projec	t			
ID	Туре	Туре	Project Name	MSD	Other	Total
10280722	AM	ALW	Critical Asset Management Projects 2022 (Construction)	\$6,000,000	\$0	\$6,000,000
10281322	AM	ALW	Prioritized Wastewater Collection System Improvements 2022 (Construction)	\$12,000,000	\$0	\$12,000,000
10282022	AM	ALW	CIP Planning Projects 2022 (Planning)	\$2,100,000	\$0	\$2,100,000
Total Cost	for 49 ASS	SET Projec	rts in 2022	\$59,810,854	\$0	\$59,810,854
Grand Totals for 62 Projects in 2022				\$129,946,272	\$0	\$129,946,272



Project	CIP	Projec	t			
ID	Туре	Туре	Project Name	MSD	Other	Total
10130161	WWIP	PSE	Muddy Creek PSU & Force Main	\$7,012,000	\$0	\$7,012,000
			(Construction)			
10130566	WWIP	FAC	Muddy Creek WWTP EHRT and Pump Station	\$106,000,000	\$0	\$106,000,000
			(Construction)			
10142910	WWIP	SRC	Ludlow Run Sustainable Source Control	\$1,952,233	\$0	\$1,952,233
			(Design,Easement)			
10172940	WWIP	SRC	Mt Washington Source Control	\$9,708,000	\$0	\$9,708,000
			Implementation (Construction)			
10180123	WWIP	ALW	Main Sewer Renewal Program 2023	\$6,000,000	\$0	\$6,000,000
			(Construction)			
10180223	WWIP	ALW	Manhole Renewal Program 2023	\$973,300	\$0	\$973,300
			(Construction)			
10190223	WWIP	ALW	Phase 2 WWIP Planning 2023 (Planning)	\$2,500,000	\$0	\$2,500,000
Total Cost	for 7 WWI	P Projects	s in 2023	\$134,145,533	\$0	\$134,145,533



Metropolitan Sewer District of Greater Cincinnati **OTHER Projects**

Project	CIP	Projec	t			
ID	Туре	Туре	Project Name	MSD	Other	Total
10199023	OTHER	ALW	Program Management and Support Services 2023 (Design)	\$4,800,000	\$0	\$4,800,000
10199123	OTHER	ALW	Hamilton County Utility Oversight and Coordination 2023 (Design)	\$4,400,000	\$0	\$4,400,000
13090000	OTHER	PRG	Programmatic Contingency (Design)	\$5,000,000	\$0	\$5,000,000
13099999	OTHER	ALW	MSD LABOR (Design)	\$5,500,000	\$0	\$5,500,000
Total Cost	for 4 OTHE	ER Projec	ts in 2023	\$19,700,000	\$0	\$19,700,000



Project	CIP	Projec	t			
ID	Туре	Туре	Project Name	MSD	Other	Total
10222005	AM	PSE	Colerain-Bevis Pump Station Replacement (Design,Easement)	\$1,935,000	\$0	\$1,935,000
10230045	AM	REP	Stonebridge Relief Sewer (Construction)	\$4,962,255	\$0	\$4,962,255
10230090	AM	PSE	Barrington Hills, Barrington Hills BLK. F, Gil Volz, and Kirkridge Acres P.S. Eliminations (Construction)	\$7,652,400	\$0	\$7,652,400
10230150	AM	REP	Addyston Creek and Sewer Rehab (Construction)	\$477,000	\$0	\$477,000
10230160	AM	REP	Glenway Avenue at Parkcrest Lane Sewer (Planning)	\$83,000	\$0	\$83,000
10240271	AM	CSO	Lower Mill Creek HW DW Protection (Construction)	\$1,392,000	\$0	\$1,392,000
10240330	AM	REP	Otte Avenue Sewer Replacement (Construction)	\$797,600	\$0	\$797,600
10240445	AM	REP	Colton Lane Sewer Replacement (Design)	\$144,000	\$0	\$144,000
10240560	AM	REP	Schulte Drive Sewer Replacement (Construction)	\$485,600	\$0	\$485,600
10240765	AM	REP	Fyffe Avenue Sewer (Planning)	\$76,000	\$0	\$76,000
10240790	AM	REP	Clifton Avenue at Parker Street Sewer Replacement (Planning)	\$370,000	\$0	\$370,000
10240800	AM	REP	4511 Reading Road Sewer (Planning)	\$210,000	\$0	\$210,000
10240815	AM	REP	150 Caldwell Drive Sewer (Planning)	\$39,000	\$0	\$39,000
10240835	AM	CSO	CSO 488 Access Lane (Construction)	\$68,000	\$0	\$68,000
10240855	AM	REP	Connecticut Avenue Sewer Replacement (Construction)	\$3,162,600	\$0	\$3,162,600
10240875	AM	REP	Ledgewood Ave Sewer Replacement (Design,Easement)	\$1,100,000	\$0	\$1,100,000
10241905	AM	SUP	Congress Run Stream Restoration and Bank Stabilization (Construction)	\$2,217,000	\$0	\$2,217,000
10242050	AM	REP	Glenmary Ave and Vine Street Sewer Improvements (Design,Easement)	\$1,872,500	\$0	\$1,872,500
10242055	AM	REP	Queen City Avenue (HN 2047) Sewer Rehabilitation (Design,Easement)	\$308,000	\$0	\$308,000
10242110	AM	REP	Central Avenue and W 9th Street Sewer (Design,Easement)	\$555,000	\$0	\$555,000
10242115	AM	REP	Central Avenue (HN 1964) Sewer (Design,Easement)	\$135,500	\$0	\$135,500
10242130	AM	FAC	MCWWTP Primary Settling Electrical Equipment Replacement (Planning)	\$120,000	\$0	\$120,000
10250040	AM	FAC	Polk Run WWTP Effluent Pumping Improvements (Planning)	\$219,216	\$0	\$219,216
10262015	AM	FAC	SCWWTP Clarifiers (Construction)	\$4,004,971	\$0	\$4,004,971
10270007	AM	SEW	Dry Run Area Sewers Phase 2 Contract RB (Design,Construction)	\$6,684,500	\$0	\$6,684,500



Project	CIP	Projec	t			
ÎD	Туре	Туре	Project Name	MSD	Other	Total
10272025	AM	REP	Wasson Ravine Sewer Replacement	\$2,115,000	\$0	\$2,115,000
			(Construction)			
10272050	AM	PSE	Wayside Hills Pump Station	\$642,500	\$0	\$642,500
			(Design,Easement)			
10272070	AM	REP	Summerview Low Pressure Forcemain	\$334,120	\$0	\$334,120
			(Construction)			
10280243	AM	ALW	Hydraulic Modeling 2023 (Planning)	\$1,200,000	\$0	\$1,200,000
10280723	AM	ALW	Critical Asset Management Projects 2023	\$6,000,000	\$0	\$6,000,000
			(Construction)			
10281100	AM	FAC	LMWWTP Solids Disposal With Odor Control	\$80,060,000	\$0	\$80,060,000
			(Construction)			
10281323	AM	ALW	Prioritized Wastewater Collection System	\$12,000,000	\$0	\$12,000,000
			Improvements 2023 (Construction)			
10282023	AM	ALW	CIP Planning Projects 2023 (Planning)	\$2,100,000	\$0	\$2,100,000
10630000	AM	SUP	Muddy Creek FEMA Property Acquisition &	\$172,000	\$0	\$172,000
			Floodplain Reconfiguration			
			(Construction)			
Total Cost f	for 34 ASS	ET Projec	ts in 2023	\$143,694,762	\$0	\$143,694,762
Grand Tota	ls for 45 P	rojects in	2023	\$297,540,295	\$0	\$297,540,295



Metropolitan Sewer District of Greater Cincinnati WWIP Projects

Project	CIP	Projec	t			
ÎD	Туре	<u>Type</u>	Project Name	MSD	Other	Total
10142910	WWIP	SRC	Ludlow Run Sustainable Source Control	\$11,266,414	\$0	\$11,266,414
			(Construction)			
10144888	WWIP	FAC	MCWWTP High Rate Treatment Pump Station	\$125,000,000	\$0	\$125,000,000
			(Construction)			
10180124	WWIP	ALW	Main Sewer Renewal Program 2024	\$6,000,000	\$0	\$6,000,000
			(Construction)			
10180224	WWIP	ALW	Manhole Renewal Program 2024	\$973,300	\$0	\$973,300
			(Construction)			
10190224	WWIP	ALW	Phase 2 WWIP Planning 2024 (Planning)	\$2,500,000	\$0	\$2,500,000
11242844	WWIP	SEP	CSO 12 Sewer Separation Outfall to Mill	\$26,050,956	\$0	\$26,050,956
			Creek (Construction)			

Total Cost for 6 WWIP Projects in 2024

\$171,790,670 \$0

\$171,790,670



Metropolitan Sewer District of Greater Cincinnati **OTHER Projects**

Project	CIP	Projec	t			
ID	Туре	Туре	Project Name	MSD	Other	Total
10199024	OTHER	ALW	Program Management and Support Services 2024 (Design)	\$3,800,000	\$0	\$3,800,000
10199124	OTHER	ALW	Hamilton County Utility Oversight and Coordination 2024 (Design)	\$4,400,000	\$0	\$4,400,000
13090000	OTHER	PRG	Programmatic Contingency (Design)	\$5,000,000	\$0	\$5,000,000
13099999	OTHER	ALW	MSD LABOR (Design)	\$5,500,000	\$0	\$5,500,000
Total Cost	for 4 OTHE	ER Projec	ts in 2024	\$18,700,000	\$0	\$18,700,000



2024 CIP Metropolitan Sewer District of Greater Cincinnati

ASSET Projects

Project	CIP	Projec	t			
ÎD	Туре	Туре	Project Name	MSD	Other	Total
10222015	AM	PSE	Stratford Lake Force Main Renewal (Construction)	\$653,104	\$0	\$653,104
10230054	AM	FAC	Muddy Creek WWTP Disinfection Upgrades (Construction)	\$2,628,400	\$0	\$2,628,400
10230160	AM	REP	Glenway Avenue at Parkcrest Lane Sewer (Design,Easement)	\$320,000	\$0	\$320,000
10230170	AM	REP	Harrison Avenue North and South Hydraulic Improvements (Design,Easement)	\$955,000	\$0	\$955,000
10232005	AM	REP	Benz Avenue (HN 1111) Sewer Replacement (Design,Easement)	\$92,000	\$0	\$92,000
10240200	AM	REP	(Design, Lasement) Harvey Ave-Hickman Ave Sewer Replacement (Construction)	\$1,440,000	\$0	\$1,440,000
10240426	AM	PSE	(Construction) Pleasant Run Pump Station Upgrades (Construction)	\$29,509,000	\$0	\$29,509,000
10240465	AM	REP	Hosea Street Sewer Replacement	\$359,700	\$0	\$359,700
10240525	AM	REP	(Design,Easement) Victory Parkway Sewer Rehabilitation	\$1,949,000	\$0	\$1,949,000
10240600	AM	FAC	(Construction) Mill Creek WWTP Electrical Arc Flash	\$500,000	\$0	\$500,000
10240740	AM	REP	Protection (Planning) Tennessee Avenue (HN 1754) Sewer	\$320,000	\$0	\$320,000
10240755	AM	REP	Replacement (Construction) Victory Parkway at Ledgewood Drive Sewer	\$960,000	\$0	\$960,000
10240760	AM	REP	Replacement (Construction) Highland and Burnet Sewer Replacement	\$200,400	\$0	\$200,400
10240775	AM	REP	(Construction) Gilbert Avenue at Casino Sewer	\$4,924,700	\$0	\$4,924,700
10240790	AM	REP	Replacement (Construction) Clifton Avenue at Parker Street Sewer	\$2,340,000	\$0	\$2,340,000
10240800	AM	REP	Replacement (Design,Easement) 4511 Reading Road Sewer (Design,Easement)	\$1,000,000	\$0	\$1,000,000
10240815	AM	REP	(Design,Easement) 150 Caldwell Drive Sewer (Design,Easement)	\$93,000	\$0	\$93,000
10240820	AM	REP	Reading Road at Stewart Place Sewer Replacement (Construction)	\$300,000	\$0	\$300,000
10240845	AM	REP	Taft Road & McMillan Street Sewer Replacement (Construction)	\$8,130,000	\$0	\$8,130,000
10240870	AM	REP	911 McPherson Avenue Sewer Replacement (Construction)	\$1,024,000	\$0	\$1,024,000
10242025	AM	REP	Davey Avenue to Hamilton Avenue Sewer Replacement (Construction)	\$513,100	\$0	\$513,100
10242030	AM	REP	Dorchester Avenue at Highland Avenue Sewer Replacement (Construction)	\$1,516,100	\$0	\$1,516,100



Project	CIP	Projec				
ID	Туре	Туре	Project Name	MSD	Other	<u> </u>
10242035	AM	REP	Reading Road - 12th Street to E Liberty	\$2,820,200	\$0	\$2,820,200
			Street Sewer Replacement (Construction)			
10242080	AM	REP	Fenton Avenue (HN 1336) Sewer Relocation	\$435,000	\$0	\$435,000
			(Design,Easement)			
10242085	AM	PSE	Village Woods Pump Station and System	\$524,000	\$0	\$524,000
			Improvements (Construction)			
10242090	AM	REP	Donna Lane & Ester Marie Drive Sewer	\$295,000	\$0	\$295,000
			Relocation and Rehab (Design, Easement)			
10242105	AM	REP	Loth Street (HN 2272) Sewer Relocation	\$732,000	\$0	\$732,000
			and Rehab (Design, Easement)			
10242130	AM	FAC	MCWWTP Primary Settling Electrical	\$280,000	\$0	\$280,000
			Equipment Replacement (Design)			
10242135	AM	REP	Mill Creek Interceptors Rehabilitation	\$4,300,000	\$0	\$4,300,000
			(Construction)			
10242155	AM	REP	Morrison Avenue Sewer Replacement	\$590,000	\$0	\$590,000
			(Design,Easement)			
10250040	AM	FAC	Polk Run WWTP Effluent Pumping	\$466,566	\$0	\$466,566
			Improvements (Design)			
10270026	AM	PSE	Camargo Canyon Pump Station Elimination	\$1,178,400	\$0	\$1,178,400
			(Construction)			
10270155	AM	REP	Paxton Avenue Sewer Rehabilitation	\$1,734,200	\$0	\$1,734,200
			(Construction)			
10270220	AM	REP	Tusculum Avenue at Woodbridge Sewer	\$145,500	\$0	\$145,500
			Replacement (Construction)			
10272045	AM	REP	Celeron Avenue Sewer Rehabilitation	\$735,000	\$0	\$735,000
			(Design,Easement)			
10280244	AM	ALW	Hydraulic Modeling 2024 (Planning)	\$1,200,000	\$0	\$1,200,000
10280724	AM	ALW	Critical Asset Management Projects 2024	\$6,000,000	\$0	\$6,000,000
			(Construction)			
10281324	AM	ALW	Prioritized Wastewater Collection System	\$12,000,000	\$0	\$12,000,000
			Improvements 2024 (Construction)			
10282024	AM	ALW	CIP Planning Projects 2024 (Planning)	\$2,100,000	\$0	\$2,100,000
Total Cost for 39 ASSET Projects in 2024			\$95,263,370	\$0	\$95,263,370	
Grand Tota	ls for 49 P	Projects in	2024	\$285,754,040	\$0	\$285,754,040



Project	CIP	Projec	t			
ÎD	Туре		Project Name	MSD	Other	Total
10130280	WWIP	PSE	Addyston Pump Station Elimination (Construction)	\$2,584,754	\$0	\$2,584,754
10180125	WWIP	ALW	Main Sewer Renewal Program 2025 (Construction)	\$6,000,000	\$0	\$6,000,000
10180225	WWIP	ALW	Manhole Renewal Program 2025 (Construction)	\$973,300	\$0	\$973,300
10190225	WWIP	ALW	Phase 2 WWIP Planning 2025 (Planning)	\$2,500,000	\$0	\$2,500,000
10230140	WWIP	SEP	Addyston Extraneous Stormwater Removal (Construction)	\$4,950,000	\$0	\$4,950,000
Total Cost for 5 WWIP Projects in 2025			\$17,008,054	\$0	\$17,008,054	



Metropolitan Sewer District of Greater Cincinnati **OTHER Projects**

Project	CIP	Projec	t			
ID	Туре	Туре	Project Name	MSD	Other	Total
10199025	OTHER	ALW	Program Management and Support Services 2025 (Design)	\$3,500,000	\$0	\$3,500,000
10199125	OTHER	ALW	Hamilton County Utility Oversight and Coordination 2025 (Design)	\$4,400,000	\$0	\$4,400,000
13090000	OTHER	PRG	Programmatic Contingency (Design)	\$5,000,000	\$0	\$5,000,000
13099999	OTHER	ALW	MSD LABOR (Design)	\$5,500,000	\$0	\$5,500,000
Total Cost	for 4 OTHE	ER Projec	ts in 2025	\$18,400,000	\$0	\$18,400,000



Project	CIP	Projec	t			
ID	Туре	Туре	Project Name	MSD	Other	Total
10142420	AM	SEP	Vine Street at Erkenbrecher Avenue Sewer Separation (Construction)	\$22,500,000	\$0	\$22,500,000
10230655	AM	REP	Muddy Creek Road and Rosebud Drive Sewer Replacement (Construction)	\$452,000	\$0	\$452,000
10232010	AM	FAC	MUWWTP Outfall Manhole Repair (Design)	\$225,000	\$0	\$225,000
10232025	AM	REP	3731 Glenmore Avenue Sewer Evaluation (Construction)	\$380,000	\$0	\$380,000
10240445	AM	REP	Colton Lane Sewer Replacement (Construction)	\$218,200	\$0	\$218,200
10240465	AM	REP	Hosea Street Sewer Replacement (Construction)	\$2,453,400	\$0	\$2,453,400
10240640	AM	FAC	MCWWTP Dewatering Building Improvements (Design)	\$1,288,000	\$0	\$1,288,000
10240720	AM	REP	Valleyview Court Sewer Replacement (Construction)	\$734,000	\$0	\$734,000
10240725	AM	REP	Shaffer Avenue Sewer Replacement (Construction)	\$907,400	\$0	\$907,400
10240735	AM	REP	De Votie Avenue Sewer Replacement (Construction)	\$588,000	\$0	\$588,000
10240750	AM	REP	Seton Avenue (HN 916) Sewer Replacement (Construction)	\$328,000	\$0	\$328,000
10240765	AM	REP	Fyffe Avenue Sewer (Design,Easement)	\$264,000	\$0	\$264,000
10240780	AM	REP	Galbraith Rd to Sheldon Avenue Sewer Replacement (Construction)	\$413,800	\$0	\$413,800
10240795	AM	REP	Central to McMicken at Stark St Sewer Replacement (Construction)	\$1,712,900	\$0	\$1,712,900
10240810	AM	REP	Overlook Avenue near Glenway Ave Sewer Replacement (Construction)	\$238,000	\$0	\$238,000
10240875	AM	REP	Ledgewood Ave Sewer Replacement (Construction)	\$2,460,000	\$0	\$2,460,000
10242020	AM	FAC	Mill Creek WWTP Disinfection Improvement (Construction)	\$8,372,500	\$0	\$8,372,500
10242120	AM	REP	Elberon Avenue Sewer (Construction)	\$1,010,000	\$0	\$1,010,000
10242125	AM	REP	Sycamore Street Sewer (Construction)	\$1,930,000	\$0	\$1,930,000
10242130	AM	FAC	MCWWTP Primary Settling Electrical Equipment Replacement (Construction)	\$1,030,000	\$0	\$1,030,000
10270225	AM	REP	Elsmere Avenue from Slane to Lafayette Sewer Replacement (Construction)	\$806,000	\$0	\$806,000
10280245	AM	ALW	Hydraulic Modeling 2025 (Planning)	\$1,200,000	\$0	\$1,200,000
10280725	AM	ALW	Critical Asset Management Projects 2025 (Construction)	\$6,000,000	\$0	\$6,000,000
10281325	AM	ALW	Prioritized Wastewater Collection System Improvements 2025 (Construction)	\$12,000,000	\$0	\$12,000,000



Metropolitan Sewer District of Greater Cincinnati

ASSET Projects

Project	CIP	Projec	Project						
ID	Туре	Туре	Project Name	MSD	Other	Total			
10282025	AM	ALW	CIP Planning Projects 2025 (Planning)	\$2,100,000	\$0	\$2,100,000			
Total Cost	Total Cost for 25 ASSET Projects in 2025			\$69,611,200	\$0	\$69,611,200			
Grand Tot	Grand Totals for 34 Projects in 2025			\$105,019,254	\$0	\$105,019,254			