

## Sewer Utility

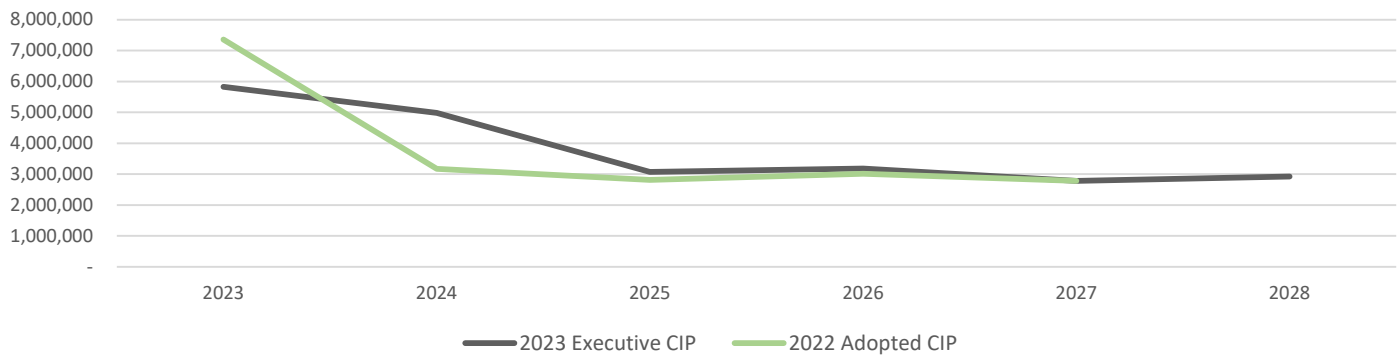
### Capital Improvement Plan

Project Summary: Executive

	2023	2024	2025	2026	2027	2028
Citywide Pumping Stations-Emergency Power	58,000	58,000	58,000	60,000	63,000	66,000
Lift Station Rehabilitation and Replacement	224,000	922,000	817,000	692,000	172,000	181,000
Sewer Access Improvements	130,000	130,000	135,000	142,000	149,000	156,000
Sewer Backwater Valve Reimbursement	60,000	40,000	40,000	40,000	40,000	42,000
Sewer Impact Fee Districts	-	1,500,000	-	-	-	-
Sewer Reconstruction	597,000	275,000	301,000	437,000	459,000	482,000
Trenchless Sewer Rehabilitation	1,760,000	1,760,000	1,724,000	1,810,000	1,900,000	1,995,000
Utility Materials Handling Site	3,000,000	300,000	-	-	-	-
	\$ 5,829,000	\$ 4,985,000	\$ 3,075,000	\$ 3,181,000	\$ 2,783,000	\$ 2,922,000

### Changes from 2022 CIP

2023 Capital Improvement Plan  
2023 Executive vs. 2022 Adopted



### Major Changes

- Lift Station Rehabilitation and Replacement
  - Program budget increased \$688k in reserves applied and revenue bonds from 2023 through 2027 to reflect higher bids for lift station replacements
- Sewer Backwater Valve Replacement
  - Funding increased by \$20k in 2023 to reflect increased demand in the program
- Sewer Impact Fee Districts
  - \$1.5m in budgeted impact fees delayed from 2023 to 2024 to reflect the delay in the Felland Area Sewer Impact Fee area development

# Sewer Utility

## Budget Overview

### 2023 CIP by Expenditure Type

	2023	2024	2025	2026	2027	2028
Land	3,000,000	-	-	-	-	-
Land Improvements	130,000	430,000	135,000	142,000	149,000	156,000
Sanitary Sewer	2,699,000	4,555,000	2,940,000	3,039,000	2,634,000	2,766,000
<b>Total Expenditures</b>	<b>\$ 5,829,000</b>	<b>\$ 4,985,000</b>	<b>\$ 3,075,000</b>	<b>\$ 3,181,000</b>	<b>\$ 2,783,000</b>	<b>\$ 2,922,000</b>

### 2023 CIP by Funding Source

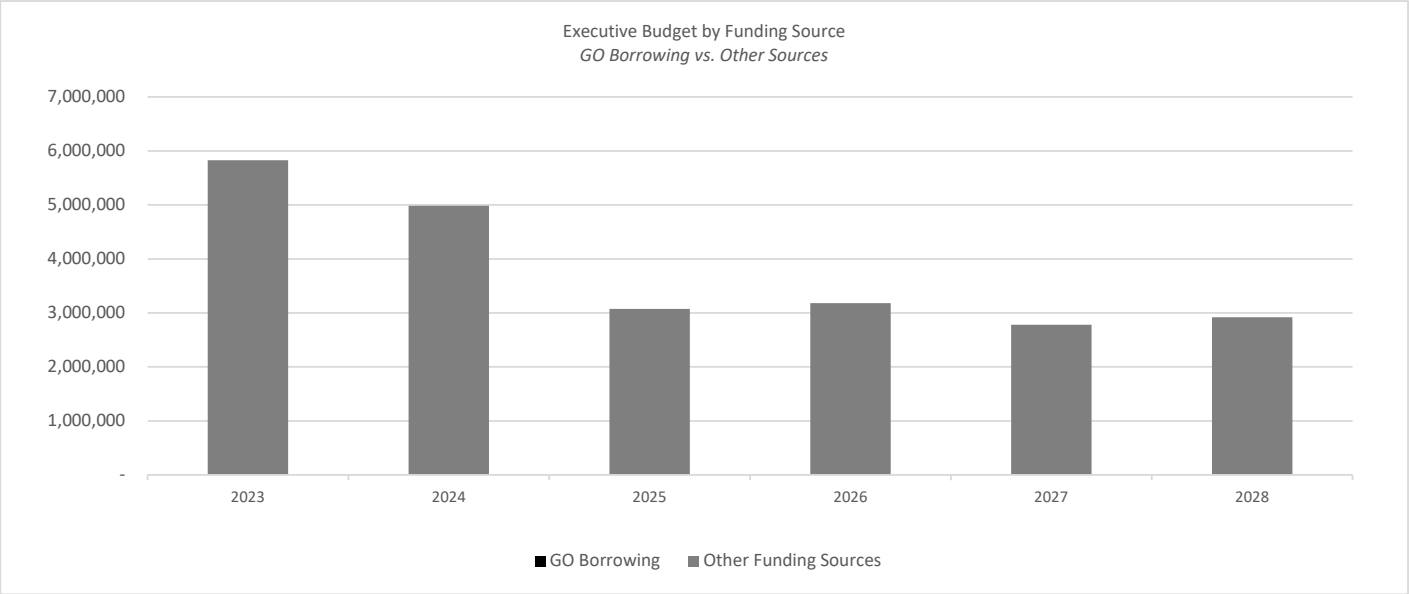
	2023	2024	2025	2026	2027	2028
Impact Fees	-	1,500,000	-	-	-	-
Reserves Applied	1,013,000	1,128,000	1,127,000	1,062,000	1,041,000	1,082,000
Revenue Bonds	4,811,000	2,352,000	1,943,000	2,114,000	1,737,000	1,835,000
Special Assessment	5,000	5,000	5,000	5,000	5,000	5,000
TIF Increment	-	-	-	-	-	-
<b>Total Funding</b>	<b>\$ 5,829,000</b>	<b>\$ 4,985,000</b>	<b>\$ 3,075,000</b>	<b>\$ 3,181,000</b>	<b>\$ 2,783,000</b>	<b>\$ 2,922,000</b>

### Borrowing Summary

	2023	2024	2025	2026	2027	2028
<b>Borrowing Schedule</b>						
General Fund GO Borrowing	-	-	-	-	-	-
Non-General Fund GO Borrowing	-	-	-	-	-	-
<b>Total GO Borrowing</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

### Annual Debt Service

General Fund GO Borrowing	-	-	-	-	-	-
Non-General Fund GO Borrowing	-	-	-	-	-	-



## Sewer Utility

### Budget Overview

Carry Forward GO Borrowing

	Unused Appropriation Authority	Reauthorized GO Borrowing
11984 ATWOOD AVE RECONSTRUCTION	365	-
13838 BLAIR ST	227,734	-
10142 CANNONBALL BIKE TRAIL	1,968,835	-
13061 CEDAR ST	88,036	-
11574 COTTAGE GROVE ROAD	70,553	-
13013 CTH AB INTERCHANGE	(7,924)	-
13835 CTH M	181,470	-
10576 EQUIPMENT AND VEHICLES	600,334	-
11130 GAMMON ROAD, SOUTH	13,135	-
12454 HIGH POINT RD AND RAYMOND RD	9,229	-
10268 LIFT STATION REHABILITATIONS	1,375,683	-
10245 MCKEE RD (CTH PD) IMPROVEMENTS	18,895	-
10540 PAVEMENT MANAGEMENT	8,420,230	-
10284 PLEASANT VIEW ROAD	(69,869)	-
11510 PUMP STATION EMERGENCY GENERATORS	52,326	-
10226 RECONSTRUCTION STREETS	11,791,474	-
10192 SERVICE BUILDING IMPROVEMENTS	13,559	-
10437 SEWER ACCESS IMPROVEMENTS	644,857	-
13568 SEWER BACKWATER VALVE PROGRAM	83,000	-
11678 SEWER IMPACT FEE DISTRICTS	5,839,302	-
10267 SEWER RECONSTRUCTION	559,150	-
13668 SYCAMORE COLD STORAGE STRUCTURE	200,000	-
10450 TRENCHLESS SEWER REHABILITATION	4,072,717	-
11168 UNIVERSITY AVE (SHOREWOOD-UNIV BAY)	62,570	-
13599 UTILITY MATERIALS HANDLING SITE	47,250	-
11459 WILSON ST (MLK - S HAMILTON)	83,859	-
	\$ 36,346,770	\$ -

## Sewer Utility

### Project Overview

Project	<b>Citywide Pumping Stations-Emergency Power Stationary G</b>	Project #	<b>11510</b>
Citywide Element	<b>Green and Resilient</b>	Project Type	<b>Program</b>

#### Project Description

This program funds the installation of emergency power stationary generators at the City's pumping stations. The goal of the program is to ensure continuous sanitary sewer service in the event of power loss. Funding in 2023 is for work at the American Family Lift Station and Cherokee No. 2 Lift Station.

#### Project Budget by Funding Source

	2023	2024	2025	2026	2027	2028
Reserves Applied	58,000	58,000	58,000	60,000	63,000	66,000
<b>TOTAL</b>	<b>\$ 58,000</b>	<b>\$ 58,000</b>	<b>\$ 58,000</b>	<b>\$ 60,000</b>	<b>\$ 63,000</b>	<b>\$ 66,000</b>

Project	<b>Lift Station Rehabilitation and Replacement</b>	Project #	<b>10268</b>
Citywide Element	<b>Green and Resilient</b>	Project Type	<b>Program</b>

#### Project Description

This program funds rehabilitation and replacement of the Sewer Utility's 30 wastewater lift stations and 9.4 miles of force mains. Three additional lift stations will come into the City in October 2022 per the Town of Madison agreement. The goal of this program is to maintain system reliability and to reduce the number of backups or emergency incidents. The overall funding to this program has increased \$688,000 from 2023-2027 as a direct result of bids for lift station replacements being higher than observed in previous years.

#### Project Budget by Funding Source

	2023	2024	2025	2026	2027	2028
Reserves Applied	124,000	322,000	317,000	192,000	172,000	181,000
Revenue Bonds	100,000	600,000	500,000	500,000	-	-
<b>TOTAL</b>	<b>\$ 224,000</b>	<b>\$ 922,000</b>	<b>\$ 817,000</b>	<b>\$ 692,000</b>	<b>\$ 172,000</b>	<b>\$ 181,000</b>

Project	<b>Sewer Access Improvements</b>	Project #	<b>10437</b>
Citywide Element	<b>Green and Resilient</b>	Project Type	<b>Program</b>

#### Project Description

This program is for sewer maintenance access roads, trails, paths and easement acquisitions where access to sanitary sewer access structures is not already well established. The goal of this program is to provide City Operations crews with safe access to maintain the City's sanitary sewer system.

#### Project Budget by Funding Source

	2023	2024	2025	2026	2027	2028
Reserves Applied	130,000	130,000	135,000	142,000	149,000	156,000
<b>TOTAL</b>	<b>\$ 130,000</b>	<b>\$ 130,000</b>	<b>\$ 135,000</b>	<b>\$ 142,000</b>	<b>\$ 149,000</b>	<b>\$ 156,000</b>

Project  
Citywide Element

**Sewer Backwater Valve Reimbursement**  
**Green and Resilient**

Project # **13568**  
Project Type **Program**

*Project Description*

This program funds the reimbursement of property owners for a sewer backwater valve installation. Sewer backwater valves are installed on the sewer lateral either inside the home or on the property between the home and the City sewer main. With this program, the City reimburses property owners 75% of the installation costs up to \$1,500, provided that property owners go through the application process, pass the City plumber on-site pre-inspection, and receive 3 bids from contractors. The goal of the program is to provide additional protection to private property for unplanned sanitary sewer backups.

*Project Budget by Funding Source*

	2023	2024	2025	2026	2027	2028
Reserves Applied	60,000	40,000	40,000	40,000	40,000	42,000
<b>TOTAL</b>	<b>\$ 60,000</b>	<b>\$ 40,000</b>	<b>\$ 40,000</b>	<b>\$ 40,000</b>	<b>\$ 40,000</b>	<b>\$ 42,000</b>

Project  
Citywide Element

**Sewer Impact Fee Districts**  
**Green and Resilient**

Project # **11678**  
Project Type **Program**

*Project Description*

This program is for the extension of sanitary sewer service to developing areas of the City requiring sewer infrastructure installation. The program is funded entirely by Impact Fees, and review for planned projects is conducted annually as dictated by demand for development.

*Project Budget by Funding Source*

	2023	2024	2025	2026	2027	2028
Impact Fees	-	1,500,000	-	-	-	-
<b>TOTAL</b>	<b>\$ -</b>	<b>\$ 1,500,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

Project  
Citywide Element

**Sewer Reconstruction**  
**Green and Resilient**

Project # **10267**  
Project Type **Program**

*Project Description*

This program is for replacing old, problematic sewers throughout the City. The goal of this program is to alleviate emergency sewer repairs and backups by replacing the sewer infrastructure that is past its useful life. Projects included with this program are independent of the sewer replacement work included with the Reconstruct Streets and Pavement Management programs within the Major Streets budget. This program uses a case-by-case basis to evaluate the replacement of the sewers. The planned project for 2023 is a sewer replacement project located on the Oscar Mayer site west of the RR tracks, which Engineering Operations discovered to be in disrepair.

*Project Budget by Funding Source*

	2023	2024	2025	2026	2027	2028
Reserves Applied	141,000	78,000	86,000	111,000	117,000	137,000
Revenue Bonds	451,000	192,000	210,000	321,000	337,000	340,000
Special Assessment	5,000	5,000	5,000	5,000	5,000	5,000
<b>TOTAL</b>	<b>\$ 597,000</b>	<b>\$ 275,000</b>	<b>\$ 301,000</b>	<b>\$ 437,000</b>	<b>\$ 459,000</b>	<b>\$ 482,000</b>

Project  
Citywide Element

**Trenchless Sewer Rehabilitation**  
**Green and Resilient**

Project # **10450**  
Project Type **Program**

*Project Description*

This program funds the rehabilitation of failing sewers by lining the existing sewer mains using cameras and remote controlled tools. Some sewer mains are rehabilitated (or lined) to address inflow and infiltration problems. The goal of this program is to repair nine miles of sewer mains at selected locations based upon need; backyard sewer mains are prioritized.

*Project Budget by Funding Source*

	2023	2024	2025	2026	2027	2028
Reserves Applied	500,000	500,000	491,000	517,000	500,000	500,000
Revenue Bonds	1,260,000	1,260,000	1,233,000	1,293,000	1,400,000	1,495,000
<b>TOTAL</b>	<b>\$ 1,760,000</b>	<b>\$ 1,760,000</b>	<b>\$ 1,724,000</b>	<b>\$ 1,810,000</b>	<b>\$ 1,900,000</b>	<b>\$ 1,995,000</b>

Project  
Citywide Element

**Utility Materials Handling Site**  
**Green and Resilient**

Project # **13599**  
Project Type **Project**

*Project Description*

This program is for creation of a new site for the Sanitary, Storm & Water Utilities, allowing the disposal of excess cut from repair operations and to allow for the dewatering of dredge sediments from pond maintenance operations. Once dewatered, the majority of material is expected to be moved to the Dane County Landfill to be used for daily cover and haul roads. The Utilities' current disposal site is running out of fill area, and with the planned increase in dredging of stormwater retention facilities/ponds as required for compliance with our EPA WPDES discharge permit, the current drying bed, the Madison Metropolitan Sewerage District Drying Bed, is becoming too small. Sewer Utility will own the site and Stormwater Utility and Water Utility will annually pay for their usage of it.

*Project Budget by Funding Source*

	2023	2024	2025	2026	2027	2028
Revenue Bonds	3,000,000	300,000	-	-	-	-
<b>TOTAL</b>	<b>\$ 3,000,000</b>	<b>\$ 300,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

Sewer Utility

2023 Appropriation Schedule

2023 Appropriation		Executive Budget			
	Request	GO Borrowing	Other	Total	
Citywide Pumping Stations-Emergency Power Stationary Generators	58,000	-	58,000	58,000	
Lift Station Rehabilitation and Replacement	224,000	-	224,000	224,000	
Sewer Access Improvements	130,000	-	130,000	130,000	
Sewer Backwater Valve Reimbursement	60,000	-	60,000	60,000	
Sewer Reconstruction	597,000	-	597,000	597,000	
Trenchless Sewer Rehabilitation	1,760,000	-	1,760,000	1,760,000	
	3,000,000	-	3,000,000	3,000,000	
	\$ 5,829,000	\$ -	\$ 5,829,000	\$ 5,829,000	