ES CAPITAL PROGRAM: 2026 THROUGH 2031

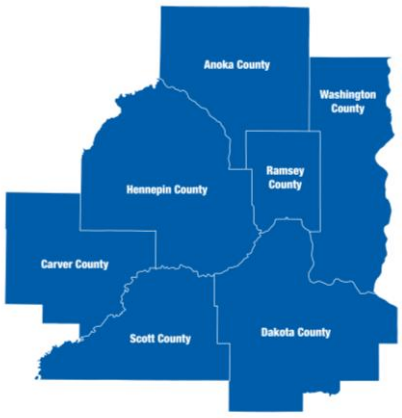
METROPOLITAN COUNCIL

Adopted December 10, 2025

The Council's mission is to foster efficient and economic growth for a prosperous metropolitan region.

Metropolitan Council Members

Robin Hutchenson	Chair	Diego Morales	District 9
Judy Johnson	District 1	Peter Lindstrom	District 10
Reva Chamblis	District 2	Gail Cederberg	District 11
Tyronne Carter	District 3	Mark Jenkins	District 12
Deb Barber	District 4	Chai Lee	District 13
John Pacheco Jr.	District 5	W. Toni Carter	District 14
Robert Lilligren	District 6	Victor Obisakin	District 15
Yassin Osman	District 7	Wendy Wulff	District 16
Anjuli Cameron	District 8		



The Metropolitan Council is the regional planning organization for the seven-county Twin Cities area. The Council operates the regional bus and rail system, collects and treats wastewater, coordinates regional water resources, plans and helps fund regional parks, and administers federal funds that provide housing opportunities for low- and moderate-income individuals and families. The 17-member Council board is appointed by and serves at the pleasure of the governor.

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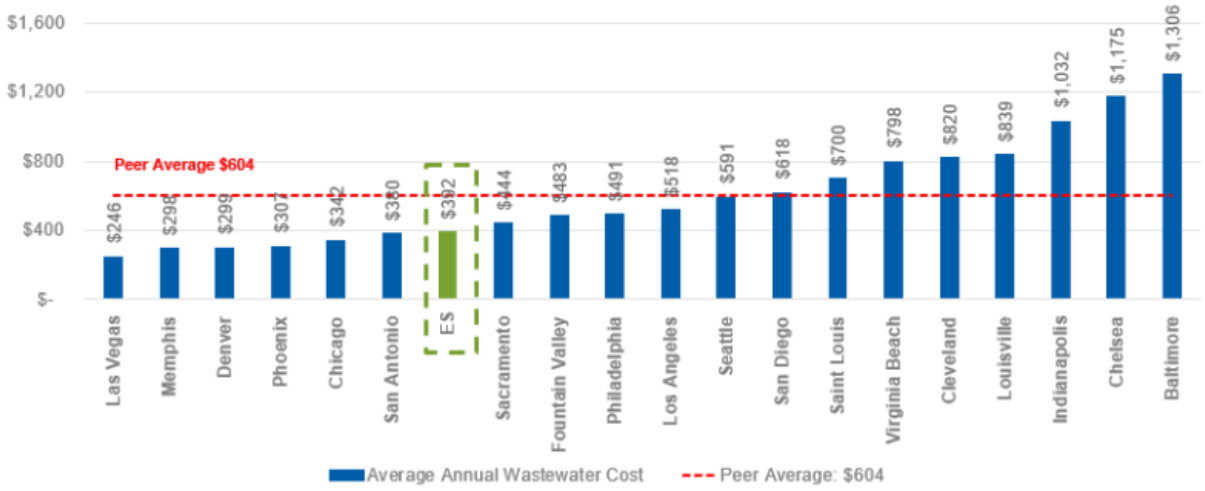
About Metropolitan Council Environmental Services

Metropolitan Council Environmental Services (ES) is responsible for operating and maintaining the regional wastewater system which protects public health, protects the environment, and fosters the economic growth of the seven-county Twin Cities Metropolitan Area. The regional wastewater system currently serves 111 communities and has an estimated replacement value of $9 billion. The organization employs about 640 staff (full-time equivalents) who are committed to clean water and a clean environment, both of which are essential to the quality of life for those who live and work in the region.

Environmental Services consistently achieves near-perfect compliance with federal and state water discharge standards while holding rates about 36% below the national average. ES is committed to sustainable operations through energy efficiency, use of renewable energy resources, use of technology, reducing air pollutant emissions, and resource recovery.

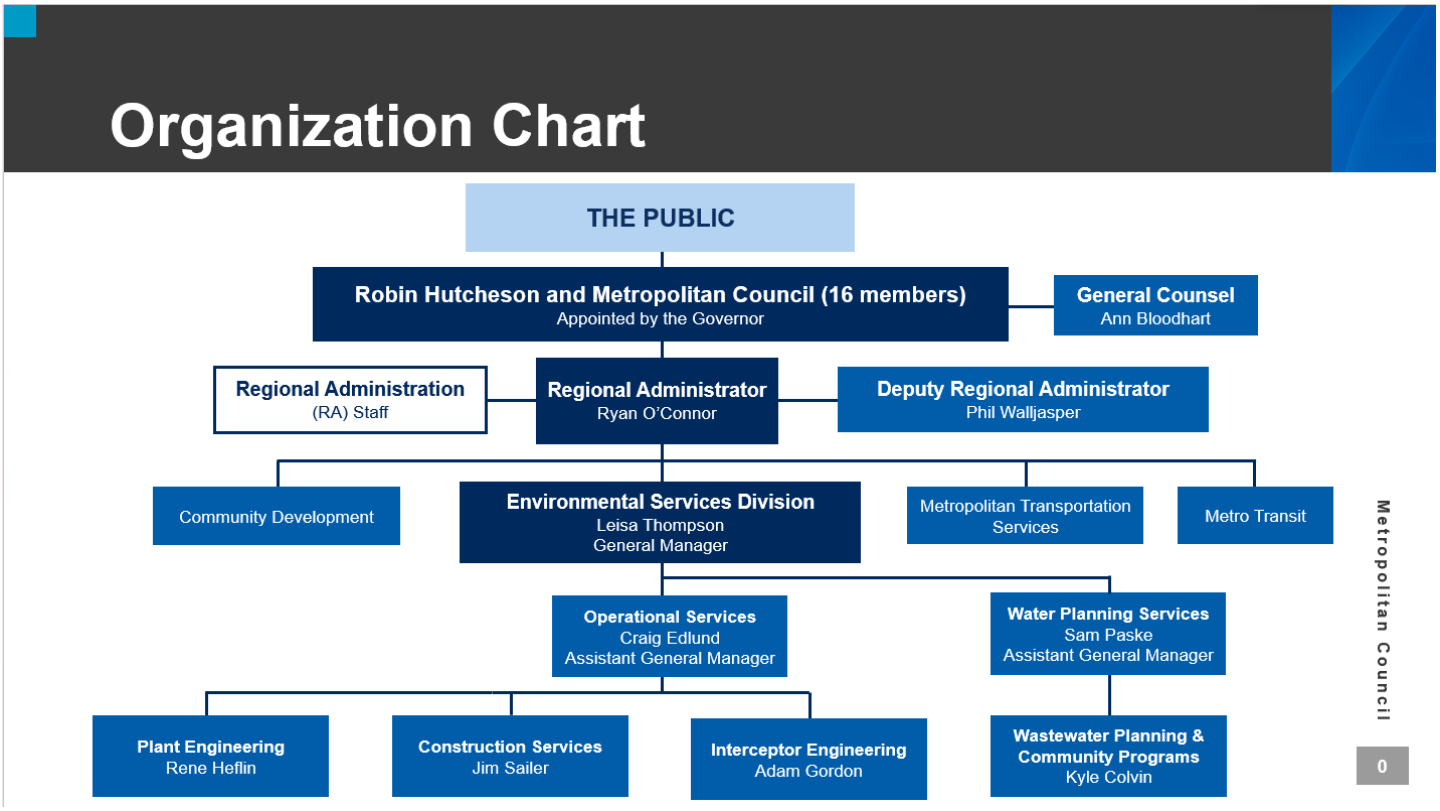
National Association of Clean Water Agencies (NACWA) 2024 peer agency rate survey results:



2023 rates (per 2024 NACWA Survey)

Peer agencies are those wastewater service providers that treat 100 million gallons per day (MGD) or more.

Environmental Services Organizational Chart



About the Environmental Services Capital Program Publication

The Environmental Services Capital Program is a component of the Council's unified budget plan. It is prepared, reviewed, and approved on a yearly basis to consider the new programs and/or adjustments to the plan. The capital program and key projects are presented to customers at the annual open house and budget workshops. Upon adoption of public comment in October, the Unified Operation and Capital Budget and Levies is formally adopted by Council in December.

Minnesota statute requires the Council to develop a capital program. Minnesota Pollution Control Agency (MPCA) references the ES Capital Program to confirm project funding, improvements necessary to meet regulatory requirements, and confirm projects requiring plan and specification review.

This publication is also used as a basis for the Tribal and Cultural Program. It ensures that Council policies align with the interests and concerns of Minnesota Tribal governments. Each project goes through archaeological and historic investigations so the Council can improve tribal collaboration and outreach. Through such efforts, the Council aims to foster improved collaboration with Tribal Nations and communities, facilitating the identification of projects that hold particular importance to them.

Project-level expenses are current as of the Council's adoption date.

Extraordinary Facts by the Numbers!

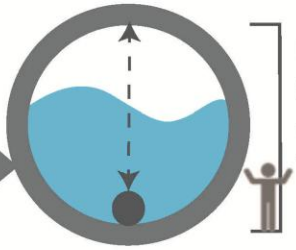
Environmental Services

moves and treats
250 million gallons
of wastewater each day

serving **2.8 million**
people in 111 communities in the
7-county Twin Cities metro area.

That wastewater moves through privately owned and city sewer pipes into

656 miles
of regional interceptor sewer mains



ranging in size from **9 inches** to **14 feet** in diameter and in age from 140 years old to brand new!

The wastewater also passes

232 meters
measuring how much water is flowing through the pipes.

60 lift stations
pumping water from lower elevation to higher elevation so gravity can help us move it.

on its way to

9 wastewater recovery facilities
cleaning the water before it is returned to the environment.

Rev. Apriil 2026

Metropolitan Council Environmental Services
390 Robert Street North
Saint Paul, MN 55101-1805
metrocouncil.org

METROPOLITAN COUNCIL

Capital Program Overview

The Environmental Services Capital Program is a component of the Metropolitan Council's unified budget plan. The Environmental Services Division plans capital spending for new treatment plants, interceptors, and/or improvements to the metropolitan wastewater system. The capital program provides capital investments to preserve and rehabilitate existing wastewater infrastructure, meet more stringent water and air quality regulations, and expand the system capacity to meet regional growth needs. The Capital Program is prepared, reviewed, and approved on a yearly basis to consider new programs and/or adjustments to the plan. The Capital Program and key projects are presented to customers at the budget workshops held annually.

From 1970 to 2013, capital investment focused primarily on developing an efficient and effective wastewater system to meet the needs of a growing region. These investments included interceptor system capacity expansion and extension to serve the long-term service area (2040 and beyond), as well as consolidating, expanding capacity, and completing quality upgrades to the regional water resource recovery facilities between 2014 and 2020, capital investments shifted primarily to preserving the valuable regional wastewater infrastructure. The 2026 through 2031 program continues to have a strong emphasis on asset preservation and includes capacity improvements to support a thriving region. Noteworthy capacity projects and asset preservation projects in the plan include expansion of solids processing (Figure 1) at the Metro Water Reclamation Facility (WRRF), the new Crow River WRRF, a new lift station L32A (Figure 2) in Fridley, and rehabilitation of the largest interceptor tunnel (1-MS-100) in the system.

Figure 1 – Expansion to the Solids Management Building at the Metro WRRF for the Fourth Incinerator

Figure 2 – New Lift Station L32A, located in Fridley.

Environmental Services Customer Level of Service

FINANCIAL

CHARGES & FEES
Charges and fees should be predictable, justifiable, and provide good value for the region.

RETAIN AAA BOND RATING
Retain AAA Bond rating in order to provide the lowest cost debt financing possible.

OPTIMIZE BUDGET PLAN
MCES' 5-year budget plan should optimize capital, O&M programs to meet customer service goals.

PRESERVE ASSETS
The region's wastewater assets should be well maintained to preserve their value and performance.

BE FAIR AND TRANSPARENT
Allocation of all charges should be fair, equitable, and transparent to the customer.

HEALTH, SAFETY & ENVIRONMENT

COMPLY WITH PERMITS
Comply consistently with water, air, and other environmental permits.

MINIMIZE IMPACTS
Convey and treat wastewater safely with minimal backups, spills, and traffic impacts.

LEAD BY EXAMPLE
Be a leader on environmental sustainability, including water/ energy conservation and water reuse.

CUSTOMER SERVICE

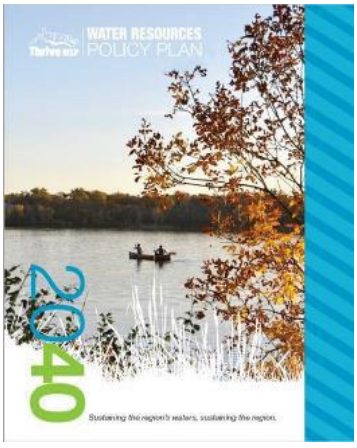
BE A GOOD NEIGHBOR
Mitigate community impacts related to odors, traffic, noise, and visual aesthetics.

MEET CAPACITY NEEDS
Provide conveyance and treatment capacity consistent with regional and local plans.

COMMUNICATE INFORMATION
Communicate with customers about financial info and capital projects & programs that impact them.

ENGAGE CUSTOMERS
Engage customers in a meaningful public process. Provide notice for changes in rules, fees, projects, environmental performance & resolving competing Council policies/interests.

COORDINATE WITH OTHERS
Optimize intergovernmental coordination in all MCES work that intersects with community work.



Environmental Services serves over 111 different customer communities and is committed to providing excellent customer service. We strive to make decisions that are fiscally: responsible, protect human health and the environment, work with our customers to ensure we plan for growth and coordinate our work in an efficient manner.

The Water Resources Policy Plan and the Customer Level of Service are the foundation for the Capital Program.

Authorized Capital Program (ACP)

The ACP provides multi-year authorization to spend on program costs where funding has been secured and the Council has given final approval to proceed. It is the total amount of all past and present approvals from the Council.

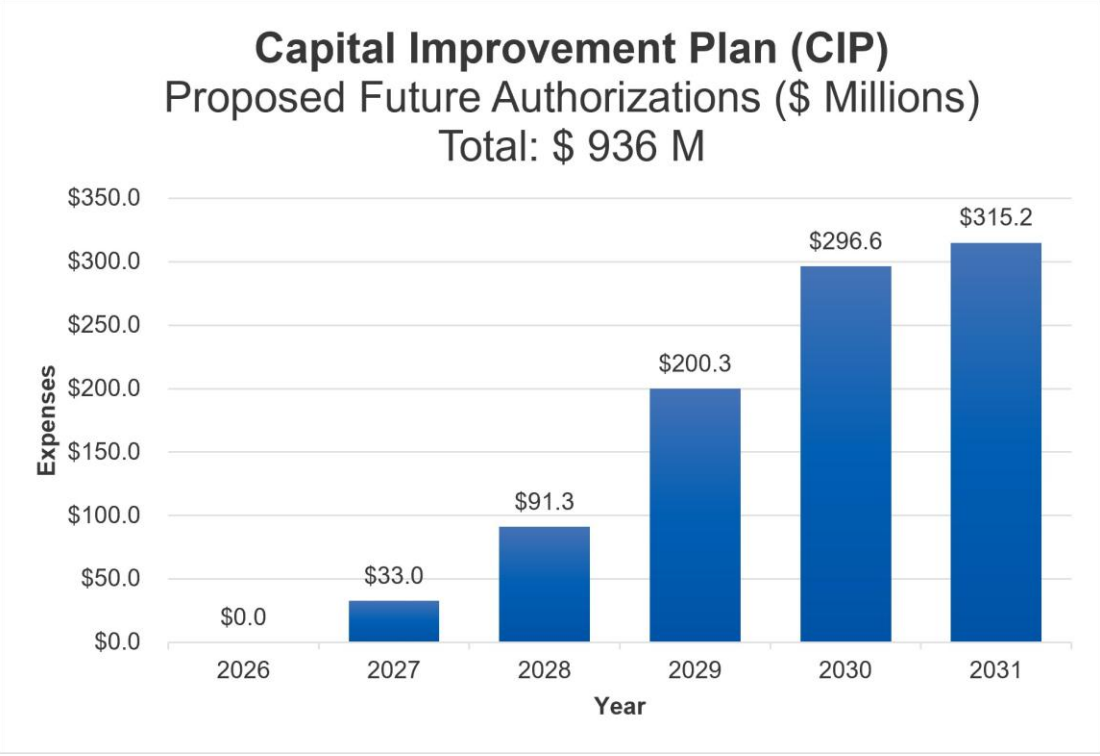
The 2026 ACP consists of the previously approved ACP; plus, the authorization of new programs; authorized adjustments to existing programs; and the deletion of completed and closed-out programs. The changes are summarized below.

Summary of Authorized Capital Program (ACP) Changes

Previous Authorized Capital Program (ACP)	$1,839,194,460
Adjustments to existing projects	$135,514,757
Closed projects	$(43,959,990)
New projects	$246,636,754
Total all changes	$338,191,521
Approved 2026 ACP	**$2,177,385,981**

Capital Improvement Plan (CIP)

The CIP is the six-year capital investment plan. The Council has not given final approval to these investments. These proposed investments and the year that it is anticipated that the Council will be asked to move them into the ACP is summarized below.



Capital Program

The Capital Program consists of the ACP plus the CIP. Table 10 from the Metropolitan Council's 2026 Unified Budget summarizes the ES 2026 through 2031 Capital Program:

ENVIRONMENTAL SERVICES CAPITAL PROGRAM

TABLE 10 **($ IN 000s)**

	Authorized Capital Program (ACP)			Capital Improvement Plan (CIP)							
	2025 Amended	Changes	2026 Adopted	2026	2027	2028	2029	2030	2031	Total	ACP + CIP Combined
Treatment Plant Projects											
8059 - Metro Rehabilitation & Facilities Improve	71,323	(8,714)	62,609	-	-	-	-	-	-	-	62,609
8062 - Metro Solids Improvements	300,258	44,491	344,749	-	-	-	-	-	-	-	344,749
8074 - Empire Plant Solids Improvements	46,615	2,418	49,033	-	-	-	-	-	-	-	49,033
8078 - Regional Plant Improvements	67,682	17,816	85,498	-	-	2,000	18,300	19,800	20,000	60,100	145,598
8089 - MWWTP Asset Renewal	259,363	54,119	313,482	-	-	8,000	20,020	42,520	49,020	119,560	433,042
8091 - Wastewater Reclamation Facilities	2,564	(930)	1,634	-	250	250	250	-	-	750	2,384
8097 - Blue Lake Solids Processing	48,566	63,035	111,601	-	6,000	6,000	15,000	24,000	20,000	71,000	182,601
8098 - Hastings WWTP	2,476	(2,476)	-	-	-	-	-	-	-	-	-
8099 - Crow River Wastewater Treatment Plant	12,010	18,150	30,160	-	22,000	32,000	32,000	32,000	32,000	150,000	180,160
8100 - Industrial Pretreatment Incentive Program	10,994	(350)	10,644	-	-	-	-	-	-	-	10,644
8101 - BPSI Allocation - Plants	5,102	(2,138)	2,964	-	-	-	-	-	-	-	2,964
8103 - Metro WRRF Renewal & Impr	2,500	500	3,000	-	-	3,500	7,000	7,000	-	17,500	20,500
8104 - Empire WRRF Renewal & Impr	1,100	900	2,000	-	-	-	1,000	1,000	-	2,000	4,000
TOTAL Treatment Plant Projects	**830,553**	**186,821**	**1,017,374**	**-**	**28,250**	**51,750**	**93,570**	**126,320**	**121,020**	**420,910**	**1,438,284**
Interceptor Projects											
8028 - Blue Lake System Improvements	134,742	(31,346)	103,396	-	3,700	12,000	15,500	8,700	925	40,825	144,221
8041 - Hopkins System Improvements	7,294	(492)	6,802	-	-	-	-	-	-	-	6,802
8055 - Lift Station Improvements	108,256	41,191	149,447	-	1,000	12,000	25,350	38,350	33,200	109,900	259,347
8056 - Meter Improvements	28,403	13,429	41,832	-	-	-	500	500	500	1,500	43,332
8082 - St Bonifacius LS/FM Rehabilitation	25,162	(940)	24,222	-	-	-	-	-	-	-	24,222
8083 - Waconia LS/FM Rehabilitation	5,707	(2,696)	3,011	-	-	-	-	-	-	-	3,011
8086 - North Area Interceptor Rehabilitation	165,331	83,267	248,598	-	-	-	23,500	29,000	19,000	71,500	320,098
8088 - St Paul Interceptor System Rehabilitation	72,811	(33,539)	39,272	-	-	-	9,840	43,110	67,110	120,060	159,332
8090 - Interceptor Rehabilitation - Program	89,134	(16,461)	72,673	-	-	15,500	18,800	3,800	1,900	40,000	112,673
8092 - Mpls. Interceptor 1-MN-340 Rehabilitation	83,448	49,038	132,486	-	-	-	5,000	7,000	7,000	19,000	151,486
8094 - Brooklyn Park L32	172,043	54,238	226,281	-	-	-	-	-	-	-	226,281
8095 - Coon Rapids-Fridley Area Inter	111,209	(2,181)	109,028	-	-	-	8,210	39,810	64,500	112,520	221,548
8102 - BPSI Allocation - Interceptors	5,102	(2,138)	2,964	-	-	-	-	-	-	-	2,964
TOTAL Interceptor Projects	**1,008,642**	**151,370**	**1,160,012**	**-**	**4,700**	**39,500**	**106,700**	**170,270**	**194,135**	**515,305**	**1,675,317**
TOTAL ENVIRONMENTAL SERVICES	**1,839,195**	**338,191**	**2,177,386**	**-**	**32,950**	**91,250**	**200,270**	**296,590**	**315,155**	**936,215**	**3,113,601**

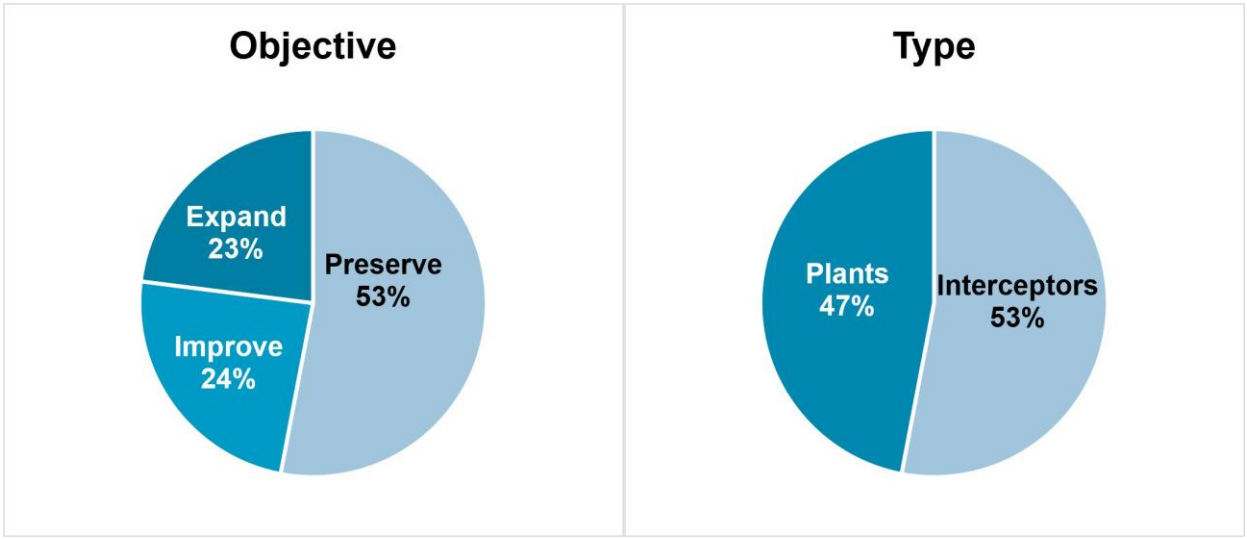
Capital Program Use of Funds

The three objectives of the capital program are:

- **Asset Preservation:** Preserve the existing Environmental Services infrastructure investment through rehabilitation and replacements.
- **System Expansion:** Expand the system capacity through treatment plant and interceptor expansions and interceptor extensions to meet the needs of a growing region.
- **Quality Improvements:** Improve the quality of service by responding to more stringent regulations, improving safety, reusing wastewater, increasing system reliability, and conserving and generating energy.

As indicated below, most of the funds are used for the preservation of the existing ES infrastructure investment. The breakdown by objectives for the 2026 ACP and the total Capital Program are as follows:

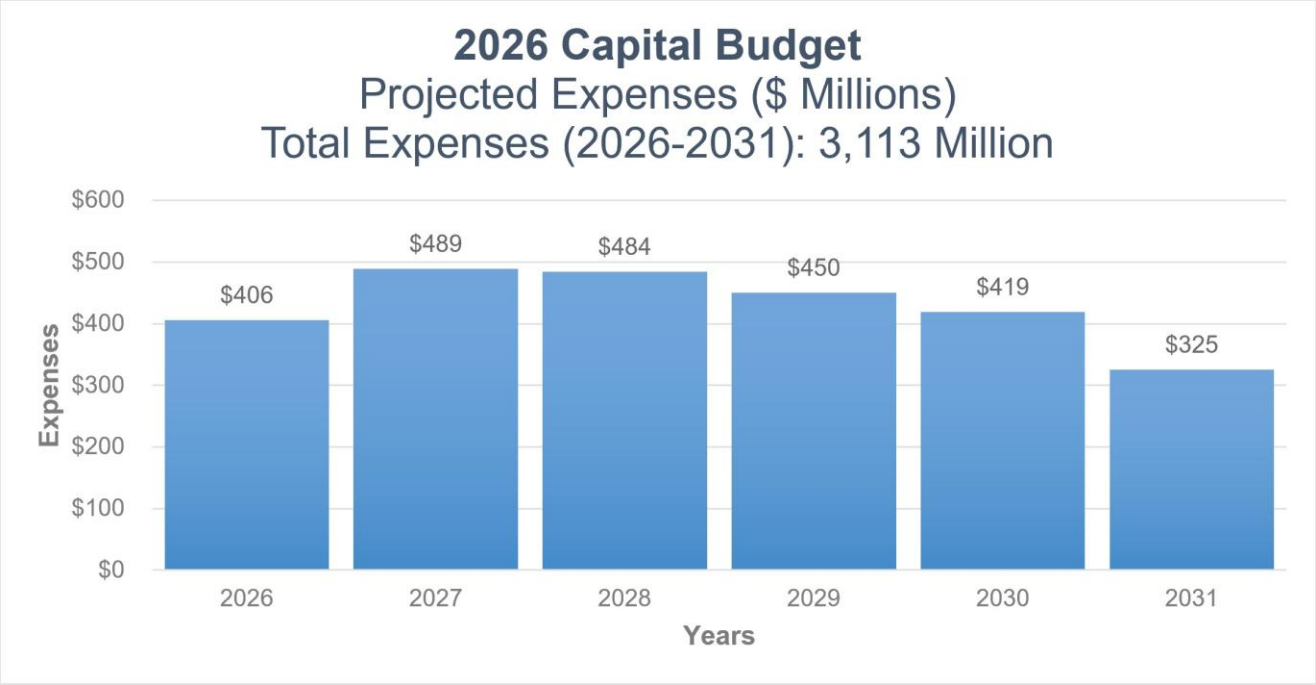
Capital Program (ACP) Objectives



The projects in Environmental Services program are driven by the objectives of asset preservation, capacity needs, or to improve performance in order to respond to more stringent water quality and air quality regulations, increasing system reliability and conserving or generating energy. In the 2026 Authorized Capital Program (ACP), 53% of the funding will be spent on preservation projects, 24% on expansion projects, and 23% on improvement projects. Furthermore, of the 2026 ACP, Interceptors will spend approximately 53% of the budget while Plants will spend approximately 47%.

Capital Budget and Projected Expenses

The Capital budget is the amount from the ACP that represents the estimated work to be completed in that given year. It cannot be exceeded without formal Metropolitan Council action. The adopted ES 2026 Capital Budget is $406 million. As depicted below, the projected capital expenses for the 2026 through 2031 timeframe are $3,113 million. The projected expenses are utilized in the development of the debt service numbers in the ES's Capital Finance Plan.



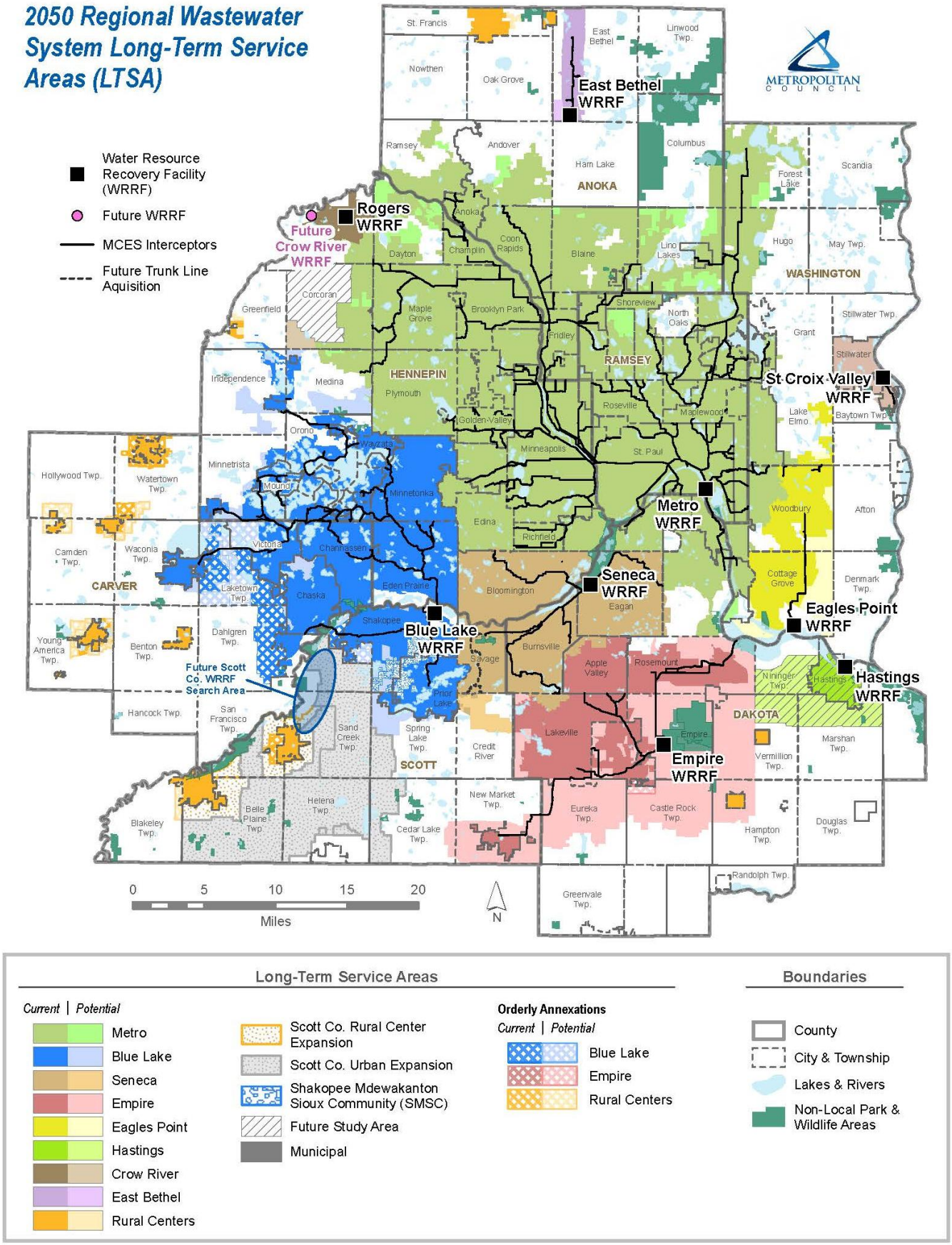
Environmental Services 2026 through 2031 Capital Program

Projected expenses by year (all costs in $1,000s)

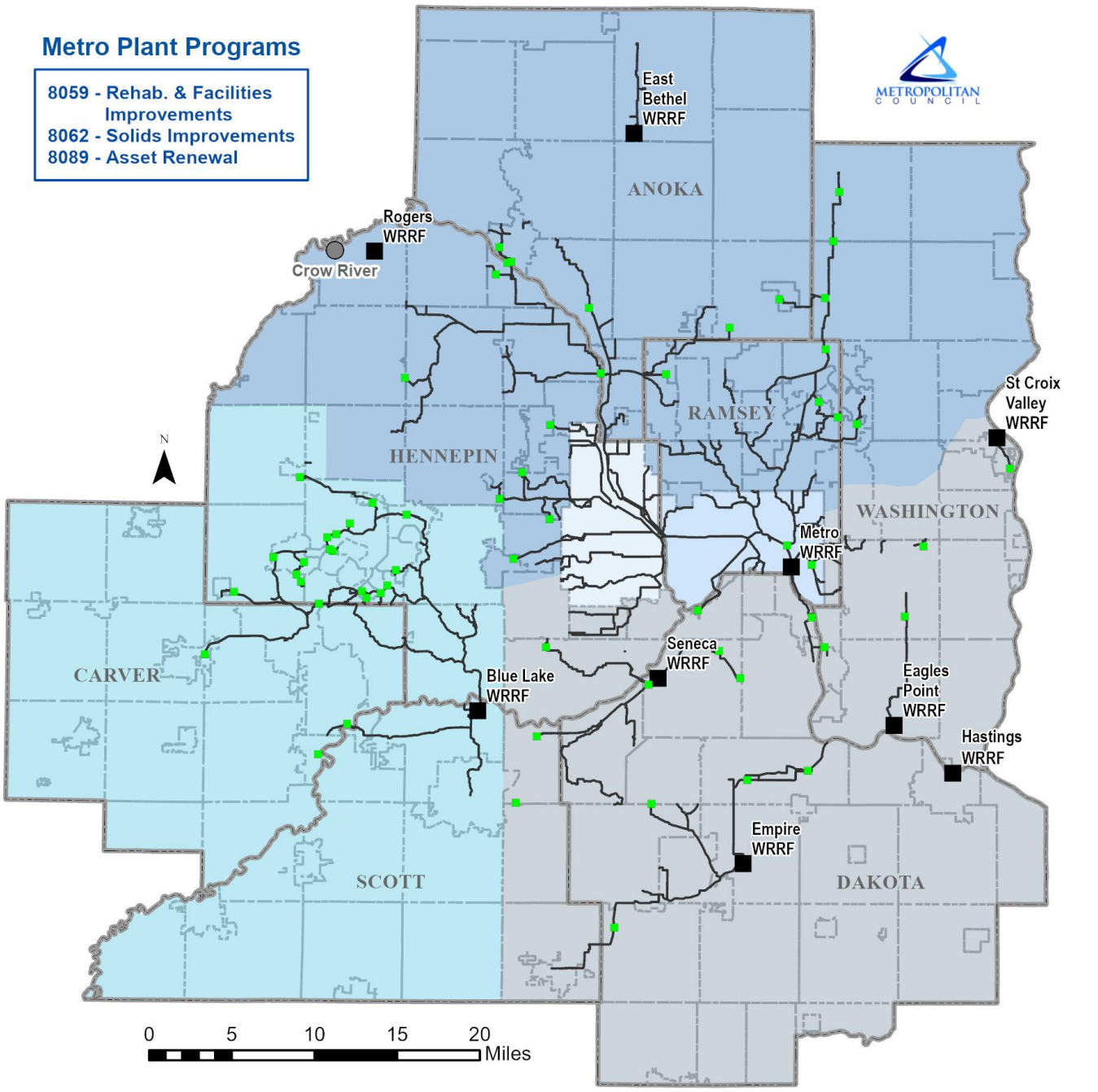
Family	Project Name	2026	2027	2028	2029	2030	2031	2026-2031 Total
	Treatment Plants							
8059	Metro Rehabilitation and Facilities Improvements	3,500	0	0	0	0	0	**3,500**
8062	Metro Solids Improvements	60,000	68,000	68,000	67,500	57,000	0	**320,500**
8074	Empire Plant Solids Improvements	800	0	0	0	0	0	**800**
8078	Regional Plant Improvements	21,300	21,000	20,950	20,000	20,000	20,000	**123,250**
8089	MWWTP Asset Renewal	50,035	53,835	52,235	46,120	42,620	50,020	**294,865**
8091	Wastewater Reclamation Facilities	250	250	250	250	0	0	**1,000**
8097	Blue Lake Solids Processing	10,000	36,000	36,000	37,000	34,000	20,000	**173,000**
8099	Crow River Wastewater Treatment Plant	3,000	28,000	38,000	38,000	37,000	36,000	**180,000**
8100	Industrial Pretreatment Incentive Program	0	0	0	0	0	0	**0**
8101	BPSI Allocation - Plants	1,482	0	0	0	0	0	**1,482**
8103	Metro WRRF Restoration & Improvements	500	500	4,000	7,500	7,500	0	**20,000**
8104	Empire WRRF Recovery Facility Improvements	500	500	500	1,000	1,000	0	**3,500**
	Plant Totals	**151,367**	**208,085**	**219,935**	**217,370**	**199,120**	**126,020**	**1,121,897**
	Percent of Planned Expenses	**37%**	**43%**	**45%**	**48%**	**48%**	**39%**	**44%**
	Interceptor System							
8028	West Area Rehabilitation	19,105	26,155	31,235	23,800	9,100	925	**110,320**
8041	Hopkins System Improvements	0	0	0	0	0	0	**0**
8055	Lift Station Improvements	46,040	38,550	43,050	34,050	38,350	33,200	**233,240**
8056	Meter Improvements	20,450	8,800	2,950	1,000	2,200	2,300	**37,700**
8082	L24 Renovation and FM 7020 Replacement	1,500	0	0	0	0	0	**1,500**
8083	Waconia LS/FM Rehabilitation	0	0	0	0	0	0	**0**
8086	North Area Interceptor Rehabilitation	50,750	56,250	57,350	51,700	39,500	22,600	**278,150**
8088	St Paul Interceptor System Rehabilitation	17,790	11,790	3,290	14,840	43,110	67,110	**157,930**
8090	Interceptor Rehabilitation	8,306	10,200	19,300	18,800	3,800	1,900	**62,306**
8092	Mpls Interceptor System Improvements	36,260	40,714	15,860	30,000	9,200	7,000	**139,034**
8094	New Lift Station L32	30,050	50,000	55,000	50,000	34,000	0	**219,050**
8095	South Area Interceptor Improvements	22,625	38,000	35,910	9,610	39,810	64,500	**210,455**
8102	BPSI Allocation - Interceptors	1,482	0	0	0	0	0	**1,482**
	Interceptor Totals	**254,358**	**280,459**	**263,945**	**233,800**	**219,070**	**199,535**	**1,451,167**
		63%	**57%**	**55%**	**52%**	**52%**	**61%**	**56%**
	Total	**405,725**	**488,544**	**483,880**	**451,170**	**418,190**	**325,555**	**2,573,064**

Six Year Cash Flow =	$ 2,573,064

Environmental Services Long-Term Service Area Map



Environmental Services 2026 through 2031 Capital Program Project Location Map



8028 - West Area Interceptor Improvements

8086 - North Area Interceptor Improvements

8088 - St. Paul Interceptor System Improvements

8092 - Minneapolis Interceptor System Improvements

8095 - South Area Interceptor Improvements

ES Wastewater Treatment System

Lift Stations

Water Resource Recovery Facilities (WRRF)

Future WRRF

Interceptors

Boundaries

Community

County

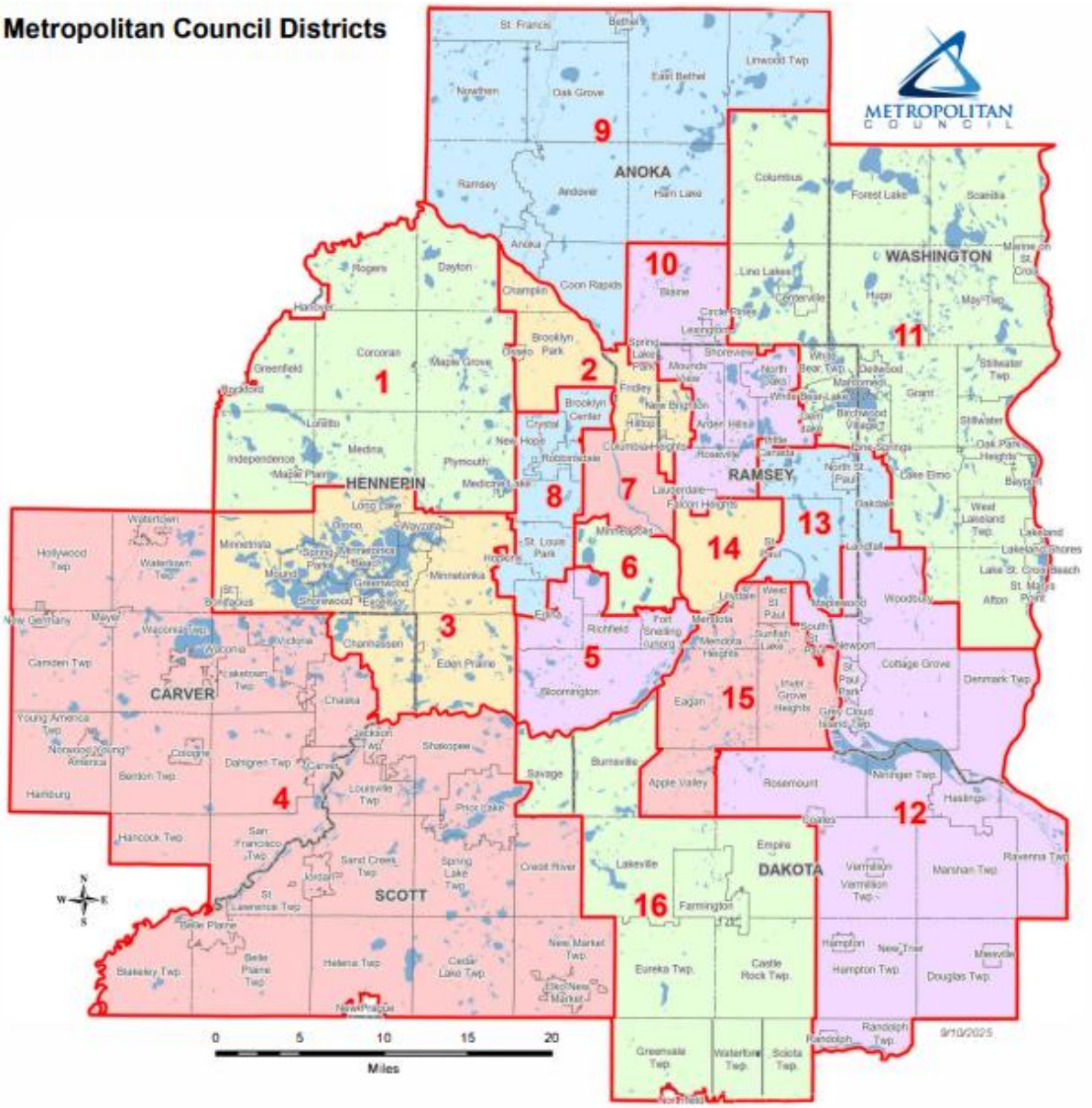
Systemwide Programs

8055 - Lift Station Improvements
8056 - Meter Improvements
8078 - Regional Plant Improvements
8090 - Interceptor Rehabilitation Program
8091 - Wastewater Reclamation Facilities
8096 - Northwest Area Interceptor Improvements
8100 - Industrial Pretreatment Incentive Program

Metropolitan Council Districts Map

Click on the district to learn more about projects located in that district.

District 1
District 2
District 3
District 4
District 5
District 6
District 7
District 8
District 9
District 10
District 11
District 12
District 13
District 14
District 15
District 16



Chair **Robin Hutcheson**

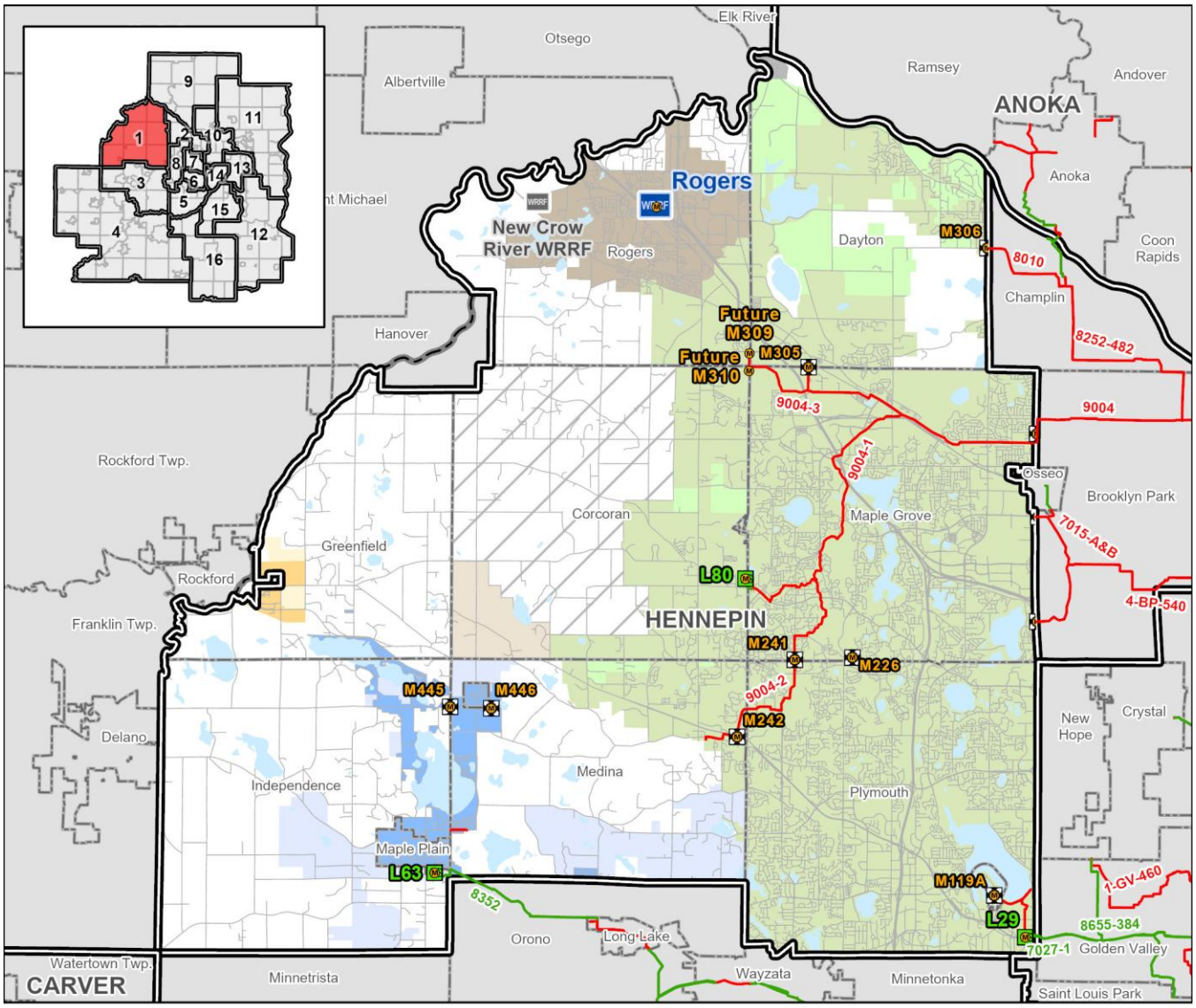
District		District	
1	Judy Johnson	9	Diego Morales
2	Reva Chamblis	10	Peter Lindstrom
3	Tyronne Carter	11	Gail Cederberg
4	Deb Barber	12	Mark Jenkins
5	John Pacheco Jr.	13	Chai Lee
6	Robert Lilligren	14	Toni Carter
7	Yassin Osman	15	Victor Obisakin
8	Anjuli Cameron	16	Wendy Wulff

Source: Metropolitan Council Redistricting Plan passed by the state legislature on July 3, 2023.

District 1

Capital Program and Projects

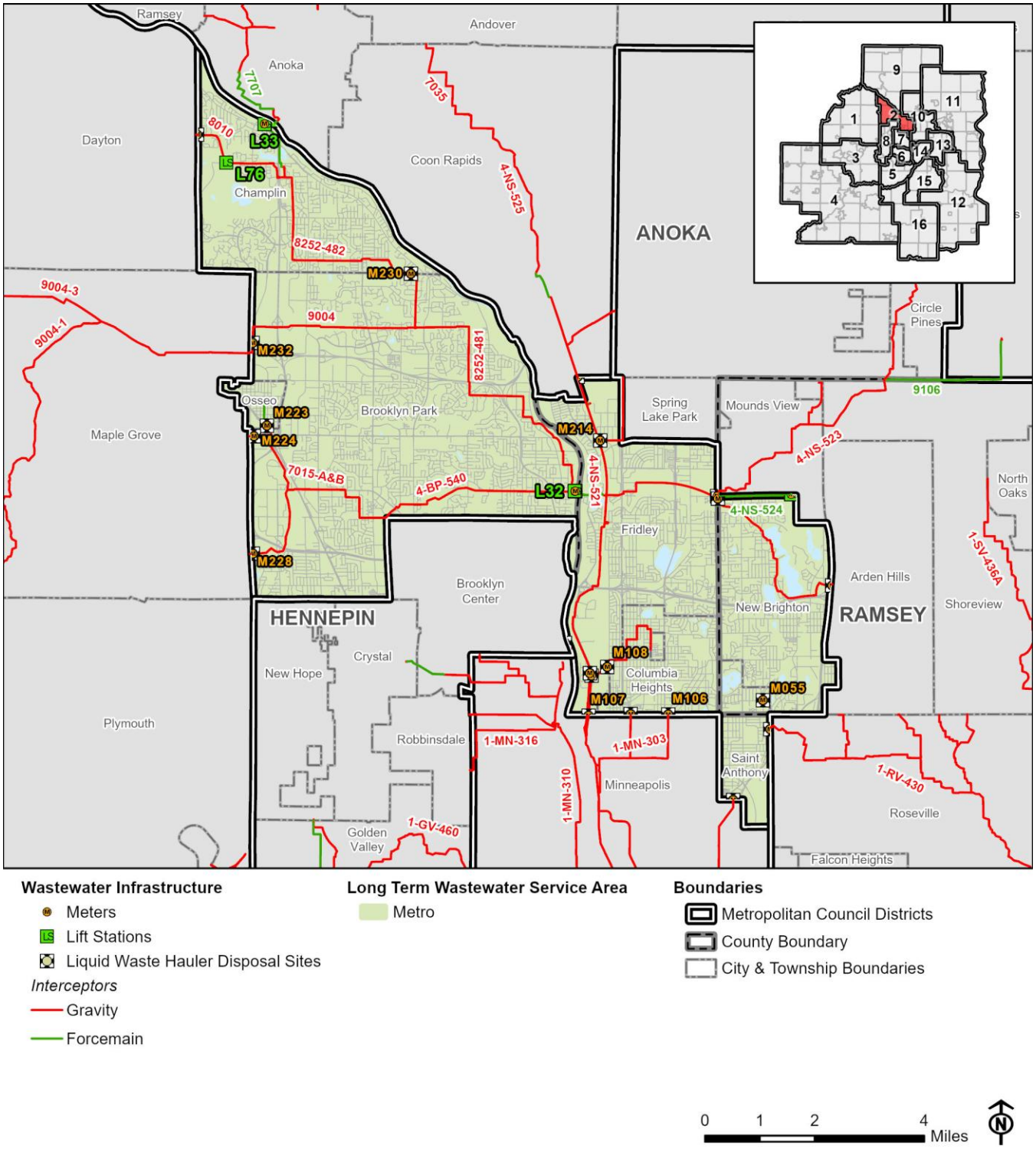
District 1 includes, in Hennepin County, the cities of Corcoran, Dayton, Greenfield, Independence, Loretto, Maple Grove, Maple Plain, Medicine Lake, Medina, Plymouth, and Rogers.



District 2

Capital Program and Projects

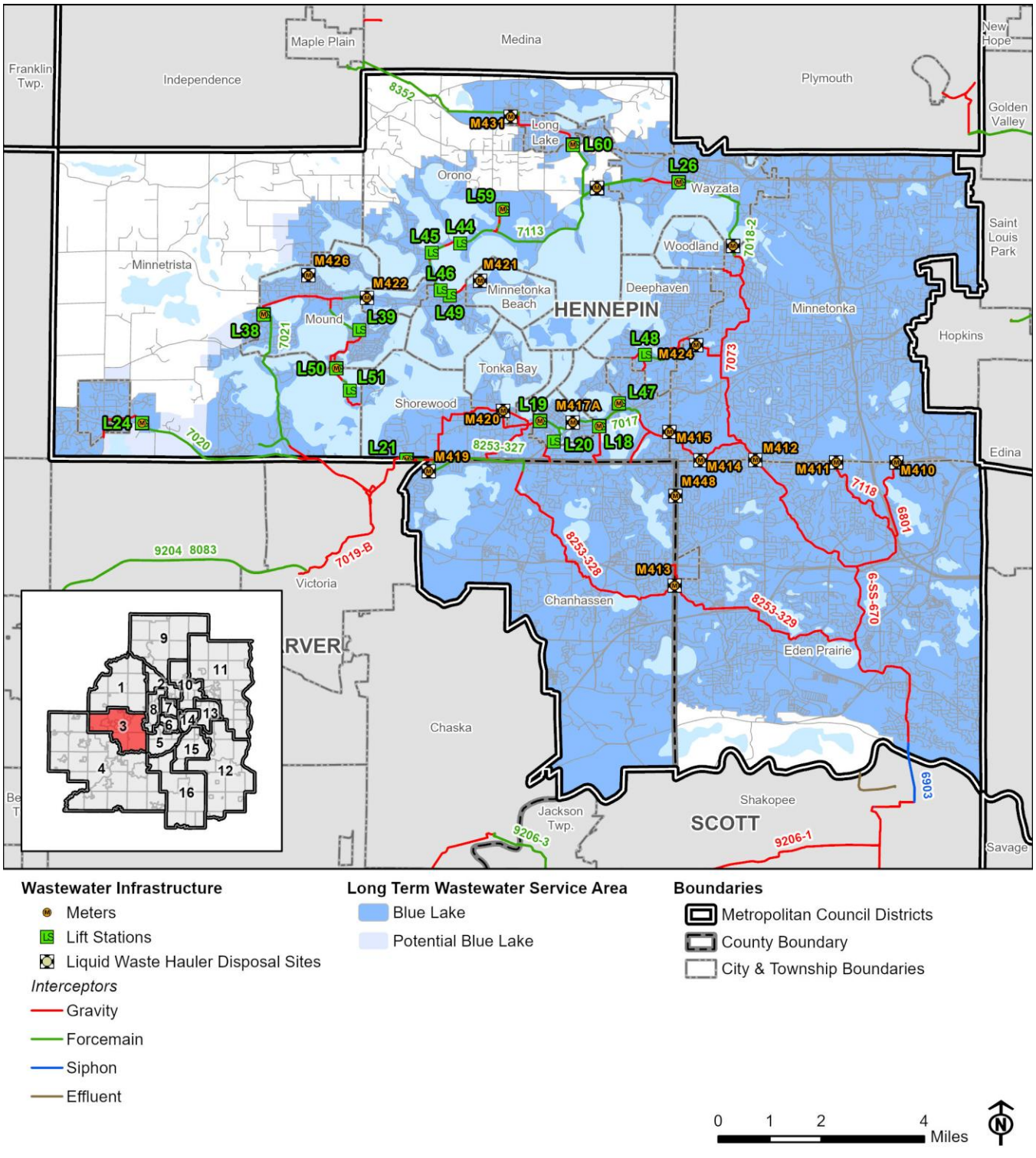
District 2 includes, in Anoka County, the cities of Columbia Heights, Fridley, and Hilltop; in Ramsey County, the city of New Brighton; in Hennepin County, the cities of Brooklyn Park, Champlin, and Osseo; and both the Ramsey and Hennepin County portions of the city of Saint Anthony.



District 3

Capital Program and Projects

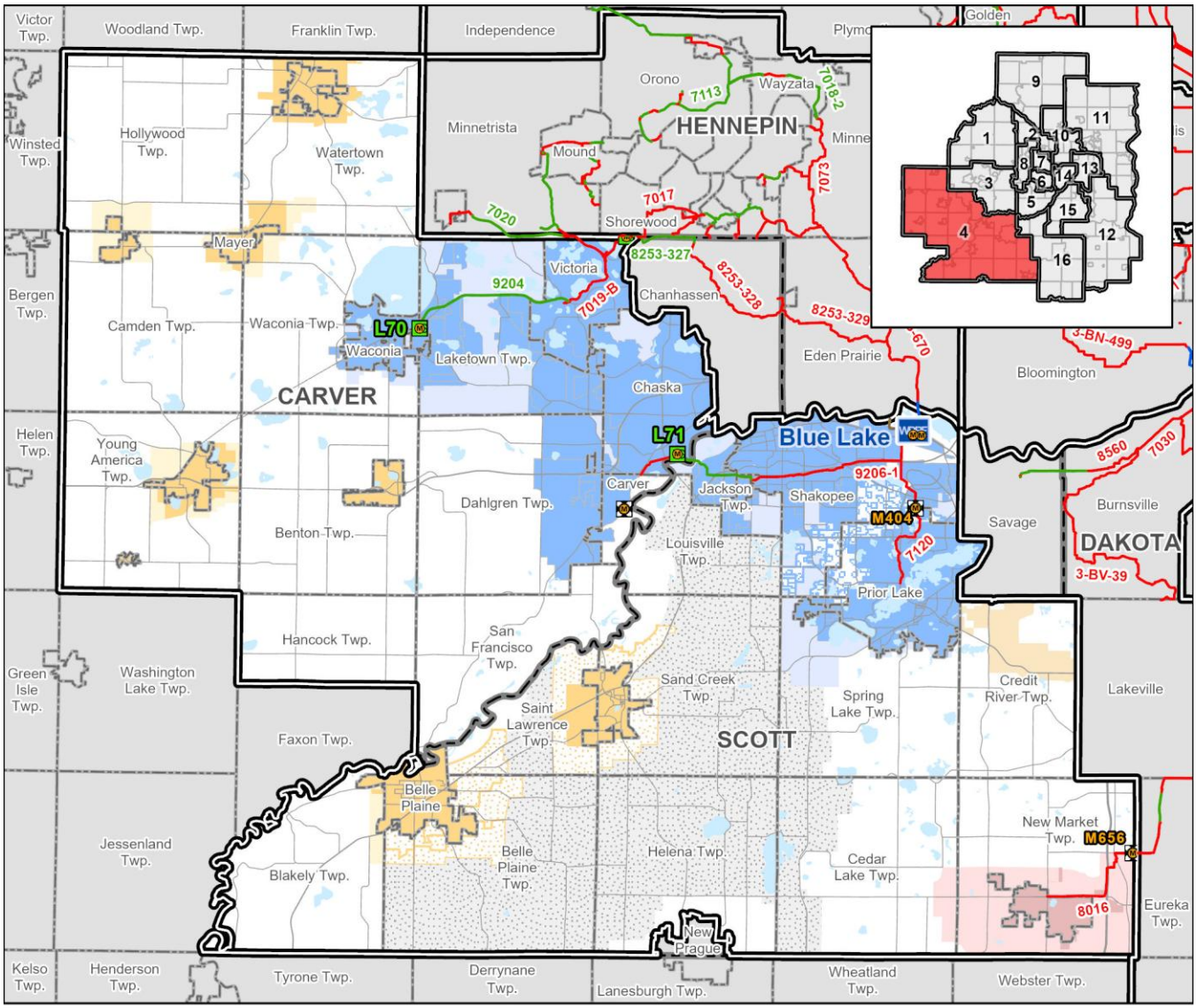
District 3 includes, in Carver County, the city of Chanhassen; and in Hennepin County, the cities of Deephaven, Eden Prairie, Excelsior, Greenwood, Long Lake, Minnetonka Beach, Minnetonka, Minnetrista, Mound, Orono, Saint Bonifacius, Shorewood, Spring Park, Tonka Bay, Wayzata, and Woodland.



District 4

Capital Program and Projects

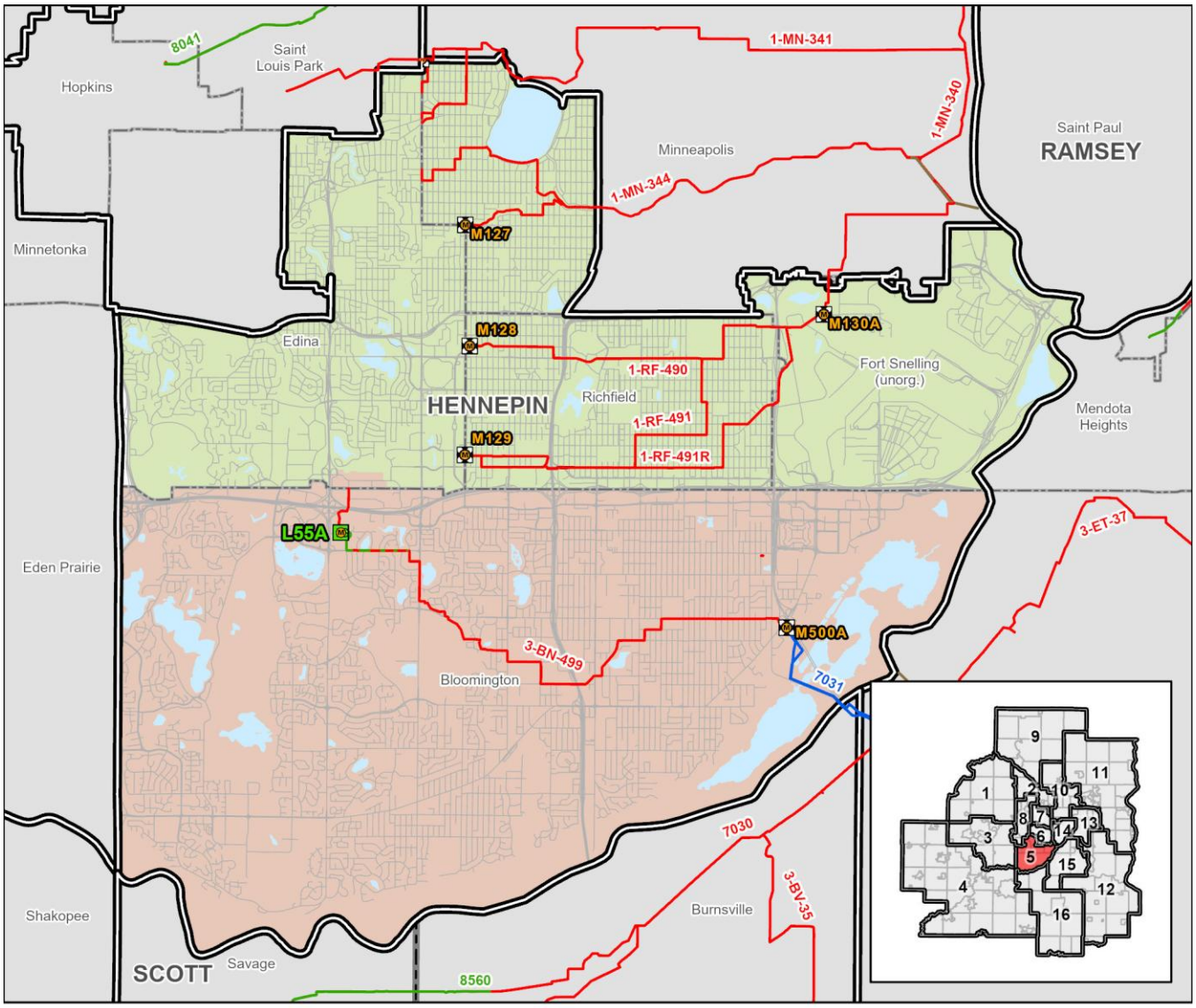
District 4 includes, in Carver County, the cities of Carver, Chaska, Cologne, Hamburg, Mayer, New Germany, Norwood Young America, Victoria, Waconia, and Watertown; and the townships of Benton, Camden, Dahlgren, Hancock, Hollywood, Laketown, San Francisco, Waconia, Watertown, and Young America. In Scott County, the cities of Belle Plaine, Elko New Market, Jordan, Prior Lake, and Shakopee; and the townships of Belle Plaine, Blakeley, Cedar Lake, Credit River, Helena, Jackson, Louisville, New Market, St. Lawrence, Sand Creek, and Spring Lake.



District 5

Capital Program and Projects

District 5 includes, in Hennepin County, the cities of Bloomington and Richfield; portions of the City of Edina, including the southern half of the city between I-494 and Minnesota Highway 62, and the northeastern quadrant of the city (just west of Minnesota Highway 100); and southwest corner of the city of Minneapolis: west of Lyndale Avenue, south of 42nd Street (east of Lake Harriet), south of Lake Harriet, and neighborhoods on the west side of Lake Harriet and south of 39th Street West. The district also includes the unorganized territory around Fort Snelling.



Wastewater Infrastructure

- Meters
- Lift Stations
- Liquid Waste Hauler Disposal Sites

Interceptors

- Gravity
- Forcemain
- Siphon

Long Term Wastewater Service Area

- Metro
- Seneca

Boundaries

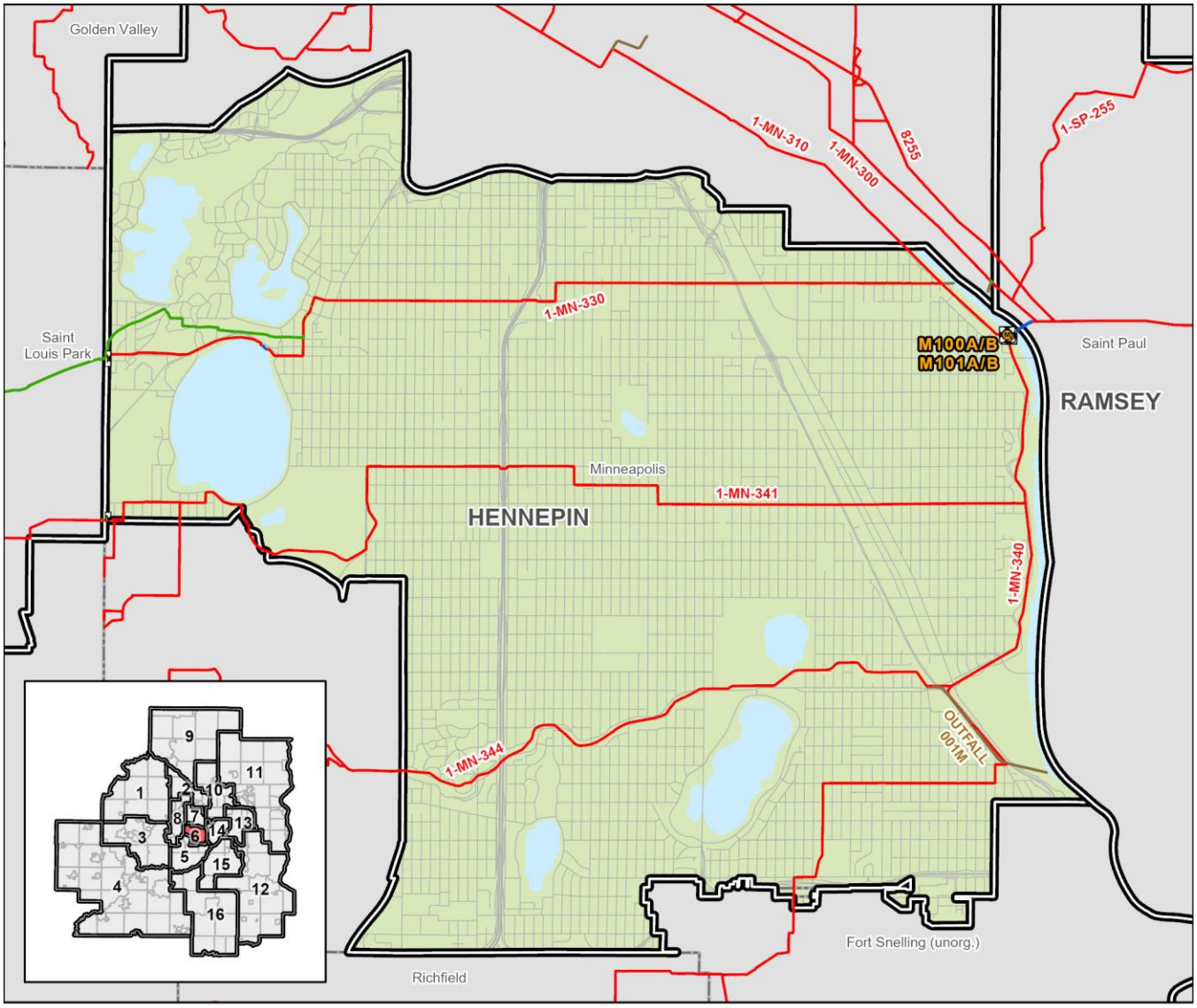
- Metropolitan Council Districts
- County Boundary
- City & Township Boundaries

0 1 2 4 Miles

District 6

Capital Program and Projects

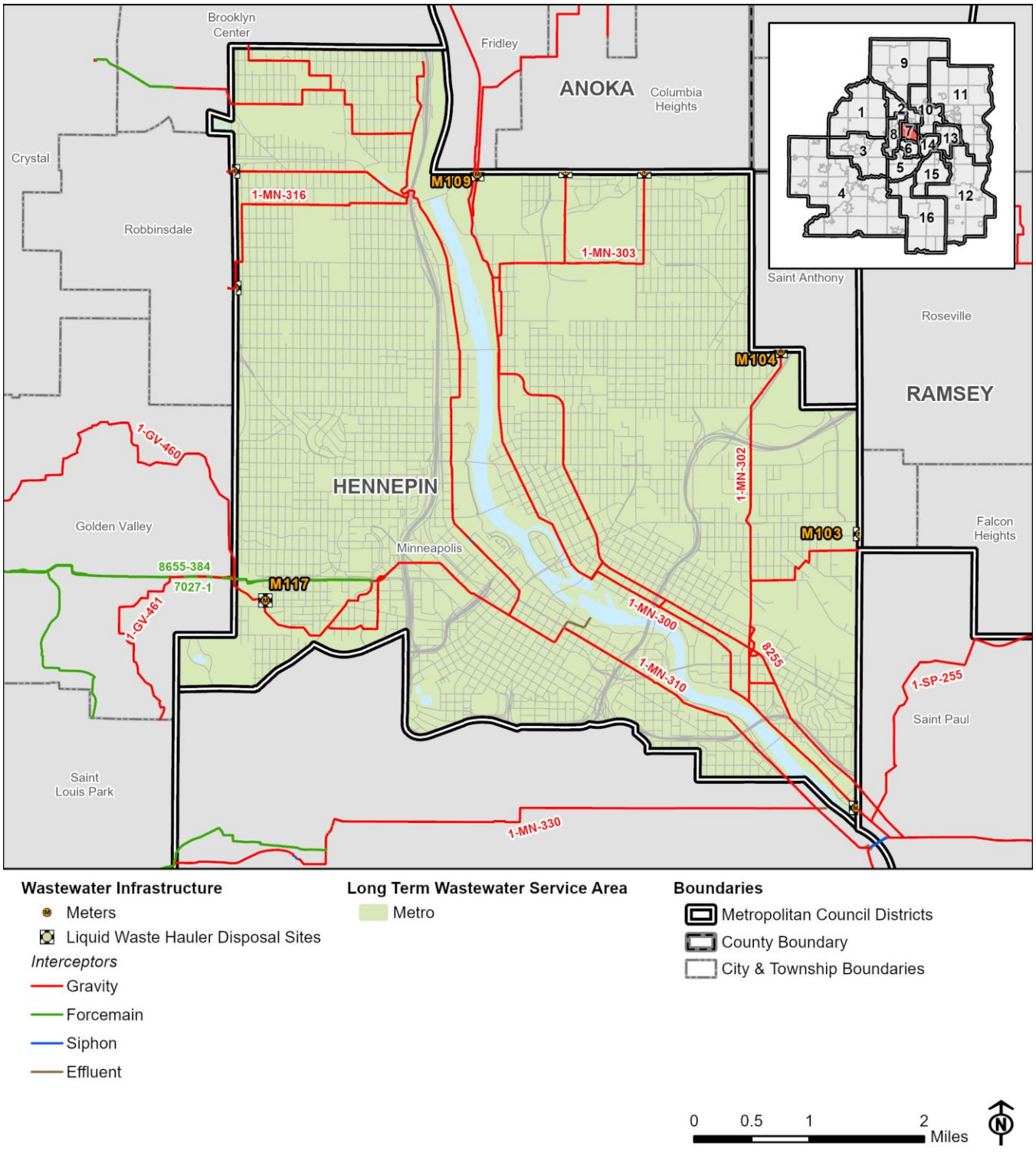
District 6 includes portions of the City of Minneapolis along I-35W, generally north to I-94 and I-394 (including the eastern Bryn Mawr neighborhood) along Franklin Avenue, bounded by the Mississippi River on the east, and southwest portions of the city of Minneapolis, east of Lyndale Avenue, north of 42nd Street (east of Lake Harriet), north of Lake Harriet, and neighborhoods on the west side of Lake Harriet and north of 39th Street West (around Bde Maka Ska).



District 7

Capital Program and Projects

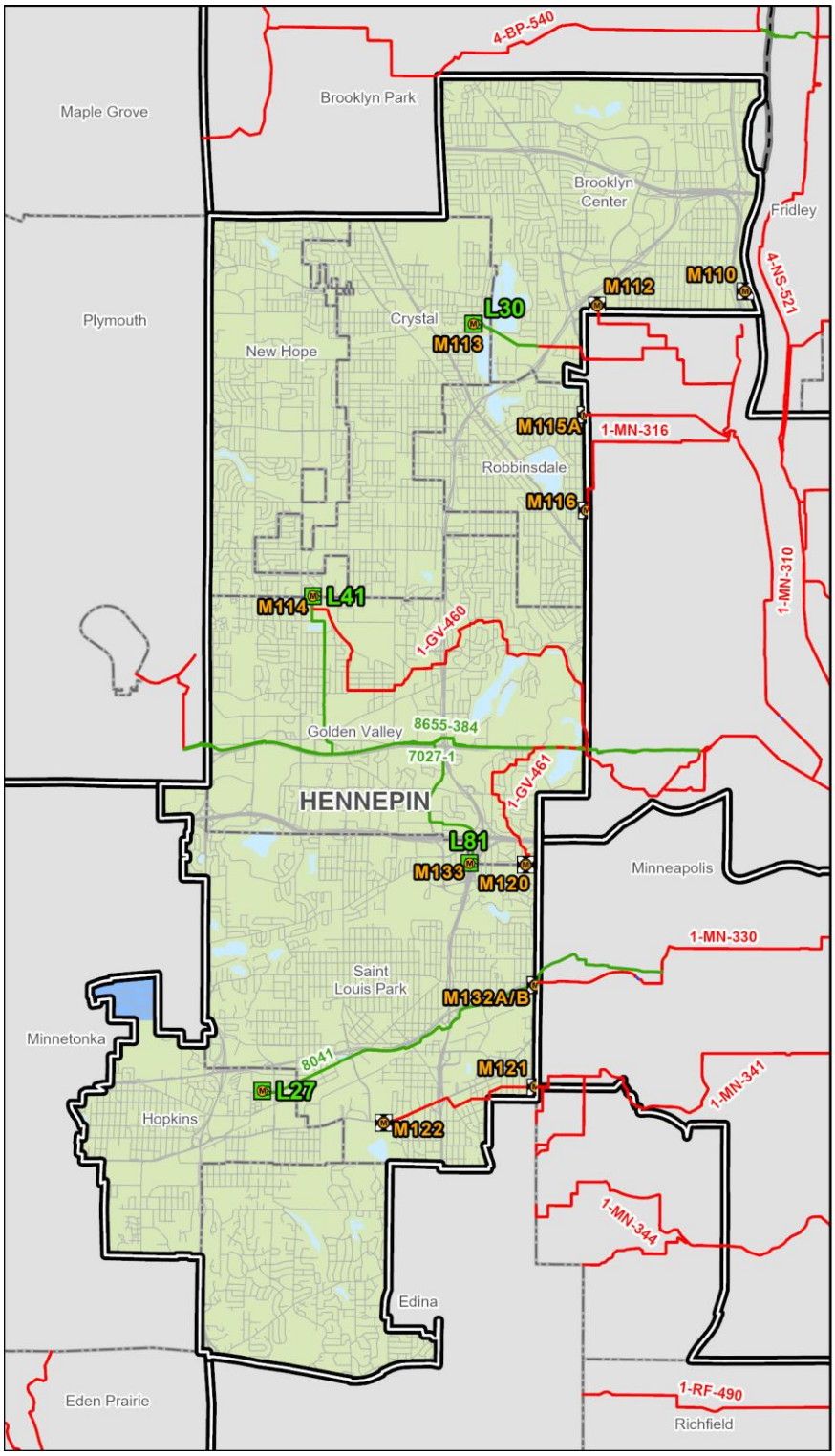
District 7 includes portions of the City of Minneapolis north of I-394 (excluding the eastern Bryn Mawr neighborhood), east and north of I-94, except portions north of Franklin Avenue in south Minneapolis.

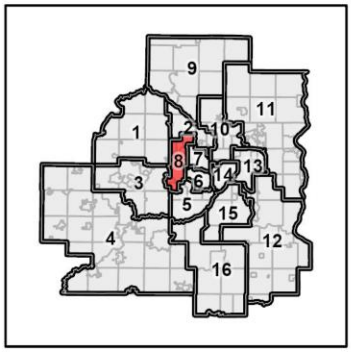


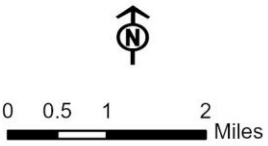
District 8

Capital Program and Projects

District 8 includes, in Hennepin County, the cities of Brooklyn Center, Crystal, Golden Valley, Hopkins, New Hope, Robbinsdale, St. Louis Park, and the northwestern quadrant of Edina (north of Minnesota Highway 62).







Wastewater Infrastructure

- Meters
- Lift Stations
- Liquid Waste Hauler Disposal Sites

Interceptors

- Gravity
- Forcemain

Long Term Wastewater Service Area

- Blue Lake
- Metro

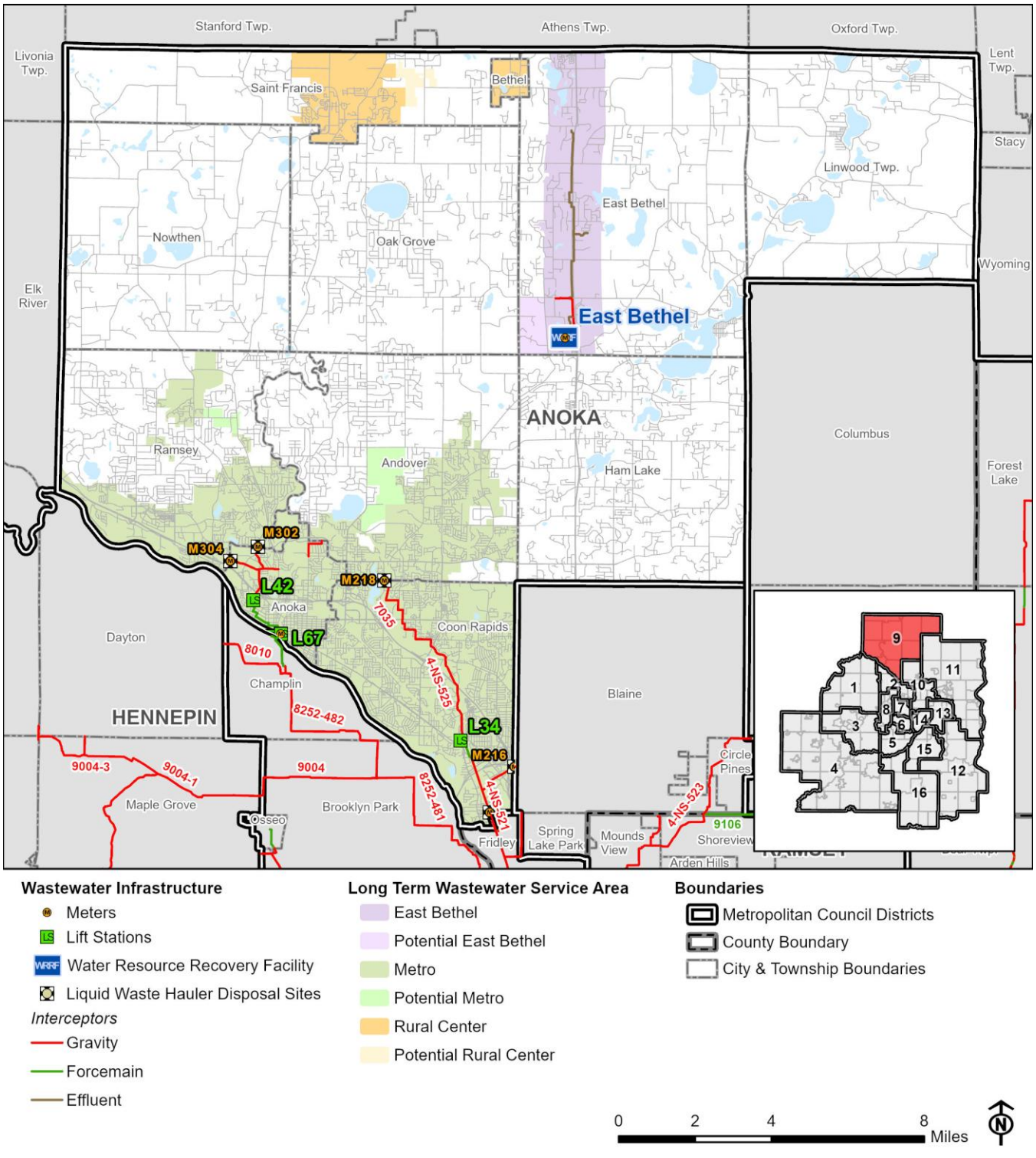
Boundaries

- Metropolitan Council Districts
- County Boundary
- City & Township Boundaries

District 9

Capital Program and Projects

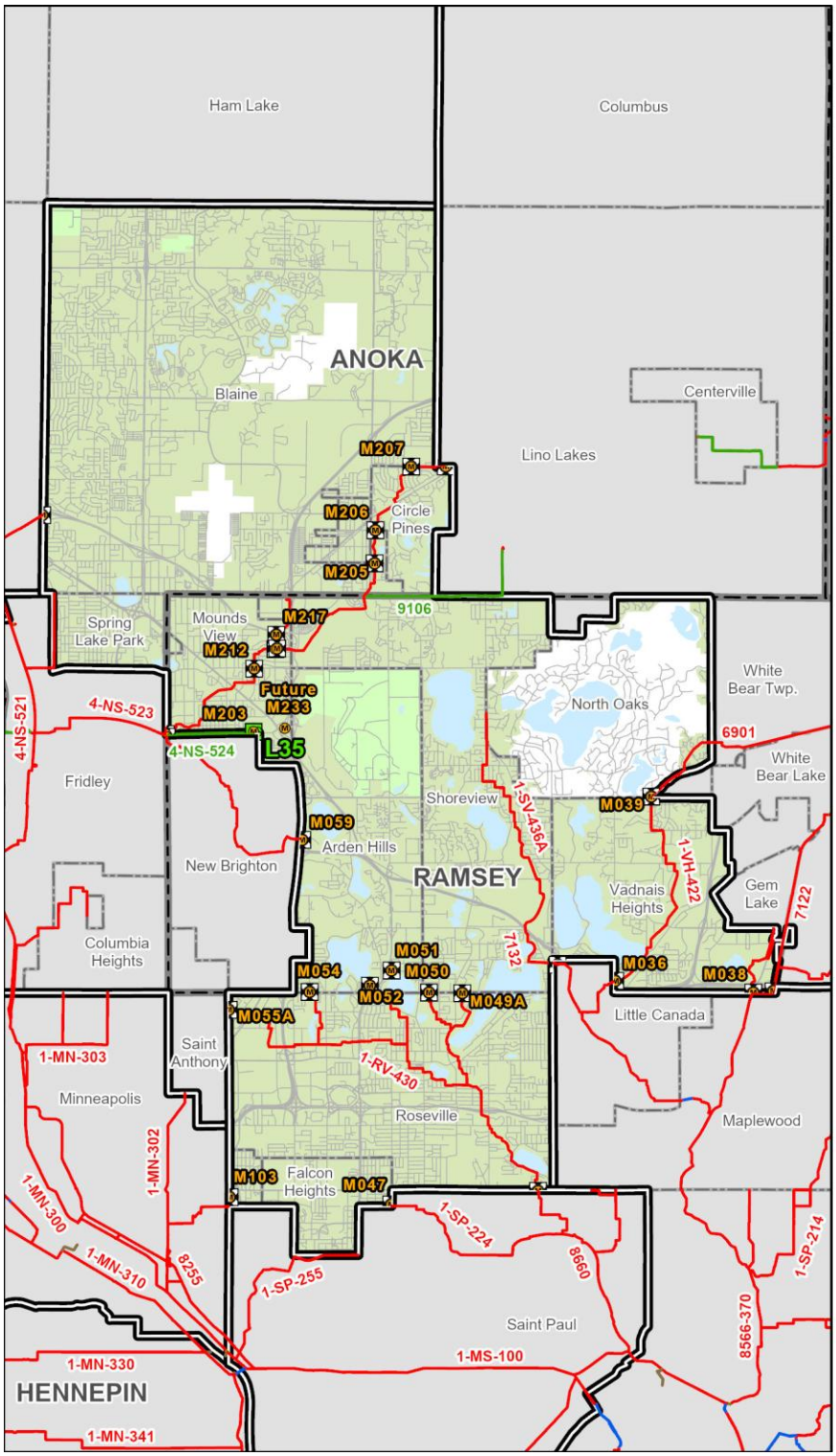
District 9 includes, in Anoka County, the cities of Andover, Anoka, Bethel, Coon Rapids, East Bethel, Ham Lake, Nowthen, Oak Grove, Ramsey, St. Francis; and Linwood Township.

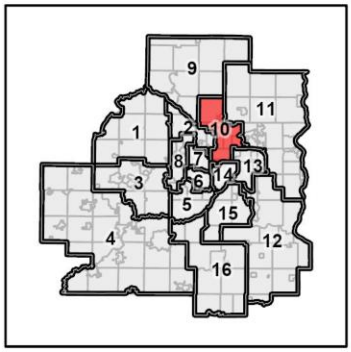


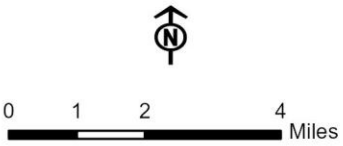
District 10

Capital Program and Projects

District 10 includes, in Anoka County, the cities of Blaine, Circle Pines, Lexington, and Spring Lake Park; and in Ramsey County, the cities of Arden Hills, Falcon Heights, Lauderdale, Mounds View, North Oaks, Roseville, Shoreview, and Vadnais Heights.







Wastewater Infrastructure

- Meters
- Lift Stations
- Liquid Waste Hauler Disposal Sites

Interceptors

- Gravity
- Forcemain

Long Term Wastewater Service Area

- Metro
- Potential Metro

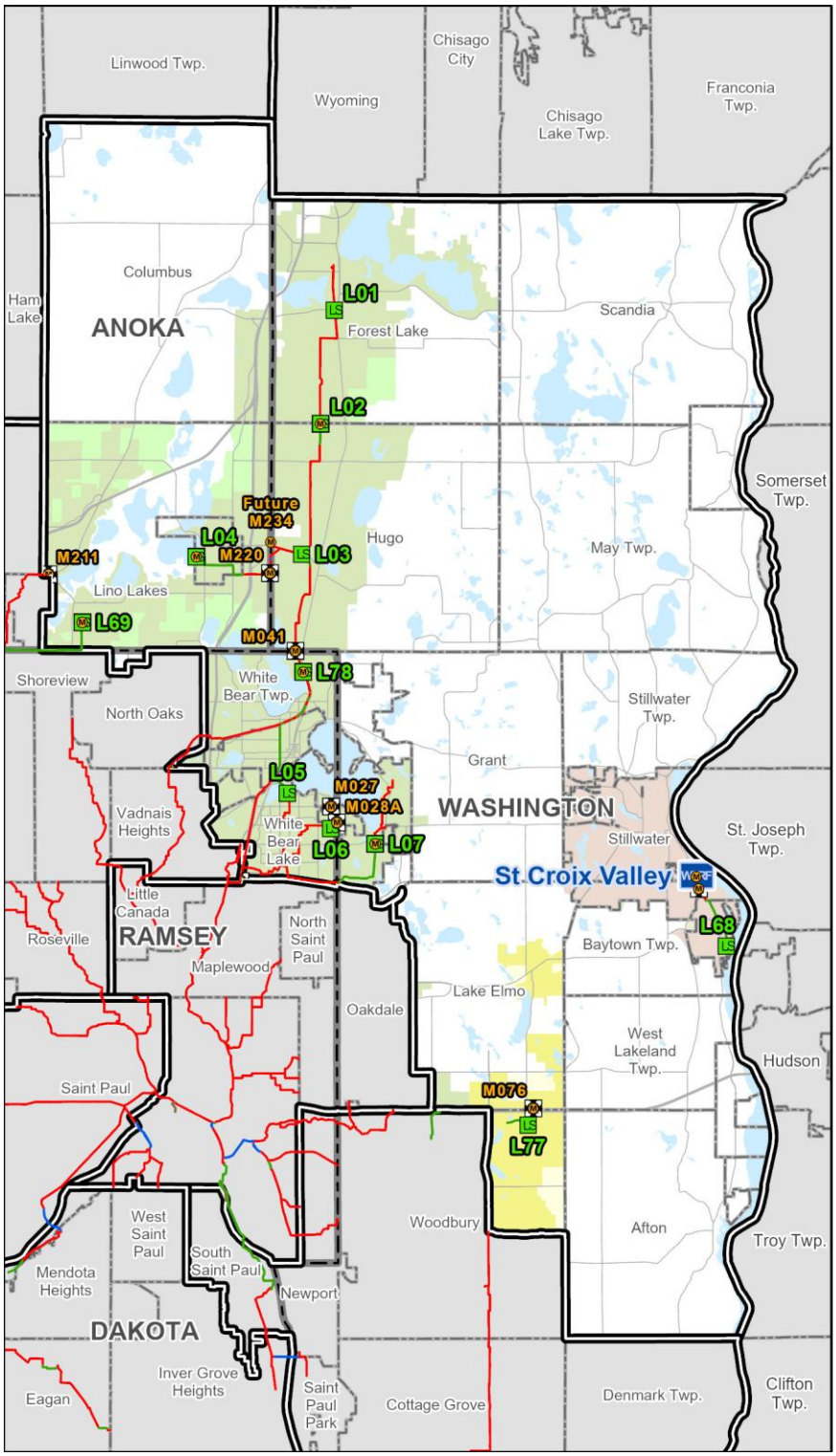
Boundaries

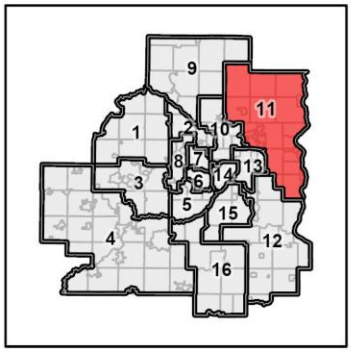
- Metropolitan Council Districts
- County Boundary
- City & Township Boundaries

District 11

Capital Program and Projects

District 11 includes, in Anoka County, the cities of Centerville, Columbus, and Lino Lakes; in Ramsey County, the cities of Gem Lake and White Bear Lake; and in Washington County, the cities of Afton, Bayport, Birchwood Village, Dellwood, Forest Lake, Grant, Hugo, Lake Elmo, Lake St. Croix Beach, Lakeland, Lakeland Shores, Mahtomedi, Marine on St. Croix, May, Oak Park Heights, Pine Springs, St. Mary's Point, Scandia, Stillwater, White Bear Lake, Willernie, and the northeast quadrant of the City of Woodbury, south of I-94, east of Woodbury Drive, and north of Bailey Road; and the townships of Baytown, May, Stillwater, and West Lakeland.





N

0 1.75 3.5 7 Miles

Wastewater Infrastructure

- Meters
- Lift Stations
- Water Resource Recovery Facility
- Liquid Waste Hauler Disposal Sites

Interceptors

- Gravity
- Forcemain
- Siphon
- Effluent

Long Term Wastewater Service Area

- Eagles Point
- Potential Eagles Point
- Metro
- Potential Metro
- St. Croix Valley
- Potential St. Croix Valley

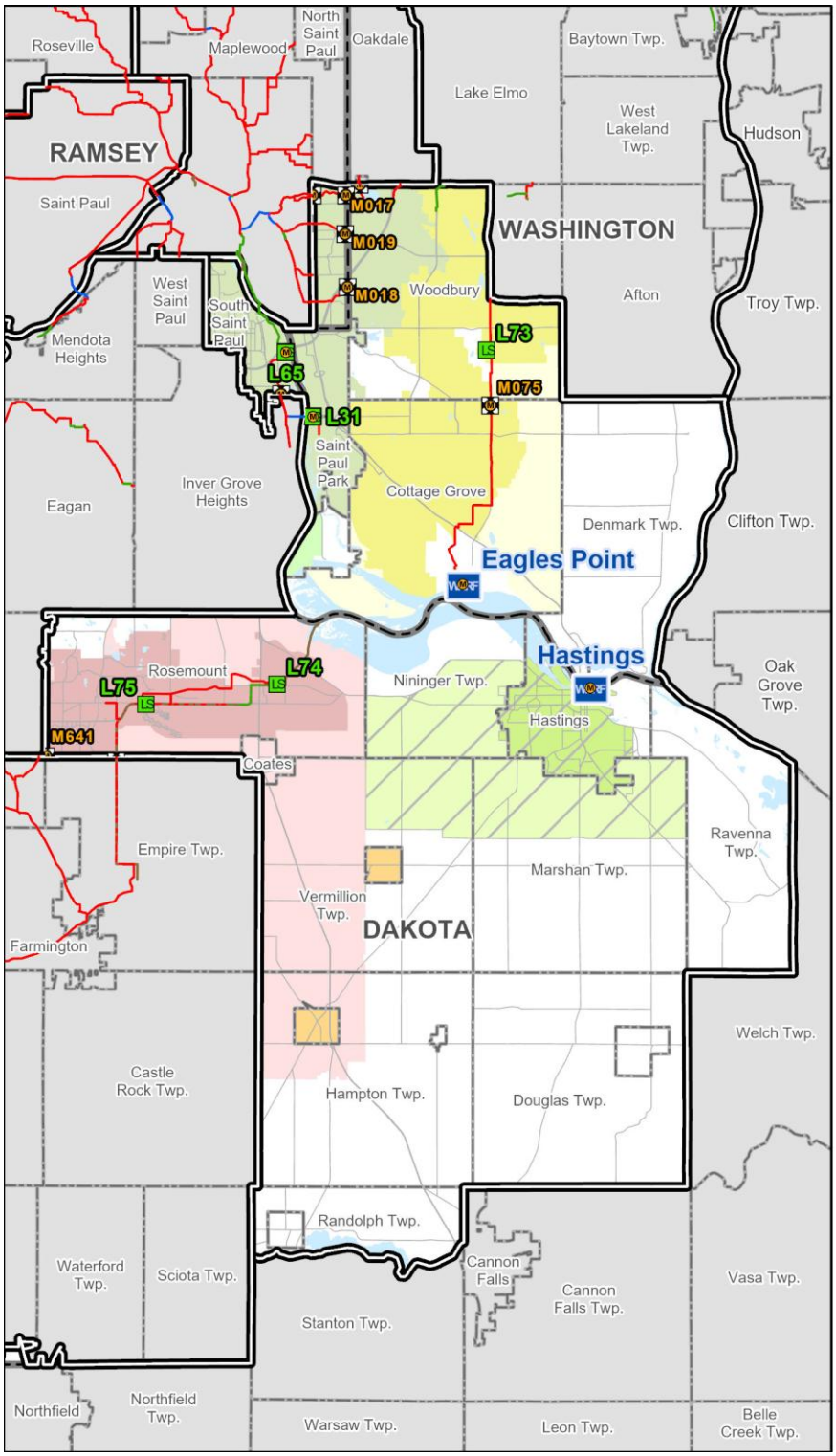
Boundaries

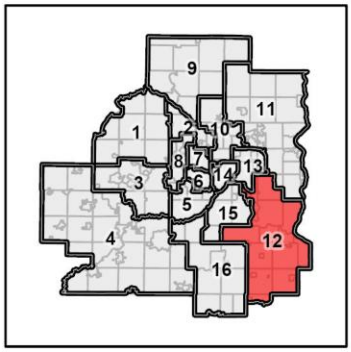
- Metropolitan Council Districts
- County Boundary
- City & Township Boundaries

District 12

Capital Program and Projects

District 12 includes, in Dakota County, the cities of Coates, Hampton, Hastings, Miesville, New Trier, Randolph, Rosemount, South St. Paul, and Vermillion; and the townships of Douglas, Hampton, Marshan, Nininger, Randolph, Ravenna, and Vermillion; in Ramsey County, the portion of the city of Maplewood south of I-94; and in Washington County, the cities of Cottage Grove, Hastings, Newport, St. Paul Park, and the remaining two-thirds of the City of Woodbury west of Woodbury Drive and south of Bailey Road; and the townships of Denmark and Grey Cloud Island.





0 1 2 4 Miles

Wastewater Infrastructure

- Meters
- Lift Stations
- Water Resource Recovery Facility
- Liquid Waste Hauler Disposal Sites

Interceptors

- Gravity
- Forcemain
- Siphon
- Effluent

Long Term Wastewater Service Area

- Eagles Point
- Potential Eagles Point
- Empire
- Potential Empire
- Hastings (Future Study Area)
- Potential Hastings (Future Study Area)
- Metro
- Potential Metro
- Rural Center

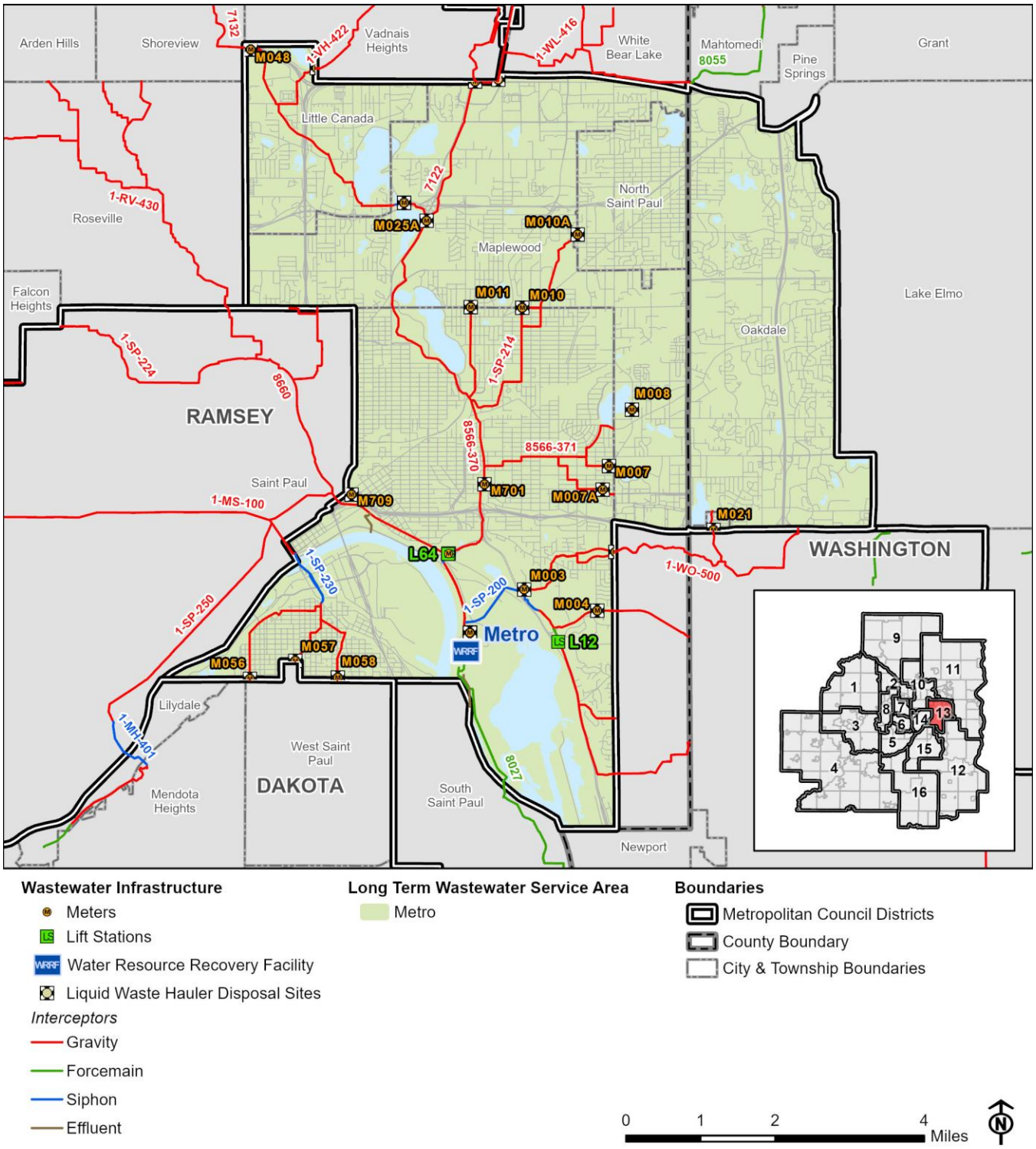
Boundaries

- Metropolitan Council Districts
- County Boundary
- City & Township Boundaries

District 13

Capital Program and Projects

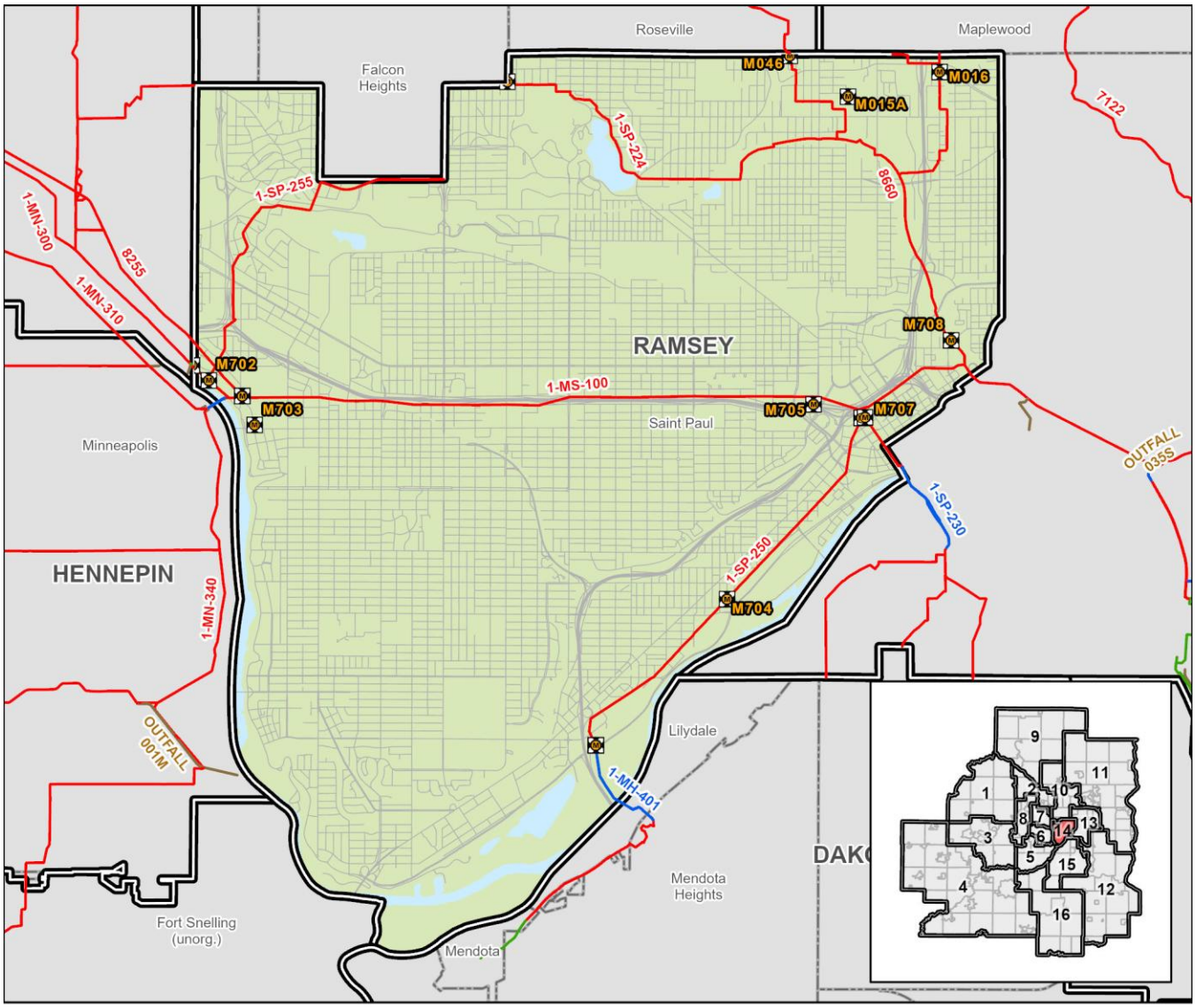
District 13 includes, in Ramsey County, the cities of Little Canada, North St. Paul, the portions of the City of Maplewood north of I-94, and the portions of the City of Saint Paul south of the Mississippi River and east of Edgerton Street; and in Washington County, the cities of Landfall and Oakdale.



District 14

Capital Program and Projects

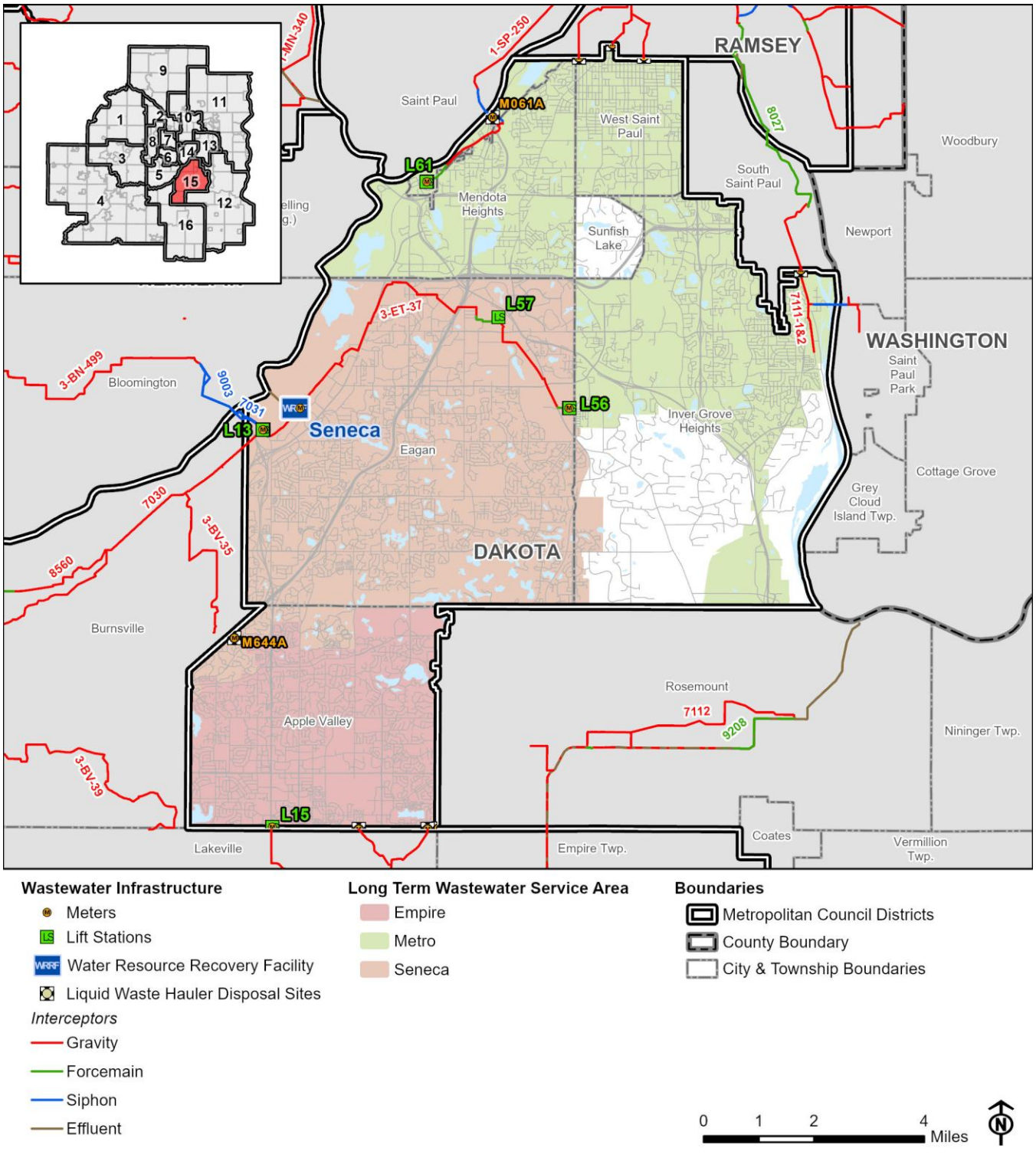
District 14 includes portions of the City of Saint Paul north of the Mississippi River and west of Edgerton Street.



District 15

Capital Program and Projects

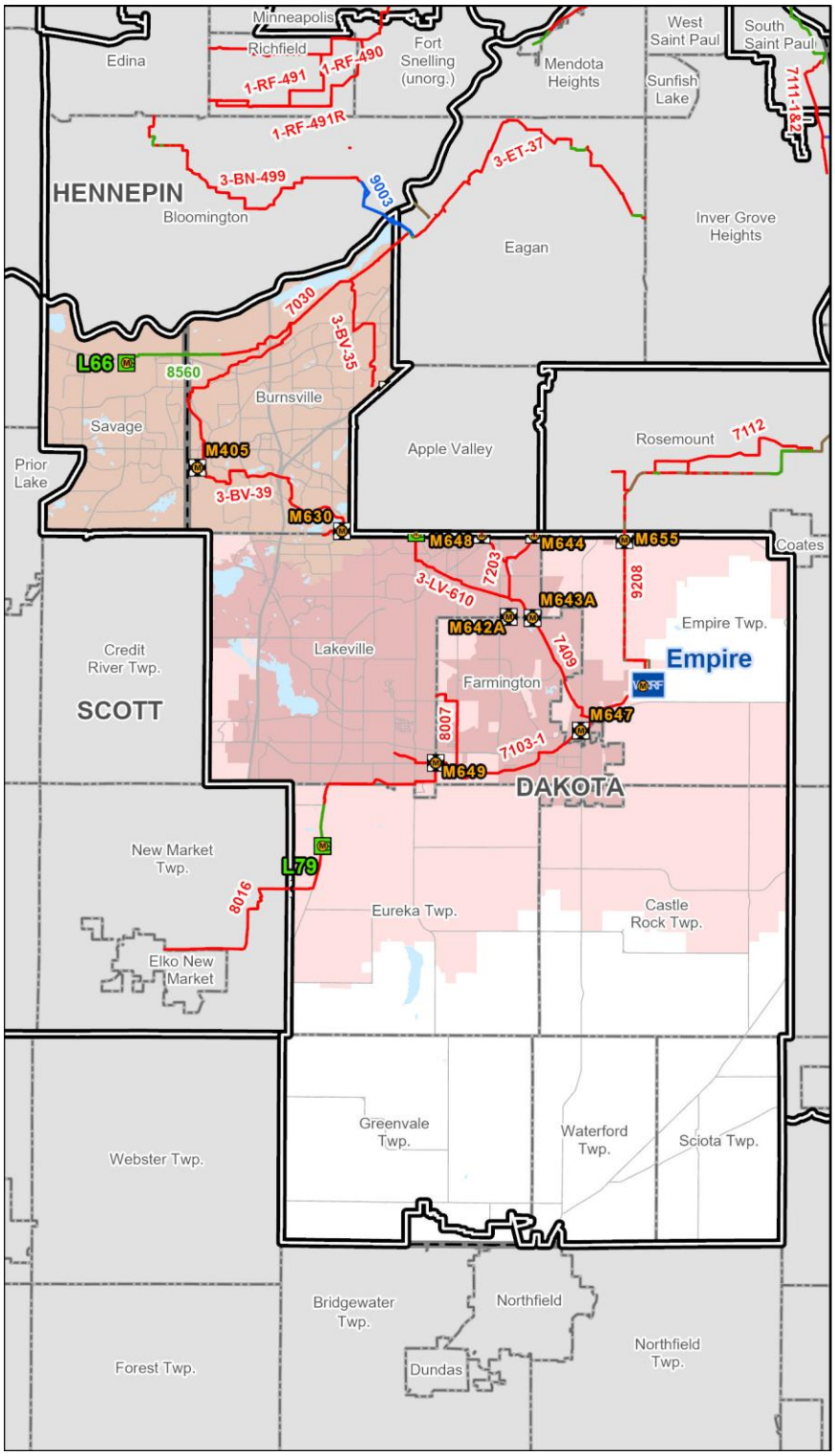
District 15 includes, in Dakota County, the cities of Apple Valley, Eagan, Inver Grove Heights, Lilydale, Mendota, Mendota Heights, Sunfish Lake, and West St. Paul.

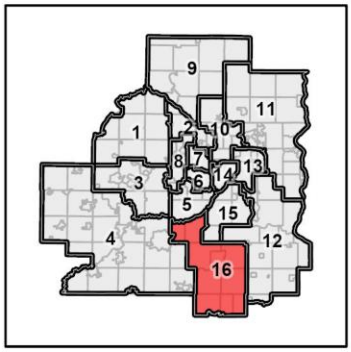


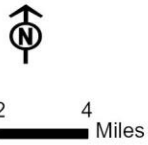
District 16

Capital Program and Projects

District 16 includes, in Dakota County, the cities of Burnsville, Empire, Farmington, and Lakeville; and the townships of Castle Rock, Eureka, Greenvale, Sciota, and Waterford; and in Scott County, the city of Savage.







Wastewater Infrastructure

- Meters
- Lift Stations
- Water Resource Recovery Facility
- Liquid Waste Hauler Disposal Sites

Interceptors

- Gravity
- Forcemain
- Siphon
- Effluent

Long Term Wastewater Service Area

- Empire
- Potential Empire
- Seneca

Boundaries

- Metropolitan Council Districts
- County Boundary
- City & Township Boundaries

Appendix A: Project Summaries by Program – Plants

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Program 8059 – Metro Rehabilitation and Facilities Improvements

View of Metropolitan Water Resource Recovery Facility (WRRF)

Description

This program provides funding for planning and implementation of a plant-wide renewal program at the Metropolitan Water Resource Recovery Facility (Metro WRRF). Planning work is documented in the Metropolitan Wastewater Treatment Plant Rehabilitation and Facilities Improvements Facility Plan (February 2009).

This program will be closed in 2027, upon the final completion of 805998 Metro WRRF Services Building.

Purpose and justification

Projects in this program address renewal needs for continued reliable and sustainable wastewater service at the Metro WRRF through the year 2030.

Program location

The active projects within this program are in the following Council District: 13

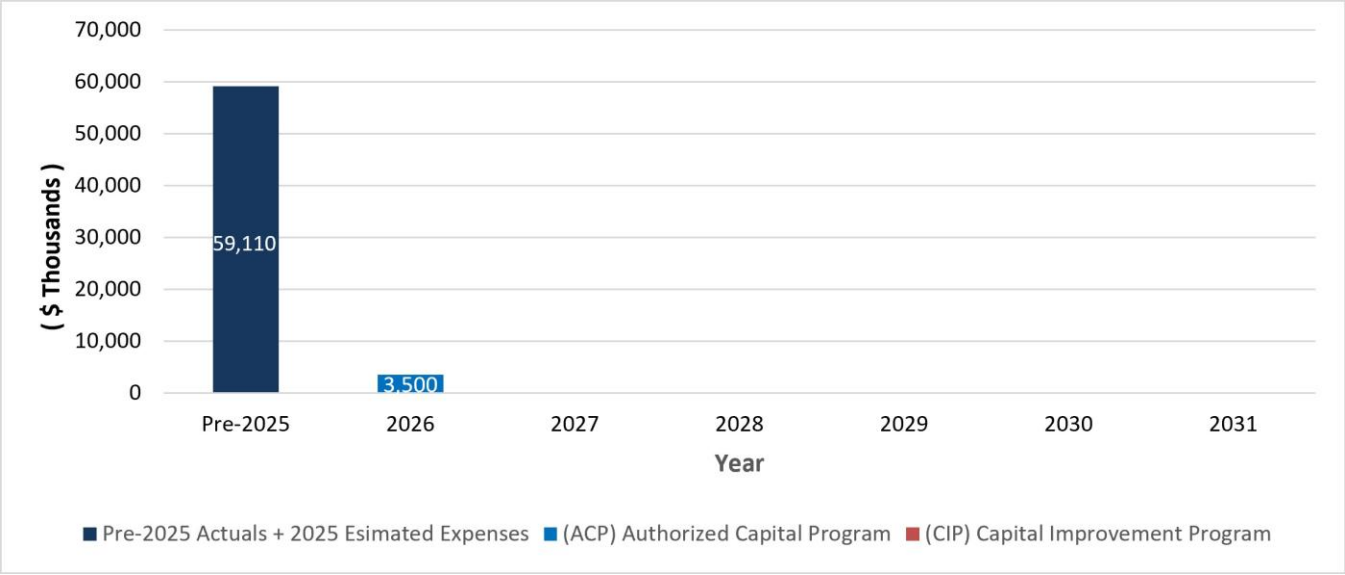
Active projects in program: Metro WRRF Services Building

Environmental Services 2026 through 2031 Capital Program

- Authorized Capital Program (ACP): $62,609,710
- Capital Improvement Plan (CIP): $0

Estimated program cash flow from 2026 through 2031

Note: the ACP is the total amount of all past and present authorizations including pre-2026 expenses.



Program 8062 – Metro WRRF Solids Improvements

Metropolitan Water Resource Recovery Facility (WRRF) Solids Management Building (SMB)

Description

This program provides funding for planning and implementation of improvements to wastewater solids processing facilities at the Metropolitan Water Resource Recovery Facility (Metro WRRF).

Planning work is documented in the Metro Plant Solids Management Improvements Facility Plan (January 2019). The facility plan, which includes the addition of a fourth incinerator followed by renewal of the three existing incinerators, did not qualify for PFA funding. (The project to renew the existing three incinerators is relocated to Program 8103 Metro WRRF Restoration and Improvements.)

Purpose and justification

Projects in this program address capacity and renewal needs for continued reliable and sustainable wastewater solids processing at the Metro WRRF through the year 2050.

Program location

The active projects within this program are Council District: 13

Active projects in program

Project Number	Project Title
806211	Metro WRRF Solids Auxiliary Systems
806230	Metro WRRF Fourth Incinerator

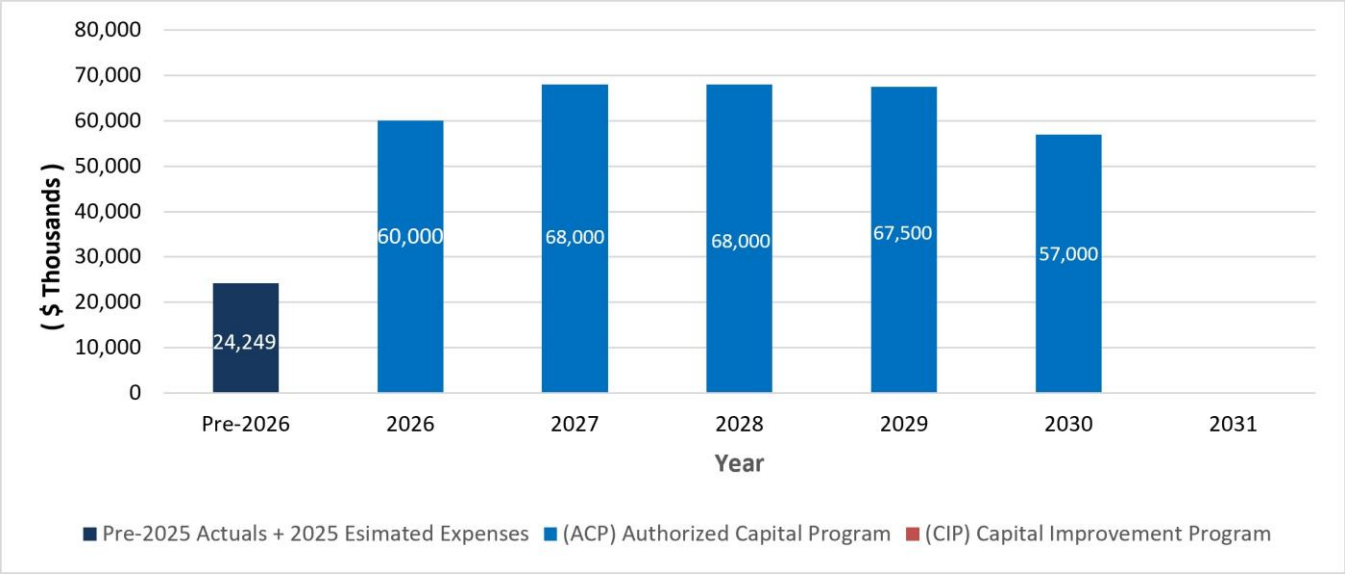
(Continued on next page)

Environmental Services 2026 through 2031 Capital Program

- Authorized Capital Program (ACP): $344,748,946
- Capital Improvement Plan (CIP): $0

Estimated program cash flow from 2026 through 2031

Note: the ACP is the total amount of all past and present authorizations including pre-2026 expenses.



Metro WRRF Solids Auxiliary Systems

Program family 8062 **Project #806211**

Project location: Council District #13, City of Saint Paul, Metro WRRF

Existing Primary Heat Exchanger to be Rehabilitated

Existing Auxiliary Condenser to be Replaced

Project type
Facility

Objectives
Asset Preservation and Quality Improvements

Scope
This project includes rehabilitating primary heat exchangers, replacing auxiliary condensers, adding an additional effluent water pump, demolishing fuel oil tanks, installing oxygen meters, and installing effluent water softening.

Project need
This project is needed to renew existing equipment, reduce annual costs, and increase reliability.

Planning: 2011 through 2019	Design: 2025 through 2027	Construction: 2027 through 2029

Financial analysis

2026 cash flow:	$2,000,000
Current ACP:	$3,530,000
2026 through 2031 cash flow:	$32,000,000
Total project cost:	$32,432,000

Metro WRRF Fourth Incinerator

Program family 8062 **Project #806230**

Project location: Council District #13, City of Saint Paul, Metro WRRF

3D Rendering of Fourth Incinerator at Metro WRRF

Project type
Facility

Objectives
System Expansion and Asset Preservation

Scope
Expand the Metro WRRF Solids Management Building and install a fourth incinerator train next to the existing three. The fourth train will include energy recovery, air pollution control, and related solids processing equipment.

Project need
The Metro WRRF needs additional solids treatment capacity to preserve existing wastewater infrastructure and to serve regional population growth through the year 2050.

Project schedule:

Planning:	Preliminary Design:	Design-Build Construction:
2011 through 2019	2020 through 2024	2025 through 2028

Financial analysis

2026 cash flow:	$57,000,000
Current ACP:	$285,000,000
2026 through 2031 cash flow:	$285,000,000
Total project cost:	$307,529,000

Program 8074 – Empire WRRF Solids Improvements

Aerial view of Empire Water Resource Recovery Facility (WRRF)

Description

This program provides funding for planning and implementation of improvements to the wastewater solids processing facilities at the Empire Water Resource Recovery Facility (WRRF).

This program will end upon final completion of 807401 Empire WRRF Solids Improvements Phase II. This program is anticipated to close in 2026.

Purpose and justification

Projects in this program address capacity constraints and improve performance for wastewater solids processing at the Empire WRRF.

Program location

The active projects within this program are in Council District: 16

Active projects in program

Project Number	Project Title
807401	Empire WRRF Solids Improvements Phase II

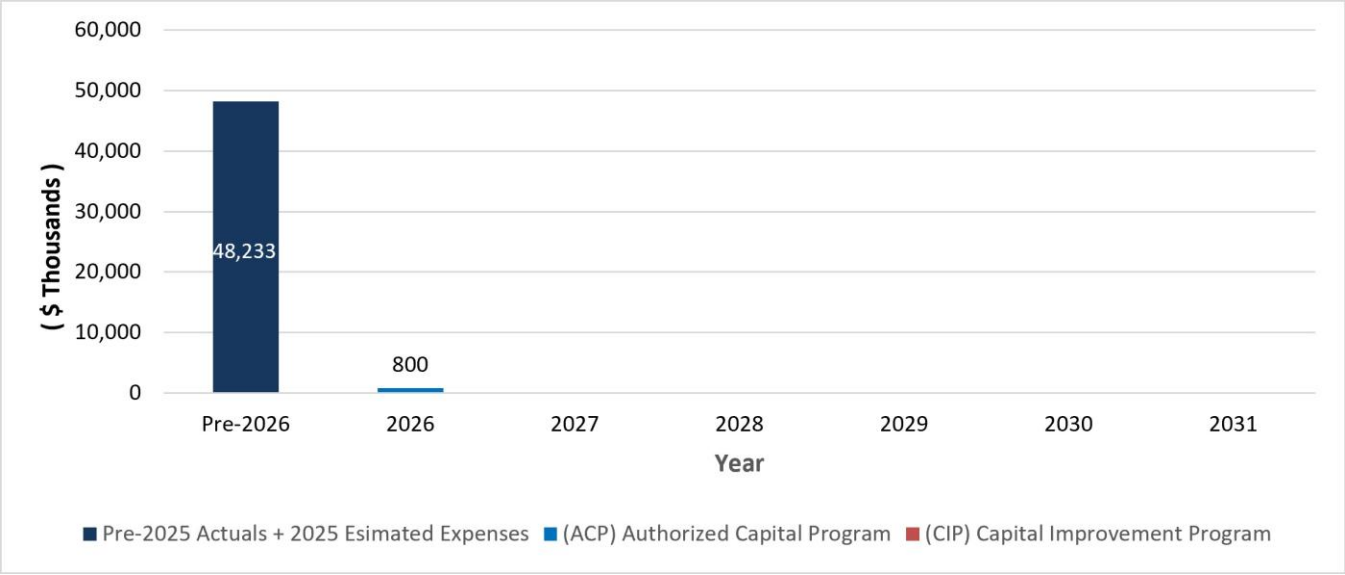
(Continued on next page)

Environmental Services 2026 through 2031 Capital Program

- Authorized Capital Program (ACP): $49,032,678
- Capital Improvement Plan (CIP): $0

Estimated program cash flow from 2026 through 2031

Note: the ACP is the total amount of all past and present authorizations including pre-2026 expenses.



Empire WRRF Solids Improvements Phase II

Program family 8074 **Project #807401**

Project location: Council District #16, City of Empire, Empire WRRF

Biogas flare and Digesters 4 and 5 at Empire WRRF

Project type
Facility

Objectives
Asset Preservation, Quality Improvements

Scope
Modify existing digesters to increase solids processing capacity. Add advanced biogas treatment to remove hydrogen sulfide and siloxanes from biogas prior to use as fuel in a combined heat and power (CHP) engine generator. CHP will generate heat and electricity for onsite use.

Project need
Solids treatment capacity at the Empire Facility must be increased to accommodate future growth in the service area. CHP will generate approximately one third of the plant's heat and power demand utilizing biogas generated onsite as fuel.

Project schedule:

Planning: 2011 through 2013	Design: 2019 through 2020	Construction: 2021 through 2025

Financial analysis

2026 cash flow:	$800,000
Current ACP:	$19,010,000
2026 through 2031 cash flow:	$800,000
Total project cost:	$17,729,000

Program 8078 – Regional WRRF Improvements

Aerial view of the Rogers Water Resource Recovery Facility acquired by ES in 2018

Description

This program provides funding to complete planning activities and near-term capital improvements (not otherwise included in a separate program) at 8 regional Water Resource Recovery Facilities (WRRF).

Purpose and justification

Projects in this program provide component and system renewal needs and improvements at the regional WRRFs. These projects are outside of the realm of major plant expansion. The projects may also be in response to items that were not fully optimized in other major regional plant rehabilitation/renewal projects.

Program location

The active projects within this program are in the following Council Districts: All

Active projects in program

Project Number	Project Title
807803	Blue Lake WRRF Administration Building.
807805	East Bethel WRRF Improvements.
807811	St. Croix Valley WRRF Upgrades
807864	Seneca Piping and Site Rehabilitation
807865	Regional WRRFs PLC Renewal
807899	Regional Facility Planning
8078XX	Hastings WRRF Secondary Treatment Rehabilitation and Process Improvements

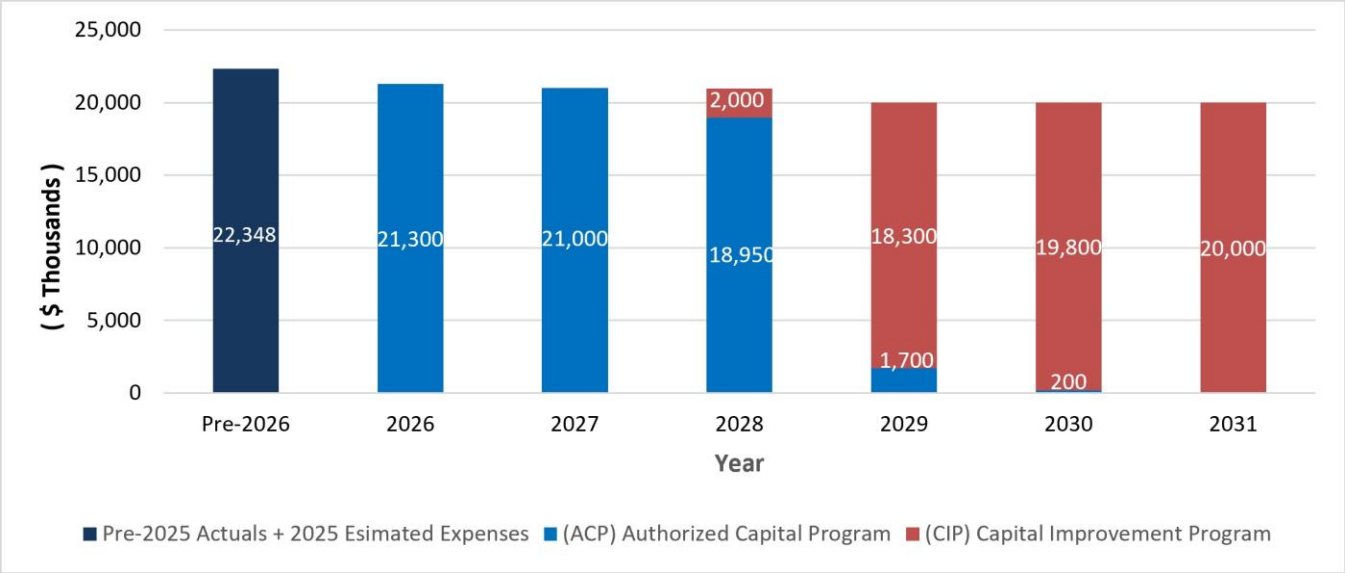
(Continued on next page)

Environmental Services 2026 through 2031 Capital Program

- Authorized Capital Program (ACP): $85,497,967
- Capital Improvement Plan (CIP): $60,100,000

Estimated program cash flow from 2026 through 2031

Note: the ACP is the total amount of all past and present authorizations including pre-2026 expenses.



Blue Lake WRRF Administration Building

Program family 807800 **Project #807803**

Project location: Council District #4, City of Shakopee, Blue Lake WRRF

Blue Lake WRRF Administration Building

Project type
Facility

Objectives
Asset Preservation, Quality Improvements

Scope
Based on building assessments, modify space and/or construct an addition to the Administration Building to better accommodate staff, tours, and training.

Project need
The Administration Building is not well suited for meetings and school field trips. The Administration Building needs restroom Americans with Disabilities Act (ADA) accessibility improvements.

Project schedule:

Planning: 2020 through 2026	Design: TBD	Construction: TBD

Financial analysis

2026 cash flow:	$0
Current ACP:	$0
2026 through 2031 cash flow:	$5,000,000
Total project cost:	$5,000,000

East Bethel WRRF Improvements

Program family 807800 **Project #807805**

Project location: Council District #9, City of East Bethel, East Bethel WRRF

East Bethel Water Resource Recovery (WRRF) Facility

Project type
Facility

Objectives
Quality Improvements

Scope
The scope includes mechanically and electrically connecting multiple process tanks for the first time, new blowers and new electrical transfer equipment.

Project need
East Bethel was brought online in 2014 at less than 10% of design flow. Now that flows have increased, the facility needs to be reconfigured to treat more flow.

Project schedule:

Planning: 2017 through 2019	Design: 2020 through 2024	Construction: 2025 through 2026

Financial analysis

2026 cash flow:	$1,500,000
Current ACP:	$3,245,000
2026 through 2031 cash flow:	$1,500,000
Total project cost:	$2,826,000

St. Croix Valley WRRF Upgrades

Program family 807800 **Project #807811**

Project location: Council District #11, City of Oak Park Heights, St. Croix Valley WRRF

St. Croix Valley WRRF

Project type
Facility

Objectives
Asset Preservation

Scope
This project replaces treatment facilities that are near end of service life, including bar screens, primary sludge pumps, disinfection system, chemical feed system, power distribution system and electrical equipment, heating, ventilation, and air conditioning equipment. It also includes the addition of variable frequency drives to three aeration blowers for improved energy efficiency, rehabilitation of site roads, a fall protection system for the odor control vessels, renewal of metals and improved access for the gravity thickener, and new safety gates and dissolved oxygen probes for the aeration basins.

Project need
Rehabilitate treatment and auxiliary systems to increase reliability, safety and efficiency of operation of the St. Croix Valley WRRF and reconstruct roads.

Project schedule:

Planning: 2023	Design: 2024 through 2026	Construction: 2026 through 2029

Financial analysis

2026 cash flow:	$7,000,000
Current ACP:	$22,054,000
2026 through 2031 cash flow:	$21,000,000
Total project cost:	$22,642,000

Seneca WRRF Piping and Site Rehabilitation

Program family 807800 **Project #807864**

Project location: Council District #15, City of Eagan, Seneca WRRF

Aerial View of Seneca WRRF

Project type
Facility

Objectives
Asset Preservation

Scope
The project replaces a section of the return activated sludge (RAS) pipe and rehabilitates the main influent channel into the plant. This project also includes some site drainage improvements.

Project need
A section of The RAS pipe is corroded and needs to be replaced. The main influent channel to the is classified as level 5 (poorest) condition by the interceptor group and must be rehabilitated or replaced to ensure continuity of service.

Project schedule:

Planning: 2021	Design: 2022 through 2024	Construction: 2025 through 2026

Financial analysis

2026 cash flow:	$4,500,000
Current ACP:	$13,649,000
2026 through 2031 cash flow:	$10,000,000
Total project cost:	$11,037,000

Regional WRRFs PLC Renewal

Program family 807800 **Project #807865**

Project location: Regional

Photo taken inside a typical Programmable Logic Controller (PLC)

Project type
Facility

Objectives
Asset Preservation

Scope
Replace out-of-date process control systems at regional Water Resource Recovery Facilities (WRRFs).

Project need
Key elements of the process control system including programmable logic controls (PLCs) and the human machine interface (HMI) system at the regional WRRFs are out of date and need to be replaced to continue reliable process control.

Project schedule:

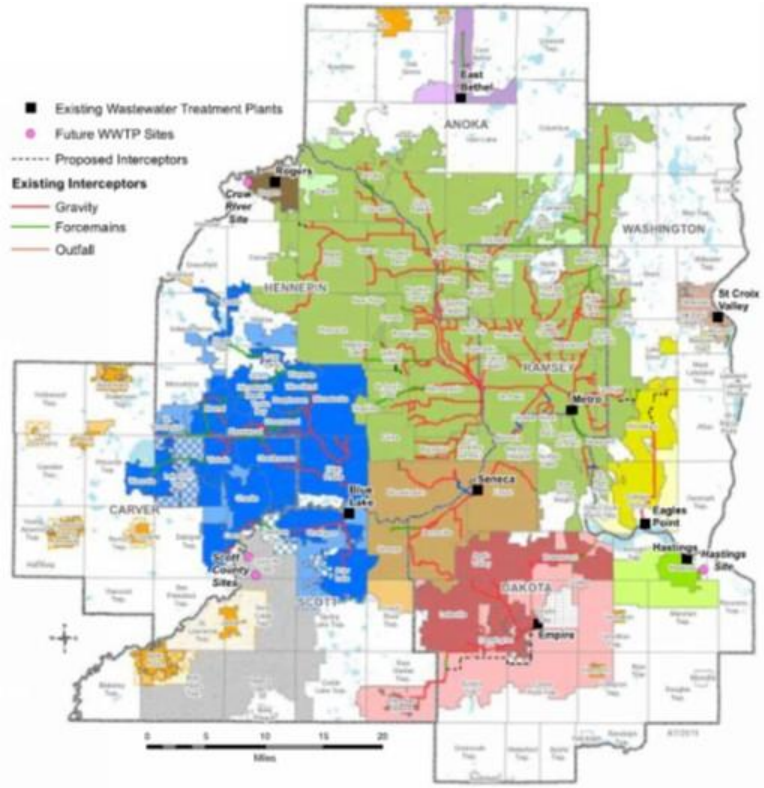
Planning: 2021 through 2022	Design: 2022 through 2027	Construction: 2023 through 2028

Financial analysis

2026 cash flow:	$2,000,000
Current ACP:	$9,500,000
2026 through 2031 cash flow:	$6,500,000
Total project cost:	$12,436,000

Regional WRRFs Planning
Program family 807800 **Project #807899**

Project location: Regional



Map of ES Water Resource Recovery Facilities (WRRFs) and existing and proposed interceptors in the seven-county metropolitan area

Project type
Facility

Objectives
Asset Preservation, Quality Improvements

Scope
This project provides for planning activities at the regional facilities. Design and construction of approved rehabilitations and/or improvements will be budgeted separately. Current planning activities include arc flash studies, road condition assessments, sustainable landscape planning, roof condition assessments, real estate appraisal needs, and various business case evaluations.

Project need
Effective and efficient wastewater treatment requires that condition and operation of facilities be periodically evaluated.

Project schedule:

Planning: 2026 - 2030	Design: N/A	Construction: N/A

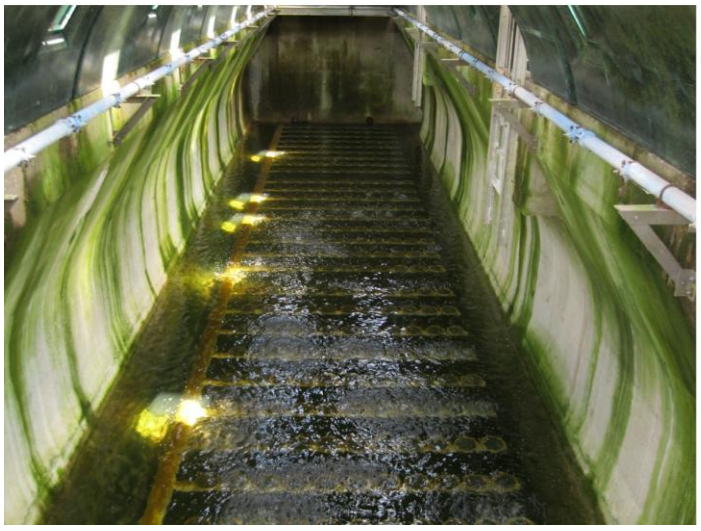
Financial analysis

2026 cash flow:	$250,000
Current ACP:	$2,125,000
2026 through 2031 cash flow:	$1,100,000
Total project cost:	$1,990,000

Hastings WRRF Secondary Treatment Rehabilitation and Process Improvements

Program family 807800 **Project #8078XX**

Project location: Council District #12, Hastings, Hastings WRRF



Aeration Tank (left) and Electrical Motor Control Center (right) in need of rehabilitation

Project type
Facility

Objectives
Asset Preservation

Scope
The project rehabilitates critical liquids treatment and plant-wide systems for continued reliable service. Liquids treatment elements include bar screens, aerated grit system, primary clarifiers, aeration tanks, final clarifiers, chemical disinfection, and outfall. Critical plant-wide systems include electrical distribution, instrumentation and control, emergency overflow system, and flood protection.

Project need
The last major renewal occurred in the 1980s. Rehabilitation of secondary treatment is required to continue reliable service.

Planning: 2024	Design: 2025 through 2026	Construction: 2027 through 2029

Financial analysis

2026 cash flow:	$1,500,000
Current ACP:	$0
2026 through 2031 cash flow:	$12,500,000
Total project cost:	$12,500,000

Program 8089 – Metro WRRF Asset Renewal

Metropolitan Water Resource Recovery Facility (WRRF)

Description

This program provides funding for planning and implementation of projects to continue renewal for liquids processing and plant-wide systems at the Metropolitan Water Resource Recovery Facility (Metro WRRF), which was initiated under Program 8059 Metro Rehabilitation and Facilities Improvements. Planning work is documented in the Metropolitan Wastewater Treatment Plant Asset Renewal Facility Plan (December 2015).

Purpose and justification

Projects in this program address renewal needs for continued, reliable, and sustainable wastewater service at the Metro WRRF through the year 2040.

Program location

The active projects within this program are in the following Council District: 13

Active projects in program

Project Number	Project Title
808915	Metro WRRF Electrical Distribution Renewal Phase 2
808916	Metro WRRF Electrical Distribution Renewal Phase 3
808918	Metro WRRF Flood Control Improvements
808919	Metro WRRF 408 and F&I #2 Building Envelope Rehabilitation
808925	Metro WRRF PLC Renewal
808927	Metro WRRF Steam System Improvements and Turbine Rehabilitation
808928	Metro WRRF Effluent Pump Station Rehabilitation and West Secondary Improvements
808929	Metro WRRF Solids Control Room Improvements
808930	Metro WRRF Secondary Improvements Phase 1

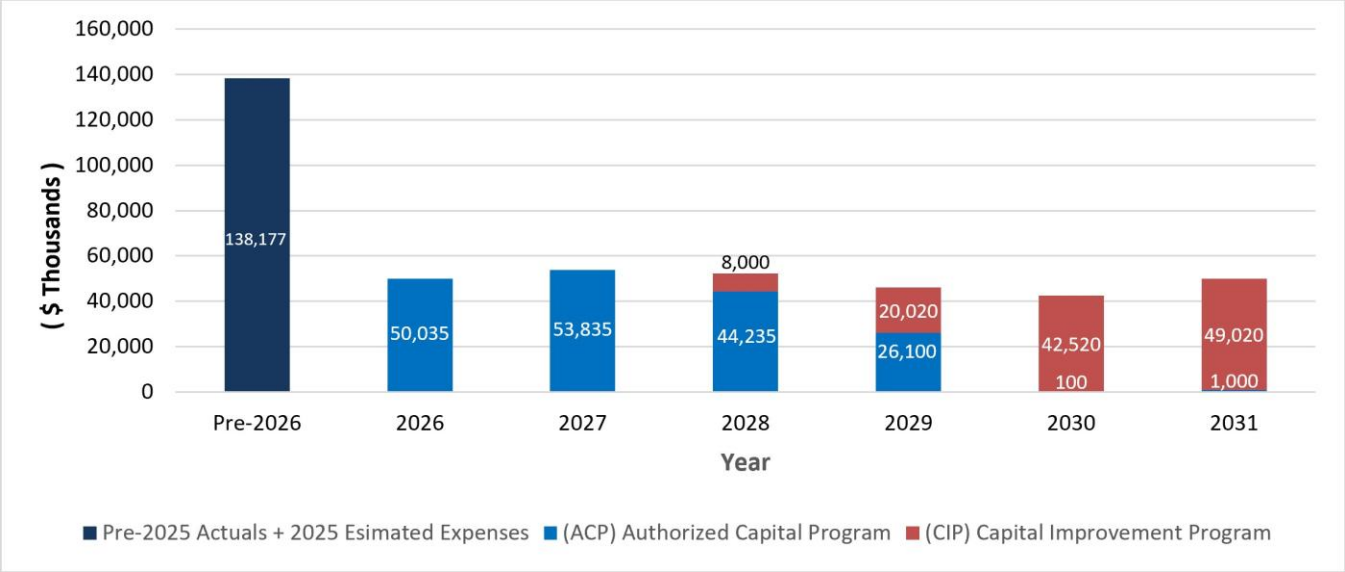
Project Number	Project Title
808933	Metro WRRF Electrical Distribution Renewal Phase 4
808935	Metro WRRF Primary and Secondary Renewal Phase 1
808963	Metro WRRF Water Systems Renewal and Improvements Phase 1: Distribution System Renewal
8089XX	Metro WRRF Primary and Secondary Renewal Phase 2

Environmental Services 2026 through 2031 Capital Program

- Authorized Capital Program (ACP): $313,482,469
- Capital Improvement Plan (CIP): $119,560,000

Estimated program cash flow from 2026 through 2031

Note: the ACP is the total amount of all past and present authorizations including pre-2026 expenses.



Metro WRRF Electrical Distribution Renewal Phase 2

Program family 8089 **Project #808915**

Project location: Council District #13, City of Saint Paul, Metro WRRF

Aeration Compressor

Project type
Facility

Objectives
Asset Preservation

Scope
Maintenance staff will coordinate the rehabilitation of seven compressor motors through specialty contracted services and install temperature and vibration monitoring for the motors.

Project need
The aeration compressors are critical to the continued performance of the aeration process and inspections by Maintenance staff indicate the compressor motors need to be replaced or rehabilitated to extend service life.

Project schedule:

Planning: 2010 through 2015	Design: 2018 through 2020	Construction: 2020 through 2027

Financial analysis

2026 cash flow:	$15,000
Current ACP:	$6,150,000
2026 through 2031 cash flow:	$45,000
Total project cost:	$4,208,000

Metro WRRF Electrical Distribution Renewal Phase 3

Program family 8089 **Project #808916**

Project location: Council District #13, City of Saint Paul, Metro WRRF

New unit substations to be installed

Project type
Facility

Objectives
Asset Preservation, System Expansion, and Quality Improvements

Scope
Replace electrical distribution equipment (unit substations, switchgear, and motor control centers) with new equipment. Upgrade and expand the existing Main Substation Building to provide space for new equipment and to improve worker safety during maintenance.

Project need
Condition assessments determined that electrical equipment in the Main Substation Building and at various buildings throughout the facility are nearing the end of useful service life and need to be replaced.

Project schedule:

Planning: 2010 through 2015	Design: 2018 through 2021	Construction: 2022 through 2026

Financial analysis

2026 cash flow:	$6,000,000
Current ACP:	$59,518,000
2026 through 2031 cash flow:	$6,000,000
Total project cost:	$56,923,000

Metro WRRF Flood Control Improvements

Program family 8089 **Project #808918**

Project location: Council District #13, City of Saint Paul, Metro WRRF

Location of the flood control measure at the Metro WRRF

Project type
Facility

Objectives
Asset Preservation

Scope
Increase the road elevation at the intersection of Pig's Eye Lake Road and 5th Avenue to the existing levee height.

Project need
There is a need to install an additional flood control measure to address a 500-year flood event.

Project schedule:

Planning: 2010 through 2015	Design: 2023 through 2026	Construction: 2027

Financial analysis

2026 cash flow:	$500,000
Current ACP:	$400,000
2026 through 2031 cash flow:	$1,100,000
Total project cost:	$1,100,000

Metro WRRF 408 and F&I #2 Building Envelope Rehabilitation

Program family 8089 **Project #808919**

Project location: Council District #13, City of Saint Paul, Metro WRRF

Left: 408 Building looking west. **Right: F&I #2 building looking east.**

Project type
Facility

Objectives
Asset Preservation

Scope
This project rehabilitates or demolishes portions of the 408 and Filtration & Incineration (F&I) #2 buildings based on condition assessments and a business case evaluation.

Project need
The 408 and F&I #2 buildings are over 45 years old and need to be rehabilitated or demolished.

Project schedule:

Planning: 2010 through 2015	Design: 2022 through 2027	Construction: 2024 through 2028

Financial analysis

2026 cash flow:	$2,500,000
Current ACP:	$4,100,000
2026 through 2031 cash flow:	$5,000,000
Total project cost:	$15,010,000

Metro WRRF PLC Renewal
Program family 8089 **Project #808925**

Project location: Council District #13, City of Saint Paul, Metro WRRF

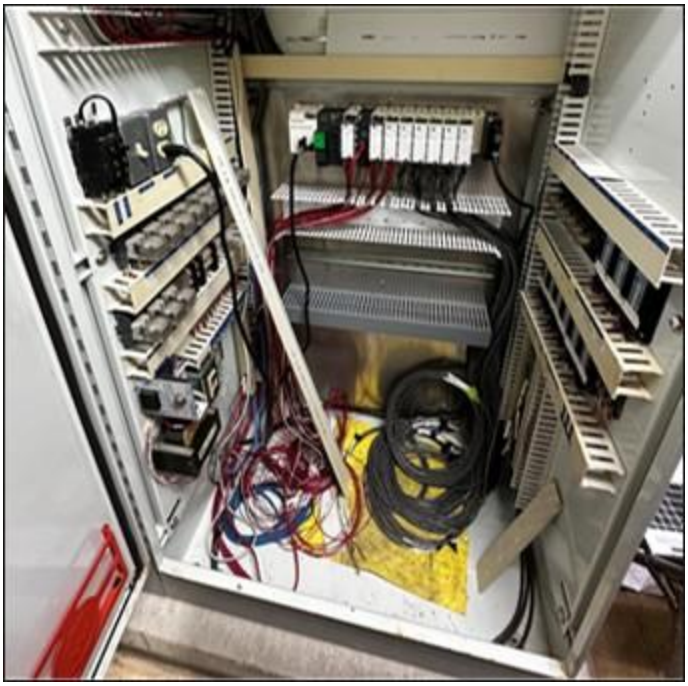


Photo taken inside a typical Programmable Logic Controller (PLC)

Project type
Facility

Objectives
Asset Preservation

Scope
Replace out-of-date process control systems at the Metropolitan Water Resource Recovery Facility (Metro WRRF).

Project need
Key elements in the process control system for the Metro WRRF are out of date and in need of replacement to continue to provide reliable treatment process control at this facility.

Project schedule:

Planning: 2010 through 2015	Design: 2023 through 2027	Construction: 2024 through 2027

Financial analysis

2026 cash flow:	$1,600,000
Current ACP:	$5,500,000
2026 through 2031 cash flow:	$4,800,000
Total project cost:	$9,559,000

Metro WRRF Steam System Improvements and Turbine Rehabilitation

Program family 8089 **Project #808927**

Project location: Council District #13, City of Saint Paul, Metro WRRF

Metro Facility staff performing maintenance on the G7 steam turbine generator

Project type
Facility

Objectives
Asset Preservation

Scope
This project will rehabilitate the existing steam turbine generator and make improvements to boiler feedwater chemistry, instrumentation and controls, moisture mitigation, steam traps, and structural modifications to get an additional 7 to 10 years of service from G7 steam turbine generator.

Project need
Rehabilitation and improvements to the G7 steam turbine generator system is needed since G7 can save the Metro Facility roughly $1,000,000 per year in purchased electricity.

Project schedule:

Design: 2023 through 2025	Construction: 2025 through 2026

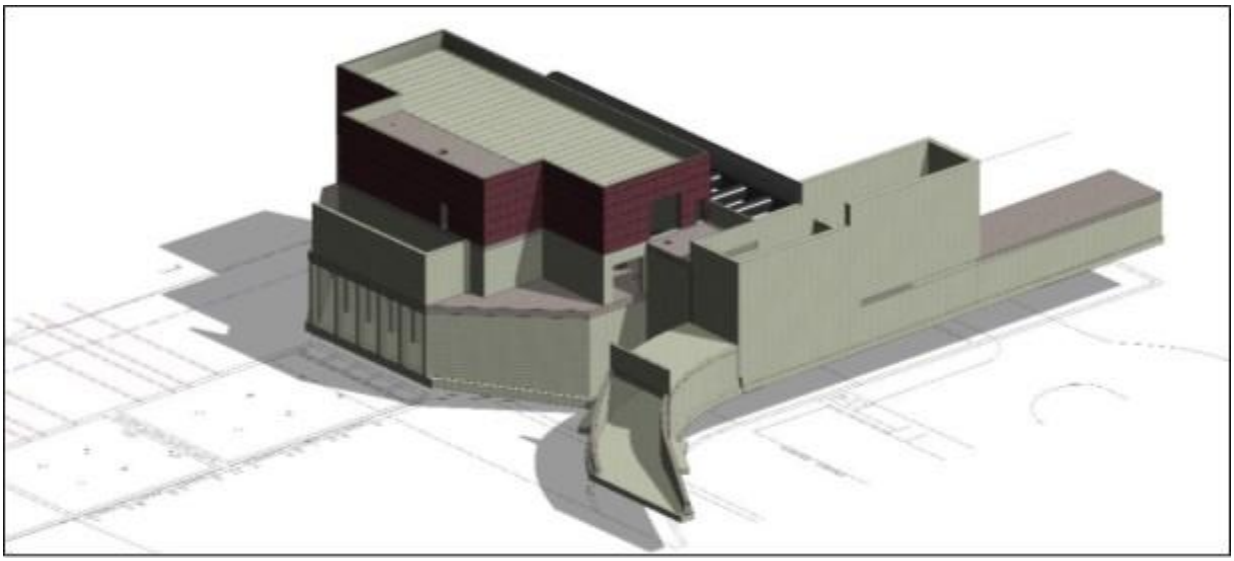
Financial analysis

2026 cash flow:	$4,000,000
Current ACP:	$10,800,000
2026 through 2031 cash flow:	$10,000,000
Total project cost:	$12,423,000

Metro WRRF Effluent Pump Station Rehabilitation and West Secondary Improvements

Program family 8089 **Project #808928**

Project location: Council District #13, City of Saint Paul, Metro WRRF



Effluent Pump Station 3-Dimensional Model

Project type
Facility

Objectives
Asset Preservation

Scope
This project rehabilitates the effluent pump station (EPS), including pump renewal, concrete repairs, pipe repairs, HVAC improvements, rehabilitation of the building envelope, replacement of switchgear, transformers, MCCs, and other electrical equipment. This project includes limited demolition of unused structures and decommissioned processes.

This project provides upgrades for the West Secondary Building (WSE2), including HVAC replacement, rehabilitation of the building envelope, and fiber optic network replacement.

Project need
The EPS has experienced problems with service availability and needs to be renewed to recover system reliability. There is a need to rehabilitate the EPS and WSE2 buildings to preserve infrastructure.

Project schedule:

Planning: 2010 through 2015	Design: 2021 through 2026	Construction: 2026 through 2029

Financial analysis

2026 cash flow:	$7,000,000
Current ACP:	$35,790,000
2026 through 2031 cash flow:	$40,000,000
Total project cost:	$40,331,000

Metro WRRF Solids Control Room Improvements

Program family 8089 **Project #808929**

Project location: Council District #13, City of Saint Paul, Metro WRRF

Existing Metro WRRF Solids Management Building Control Room Built in 2004

Project type
Facility

Objectives
Quality Improvement

Scope
This project replaces the solids management building control room, conference room, and sludge storage operator control area. The project also includes ergonomic improvements to the centrifuge operator control area, ash loadout operator control area, business unit coordinator's office, and other offices in the Solids Management Building.

Project need
The Metro WRRF solids management building control room, conference room, offices, and operator control areas are almost 20 years old and in need of ergonomic, performance monitoring, and work environment improvements.

Project schedule:

Design: 2023 through 2024	Construction: 2025 through 2026

Financial analysis

2026 cash flow:	$1,000,000
Current ACP:	$2,185,000
2026 through 2031 cash flow:	$1,500,000
Total project cost:	$1,981,000

Metro WRRF Secondary Renewal

Program family 8089 **Project #808930**

Project location: Council District #13, City of Saint Paul, Metro WRRF

Left: Demolition of diffusers - Metro Facility's secondary treatment. Right: Installation of diffusers - Metro Facility's secondary treatment.

Project type
Facility

Objectives
Asset Preservation

Scope
This project replaces the aeration tank diffusers, installs aeration control upgrades, rehabilitates underdrains and meter pits, and installs final settling tank backfill gates and air header leak assemblies.

Project need
The aeration system equipment has been in place since the early 2000s and needs to be replaced. The new aeration equipment will result in significant energy savings due to improvements in air transfer efficiency.

Project schedule:

Planning: 2010 through 2015	Design: 2020 through 2021	Construction: 2021 through 2026

Financial analysis

2026 cash flow:	$500,000
Current ACP:	$36,340,000
2026 through 2031 cash flow:	$500,000
Total project cost:	$35,437,000

Metro WRRF Electrical Distribution Renewal Phase 4

Program family 8089 **Project #808933**

Project location: Council District #13, City of Saint Paul, Metro WRRF

Motor control center

Project type
Facility

Objectives
Preservation, System Expansion, and Quality Improvements

Scope
This project replaces electrical distribution equipment (unit substations, switchgear, and motor control centers) with new equipment and installs a generator “common bus” to create a looped distribution system that shares availability of diesel generator power. This project could include installation of new generators and/or the decommission of existing generators.

Project need
Condition assessment determined that electrical equipment in various buildings throughout the facility is near the end of useful service life and needs to be replaced. There are no means to share emergency power between process areas. Each generator is local to the equipment.

Planning: 2010 through 2015	Design: 2026 through 2028	Construction: 2028 through 2030

Financial analysis

2026 cash flow:	$0
Current ACP:	$0
2026 through 2031 cash flow:	$35,000,000
Total project cost:	$45,000,000

Metro WRRF Primary and Secondary Renewal Phase 1

Program family 8089 **Project #808935**

Project location: Council District #13, City of Saint Paul, Metro WRRF

Rendition of EPT addition

Project type
Facility

Objectives
Asset Preservation

Scope
The following improvements are included: East Pretreatment (EPT) Improvements and building expansion, sluice gate replacements, road improvements, East Primary and Compressor building and equipment improvements, concrete repairs, and PLC replacements.

Project need
Primary and Secondary equipment and infrastructure are approaching 40 years old and need replacement. Condition assessment determined that roofs and roads are at or nearing the end of useful service life and need to be replaced.

Project schedule:

Planning: 2010 through 2015	Design: 2021 through 2024	Construction: 2025 through 2029

Financial analysis

2026 cash flow:	$10,000,000
Current ACP:	$46,839,000
2026 through 2031 cash flow:	$37,000,000
Total project cost:	$40,552,000

Metro WRRF Water Systems Renewal and Improvements Phase 1: Distribution System Renewal

Program family 8089 **Project #808963**

Project location: Council District #13, City of Saint Paul, Metro WRRF

Left: Deteriorated service water piping to be renewed/replaced. Center: Aeration tank spray water piping to be repurposed. Right: Abandoned/obsolete process piping to be removed.

Project type
Facility

Objectives
Asset Preservation

Scope
The project replaces the service water piping network throughout the facility with a new piping network in preparation for a future reclaimed water system.

Project need
Rehabilitate and repurpose Metro WRRF water systems and reduce withdrawal of water from the Prairie du Chien Aquifer.

Project schedule:

Planning: 2006 through 2008	Design: 2020 through 2023	Construction: 2023 through 2027

Financial analysis

2026 cash flow:	$11,000,000
Current ACP:	$49,000,000
2026 through 2031 cash flow:	$31,500,000
Total project cost:	$45,507,000

Metro WRRF Primary and Secondary Renewal Phase 2

Program family 8089 **Project #8089xx**

Project location: Council District #13, City of Saint Paul, Metro WRRF

Existing East Pretreatment Biofilter

Project type
Facility

Objectives
Asset Preservation

Scope
The following improvements are planned: odor control improvements at East Pretreatment and Sludge Storage.

Project need
The odor control systems for pretreatment and sludge storage need to be rehabilitated to mitigate odors.

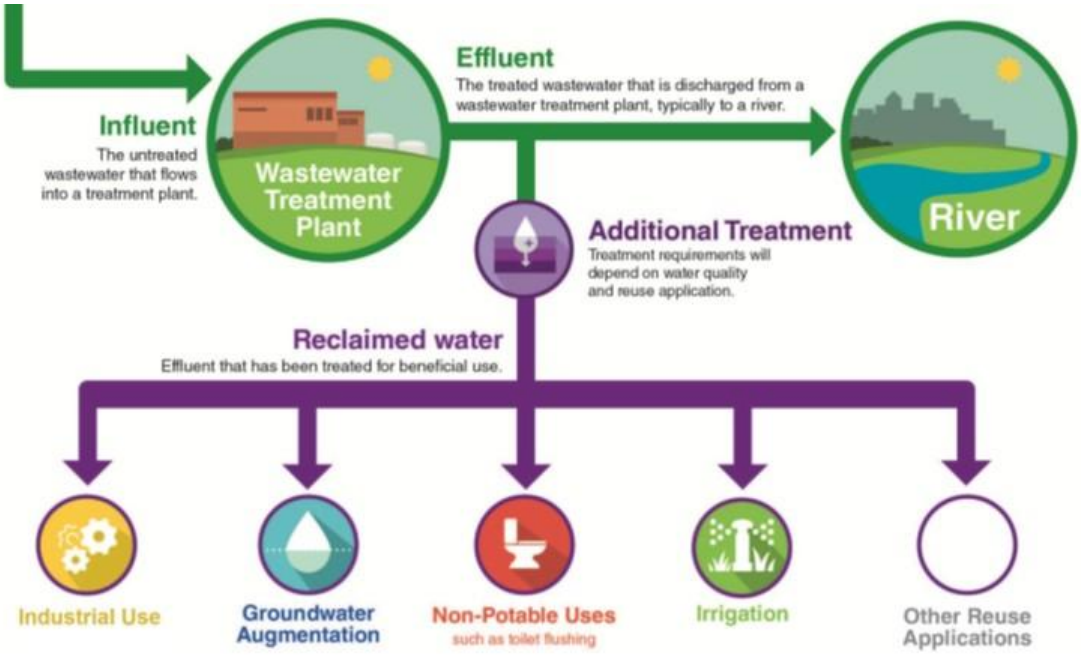
Project schedule:

Planning: 2010 through 2015	Design: 2026-2027	Construction: 2028 through 2030

Financial analysis

2026 cash flow:	$0
Current ACP:	$0
2026 through 2031 cash flow:	$21,000,000
Total project cost:	$21,000,00

Program 8091 – Water Reuse



Wastewater reclamation process infographic

Description

This program provides funding for planning activities needed to support the Council's overall water reuse initiative, which includes treating stormwater and treatment facility effluent for specific reuse applications.

Purpose and justification

The Water Resources Policy Plan directs Environmental Services to pursue water reuse where it is technically feasible, economical and equitable to promote sustainable water resources. Objectives include:

- Conserving and supplementing groundwater and surface water
- Reducing the future issuance of a water appropriation due to concerns about the area's long-term water supply
- Embrace opportunities where regulatory requirements result in effluent quality close to reuse standards

Program location

The active studies and projects within this program are relevant to all Council districts.

Active projects in program

None

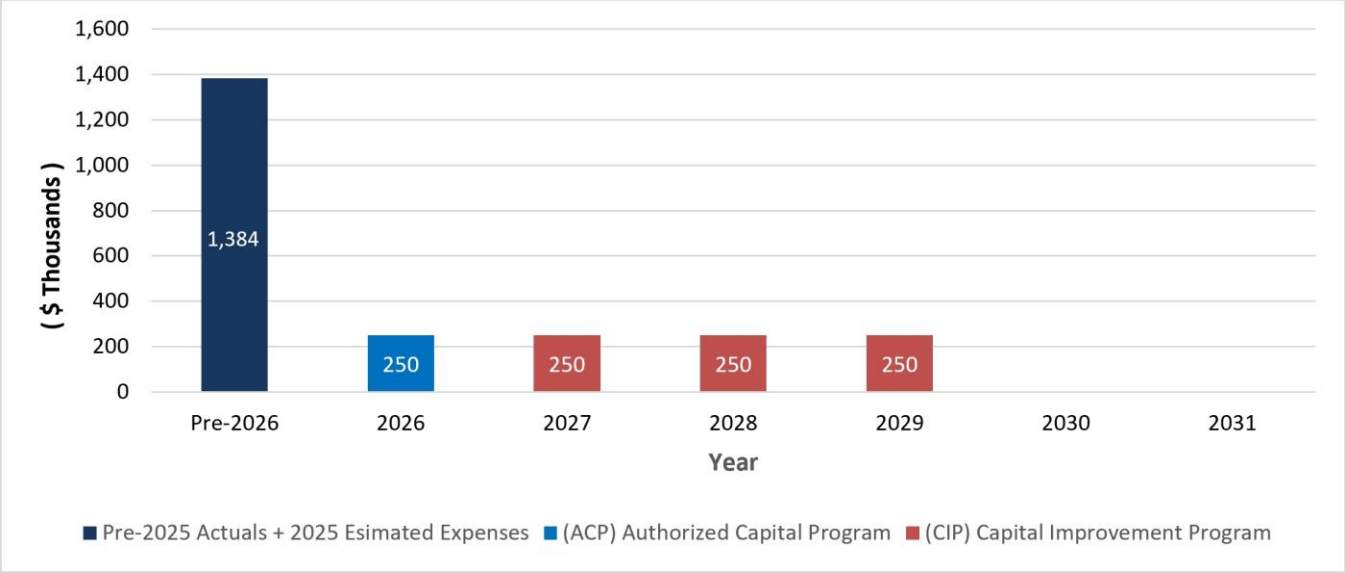
(Continued on next page)

Environmental Services 2026 through 2031 Capital Program

- Authorized Capital Program (ACP): $1,633,873
- Capital Improvement Plan (CIP): $750,000

Estimated program cash flow from 2026 through 2031

Note: the ACP is the total amount of all past and present authorizations including pre-2026 expenses.



Program 8097 – Blue Lake WRRF Improvements

Blue Lake Water Resource Recovery Facility (WRRF)

Description

This program provides funding for planning and implementation of projects to address renewal, capacity, and future permit needs at the Blue Lake Water Resource Recovery Facility (WRRF). Planning work is documented in the Blue Lake WRRF Improvements Facility Plan (February 10, 2021).

Purpose and justification

Projects in this program address renewal, capacity, and quality needs for continued reliable and sustainable wastewater service at the Blue Lake WRRF through the year 2050.

Program location

The active projects within this program are in the following Council district: 4

Active projects in program

Project Number	Project Title
809710	Blue Lake WRRF Dryer Renewal
809720	Blue Lake WRRF Digester 4
8097xx	Blue Lake WRRF Liquids Process Upgrades
8097xx	Blue Lake WRRF Dewatering and Drying

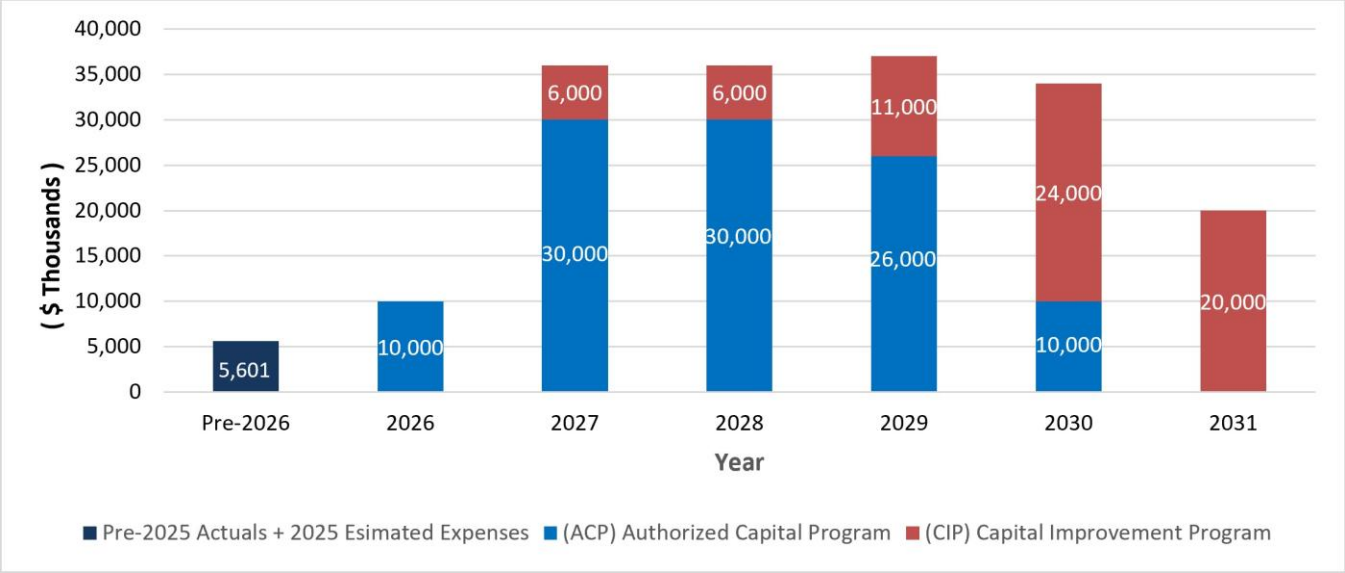
(Continued on next page)

Environmental Services 2026 through 2031 Capital Program

- Authorized Capital Program (ACP): $111,600,884
- Capital Improvement Plan (CIP): $71,000,000

Estimated program cash flow from 2026 through 2031

Note: the ACP is the total amount of all past and present authorizations including pre-2026 expenses.



Blue Lake WRRF Dryer Renewal

Program family 8097 **Project #809710**

Project location: Council District #4, City of Shakopee, Blue Lake WRRF

Delivery of new dryer drum to the Blue Lake Water Resource Recovery Facility (WRRF)

Project type
Plants

Objectives
Asset Preservation

Scope
Replace the dryer drum. Modify the Final Stabilization Facility (FSF) Building structurally and electrically as needed to install the new drum.

Project need
The recent condition assessment of the current drum showed a dramatic loss in wall thickness, and pieces of the drum have been found in the outlet duct, showing that the dryer drum is at its end of life.

Planning: 2020 through 2022	Design: 2023 through 2024	Construction: 2025 through 2026

Financial analysis

2026 cash flow:	$1,000,000
Current ACP:	$1,099,000
2026 through 2031 cash flow:	$1,000,000
Total project cost:	$1,099,000

Blue Lake WRRF Digester 5

Program family 809700 **Project #809720**

Project location: Council District #4, City of Shakopee, Blue Lake WRRF

Blue Lake Water Resource Recovery Facility (WRRF) digester complex

Project type
Facility

Objectives
System Expansion

Scope
There are currently three digesters and a sludge storage tank for regulating gas production. This project will add a fourth digester to increase capacity. This project will also install plant-wide electrical improvements.

Project need
The recommended minimum 15-day solids retention time (SRT) cannot be met at the current flows during digester maintenance or at future flows during normal operation.

Project schedule:

Planning: 2020 through 2022	Design: 2024 through 2026	Construction: 2026 through 2029

Financial analysis

2026 cash flow:	$5,000,000
Current ACP:	$25,122,000
2026 through 2031 cash flow:	$28,000,000
Total project cost:	$33,000,000

Blue Lake WRRF Liquids Process Upgrades

Program family 809700 **Project #8097xx**

Project location: Council District #4, City of Shakopee, Blue Lake WRRF

Blue Lake Water Resource Recovery Facility (WRRF) liquid treatment

Project type
Facility

Objectives
System Expansion, Quality Improvements

Scope
The project includes aeration basin improvements for improved Dissolved Oxygen (DO) control and air distribution. The secondary clarification process will also be expanded with two new tanks and improved baffling for flow distribution.

Project need
The aeration system is near the end of its service life, and the plant is having difficulty maintaining DO while reducing energy in the system. The secondary clarifiers have reached design capacity, and more tanks are needed to accommodate growth in the region.

Project schedule:

Planning: 2020 through 2022	Design: 2024 through 2026	Construction: 2027 through 2030

Financial analysis

2026 cash flow:	$1,000,000
Current ACP:	$0
2026 through 2031 cash flow:	$56,000,000
Total project cost:	$57,000,000

Blue Lake WRRF Dewatering and Drying

Program family 809700 **Project #8097xx**

Project location: Council District #4, City of Shakopee, Blue Lake WRRF

Blue Lake Water Resource Recovery Facility (WRRF) solids treatment area

Project type
Facility

Objectives
System Expansion

Scope
A second building with a second dryer train and dewatering equipment will be added to provide capacity for regional growth.

Project need
A second dryer will be needed in 2032 and will meet capacity needs through the year 2050.

Project schedule:

Planning: 2020 through 2022	Design: 2027 through 2028	Construction: 2029 through 2032

Financial analysis

2026 cash flow:	$0
Current ACP:	$0
2026 through 2031 cash flow:	$45,000,000
Total project cost:	$60,000,000

Program 8099 – Crow River WRRF

Map showing location of future Crow River Water Resource Recovery Facility (WRRF) in Rogers

Description

This program provides funding for planning and implementation of a new Crow River WRRF located at 25940 141st Avenue North, Rogers, MN 55374 to replace the Rogers Wastewater Treatment Facility (WWTF). After commissioning the Crow River WRRF, the Rogers WWRF will be decommissioned, and the Rogers WWRF site will be returned to the City of Rogers. Planning work is documented in the Crow River WRRF Facility Plan (March 5, 2025).

Purpose and justification

The Crow River WRRF is needed to accommodate regional growth and free up capacity in the Elm Creek interceptor for urban core growth. The new site can accommodate expansion of the Crow River WRRF to serve 2050's projected growth in the communities of Rogers and portions of Dayton, Corcoran, and the surrounding area. A future project under a separate program will divert flow from the Elm Creek interceptor to this facility.

Program location

The active projects within this program are in the following Council districts: 1

Active projects in program

Project Number	Project Title
8099XX	TBD

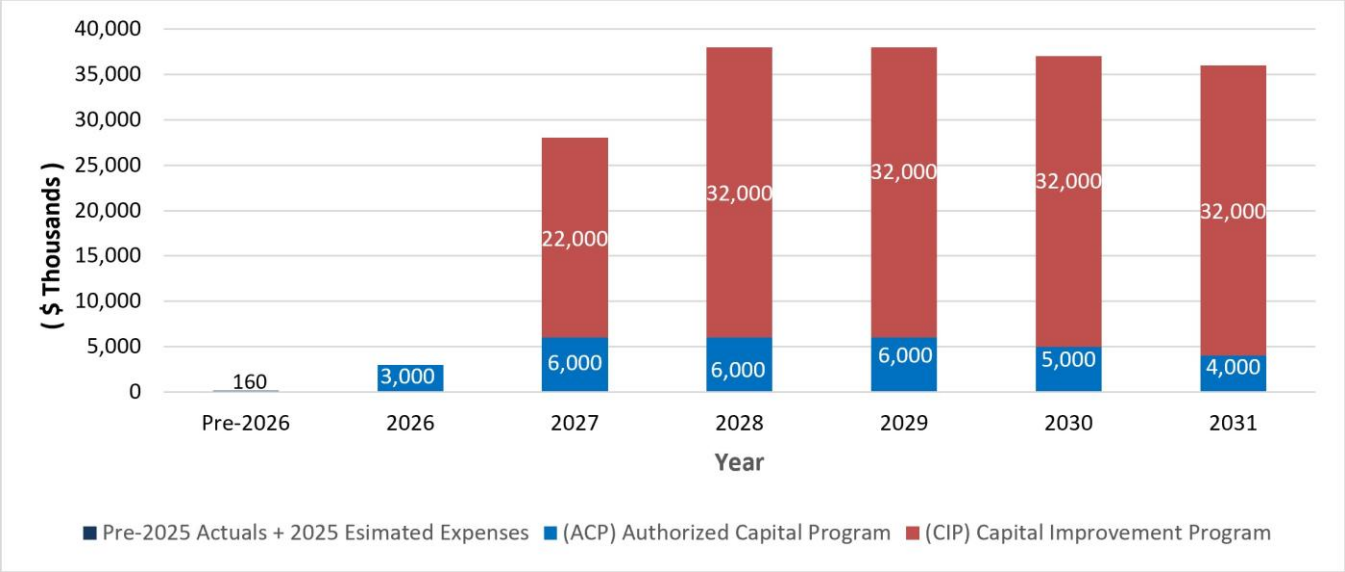
(Continued on next page)

Environmental Services 2026 through 2031 Capital Program

- Authorized Capital Program (ACP): $30,160,000
- Capital Improvement Plan (CIP): $150,000,000

Estimated program cash flow from 2026 through 2031

Note: the ACP is the total amount of all past and present authorizations including pre-2026 expenses.



Program 8103 – Metro WRRF Restoration & Improvements

Metropolitan Water Resource Recovery Facility (WRRF)

Description

This program provides funding for planning and implementation of projects to address renewal and future permit needs at the Metropolitan Water Resource Recovery Facility (Metro WRRF). The renewal work continues the previous program 8089 Metro WRRF Asset Renewal and includes renewal of Fluidized Bed Reactors (FBRs) 1-3, which has been moved from program 8602 Metro WRRF Solids Improvements to apply for PFA funding approval under this program 8103.

Purpose and justification

Planning work is based on condition assessments of liquids processing, solids processing and system-wide facilities, and anticipated future permit requirements.

Program location

The active projects within this program are in the following Council Districts: 13

Active projects in program

Project Number	Project Title
8103XX	Fluidized Bed Reactors (FBRs) 1-3 Renewal

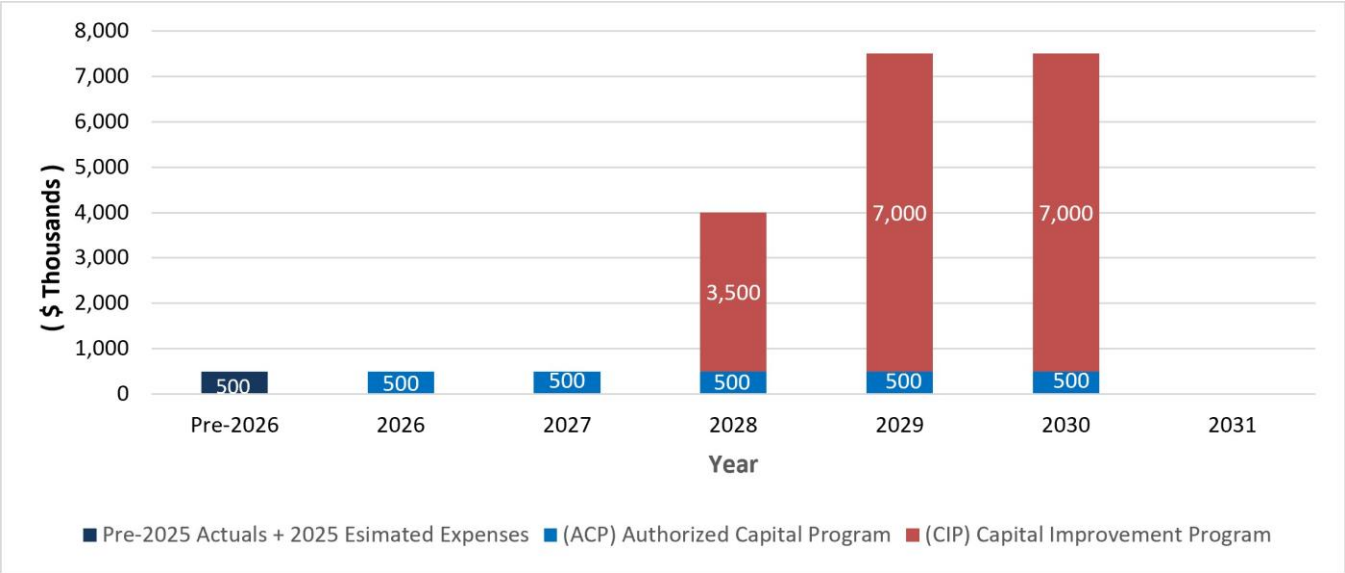
(Continued on next page)

Environmental Services 2026 through 2031 Capital Program

- Authorized Capital Program (ACP): $3,000,000
- Capital Improvement Plan (CIP): $17,500,000

Estimated program cash flow from 2026 through 2031

Note: the ACP is the total amount of all past and present authorizations including pre-2026 expenses.



FBRs 1-3 Renewal

Program 8103 **Project #8103XX**

Project location: Council District #13, City of Saint Paul, Metro WRRF

Gravity Thickening Metal Repair

Cake Bin Material Improvements

Incinerator Refractory Rehabilitation

Project type
Facility

Objectives
Asset Preservation

Scope
This project will renew solids processing systems at the Metropolitan Water Resource Recovery Facility (WRRF), including thickening, sludge storage, dewatering, incineration, and support systems.

Project need
Solids processing systems associated with FBRs 1-3 are over 20 years old and some components are near end of useful life. Renewal is needed to extend service life and increase service availability.

Planning: 2025 through 2026	Design: 2027 through 2028	Construction: 2029 through 2031

Financial analysis

2026 cash flow:	$0
Current ACP:	$0
2026 through 2031 cash flow:	$17,500,000
Total project cost:	$21,000,000

Program 8104 – Empire WRRF Improvements

Empire Water Resource Recovery Facility (WRRF)

Description

This program provides funding for planning and implementation of projects to address renewal and future permit needs at the Empire Water Resource Recovery Facility (WRRF).

Purpose and justification

Planning work is based on condition assessments of liquids processing, solids processing and system-wide facilities, and anticipated future permit requirements.

Program location

The active projects within this program are in the following Council Districts: 16

Active projects in program

Project Number	Project Title
8104XX	TBD

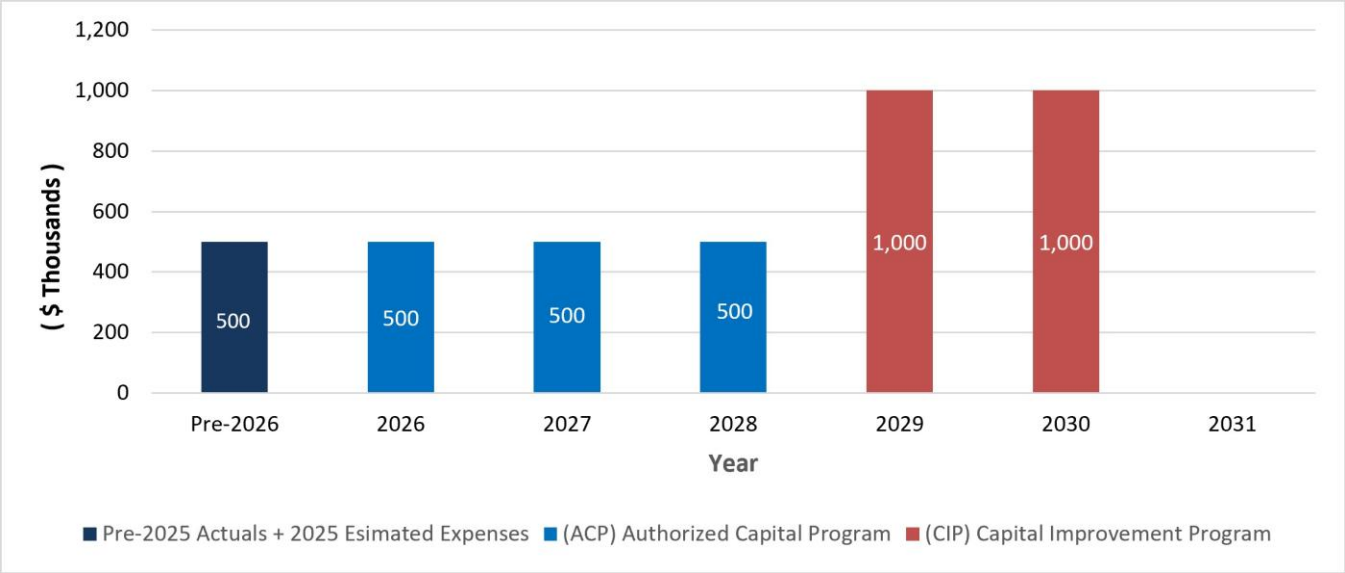
(Continued on next page)

Environmental Services 2026 through 2031 Capital Program

- Authorized Capital Program (ACP): $2,000,000
- Capital Improvement Plan (CIP): $2,000,000

Estimated program cash flow from 2026 through 2031

Note: the ACP is the total amount of all past and present authorizations including pre-2026 expenses.



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Program 8028 – West Area Interceptor Improvements

Contractor installation of 8253-327 Forcemain

Description

This project provides improvements to meet the long-term conveyance capacity, reliability, and rehabilitation/replacement needs of the West Area Interceptor System. This system includes gravity sewers, 29 lift stations, and forcemains from each lift station. The major project areas are located in Victoria, Excelsior, Orono, and Deephaven.

Purpose and justification

Evaluation of the West Area Interceptor System indicates that the existing facilities cannot convey all the wastewater that will ultimately be generated from within the Blue Lake WRRF treatment shed due to growth. In addition, many of the sewers, lift stations, and associated forcemains need to be rehabilitated or improved to ensure system reliability and to address odor and corrosion control.

Program location

The active projects within this program are in the following Council districts: 1, 3, and 4

New program additions

Category	Details
Scope	Rehabilitation of 1,400 feet of 8 to 36-inch interceptor pipe
Assets	6-MT-647, 7018-2, 6-TB-661, 7020
Communities	Minnetrista, Minnetonka, Shorewood, Excelsior
Added budget	$1,025,000
Construction years	2026 through 2031

(Continued on next page)

Active projects in program

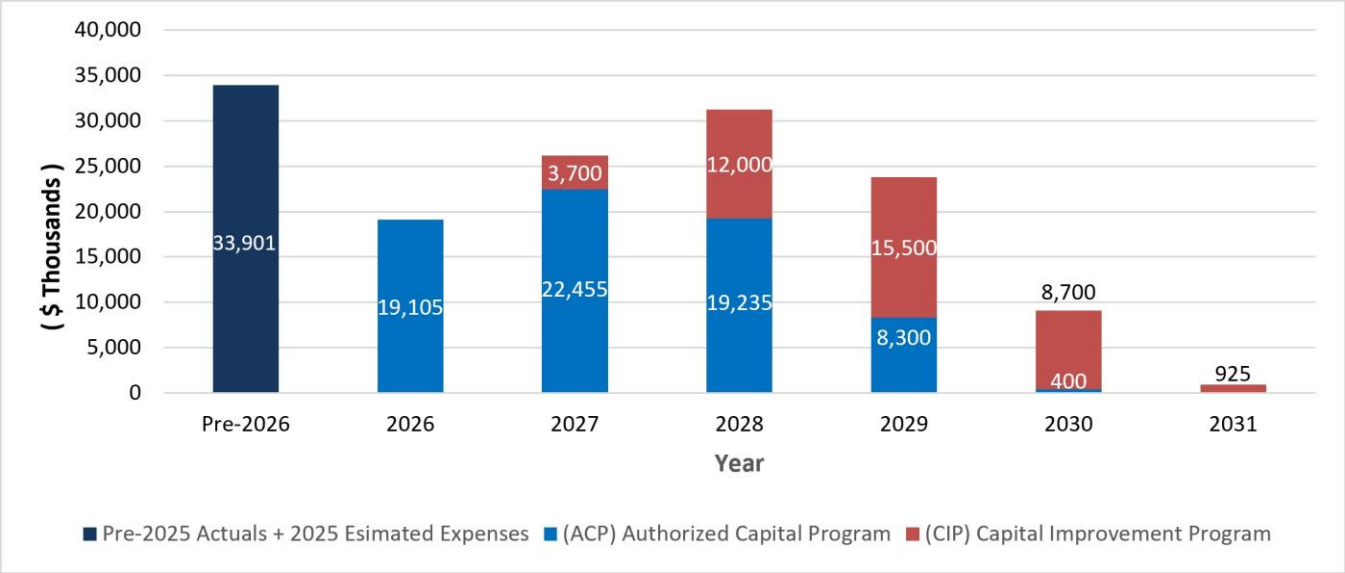
Project Number	Project Title
802800	West Area Interceptor Improvements (Parent Project)
802803	8352 Forcemain Improvements
802806	Interceptor 8253-327 Forcemain Improvements
802809	Shakopee Interceptors 9206-1 and 7120 Rehabilitation
802819	Long Lake 8352A Capacity Improvements
802831	Orono Lift Stations L46 and L49 Improvements
802835	L48 Rehabilitation and 6-DH-645 Forcemain Replacement
802836	Victoria Interceptor 7019-B Improvements
802837	Orono Interceptor 7113 Forcemain Replacement
802856	Excelsior Area Lift Station L20
802863	Orono 8567 Channel Crossings Replacement
802898	Lake Minnetonka Interceptor System Technical Support

Environmental Services 2026 through 2031 Capital Program

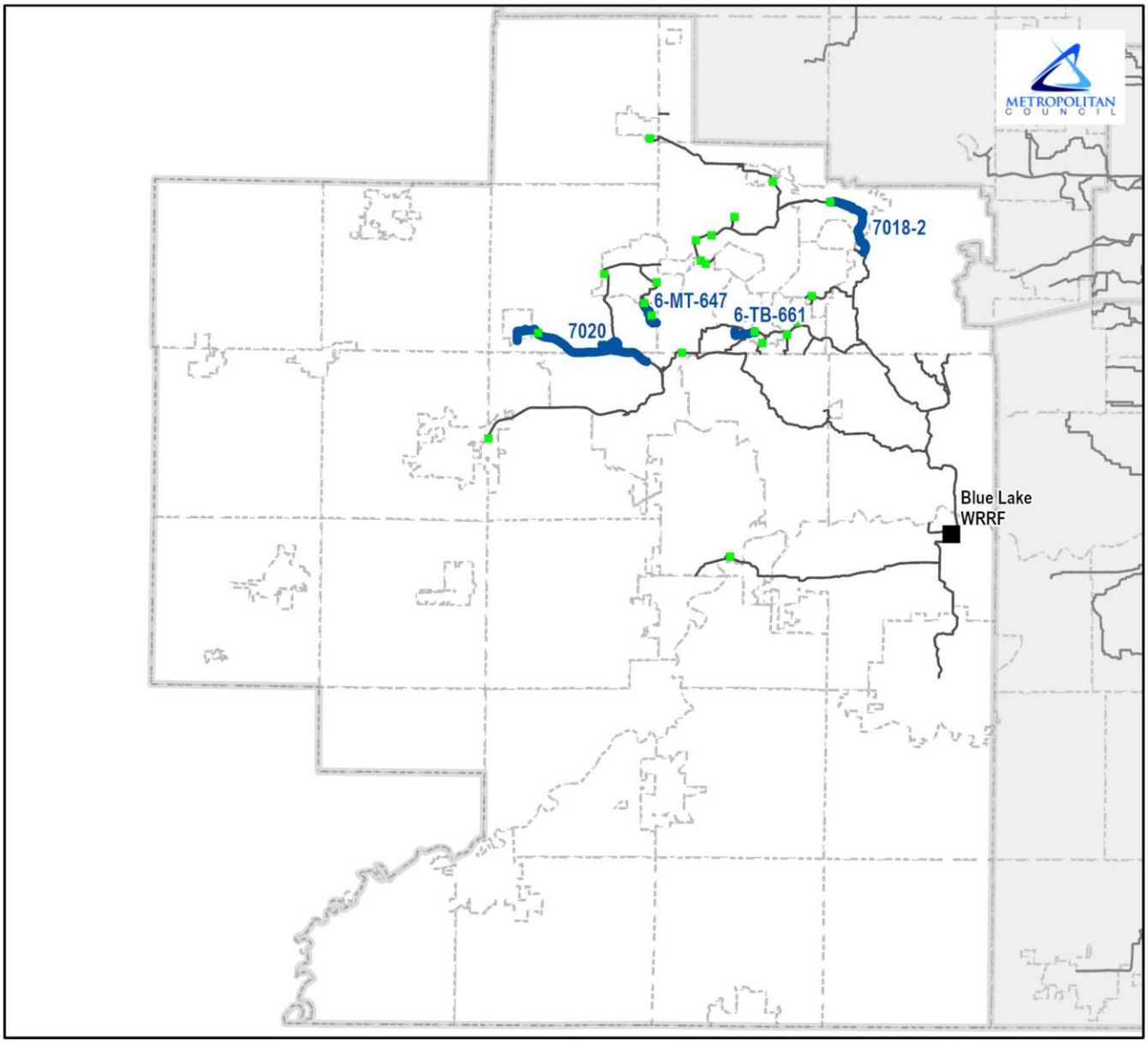
- Authorized Capital Program (ACP): $103,396,026
- Capital Improvement Plan (CIP): $144,221,026

Estimated program cash flow from 2026 through 2031

Note: the ACP is the total amount of all past and present authorizations including pre-2026 expenses.



West Area Program Map – New Projects



West Service Area Capital Improvement Projects (CIP)

MCES Wastewater Treatment System

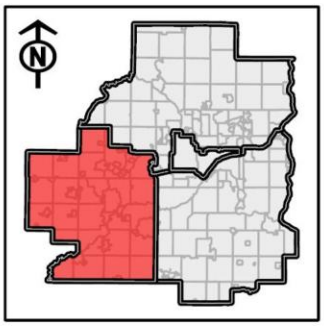
- Lift Stations
- Water Resource Recovery Facilities (WRRF)

- Interceptors
- Interceptors with CIP

Boundaries

- Community
- Service Area

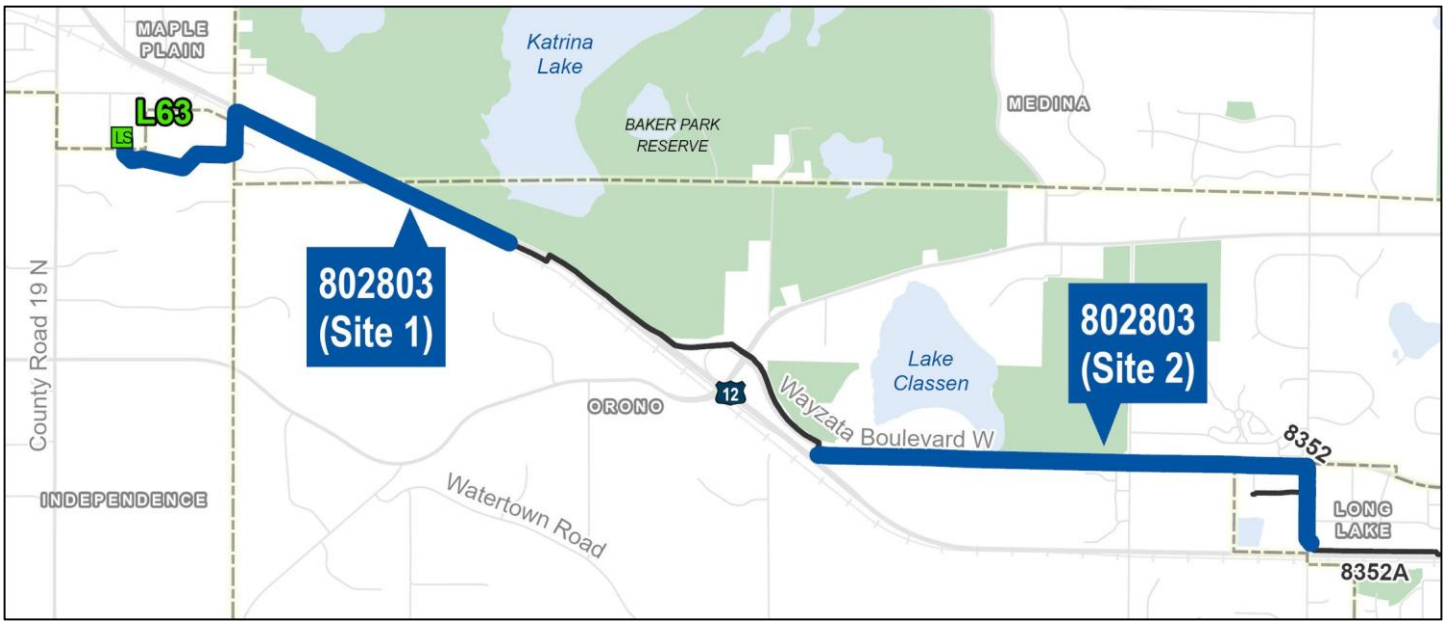
0 2.5 5 7.5 10 Miles



8352 Forcemain Improvements

Program family 8028 **Project #802803**

Project location: Council districts #1 and #3, Cities of Maple Plain, Independence, Medina, Orono & Long Lake



Map of Project #802803 Site 1 and 2 locations in north Orono and southwest Medina

Project type
Interceptor Improvements

Objectives
Asset Preservation

Scope
Project includes rehabilitation and/or replacement of approximately 4.1 miles of forcemain due to deterioration of pipe walls along with installation of redundant forcemain to provide system reliability.

Project need
Forcemain 8352 was constructed in 1985 as a single-barrel, 12-inch ductile iron pipe which runs approximately 5.1 miles from L63 in the City of Maple Plain to the discharge MH-172 in Long Lake. A one-mile segment of the forcemain at the intersection of Minnesota Highway 12 and County Road 6 was replaced in 2011 with dual barrel 14-inch HDPE pipes. Forcemain 8352 was evaluated using ultrasonic testing in 2021 and determined to have wall thickness loss. This reduction in wall thickness will require rehabilitation to extend forcemain service life. Reliability and future flow needs will be evaluated as part of this project.

Project schedule:

Planning: 2022 through 2025	Design: 2025 through 2027	Construction: 2028 through 2030

Financial analysis

2026 cash flow:	$250,000
Current ACP:	$3,097,500
2026 through 2031 cash flow:	$20,900,000
Total project cost:	$21,000,000

Interceptor 8253-327 Forcemain Improvements

Program family 8028 **Project #802806**

Project location: Council district #3, Cities of Shorewood and Chanhassen

Map of Project #802806 location north of Lake Minnewashta

Project type
Interceptor Improvements

Objectives
Asset Preservation and Quality Improvements

Scope
Increase system reliability and operational flexibility by installing a second redundant forcemain and rehabilitating the existing forcemain.

Project need
Forcemain 8253-327 was built in 1988 and runs from L21 in the City of Shorewood to the discharge approximately 3 miles to the east. An external ultrasonic thickness gauge survey conducted in 2021 found locations of pipe loss. Additional planning will be conducted to recommend reliability improvements.

Project schedule:

Planning: 2024 through 2025	Design: 2026 through 2027	Construction: 2027 through 2029

Financial analysis

2026 cash flow:	$400,000
Current ACP:	$750,000
2026 through 2031 cash flow:	$24,800,000
Total project cost:	$25,000,000

Shakopee Interceptors 9206-1 and 7120 Rehabilitation

Program family 8028 **Project #802809**

Project location: Council district #4, City of Shakopee

Map of project #802809 location near Quarry Lake Park in Shakopee

Project type
Interceptor Rehabilitation

Objectives
Asset Preservation

Scope
Provide cured-in-place pipe (CIPP) lining to over 3,500 linear feet of 72-inch Interceptor 7120 and 31 linear feet to 72-inch Interceptor 9206-1. The work also includes rehabilitating maintenance structures and a junction box along the interceptor.

Project need
A 2020 condition assessment revealed that Interceptor 7120 had a condition rating of 4 and Interceptor 9206-1 had a condition rating of 5.

Project schedule:

Planning: 2024	Design: 2024 through 2026	Construction: 2027

Financial analysis

2026 cash flow:	$4,600,000
Current ACP:	$1,050,000
2026 through 2031 cash flow:	$5,950,000
Total project cost:	$5,950,000

Long Lake 8352A Capacity Improvements

Program family 8028 **Project #802819**

Project location: Council district #3, City of Long Lake

Map of project #802819 location running parallel to MnDOT Highway 12 in Long Lake.

Project type
Interceptor Improvements

Objectives
System Expansion

Scope
Construction of new gravity pipe to provide future capacity and reliability of the system

Project need
The project will evaluate capacity and rehabilitation/replacement alternatives of approximately 7,000 linear feet of 12-, 18-, and 24-inch ductuile iron gravity pipe between MH 171 and the L60 Lift Station.

Planning: 2027 through 2028	Design: 2028 through 2029	Construction: 2030 through 2031

Financial analysis

2026 cash flow:	$450,000
Current ACP:	$2,940,000
2026 through 2031 cash flow:	$11,950,000
Total project cost:	$12,100,000

Orono Lift Stations L46 and L49 Improvements

Program family 8028 **Project #802831**

Project location: Council District #3, City of Orono

Map of Project #802831 location along Shadywood Road in Orono

Project type
Lift Station Improvements

Objectives
Asset Preservation and Quality Improvements

Scope
Replace L49 at neighboring property and fully rehabilitate L46 through replacement of pumps, mechanical equipment, and site improvements for safety.

Project need
A 2009 study evaluating L46 and L49 revealed L49 is at the end of its useful life and has inadequate capacity to meet current peak flow rates. Its current location is also difficult to access for maintenance. Land has been purchased adjacent to the existing lift station to provide easier access. L46 requires pump and valve replacement, electrical panel upgrades, and site improvements to protect existing equipment from traffic.

Project schedule:

Planning: 2019 through 2020	Design: 2020 through 2023	Construction: 2024 through 2026

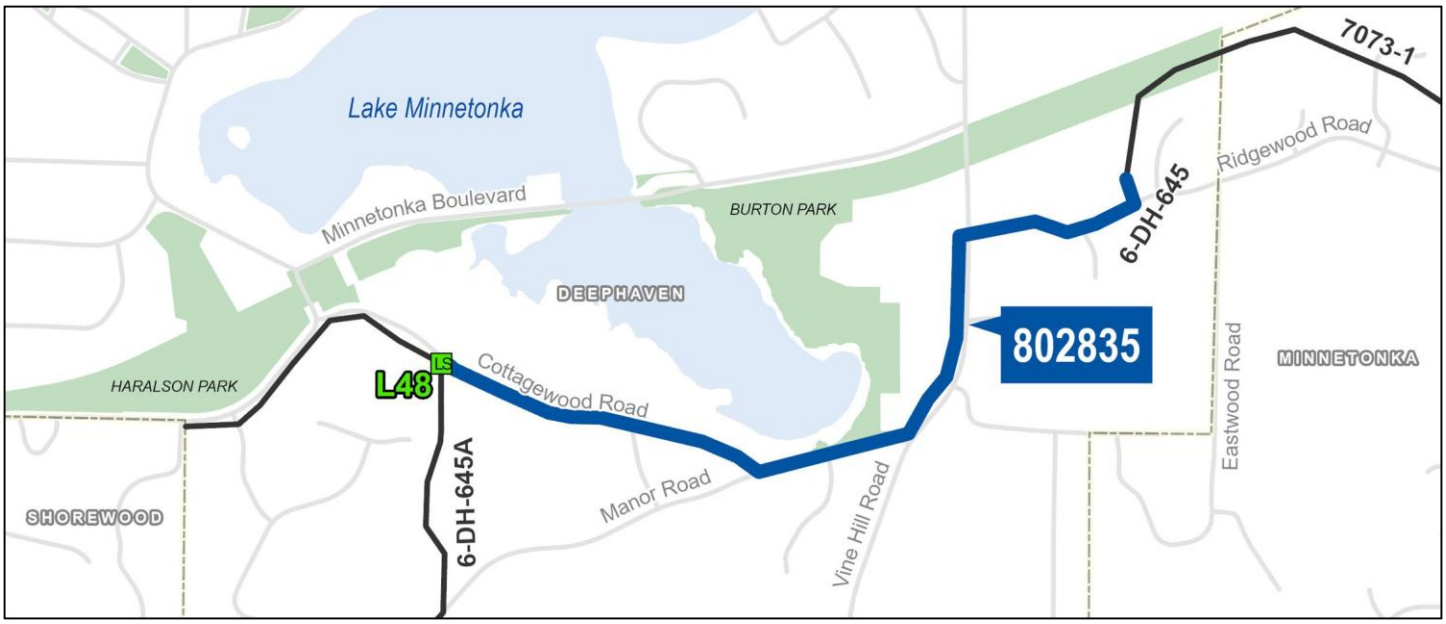
Financial analysis

2026 cash flow:	$1,800,000
Current ACP:	$6,836,000
2026 through 2031 cash flow:	$1,850,000
Total project cost:	$6,500,000

L48 Rehabilitation and 6-DH-645 Forcemain Replacement

Program family 8028 **Project #802835**

Project location: Council district #3, City of Deephaven



Map of Project #802835 location in the Burton Park area in Deephaven

Project type
Lift Station and Interceptor Improvements

Objectives
Asset Preservation

Scope
The rehabilitation of L48 will include a new valve vault, pumps and valves, electrical and site work, forcemain replacement, and replacement of the gravity discharge pipe.

Project need
The 16-feet-deep buried valves are broken outside of the station. A buried temporary conveyance system was installed to convey around the broken valves. The forcemain was built in 1970, is over 50 years old, and is reaching the end of its service life.

Project schedule:

Planning: N/A	Design: 2021 through 2022	Construction: 2023 through 2026

Financial analysis

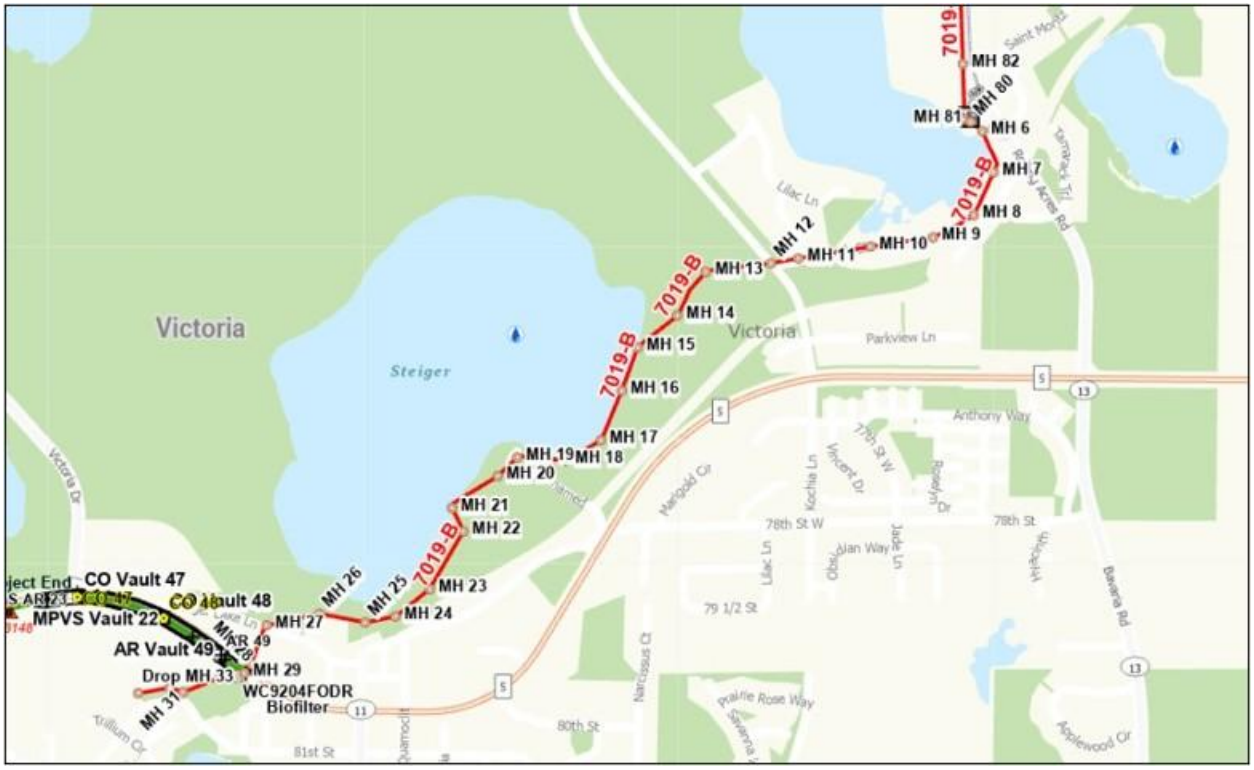
2026 cash flow:	$1,500,000
Current ACP:	$7,367,000
2026 through 2031 cash flow:	$1,500,000
Total project cost:	$8,558,000

Victoria Interceptor 7019-B Improvements

Project #802836

Program family 8028

Project location: Council district #4, City of Victoria



Map of Project #802836 location in the Carver Park Preserve in Victoria

Project type
Interceptor Improvements

Objectives
System Expansion

Scope
Installation of a parallel pipe or removing and replacing the existing pipe with a larger pipe. It is possible that the Council may construct a hybrid project consisting of both parallel and replacement pipe along the alignment. This project is currently in the planning phase.

Project need
The existing 30- and 36-inch pipe does not meet wet weather flow projections for 2050.

Project schedule:

Planning: 2026	Design: 2027 through 2028	Construction: 2028 through 2029

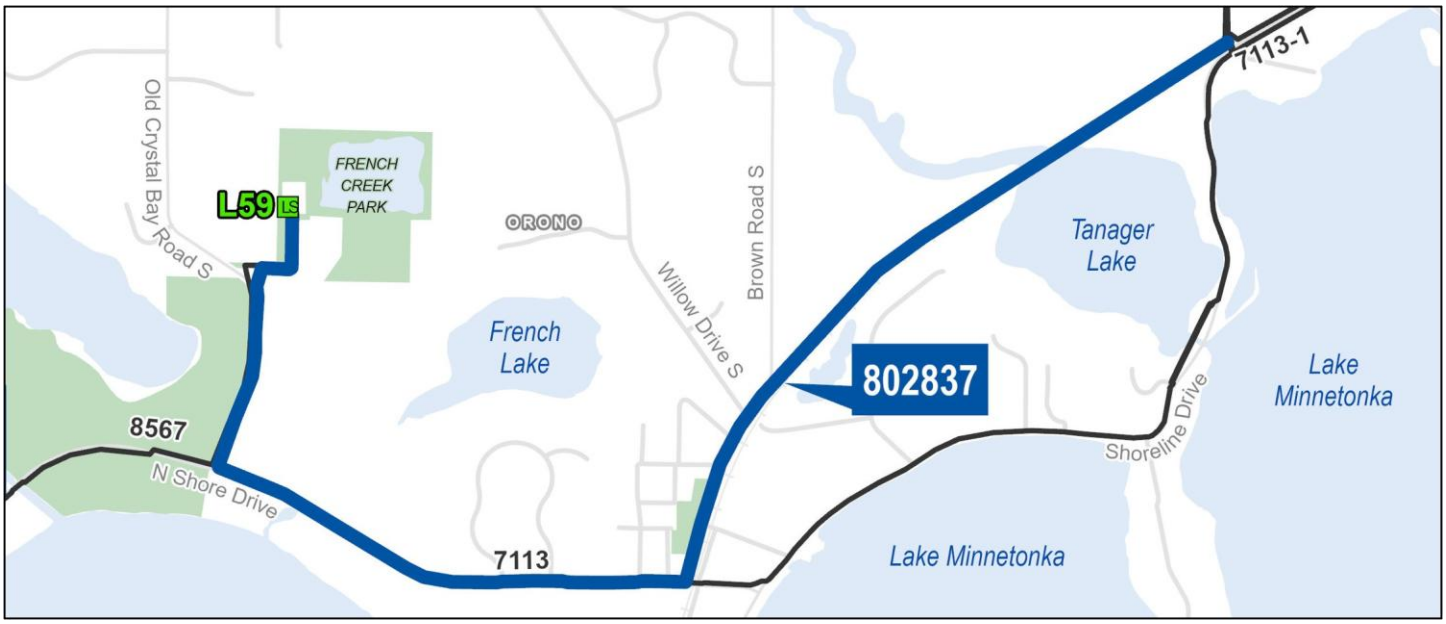
Financial analysis

2026 cash flow:	$250,000
Current ACP:	$1,400,000
2026 through 2031 cash flow:	$8,950,000
Total project cost:	$9,025,000

Orono Interceptor 7113 Forcemain Replacement

Program family 8028 **Project #802837**

Project location: Council district #3, City of Orono



Map of Project #802837 location along the north side of Lake Minnetonka in Orono

Project type
Interceptor Improvements

Objectives
Asset Preservation and Quality Improvements

Scope
Construction of a redundant forcemain along existing forcemain 7113 and the Hennepin County Regional Rail Authority (HCRAA) trail corridor and rehabilitation of the existing forcemain.

Project need
Forcemain 7113 was built in 1979 and runs from L59 in the City of Orono to the junction with forcemain 7113A approximately three miles to the east. Forcemain 7113 is approaching the end of its service life and needs replacement or rehabilitation. A new redundant forcemain is proposed to increase reliability and allow the existing forcemain in Shoreline Drive to be inspected and rehabilitated or replaced.

Project schedule:

Planning: 2019 through 2022	Design: 2022 through 2025	Construction: 2026 through 2029

Financial analysis

2026 cash flow:	$6,500,000
Current ACP:	$39,180,000
2026 through 2031 cash flow:	$28,970,000
Total project cost:	$28,970,000

Excelsior Area Lift Station L20

Program family 8028 **Project #802856**

Project location: Council district #3, City of Excelsior

Map of Project #802856 in Excelsior showing new and rehabilitated gravity sewer and forcemain abandonment

Project type
Interceptor Improvements

Objectives
Asset Preservation and Quality Improvements

Scope
Remove existing lift station L20 and install a gravity pipe to lift station L19.

Project need
The existing L20 was constructed in 1970 and is at the end of its service life. The 2021 Lake Minnetonka Facility Plan determined that L20 should be abandoned and replaced with a gravity pipe connection to L19. In addition, obsolete air relief structures along the existing 7017 forcemain will be rehabilitated.

Project schedule:

Planning: 2008 through 2019	Design: 2019 through 2022	Construction: 2023 through 2026

Financial analysis

2026 cash flow:	$250,000
Current ACP:	$14,300,000
2026 through 2031 cash flow:	$250,000
Total project cost:	$13,037,000

Orono 8567 Channel Crossings Replacement

Program family 8028 **Project #802863**

Project location: Council district #3, City of Orono

Map of Project #802863 location at the Hendrickson and Noerenberg Bridges in Orono

Project type
Interceptor Improvements

Objectives
Asset Preservation and Quality Improvements

Scope
To minimize future risk, a redundant parallel HDPE pipe is proposed at each channel crossing. Directional drilling will be used to complete the redundant pipe along with new connection structures.

Project need
In 2022, Hennepin County replaced the Noerenberg and Hendrickson bridges on North Shore Drive. The original Interceptor Forcemain 8567 was suspended on the bridges. A new pipe was relocated under the Lake Minnetonka channels to coordinate with the County's work. This project will finish the relocation by installing a parallel crossing on each channel and four new structures.

Project schedule:

Planning: 2020	Design: 2021	Construction: 2022 through 2027

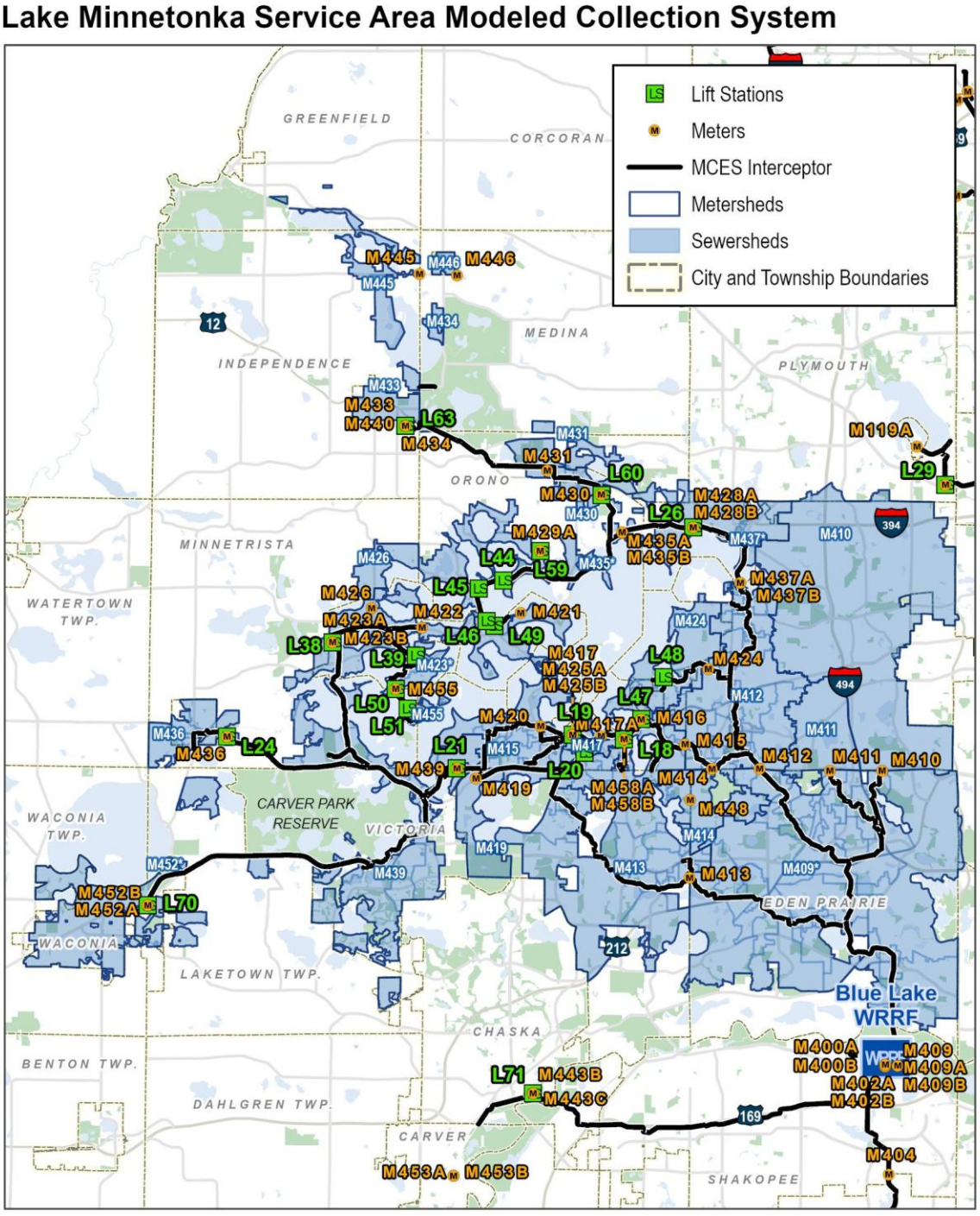
Financial analysis

2026 cash flow:	$250,000
Current ACP:	$5,946,310
2026 through 2031 cash flow:	$250,000
Total project cost:	$13,037,000

Lake Minnetonka Interceptor System Technical Support

Program family 8028 **Project #802898**

Project location: Council districts #1, 3, and 4 in the vicinity of the Lake Minnetonka Interceptor Area



Map of Project #802898 Lake Minnetonka Interceptor study area

Project type
Interceptor Hydraulic Model - Study

Objectives
Asset Preservation

Scope
This project is to build and calibrate a hydraulic model of the Lake Minnetonka Interceptor System. The model will be calibrated for dry weather flow and wet weather flow, run future flow scenarios, and summarize findings and recommendations for 20-year and ultimate planning horizons.

Project need
This effort will help meet the overall project goals and outcomes to better understand capacity constraints, alternatives to accommodate service area expansion, and to determine future projects needed in the capital program.

Planning: 2020 through 2028	Design: N/A	Construction: N/A

Financial analysis

2026 cash flow:	$150,000
Current ACP:	$600,000
2026 through 2031 cash flow:	$1,901,000
Total project cost:	$1,901,000

Program 8041 – Hopkins System Improvements

Program 8041 project areas from Lift Station 27 in Hopkins northeast to the area north of Bde Maka Ska

Description

The program provides for the replacement of a 5-mile-long forcemain, known as the Hopkins forcemain, and lift station L27, located in the city of Hopkins. The forcemain is a single 24- to 30-inch interceptor pipe that begins in Hopkins at the intersection of Blake Road and Lake Street and passes through St. Louis Park and Minneapolis, where it discharges to the 1-MN-330 gravity interceptor sewer. The system serves the cities of Hopkins, St. Louis Park, and Minneapolis. The new forcemain system is constructed as a dual 18- to 24-inch pipe system. The new 6.3 MGD lift station is constructed 700 feet to the west of the existing lift station.

Purpose and justification

These facilities are over 40 years old, have significant condition issues, and lack redundancy. The existing forcemain is constructed as pre-stressed concrete cylinder pipe, which is susceptible to internal and external corrosion. In 2000, a corroded section of the forcemain collapsed within the Dean neighborhood of Minneapolis. In addition, the existing lift station is undersized, with little storage. This presented an operational limitation to addressing malfunctions at the lift station without causing backups to homes or spills.

Program location

The active projects within this program are in the following Council districts: 6

Active projects in program

Due to funding shortages in this program, the last two construction projects in Minneapolis are planned to be funded under the Interceptor Rehabilitation Program 809000. The Hopkins System Improvements family is only used for funding the consultants and the cooperative construction agreements on the two remaining Minneapolis projects.

Project Number	Project Title
804100	Hopkins Systems Improvements (Parent Project)

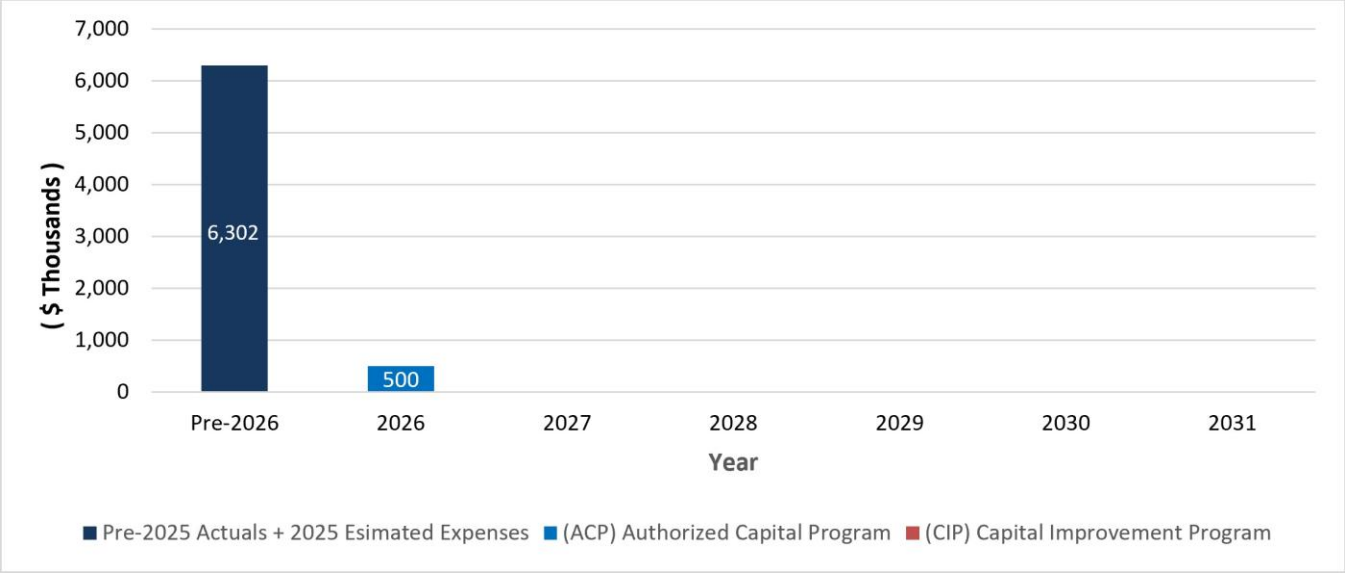
(Continued on next page)

Environmental Services 2026 through 2031 Capital Program

- Authorized Capital Program (ACP): $6,802,073
- Capital Improvement Plan (CIP): $0

Estimated program cash flow from 2026 through 2031

Note: the ACP is the total amount of all past and present authorizations including pre-2026 expenses.



Program 8055 – Lift Station Improvements

L66 (Savage) dry well

Description
Upgrades include improvements, reconstruction, and replacement work for forcemains and lift stations.

Purpose and justification
Capacity and condition assessments are being conducted along with regulatory reviews to identify system-wide lift station upgrades. These upgrades extend the life of facilities, reduce the risk of spills, and improve the safety of staff who operate and maintain lift stations.

Program location
The active projects within this program are in the following Council districts: All

New program additions

Category	Details
Scope	Capacity assessment, pumping and electrical improvements, and structural rehabilitation at 14 lift stations.
Assets	L31, L44, L45, L56, L01, L02, L26, L78, L04, L06, L19, L41, L57, L69
Communities	St. Paul Park, Orono, Eagan, Forest Lake, Wayzata, White Bear Township, Centerville, White Bear Lake, Excelsior, New Hope, Lino Lakes
Added budget	$52,000,000
Construction years	2029 through 2031

Active projects in program

Project Number	Project Title
805500	Lift Station Rehabilitation (Parent Project)
805502	Lift Station Condition Assessments
805506	Forcemain and Siphon Inspections - Phase 1
805509	L65 HVAC Improvements
805511	Lift Stations L50 and L51 Generator Upgrades
805513	Lift Station Electrical Rehabilitation (L01, L02, L03, L31)
805515	Lift Stations L35 and L42 Improvements

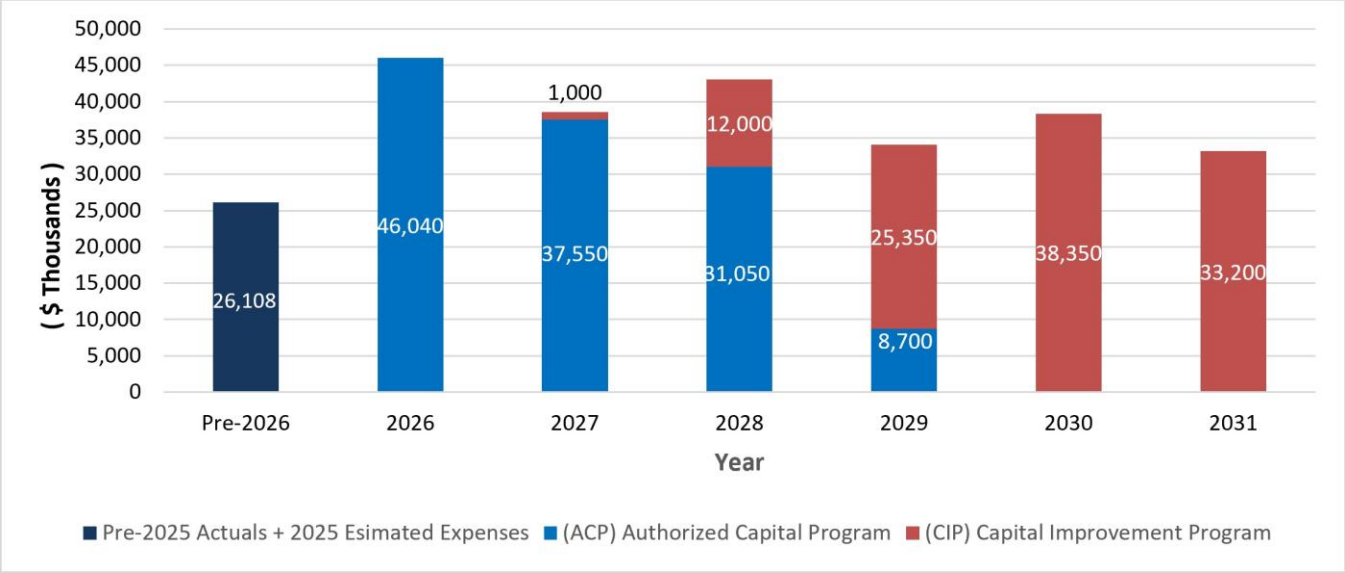
Project Number	Project Title
805516	Lift Station L15 Rehabilitation
805517	Lift Station L75 Odor Control Improvements
805518	Lift Station L79 Odor Control Improvements
805521	Forcemain and Siphon Inspections – Phase 2
805531	L71 Fats, Oils, and Greases (FOG) and Grit Removal
805564	Lift Station L66 Rehabilitation
805568	Lift Station L71 System Improvements
805569	Lift Station L73 Odor Control Improvements
805576	Lift Station L29 Rehabilitation
805581	Anoka-Champlin Forcemain Improvements

Environmental Services 2026 through 2031 Capital Program

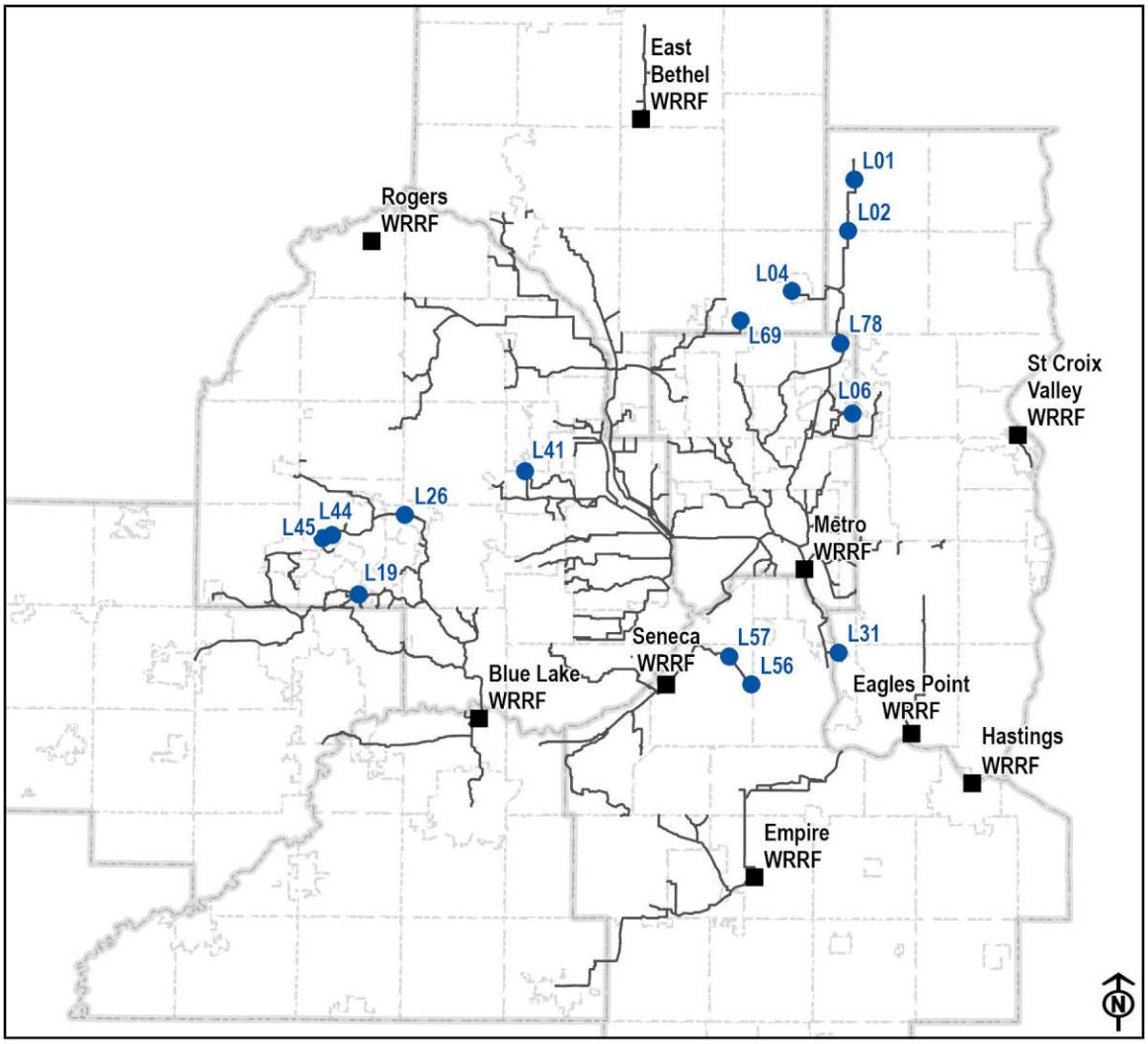
- Authorized Capital Program (ACP): $149,448,302
- Capital Improvement Plan (CIP): $109,900,000

Estimated program cash flow from 2026 through 2031

Note: the ACP is the total amount of all past and present authorizations including pre-2026 expenses.



Lift Station Program Map – New Projects



Lift Station Capital Improvement Projects (CIP)

MCES Wastewater Treatment System

- Lift Stations with CIP
- Water Resource Recovery Facilities (WRRF)
- Interceptors

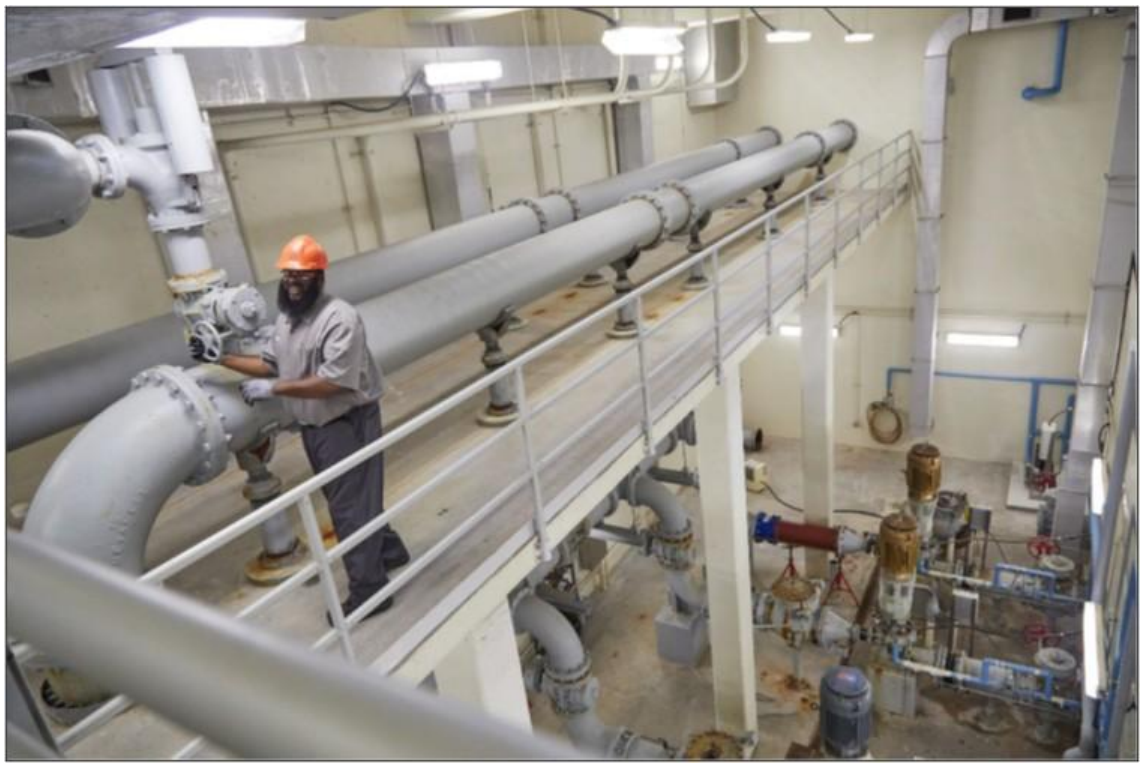
Boundaries

- County
- Community

0 3 6 12 18 24 Miles

Lift Station Condition Assessments
Program family 8055 **Project #805502**

Project location: Council districts #1 to 16, regional project



Interceptor service worker inspects the Rosemount Lift Station (L74)

Project type
Condition Assessment

Objectives
Asset Preservation

Scope
Evaluate and report the condition of lift stations.

Project need
The condition assessments are needed to prioritize and plan lift station repairs and improvements.

Project schedule:

Planning: 2018 through 2027	Design: N/A	Construction: N/A

Financial analysis

2026 cash flow:	$300,000
Current ACP:	$1,600,000
2026 through 2031 cash flow:	$900,000
Total project cost:	$2,171,000

Forcemain and Siphon Inspections - Phase 1

Program family 8055 **Project #805506**

Project location: Districts #13, City of Saint Paul; #15, City of Eagan; #8, City of Golden Valley; and #11, City of Centerville

Project #805506 Inspection of the Seneca outfall.

Project type
Interceptor Condition Assessment

Objectives
Asset Preservation

Scope
Inspection of the Seneca outfall, 1-MS-100 siphon under Warner Road, lift station L41 forcemain (7114), and lift station 7651 forcemain (7651).

Project need
Programmatic evaluation of assets in accordance with the 2022 Forcemain-Siphon-River Crossing-Outfall Inspection Program Manual.

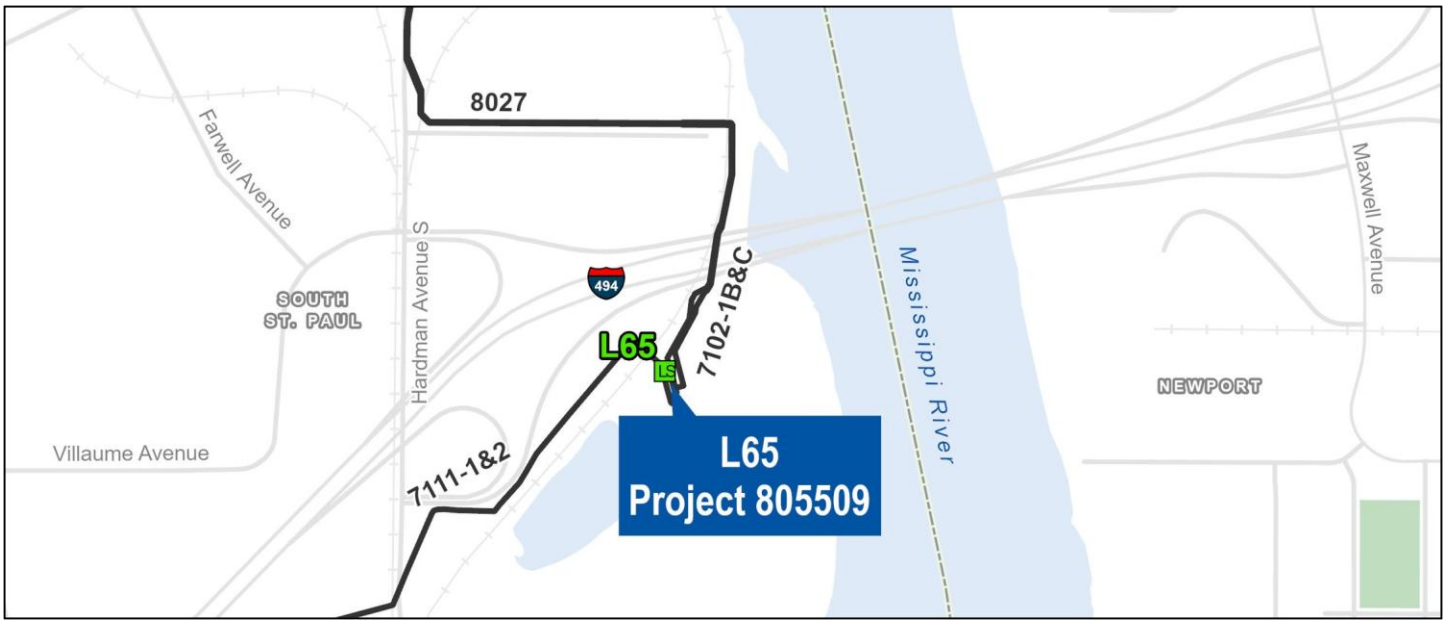
Planning: 2022	Design: 2024	Construction: 2024 through 2026

Financial analysis

2026 cash flow:	$5,000,000
Current ACP:	$6,750,000
2026 through 2031 cash flow:	$30,000,000
Total project cost:	$34,517,000

L65 HVAC Improvements
Program family 8055 **Project #805509**

Project location: Council district #12, City of South Saint Paul



Map of project #805509 near the western shore of the Mississippi River in the City of South Saint Paul.

Project type
Lift Station

Objectives
Asset Preservation

Scope
Rehabilitation of existing HVAC system of the dry side of the facility. Improvements include equipment relocation, new equipment, new HVAC control system, and gas monitoring.

Project need
Portions of L65 HVAC system require frequent maintenance and are approaching the end of their life cycle. Corrosive sewer gases around the facility are also causing corrosion of HVAC equipment.

Planning: 2022 through 2024	Design: 2024 through 2025	Construction: 2026 through 2026

Financial analysis

2026 cash flow:	$100,000
Current ACP:	$800,000
2026 through 2031 cash flow:	$100,000
Total project cost:	$1,014,000

Lift Stations L50 and L51 Generator Upgrades

Program family 8055 **Project #805511**

Project location: Council district #3, City of Minnetrista

Maps and Figures of Project #805511 Lift Stations 50 and 51 Generator Upgrades

Project type
Lift Station Improvements

Objectives
Quality Improvements

Scope
To upgrade electrical, instrumentation, and controls (EIC) equipment at the sites. This includes the purchase of new permanent generators at the sites to provide backup power generation at critical times.

Project need
This project is driven by a lack of system reliability. The existing L50 and L51 are serviced by portable generators and have poor access.

Project schedule:

Planning: N/A	Design: 2025 through 2026	Construction: 2027 through 2028

Financial analysis

2026 cash flow:	$2,000,000
Current ACP:	$3,781,000
2026 through 2031 cash flow:	$6,500,000
Total project cost:	$6,708,000

Lift Station Electrical Rehabilitation (L01, L02, L03, L31)

Program family 8055 **Project #805513**

Project location: Council districts #11, Cities of Forest Lake and Hugo, and #12, City of St. Paul Park

Existing motor control centers (MCCs) at lift station L31.

Project type
Lift Station Improvements

Objectives
Asset Preservation

Scope
At lift stations sites L01 (Forest Lake), L02 (Hugo), L03 (Hugo), and L31 (St. Paul Park), replace MCC (Motor Control Center), add new enclosures, replace main breakers, replace manual transfer switches with automatic transfer switches, and install permanent generators in outdoor enclosures.

Project need
The electrical condition assessment reports, preventative maintenance data, and arc flash study results were reviewed and prioritized by ES engineering, electrical, and ISBU staff. Each site is identified as a site needing rehabilitation as soon as possible. The sites have many components in poor shape or obsolete.

Project schedule:

Planning: 2022 through 2023	Design: 2023 through 2025	Construction: 2026 through 2027

Financial analysis

2026 cash flow:	$5,000,000
Current ACP:	$12,487,000
2026 through 2031 cash flow:	$8,500,000
Total project cost:	$10,500,000

Lift Stations L35 and L42 Improvements

Program family 8055 **Project #805515**

Project location: Council district #10 and #9, Cities of Mounds View and Anoka

Lift Station L35 wet well

Project type
Lift Station Improvements

Objectives
Asset Preservation

Scope
The lift station improvements will include pump replacement, wet well rehabilitation, odor control upgrades, HVAC upgrades, and electrical upgrades for each of the two respective lift stations. The L35 Forcemain 4-NS-524 and L42 Forcemain 7707A will be assessed to confirm necessary forcemain and appurtenance improvements.

Project need
L35 was originally constructed in 1965 and hasn't received any significant improvements since then. L42 was evaluated in 2023 and found to have deficiencies in electrical, mechanical, and structural systems in addition to inoperable air release valves on the forcemain. **Project schedule:**

Planning: 2025	Design: 2026 through 2027	Construction: 2028 through 2030

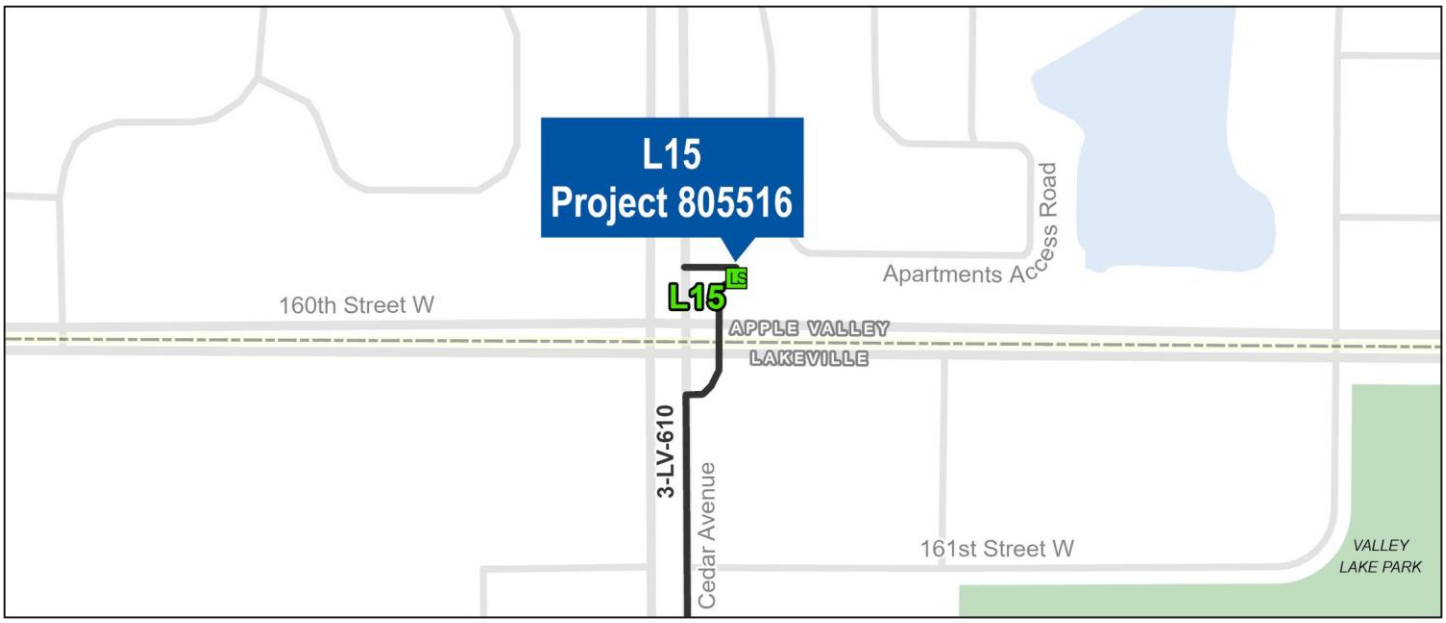
Financial analysis

2026 cash flow:	$1,000,000
Current ACP:	$3,141,000
2026 through 2031 cash flow:	$34,000,000
Total project cost:	$35,500,000

Lift Station L15 Rehabilitation

Program family 8055 **Project #805516**

Project location: Council district #15, City of Apple Valley



Project #805516 L15 location in Apple Valley near the intersection of 160th Street West and Cedar Avenue

Project type
Lift Station Improvements

Objectives
Asset Preservation

Scope
There are many updates needed to replace corroded electrical and mechanical equipment, concrete walls, and civil work.

Project need
L15 has outdated and deteriorating mechanical, HVAC, and electrical equipment that needs to be replaced and improved.

Project schedule:

Planning: 2025	Design: 2025 through 2027	Construction: 2027 through 2029

Financial analysis

2026 cash flow:	$200,000
Current ACP:	$1,950,000
2026 through 2031 cash flow:	$13,200,000
Total project cost:	$16,300,000

Lift Station L75 Odor Control Improvements

Program family 8055 **Project 805517**

Project location: Council district 12 City of Rosemount

Lift Station L75

Project type
Odor Control

Objectives
Quality Improvements

Scope
Upgrading the existing odor control unit.

Project need
Encroaching development has resulted in odor complaints and the need to improve odor control at the site.

Planning: 2026 through 2027	Design: 2027	Construction: 2027 through 2028

Financial analysis

2026 cash flow:	$200,000
Current ACP:	$0
2026 through 2031 cash flow:	$5,000,000
Total project cost:	$5,000,000

Lift Station L79 Odor Control Improvements

Program family 8055 **Project #805518**

Project location: Council district 16, Eureka Township

Location of Lift Station L79.

Project type
Odor Control

Objectives
Asset Preservation

Scope
Remove and replace an existing odor control system.

Project need
Ventilation and odor control systems need to be upgraded to meet current NFPA and Ten States Standards.

Planning: 2025 through 2026	Design: 2026	Construction: 2026 through 2028

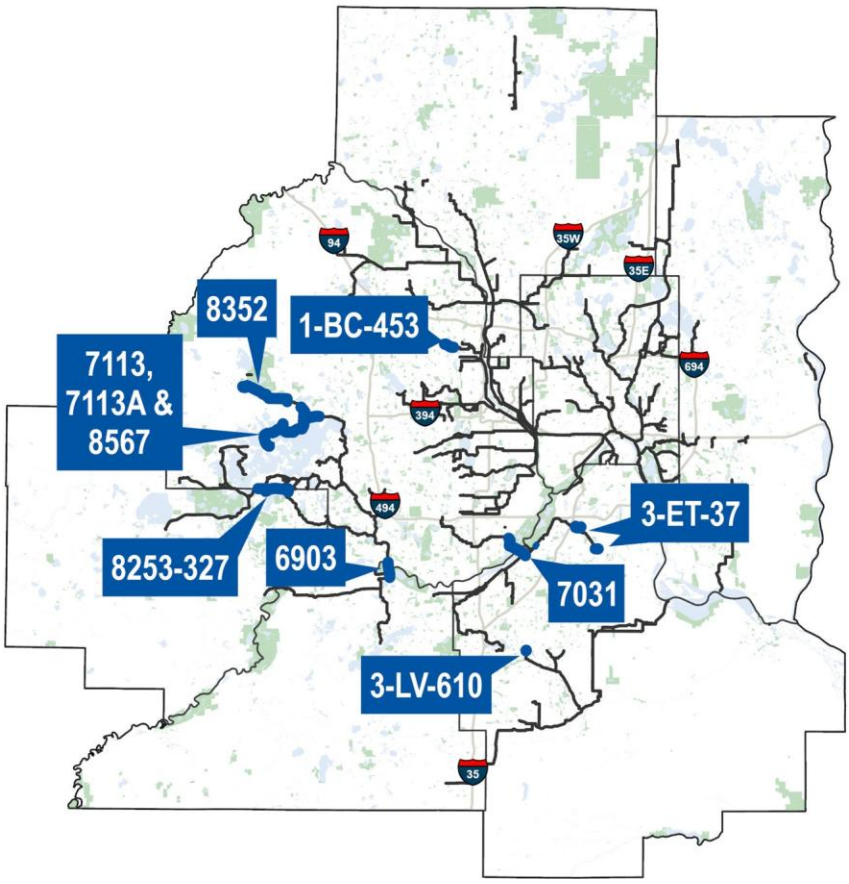
Financial analysis

2026 cash flow:	$200,000
Current ACP:	$2,695,000
2026 through 2031 cash flow:	$3,800,000
Total project cost:	$4,000,000

Forcemain and Siphon Inspections – Phase 2

Program family 8055 **Project #805521**

Project location: Council districts 1, 2, 3, 4, 5, 15, and 16; Cities of Apple Valley, Bloomington, Brooklyn Center, Eagan, Eden Prairie, Excelsior, Lakeville, Long Lake, Maple Plain, Orono, Shakopee, Spring Park, & Wayzata



Project locations across the seven-county Twin Cities metropolitan area

Project type
Interceptor

Objectives
Asset Preservation

Scope
Inspect ductile iron pipe forcemains using electromagnetic technology.

Project need
Aging facilities need to be inspected to assess existing conditions and the need for upgrades.

Planning: 2025 through 2026	Design: 2026	Construction: 2027 through 2028

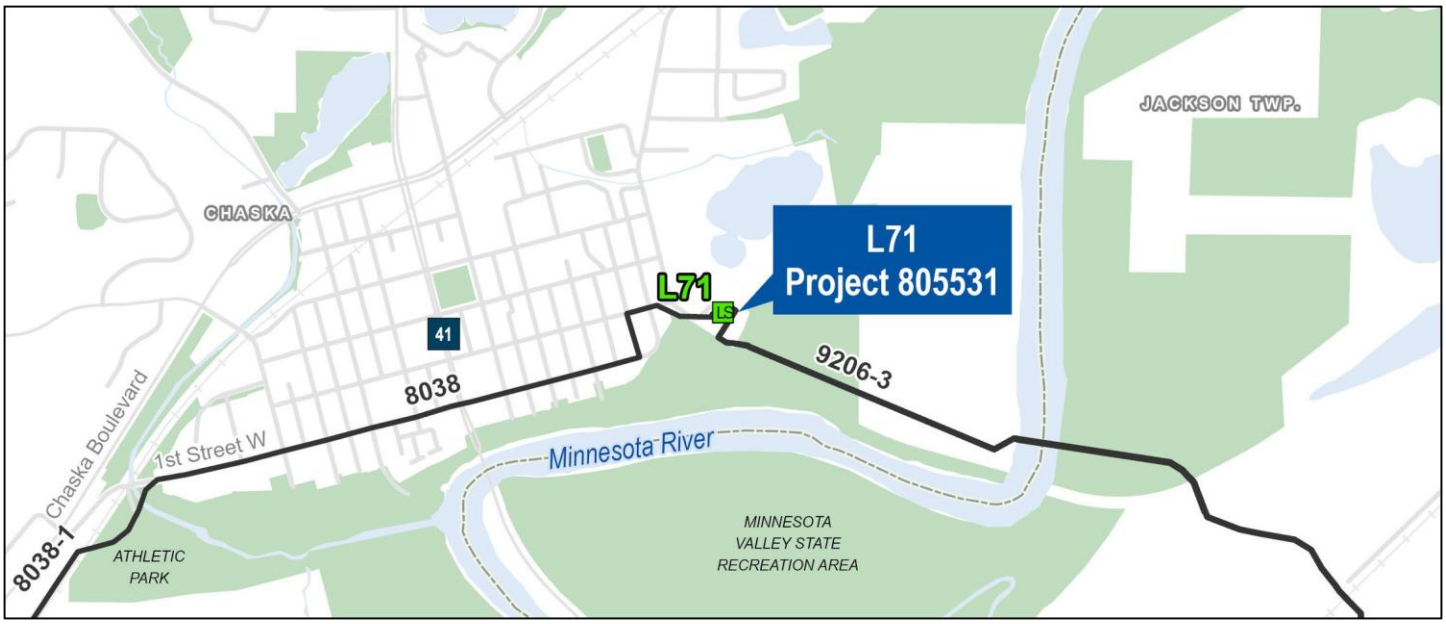
Financial analysis

2026 cash flow:	$200,000
Current ACP:	$5,635,000
2026 through 2031 cash flow: Total project cost:	$8,200,000

L71 Fats, Oils, and Greases (FOG) and Grit Removal

Program family 8055 **Project #805531**

Project location: Council district 4, City of Chaska.



L71 Project Location

Project type
Lift Station

Objectives
Quality Improvements

Scope
Install a grit removal chamber upstream of the lift station wet well.

Project need
Grit removal improvements are needed to extend pump life and minimize lift station and forcemain system maintenance.

Planning: 2026 through 2027	Design: 2027	Construction: 2028 through 2029

Financial analysis

2026 cash flow:	$150,000
Current ACP:	$900,000
2026 through 2031 cash flow:	$15,800,000
Total project cost:	$15,950,000

Lift Station L66 Rehabilitation

Program family 8055 **Project #805564**

Project location: Council district #16, City of Savage

Map of project #805564 location south of Highway 13 and north of Savage Fen in Savage

Project type
Lift Station Improvements

Objectives
Asset Preservation and Quality Improvements

Scope
The lift station rehabilitation will include HVAC upgrades, a carbon tank, a new generator, wet well rehabilitation, pump replacement, and electrical upgrades.

Project need
Wet well rehabilitation is needed due to the substantial concrete deterioration. The station also needs new pumps to accommodate for projected 2040 flows. The HVAC is not up to code and needs replacement.

Project schedule:

Planning: N/A	Design: 2017 through 2025	Construction: 2025 through 2027

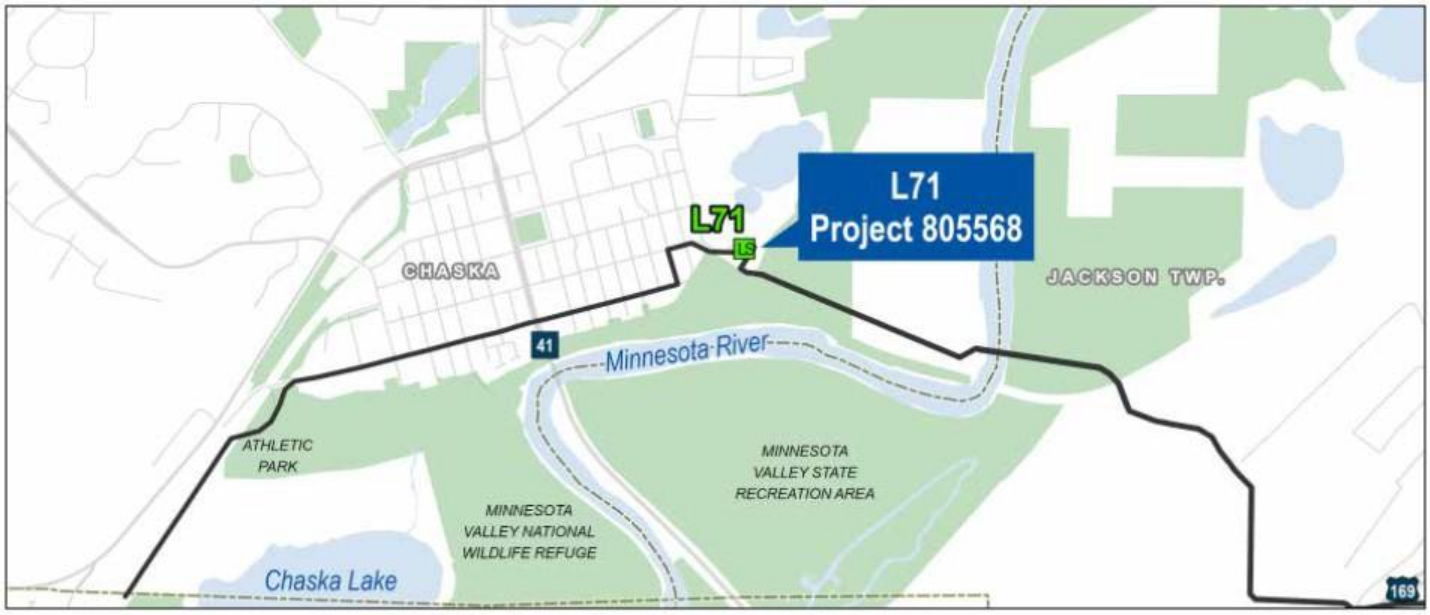
Financial analysis

2026 cash flow:	$8,000,000
Current ACP:	$13,422,000
2026 through 2031 cash flow:	$8,750,000
Total project cost:	$11,512,000

Lift Station L71 System Improvements

Program family 8055 **Project #805568**

Project location: Council district #4, City of Chaska, 600 4th Street East and eastward into Shakopee



Project #805568 L71 location north of the Minnesota River in Chaska

Project type
Lift Station Improvements

Objectives
Asset Preservation

Scope
Ongoing investigations of upstream contributions and results of pump testing and odor treatment will be evaluated to determine the scope of work. Preliminary indications are that fats, oils, and greases (FOG) pre-treatment, forcemain modifications, and odor control will be needed.

Project need
L71 receives high-strength wastewater containing significant volumes of FOG. The FOG impacts the lift station and forcemain operations. This has resulted in decreased capacity and creates odors.

Project schedule:

Planning: 2023 through 2024	Design: 2025	Construction: 2026 through 2027

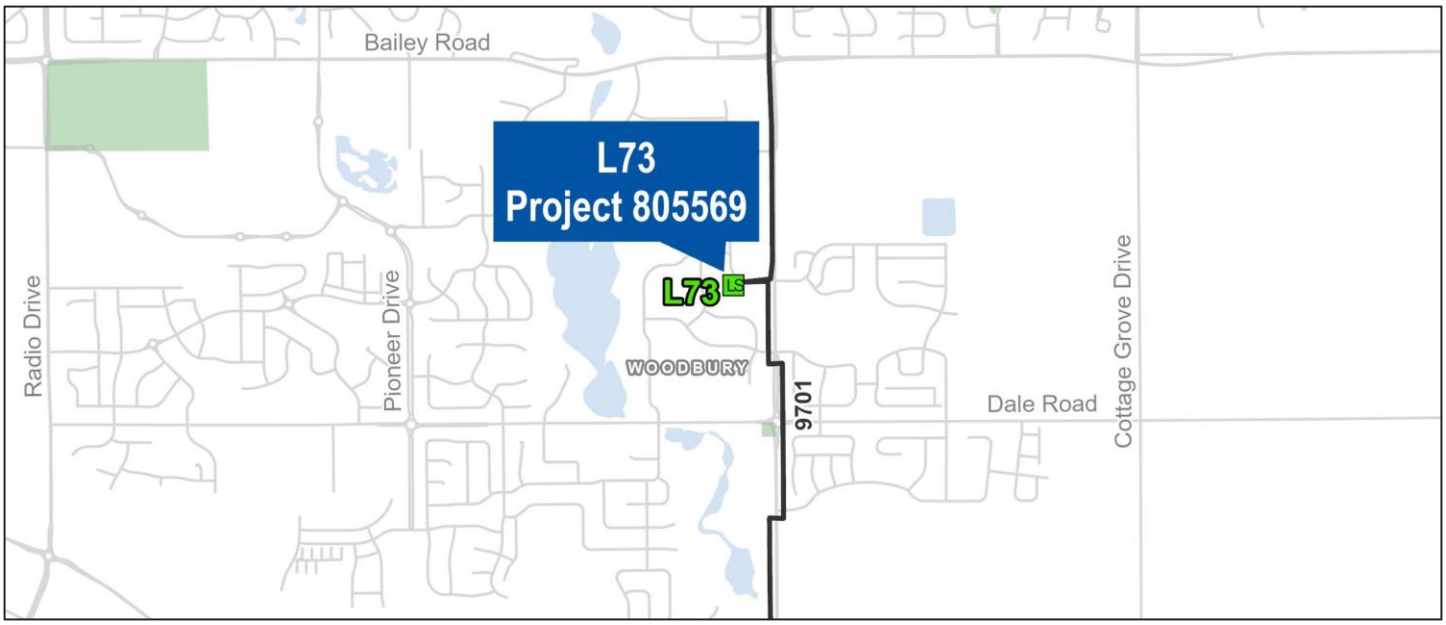
Financial analysis

2026 cash flow:	$7,000,000
Current ACP:	$6,100,000
2026 through 2031 cash flow:	$24,000,000
Total project cost:	$24,356,000

Lift Station L73 Odor Control Improvements

Program family 8055 **Project #805569**

Project location: Council district #12, City of Woodbury



L73 location north of Dale road in Woodbury

Project type
Lift Station Improvements

Objectives
Quality Improvements

Scope
Replace an existing biofilter odor control system with a carbon odor control unit.

Project need
Improvements are needed to better control odor emissions from the lift station following development of neighboring properties.

Planning: 2023	Design: 2024	Construction: 2025

Financial analysis

2026 cash flow:	$250,000
Current ACP:	$3,250,000
2026 through 2031 cash flow:	$250,000
Total project cost:	$2,798,000

Lift Station L29 Rehabilitation

Program family 8055 **Project #805576**

Project location: Council district #1, City of Plymouth

Project #805576 location in Plymouth

Project type
Lift Station Improvements

Objectives
Asset Preservation and Quality Improvements

Scope
A planning study is reviewing capacity, current condition, and system reliability for both the lift station and associated forcemain.

Project need
Operational issues and a lack of redundancy in the station pumping equipment have presented issues for maintenance of the lift station. Condition assessments for the over 50-year-old forcemain piping are necessary to maintain reliability.

Project schedule:

Planning: 2024 through 2025	Design: 2025 through 2026	Construction: 2027 through 2028

Financial analysis

2026 cash flow:	$600,000
Current ACP:	$1,200,000
2026 through 2031 cash flow:	$600,000
Total project cost:	$1,336,000

Anoka-Champlin Forcemain Improvements

Program family 8055 **Project #805581**

Project location: Council districts #2 and 9, Cities of Anoka and Champlin, north and south sides of the Mississippi River at Highway 169

Project #805581 location on either side of the Mississippi River in Anoka and Champlin

Project type
Lift Station and Interceptor Improvements

Objectives
Asset Preservation and Quality Improvements

Scope
Results of pump testing will be evaluated to determine the scope of work. Preliminary indications are that a second forcemain will be needed.

Project need
L33, L42, L67, and their respective forcemains are interconnected. Forcemain 8751, downstream of all three lift stations, is an aging single 24-inch barrel. Installation of a redundant forcemain will be evaluated for system reliability and to complete future maintenance.

Project schedule:

Planning: 2023 through 2024	Design: 2026 and 2027	Construction: 2027 through 2029

Financial analysis

2026 cash flow:	$6,500,000
Current ACP:	$4,290,000
2026 through 2031 cash flow:	$15,000,000
Total project cost:	$17,182,000

Program 8056 – Meter Station Improvements

Photo of typical flow meter

Description

This program provides funding to upgrade Environmental Services' (ES) ability to measure flows for billing, operational, and planning purposes and standardize meter equipment at similar facilities. Meter improvements include meter rehabilitation or replacement, planning meter installation, and new meter installation.

Purpose and justification

Accurate flow metering is the basis of the ES's billing system. It is essential that our customers trust the reliability and accuracy of the flow metering system. The project provides a systematic approach for capital improvements to the flow metering system. Increases in flow, greater emphasis on capturing peak flows stemming from ES's infiltration/inflow program, normal facility rehabilitation needs, and the need for additional flow metering locations for system planning purposes are driving this meter improvements project.

Program location

The active projects within this program are in the following Council districts: All

New program additions

Category	Details
Scope	Accuracy improvements and structural rehabilitation at four meters.
Assets	M011, M017, M039, M117
Communities	Woodbury, Maplewood, White Bear Township, Vadnais Heights, Golden Valley
Added budget	$5,500,000
Construction years	2027 through 2031

Active projects in program

Project Number	Project Title
805600	Meter Improvements (Parent Project)
805603	Flow Meter Program Support
805607	Meter M127 Improvements
805608	Meter M500A Improvements

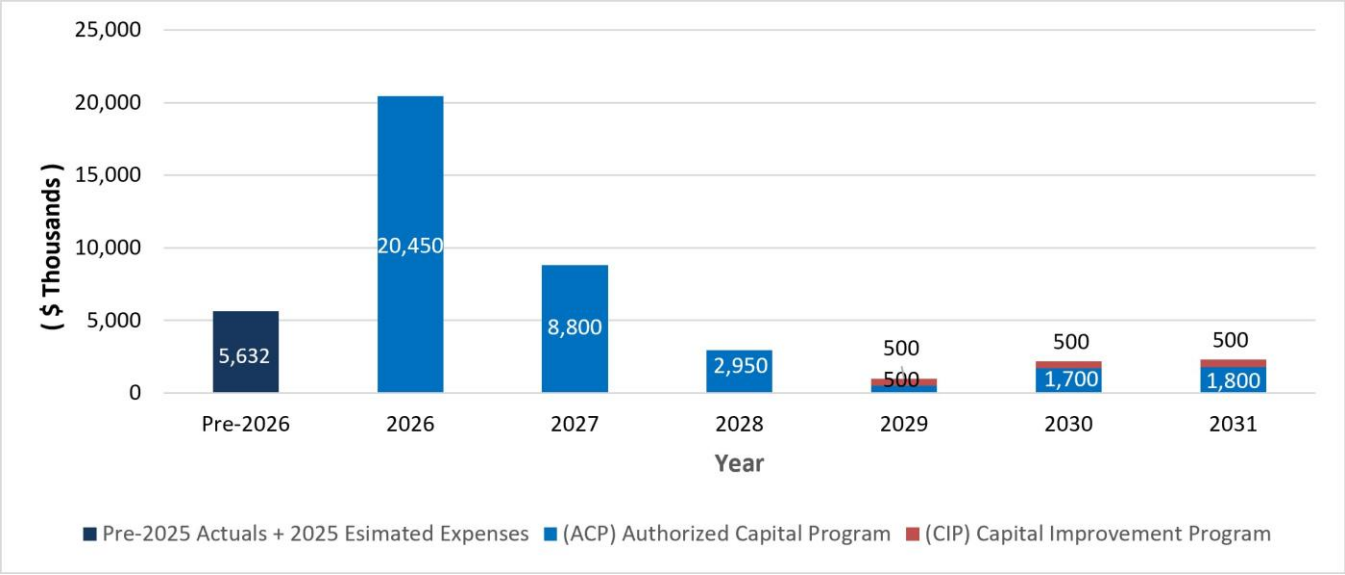
Project Number	Project Title
805609	Meters M413, M643A, and M657 Improvements
805611	Meter M112 Rehab
805612	Meters M641 and M644 Improvements
805613	Chanhassen Eden Prairie Meter M448 Improvements
805615	Meter M106 Rehabilitation
805616	Meter M132 Odor Control Improvements
805636	Replacement Meter Vault M228

Environmental Services 2026 through 2031 Capital Program

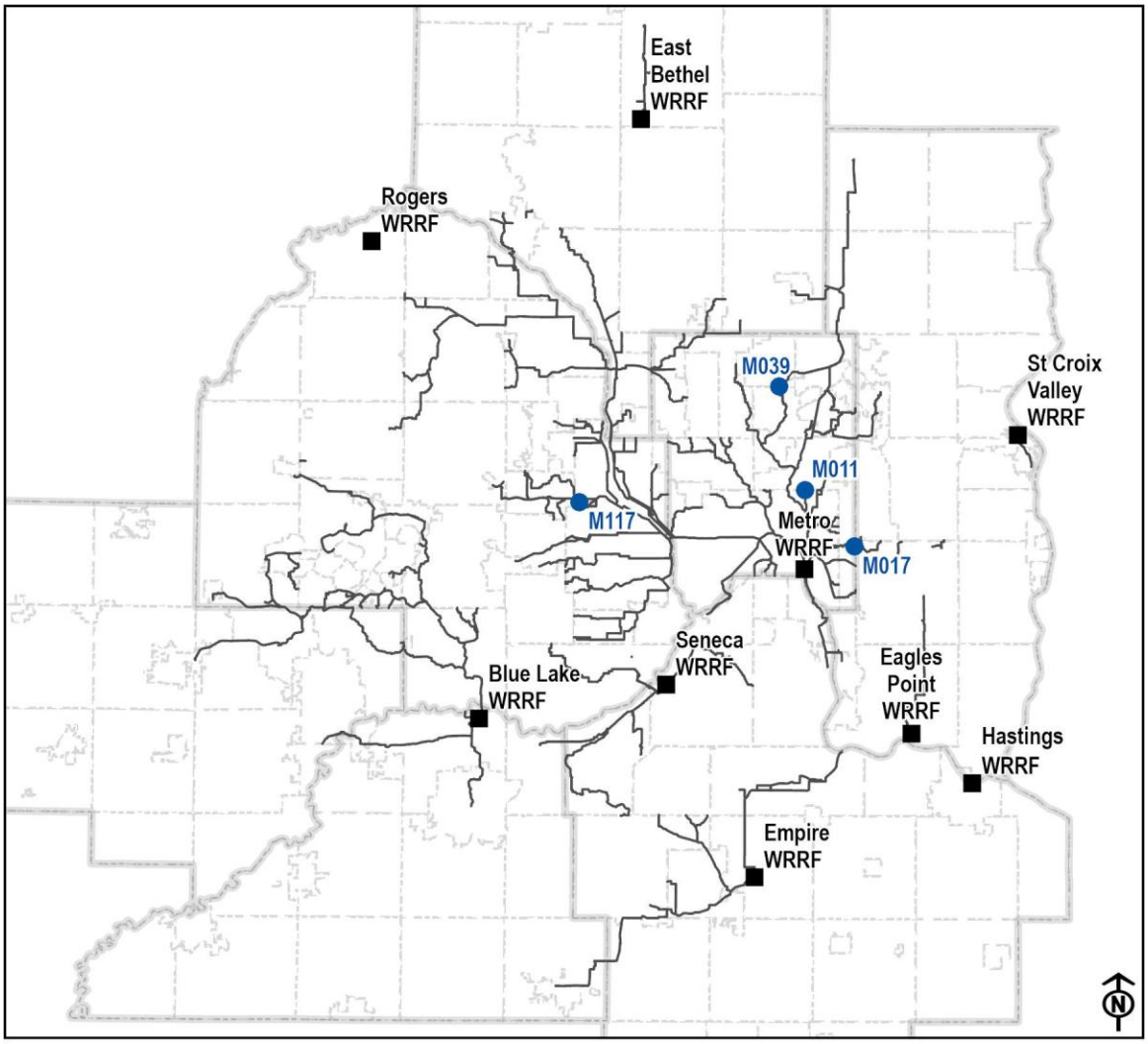
- Authorized Capital Program (ACP): $41,831,523
- Capital Improvement Plan (CIP): $1,500,000

Estimated program cash flow from 2026 through 2031

Note: the ACP is the total amount of all past and present authorizations including pre-2026 expenses.



Meter Program Map – New Projects



Meter Capital Improvement Projects (CIP)

MCES Wastewater Treatment System

- Meters with CIP
- Water Resource Recovery Facilities (WRRF)
- Interceptors

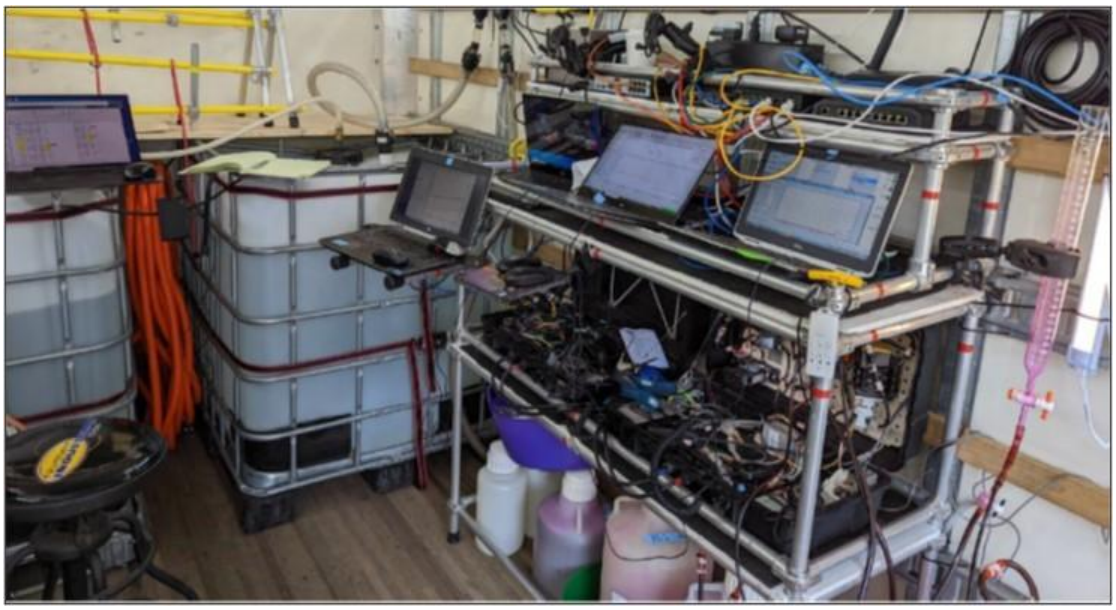
Boundaries

- County
- Community

0 3 6 12 18 24 Miles

Flow Meter Program Support
Program family 8056 **Project #805603**

Project location: Council districts #1 to 16, regional project



Dilution dye testing mobile laboratory for verification and calibration of ES Flow meters.

Project type
Condition Assessment and Study

Objectives
Asset Preservation

Scope
Perform annual flow meter calibration tests to verify accuracies.

Project need
The ES cost allocation program relies extensively on the performance and accuracy of wastewater flow meters for billing, and many meters have never had their accuracy tested.

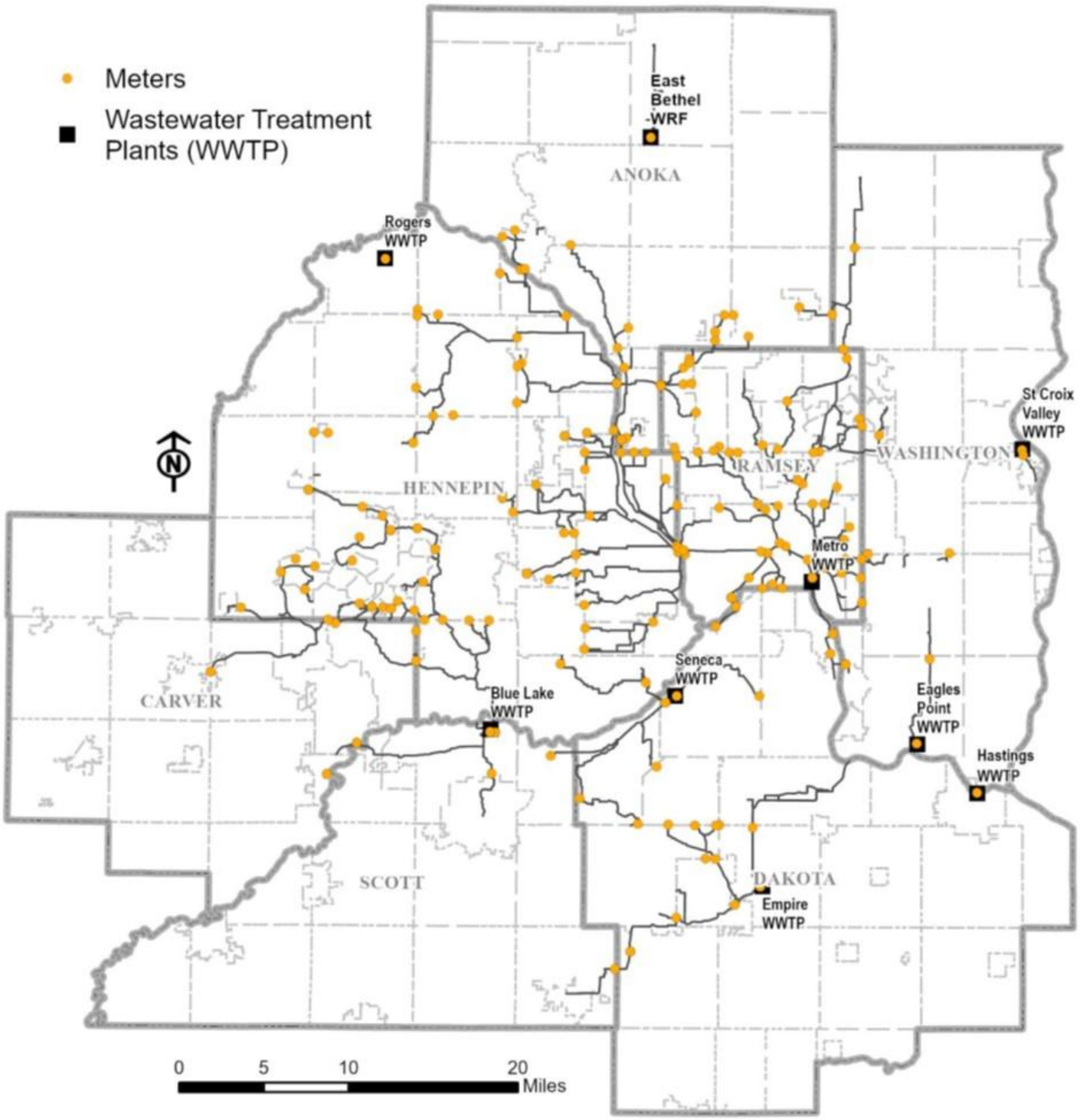
Project schedule:

Planning: 2026 through 2028	Design: N/A	Construction: N/A

Financial analysis

2026 cash flow:	$500,000
Current ACP:	$2,736,000
2026 through 2031 cash flow:	$3,000,000
Total project cost:	$5,661,000

MCES Project 805603



Meter M127 Improvements

Program family 8056 **Project #805607**

Project location: Council district #5, City of Edina

Map of project #805607 location near Minnehaha Creek in Edina.

Project type
Meter Improvements

Objectives
Asset Preservation and Quality Improvements

Scope
M127 is a Parshall flume meter that has known capacity issues. Because of this, the meter is intended to be replaced, and improvements are planned to be made to the upstream and downstream interceptors.

Project need
M127 was found to be improperly sized, which leads to consistent surcharging of the meter. Additionally, the upstream and downstream pipes were found to have a negative slope through the meter, which has worsened the surcharging issue. Both problems need to be addressed so that the meter can function properly without surcharge.

Planning: 2024 through 2025	Design: 2025 through 2026	Construction: 2027 through 2028

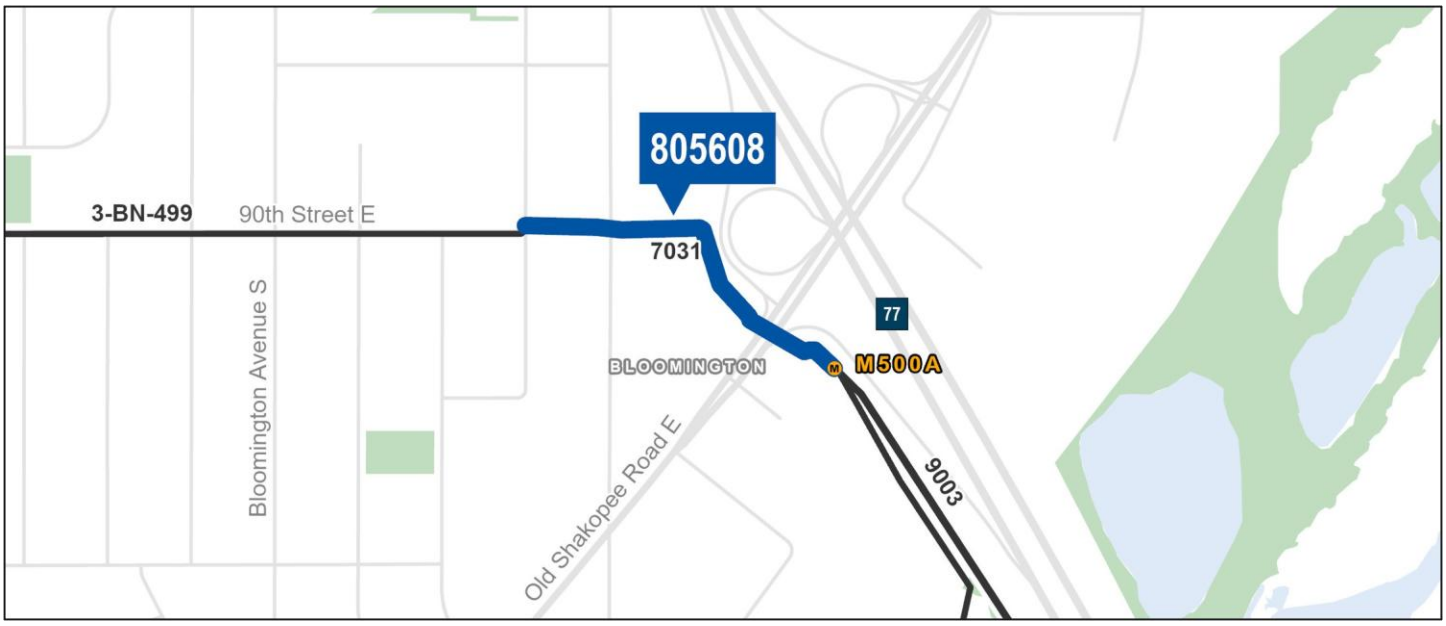
Financial analysis

2026 cash flow:	$2,800,000
Current ACP:	$835,000
2026 through 2031 cash flow:	$2,950,000
Total project cost:	$3,184,000

Meter M500A Improvements

Program family 8056 **Project #805608**

Project location: Council district #5, City of Bloomington



Map of project #805608 location near Old Shakopee Road East in Bloomington.

Project type
Meter Improvements

Objectives
Quality Improvements

Scope
M500A will be replaced with a new Parshall flume meter to provide more accurate flow metering. Additionally, odor issues upstream of the meter will be addressed specifically through reconfiguring Special MH-3.

Project need
M500A is a Parshall flume meter that was found to be improperly sized. To provide better flow metering, the meter should be replaced with a flume that is appropriately sized for the flow conditions in the area. Additionally, there have been ongoing odor complaints in the area, which are likely caused by a drop in Special MH-3 that will be reconfigured to reduce the release of hydrogen sulfide (H_2S).

Planning: 2023 through 2025	Design: 2025 through 2026	Construction: 2027 through 2028

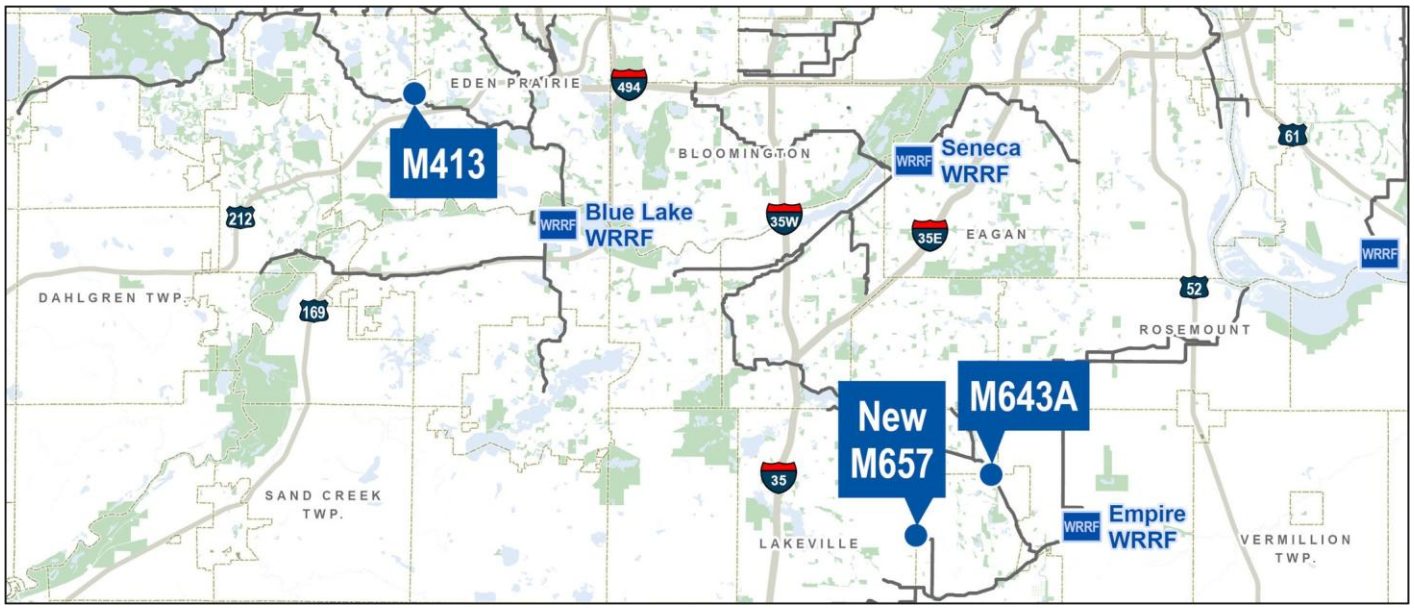
Financial analysis

2026 cash flow:	$75,000
Current ACP:	$1,050,000
2026 through 2031 cash flow:	$1,850,000
Total project cost:	$1,990,000

Meters M413, M643A, and M657 Improvements

Program family 8056 **Project #805609**

Project location: Council districts #3, Cities of Chanhassen and Eden Prairie; #16, Cities of Lakeville and Farmington



Map of Project #805609 locations in cities of Chanhassen, Eden Prairie, Lakeville, and Farmington

Project type
Meter Improvements

Objectives
Asset Preservation, Quality Improvements, and System Expansion

Scope
The M413 site work will consist of meter vault and flume improvements, the addition of a new maintenance structure at the junction of interceptors 7138 and 7025-1, gravity sewer rehabilitations and replacement, and maintenance structure rehabilitation. The M643A site work will consist of meter vault and flume improvements, gravity sewer rehabilitation, and maintenance structure rehabilitation. The new meter M657 site work will consist of constructing a new billing meter vault with flume, driveway, and maintenance structure reconstruction.

Project need
Nested flumes in M413 and M643A are in poor condition, have poor hydraulics that make accurate measurement of flow impossible, and have inadequate max flow rate ratings for measuring forecasted future flows. This project is needed to improve these facilities so that ES meets its financial Customer Level of Service.

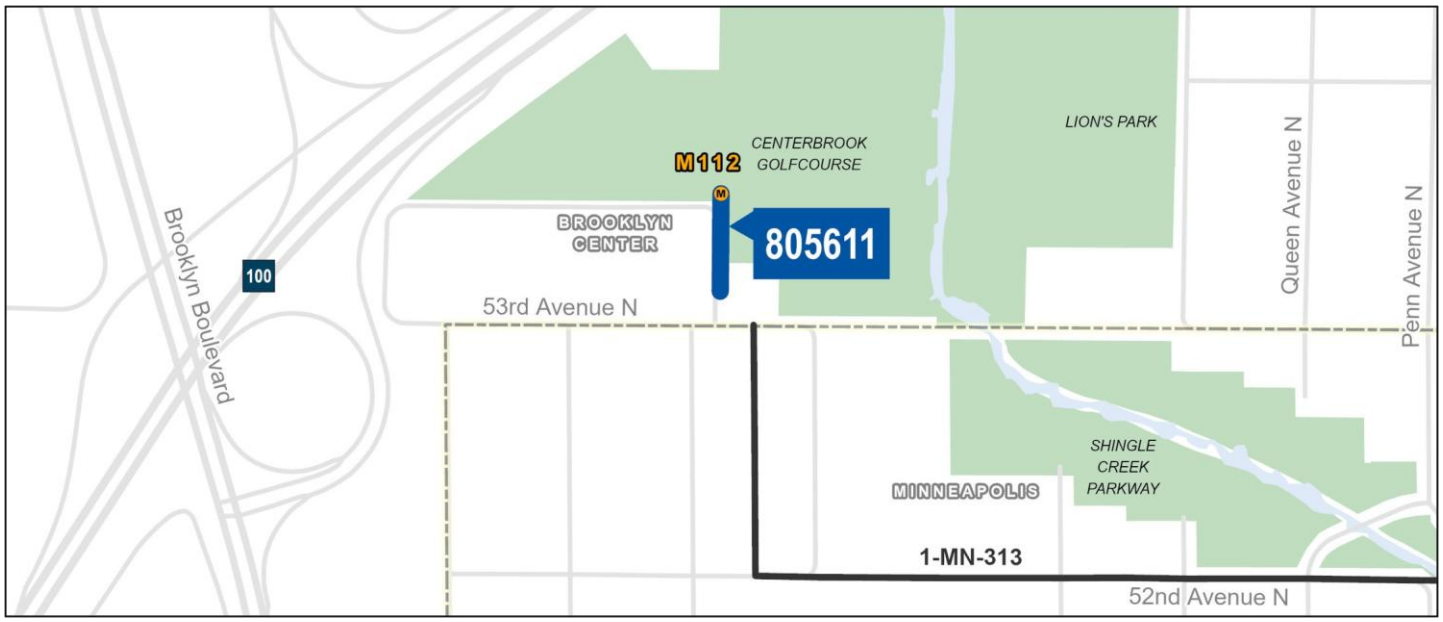
Planning: 2024	Design: 2024 through 2026	Construction: 2025 through 2028

Financial analysis

2026 cash flow:	$1,500,000
Current ACP:	$3,100,000
2026 through 2031 cash flow:	$5,450,000
Total project cost:	$5,685,000

Meter M112 Rehab
Program family 8056 **Project #805611**

Project location: Council district #2, City of Brooklyn Center



Map of Meter M112 in Centerbrook Golf Course

Project type
Meter Improvements

Objectives
Asset Preservation and Quality Improvements

Scope
The Meter M112 project will replace the existing meter vault and Parshall flume and upstream and downstream piping. The city sewer upstream and downstream of the pipe replacement area will be rehabilitated with cured-in-place pipe (CIPP) as part of a cooperative agreement.

Project need
A 2021 condition assessment of the meter assessed the overall site condition as poor (condition 4). The condition assessment found the Parshall flume is not a standard size, is separating from the surrounding concrete floor and walls, and has suboptimal hydraulics, severe corrosion of the vault, and deteriorated upstream and downstream pipes. Metering problems resulting from these issues could result in reduced accuracy, extended loss of billing data, and damage to customer relations.

Planning: 2025	Design: 2025	Construction: 2026 to 2027

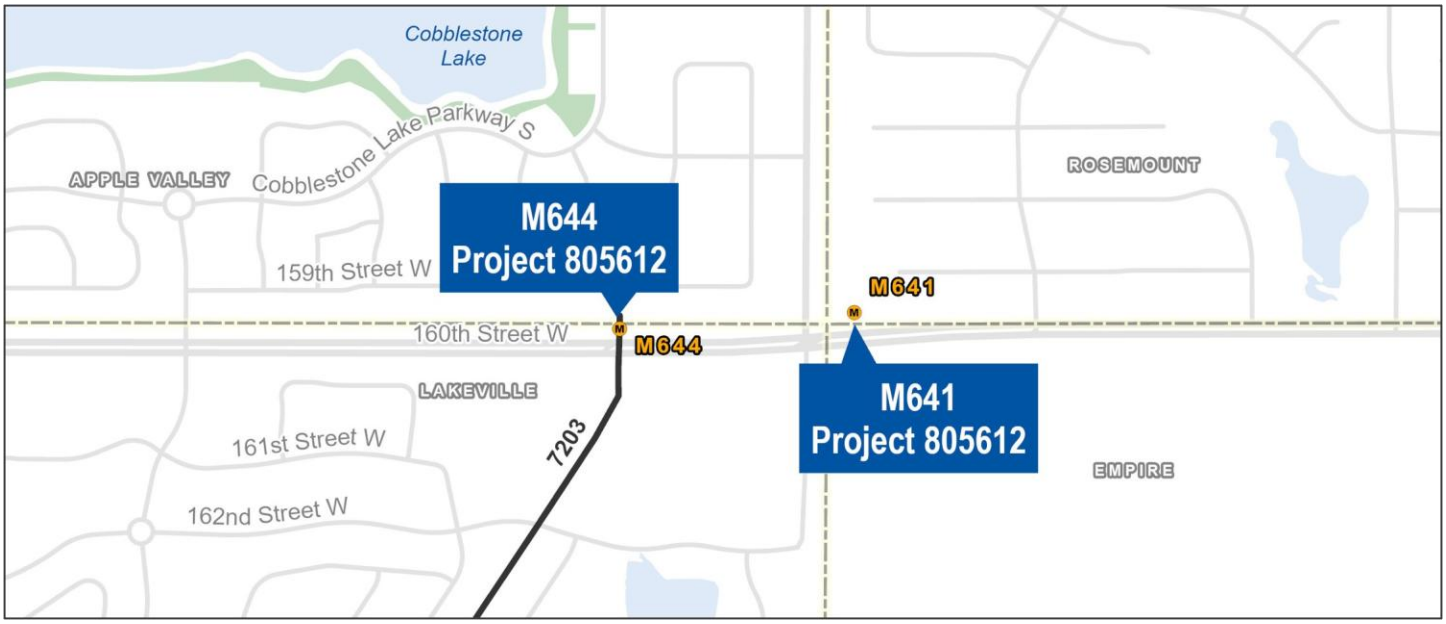
Financial analysis

2026 cash flow:	$2,400,000
Current ACP:	$4,906,000
2026 through 2031 cash flow:	$2,700,000
Total project cost:	$2,892,000

Meters M641 and M644 Improvements

Program family 8056 **Project #805612**

Project location: Council districts 12 and 16, Cities of Rosemount and Lakeville



Location of Meters M644 and M641

Project type
Meter Improvements

Objectives
Asset Preservation and Quality Improvements

Scope
Work to include vault rehabilitation and flume improvements.

Project need
Condition Assessments of M64 and M644 found significant grit deposits. A 2021 condition assessment of the meters assessed the overall site conditions as poor (condition 4). The condition assessment found significant grit deposits, suboptimal hydraulics, and corrosion of the vault. Metering problems resulting from these issues could result in reduced accuracy, extended loss of billing data, and damage to customer relations.

Planning: 2025	Design: 2026	Construction: 2027

Financial analysis

2026 cash flow:	$450,000
Current ACP:	$720,000
2026 through 2031 cash flow:	$2,950,000
Total project cost:	$3,000,000

Chanhassen Eden Prairie Meter M448 Improvements

Program family 8056 **Project #805613**

Project location: Council District #3, Cities of Chanhassen and Eden Prairie

Map of Project #805613 location

Project type
Meter Improvements

Objectives
Quality Improvements

Scope
M448 Improvements will include construction of a new meter maintenance structure in the immediate vicinity of existing meter M448.

Project need
Dye testing and condition assessments confirmed poor hydraulics through the meter that make accurate measurement of flow in the existing setup impossible.

Planning: 2024 through 2025	Design: 2025 to 2026	Construction: 2026 through 2027

Financial analysis

2026 cash flow:	$250,000
Current ACP:	$200,000
2026 through 2031 cash flow:	$400,000
Total project cost:	$450,000

Meter M106 Rehabilitation

Program family 8056 **Project #805615**

Project location: Meter station M106, Council districts #2 and 7, Cities of Columbia Heights and Minneapolis

Map of project #805615, located at the intersection of 37th Avenue NE and Central Avenue NE in Columbia Heights

Project type
Meter Improvements

Objectives
Asset Preservation and Quality Improvements

Scope
The project will involve removing and replacing the existing Parshall flume and flow measurement equipment, as well as replacing the ladder and other structural components within the structure if necessary. It will also include temporary flow conveyance, traffic control, and improvements to any hydraulic deficiencies to ensure accurate flow measurements.

Project need
Meter M106 is equipped with a non-standard, metal-fabricated 6-inch Parshall flume that lacks a proper diverging section. The upstream measurement point has accumulated over 3 inches of grit, along with minor surface waves and undulations, which is not ideal for the flume's performance. A dye test conducted in 2022 and 2023 revealed a discrepancy between actual flow data and dye test results. To ensure accurate flow measurement, the flume within the structure should be replaced with a standard Parshall flume, and the underlying hydraulic issues must be addressed.

Planning: 2025	Design: 2025-2026	Construction: 2027

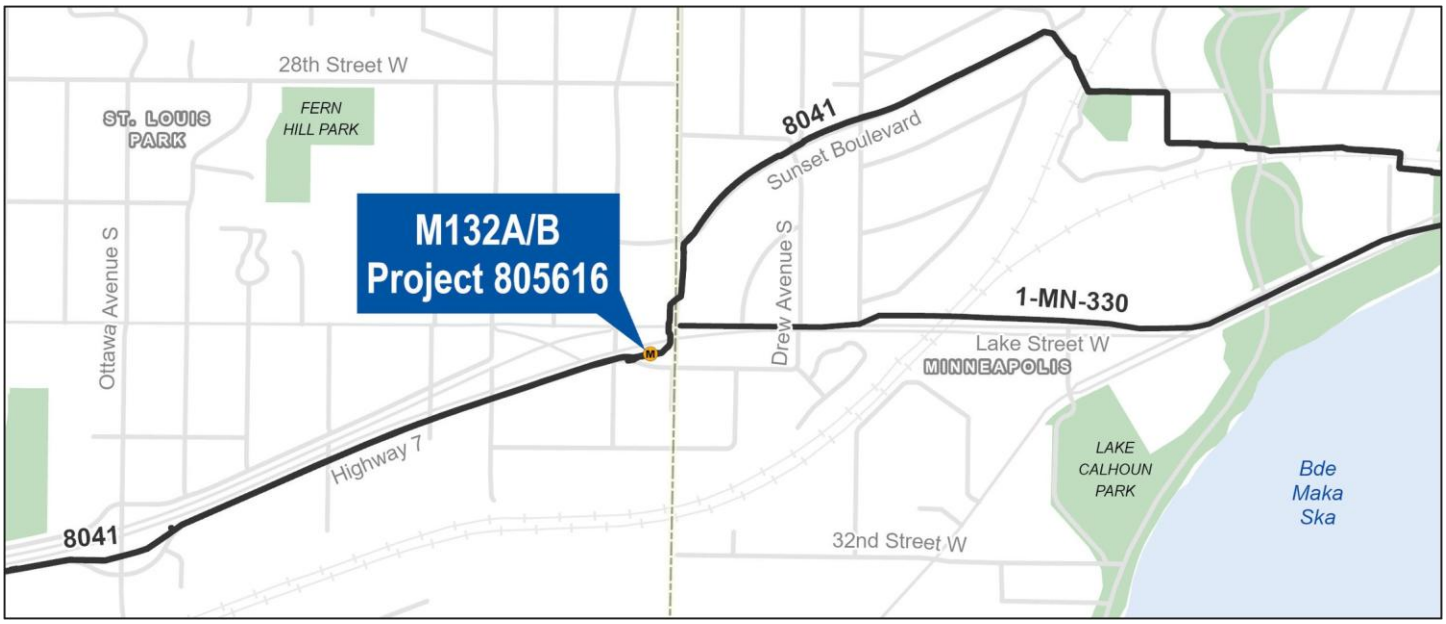
Financial analysis

2026 cash flow:	$250,000
Current ACP:	$274,000
2026 through 2031 cash flow:	$400,000
Total project cost:	$500,000

Meter M132 Odor Control Improvements

Program family 8056 **Project #805616**

Project location: Council district 8, City of St. Louis Park



Location of M132 A/B Project

Project type
Odor Control

Objectives
Quality Improvements

Scope
Remove and replace the existing carbon odor control unit with a photoionization odor control unit.

Project need
Meter M132 is located in a highly populated area requiring robust odor control. The existing carbon unit is not performing adequately.

Planning: 2025	Design: 2025 through 2026	Construction: 2027 through 2028

Financial analysis

2026 cash flow:	$100,000
Current ACP:	$0
2026 through 2031 cash flow:	$3,000,000
Total project cost:	$3,000,000

Replacement Meter Vault M228

Program family 8056 **Project #805636**

Project location: Council district #2, City of Brooklyn Park

Project #805636 location near Bass Creek Park in Brooklyn Park

Project type
Meter Improvements

Objectives
Asset Preservation and Quality Improvement

Scope
Replace existing Meter M228. Install a laser flow manhole meter and repair downstream pipe sag using an injection grout method to rehabilitate.

Project need
Replace and update meter due to corrosion and difficult access. The meter is important to ensure accuracy of cost distribution among communities.

Project schedule:

Planning: 2019	Design: 2020 through 2026	Construction: 2026 through 2027

Financial analysis

2026 cash flow:	$150,000
Current ACP:	$7,126,000
2026 through 2031 cash flow:	$12,900,000
Total project cost:	$14,300,000

Program 8082 – St. Bonifacius Lift Station/Forcemain Improvements

Map of Program 8062 projects in the Minnetrista area

Description

This project consists of a new lift station and a new dual forcemain. Ultimately, the dual 14-inch forcemains will be installed from L24 to the gravity discharge location in Lake Minnetonka Regional Park. This forcemain will connect to the previously installed Lotus Drive piping, a 2,600-foot segment of the forcemain that was constructed as part of Lotus Drive with the City of Minnetrista. The forcemain construction will start at the west end of Lotus Drive and end on the east side of CR-44. The remaining 1,000 feet of the Waconia forcemain will be upgraded with this project as well, to align with work previously completed in Phases 1 and 2 of that project.

Purpose and justification

The lift station needs rehabilitation based on an assessment of its condition and a history of its performance. The St. Bonifacius forcemain is approximately forty years old and near the end of its design life. The single 12-inch diameter cast iron pipe is just over three miles long. The forcemain parallels Highway 7 and discharges to a gravity interceptor located in Lake Minnetonka Regional Park. The new dual forcemain will provide reliable conveyance of wastewater, as well as capacity to serve long-term growth.

Program location

The active projects within this program are in the following Council districts: 3 and 4

Active projects in program

Project Number	Project Title
808200	St. Bonifacius Lift Station/Forcemain Rehabilitation (Parent Project)

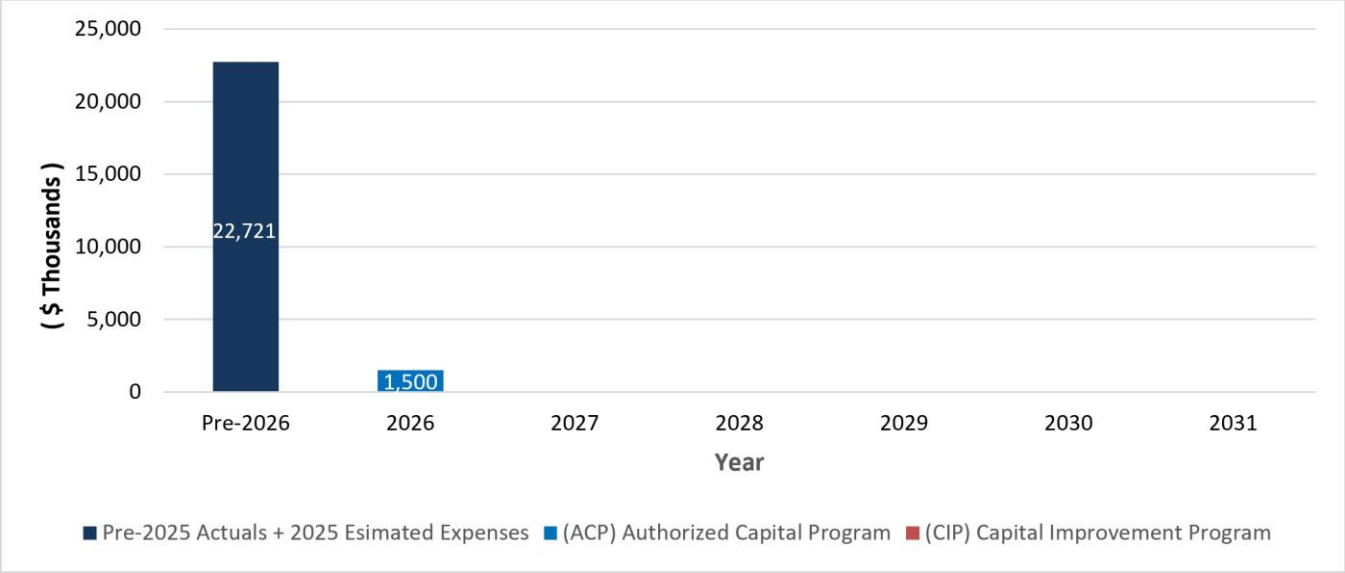
(Continued on next page)

Environmental Services 2026 through 2031 Capital Program

- Authorized Capital Program (ACP): $24,221,267
- Capital Improvement Plan (CIP): $0

Estimated program cash flow from 2026 through 2031

Note: the ACP is the total amount of all past and present authorizations including pre-2026 expenses.



Program 8086 – North Area Interceptor Improvements

Lining work being performed on the 4-NS-525 Interceptor in Coon Rapids

Description

The interceptor systems in Blaine, Brooklyn Park, Champlin, Circle Pines, Coon Rapids, Forest Lake, Fridley, Hugo, Lexington, Lino Lakes, Maple Grove, Mounds View, Spring Lake Park, and other north-area communities need rehabilitation and/or replacement. The project will rehabilitate existing interceptor facilities, including gravity sewers, forcemains, lift stations, and meter stations.

Purpose and justification

Inspections of the interceptors that serve the North Metro Area have revealed corrosion damage. The corrosion is extensive and has resulted in significant damage to the interior concrete surfaces of the interceptors and maintenance structures.

Program location

The active projects within this program are in the following Council districts: 1, 2, 8, 9, 10, 11, 12, and 13.

New program addition

Category	Details
Scope	Capacity assessment, cleaning, rehabilitation, and replacement of over 60,000 feet of 8 to 96-inch interceptor pipe.
Assets	6901, 7034, 7132, 7651, 7707, 8041, 8656, 1-MA-418, 1-PM-466, 1-RV-430, 1-RV-433, 1-VH-422, 1-VH-423, 1-VH-423A, 1-WL-416, 2-NB-100, 4-BP-540, 4-NS-521, 4-NS-521A, 4-NS-523
Communities	Anoka, Brooklyn Park, Centerville, Fridley, Little Canada, Mounds View, New Brighton, Plymouth, Roseville, St. Louis Park, Vadnais Heights, White Bear Lake, White Bear Township
Added budget	$67,400,000
Construction years	2026 through 2031

Active projects in program

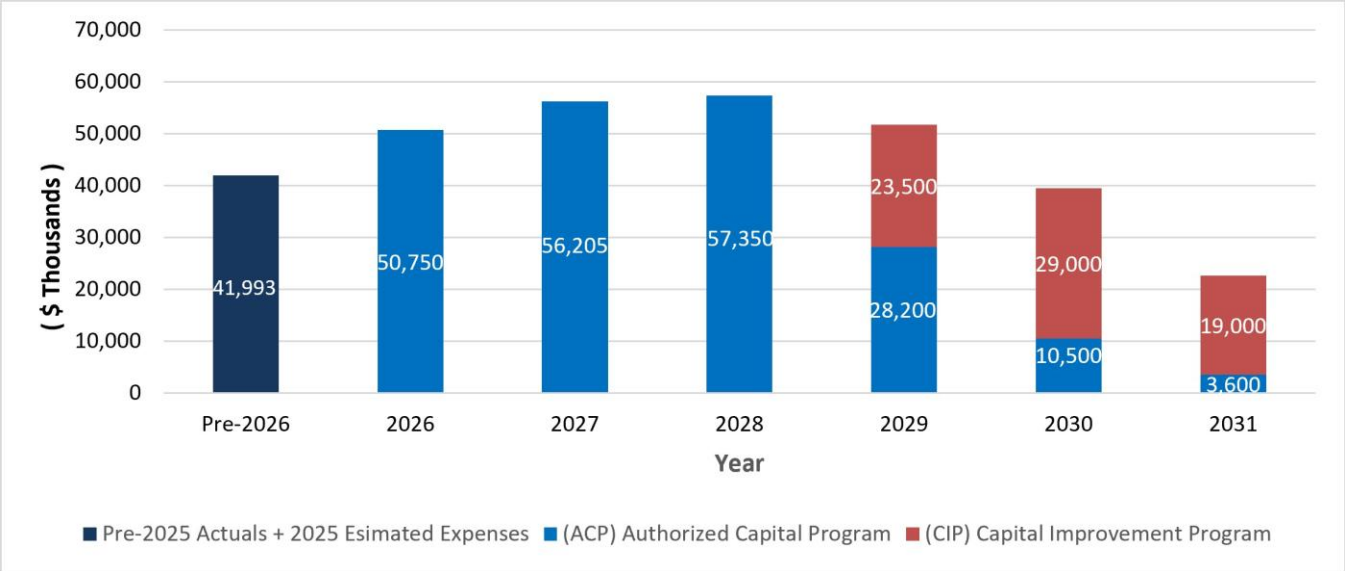
Project Number	Project Title
808600	North Area Interceptor (NAI) Rehabilitation (Parent Project)
808602	CAB Interceptor Improvements
808603/808627	Forest Lake Interceptor 7029 Rehabilitation
808604	Interceptor 7015-C Rehabilitation
808607	Fridley Liquid Waste Receiving Improvements
808609/808631	4-NS-525 Rehabilitation Phase 2
808611	1-RV-430 Rehabilitation
808612	4-NS-521 Rehabilitation
808613	Northeast Interceptor Hydraulic Modeling
808614	8151 and 7122 Siphon Rehabilitation
808616	Interceptor 1-CL-455 Rehabilitation
808617	9004-1 & 900415 Rehabilitation
808618	Interceptor 1-MW-410 Maintenance Hole Improvements
808619	Rogers Plant to Plant Sewer
808622	Maple Grove Interceptor Replacement
808624	New Rogers Lift Station
808626	Forcemain 7651 & 8041 Improvements
808687	Lake Elmo West Connection
808688	Lift Station L77 Improvements

Environmental Services 2026 through 2031 Capital Program

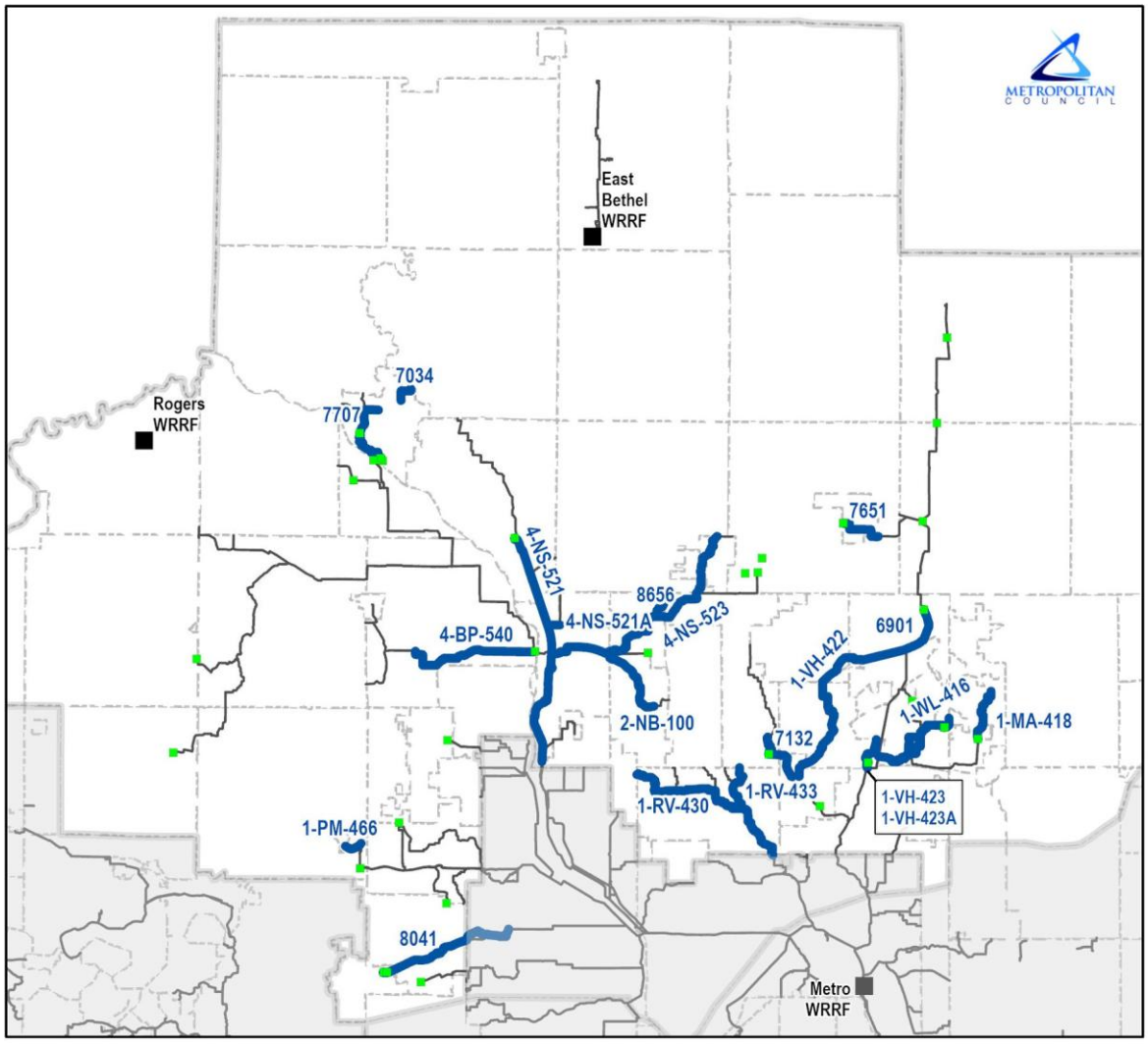
- Authorized Capital Program (ACP): $248,598,122
- Capital Improvement Plan (CIP): $ 71,500,000

Estimated program cash flow from 2026 through 2031

Note: the ACP is the total amount of all past and present authorizations including pre-2026 expenses.



North Area Program Map – New Projects



North Service Area Capital Improvement Projects (CIP)

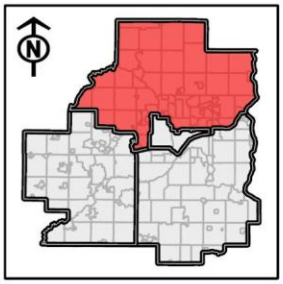
MCES Wastewater Treatment System

- Lift Stations
- Water Resource Recovery Facilities (WRRF)
- Interceptors
- Interceptors with CIP

Boundaries

- Community
- Service Area

0 2.5 5 7.5 10 Miles



North Area New Project Locations

CAB Interceptor Improvements
Program family 8086 **Project #808602**

Project location: Council district #2, City of Brooklyn Park

Map of project #808602 in Brooklyn Park between 108th Avenue North and 88th Avenue North

Project type
Interceptor Improvements

Objectives
Asset Preservation

Scope
Rehabilitate or replace 1.9 miles of severely corroded 54-inch and 66-inch reinforced concrete pipe (RCP). Rehabilitation methods using cured-in-place pipe (CIPP) and upsizing section some sections from 66” to 72”. Reconstruct deteriorating the junction structure.

Project need
Condition assessments of the CAB Interceptor have identified areas of deteriorated pipe in need of rehabilitation. Additionally, a system evaluation has identified areas of the CAB Interceptor in need of expansion to provide additional capacity to support regional growth.

Planning: 2025 through 2026	Design: 2026 through 2027	Construction: 2027 through 2029

Financial analysis

2026 cash flow:	$200,000
Current ACP:	$897,000
2026 through 2031 cash flow:	$23,300,000
Total project cost:	$23,584,000

Forest Lake Interceptor 7029 Rehabilitation

Program family 8086 **Project #808603 & #808627**

Project location: Council district #11, City of Forest Lake

Map of Project #808603 north of 180th Street North in Forest Lake

Project type
Interceptor Improvements

Objectives
Asset Preservation

Scope
Metropolitan Council Environmental Services (ES) owns and operates the Forest Lake Interceptor from Lift Station L01 to L78 in White Bear Lake. This project scope will include rehabilitation of about 11,000 feet of 36-inch reinforced concrete pipe (RCP) sewer interceptor from 202nd Street to 180th Street and the cleaning-only of about 7,000 ft of 36-inch sewer interceptor north of 202nd Street to Lift Station L01. The project scope also includes the rehabilitation of twenty maintenance holes and the replacement of six maintenance holes.

This project will include a dual barrel temporary conveyance system with temporary easements required for construction staging and access.

Project need
Interceptor 7029 was constructed in 1970 to convey flow from the City of Forest Lake. A condition assessment was completed in 2018 of the 36-inch RCP. The worst condition was between MH-99 and L02, where a 1,000-foot segment was identified as condition 4.5, and the remaining 7,000 feet as condition 4.

Project schedule:

Planning: 2023	Design: 2023 through 2025	Construction: 2026 through 2028

Financial analysis

2026 cash flow:	$200,000
Current ACP:	$20,430,000
2026 through 2031 cash flow:	$23,300,000
Total project cost:	$23,584,000

Interceptor 7015-C Rehabilitation

Program family 8086 **Project #808604**

Project location: Council district #2, City of Brooklyn Park, Interceptor 7015-C

Map of Project #808604 east of Bass Creek Park in Brooklyn Park

Project type
Interceptor Improvements

Objectives
Asset Preservation

Scope
Site 3 of the North Area Improvements. This project includes rehabilitation and/or replacement of approximately 10 feet of interceptor that was not lined during the 2007 rehabilitation project and rehabilitation of five structures. An extensive temporary conveyance system will be needed to repair this section.

Project need
Interceptor 7015-C in Brooklyn Park is a 36-inch reinforced concrete pipe (RCP) constructed in 1970 and lined in 2007. A five-to-ten-foot section of pipe was found unlined on the downstream end of Section 124009 near maintenance hole (MH) 45. Prior to lining, the condition of the pipe was 4.5.

Project schedule:

Planning: 2024	Design: 2025 through 2026	Construction: 2027

Financial analysis

2026 cash flow:	$1,500,000
Current ACP:	$717,700
2026 through 2031 cash flow:	$1,900,000
Total project cost:	$2,231,000

Fridley Liquid Waste Receiving Improvements

Program family 8086 **Project #808607**

Project location: Council district #2, City of Fridley

Fridley Liquid Waste Receiving Facility

Project type
Interceptor Improvements

Objectives
Asset Preservation, Quality Improvements

Scope
The loadout bay discharge pipe elevation needs to be lowered to allow customers to hook up more efficiently, provide larger rock traps, and allow replacement of existing flow meters. Access improvements are necessary to allow large tanker trucks into the bay. The maintenance structure that is used to dump during outages needs to be upgraded to include a grit chamber. An exterior vactor waste receiving area is being added to this site.

Project need
There are several deficiencies and issues with the receiving, process, and treatment at the Fridley Liquid Waste Receiving Facility. Several upgrades are necessary for this to be successfully used as a regional liquid waste receiving and maintenance facility.

Project schedule:

Planning: 2022 through 2023	Design: 2023 through 2026	Construction: 2027 through 2028

Financial analysis

2026 cash flow:	$200,000
Current ACP:	$1,500,000
2026 through 2031 cash flow:	$9,800,000
Total project cost:	$9,970,000

4-NS-525 Rehabilitation Phase 2

Program family 8086 **Project #808609 & #808631**

Project location: Council district #9, City of Coon Rapids

Map of Project #808631 in City of Coon Rapids

Project type
Interceptor Improvements

Objectives
Asset Preservation

Scope
The scope of work on this project will include rehabilitation of 7,800 linear feet of 48-inch reinforced concrete pipe (RCP) and 28 structures.

Project need
Condition assessments revealed poor condition pipe and maintenance structures.

Planning: 2023 through 2024	Design: 2025 - 2026	Construction: 2026 through 2028

Financial analysis

2026 cash flow:	$1,000,000
Current ACP:	$15,500,000
2026 through 2031 cash flow:	$14,300,000
Total project cost:	$14,300,000

1-RV-430 Rehabilitation

Program family 8086 **Project #808611**

Project location: Council district #10, City of Roseville

Map of project #608611 location near Highway 36 in Roseville

Project type
Interceptor Improvements

Objectives
Asset Preservation

Scope
1-RV-430 in Roseville will be rehabilitated using cured-in-place pipe (CIPP) lining. Structures along the corridor are also planned to be rehabilitated as needed.

Project need
The section of 1-RV-430 that is planned to be rehabilitated has been identified to be condition-4 pipe during CCTV inspections. Because of this it is critical that the pipe is rehabilitated to avoid potential failure.

Planning: 2024 through 2025	Design: 2025 through 2026	Construction: 2026 through 2027

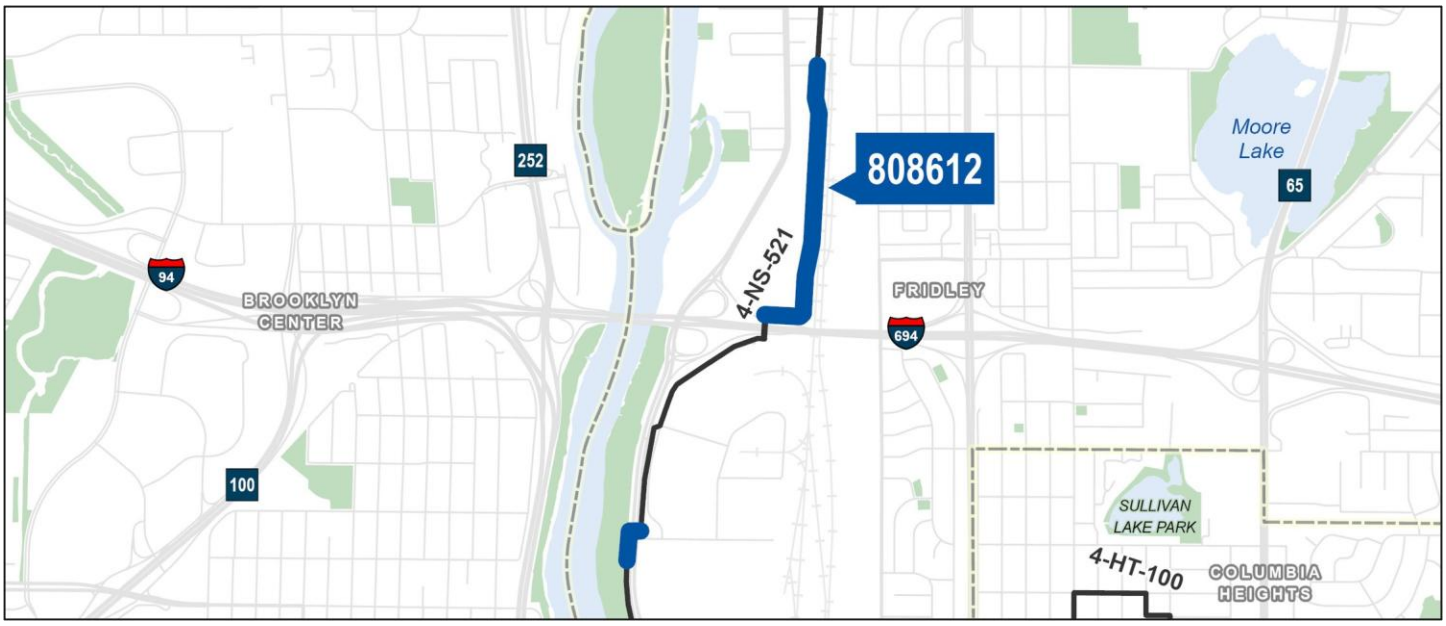
Financial analysis

2026 cash flow:	$300,000
Current ACP:	$2,160,500
2026 through 2031 cash flow:	$10,700,000
Total project cost:	$11,038,000

4-NS-521 Rehabilitation

Program family 8086 **Project #808612**

Project location: Council district #2, City of Fridley



Map of project #808612 location near Interstate 694 in Fridley.

Project type
Interceptor Improvements

Objectives
Asset Preservation

Scope
Two sections of 4-NS-521 in Fridley will be rehabilitated using cured-in-place pipe (CIPP) lining. Structures along the corridor are also planned to be rehabilitated as needed.

Project need
The two sections of 4-NS-521 that are planned to be rehabilitated have been identified as condition-4 pipe during CCTV inspections. Because of this it is critical that the pipe is rehabilitated to avoid potential failure.

Planning: 2023 through 2024	Design: 2026 through 2027	Construction: 2027 through 2028

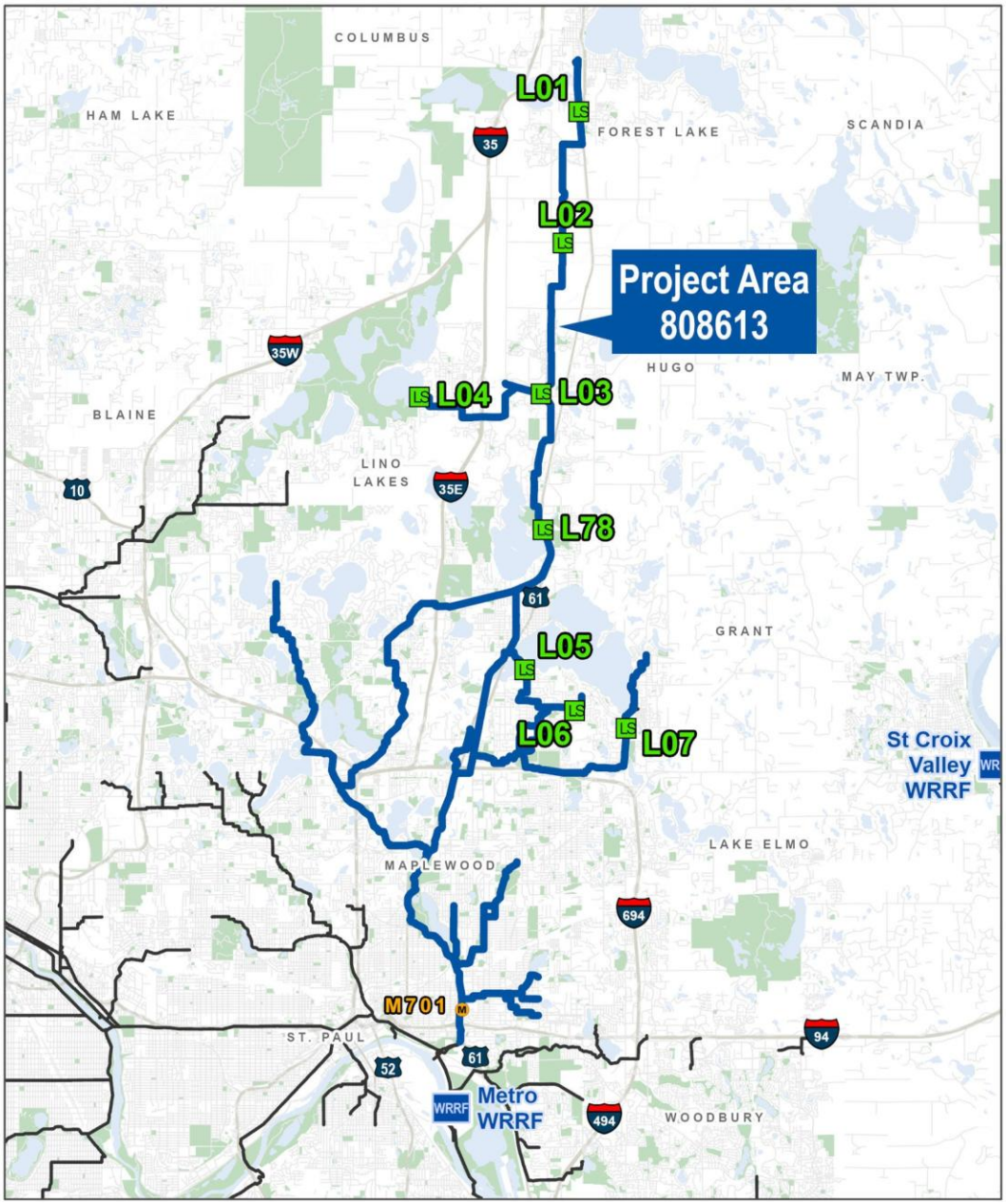
Financial analysis

2026 cash flow:	$500,000
Current ACP:	$4,373,500
2026 through 2031 cash flow:	$33,500,000
Total project cost:	$34,471,000

Northeast Interceptor Hydraulic Modeling

Program family 8086 **Project #808613**

Project location: Council district #10, 11, and 13, Cities in the vicinity of the Northeast Interceptor Area



Map of the Northeast Interceptor study area

Project type
Interceptor Hydraulic Model - Study

Objectives
Asset Preservation

Scope
This project is to build and calibrate a hydraulic model of the Northeast Interceptor from M-701 in Saint Paul to Forest Lake. The model will be calibrated for dry weather flow and wet weather flow, run future flow scenarios, and summarize findings and recommendations for 20-year and ultimate planning horizons.

Northeast Interceptor Hydraulic Modeling (continued)
Project #808613

Project need
This effort will help meet the overall project goals and outcomes to:

- Better understand capacity constraints, if any, and assess options to improve operations to mitigate those constraints.
- Develop informed decisions for investing, operating, and maintaining the conveyance system.
- Identify and assess areas with high rates of inflow and infiltration (I/I) and highest risk of sanitary sewer overflow.
- Develop strategies to reduce I/I contribution to wastewater flows to recover system capacity, maximize conveyance, and utilize storage in the existing ES system.
- Develop feasible alternatives for multiple future scenarios – including evaluation of cost-effectiveness – for capital projects for any of the goals above.

Planning: 2024 through 2026	Design: TBD	Construction: N/A

Financial analysis

2026 cash flow:	$200,000
Current ACP:	$865,000
2026 through 2031 cash flow:	$600,000
Total project cost:	$870,000

8151 and 7122 Siphon Rehabilitation

Program family 8086 **Project #808614**

Project location: Council district #3, City of Maplewood

Project #808614 – Site 1 in Maplewood in Keller Park on Interceptor 8151 and Site 2 in Maplewood along Highway 61 and Beam Ave North.

Project type
Interceptor Improvements

Objectives
Asset Preservation

Scope
Site 1 – 8151 - Due to the deterioration of the concrete in the pipe and structures, the project will include rehabilitation of the two 24-inch and one 42-inch ductile iron pipes using a cured-in-place pipe (CIPP) liner. The headhouse and tail house structure will include rehabilitation of the deteriorated concrete surface and installing protective coating system. New gates/valves will also be designed to better separate the flows between the siphon pipes and to allow better hydraulic performance.

Site 2 – 7122 – Project will include extension of the air jumper structures to maintain flow in the system and for proper access for cleaning and inspection. The flow control system for isolating pipe will also be added for adequate cleaning and televising.

Project need
Both the 8151 and 7122 sites are aging and require repair due to past pipe failures. 8151 condition assessment indicates that the head house and tail house structures are also in poor condition and should be rehabilitated to address age-related deterioration, improve access, and facilitate easier cleaning and future inspections. 7122 Air Jumper structures lack proper flow control to divert flow from one pipe to another and for isolating pipe for cleaning and inspection. Also, the hydraulics of the flow coming in are not proper and improvements to the structure would be needed to achieve proper self-cleaning velocities.

Planning: 2022 through 2023	Design: 2024 through 2026	Construction: 2026 through 2027

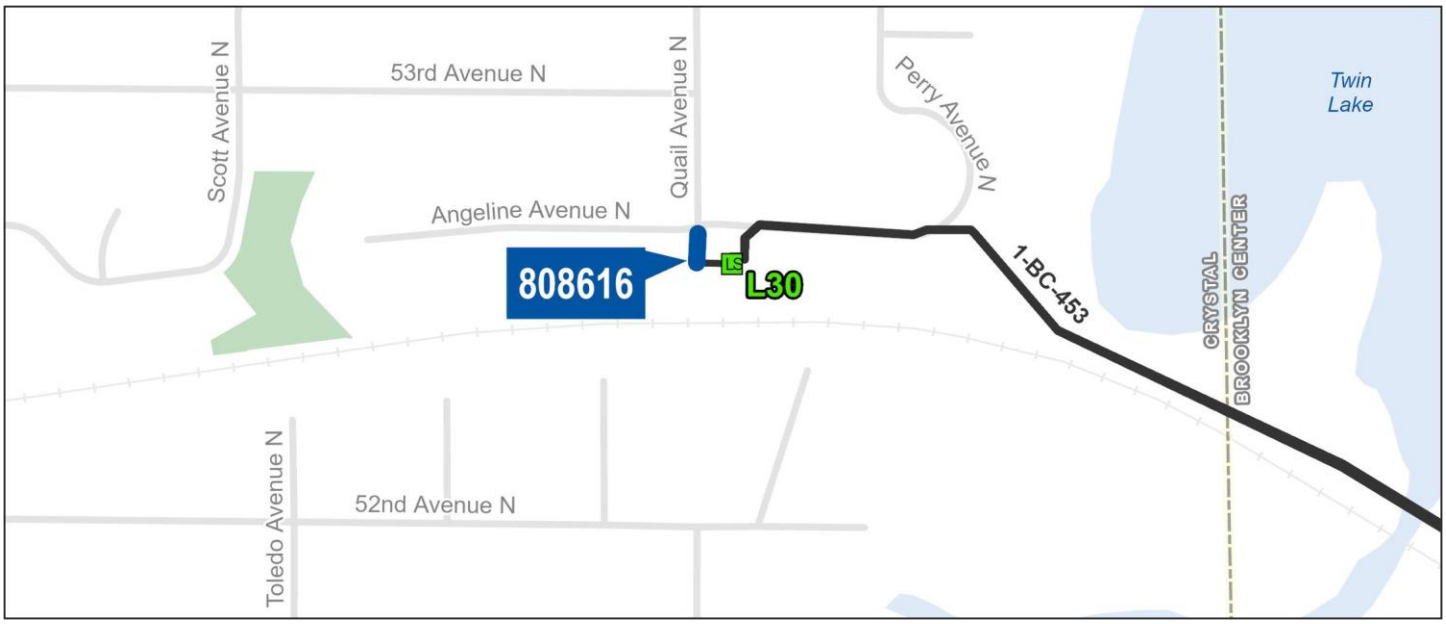
Financial analysis

2026 cash flow:	$4,000,000
Current ACP:	$5,706,000
2026 through 2031 cash flow:	$7,800,000
Total project cost:	$8,210,000

Interceptor 1-CL-455 Rehabilitation

Program family 8086 **Project #808616**

Project location: Council district #8, City of Crystal, Interceptor 1-CL-455



Map of Project #808616 near Angeline Avenue North and Quail Avenue North in Crystal

Project type
Interceptor Improvements

Objectives
Asset Preservation

Scope
Rehabilitate a section of pipe between Shaft 1 and MH-100 by abandoning the existing pipe and installing a new pipe in the new location. Two maintenance hole structures will also be rehabilitated, and one structure will be added.

Project need
Condition assessment of pipe shows the pipe in this section as poor condition and a sag in the pipe. There is severe grease build-up from the city pipe coming in, and a need for frequent cleaning.

Project schedule:

Planning: 2023	Design: 2024 through 2025	Construction: 2026

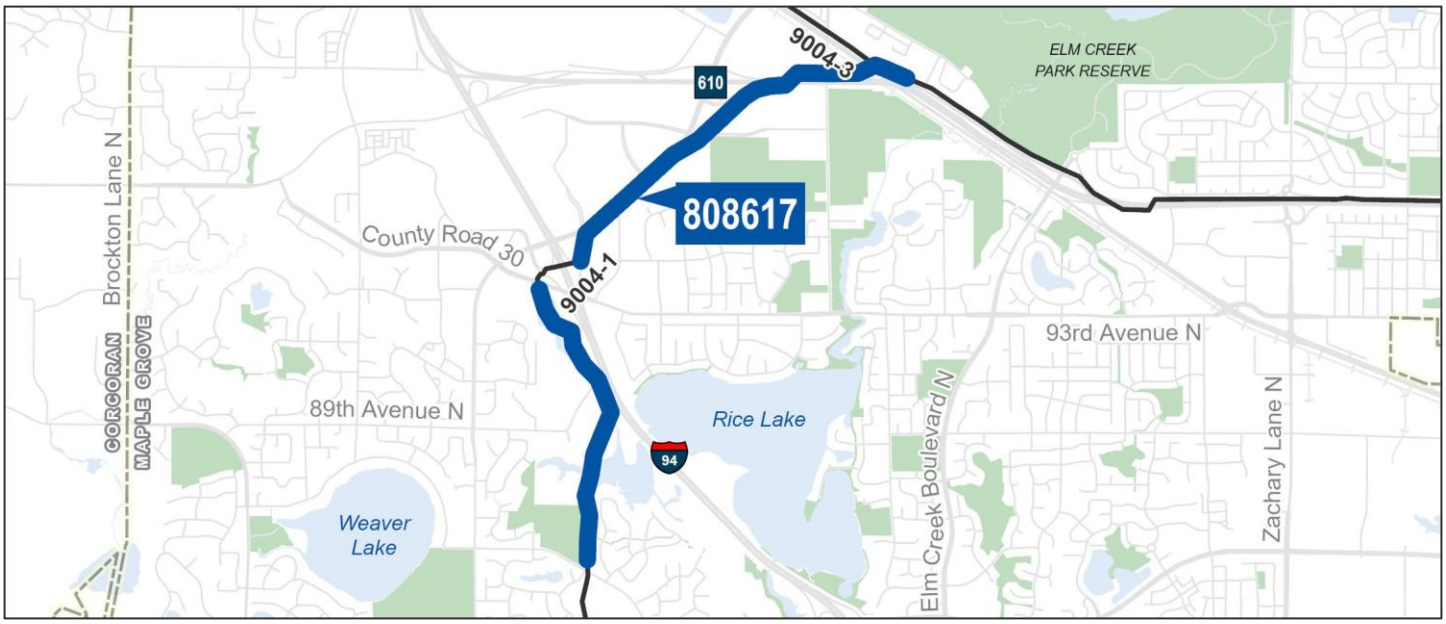
Financial analysis

2026 cash flow:	$1,000,000
Current ACP:	$2,899,500
2026 through 2031 cash flow:	$1,900,000
Total project cost:	$2,108,000

9004-1 & 900415 Rehabilitation

Program family 8086 **Project #808617**

Project location: Council district #1, City of Maple Grove



Map of Project #808617 along Maple Grove Parkway North in Maple Grove

Project type
Interceptor Improvements

Objectives
Asset Preservation

Scope
Rehabilitate 410 feet of severely corroded 48-inch reinforced concrete pipe (RCP).

Project need
Condition assessment of the interceptor has identified it as being severely corroded. Rehabilitation of the interceptor is needed to prevent further deterioration and potential failure.

Project schedule:

Planning: 2027	Design: 2027 through 2028	Construction: 2028 through 2030

Financial analysis

2026 cash flow:	$200,000
Current ACP:	$0
2026 through 2031 cash flow:	$2,400,000
Total project cost:	$2,500,000

Interceptor 1-MW-410 Maintenance Hole Improvements

Program family 8086 **Project 808618**

Project location: Council district 12, City of Maplewood

Photo of typical root intrusion and concrete maintenance hole cracking.

Project type
Interceptor

Objectives
Asset Preservation

Scope
Rehabilitate approximately 20 maintenance holes.

Project need
Continued root intrusion and concrete deterioration will eventually lead to failure unless repairs are made.

Planning: 2025 through 2026	Design: 2026 through 2027	Construction: 2027 through 2029

Financial analysis

2026 cash flow:	$2,000,000
Current ACP:	$800,000
2026 through 2031 cash flow:	$2,200,000
Total project cost:	$2,500,000

Rogers Plant to Plant Sewer
Program family 8086 **Project #808619**

Project location: Council district #1, City of Rogers

Map of project #808624 location near Interstate 94 and Highway 101 in Rogers

Project type
Interceptor Improvements

Objectives
System Expansion

Scope
The scope of the project is to build a new sanitary sewer to convey flow from the existing Rogers Wastewater Treatment Facility (WWTF) site to the Crow River Water Resource Recovery Facility (WRRF). The new sewer must be completed by 2029, as the Crow River WRRF will be ready by 2030.

Project need
Environmental Services purchased the existing Rogers Wastewater Treatment Facility in 2016. The site was purchased because the plant cannot be expanded as needed to meet future expected capacity and anticipated changes in regulatory requirements.

Planning: 2025	Design: 2025 through 2027	Construction: 2027 through 2029

Financial analysis

2026 cash flow:	$600,000
Current ACP:	$2,539,000
2026 through 2031 cash flow:	$9,600,000
Total project cost:	$10,200,000

Maple Grove Interceptor Replacement
Program family 8086 **Project #808622**

Project location: Council district #1, City of Maple Grove

Map of Project #808622 location east of Highway 101 and north of Highway 10 in Maple Grove

Project type
Interceptor Improvements

Objectives
Asset Preservation

Scope
Areas of Interceptor 900416 have been identified with varying degrees of deflection. The interceptor will be evaluated to determine which sections require rehabilitation or replacement.

Project need
To maintain the integrity of the system and to prevent potential damage to the environment due to pipe failure, sections of the interceptor must be repaired or replaced.

Project schedule:

Planning: 2019 through 2021	Design: 2021 through 2026	Construction: 2026 through 2027

Financial analysis

2026 cash flow:	$2,000,000
Current ACP:	$11,857,000
2026 through 2031 cash flow:	$13,200,000
Total project cost:	$14,005,000

New Rogers Lift Station

Program family 8086 **Project #808624**

Project location: Council district #1, City of Rogers

Map of project #808624 location near Interstate 94 and Highway 101 in Rogers

Project type
New Lift Station

Objectives
System Expansion

Scope
The scope of the project is to build a 1.5 MGD submersible lift station to convey flow from the lift station to the new gravity trunk sewer, which ultimately flows to the Crow River Water Resource Recovery Facility (WRRF). The new lift station must be completed by 2029, as the Crow River WRRF will be ready by 2030.

Project need
Environmental Services purchased the existing Rogers Wastewater Treatment Facility in 2016. The site was purchased because the plant cannot be expanded as needed to meet future expected capacity and anticipated changes in regulatory requirements.

Planning: 2025	Design: 2025 through 2027	Construction: 2027 through 2029

Financial analysis

2026 cash flow:	$250,000
Current ACP:	$2,300,000
2026 through 2031 cash flow:	$9,950,000
Total project cost:	$10,050,000

Forcemain 7651 & 8041 Improvements

Program family 8086 **Project 808626**

Project location: Council districts 8, 11, 15, 16; Cities of Apple Valley, Centerville, Hugo, Lakeville, Lino Lakes, St. Louis Park

Photo of forcemain corrosion

Project type
Interceptor

Objectives
Asset Preservation

Scope
Remove and replace forcemain 7651 and rehabilitate access structures on Interceptors 8041 and 9106.

Project need
Forcemain 7651 has completely failed and lift station L4 has no redundant forcemain. Forcemain 8041 connections to City of Minneapolis and St. Louis Park are needed to isolate piping for future maintenance. Continued corrosion of piping in forcemain 9106 access structures may lead to failure.

Planning: 2026 through 2027	Design: 2027 through 2028	Construction: 2028 through 2029

Financial analysis

2026 cash flow:	$100,000
Current ACP:	$1,250,000
2026 through 2031 cash flow:	$12,500,000
Total project cost:	$12,500,000

Lake Elmo West Connection

Program family 8086 **Project #808687**

Project location: Council Districts #12 and 13; Cities of Lake Elmo, Oakdale, and Woodbury

Project #808687 location along Hudson Road between I-694 and I-94

Project type
Interceptor Improvements

Objectives
System Expansion

Scope
Provide regional sewer service to southwestern Lake Elmo through a gravity interceptor extension from 1-WO-500. Includes the upgrade of an existing interceptor sewer crossing Interstate 94 to accommodate current and future growth in the service area.

Project need
This project will provide interceptor facilities to convey wastewater from southwestern Lake Elmo and eastern Oakdale to the Metro WRRF in Saint Paul. The project is needed to support growth in this eastern portion of the metropolitan area.

Planning: 2020	Design: 2021 through 2023	Construction: 2024 through 2026

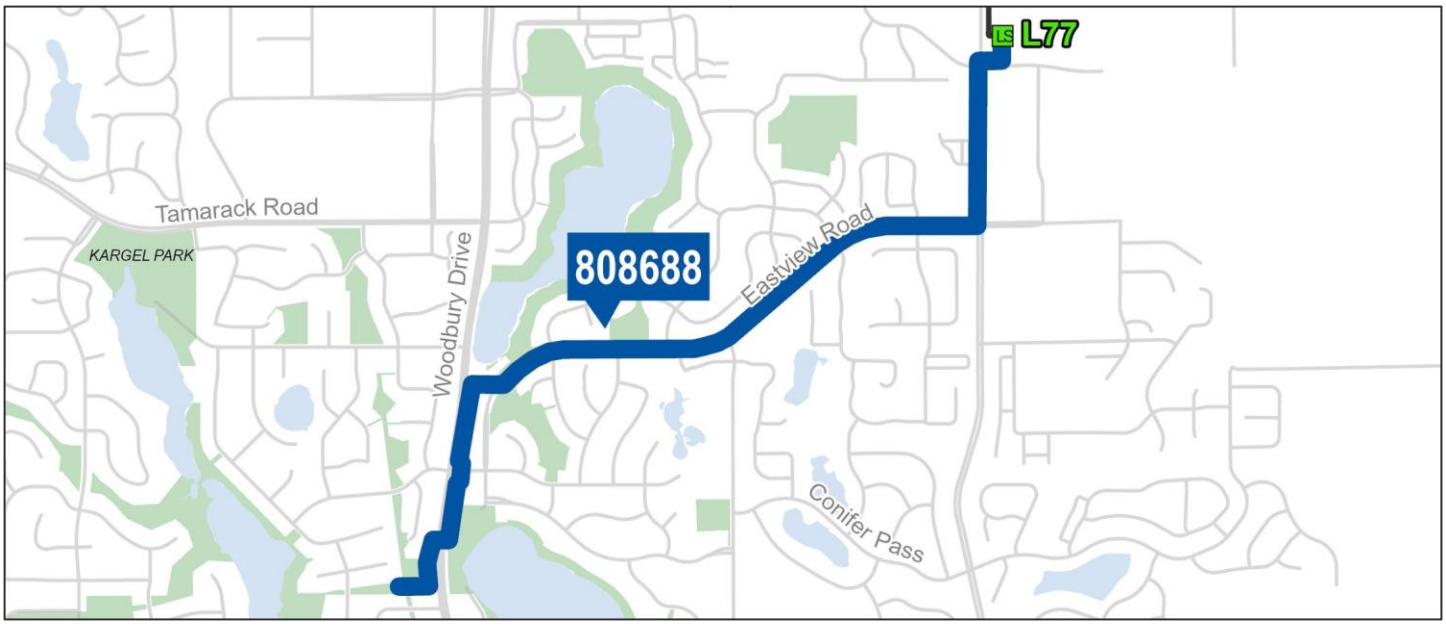
Financial analysis

2026 cash flow:	$19,000,000
Current ACP:	$35,527,000
2026 through 2031 cash flow:	$19,500,000
Total project cost:	$35,591,000

Lift Station L77 Improvements

Program family 8086 **Project #808688**

Project location: Council Districts #11 and 12, City of Woodbury



Project #808688 location along Eastview Road in Woodbury.

Project type
Lift Station and Interceptor Improvements

Objectives
System Expansion and Quality Improvements

Scope
Expand L77 lift station and connect to a larger forcemain. Work includes the addition of an emergency generator for the lift station.

Project need
Growth in northeastern Woodbury and southeastern Lake Elmo necessitates an expansion of pumping capacity at the L77 lift station. The forcemain was constructed earlier by the City of Woodbury during road improvements to serve flows from the L77 lift station, and an agreement entered into with the city for purchase of the infrastructure for regional use.

Planning: 2020 through 2021	Design: 2022 through 2023	Construction: 2024 through 2026

Financial analysis

2026 cash flow:	$4,200,000
Current ACP:	$7,324,000
2026 through 2031 cash flow:	$4,200,000
Total project cost:	$5,322,000

Program 8088 – Saint Paul Interceptor System Improvements

Left: Cured-in-Place (CIP) pipe liner being installed through a maintenance hole. Right: Large-diameter interceptor sewer pipe segments ready for installation.

Description

The interceptors located in Saint Paul, Maplewood, Roseville, New Brighton, Shoreview, and Vadnais Heights need rehabilitation and/or replacement due to age and deterioration. The project will rehabilitate existing interceptor facilities to ensure reliable service.

Purpose and justification

The Saint Paul Interceptor System Rehabilitation Program was developed to address areas of severe corrosion in the interceptor sewer system in Saint Paul and surrounding suburbs. Internal corrosion of concrete sewer pipes and structures creates structural weakness that creates a risk for collapse and potential loss of service or wastewater spills. Projects have been identified to rehabilitate the existing sewers using trenchless means, such as cured-in-place pipe or slip lining, where possible.

Program location

The active projects within this program are in the following Council districts: 10, 13, and 14

New program additions

Category	Details
Scope	Rehabilitation of 4,000 feet of 15 to 48-inch interceptor pipe.
Assets	1-SP-217, 1-SP-215, 1-SP-224, 8851, 1-SP-220, 1-SP-200, 1-SP-230 (includes meter M058)
Communities	Saint Paul
Added budget	$4,000,000
Construction years	2029 through 2031

Active projects in program

Project Number	Project Title
808800	Saint Paul Interceptor System (SPIS) Rehabilitation (Parent Project)
808811	Riverview Siphon 1-SP-230 Improvements
808812	Greater Eastside Saint Paul Rehabilitation

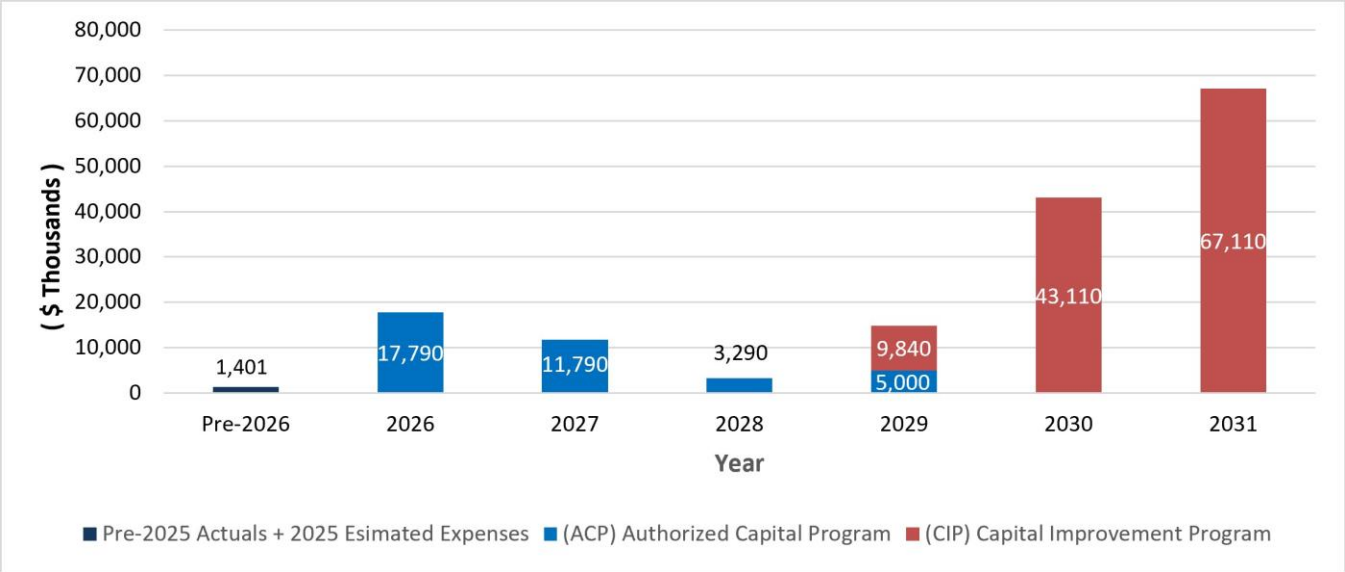
Project Number	Project Title
808861	Grass Lake Interceptor Rehabilitation
808864	West Side Sandstone Tunnel Rehabilitation
808879	1-MS-100 Condition Assessment
808882	1-MS-100 Rehabilitation Feasibility Study
808884	Saint Paul Interceptor System Study

Environmental Services 2026 through 2031 Capital Program

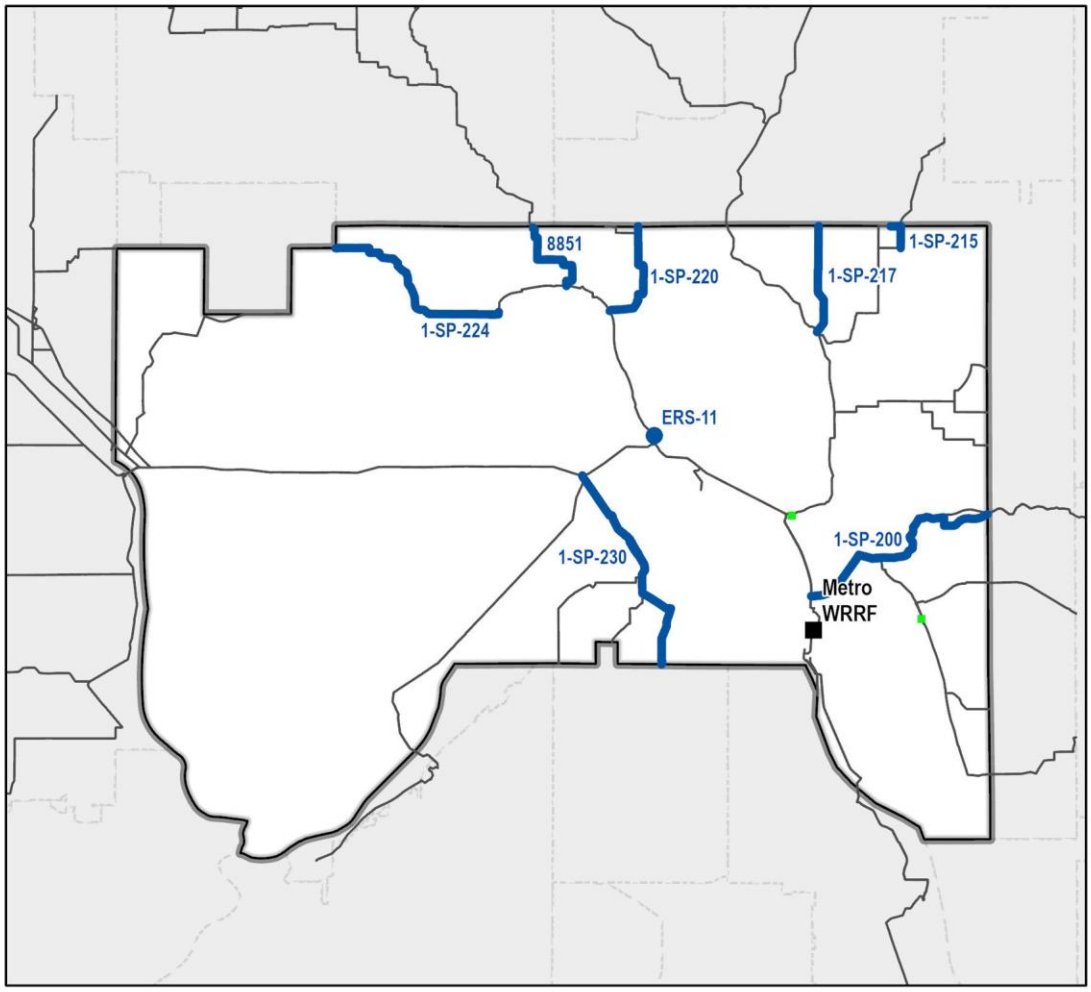
- Authorized Capital Program (ACP): $39,271,247
- Capital Improvement Plan (CIP): $120,060,000

Estimated program cash flow from 2026 through 2031

Note: the ACP is the total amount of all past and present authorizations including pre-2026 expenses.



Saint Paul Area Program map – New Projects



St. Paul Capital Improvement Projects (CIP)

MCES Wastewater Treatment System

- Lift Stations
- Water Resource Recovery Facilities (WRRF)
- Interceptors

- Interceptors with CIP
- Structures with CIP

Boundaries

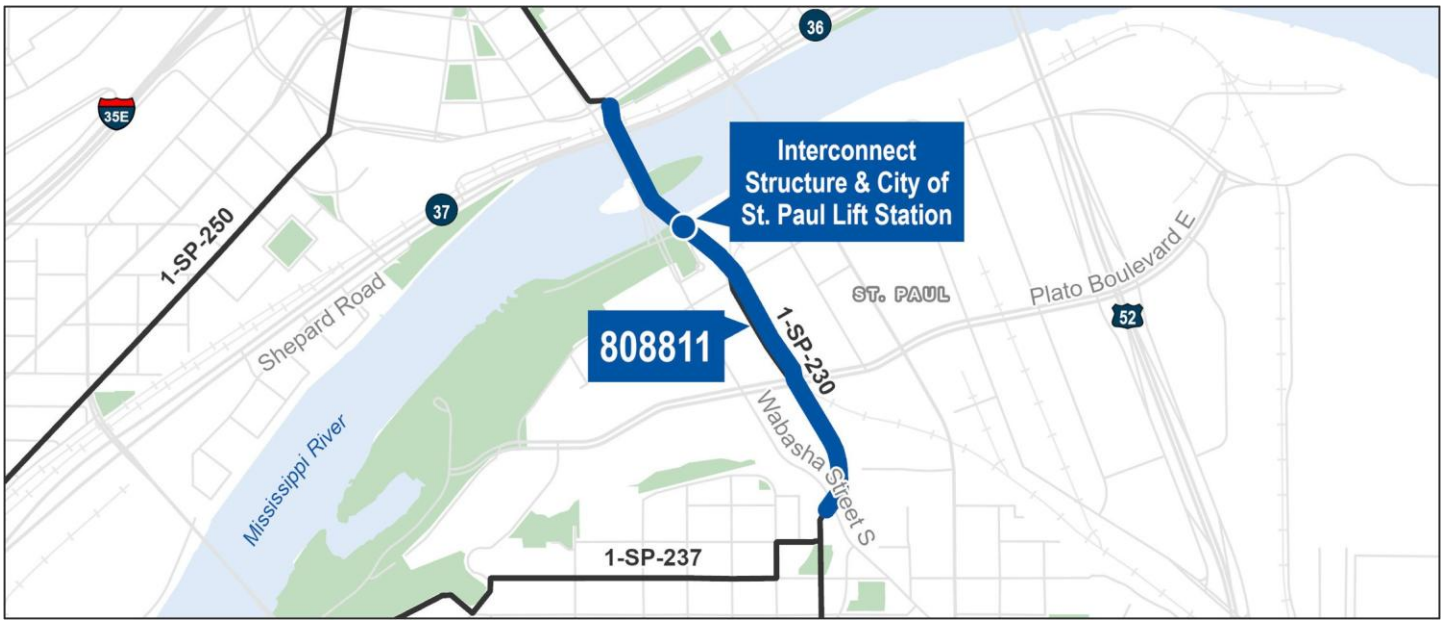
- Community
- St. Paul

0 1 2 3 4 Miles

Riverview Siphon 1-SP-230 Improvements

Program family 8088 **Project #808811**

Project location: Council District #13, City of Saint Paul



Map of Project #808811 along Wabasha Street in Saint Paul

Project type
Interceptor Improvements

Objectives
Asset Preservation

Scope
Improvements to the headhouse and tailhouse as well as the construction of a fourth pipe across the river.

Project need
Flow monitoring and a system evaluation have determined that the three pipes under the Mississippi River are limited in capacity during peak flows. There is also limited ability to inspect the three pipes, which places the facility under greater risk.

Planning: 2025 through 2026	Design: 2026 through 2028	Construction: 2028 through 2030

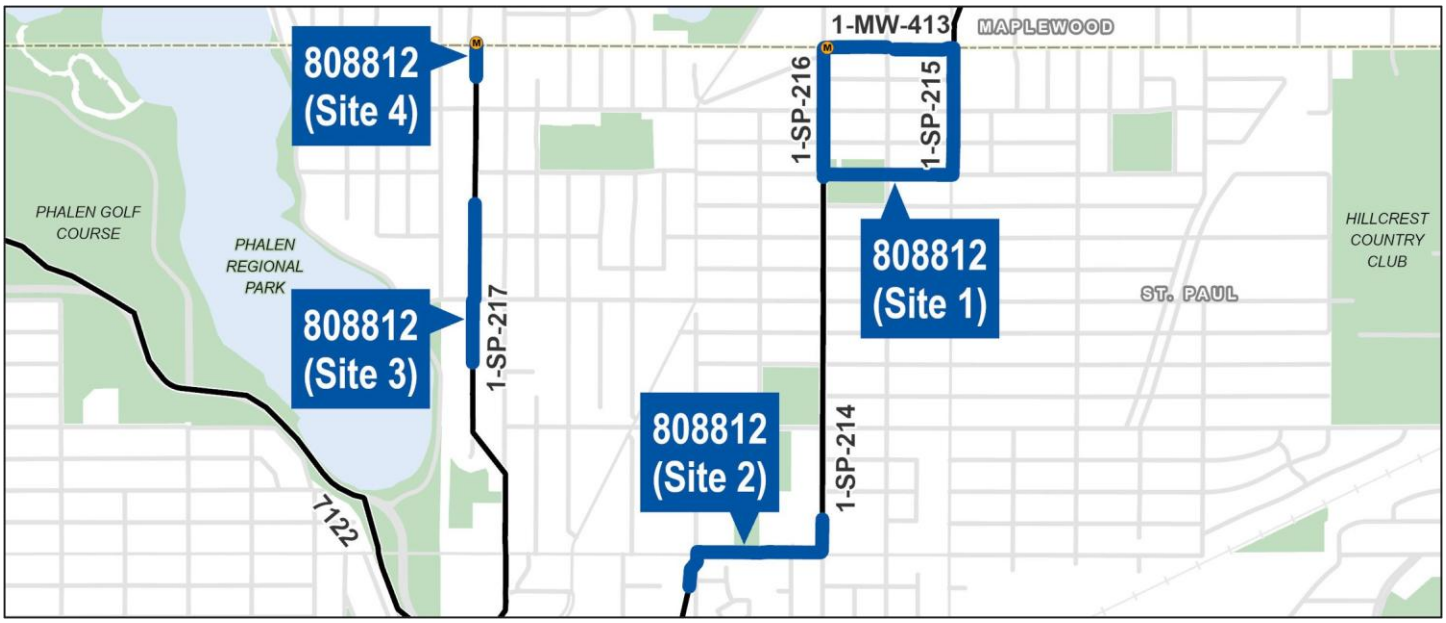
Financial analysis

2026 cash flow:	$200,000
Current ACP:	$800,000
2026 through 2031 cash flow:	$33,800,000
Total project cost:	$33,900,000

Greater Eastside Saint Paul Rehabilitation

Program family 8088 **Project #808812**

Project location: Council district #13, City of Saint Paul



Map of project #808812 just east of Phalen Regional Park in Saint Paul

Project type
Interceptor Rehabilitation

Objectives
Asset Preservation

Scope
The project will use cured-in-place pipe (CIPP) fir approximately 6,800 feet of pipe across 3 sites near Larpenteur Avenue, White Bear Avenue, Kennard Street, and Maryland Avenue East. It also includes slip lining oversized pipe, maintenance hole rehabilitation using fiberglass inserts, or complete replacement. M011 will be moved to the south side of Larpenteur on McAfee Street and the flume at M010 will be reset to accommodate for the new liner.

Project need
The reinforced concrete pipe at all sites is showing signs of deterioration such as cracking and ribbing. M011 has a poor hydraulic approach and is currently in the way of a bike path that Ramsey County will be constructing in 2027.

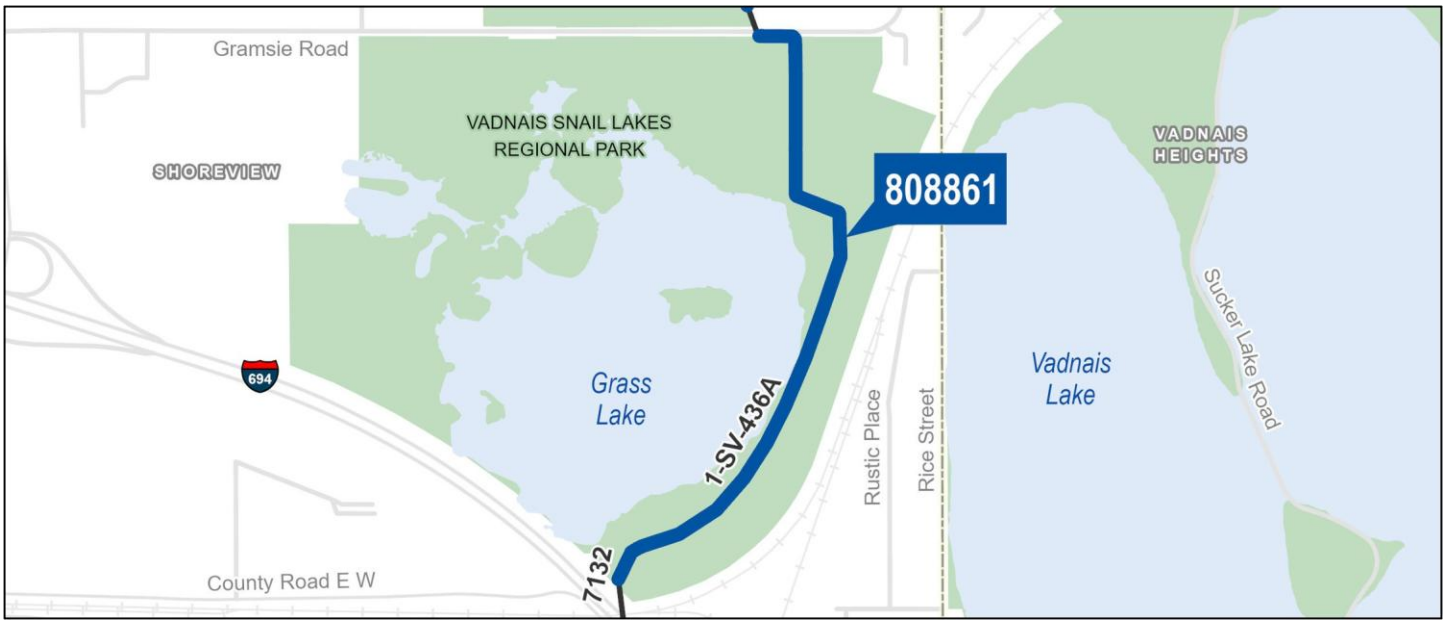
Planning: 2025	Design: 2025 through 2027	Construction: 2027 through 2029

Financial analysis

2026 cash flow:	$150,000
Current ACP:	$1,133,000
2026 through 2031 cash flow:	$9,450,000
Total project cost:	$9,500,000

Grass Lake Interceptor Rehabilitation
Program family 8088 **Project #808861**

Project location: Council district #10, City of Shoreview



Map of Project #808861 location along the east side of Grass Lake in Shoreview

Project type
Interceptor Improvements

Objectives
Asset Preservation

Scope
Realign MH-1 to MH-15 to improve access and reduce inflow and infiltration (I/I) along Grass Lake.

Project need
To relocate the interceptor to provide year-round access, prevent flooded structures, and prevent I/I as lake levels continue to rise.

Planning: 2019	Design: 2020 through 2025	Construction: 2026 through 2028

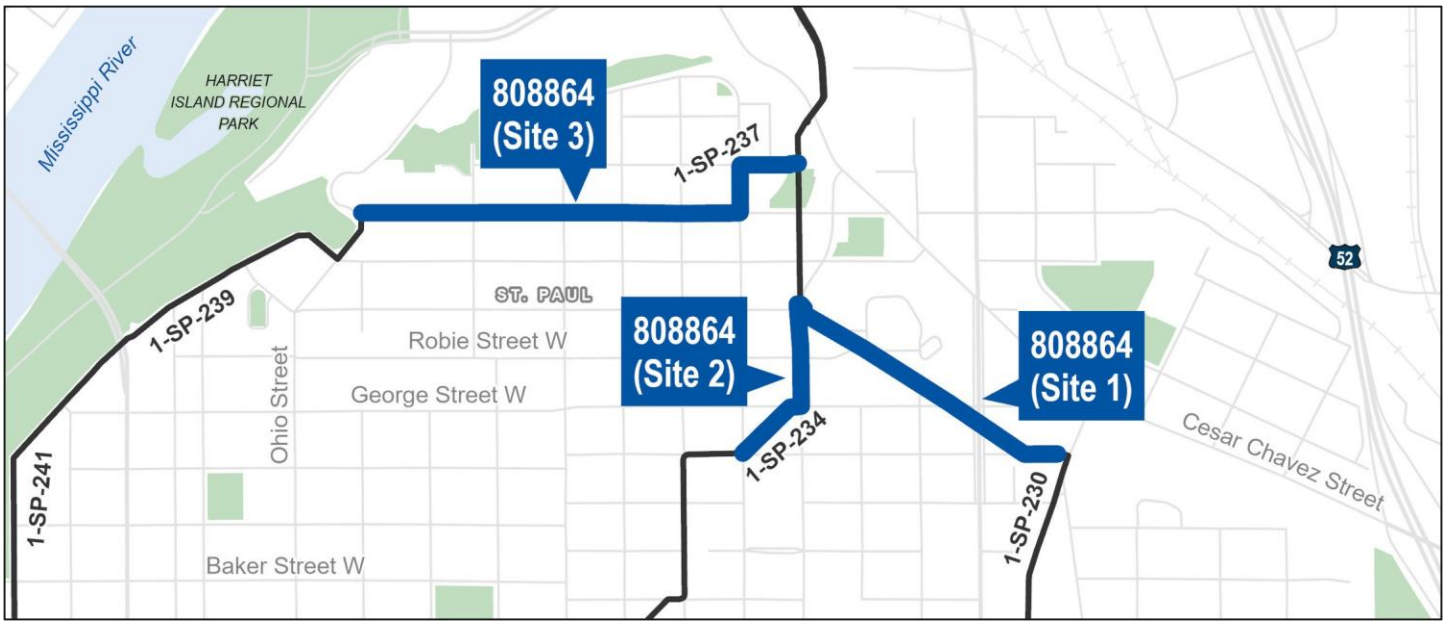
Financial analysis

2026 cash flow:	$15,000,000
Current ACP:	$2,060,500
2026 through 2031 cash flow:	$20,500,000
Total project cost:	$22,534,000

West Side Sandstone Tunnel Rehabilitation

Program family 8088 **Project #808864**

Project location: Council district #13, City of Saint Paul



Map of project #808864 locations near City of Saint Paul's West Side

Project type
Interceptor Improvements

Objectives
Asset Preservation, Quality Improvements

Scope
This project consists of constructing 5,000 linear feet of local sanitary sewer parallel to Site 2 interceptor 1-SP-234, and Site 3 interceptor 1-SP-237, repairing eroded sandstone tunnels, and improving access at the junction of 1-SP-230 and 1-SP-234 by adding a new structure.

Project need
97 privately owned drift tunnel connections have had little to no maintenance since originally being constructed between 1886 and 1889. Condition assessments completed by confined space entries in these tunnels revealed varied amounts of erosion in the tunnels' shoulders and crowns, fractures, missing bricks, and failed connections. This project will reduce system inflow and infiltration (I/I), increase system reliability, and reduce risk to Council and private properties that are currently directly connected to the tunnels.

.

Planning: 2024 through 2025	Design: 2026 - 2027	Construction: 2027 - 2029

Financial analysis

2026 cash flow:	$150,000
Current ACP:	$1,980,000
2026 through 2031 cash flow:	$3,150,000
Total project cost:	$3,350,000

1-MS-100 Condition Assessment

Program family 8088 **Project #808879**

Project location: Council districts #13 and 14; City of Saint Paul

1-MS-100 project extent

Project type
Interceptor Condition Assessment or Study

Objectives
Asset Preservation

Scope
Completion of a condition assessment for 1-MS-100. This work includes groundwater and subdrain monitoring, closed circuit television (CCTV)/multi-sensor inspection (MSI), geophysical assessment to understand void extents, georeferencing including tying a 3-D scan of the interceptor to surveyed points, and possible invert inspection.

Project need
1-MS-100 is a deep tunnel interceptor sewer collecting flows from parts of Saint Paul, Minneapolis, and over 40 communities upstream of Minneapolis. Previous inspections and evaluations have identified segments of 1-MS-100 that are experiencing concrete corrosion, large-scale infiltration points, possible exposed reinforcing steel, and void space above the concrete pipe. The condition of 1-MS-100 combined with its criticality to daily operations make improvements to 1-MS-100 a high priority where an updated condition assessment is the first step.

Planning: 2026 through 2026	Design: 2026 through 2027	Construction: 2027 through 2029

Financial analysis

2026 cash flow:	$1,500,000
Current ACP:	$0
2026 through 2031 cash flow:	$11,600,000
Total project cost:	$11,600,000

1-MS-100 Rehabilitation Feasibility Study

Program family 8088 **Project #808882**

Project location: Council districts #13 and 14; City of Saint Paul

1-MS-100 project extent

Project type
Interceptor Rehabilitation

Objectives
Asset Preservation

Scope
Evaluation of the 1-MS-100 interceptor and rehabilitation of identified interceptor sections. System evaluation includes a review of temporary conveyance options and resiliency improvements.

Project need
1-MS-100 is a deep tunnel interceptor sewer collecting flows from parts of Saint Paul, Minneapolis, and over 40 communities upstream of Minneapolis. Previous inspections and evaluations have identified segments of 1-MS-100 that are experiencing concrete corrosion, large-scale infiltration points, possible exposed reinforcing steel, and void space above the concrete pipe. The condition of 1-MS-100 combined with its criticality to daily operations make improvements to 1-MS-100 a high priority.

Planning: 2025 through 2028	Design: N/A	Construction: N/A

Financial analysis

2026 cash flow:	$1,000,000
Current ACP:	$5,111,000
2026 through 2031 cash flow:	$85,000,000
Total project cost:	$206,000,000

Saint Paul Interceptor System Study

Program family 8088 **Project #808884**

Project location: Council district #13 and 14, City of Saint Paul

Photo of a LaserFlow flow monitor inside ES interceptor pipe

Project type
Study

Objectives
Asset Preservation

Scope
Provide a long-term study (approximately 5 years) of the regional wastewater system in the City of Saint Paul. The consultant will install and maintain temporary flow meters across the city for two years and use that data to build a hydraulic model of the ES system. Other tasks include identification of areas with high inflow and infiltration (I/I), potential for sewer overflow, and limited hydraulic capacity. Project will also replace the M700 series planning meters which are reaching the end of their useful life.

Project need
To assist in developing a quantitative understanding of flow conditions, define existing and future system limitations, and outline improvements that may be necessary for long-term reliability of the regional system.

Planning: 2023 through 2027	Design: N/A	Construction: N/A

Financial analysis

2026 cash flow:	$500,000
Current ACP:	$1,980,000
2026 through 2031 cash flow:	$1,700,000
Total project cost:	$3,300,000

Program 8090 – Interceptor System Support

Vactor truck used to clean debris from interceptors

Description

This program includes miscellaneous projects to rehabilitate failing facilities, address inflow and infiltration (I/I) sources, and address general needs of the interceptor system not programmed into a region- or facility-specific program. This program also includes additional condition assessment work to complement the internal inspections work completed by Operations, odor control improvements, city coordination for street improvement projects, and office space planning and design to accommodate all staff assigned to the Regional Maintenance Facility.

Purpose and justification

Periodic condition assessments for interceptor facilities have revealed facilities requiring immediate projects. In addition, system-wide administrative and management work is needed to efficiently operate the interceptor system.

Program location

The active projects within this program are in the following Council districts: All

New program additions

Category	Details
Scope	Deep tunnel interceptor inspection, city coordination, odor program.
Assets	Varies
Communities	Metro-Wide
Added budget	$30,900,000
Construction years	2028 through 2029

Active projects in program

Project Number	Project Title
809099	Funds for Future Interceptor Rehabilitation Projects (Parent Project)
809089	Special Interceptor Inspections

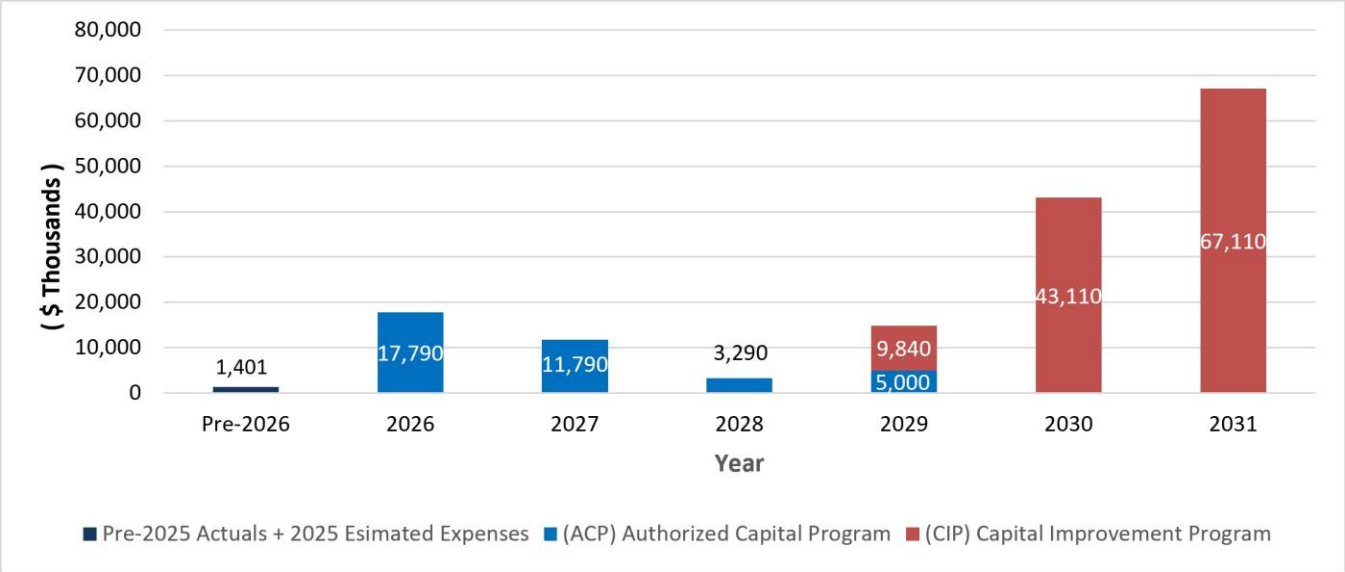
Project Number	Project Title
809095	Regional Maintenance Facility (RMF) Expansion
809098	Maintenance Access Structure Rehabilitation
819016	Large Diameter Interceptor Cleaning – Phase 2
819020	Hopkins System Improvements, East Isles Forcemain, Contract H
819024	RMF Lower-Level Parking Lot

Environmental Services 2026 through 2031 Capital Program

- Authorized Capital Program (ACP): $72,672,572
- Capital Improvement Plan (CIP): $40,000,000

Estimated program cash flow from 2026 through 2031

Note: the ACP is the total amount of all past and present authorizations including pre-2026 expenses.



Special Interceptor Inspections
Program family 8090 **Project #809089**

Project location: Project location varies across seven-county Twin Cities Metro Area

UTV equipped with tracks and CCTB equipment

Project type
Condition Assessment

Objectives
Asset Preservation

Scope
Work is identified each year during the planning for the sewer televising work that is to be completed. Work that cannot be handled in-house is contracted out. Less than 20% of the work in the last two years has been contracted.

Project need
Environmental Services maintains critical infrastructure throughout the greater metropolitan area, and not all of it is accessible by using the standard equipment that Interceptor Operations owns. Specialized equipment, permits, and coordination with the communities are needed to complete the work.

Planning: Ongoing	Design: N/A	Construction: N/A

Financial analysis

2026 cash flow:	$200,000
Current ACP:	$1,500,000
2026 through 2031 cash flow:	$30,900,000
Total project cost:	$32,000,000

Regional Maintenance Facility (RMF) Expansion

Program family 8090 **Project #809095**

Project location: Council district #15, City of Eagan, 3565 Kennebec Drive

Regional Maintenance Facility (RMF)

Project type
Building Improvements

Objectives
Quality Improvement

Scope
This project includes remodeling RMF to address the inadequate women's locker room and bathrooms and expansion to include the Air Quality lab and accommodate current staffing along with planned growth. The building improvements will address ADA deficiencies. Finally, a large meeting room is being planned that could share space with other amenities for consistent use and serve as an emergency operations center.

Project need
RMF was constructed in 1986, with improvements made in 2012 for expansion to accommodate additional staff. Currently, several work areas require improvements, including Dispatch, Computer Room, and women's facilities and improvements to comply with the ADA. Furthermore, ES is no longer going to be leasing space at Metro 94 for the Air Quality department, and RMF has been identified as a preferred location.

Planning: 2019	Design: 2019 through 2022	Construction: 2022 through 2025

Financial analysis

2026 cash flow:	$206,000
Current ACP:	$27,662,000
2026 through 2031 cash flow:	$206,000
Total project cost:	$27,662,000

Maintenance Access Structure Rehabilitation

Program family 8090 **Project #809098**

Project location: Various

Maintenance Hole Rehabilitation

Project type
Interceptor Improvements

Objectives
Asset Preservation

Scope
This is an ongoing project used to provide design services for miscellaneous small scale maintenance access structure improvements identified during routine inspections or as part of work conducted by other agencies. Actual rehabilitation services are typically conducted under change order to existing construction contracts or through cooperative agreements with agencies.

Project need
Maintenance access structures need to be rehabilitated to allow operation of interceptors, often on short notice to coordinate with road work by other agencies.

Planning: 2023 through 2028	Design: 2023 through 2028	Construction: N/A

Financial analysis

2026 cash flow:	$500,000
Current ACP:	$2,462,500
2026 through 2031 cash flow:	$2,462,000
Total project cost:	$2,462,000

Large Diameter Interceptor Cleaning – Phase 2

Program family 8090 **Project #819016**

Project location: Council districts #6, 7, 8, 13, and 14, Cities of Minneapolis and Saint Paul, Neighborhoods of St. Anthony West, Prospect Park, Downtown, Marcy Holmes, North Loop, Summit Hill

Contractor's cleaning equipment layout

Project type
Interceptor Improvements

Objectives
Asset Preservation

Scope
Clean seven separate segments of Interceptors 1-MN-300, 1-MN-310, 1-MN-320, 1-SP-250, and 1-MS-100. These are deeper or larger tunnels that cannot otherwise feasibly be completed by Council Operations staff.

Project need
Interceptors need to be cleaned to restore original design capacity and minimize the potential for service interruptions.

Planning: 2020 through 2021	Design: 2020 through 2021	Construction: 2021 through 2026

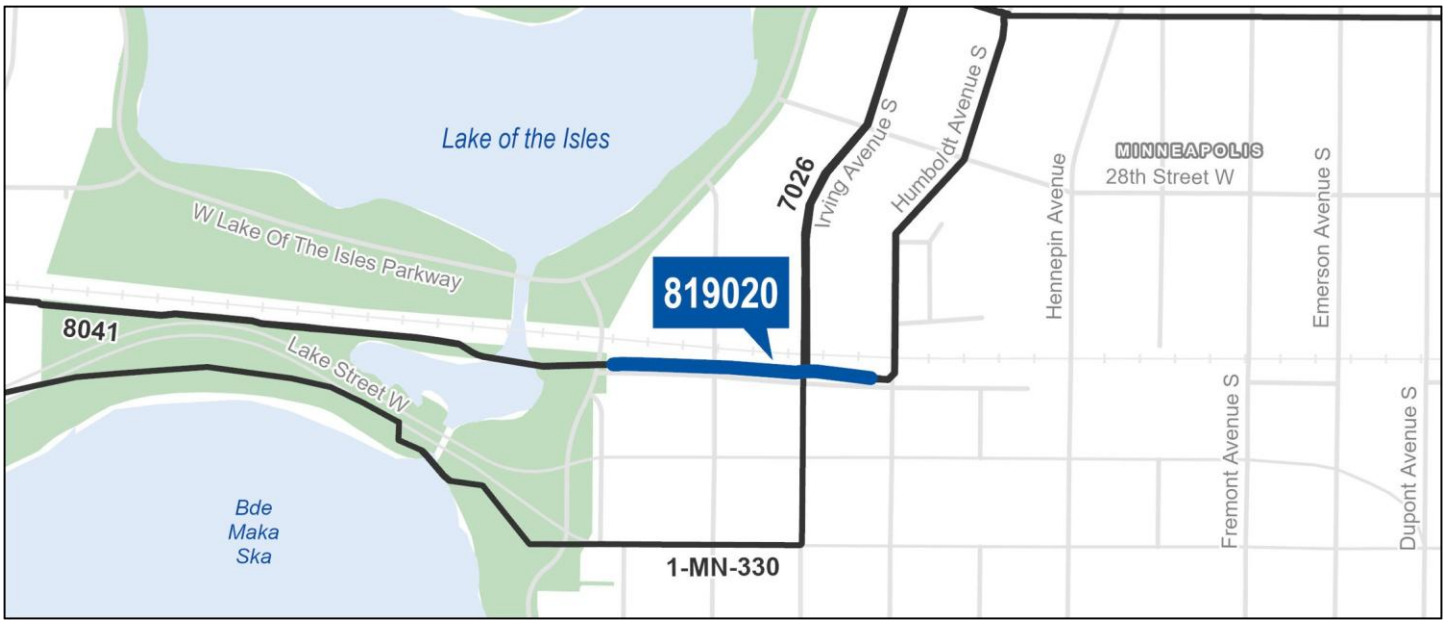
Financial analysis

2026 cash flow:	$3,600,000
Current ACP:	$13,010,000
2026 through 2031 cash flow:	$7,200,000
Total project cost:	$14,667,000

Hopkins System Improvements, East Isles Forcemain, Contract H

Program family 8090 **Project #819020**

Project location: Council district #6, City of Minneapolis



The final segment of the Hopkins System forcemain to be replaced with dual PVC forcemains within The Mall Park.

Project type
Interceptor Improvements

Objectives
Asset Preservation

Scope
Replacement of 30-inch concrete forcemain with dual 24-inch PVC forcemains.

Project need
Provide corrosion resistant forcemain pipe with redundancy for system reliability.

Planning: 2010 through 2012	Design: 2022 through 2023	Construction: 2027

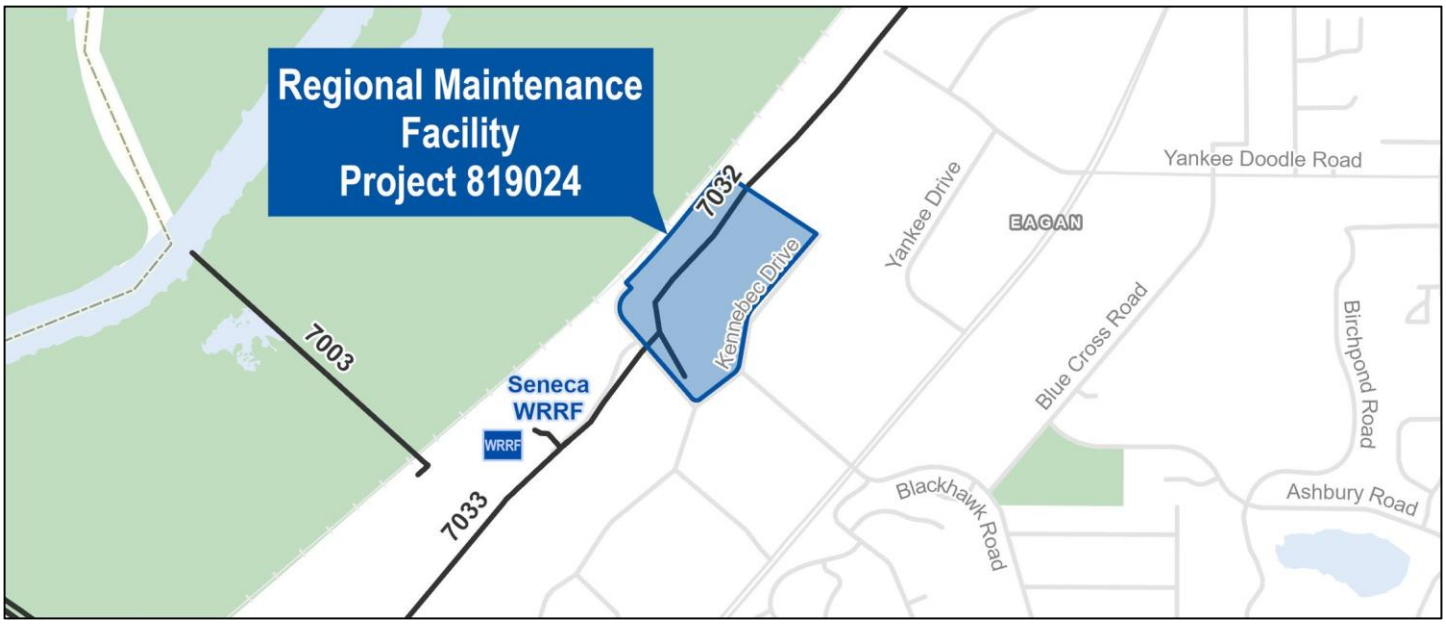
Financial analysis

2026 cash flow:	$1,600,000
Current ACP:	$4,575,000
2026 through 2031 cash flow:	$3,100,000
Total project cost:	$3,621,000

RMF Lower-Level Parking Lot

Program family 8090 **Project #819024**

Project location: Council district #15, City of Eagan



Map of project #819024 location at Regional Maintenance Facility in Eagan.

Project type
Building Parking Lot

Objectives
Asset Preservation

Scope
The lower-level parking lot at the Regional Maintenance Facility (RMF) needs to be removed and replaced. This includes new pavement, curb and gutter, and erosion control.

Project need
The RMF lower-level parking lot needs replacement, due to age and use.

Planning: 2025	Design: 2025-2026	Construction: 2026

Financial analysis

2026 cash flow:	$1,000,000
Current ACP:	$2,000,000
2026 through 2031 cash flow:	$1,500,000
Total project cost:	$2,000,000

Program 8092 – Minneapolis Interceptor System Improvements

Photo collage including 4th Street tunnel repairs and the inside of a tunnel constructed in the 1930s

Description

This program includes facility planning and new projects to address aging infrastructure within or contributary to the City of Minneapolis. Potential projects include:

- Interceptor 1-MN-303 Pipe-in-Pipe Rehabilitation
- Interceptor 1-MN-320 Improvements

Purpose and justification

Interceptors in Minneapolis were constructed as early as 1891 and included tunnels constructed in the 1930s to intercept the old, combined sewers. Additional planning work is required to both identify projects needed to address capacity and to repair existing facilities. These projects will be prioritized into the future CIP.

Program location

The active projects within this program are in the following Council districts: 5, 6, 7, and 8

New program additions

Category	Details
Scope	Evaluation and rehabilitation of over 8,200 feet of 33 to 54-inch interceptor pipe and abandonment of four inactive Emergency Relief Structures.
Assets	1-MN-302, 1-MN-346, 1-MN-307, 1-MN-300A, 1-MN-320, 1-MN-305, 4-FR-440, ERS-04, ERS-08, ERS-11, ERS-12
Communities	Minneapolis, Saint Paul, Fridley
Added budget	$15,600,000
Construction years	2026 through 2031

Active projects in program

Project Number	Project Title
809200	Minneapolis Interceptor Rehabilitation Phase 2 (Parent Project) – Facility Planning
809203	1-MN-310 Siphon Rehabilitation
809204	1-MN-341 Improvements – Phase 3
809205	Interceptor 1-MN-320 Improvements

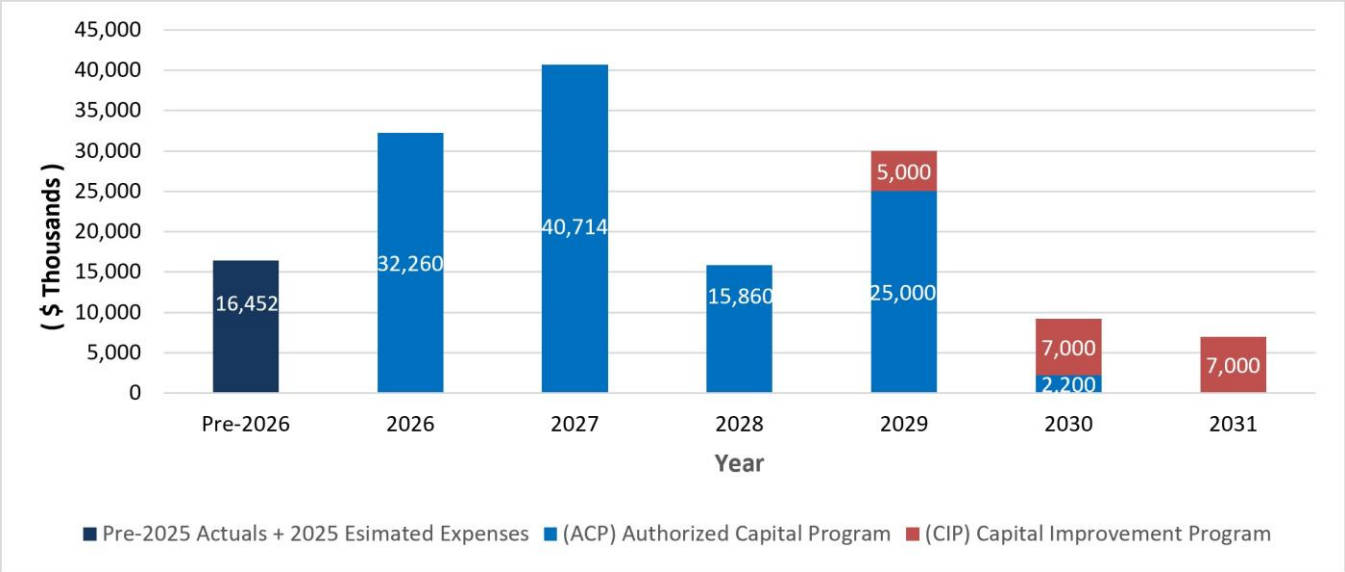
Project Number	Project Title
809207	1-MN-346 Rehabilitation – Phase 2
809208	1-MN-345 Repair
809210	Minneapolis Sandstone Tunnel Evaluation
809211	1-MN-303 Pipe-in-Pipe Rehabilitation
809213	1-MN-310 Rehab between 23rd and 33rd Avenue North
809214	1-MN-310 Rehabilitation – Phase 1
809216	ERS07 Rehabilitation
809218	Northeast Minneapolis Interceptor Rehabilitation

Environmental Services 2026 through 2031 Capital Program

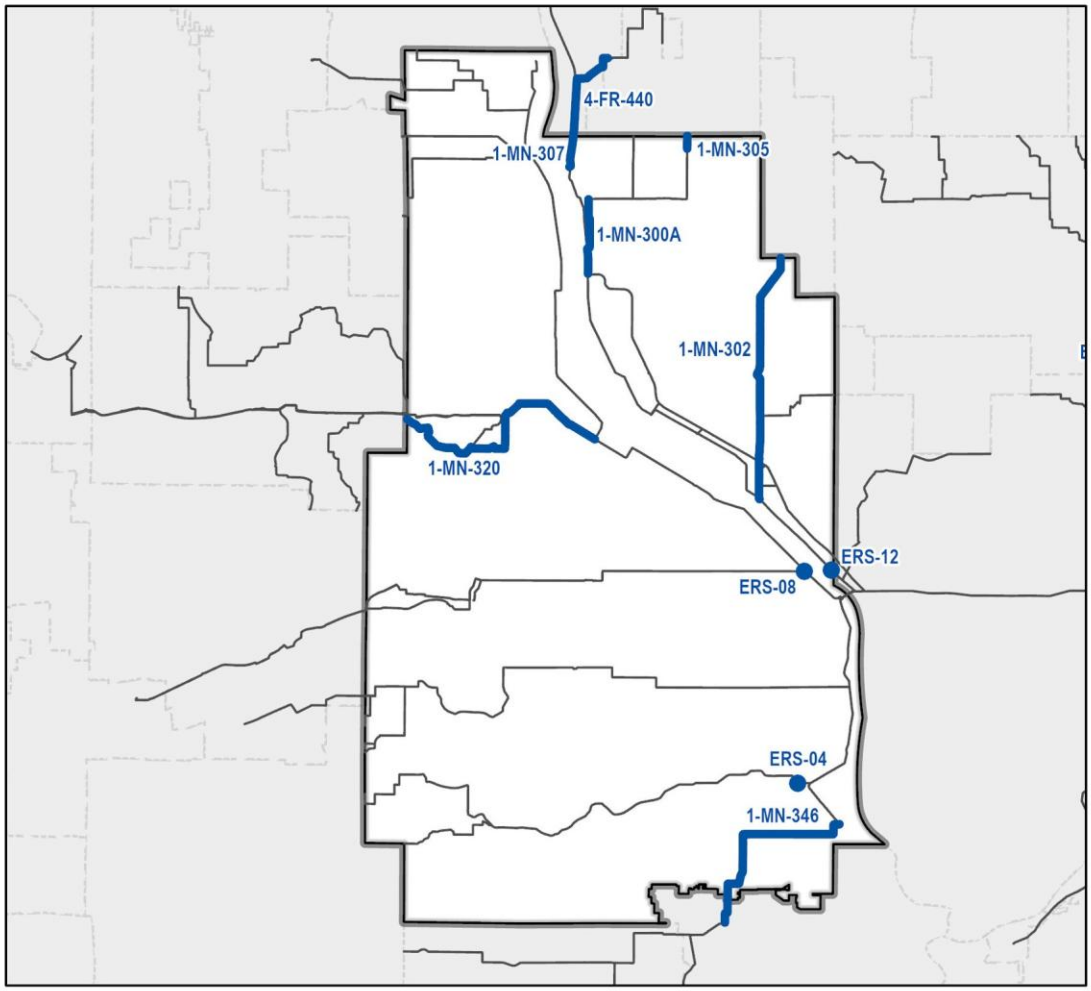
- Authorized Capital Program (ACP): $132,485,912
- Capital Improvement Plan (CIP): $19,000,000

Estimated program cash flow from 2026 through 2031

Note: the ACP is the total amount of all past and present authorizations including pre-2026 expenses.



Minneapolis Area Program Map – New Projects



Minneapolis Capital Improvement Projects (CIP)

MCES Wastewater Treatment System

- Interceptors
- Interceptors with CIP
- Structures with CIP

Boundaries

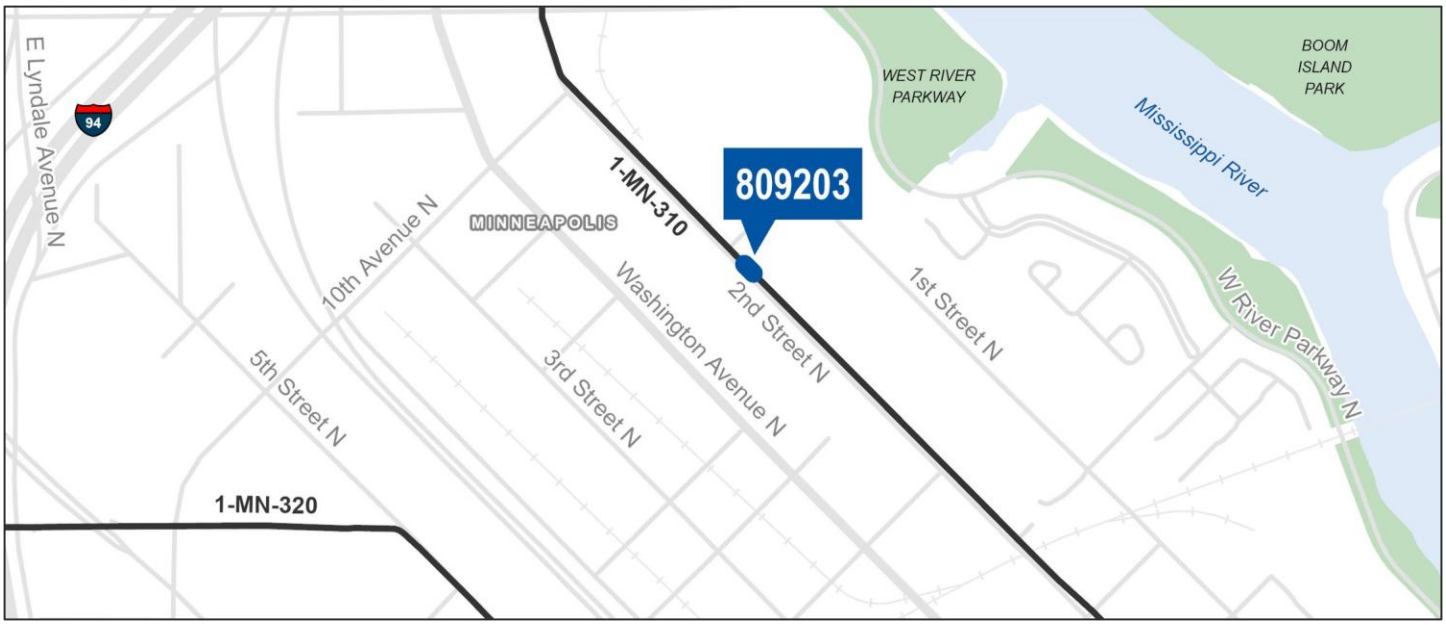
- Community
- Minneapolis

0 1 2 3 4 Miles

1-MN-310 Siphon Rehabilitation

Program family 8092 **Project #809203**

Project location: Council district #7, City of Minneapolis



Map of project #809203 location near the Star Tribune building in Minneapolis

Project type
Interceptor Improvements

Objectives
Asset Preservation

Scope
Rehabilitation of two 36-inch pipes that convey flow under the Bassets Creek tunnel, including rehabilitation of the siphon headhouse and tailhouse.

Project need
Condition assessments have identified the siphon on 1-MN-310, which conveys flow beneath the Bassets Creek tunnel in Minneapolis, as in poor condition and in need of rehabilitation.

Planning: 2024	Design: 2024 through 2025	Construction: 2026 through 2027

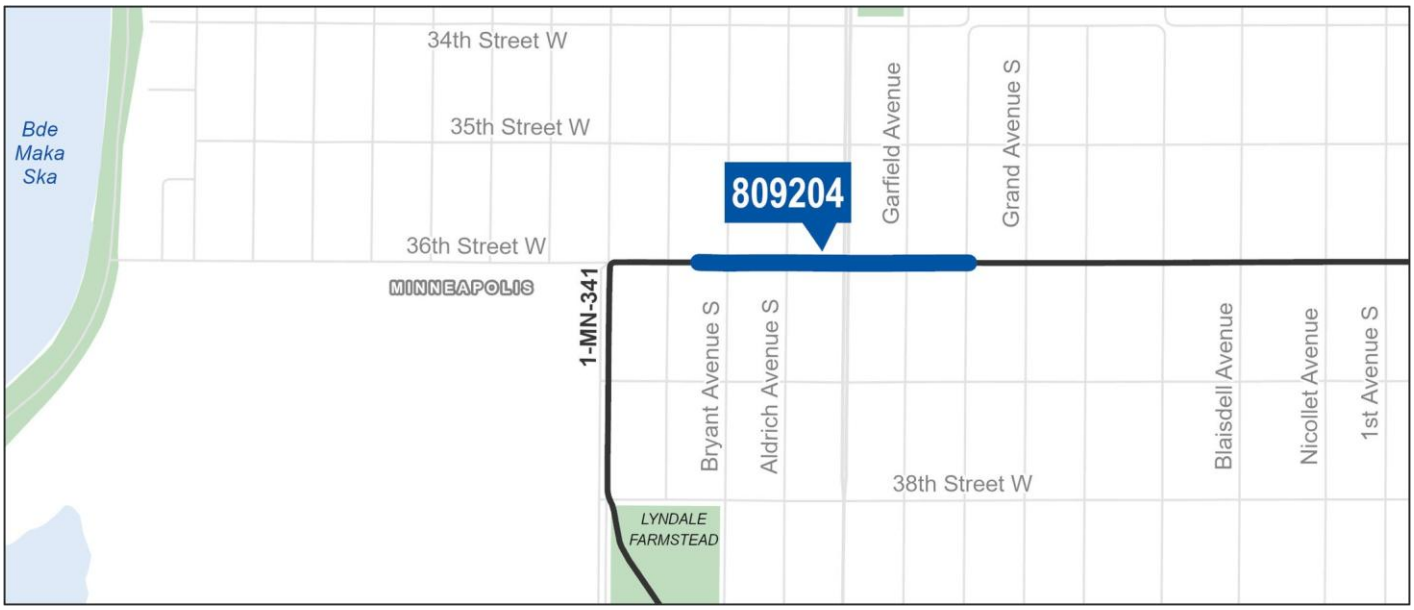
Financial analysis

2026 cash flow:	$2,500,000
Current ACP:	$5,654,000
2026 through 2031 cash flow:	$3,361,000
Total project cost:	$4,000,000

1-MN-341 Improvements – Phase 3

Program family 8092 **Project #809204**

Project location: Council district #6, City of Minneapolis, Crossing of Lyndale Ave at 36th Street West



Map of Project #809204 location at the intersection of Lyndale Ave and 36th St West in Minneapolis

Project type
Interceptor Improvements

Objectives
Asset Preservation

Scope
Rehabilitation of 1,500 feet of 60-inch and 90-inch concrete pipe and replacement of maintenance hole structures.

Project need
Condition assessment rated portions of Interceptor 1-MN-341 in poor condition. The project is needed to minimize the potential for pipe failure and the release of wastewater to the environment.

Planning: 2024	Design: 2025 through 2026	Construction: 2027

Financial analysis

2026 cash flow:	$10,000,000
Current ACP:	$16,955,000
2026 through 2031 cash flow:	$15,753,000
Total project cost:	$16,500,000

Interceptor 1-MN-320 Improvements

Program family 8092 **Project #809205**

Project location: Council district #7, City of Minneapolis

Map of Project #809205 location south of Highway 55 and west of I-94 in Minneapolis

Project type
Interceptor Improvements

Objectives
Asset Preservation

Scope
A Draft Facility Plan recommends the construction of a lift station that serves flows coming into the Currie Avenue portion of 1-MN-320 and a realignment of the portion of 1-MN-320 along Dupont Avenue.

Project need
This interceptor, originally constructed in 1888, is in poor condition. In addition, the poor grade and likely settlement of the old interceptor causes solids accumulation in the pipe and results in odors.

Planning: 2021	Design: 2022 through 2026	Construction: 2026 through 2028

Financial analysis

2026 cash flow:	$360,000
Current ACP:	$15,000,000
2026 through 2031 cash flow:	$16,000,000
Total project cost:	$19,970,000

1-MN-346 Rehabilitation – Phase 2
Program family 8092 **Project #809207**

Project location: Council district #6, Cities of Minneapolis and Richfield

Map of Project #809207 along 53rd Street East in Minneapolis

Project type
Interceptor Improvements

Objectives
Asset Preservation and System Expansion

Scope
Remove and replace Interceptor 1-MN-346 and all city utilities and surface improvements between 53th and 56rd Streets East. Reroute 70+ residential services connected to the interceptor to a new City of Minneapolis lateral sewer and remove and replace an existing city lift station to accommodate the additional flow.

Project need
This section of 1-MN-346 is severely sagged resulting in reduced capacity, blockage of air flow, and backflow of wastewater into residential services connected directly to the interceptor. A complete overhaul of the utilities in this area is needed to provide proper drainage for the entire sewershed.

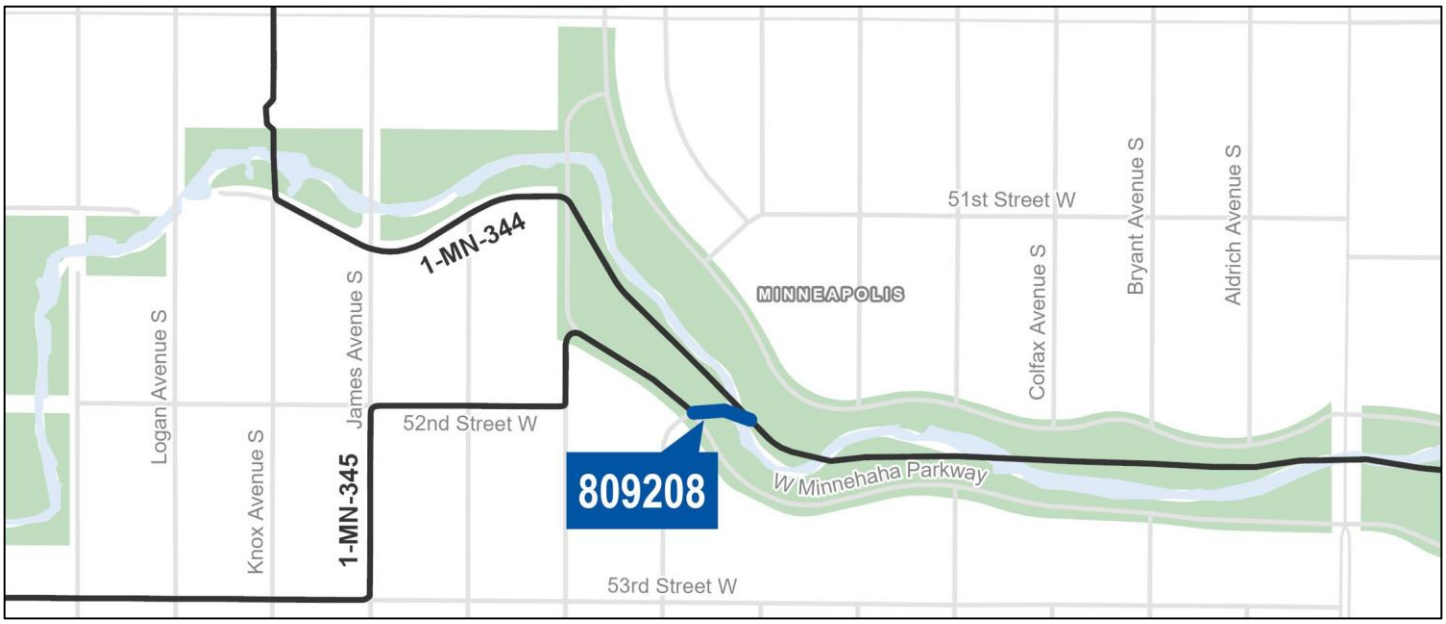
Planning: 2023	Design: 2024 through 2025	Construction: 2026 through 2029

Financial analysis

2026 cash flow:	$400,000
Current ACP:	$23,900,000
2026 through 2031 cash flow:	$21,000,000
Total project cost:	$22,075,000

1-MN-345 Repair
Program family 8092 **Project #809208**

Project location: Council district 5, City of Minneapolis



Map of Project 809028

Project type
Interceptor

Objectives
Asset Preservation

Scope
Rehabilitate Interceptor 1-MN-345 using cured-in-place pipe liner.

Project need
This segment of pipe is severely corroded and in need of rehabilitation.

Planning: 2024 through 2025	Design: 2026	Construction: 2026 through 2027

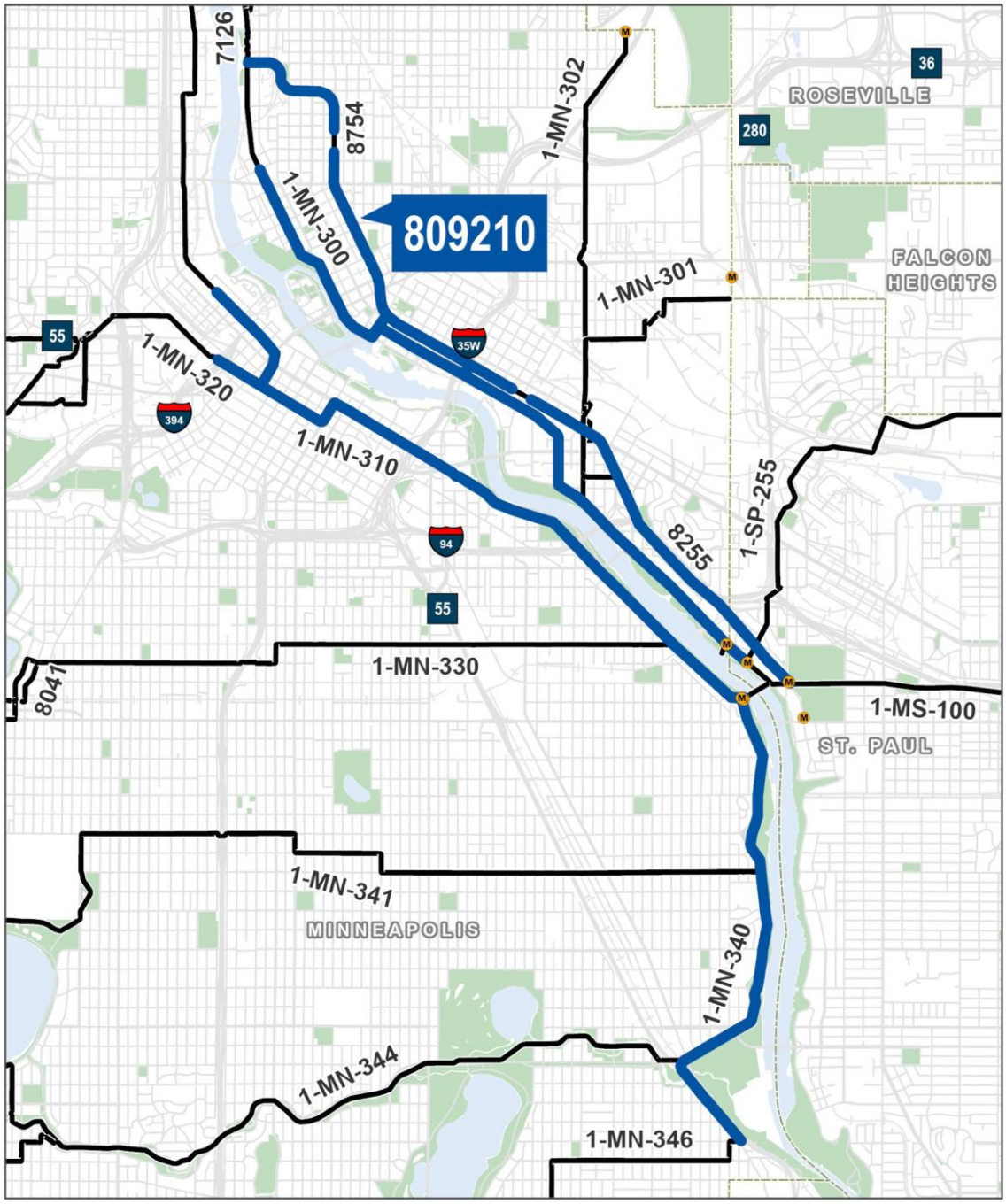
Financial analysis

2026 cash flow:	$50,000
Current ACP:	$400,000
2026 through 2031 cash flow:	$1,650,000
Total project cost:	$1,750,000

Minneapolis Sandstone Tunnel Evaluation

Program family 8092 **Project #809210**

Project location: Council districts 6, 7, and 8, City of Minneapolis



Map of Project #809210 location along the Mississippi River in Minneapolis

Project type
Condition Assessment

Objectives
Asset Preservation

Scope
Complete cave inspections on 1-MN-310 and 1-MN-340 and prepare inspection plans.

Project need
There is a risk of sandstone eroding over time from over the top of constructed tunnels through natural ground behavior. Condition assessments are needed to minimize the potential for pipe failure.

Planning: 2022 through 2023	Design: 2023	Construction: 2026 through 2027

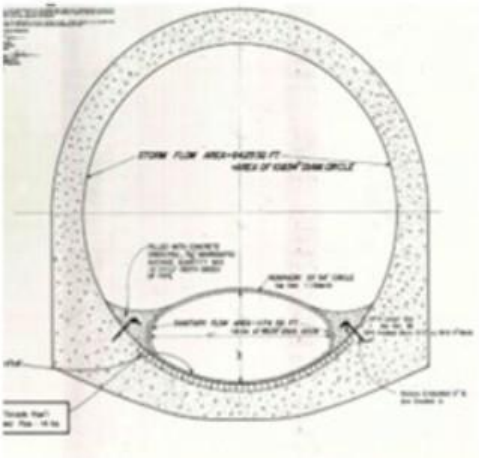
Financial analysis

2026 cash flow:	$3,000,000
Current ACP:	$6,500,000
2026 through 2031 cash flow:	$18,000,000
Total project cost:	$18,530,000

1-MN-303 Pipe-in-Pipe Rehabilitation

Program family 8092 **Project #809211**

Project location: Council district #7, City of Minneapolis, Columbia Park and Marshall Terrace neighborhoods



Left: Profile drawing of interceptor pipe. Right: Photo of damage to piping.

Project type
Interceptor Improvements

Objectives
Asset Preservation

Scope
Repair pipe-in-pipe (PIP) using removal and replacement and/or cured-in-place-pipe (CIPP).

Project need
Interceptor 1-MN-303 was built in the early 1920s as a 102-inch reinforced concrete combined sanitary/storm sewer. The segment of 1-MN-303 on 31st Avenue NE between Randolph Street NE and Columbia Golf Course was converted to a PIP separated sewer in 1965 using inlaid deformed corrugated metal pipe (CMP). A walking inspection conducted in January 2022 identified severe damage and corrosion that is allowing significant inflow of stormwater into the sanitary sewer.

Planning: 2020 through 2021	Design: 2021 through 2022	Construction: 2026 through 2027

Financial analysis

2026 cash flow:	$6,000,000
Current ACP:	$14,997,100
2026 through 2031 cash flow:	$14,500,000
Total project cost:	$15,020,000

1-MN-310 Rehabilitation Between 23rd and 33rd Avenue North

Program family 8092 **Project #809213**

Project location: Council district #7, City of Minneapolis

Map of Project #809213 location south of Lowry Avenue and east of I-94 in Minneapolis

Project type
Interceptor Improvements

Objectives
Asset Preservation

Scope
Line 5,000 feet of 1-MN-310 from 34th Avenue North to 22nd Avenue North and rehabilitate 20 maintenance holes.

Project need
Interceptor 1-MN-310 is adjacent to the proposed Upper Harbor Terminal Project in Minneapolis. Recent CCTV inspection has identified condition 4 deterioration between 34th and 22nd Avenues North. The project schedule will be coordinated to limit impacts on future development in the area.

Planning: 2020	Design: 2020 through 2026	Construction: 2026 through 2027

Financial analysis

2026 cash flow:	$5,000,000
Current ACP:	$15,330,000
2026 through 2031 cash flow:	$13,600,000
Total project cost:	$14,025,000

1-MN-346 Rehabilitation – Phase 1

Program family 8092 **Project #809214**

Project location: Council district #6, City of Minneapolis.

Map of Project #809214 location north of Highway 62 in Minneapolis

Project type
Interceptor Improvements

Objectives
Asset Preservation

Scope
Rehabilitate the existing condition 5 pipe between Bossen Field and 53rd Street East or replace it.

Project need
Methane gases are likely entering Interceptor 1-MN-346 through surrounding fill materials. High methane concentrations have been found at structures along Bossen Field park and upstream to Meter M-130. The interceptor was identified as being in poor condition in previous assessment. Lining the interceptor will preserve the pipe and minimize gases from entering the sewer, potentially causing hazardous conditions.

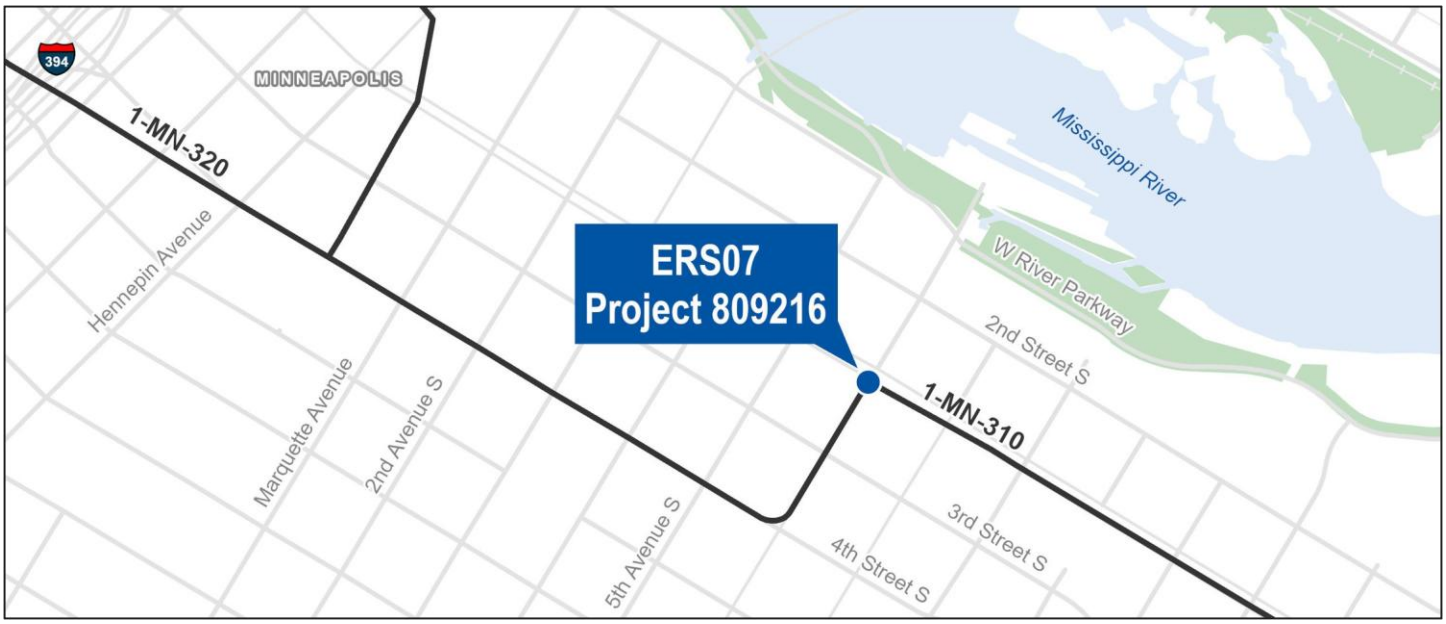
Planning: 2022	Design: 2023	Construction: 2024 through 2025

Financial analysis

2026 cash flow:	$3,810,000
Current ACP:	$5,516,000
2026 through 2031 cash flow:	$3,810,000
Total project cost:	$5,000,000

ERS07 Rehabilitation
Program family 8092 **Project #809216**

Project location: Council district 3, City of Minneapolis



Map of Project 809216

Project type
Interceptor

Objectives
Asset Preservation

Scope
Rehabilitate the corroded gate vaults and damaged odorous air duct work.

Project need
Concrete and ductwork need to be rehabilitated to keep the working space safe and accessible.

Planning: 2024 through 2025	Design: 2025 through 2026	Construction: 2026 through 2027

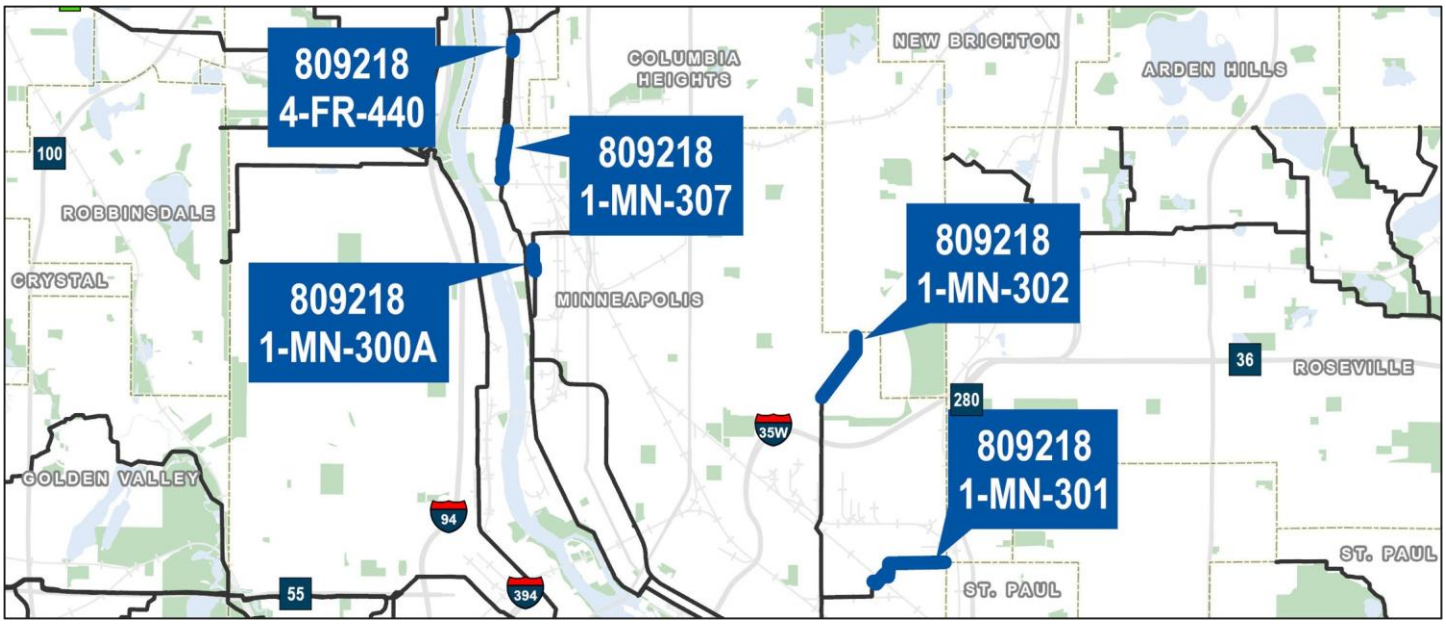
Financial analysis

2026 cash flow:	$2,000,000
Current ACP:	$2,000,000
2026 through 2031 cash flow:	$3,000,000
Total project cost:	$3,227,000

Northeast Minneapolis Interceptor Rehabilitation

Program family 8092 **Project #809218**

Project location: Council district 2 and 7, Cities of Minneapolis and Fridley



Map of Project 809218 showing four sites across Northeast Minneapolis and one site in Fridley

Project type
Interceptor

Objectives
Asset Preservation

Scope
Rehabilitate two miles deteriorated pipe using cured-in-place pipe liner and rehabilitate 63 maintenance holes using a fiberglass insert.

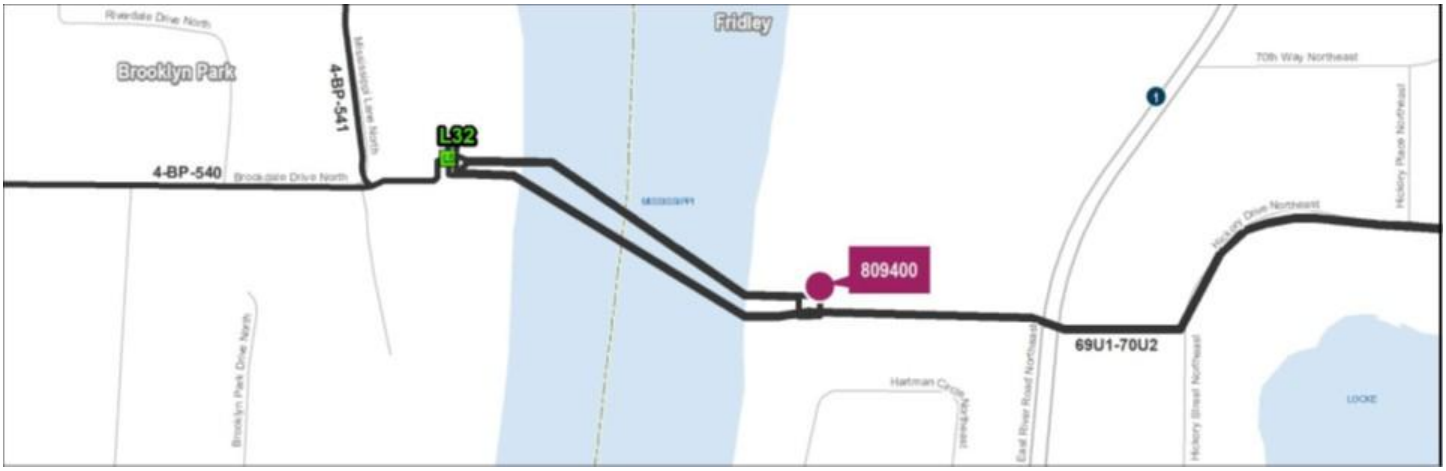
Project need
Five sites across Northeast Minneapolis and Fridley have deteriorated pipe and maintenance holes. Deterioration includes corroded concrete pipes, cracking, and infiltration. Lining the pipe and rehabilitating/replacing the maintenance holes will preserve the life of the sewer.

Planning: 2025	Design: 2026-2027	Construction: 2027-2029

Financial analysis

2026 cash flow:	$240,000
Current ACP:	$1,413,000
2026 through 2031 cash flow:	$11,900,000
Total project cost:	$12,000,000

Program 8094 – Brooklyn Park L32 Replacement



Map of project 809400 on either side of the Mississippi River in Brooklyn Park and Fridley

Description

This program provides the construction of a new lift station L32A on the east side of the Mississippi River on Council property. The program will determine which facilities will remain on the west side of the river at the existing L32 site.

Purpose and justification

Condition assessments have documented structural, mechanical, and electrical deficiencies which have led to system failures, such as backups and odor issues. Additionally, the existing lift station does not have capacity to serve the current and future needs of the area.

Program location

The active projects within this program are in the following Council district: 2

Active projects in program

Project Number	Project Title
809400	Design of New Lift Station L32A (Parent Project)

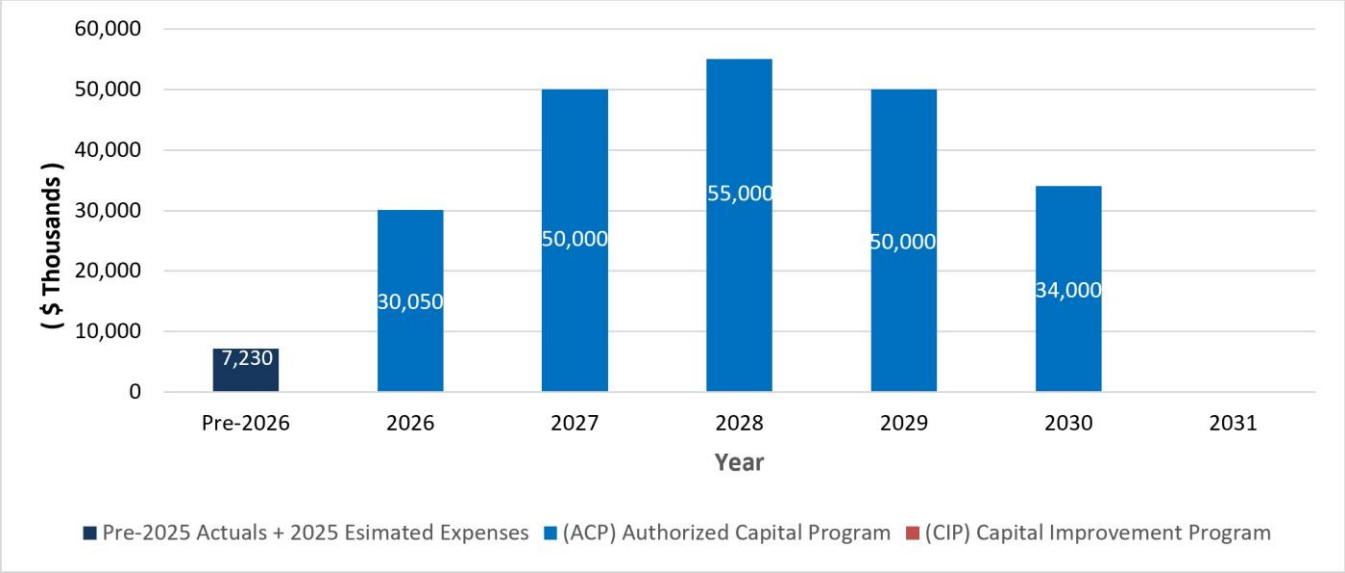
(Continued on next page)

Environmental Services 2026 through 2031 Capital Program

- Authorized Capital Program (ACP): $226,280,280
- Capital Improvement Plan (CIP): $0

Estimated program cash flow from 2026 through 2031

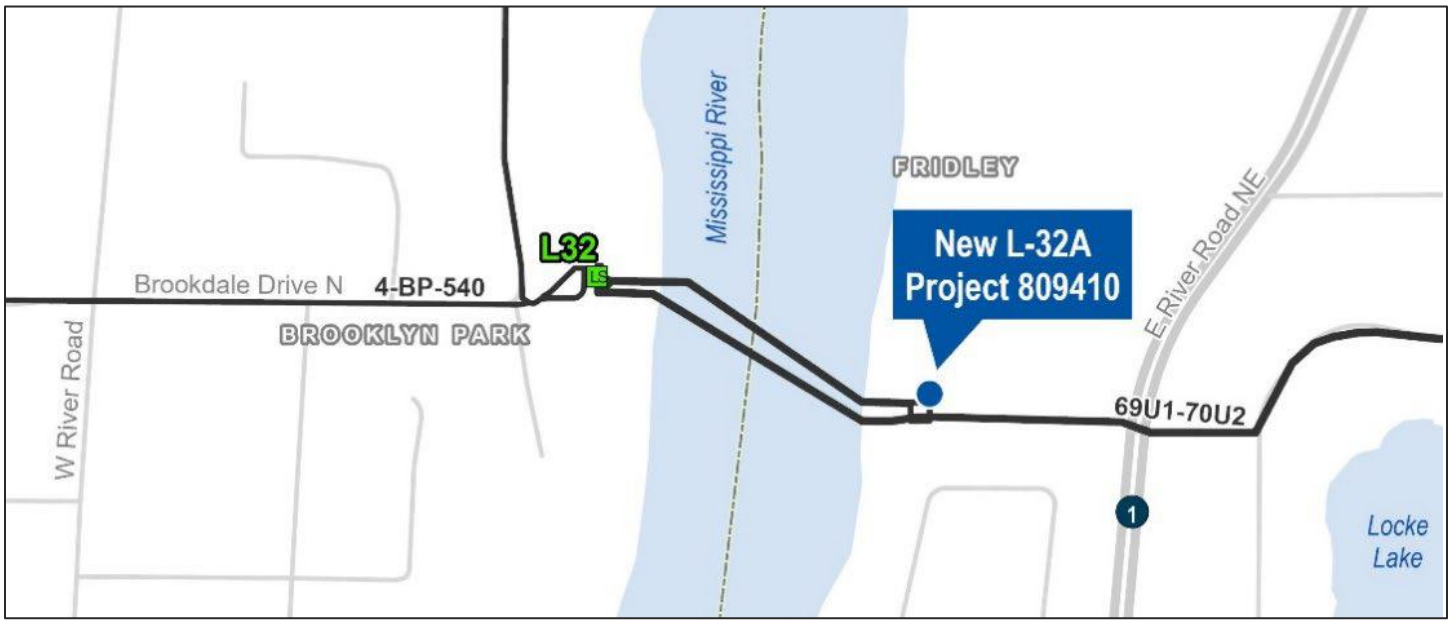
Note: the ACP is the total amount of all past and present authorizations including pre-2026 expenses.



Design of New Lift Station L32A

Program family 8094 **Project #809400**

Project location: Council district #2, Cities of Brooklyn Park and Fridley, Lift Station L32 Site



Map of project #809400 location on either side of the Mississippi River in Brooklyn Park and Fridley

Project type
Lift Station Improvements

Objectives
Asset Preservation, System Expansion

Scope
Project includes design of a new lift station L32A on the east side of Mississippi River in Fridley. The work will also include rehabilitation of the two old forcemain pipes under the river, conversion of the existing forcemain pipes into siphon pipes, and demolition of the existing lift station L32 in Brooklyn Park.

Project need
Condition assessments have documented structural, mechanical, and electrical deficiencies which have led to system failures, such as backups and odor issues. Additionally, the existing lift station does not have capacity to serve the current and future needs of the area.

Planning: 2019 through 2021	Design: 2022 through 2026	Construction: 2027 through 2032

Financial analysis

2026 cash flow:	$30,000,000
Current ACP:	$224,854,772
2026 through 2031 cash flow:	$219,000,000
Total project cost:	$226,000,000

Program 8095 – South Area Interceptor Improvements

The construction of a new outfall structure for the Bloomington siphon in Eagan

Description

The interceptor systems in Apple Valley, Eagan, Farmington, Lakeville, Savage, and other south-area communities need rehabilitation and/or replacement as well as expansion to serve growth. This program will rehabilitate existing interceptor facilities, including gravity sewers, and forcemains, and will analyze system needs to accommodate growth.

Purpose and justification

The program provides for improvements to the interceptor system that serves the south area. This includes work that will rehabilitate deteriorated interceptors in this area.

Program location

The active projects within this program are in the following Council districts: 4, 15, and 16

New program additions

Category	Details
Scope	Coordination/relocation and rehabilitation of over 8,400 feet of 18 to 27-inch interceptor pipe.
Assets	8560, 3-BV-39, 7112
Communities	Savage, Burnsville, Rosemount
Added budget	$49,500,000
Construction years	2026 through 2031

Active projects in program

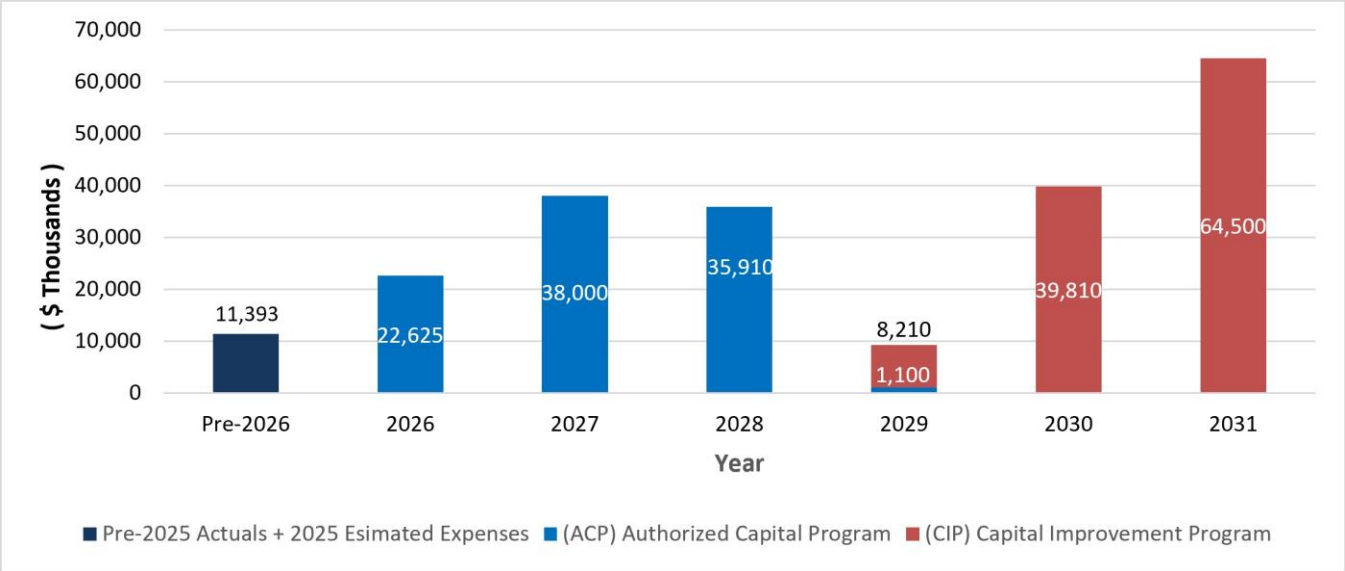
Project Number	Project Title
809500	South Area Improvements (Parent Project)
809510	Shakopee Interceptor Odor Improvements
809512	1-MH-401 Rehabilitation Emergency Repair – Phases 2 and 3
809513	7031-9003 Siphon Outlet Improvements
809515	Woodbury 1-WO-500 Improvements
809516	Burnsville Interceptor 3-BV-39
809517	9701 & 9208 Maintenance Hole Improvements
809518	MnDOT Robert Street Reconstruction 1-SP-230/M058
809519	Interceptor 3-BV-35 Rehabilitation Site 1
809521	Burnsville 3-BV-35 Site 2 Rehabilitation
809522	Interceptor 8560 Relocation
809523	Interceptor 7111A & Siphon 7102-2 Rehabilitation
809526	1-MH-401 River Crossing

Environmental Services 2026 through 2031 Capital Program

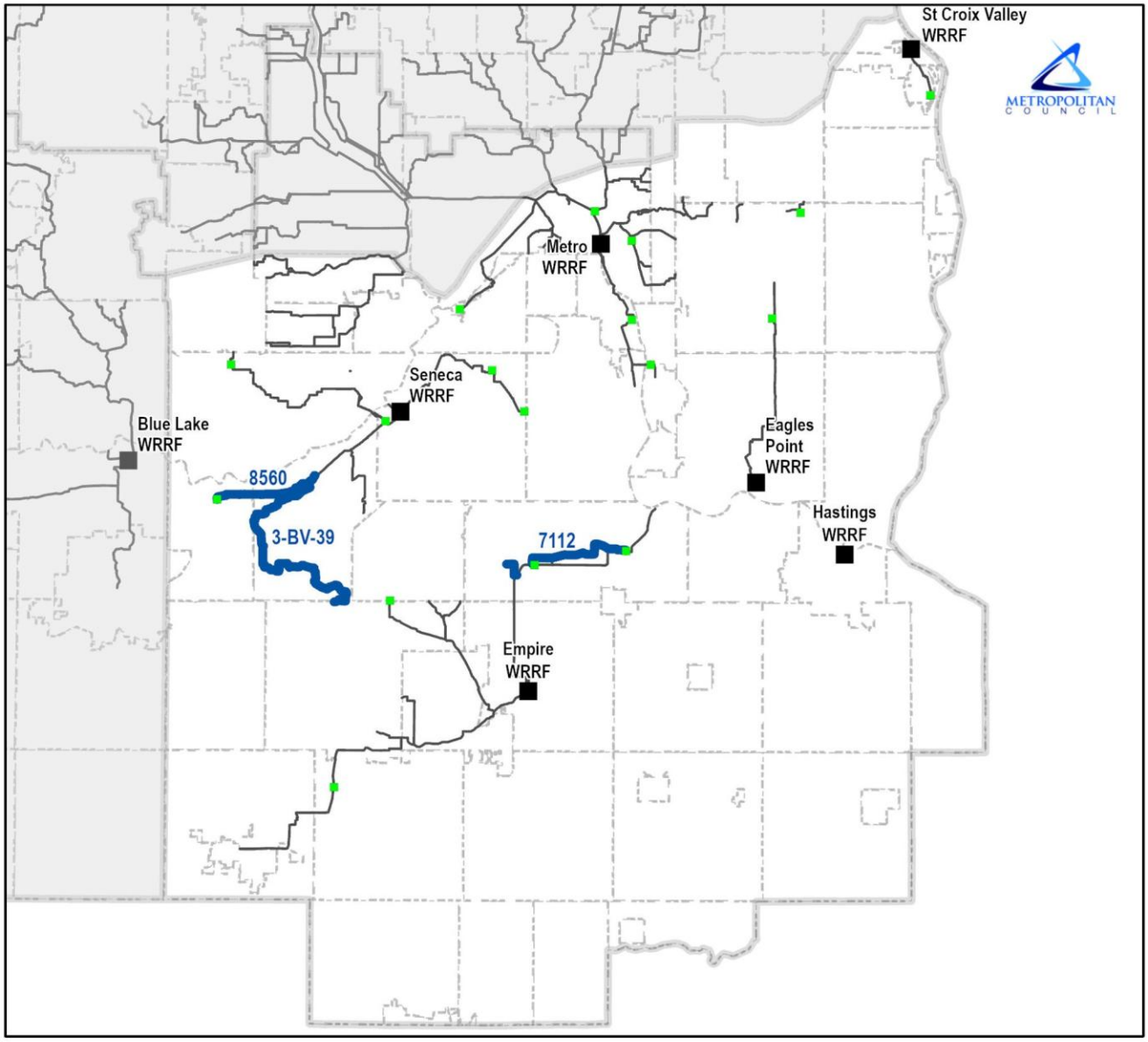
- Authorized Capital Program (ACP): $109,028,176
- Capital Improvement Plan (CIP): $112,520,000

Estimated program cash flow from 2026 through 2031

Note: the ACP is the total amount of all past and present authorizations including pre-2026 expenses.



South Area Program Map – New Projects



South Service Area Capital Improvement Projects (CIP)

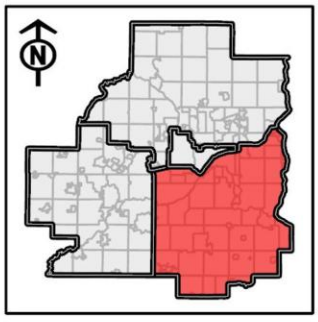
MCES Wastewater Treatment System

- Lift Stations
- Water Resource Recovery Facilities (WRRF)
- Interceptors
- Interceptors with CIP

Boundaries

- Community
- Service Area

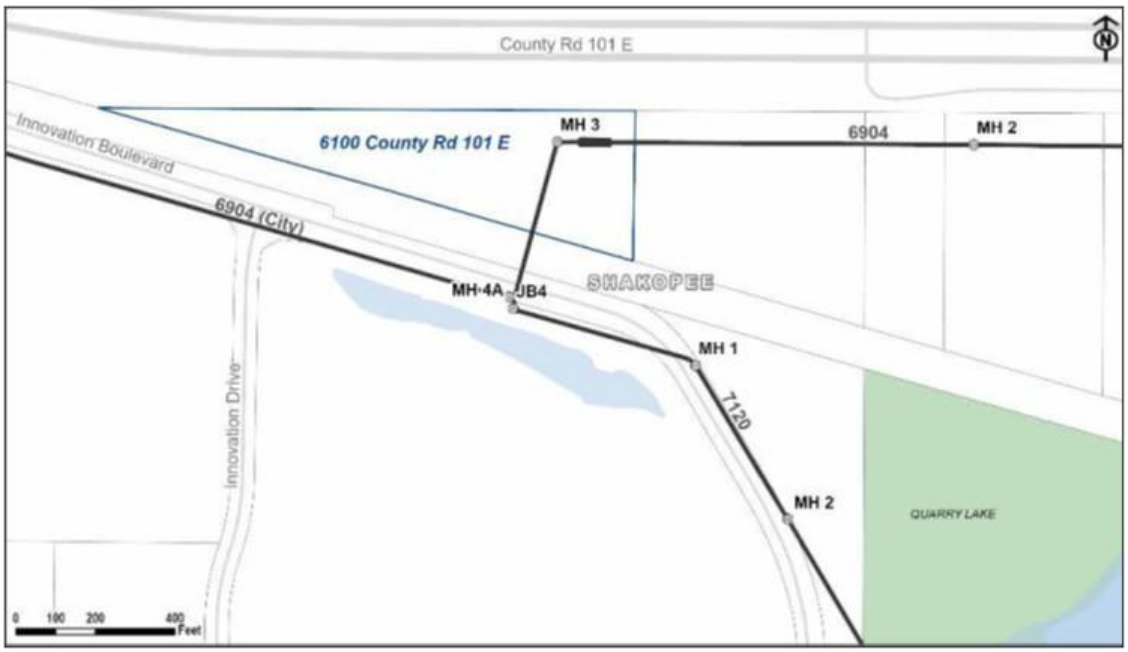
0 3 6 9 12 Miles



Shakopee Interceptor Odor Improvements

Program family 8095 **Project #809510**

Project location: Council district #4, City of Shakopee



Map of project #809510 north of Innovation Boulevard and south of County Road 101 East in Shakopee

Project type
Interceptor Improvements

Objectives
Asset Preservation, Quality Improvement

Scope
Project work will include construction of ventilation and odor treatment facilities.

Project need
Very high hydrogen sulfide generation in interceptors 7120, 9206, and 6904 has led to corrosion and odors. A siphon located along interceptor 6904 creates an air dam, forcing sewer air to escape to the surface and impacting surrounding properties with odor. Hydrogen sulfide concentration within the interceptors at this location is at dangerous levels, creating a safety issue for inspections and cleaning work.

Planning: 2020 through 2023	Design: 2023 through 2024	Construction: 2026 through 2028

Financial analysis

2026 cash flow:	$1,500,000
Current ACP:	$9,510,500
2026 through 2031 cash flow:	$8,500,000
Total project cost:	$9,411,000

1-MH-401 Rehabilitation Emergency Repair – Phases 2 and 3

Program family 8095 **Project #809512**

Project location: Council District #14, Cities of Saint Paul, Mendota Heights, and Lilydale

Map of Project #809512 near I-35E and Crosby Farm Regional Park

Project type
Interceptor Improvements

Objectives
Asset Preservation

Scope
Phase 2 work includes restoration of wetland areas on the north side of the river. Phase 3 work includes installation of a temporary conveyance system to pump water over the I-35E bridge while a new river crossing is designed and constructed under a different project.

Project need
The facility is currently operating with one operable siphon and one partially blocked siphon. A rehabilitation project is required to restore reliability and capacity to the entire system and avoid wastewater releases to the environment.

Planning: 2023 through 2025	Design: 2025 through 2026	Construction: 2027 through 2029

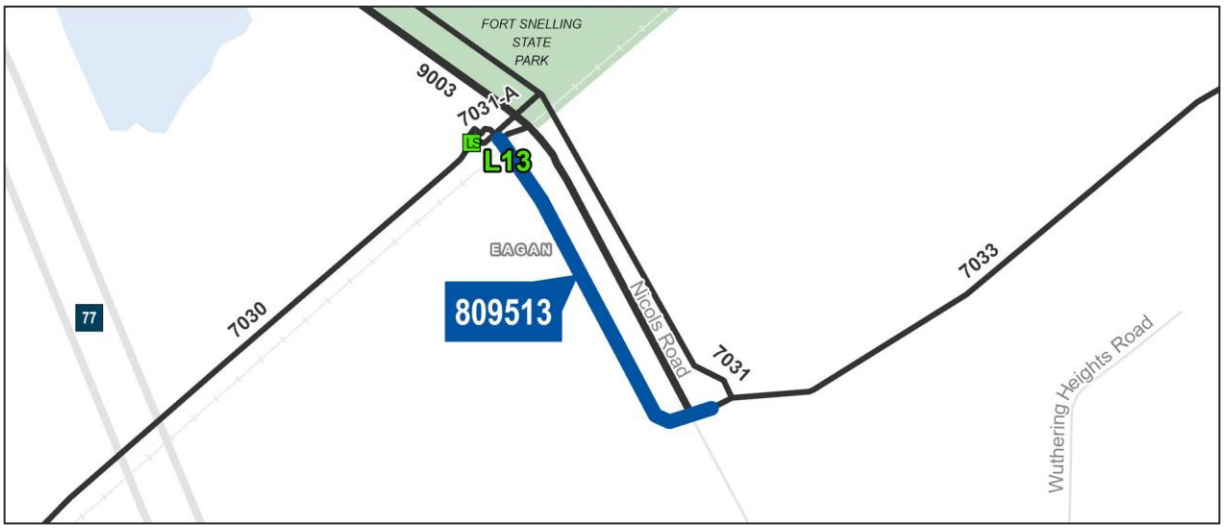
Financial analysis

2026 cash flow:	$5,000,000
Current ACP:	$15,755,000
2026 through 2031 cash flow:	$48,500,000
Total project cost:	$49,624,000

7031-9003 Siphon Outlet Improvements

Program family 8095 **Project #809513**

Project location: Council district #15, City of Eagan



Map of project 809513 location on Nicols Road in Eagan.

Project type
Forcemain and Siphon Improvements

Objectives
Asset Preservation

Scope
Phase I of the construction was completed under Project 819026: clear trees, relocate utilities, and install temporary conveyance. Phase II of the construction is being completed under Project 809513 over two winter construction seasons, and includes rebuilding the south junction structure, maintenance holes, slip-lining pipe, and relocation of the forcemain from the Nicols Calcareous Fen to Nicols Road.

Project need
During inspection of the 7031/9003 Siphon Outlet Structures, Project 819010, severe corrosion was identified in the South Junction Structure and Maintenance Hole 1. The 7030 forcemain between L13 and the Siphon Outlet Structure was constructed of 30-inch pre-stressed circular concrete pipe (PCCP) in 1972. PCCP Pipe of this installation year has a high rate of failure in corrosive environments. The pipe runs along the west side of Nicols Road through the Nicols Calcareous Fen, a unique type of wetland that supports many threatened or endangered plant species.

Planning: 2022 through 2023	Design: 2023 through 2024	Construction: 2025 through 2027

Financial analysis

2026 cash flow:	$2,000,000
Current ACP:	$7,100,000
2026 through 2031 cash flow:	$2,500,000
Total project cost:	$7,100,000

Woodbury 1-WO-500 Improvements

Program family 8095 **Project #809515**

Project location: Council district 13, Cities of Woodbury and Oakdale

Map of the project 809515 location in Woodbury, Maplewood and Saint Paul

Project type
Study

Objectives
Asset Preservation and System Expansion

Scope
Metropolitan Council Environmental Services (ES) owns and operates 1-WO-500 in the cities of Woodbury, Maplewood, and Saint Paul. The interceptor potentially has capacity Issues from the crossing of I-94 at the Oakdale border to Ruth Street North in Saint Paul. The primary objective of this project is to improve system reliability by increasing the capacity of the interceptor. The planning phase will include hydraulic modeling and a desktop and field evaluation of the existing facility conditions.

Project need
The loss of service capacity in 1-WO-500 could cause environmental impacts from a spill or restrain future development.

Planning: 2025	Design: 2026	Construction: TBD

Financial analysis

2026 cash flow:	$2,000,000
Current ACP:	$2,107,500
2026 through 2031 cash flow:	$10,900,000
Total project cost:	$11,000,000

Burnsville Interceptor 3-BV-39
Program family 8095 **Project #809516**

Project location: Council district #16, City of Burnsville

Map of Project #809520 Site 1 location from Frontage Road South across I-35W to near Cliff Road East in Burnsville

Project type
Interceptor Improvements

Objectives
Asset Preservation

Scope
Rehabilitation of 8,560 feet of interceptor pipe and 30 maintenance structures.

Project need
Routine gravity interceptor CCTV inspections have identified four interceptor sites in the South Interceptor Service Area that have failed pipes or pipes that will likely fail in the next 5 years. The facilities are in need of rehabilitation.

Planning: 2023	Design: 2024	Construction: 2025 through 2026

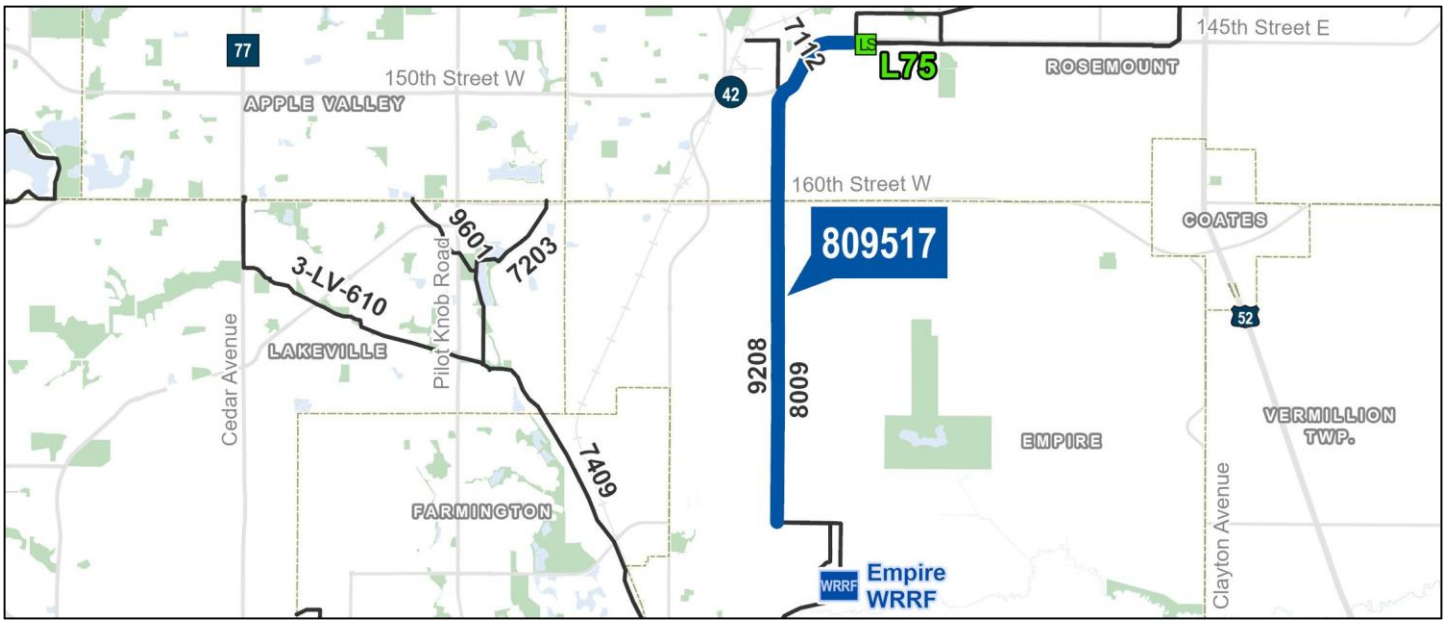
Financial analysis

2026 cash flow:	$700,000
Current ACP:	$2,398,000
2026 through 2031 cash flow:	$14,700,000
Total project cost:	$15,000,000

9701 & 9208 Maintenance Hole Improvements

Program family 8095 **Project #809517**

Project location: Council district 12 and 16, Cities Cottage Grove, Empire Township, and Rosemount



Map of Project 809517

Project type
Interceptor

Objectives
Asset Preservation

Scope
Bring approximately 70 buried maintenance holes up to grade.

Project need
Maintenance holes need to be accessible to allow routine inspection and repairs if necessary.

Planning: 2025	Design: 2026	Construction: 2027 through 2028

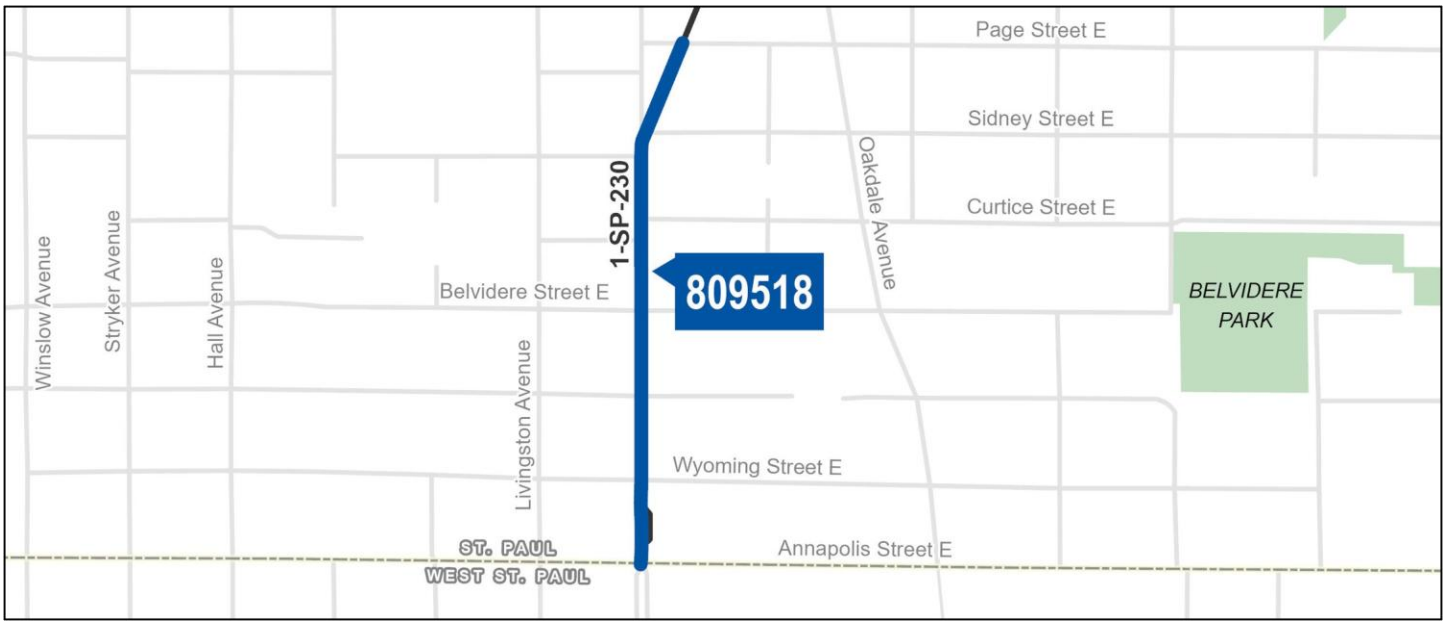
Financial analysis

2026 cash flow:	$200,000
Current ACP:	$1,020,000
2026 through 2031 cash flow:	$300,000
Total project cost:	$351,000

MnDOT Robert Street Reconstruction 1-SP-230/M058

Program family 8095 **Project #809518**

Project location: Council district #13 and 15, Cities of Saint Paul and West St. Paul



Map of project #809518 – location in Saint Paul's West Side

Project type
Interceptor and Meter Improvements

Objectives
Asset Preservation and Quality Improvements

Scope
The scope of work on this project will include replacement of 2,000 linear feet of 42-inch brick pipe, 11 maintenance structures, and meter M058, and construction a new local sanitary sewer that will enable 55 private service connections to be eliminated. MnDOT will contract the sewer replacement work and Met Council will separately contract the meter replacement work.

Project need
MnDOT's Robert Street Reconstruction project between Annapolis Street East and Kellogg Boulevard overlaps a portion of interceptor 1-SP-230 and M058. Condition assessments show fair- to poor-condition assets in the vicinity. This project will extend the useful life of interceptor facilities in the MnDOT right-of-way beyond the construction 20-year no-dig moratorium.

Planning: 2025	Design: 2025 - 2026	Construction: 2027 - 2028

Financial analysis

2026 cash flow:	$400,000
Current ACP:	$14,250,000
2026 through 2031 cash flow:	$3,200,000
Total project cost:	$3,400,000

Interceptor 3-BV-35 Rehabilitation Site 1
Program family 8095 **Project #809519**

Project location: Council district #16, City of Burnsville

Map of Project #809520 Site 2 south of the eastern portion of Black Dog Lake and Site 3 along Cliff Road

Project type
Interceptor Improvements

Objectives
Asset Preservation

Scope
Sites 2 and 3 of the South Area Improvements. This project includes rehabilitation of 2,740 feet of interceptor pipe and associated maintenance structures as needed.

Project need
Interceptor 3-BV-35 was constructed in 1964. CCTV inspection showed two segments to be conditions 4 and 5 and in need of rehabilitation or replacement. The upstream segment from MH-172 to MH-170 includes approximately 800 feet of 18-inch reinforced concrete pipe (RCP). The downstream segment between MH-85 and the 7030 discharge includes 1,200 feet of 12-inch vitreous clay pipe (VCP) and 740 feet of 18-inch VCP.

Planning: 2023	Design: 2024	Construction: 2025 through 2026

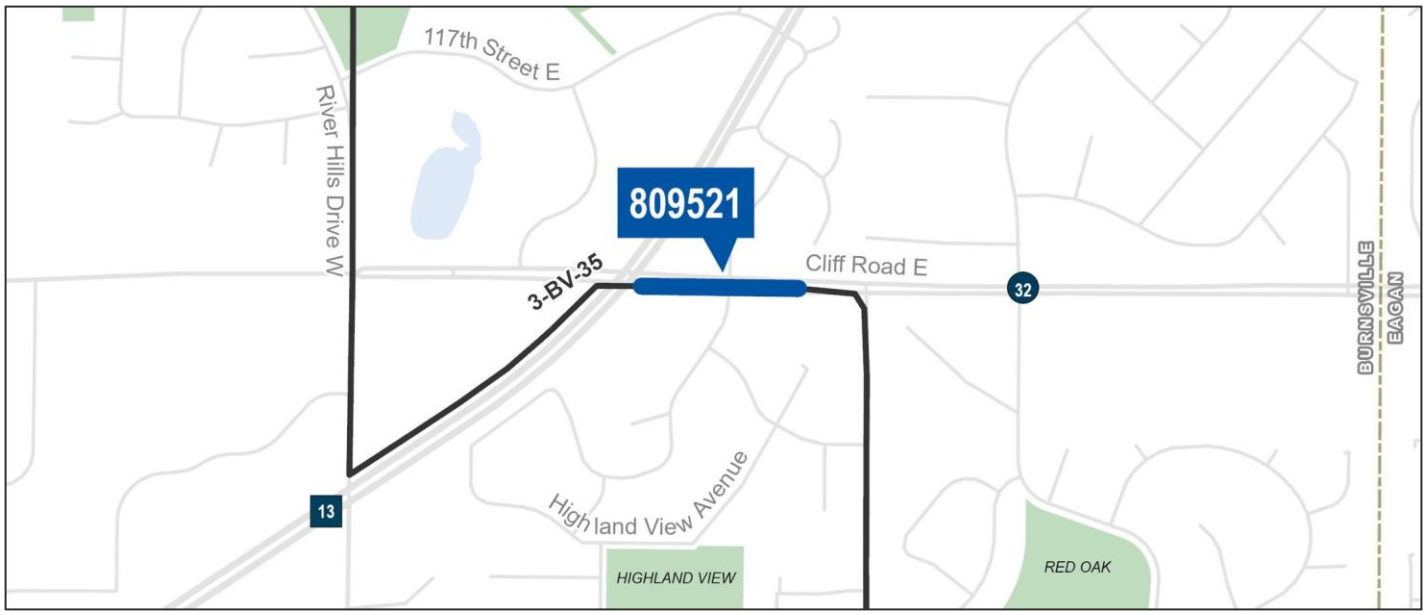
Financial analysis

2026 cash flow:	$2,000,000
Current ACP:	$1,216,000
2026 through 2031 cash flow:	$2,350,000
Total project cost:	$2,400,000

Burnsville 3-BV-35 Site 2 Rehabilitation

Program family 8095 **Project #809521**

Project location: Council district #16, City of Burnsville



Map of project #809521 located along Cliff Road near Highway 13 in Burnsville

Project type
Interceptor Rehabilitation

Objectives
Asset Preservation

Scope
3-BV-35 Site 2 includes the approximately 800-foot segment from maintenance hole (MH)-170 to MH-1 along Cliff Road. MH-1 is a drop MH with one 8-inch City of Burnsville connection from the south. MH-2 is a drop MH with one 9-inch City of Burnsville connection from the north.

Site 2 construction will include a single temporary conveyance pipe routed on the south side of Cliff Road and underneath Highway 13. Site 2 construction will include traffic control around the construction area and restoration of disturbed areas.

Project need
Approximately 800 linear feet of 18-inch reinforced concrete pipe (RCP) pipe was installed in 1964 and was rated 4 (poor) during the 2022 condition assessment.

Planning: 2023	Design: 2024 through 2025	Construction: 2025 through 2026

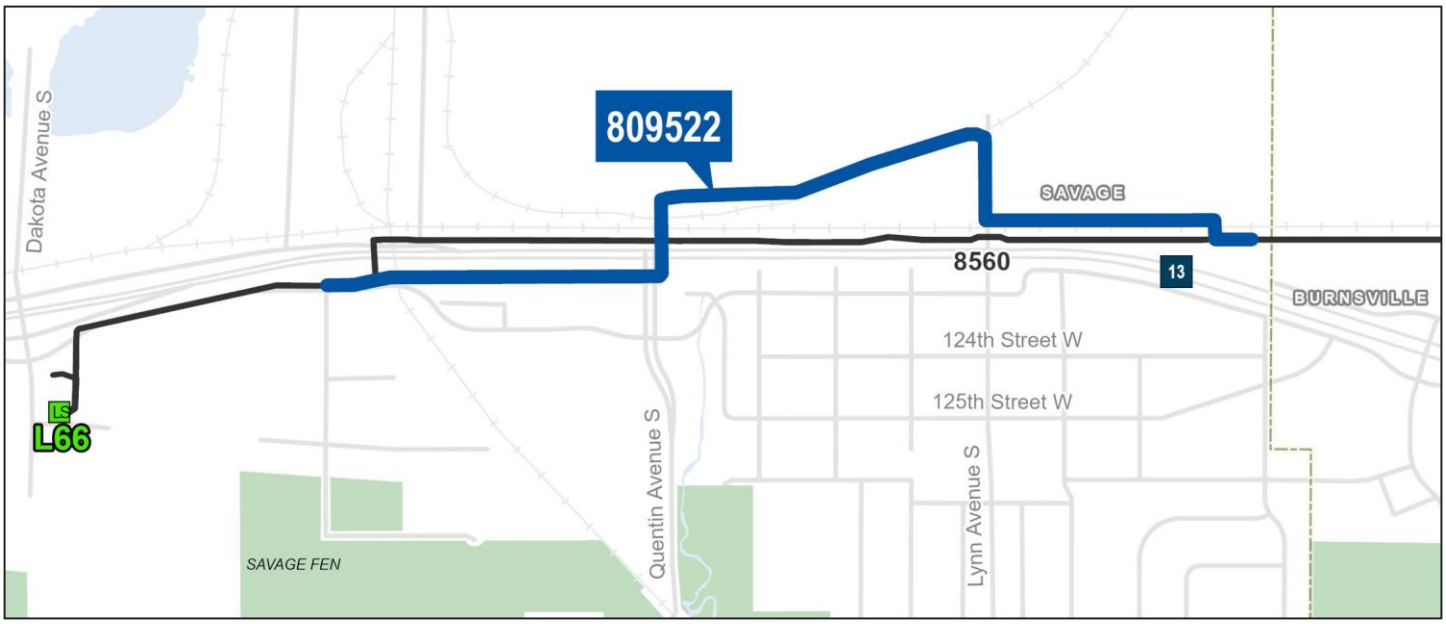
Financial analysis

2026 cash flow:	$1,950,000
Current ACP:	$3,047,000
2026 through 2031 cash flow:	$2,000,000
Total project cost:	$2,100,000

Interceptor 8560 Relocation

Program family 8095 **Project #809522**

Project location: Council district # 16, City of Savage



Map of project #809522 located along TH 13 between Vernon Ave South and Lynn Ave South in Savage

Project type
Interceptor Relocation

Objectives
Quality Improvement

Scope
The project includes the relocation of approximately 4,500 linear feet of dual 14-inch and 16-inch forcemains north of Highway 13 through the Cargill property. The new installation will consist of dual 18-inch and 20-inch forcemains, along with a temporary conveyance system to maintain service during construction. The work also includes traffic control and abandonment of the existing forcemain infrastructure. A construction cooperative agreement will be required to accommodate schedule constraints, and the project will also require a CP Railroad permit and easements through the Cargill property.

Project need
MnDOT is planning a reconstruction project for TH-13 in Savage, which will affect the existing dual Forcemain (FM) 8560 in the area. A relocation of the FM is required to avoid the MnDOT project area and to maintain continuous access to the forcemain for operation and maintenance work in the future.

Planning: Year through Year 2025-2026	Design: 2026-2027	Construction: 2027-2029

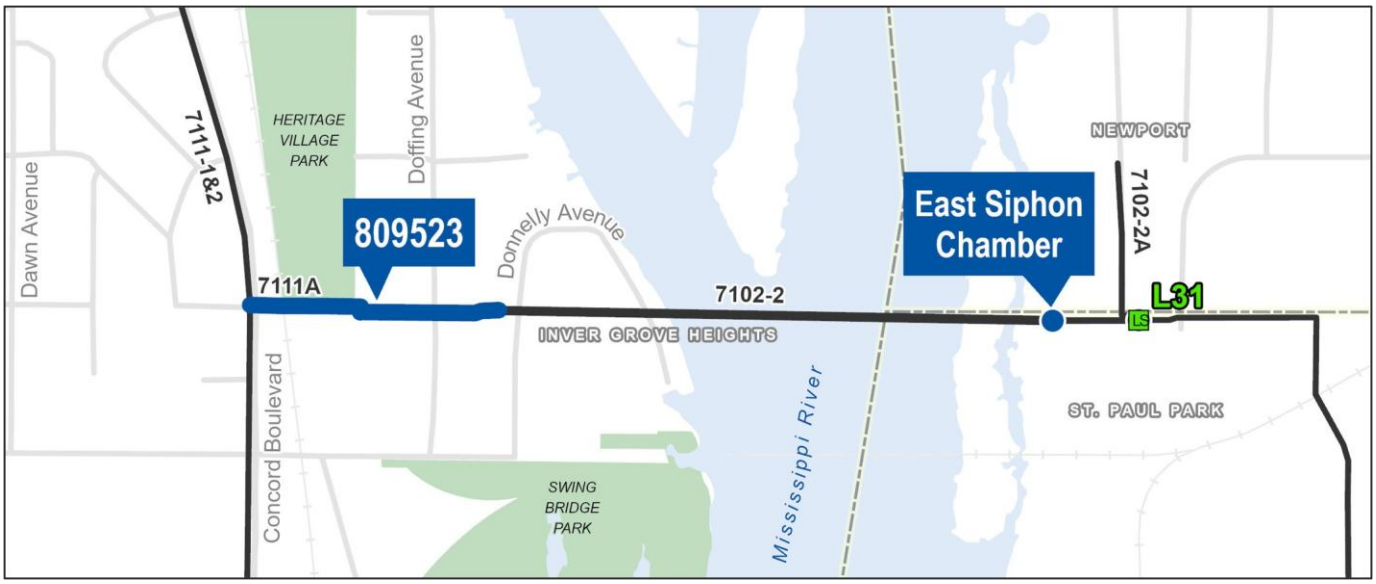
Financial analysis

2026 cash flow:	$3,750,000
Current ACP:	$2,000,000
2026 through 2031 cash flow:	$23,750,000
Total project cost:	$24,250,000

Interceptor 7111A & Siphon 7102-2 Rehabilitation

Program family 8095 **Project #809523**

Project location: Council district #15, City of Inver Grove Heights, 7102-2 and 7111A



Map of Project #809520 Site 4 south of Heritage Village Park in Inver Grove Heights

Project type
Interceptor Improvements

Objectives
Asset Preservation

Scope
Site 4 of the South Area Improvements includes rehabilitation of 555 feet of interceptor pipe and associated maintenance structures.

Project need
CCTV inspection showed the segment between the 7102-2 Turning Chamber and 7111A discharge to 7111-1 and 2 at maintenance hole (MH) 212 to be conditions 4 and 5. The turning structure is in very poor to failing condition, as is the tail of the siphon pipes. Other structures associated with these pipes are in poor condition and will need replacement.

Planning: 2023	Design: 2024	Construction: 2025 through 2026

Financial analysis

2026 cash flow:	$500,000
Current ACP:	$2,411,000
2026 through 2031 cash flow:	$7,900,000
Total project cost:	$8,103,000

1-MH-401 River Crossing

Program family 8095 **Project #809526**

Project location: Council district #14 &15, Cities of Saint Paul, Lilydale, and Mendota Heights

Three siphon pipes, known as the Lilydale Siphons, cross under the Mississippi River from Mendota Heights to Saint Paul.

Project type
Interceptor Improvements

Objectives
Asset Preservation

Scope
Installation of three new pressure pipes under the Mississippi River. The method of pipe installation is unknown at this time but will likely consist of either dredging a trench across the river or drilling the pipes within the bedrock under the riverbed.

Project need
One pipe catastrophically failed on the north side of the river. It was repaired under Emergency Declaration and is currently operable, but significant wall loss under the river is suspected. A segment of another pipe north of the river was repaired under a second Emergency Declaration, but an additional, unrepairable break was identified under the river during the work. This pipe is currently out of service. The third pipe appears to be partially blocked.

Planning: 2026	Design: 2027 through 2028	Construction: 2028 through 2029

Financial analysis

2026 cash flow:	$500,000
Current ACP:	$3,600,000
2026 through 2031 cash flow:	$55,500,000
Total project cost:	$55,500,000

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