SPRWS CAPITAL PLAN

Fiscal Years: 2025-2034

"Providing reliable, quality water & services at a reasonable cost"

Contact Us:

651-266-6350

www.StPaul.gov/water

1900 Rice Street, Saint Paul, MN

SAINT PAUL REGIONAL WATER SERVICES

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WHAT IS A CAPITAL IMPROVEMENT PLAN?

Saint Paul Regional Water Services (SPRWS) updates the Capital Improvement Plan (CIP) each year to provide a long-term financial planning document and 10-year roadmap for maintaining, upgrading, and replacing capital infrastructure. The CIP guides the continuation of major capital asset investments in projects that will upgrade water supply, treatment, distribution, and technology systems. The plan also supports compliance with federal and state regulatory requirements and improves the efficiency of operations. This CIP is integrated into the utility's financial planning process and is the primary driver of projected rate adjustments over the ten-year planning period.

CIP GOALS

The goals of this CIP are to ensure the utility adheres to an informed, fair, open and objective process, maintains a standard of delivering affordable service to customers, continues to optimize lowest total life-cycle costs, enhances the link between capital and operations budgets, emphasizes long-term planning needs, and secures financial stability and predictable rate adjustments.

OUR VISION

To be a regional and national water industry leader emphasizing quality product, services, & cost containment

OUR MISSION

Our mission at Saint Paul Regional Water Services is to relentlessly provide reliable, quality water & services at a reasonable cost.

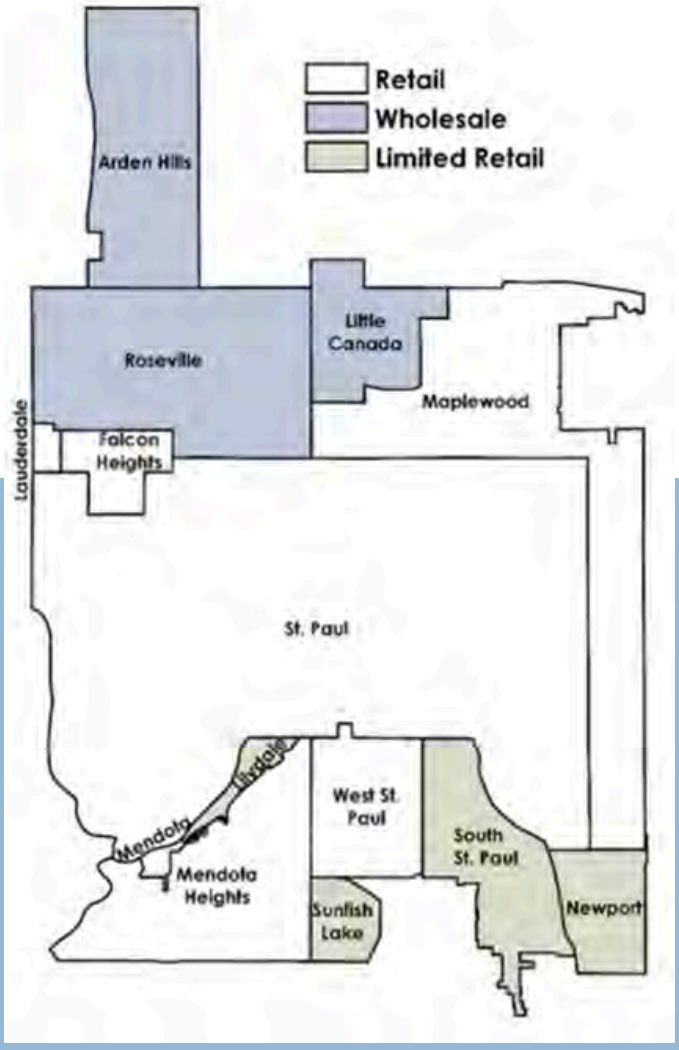
INTRODUCTION

ABOUT US

Saint Paul Regional Water Services (SPRWS) was created in 1882, with origins tracing back to a private company formed in 1869. Today, the utility serves approximately 450,000 customers with an average of over 40 million gallons of water each day.

SPRWS provides full retail water distribution services within the cities of Saint Paul, Maplewood, Mendota Heights, Mendota, West Saint Paul, Falcon Heights, & Lauderdale. Retail services are provided to a limited number of customers in Lilydale, Sunfish Lake, South Saint Paul, & Newport.

SPRWS sells wholesale drinking water to the cities of Little Canada and Roseville, who subsequently provides water to Arden Hills.



OPERATIONS

SPRWS operates & maintains a 112 million gallon per day (MGD) water treatment plant located in Maplewood. Major assets include 1,185 miles of water mains, 25,200 valves, 10,000 hydrants, one raw water pump station, ten finished water pump stations, six finished water reservoirs, and 12 finished water storages tanks.

SPRWS is governed by a seven-member Board of Water Commissioners, consisting of three members of the Saint Paul City Council, two Saint Paul citizens, and two members of the suburban communities served by SPRWS.

SPRWS does not receive funding from city taxes to support the utility. Instead, SPRWS is a self-supporting enterprise with revenue obtained through the sale of water & payment for services by customers.

CUSTOMER INDEX	440,000+	96,961	$74,831
	POPULATION	ACTIVE ACCOUNTS	MEDIAN HOUSEHOLD INCOME

CIP TERMS AND DEFINITIONS

Defining terms in the Capital Investment Plan is crucial for ensuring clarity and consistency across all stakeholders. It helps eliminate misunderstandings, aligns everyone on SPRWS project's objectives and processes, and facilitates informed decision-making. Clear definitions also ensure that all parties interpret the plan's content uniformly, leading to more effective communication and smoother project execution.

CAPITAL ASSET POLICY

Our **Capital Asset Policy** defines how expenditures will be recognized and accounted for between capital, operating expenses, & the standards for capitalization of fixed assets for the utility. The policy therefore determines the projects that are included in the Capital Investment Plan.

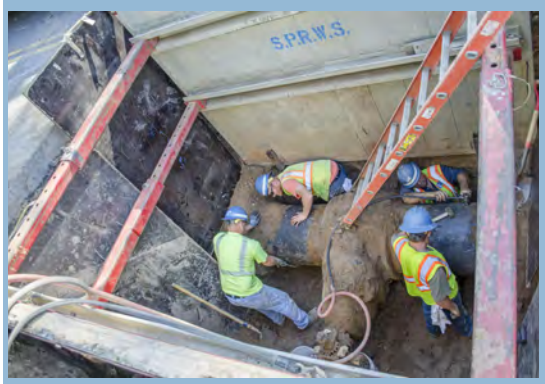
CAPITAL ASSETS

Capital Assets include land, buildings, building improvements, water supply and treatment equipment, distribution mains, pumps, storage tanks, service connections, equipment, vehicles, technology systems, and other assets. Direct purchases or construction of assets in the amount of $5,000 or more, while having a useful life in excess of one year, must be capitalized.

CAPITAL COST

The **Capital Cost** of projects may include labor, equipment, materials, supplies, and overhead expenses.

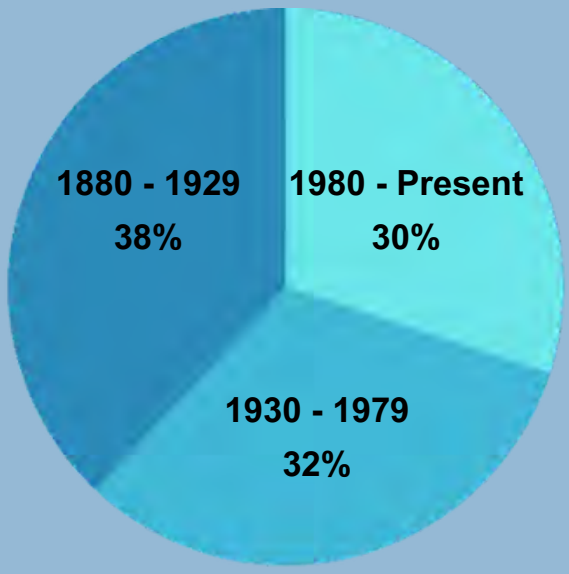
The cost of capital equipment purchases that are part of a clearly identified capital program can be aggregated, such as replacement of water meters and registers.



LIFE CYCLE OF FIXED ASSETS

A central objective of this CIP is to minimize the overall life cycle costs for utility assets, considering all expenses associated with acquisition, operations, and maintenance. The service age of assets is one factor that can significantly impacts long term repair costs and service reliability for customers. The figure to the right illustrates the age of the water distribution system, the largest asset category for SPRWS.

INSTALLATION YEAR OF DISTRUBUTION SYSTEM



Asset	Estimated Life Cycle
Supply Mains	100 years
Reservoirs	60 years
Clarifiers	50 years
Hydrants	50 years
Water Meters	25 years
Meter Registers	15 years

EXAMPLES OF ESTIMATED ASSET REPLACEMENT CYCLE

The figure on the left provides insights into the lifespan of key water infrastructure components. This information helps SPRWS understand how long these assets typically last and when they should be scheduled for replacement. It ensures proactive planning and maintenance, helping to avoid unexpected failures and maintain reliable service.

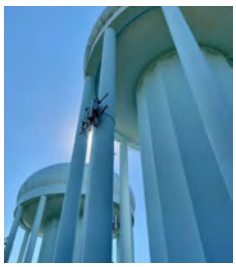
PROJECT PRIORITIATZATION

ABOUT OUR PROCESS

Capital planning involves a comprehensive and systematic effort to develop and prioritize immediate and long-terms needs. The prioritization process is intended to guide funding and resource allocations across all SPRWS divisions. This objective evaluation and prioritization of projects is needed when numerous projects compete for limited resources.

PRIORITIZATION CRITERA

PRWS uses the following prioritization criteria to evaluate projects due to overall funding limitations and the need to renew/replace a significant amount of aging infrastructure.



Regulatory Compliance

- Ranks a project's relative importance for maintaining current compliance levels or mitigating future compliance impacts.

Water Quality and Level of Service

- Ranks a project's role in maintaining or improving current quality of services, water quality, and service reliability.

Safety & Security

- Ranks a project's relative importance in maintaining or improving employee or public health and safety.

Risk of Failure

- Ranks the project's probability of failing if not replaced or improved

Return on Investment and Efficiency

- Evaluates a project's potential to deliver financial benefits and operational efficiencies, maximizing value for customers

Social & Environmental Benefits

- Considers the positive impacts a project may have on the community and the environment, promoting sustainable practices and social well-being

Funding Opportunities

- Takes into account the availability of external funding sources, such as grants or partnerships, to support the project

PROJECT CATEGORIES

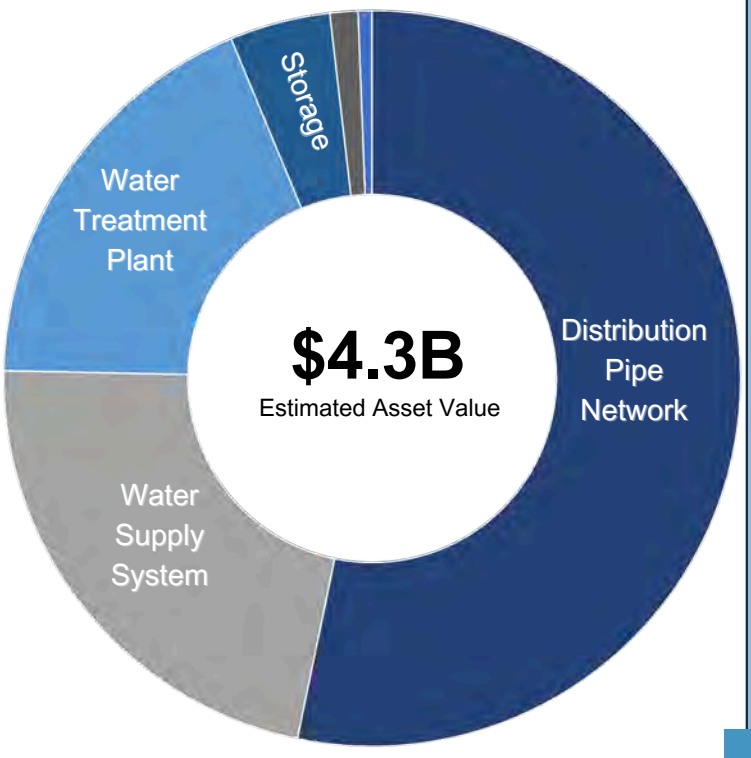
SPRWS capital projects are organized into 11 categories outlined below based on service delivery function. This process assists the utility in monitoring investment rates in individual categories to provide a balance in life cycle asset replacement across the organization.

1. **Water Supply**
2. **Water Treatment**
3. **Electrical and SCADA**
4. **Pump Stations**
5. **Water Storage**
6. **Distributions System**
7. **Technology**
8. **Meters and Registers**
9. **Building and Grounds**
10. **Safety and Security**
11. **Vehicles & Equipment**

Estimated Asset Replacement Value

Excludes Land, Easements, Office Equipment, IT Equipment

Vehicles & Equipment	$25M
Water Supply	$900M
Water Treatment	$750M
Distributuion System	$2,443M
Pump Stations	$50M
Water Facilities	$180M

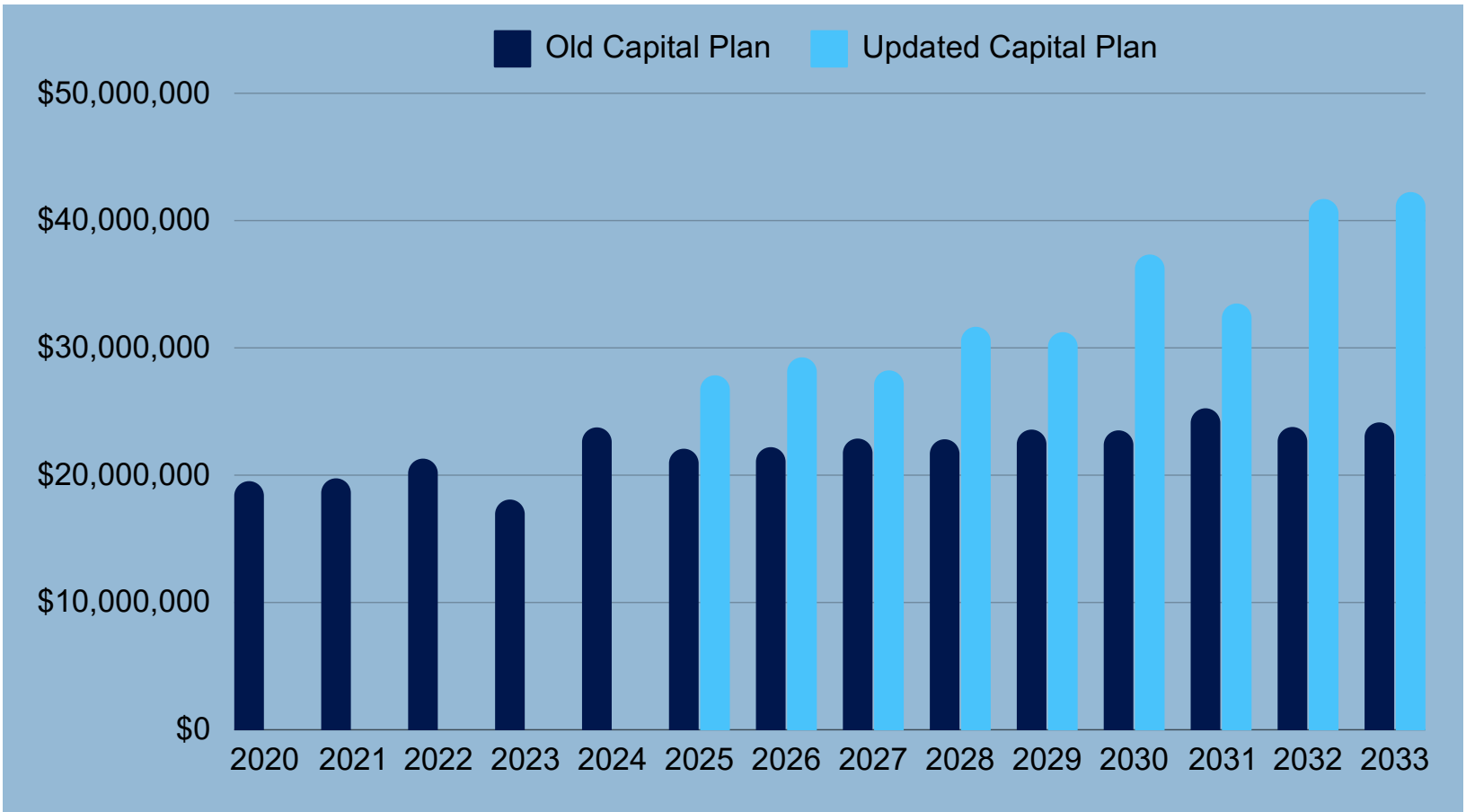


TEN YEAR CAPITAL INVESTMENT PLAN

SPRWS has historically budgeted a relatively consistent amount of capital expenditures each year within general capital asset categories, with annual funding amounts adjusted for inflationary cost increases. The overall volume of projects undertaken each year were then scaled to the amount of funding allocated within the annual budget.

While this approach to capital planning allowed the annual budget to easily reconcile with available revenue, it did not fully consider long-term capital needs or the aging of utility assets, risking a backlog of deferred replacements and financial liabilities. For the 2025 budget, SPRWS has updated its capital planning to itemize specific project needs and begin to align annual capital investments with asset replacement cycles. Specific asset replacement goals were considered while identifying individual projects for each year of the plan.

The 10-year capital plan was adjusted to maintain a stable cash position, prioritizing projects to avoid depleting cash reserves below targeted levels, based on future rate adjustments. This planning effort resulted in a revenue funding capital improvement spending plan as illustrated below.



CAPITAL INVESTMENT SUMMARY

The 2025 Budget includes $27.8 million in revenue funded capital projects as summarized below. Additional grant funded work will continue for the lead water service line replacement program and debt funded improvements for the final stages of the water treatment plant project.

Key projects for 2025 include expansion of the water meter register replacement program, rehabilitation of Highland Park Storage Tank #2, improvements to the treatment plant filter gallery, and the first phase of transitioning to a 1% replacement rate for water distribution mains.

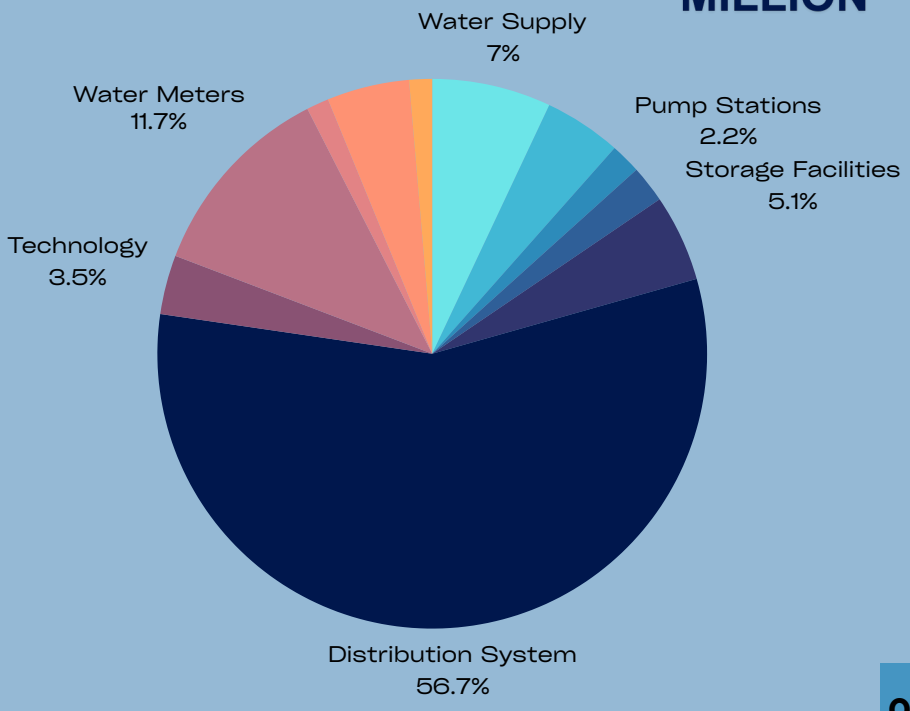
A full list of projects within the 10-year CIP, including projects within the 2025 budget, is provided in Appendix A. A one-page summary for each project is provided in Appendix B.

The projected volume of water to be sold in 2025 remains unchanged at: 1.65 billion cubic feet (BCF). Actual consumption in 2018-2023 has remained very consistent.

2025 CAPITAL INVESTMENTS

$27.8 MILLION

Asset Type	Capital Expenditure
Water Supply	$1,950,000
Water Treatment	$1,264,000
Electrical & SCADA	$497,000
Pump Stations	$605,540
Storage Facilities	$1,421,580
Distribution System	$15,788,000
Technology	$970,000
Water Meters	$3,258,000
Buildings, Grounds, Safety	$365,000
Vehicles & Equipment	$1,350,000
Water Service Connections	$375,000



FUTURE ANNUAL UPDATES

SPRWS updates the CIP annually during the early phases of the budget process. CIP projects can add long-term operating expenses due to new equipment or processes. Future CIP updates will include analysis to identify financial impacts on the operating budget and align projects with key performance indicators. It is vital to note that the 10-Year Capital Plan is a fluid document, with proposed amendments presented annually to the Board of Water Commissioners. Annual changes should be expected to the plan and may result from funding reductions, grant opportunities, emergency needs, or regulatory changes.

CASH RESERVE FUND

SPRWS estimates a use of $7.8 million from cash reserves in the 2025 budget. The Board maintains a fund balance that includes the cash amounts we are legally required to maintain due to bond covenants, a reserve to cover tort and claim liabilities, funds for capital projects budgeted and approved in previous years. This account fluctuates with added savings and expenses and can be used to provide stabilization during times of extreme variation. In planning for the plant project, SPRWS built up the cash balance and will utilize this account for stabilization.

SPRWS CAPITAL INVESTMENT PLAN

Racquel Vaske
General Manager
Todd Blomstrom
Assistant General Manager
Graeme Chaple
Distribution Division Manager
Che Fei Chen
Production Division Manager
Richard Hibbard
Enginering Division Manager
Richard Rowland
Business Division Manager

Call Us
651-266-6350

SPRWS Address
1900 Rice Steet, Saint Paul, MN

Web Address
www.stpaul.gov/water

E-Mail Address
waterinquiries@ci.stpaul.mn.us

For language translation call us at 651-266-6868 or visit our website

10-Year Capital Improvement Plan Summary

Saint Paul Regional Water Services

August 29, 2024

	Project Year										
	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total 10 Year
Total Revenue Funded (from Below)	$ 27,794,120.38	$ 29,204,209.91	$ 28,181,718.20	$ 31,655,302.26	$ 31,234,071.31	$ 37,332,910.37	$ 33,484,659.73	$ 41,697,904.83	$ 42,238,686.50	$ 43,059,939.86	$ 345,883,523.35
Total Debt, Grant, & Revenue Funded (from Below)	$ 39,844,120.38	$ 29,254,209.91	$ 28,231,718.20	$ 31,655,302.26	$ 38,734,071.31	$ 44,832,910.37	$ 33,484,659.73	$ 41,697,904.83	$ 42,238,686.50	$ 61,059,939.86	$391,033,523
Admin. Division											
Admin Total	$ 320,000.00	$ 360,000.00	$ 435,000.00	$ 315,000.00	$ 235,000.00	$ 150,000.00	$ 150,000.00	$ 150,000.00	$ 150,000.00	$ 150,000.00	$ 2,415,000.00
Anticipated Debt/Grant Funding	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue Funded	**$ 320,000.00**	**$ 360,000.00**	**$ 435,000.00**	**$ 315,000.00**	**$ 235,000.00**	**$ 150,000.00**	**$ 150,000.00**	**$ 150,000.00**	**$ 150,000.00**	**$ 150,000.00**	$ 2,415,000.00
Security Projects	$ 70,000.00	$ 110,000.00	$ 185,000.00	$ 10,000.00	$ 10,000.00	$ -	$ -	$ -	$ -	$ -	$ 385,000.00
Building Updates	$ 150,000.00	$ 150,000.00	$ 150,000.00	$ 150,000.00	$ 50,000.00	$ 50,000.00	$ 50,000.00	$ 50,000.00	$ 50,000.00	$ 50,000.00	$ 900,000.00
Small Caps < $100,000	$ 100,000.00	$ 100,000.00	$ 100,000.00	$ 100,000.00	$ 100,000.00	$ 100,000.00	$ 100,000.00	$ 100,000.00	$ 100,000.00	$ 100,000.00	$ 1,000,000.00
Vehicles < $100,000	$ -	$ -	$ -	$ 55,000.00	$ 75,000.00						$ 130,000.00
Business Division											
Business Total	$ 4,223,000.00	$ 4,071,900.00	$ 3,864,249.50	$ 5,198,429.49	$ 4,926,926.62	$ 8,365,012.38	$ 1,858,709.11	$ 1,977,040.06	$ 2,146,029.43	$ 1,873,939.86	$ 38,505,236.45
Anticipated Debt/Grant Funding	$ 50,000.00	$ 50,000.00	$ 50,000.00								$ 150,000.00
Total Revenue Funded	**$ 4,173,000.00**	**$ 4,021,900.00**	**$ 3,814,249.50**	**$ 5,198,429.49**	**$ 4,926,926.62**	**$ 8,365,012.38**	**$ 1,858,709.11**	**$ 1,977,040.06**	**$ 2,146,029.43**	**$ 1,873,939.86**	$ 38,355,236.45
Register Replacement	$ 2,800,000.00	$ 2,940,000.00	$ 3,087,000.00	$ 3,241,000.00	$ 3,403,000.00	$ 3,574,000.00	$ 150,000.00	$ 150,000.00	$ 150,000.00	$ 150,000.00	$ 19,645,000.00
Meter Replacements	$ 308,000.00	$ 316,000.00	$ 323,900.00	$ 333,617.00	$ 343,625.51	$ 353,934.28	$ 364,552.30	$ 375,488.87	$ 386,753.54	$ 398,356.15	$ 3,504,227.65
Advanced Metering Infrastructure	$ 150,000.00	$ 150,000.00	$ 150,000.00								$ 450,000.00
Technology	$ 910,000.00	$ 609,250.00	$ 245,000.00	$ 1,563,712.50	$ 1,118,398.13	$ 4,373,318.03	$ 1,278,483.93	$ 1,383,908.13	$ 1,539,603.54	$ 1,325,583.71	$ 14,347,257.97
Server Replacement	$ 30,000.00	$ 31,500.00		$ 33,075.00	$ 34,728.75	$ 36,465.19	$ 38,288.45	$ 40,202.87	$ 42,213.01	$ 44,323.66	$ 330,796.93
VDI Host Replacement	$ 55,000.00	$ 57,750.00	$ 25,000.00	$ 60,637.50	$ 63,669.38	$ 66,852.84	$ 70,195.49	$ 73,705.26	$ 77,390.52	$ 81,260.05	$ 631,461.04
Cyber Security - SIEM	$ 200,000.00										$ 200,000.00
EAMS Extensions	$ 500,000.00										$ 500,000.00
Cyber Security - Virus Protection Upgrade	$ 60,000.00										$ 60,000.00
Server Switches Replacement	$ 20,000.00										$ 20,000.00
Hardware Replacement	$ 20,000.00	$ 20,000.00	$ 20,000.00	$ 20,000.00	$ 20,000.00	$ 20,000.00	$ 20,000.00	$ 20,000.00	$ 20,000.00	$ 200,000.00	$ 380,000.00
CIS Upgrade						$ 3,000,000.00					$ 3,000,000.00
EDMS - Document/Management System Upgrade		$ 300,000.00									$ 300,000.00
GIS Utility Network				$ 250,000.00							$ 250,000.00
Customer Relations Management				$ 200,000.00							$ 200,000.00
Monthly Billing - CIS				$ 1,000,000.00							$ 1,000,000.00
AI Solutions			$ 200,000.00								$ 200,000.00
Agnostic Mobile Workforce System		$ 200,000.00									$ 200,000.00
GIS Enhancements						$ 250,000.00	$ 150,000.00				$ 400,000.00
Hydraulic Model Enhancements	$ 25,000.00										$ 25,000.00
Asset Crtiticality Software									$ 150,000.00		$ 150,000.00
Building Information Modeling								$ 250,000.00			$ 250,000.00
Digitial Twin									$ 250,000.00		$ 250,000.00
Future IT Projects					$ 1,000,000.00	$ 1,000,000.00	$ 1,000,000.00	$ 1,000,000.00	$ 1,000,000.00	$ 1,000,000.00	$ 6,000,000.00
											$ -
Vehicles	$ 55,000.00	$ 56,650.00	$ 58,349.50	$ 60,099.99	$ 61,902.98	$ 63,760.07	$ 65,672.88	$ 67,643.06	$ 69,672.35		$ 558,750.84

10-Year Capital Improvement Plan Summary

Saint Paul Regional Water Services

August 29, 2024

	Project Year										
	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total 10 Year
Engineering Division											
Engineering Total	$ 230,000.00	$ 241,000.00	$ 253,000.00	$ 265,000.00	$ 278,000.00	$ 292,000.00	$ 306,000.00	$ 322,000.00	$ 339,000.00	$ 347,000.00	$ 2,873,000.00
Anticipated Debt/Grant Funding	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue Funded	**$ 230,000.00**	**$ 241,000.00**	**$ 253,000.00**	**$ 265,000.00**	**$ 278,000.00**	**$ 292,000.00**	**$ 306,000.00**	**$ 322,000.00**	**$ 339,000.00**	**$ 347,000.00**	$ 2,873,000.00
Leak Detection, Locating, & GPS Equipment	$ 60,000.00	$ 66,000.00	$ 73,000.00	$ 80,000.00	$ 88,000.00	$ 97,000.00	$ 106,000.00	$ 117,000.00	$ 129,000.00	$ 132,000.00	$ 948,000.00
Small Caps < $100,000	$ 20,000.00	$ 20,000.00	$ 20,000.00	$ 20,000.00	$ 20,000.00	$ 20,000.00	$ 20,000.00	$ 20,000.00	$ 20,000.00	$ 20,000.00	$ 200,000.00
Vehicles < $100,000	$ 150,000.00	$ 155,000.00	$ 160,000.00	$ 165,000.00	$ 170,000.00	$ 175,000.00	$ 180,000.00	$ 185,000.00	$ 190,000.00	$ 195,000.00	$ 1,725,000.00

10-Year Capital Improvement Plan Summary

Saint Paul Regional Water Services

August 29, 2024

	Project Year										
	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total 10 Year
Distribution Division											
Distribution Total	$ 19,035,120.38	$ 19,626,309.91	$ 20,909,468.70	$ 20,765,872.77	$ 22,528,144.69	$ 25,241,897.99	$ 27,161,950.62	$ 34,096,864.76	$ 35,415,657.07	$ 35,974,000.00	$ 260,755,286.90
Anticipated Debt/Grant Funding	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue Funded	**$ 19,035,120.38**	**$ 19,626,309.91**	**$ 20,909,468.70**	**$ 20,765,872.77**	**$ 22,528,144.69**	**$ 25,241,897.99**	**$ 27,161,950.62**	**$ 34,096,864.76**	**$ 35,415,657.07**	**$ 35,974,000.00**	$ 260,755,286.90
Valve Replacement	$ 775,000.00	$ 800,000.00	$ 825,000.00	$ 850,000.00	$ 875,000.00	$ 900,000.00	$ 925,000.00	$ 950,000.00	$ 980,000.00	$ 1,009,000.00	$ 8,889,000.00
New Water Service Connections (Rev/Exp Item)	$ 175,000.00	$ 175,000.00	$ 175,000.00	$ 175,000.00	$ 175,000.00	$ 175,000.00	$ 175,000.00	$ 175,000.00	$ 175,000.00	$ 175,000.00	$ 1,750,000.00
Hydrant Replacement	$ 999,000.00	$ 1,024,000.00	$ 1,050,000.00	$ 1,050,000.00	$ 1,050,000.00	$ 1,076,000.00	$ 1,100,000.00	$ 1,100,000.00	$ 1,100,000.00	$ 1,167,000.00	$ 10,716,000.00
Pump Stations - Tier 1 Priority	$ 512,275.84	$ 1,089,936.77	$ 1,061,290.89	$ 647,130.36	$ 730,435.25	$ 736,913.68	$ 224,062.00	$ 665,000.00	$ 75,000.00	$ 845,000.00	$ 6,587,044.80
Hazel Park	$ 308,256.00	$ -	$ 11,698.59	$ -	$ 604,822.49	$ -	$ -	$ -	$ -		$ 924,777.08
Recoat Piping and Valves	$ 54,080.00										$ 54,080.00
New Standby Generator	$ 237,952.00										$ 237,952.00
Replace Pressure and Flow Instrumentation	$ 16,224.00										$ 16,224.00
Caulk Brick Cracks			$ 5,849.29								$ 5,849.29
Concrete Foundation Repair			$ 5,849.29								$ 5,849.29
Replace Roof Facia					$ 25,306.38						$ 25,306.38
Patch Glazed Tile					$ 6,326.60						$ 6,326.60
Caulk Seam Sidewalk and Foundation					$ 3,795.96						$ 3,795.96
Replace Pumps and Valves					$ 569,393.56						$ 569,393.56
Roselawn	$ 10,816.00	$ 16,872.96	$ 107,986.94	$ -	$ -	$ 661,913.68	$ -	$ -	$ -		$ 797,589.59
Replace Electrical Box Covers	$ 3,244.80										$ 3,244.80
Add Dehumidifiers		$ 16,872.96									$ 16,872.96
Replace Pressure and Flow Instrumentation	$ 7,571.20										$ 7,571.20
Caulk Corner Cracks in Brick			$ 5,624.32								$ 5,624.32
Caulk Gap at Retaining Wall			$ 5,624.32								$ 5,624.32
Patch Wood Trim			$ 5,624.32								$ 5,624.32
Repaint Wood Trim			$ 3,374.59								$ 3,374.59
Repaint Railings and Floor Plates			$ 3,374.59								$ 3,374.59
Replace MCC			$ 50,618.88								$ 50,618.88
Replace MTS and STS			$ 6,749.18								$ 6,749.18
Replace Lighting transformer and panelboard			$ 26,996.74								$ 26,996.74
Repaint Interior CMU wall						$ 13,159.32					$ 13,159.32
Replace Floor Paint						$ 13,159.32					$ 13,159.32
Replace Double Leaf Doords						$ 9,211.52					$ 9,211.52
Replace Window Lintel						$ 26,318.64					$ 26,318.64
Caulk Crack at Concrete Stairs						$ 3,947.80					$ 3,947.80
Caulk Concrete Apron at Retaining Wall						$ 3,947.80					$ 3,947.80
Pump and Valve Replacement						$ 592,169.30					$ 592,169.30
West St. Paul	$ 16,224.00	$ -	$ 26,321.82	$ -	$ -	$ -	$ 6,842.85	$ -	$ -		$ 49,388.66
Asbestos Testing	$ 10,816.00										$ 10,816.00
Replace Pressure Instrumentation	$ 5,408.00										$ 5,408.00
Caulk Mortar Joints around Windows			$ 8,773.94								$ 8,773.94
Repair Rusty Lintel at Windows			$ 17,547.88								$ 17,547.88
Repair Cracked Quarry Tile on Floor							$ 6,842.85				$ 6,842.85
Replace Pumps, Valves and Motors										$ 770,000.00	$ 770,000.00
Beebe	$ 16,224.00	$ 1,011,815.17	$ -	$ -	$ 50,612.76	$ -	$ -	$ -	$ -		$ 1,078,651.93
Replace Damaged Stucco		$ 56,243.20									$ 56,243.20
Replace Pressure and Flow Instrumentation	$ 16,224.00										$ 16,224.00
Repair Interior CMU Cracks		$ 5,624.32									$ 5,624.32
Caulk Concrete Foundation Wall Cracks		$ 5,624.32									$ 5,624.32
Extend Roof Drain Outlets from Bldg		$ 5,624.32									$ 5,624.32
Repair Stair, Platform, Railings		$ 8,436.48									$ 8,436.48
Discharge Valve Actuators		$ 168,729.60									$ 168,729.60
Replace TiaStar VFD		$ 56,243.20									$ 56,243.20
Replace Pumps and Valves		$ 506,188.80									$ 506,188.80

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	Project Year										
	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total 10 Year
Replace Arrow Hart Switchboard		$ 49,494.02									$ 49,494.02
Install Automatic Transfer Switch		$ 8,998.91									$ 8,998.91
Install Permanent Generator		$ 112,486.40									$ 112,486.40
Replace Lighting Transformer and Panelboard		$ 28,121.60									$ 28,121.60
Repaint CMU Interior Walls					$ 18,979.79						$ 18,979.79
Replace Floor Paint					$ 18,979.79						$ 18,979.79
Xcel to Replace Transformer					$ 8,857.23						$ 8,857.23
Caulk CMU Apron					$ 3,795.96						$ 3,795.96
St. Anthony	$ 32,880.64	$ -	$ 865,283.54	$ -	$ -	$ -	$ 5,474.28	$ -	$ -		$ 903,638.46
Culk Windows	$ 3,028.48										$ 3,028.48
Replace Steel Lintel	$ 12,113.92										$ 12,113.92
Add Exit Sign	$ 1,514.24										$ 1,514.24
Replace Pressure and Flow Instrumentation	$ 16,224.00										$ 16,224.00
Caulk Cracks in bricks			$ 3,406.63								$ 3,406.63
Repair Exterior Metal Trim			$ 3,406.63								$ 3,406.63
Replace Exterior Doors			$ 6,813.26								$ 6,813.26
Replace MCC, Lighting Transformer			$ 121,665.29								$ 121,665.29
Repair Cracked Interior Tile							$ 5,474.28				$ 5,474.28
Replace Pumps and Valves			$ 729,991.74								$ 729,991.74
Highland #1	$ 21,632.00	$ -	$ -	$ 27,983.02	$ -	$ -	$ 40,945.05	$ -	$ -		$ 90,560.07
Replace Plywood Covers on Windows	$ 5,408.00										$ 5,408.00
Replace Pressure and Flow Instrumentation	$ 16,224.00										$ 16,224.00
Install New Panelboard				$ 21,899.75							$ 21,899.75
Caulk Corner Cracks				$ 6,083.26							$ 6,083.26
Repaint Concrete Walls							$ 29,246.46				$ 29,246.46
Replace Floor Paint							$ 11,698.59				$ 11,698.59
Highland #2	$ 37,856.00	$ 11,248.64	$ -	$ 459,589.97	$ -	$ -	$ -	$ -	$ -		$ 508,694.61
Intumescent Paint on Foam Insulation	$ 21,632.00										$ 21,632.00
Moisture Leak - Entry Tunnel		$ 11,248.64									$ 11,248.64
Pressure and Flow Instrumentation	$ 16,224.00										$ 16,224.00
Roof Repair at Entry				$ 18,979.79							$ 18,979.79
Paving Upper Level				$ 50,612.76							$ 50,612.76
Replace Pump 5				$ 189,797.85							$ 189,797.85
Replace Double Leaf Doors				$ 18,979.79							$ 18,979.79
Replace Floor Paint				$ 18,979.79							$ 18,979.79
Replace Pump 4				$ 162,240.00							$ 162,240.00
West Side	$ 18,387.20	$ -	$ -	$ 18,249.79	$ -	$ -	$ 95,799.83	$ -	$ -		$ 132,436.83
Replace Bituminous Driveway and Walk											$ -
Add Exit Signs	$ 2,163.20										$ 2,163.20
Replace Pressure and Flow Instrumentation	$ 16,224.00										$ 16,224.00
Chain Link Fence Repair				$ 6,083.26							$ 6,083.26
Replace Wood Retaining Wall				$ 12,166.53							$ 12,166.53
Repaint Metal Doors and Frames							$ 13,685.69				$ 13,685.69
Replace Floor Paint							$ 20,528.54				$ 20,528.54
Replace Steel Lintel							$ 20,528.54				$ 20,528.54
Repair Glazed Wall Tile							$ 6,842.85				$ 6,842.85
Ratch and Repair Damaged CMU							$ 6,842.85				$ 6,842.85
Replace Asbestos Pipe Insulation							$ 27,371.38				$ 27,371.38
Mailand	$ -	$ -	$ -	$ 66,307.58	$ -	$ -	$ -	$ -	$ -		$ 66,307.58
Repair Interior CMU Cracks				$ 6,083.26							$ 6,083.26
Repair Exterior Wood Planks				$ 9,124.90							$ 9,124.90
Level Transformer Pad				$ 2,433.31							$ 2,433.31
Repair Loading Dock Concrete				$ 6,083.26							$ 6,083.26
Repaint Exterior Railings				$ 6,083.26							$ 6,083.26
Repaint CMU Walls				$ 18,249.79							$ 18,249.79
Replace Floor Paint				$ 18,249.79							$ 18,249.79
PRV Replacement	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 590,000.00	$ -		$ 590,000.00

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	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total 10 Year
General Contingency	$ 50,000.00	$ 50,000.00	$ 50,000.00	$ 75,000.00	$ 75,000.00	$ 75,000.00	$ 75,000.00	$ 75,000.00	$ 75,000.00	$ 75,000.00	$ 675,000.00
Water Main Replacement - Tier 1 (~180 year Replace Cycle, 6.59 mi/yr) Capital and Surcharge	$ 12,200,000.00	$ 12,690,000.00	$ 13,200,000.00	$ 13,700,000.00	$ 14,200,000.00	$ 14,800,000.00	$ 15,400,000.00	$ 16,000,000.00	$ 16,600,000.00	$ 17,300,000.00	$ 146,090,000.00
Prestressed Concrete Pipe - Tier 1	$ 135,000.00	$ 140,000.00	$ 145,000.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 420,000.00
West Side & Hillcrest Overflow Reg. Compliance	$ -	$ 75,000.00	$ 250,000.00	$ 250,000.00	$ -	$ -	$ -	$ -	$ -	$ -	$ 575,000.00
Storage Improvements	$ 1,421,580.54	$ 1,317,373.14	$ 1,285,319.02	$ 60,490.21	$ 1,117,385.88	$ 1,241,026.78	$ 1,303,827.25	$ 48,864.76	$ 84,657.07	$ -	$ 7,880,524.66
Cope Ave. Tank	$ -	$ -	$ -	$ 9,489.89	$ -	$ -	$ -	$ -	$ 15,394.54		$ 24,884.43
Interior Tank Inspection (Alt 5-year cycle)	$ -	$ -	$ -	$ 9,489.89	$ -	$ -	$ -	$ -	$ -		$ 9,489.89
Full Tank Inspection (10-year Cycle)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 15,394.54		$ 15,394.54
Cottage Tank	$ 11,248.64	$ 1,236,540.50	$ -	$ 8,857.23	$ -	$ -	$ 10,674.84	$ -	$ -		$ 1,267,321.21
Interior Tank Inspection (Alt 5-year cycle)	$ -	$ -	$ -	$ -	$ -	$ -	$ 10,674.84	$ -	$ -		$ 10,674.84
Full Tank Inspection (10-year Cycle)	$ 11,248.64	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ 11,248.64
2-year Warranty Inspection - 2021 Paint (Warranty)	$ -	$ -	$ -	$ 8,857.23	$ -	$ -	$ -	$ -	$ -		$ 8,857.23
Inter/Exterior Paint Coating (20 years)	$ -	$ 1,169,858.56	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ 1,169,858.56
Instrumentation, Comms Upgrades (10-year Cycle)	$ -	$ 8,189.01	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ 8,189.01
Repair Concrete Footing (2020 Report)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ -
Interior Structural Grinding and Caulking (2020 Report)	$ -	$ 8,189.01	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ 8,189.01
Replace Handrail System OSHA Compl (2020 Report)	$ -	$ 29,246.46	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ 29,246.46
Replace Roof Vent Frost Free AWWA (2020 Report)	$ -	$ 14,038.30	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ 14,038.30
Replace Manway Bolts (2020 Report)	$ -	$ 1,169.86	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ 1,169.86
Modify Cover overlap on Top MHs (2020 Report)	$ -	$ 5,849.29	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ 5,849.29
Dale Street Reservoir											$ -
Ferndale Tank	$ -	$ -	$ -	$ 9,489.89	$ -	$ -	$ -	$ -	$ 15,394.54		$ 24,884.43
Interior Tank Inspection (Alt 5-year cycle)	$ -	$ -	$ -	$ 9,489.89		$ -	$ -	$ -	$ -		$ 9,489.89
Full Tank Inspection (10-year Cycle)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 15,394.54		$ 15,394.54
Highland #2 Tank	$ -	$ 8,189.01	$ -	$ -	$ -	$ -	$ 10,674.84	$ -	$ -		$ 18,863.85
Interior Tank Inspection (Alt 5/10-year cycle)	$ -	$ -	$ -	$ -	$ -	$ -	$ 10,674.84	$ -	$ -		$ 10,674.84
2-year Warranty Inspection - 2021 Paint (Warranty)	$ -	$ 8,189.01	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ 8,189.01
Highland #3 Tank	$ 1,317,215.74	$ -	$ 9,124.90	$ -	$ -	$ -	$ -	$ 11,101.83	$ -		$ 1,337,442.47
Interior Tank Inspection (Alt 5/10-year cycle)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 11,101.83	$ -		$ 11,101.83
2-year Warranty Inspection - 2021 Paint (Warranty)	$ -	$ -	$ 9,124.90	$ -	$ -	$ -	$ -	$ -	$ -		$ 9,124.90
Instrumentation, Comms Upgrades (10-year Cycle)	$ 7,874.05	$ -	$ -	$ -	$ -	$ -	$ -		$ -		$ 7,874.05
Interior Grinding and Caulking (2020 Report)	$ 16,872.96	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ 16,872.96
Alum Jacket Fill Pipe (2020 Report)	$ 5,624.32	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ 5,624.32
Repair/Mod Interior Lighting (2020 Report)	$ 2,249.73	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ 2,249.73
Replace Handrail System (2020 Report)	$ 33,745.92	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ 33,745.92
Replace Manway Bolts (2020 Report)	$ 1,124.86	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ 1,124.86
Replace Overflow Screen (2020 Report)	$ 1,124.86	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ 1,124.86
Interior and Ext Full Paint (2020 Report)	$ 1,237,350.40	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ 1,237,350.40
Misc Repair Items (2020 Report)	$ 11,248.64	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ 11,248.64
McKnight Tank	$ 8,436.48	$ -	$ -	$ -	$ 1,088,174.36	$ 9,579.98	$ -	$ 17,762.93	$ 11,545.91		$ 1,135,499.66
Interior Tank Inspection (Alt 5/10-year cycle)	$ 8,436.48	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 11,545.91		$ 19,982.39
Full Tank Inspection (10-year Cycle)	$ -	$ -	$ -	$ -	$ 12,653.19	$ -	$ -	$ -	$ -		$ 12,653.19
2-year Warranty Inspection - 2021 Paint (Warranty)	$ -	$ -	$ -	$ -	$ -	$ 9,579.98	$ -	$ -	$ -		$ 9,579.98
Inter/Exterior Paint Coating (20 years)	$ -	$ -	$ -	$ -	$ 1,043,888.19	$ -	$ -	$ -	$ -		$ 1,043,888.19
Instrumentation, Comms Upgrades (10-year Cycle)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 17,762.93	$ -		$ 17,762.93
Interior Structural Grinding and Caulking (2020 Report)	$ -	$ -	$ -	$ -	$ 6,326.60	$ -	$ -	$ -	$ -		$ 6,326.60
Repair Damaged Roof Panel & Fasteners (2020 Report)	$ -	$ -	$ -	$ -	$ 10,122.55	$ -	$ -	$ -	$ -		$ 10,122.55
Replace Roof Vent Frost Free AWWA (2020 Report)	$ -	$ -	$ -	$ -	$ 12,653.19	$ -	$ -	$ -	$ -		$ 12,653.19
Replace Manway Bolts (2020 Report)	$ -	$ -	$ -	$ -	$ 1,265.32	$ -	$ -	$ -	$ -		$ 1,265.32
Replace Overflow Screen (2020 Report)	$ -	$ -	$ -	$ -	$ 1,265.32	$ -	$ -	$ -	$ -		$ 1,265.32
Mendota Heights Tank	$ 19,685.12	$ 8,189.01	$ -	$ -	$ -	$ 13,685.69	$ 1,241,839.56	$ -	$ 10,776.18		$ 1,294,175.56

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	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total 10 Year
Pressure Wash	$ 11,248.64	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ 11,248.64
Interior Tank Inspection (Alt 5-year cycle)	$ 8,436.48	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ 8,436.48
Maint. - Full Tank Inspection (10-year Cycle)	$ -	$ -	$ -	$ -	$ -	$ 13,685.69	$ -	$ -	$ -		$ 13,685.69
Warranty Inspection (2-Year)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 10,776.18		$ 10,776.18
Inter/Exterior Paint Coating (20 years)	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,138,649.45	$ -	$ -		$ 1,138,649.45
Instrumentation, Comms Upgrades (10-year Cycle)	$ -	$ 8,189.01	$ -	$ -	$ -	$ -		$ -	$ -		$ 8,189.01
Interior Structural Grinding and Caulking (2020 Report)	$ -	$ -	$ -	$ -	$ -	$ -	$ 14,233.12	$ -	$ -		$ 14,233.12
Wet Riser Grate and Manway (2020 Report)	$ -	$ -	$ -	$ -	$ -	$ -	$ 21,349.68	$ -	$ -		$ 21,349.68
Install Mud Valve (2020 Report)	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,558.28	$ -	$ -		$ 3,558.28
Modify Lighting (2020 Report)	$ -	$ -	$ -	$ -	$ -	$ -	$ 7,116.56	$ -	$ -		$ 7,116.56
Install Handrail System (2020 Report)	$ -	$ -	$ -	$ -	$ -	$ -	$ 42,699.35	$ -	$ -		$ 42,699.35
Replace Roof Vent - AWWA (2020 Report)	$ -	$ -	$ -	$ -	$ -	$ -	$ 11,386.49	$ -	$ -		$ 11,386.49
Replace Manway Bolts (2020 Report)	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,423.31	$ -	$ -		$ 1,423.31
Replace Overflow Screen (2020 Report)	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,423.31	$ -	$ -		$ 1,423.31
St. Anthony Tank	$ 8,436.48	$ 8,189.01	$ -	$ -	$ -	$ 13,685.69	$ -	$ -	$ -		$ 30,311.18
Interior Tank Inspection (Alt 5-year cycle)	$ 8,436.48	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ 8,436.48
Full Tank Inspection (10-year Cycle)	$ -	$ -	$ -	$ -	$ -	$ 13,685.69	$ -	$ -	$ -		$ 13,685.69
Instrumentation, Comms Upgrades (10-year Cycle)	$ -	$ 8,189.01	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ 8,189.01
State Fair Tank	$ 19,685.12	$ 8,189.01	$ -	$ 12,653.19	$ -	$ 1,156,704.03	$ 9,963.18	$ -	$ 11,545.91		$ 1,218,740.44
Pressure Wash (Maint)	$ 11,248.64	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ 11,248.64
Interior Tank Inspection (Alt 5/10-year cycle)	$ 8,436.48	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 11,545.91		$ 19,982.39
Full Tank Inspection (10-year Cycle)	$ -	$ -	$ -	$ 12,653.19	$ -	$ -	$ -	$ -	$ -		$ 12,653.19
Warranty Inspection (2-Year)	$ -	$ -	$ -	$ -	$ -	$ -	$ 9,963.18	$ -	$ -		$ 9,963.18
Inter/Exterior Paint Coating (20 years)	$ -	$ -	$ -	$ -	$ -	$ 1,085,643.72	$ -	$ -	$ -		$ 1,085,643.72
Instrumentation, Comms Upgrades (10-year Cycle)	$ -	$ 8,189.01	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ 8,189.01
Interior Structural Grinding and Caulking (2020 Report)	$ -	$ -	$ -	$ -	$ -	$ 13,159.32	$ -	$ -	$ -		$ 13,159.32
Grout Replacement (2020 Report)	$ -	$ -	$ -	$ -	$ -	$ 5,263.73	$ -	$ -	$ -		$ 5,263.73
Modify Lighting (2020 Report)	$ -	$ -	$ -	$ -	$ -	$ 6,579.66	$ -	$ -	$ -		$ 6,579.66
Install Handrail System (2020 Report)	$ -	$ -	$ -	$ -	$ -	$ 32,898.29	$ -	$ -	$ -		$ 32,898.29
Replace Roof Vent - AWWA (2020 Report)	$ -	$ -	$ -	$ -	$ -	$ 10,527.45	$ -	$ -	$ -		$ 10,527.45
Replace Manway Bolts (2020 Report)	$ -	$ -	$ -	$ -	$ -	$ 1,315.93	$ -	$ -	$ -		$ 1,315.93
Replace Overflow Screen (2020 Report)	$ -	$ -	$ -	$ -	$ -	$ 1,315.93	$ -	$ -	$ -		$ 1,315.93
Sterling Tank	$ 8,436.48	$ 8,189.01	$ -	$ -	$ -	$ 13,685.69	$ -	$ -	$ -		$ 30,311.18
Interior Tank Inspection (Alt 5 year cycle)	$ 8,436.48	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ 8,436.48
Full Tank Inspection (10-year Cycle)	$ -	$ -	$ -	$ -	$ -	$ 13,685.69	$ -	$ -	$ -		$ 13,685.69
Instrumentation, Comms Upgrades (10-year Cycle)	$ -	$ 8,189.01	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ 8,189.01
Stillwater Tank	$ -	$ 11,698.59	$ 1,256,194.12	$ -	$ 9,211.52	$ -	$ 10,674.84	$ -	$ -		$ 1,287,779.07
Exterior Cleaning	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ -
Interior Tank Inspection (Alt 5-year cycle)	$ -	$ -	$ -	$ -	$ -	$ -	$ 10,674.84	$ -	$ -		$ 10,674.84
Full Tank Inspection (10-year Cycle)	$ -	$ 11,698.59	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ 11,698.59
Warranty Inspection (2-Year warranty)	$ -	$ -	$ -	$ -	$ 9,211.52	$ -	$ -	$ -	$ -		$ 9,211.52
Inter/Exterior Paint Coating (Painting)	$ -	$ -	$ 1,186,236.58	$ -	$ -	$ -	$ -	$ -	$ -		$ 1,186,236.58
Instrumentation, Comms Upgrades (10-year Cycle)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ -
Grinding)	$ -	$ -	$ 12,166.53	$ -	$ -	$ -	$ -	$ -	$ -		$ 12,166.53
Install Mud Valve (Interior Mud Valve)	$ -	$ -	$ 3,041.63	$ -	$ -	$ -	$ -	$ -	$ -		$ 3,041.63
Grout Replacement (Exterior Grout Repl.)	$ -	$ -	$ 6,083.26	$ -	$ -	$ -	$ -	$ -	$ -		$ 6,083.26
Install Handrail System (Ext Hand Rail System)	$ -	$ -	$ 36,499.59	$ -	$ -	$ -	$ -	$ -	$ -		$ 36,499.59
Replace Roof Vent - AWWA (Roof Vent Repl.)	$ -	$ -	$ 9,733.22	$ -	$ -	$ -	$ -	$ -	$ -		$ 9,733.22
Replace Manway Bolts (Repl Manway Bolts)	$ -	$ -	$ 1,216.65	$ -	$ -	$ -	$ -	$ -	$ -		$ 1,216.65
Replace Overflow Screen (Repl Overflow Screen)	$ -	$ -	$ 1,216.65	$ -	$ -	$ -	$ -	$ -	$ -		$ 1,216.65
West Side Reservoir											$ -
West St. Paul Tank	$ 8,436.48	$ 8,189.01	$ -	$ -	$ -	$ 13,685.69	$ -	$ -	$ -		$ 30,311.18
Interior Tank Inspection (Alt 5/10-year cycle)	$ 8,436.48	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ 8,436.48
Full Tank Inspection (10-year Cycle)	$ -	$ -	$ -	$ -	$ -	$ 13,685.69	$ -	$ -	$ -		$ 13,685.69

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	Project Year										
	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total 10 Year
Inter/Exterior Paint Coating (20 years)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ -
Instrumentation, Comms Upgrades (10-year Cycle)	$ -	$ 8,189.01	$ -	$ -	$ -	$ -		$ -	$ -		$ 8,189.01
General Contingency	$ 20,000	$ 20,000	$ 20,000	$ 20,000	$ 20,000	$ 20,000	$ 20,000	$ 20,000	$ 20,000		$ 180,000.00
Base ROW Lead Funding	$ 200,000.00	$ 200,000.00	$ 200,000.00	$ 200,000.00	$ 200,000.00	$ 200,000.00	$ 200,000.00	$ 200,000.00	$ 200,000.00	$ 200,000.00	$ 2,000,000.00
Large Valve Replacement	$ 190,000.00	$ 195,000.00	$ 200,000.00	$ 205,000.00	$ 210,000.00	$ 215,000.00	$ 220,000.00	$ 225,000.00	$ 230,000.00	$ 237,000.00	$ 2,127,000.00
Water Main Replacement - Tier 2 (~150 year Replace Cycle, 7.91 mi/yr) Capital and Surcharge	$ 1,000,000.00	$ 1,000,000.00	$ 1,500,000.00	$ 2,000,000.00	$ 2,000,000.00	$ 2,970,000.00	$ 3,080,000.00	$ 3,210,000.00	$ 3,340,000.00	$ 3,474,000.00	$ 23,574,000.00
Vehicle & Small Cap Replacement	$ 845,000.00	$ 870,000.00	$ 895,000.00	$ 920,000.00	$ 945,000.00	$ 975,000.00	$ 1,005,000.00	$ 1,025,000.00	$ 1,055,000.00	$ 1,087,000.00	$ 9,622,000.00
Tunnel Rehabilitation - Tier 1	$ 489,000.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 489,000.00
Prestressed Concrete Pipe - Tier 2	$ -	$ -	$ -	$ 150,000.00	$ 155,000.00	$ 160,000.00	$ 165,000.00	$ 170,000.00	$ 175,000.00	$ 180,000.00	$ 1,155,000.00
Pump Stations - Tier 2 Priority	$ 93,264.00	$ 50,000.00	$ 122,858.79	$ 175,252.20	$ 184,323.56	$ 168,957.53	$ 772,061.36	$ 75,000.00	$ 725,000.00	$ -	$ 2,366,717.44
Hazel Park	$ -	$ -	$ 64,342.22	$ -	$ 72,123.18	$ -	$ -	$ -	$ -		$ 136,465.40
Replace Asphalt Driveway			$ 58,492.93								$ 58,492.93
Replace Sunken Sidewalk			$ 5,849.29								$ 5,849.29
Install Floor Treatment					$ 18,979.79						$ 18,979.79
Security & Electrical Misc					$ 53,143.40						$ 53,143.40
Roselawn	$ -	$ -	$ -	$ -	$ -	$ 38,688.39	$ -	$ -	$ -		$ 38,688.39
Security & Electrical Misc						$ 38,688.39					$ 38,688.39
West St. Paul	$ -	$ -	$ -	$ -	$ -	$ -	$ 40,235.93	$ -	$ -		$ 40,235.93
Security & Electrical Misc							$ 40,235.93				$ 40,235.93
Beebe	$ -	$ -	$ -	$ -	$ 37,200.38	$ -	$ -	$ -	$ -		$ 37,200.38
Security & Electrical Misc					$ 37,200.38						$ 37,200.38
St. Anthony	$ -	$ -	$ 8,516.57	$ -	$ -	$ -	$ 67,059.88	$ -	$ -		$ 75,576.45
Replace Bituminous Driveway			$ 8,516.57								$ 8,516.57
Replace Floor Paint							$ 9,579.98				$ 9,579.98
Security & Electrical Misc							$ 57,479.90				$ 57,479.90
Highland #1	$ -	$ -	$ -	$ -	$ -	$ 27,634.57	$ 532,285.64	$ -	$ -		$ 559,920.21
Replace Restroom Fixtures							$ 5,849.29				$ 5,849.29
Security & Electrical Misc						$ 27,634.57	$ -				$ 27,634.57
Replace Pumps and Valves							$ 526,436.35				$ 526,436.35
Highland #2	$ -	$ -	$ -	$ -	$ -	$ 27,634.57	$ -	$ -	$ -		$ 27,634.57
Security & Electrical Misc						$ 27,634.57					$ 27,634.57
West Side	$ 43,264.00	$ -	$ -	$ 30,416.32	$ -	$ -	$ 57,479.90	$ -	$ -		$ 131,160.22
Replace Bituminous Driveway and Walk	$ 43,264.00										$ 43,264.00
Drainage Improvements				$ 30,416.32							$ 30,416.32
Security & Electrical Misc							$ 57,479.90				$ 57,479.90
Mailand	$ -	$ -	$ -	$ 69,835.88	$ -	$ -	$ -	$ -	$ -		$ 69,835.88
Replace Concrete Driveway				$ 34,066.28							$ 34,066.28
Security & Electrical Misc				$ 35,769.60							$ 35,769.60
Altitude Valve Replacement	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 650,000.00		$ 650,000.00
General Contingency	$ 50,000.00	$ 50,000.00	$ 50,000.00	$ 75,000.00	$ 75,000.00	$ 75,000.00	$ 75,000.00	$ 75,000.00	$ 75,000.00		$ 600,000.00
Water Main Replacement - Tier 3 (~125 year Replace Cycle, 9.50 mi/yr) Capital and Surcharge	$ -	$ -	$ -	$ -	$ -	$ 1,000,000.00	$ 2,000,000.00	$ 3,850,000.00	$ 4,000,000.00	$ 4,120,000.00	$ 14,970,000.00
Water Main Replacement - Tier 4 (~100 year Replace Cycle, 11.87 mi/yr) Capital and Surcharge	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 5,770,000.00	$ 6,000,000.00	$ 6,180,000.00	$ 17,950,000.00
Tunnel Rehabilitation - Tier 2	$ -	$ -		$ 383,000.00	$ 686,000.00	$ 624,000.00	$ 592,000.00	$ 633,000.00	$ 676,000.00	$ -	$ 3,594,000.00
Campus Cap TBD	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

10-Year Capital Improvement Plan Summary

Saint Paul Regional Water Services

August 29, 2024

	Project Year										
	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total 10 Year
Production Division											
Production Total	$ 16,036,000.00	$ 4,955,000.00	$ 2,770,000.00	$ 5,111,000.00	$ 10,766,000.00	$ 10,784,000.00	$ 4,008,000.00	$ 5,152,000.00	$ 4,188,000.00	$ 22,715,000.00	$ 86,485,000.00
Anticipated Debt/Grant Funding	$ 12,000,000.00	$ -	$ -		$ 7,500,000.00	$ 7,500,000.00	$ -	$ -	$ -	$ 18,000,000.00	$ 45,000,000.00
Total Revenue Funded	**$ 4,036,000.00**	**$ 4,955,000.00**	**$ 2,770,000.00**	**$ 5,111,000.00**	**$ 3,266,000.00**	**$ 3,284,000.00**	**$ 4,008,000.00**	**$ 5,152,000.00**	**$ 4,188,000.00**	**$ 4,715,000.00**	$ 41,485,000.00
Buildings, Structures, and Properties	$ 45,000.00	$ 150,000.00	$ 1,150,000.00	$ -	$ 7,500,000.00	$ 8,850,000.00	$ 680,000.00	$ -	$ -	$ 400,000.00	$ 18,775,000.00
Sump Pump Improvements (Pump Room Sub-Floor)	$15,000.00										$ 15,000.00
Sump Pump System Replacement - Dewatering Building	$15,000.00										$ 15,000.00
Thickener Building Sump Pump Replacement	$15,000.00										$ 15,000.00
Groundskeeping Storage Facilities (McCarron's Campus)						$330,000.00					$ 330,000.00
Surge Tank Construction (in Prep. For LS Reservoir Demo.)		$150,000.00	$1,150,000.00								$ 1,300,000.00
Low Service Reservoir Replacement					$ 7,500,000.00	$ 7,500,000.00					$ 15,000,000.00
Fire Alarm System Upgrades							$180,000.00				$ 180,000.00
Campus Repaving						$220,000.00					$ 220,000.00
Roof Replacement						$800,000.00	$500,000.00				$ 1,300,000.00
Building Upgrades 2034										$ 400,000.00	$ 400,000.00
Electrical, SCADA, and Operational Technology	$ 497,000.00	$ 195,000.00	$ 240,000.00	$ 220,000.00	$ 695,000.00	$ 845,000.00	$ 1,515,000.00	$ 685,000.00	$ 130,000.00	$ 885,000.00	$ 5,907,000.00
Replace 2 SLC PLCs in WTP	$78,000.00										$ 78,000.00
Electrical - Purchase Fiber Splicing Tools & Testing Tools	$20,000.00										$ 20,000.00
Electrical - Infrared Camera to Spot Electrical Issues	$12,000.00										$ 12,000.00
Replace or Add SCADA Instruments to Improve Critical Data Accuracy	$35,000.00										$ 35,000.00
Turbidimeter Improvements	$62,000.00										$ 62,000.00
Replace 13 Remaining SLC PLCs at Remote Sites	$150,000.00	$ 150,000.00	$ 150,000.00	$ 175,000.00							$ 625,000.00
Standardize SCADA Interfaces for McCarron's WTP	$140,000.00										$ 140,000.00
Replacement of SCADA Infrastructure		$45,000.00	$45,000.00	$45,000.00	$45,000.00	$45,000.00	$45,000.00	$85,000.00	$85,000.00	$85,000.00	$ 525,000.00
Replace All Remaining SLC PLCs at Vadnais Station			$45,000.00								$ 45,000.00
W64 and W72 Power Feed - Remote Monitoring							$70,000.00				$ 70,000.00
Electrical Improvements on McCarron's Campus						$800,000.00	$ 1,400,000.00			$ 350,000.00	$ 2,550,000.00
Chemical Delivery Panel for Central Chemical Areas									$45,000.00		$ 45,000.00
SCADA Redundancy in Communications to Dewatering								$200,000.00			$ 200,000.00
Switchgear H Replacement					$650,000.00						$ 650,000.00
Add Thickener Building to 480 V Electrical Loop								$400,000.00			$ 400,000.00
SCADA System Refresh 2035										$ 450,000.00	$ 450,000.00
Lab Operations	$ 80,000.00	$ 68,000.00	$ 18,000.00	$ 18,000.00	$ 18,000.00	$ 18,000.00	$ 18,000.00	$ 430,000.00	$ 30,000.00	$ 30,000.00	$ 728,000.00
Replacement of Autotitrator Lab Equipment	$80,000.00										$ 80,000.00
Microwave Digester Replacement		$50,000.00									$ 50,000.00
Purchase of Water Quality Monitoring Devices for Distribution System		$18,000.00	$18,000.00	$18,000.00	$18,000.00	$18,000.00	$18,000.00	$30,000.00	$30,000.00	$30,000.00	$ 198,000.00
ICPMS Machine with Autosampler								$400,000.00			$ 400,000.00
Raw Water Supply System	$ 450,000.00	$ 1,680,000.00	$ 250,000.00	$ 1,098,000.00	$ 1,970,000.00	$ 500,000.00	$ 565,000.00	$ 1,200,000.00	$ 500,000.00	$ 700,000.00	$ 8,913,000.00
Copper Sulfate Chemical Feed (Pleasant Lake)				$280,000.00							$ 280,000.00
Raw Water Conduit Rehabilitation (Concrete)	$250,000.00	$250,000.00	$250,000.00	$500,000.00	$500,000.00	$500,000.00	$500,000.00	$500,000.00	$500,000.00	$700,000.00	$ 4,450,000.00
Vadnais Campus Air Conditioning					$25,000.00						$ 25,000.00
Vadnais Gatehouse Improvements	$200,000.00	$1,200,000.00									$ 1,400,000.00
Obtain Water Supply to Vadnais Campus					$200,000.00						$ 200,000.00
Pleasant Lake Gatehouse Improvements				$200,000.00	$1,200,000.00						$ 1,400,000.00
Replace Two Chemical Feed Pumps at Vadnais				$43,000.00							$ 43,000.00
Vadnais Ferric Chloride Tank Replacement				$75,000.00							$ 75,000.00
Replace Two Chemical Feed Pumps at Fridley					$45,000.00						$ 45,000.00
Vadnais Copper Sulfate Tank Replacement							$65,000.00				$ 65,000.00
Lake Oxygenation Systems		$ 230,000.00									$ 230,000.00
Capital Investments in Raw Water Supply Wells								$700,000.00			$ 700,000.00
Treatment Processes and Equipment	$ 1,154,000.00	$ 1,944,000.00	$ 369,000.00	$ 3,569,000.00	$ 215,000.00	$ 40,000.00	$ 941,000.00	$ 1,242,000.00	$ 1,993,000.00	$ 20,400,000.00	$ 31,867,000.00
Filter Gallery Valving and Piping Improvements	$400,000.00			$465,000.00							$ 865,000.00
Air Scour Blower Purchase and Installation	$405,000.00										$ 405,000.00

10-Year Capital Improvement Plan Summary

Saint Paul Regional Water Services

August 29, 2024

	Project Year										
	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total 10 Year
Monochloramine Analyzer Purchase (FWR)	$29,000.00										$ 29,000.00
Shelf Spare/Redundant Pump for Filter Press Supply	$50,000.00										$ 50,000.00
Reclaim Basin Float Replacement	$40,000.00										$ 40,000.00
Pump Floor Vacuum Pump Replacement/Addition	$60,000.00										$ 60,000.00
Replace Two Chemical Feed Pumps for Fluoride (McCarron's)	$35,000.00										$ 35,000.00
Transfer Pump for Phosphoric Acid	$15,000.00										$ 15,000.00
WTP Water Quality Instruments Replacement/Upgrades	$35,000.00	$36,000.00	$37,000.00	$38,000.00	$39,000.00	$40,000.00	$41,000.00	$42,000.00	$43,000.00		$ 351,000.00
Piping Evaluation and Improvements (Sub-floor, Pump Room)	$85,000.00	$290,000.00					$300,000.00				$ 675,000.00
Sludge Press Replacement		$1,350,000.00									$ 1,350,000.00
Dewatering - Core Blow Pump Replacement		$40,000.00									$ 40,000.00
Replace Four Chemical Feed Pumps Used for Dosing Sodium Hydroxide (McCarron's)		$78,000.00									$ 78,000.00
Chlorine and Ammonia Evaporator Replacements		$90,000.00									$ 90,000.00
Wastewater Handling Improvements (Consider Plate Settlers for Sludge Lagoon Loading Reduction)		$ 60,000.00	$250,000.00	$1,450,000.00							$ 1,760,000.00
Replace Four Chemical Feed Pumps Used for Dosing Ferric Chloride (McCarron's)			$82,000.00								$ 82,000.00
Air Compressor Replacement - Dewatering Building				$80,000.00							$ 80,000.00
Air Compressor Replacement - Chlorine and Ammonia Building				$16,000.00							$ 16,000.00
Sludge Press Replacement #2				$1,350,000.00							$ 1,350,000.00
Fluoride Tank Replacement				$170,000.00							$ 170,000.00
Ferric Chloride Tank Replacement (if needed)					$176,000.00						$ 176,000.00
GAC Filter Media Replacement							$600,000.00	$1,200,000.00	$600,000.00	$2,400,000.00	$ 4,800,000.00
Sludge Press Replacement #3									$1,350,000.00		$ 1,350,000.00
On Site Chlorine Generation										$18,000,000.00	$ 18,000,000.00
Vehicles and Major Equipment	**$ 200,000.00**	**$ 363,000.00**	**$ 215,000.00**	**$ 136,000.00**	**$ 298,000.00**	**$ 461,000.00**	**$ 219,000.00**	**$ 225,000.00**	**$ 265,000.00**	**$ 300,000.00**	**$ 2,682,000.00**
2025 Production Vehicle Replacements & Repairs	$200,000.00										$ 200,000.00
2026 Production Vehicle Replacements & Repairs		$290,000.00									$ 290,000.00
Purchase Skid Steer		$38,000.00									$ 38,000.00
Purchase of a Wood Chipper for Vadnais Grounds Maintenance		$35,000.00									$ 35,000.00
2027 Production Vehicle Replacements & Repairs			$215,000.00								$ 215,000.00
2028 Production Vehicle Replacements & Repairs				$136,000.00							$ 136,000.00
Replace Boat Used for Lake Samples					$ 18,000.00						$ 18,000.00
2029 Production Vehicle Replacements & Repairs					$280,000.00						$ 280,000.00
2030 Production Vehicle Replacements & Repairs						$396,000.00					$ 396,000.00
Purchase New Tractor for Vadnais Team						$65,000.00					$ 65,000.00
2031 Production Vehicle Replacements & Repairs							$219,000.00				$ 219,000.00
2032 Production Vehicle Replacements & Repairs								$225,000.00			$ 225,000.00
2033 Production Vehicle Replacements & Repairs									$265,000.00		$ 265,000.00
2034 Production Vehicle Replacements & Repairs										$300,000.00	$ 300,000.00
Comprehensive Projects	**$ 13,500,000.00**	**$ 300,000.00**	**$ 450,000.00**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 1,300,000.00**	**$ 1,200,000.00**		**$ 16,750,000.00**
Fridley Intake and Pump Station Improvements	$1,500,000.00										$ 1,500,000.00
McCarron's Water Treatment Plant Improvements	$12,000,000.00										$ 12,000,000.00
McCarron's Pumping - Replace 125 V DC Valve Controllers for Pumps		$300,000.00									$ 300,000.00
Low Service Pump Replacement			$450,000.00								$ 450,000.00
High Service Pump Replacement								$1,300,000.00			$ 1,300,000.00
Yard Piping Improvements									$1,200,000.00		$ 1,200,000.00
Misc. Small Capital Expenditures	**$ 110,000.00**	**$ 255,000.00**	**$ 78,000.00**	**$ 70,000.00**	**$ 70,000.00**	**$ 70,000.00**	**$ 70,000.00**	**$ 70,000.00**	**$ 70,000.00**		**$ 863,000.00**
Replace Sewage Ejector Pump or Reroute Sewer Lines	$10,000.00										$ 10,000.00
WTP Equipment Replacements (Annual Allocation)	$100,000.00	$100,000.00	$70,000.00	$70,000.00	$70,000.00	$70,000.00	$70,000.00	$70,000.00	$70,000.00		$ 690,000.00
Budget Reserve - Software Purchases/Upgrades for Production Softwares		$95,000.00									$ 95,000.00
Conversion of Existing Lab Space into Storage/Warehouse Space		$60,000.00									$ 60,000.00
Railroad Spur Improvements			$8,000.00								$ 8,000.00

Water Supply Projects

2025 – 2034 Capital Improvement Plan

Saint Paul Regional Water Services

Project Name	Vadnais Gatehouse Improvements	**Infrastructure Category**	Supply system
Division	Production	**Work type**	Rehabilitation

Project Description

Extensively rehabilitate or reconstruct both the east and the west Vadnais gatehouse as part of a coordinated, multiyear effort.

Background

Two gatehouses located at Vadnais lake play a vital role in supplying water to the SPRWS system. These gatehouses contain screening infrastructure, and, more essentially, gates and other water stopping devices that allow us to drain raw water conduits for maintenance activities.

These gatehouses are very old and are in need of improvements. Water stopping infrastructure no longer complies with OSHA standards for entry into the gatehouse facility since there is only a single gate/valve holding back the water. Ultimately, the gate houses do not present our team with safe and straightforward ways to maintain essential infrastructure.

This project will improve both gatehouses on site via reconstruction or extensive rehabilitation of the gatehouses.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	Q4 2024
Design	Q1-Q2 2025
Construction	Q4 2025 - Q3 2026
Completion	Q3 2026

Operational Implications

Upon completion, we expect to be able to return to maintaining the gate structures as usual, which we're prevented from doing presently.

Project References

NOTES

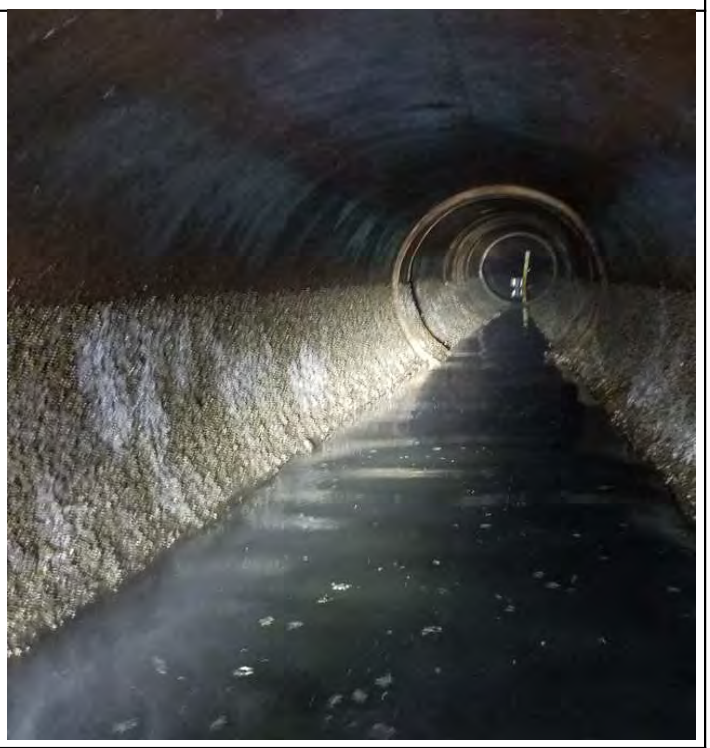
Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	200k	1200k									1400k
Bond											0k
Grant											0k
Total	200k	1200k	0k	0k	0k	0k	0k	0k	0k	0k	**1400k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	200k	1200k									1400k
Total	200k	1200k	0k	0k	0k	0k	0k	0k	0k	0k	**1400k**

Project Name	Raw Water Conduit Rehabilitation (Concrete)	**Infrastructure Category**	Supply system
Division	Production	**Work type**	Rehabilitation

Project Description

SPRWS will hire a contractor to make repairs to 60" concrete conduits. Repairs include patching cracked/spalled concrete and improving seals at pipe joints.
SPRWS crews support this work by dewatering the conduits and maintaining a safe work environment for hired crews.



Background

SPRWS owns and maintains a pair of redundant raw water supply lines that carry water from the Mississippi River (at the Fridley Pump Station) to the lake system and then to the McCarron's Plant. These lines are vital to our operations. Maintaining them is particularly important given that the lines are large-diameter (60" to 90") and are routed through developed areas. If these lines are not adequately maintained and replacement becomes necessary, the cost of the replacement would be tremendous.

In 2017, AECOM's identified appropriate rehabilitation work and laid out a 20 year program for protecting these lines. The rehabilitation program was launched in the winter of 2021/22. Each year, we aim to rehabilitate about 2,000 feet of conduit, putting us on track to complete the 8 miles of conduit work in around 20 years.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	2017-2021
Design	2017-2021
Construction	2021-2042
Completion	2042

Operational Implications

This project involves considerable investment from staff, particularly crews from the Vadnais team who are responsible for dewatering conduits. Dewatering conduits requires maintaining dewatering pumps, sandbagging some areas, etc. and is labor and material intensive. Roughly 1/4 of the total cost of the work is attributable to staff time and SPRWS-purchased materials.

Project References

Documentum -> Reports -> Raw Water Conduit Assessment by AECOM in 2017 (N File N-7278)

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Capital	250k	250k	250k	500k	500k	500k	500k	500k	500k	700k	4,450k
Bond											0k
Grant											0k
Total	250k	250k	250k	500k	500k	500k	500k	500k	500k	700k	**4450k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	250k	250k	250k	500k	500k	500k	500k	500k	500k	500k	4250k
Total	250k	250k	250k	500k	500k	500k	500k	500k	500k	500k	**4250k**

Project Name	Lake Oxygenation System Rehabilitation	**Infrastructure Category**	Supply system
Division	Production	**Work type**	Rehabilitation

Project Description

Rehabilitate oxygenation systems in Pleasant Lake and in Vadnais Lake

Background

SPRWS utilizes oxygenation systems in both Pleasant and Vadnais Lakes. Per discussion with SPRWS staff (primarily Che Fei Chen), we understand that these systems may be degrading and operating inefficiently. This could cause inefficient chemical usage or, eventually, problems with the lakes becoming anaerobic which could lead to taste and odor problems.

Strategic Plan Goal

Schedule

Planning	Q3-Q4 2025
Design	Q1-Q2 2026
Construction	Q3-Q4 2026
Completion	Q4 2026

Operational Implications

This project should help to reduce the volume of oxygen that we need to purchase to effectively oxygenate the lakes.

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital		230k									230k
Bond											0k
Grant											0k
Total	0k	230k	0k	0k	0k	0k	0k	0k	0k	0k	**230k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution		230k									230k
Total	0k	230k	0k	0k	0k	0k	0k	0k	0k	0k	**230k**

Project Name	Copper Sulfate Chemical Feed (Pleasant Lake)	**Infrastructure Category**	Supply system
Division	Production	**Work type**	Expansion

Project Description

SPRWS will add a copper sulfate feed system at Pleasant Lake. This system will protect the conduits and the canal that flow from Pleasant Lake into Sucker Lake, an area of the raw water supply system that is currently unprotected from zebra mussels. This system would allow for continuous low doses of copper sulfate.

Background

In recent years, zebra mussels have been challenging for SPRWS staff to deal with and damanging to SPRWS's infrastructure. When uncontrolled, the mussels grow throughout the raw water system, plugging conduits, screens, and other infrastructure.

Fortunately, SPRWS has invested in controlling zebra mussels throughout the raw water supply system and has been able to control zebra mussels in many areas because of those investments.

SPRWS feeds copper sulfate (EarthTec QZ) at the entrance of the conduits leaving Vadnais Lake already. This system has been very effective. Further, SPRWS piloted copper sulfate feed at Pleasant Lake in 2023 by dosing 55 gallons of the chemical every 2 weeks through the summer months.

Strategic Plan Goal

High performing workforce

Infrastructure strategy and performance

Schedule

Test Period	Summer 2023 to Summer 2027
Design	Q1 and Q2 2028
Construction	Q2 and Q3 2028
Completion	Q3 2028

Operational Implications

Operating this system will require the purchase of Copper Sulfate, which comes at considerable expense. Maintenance expenses will be reduced since cleanouts will become less frequent

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital				280k							280k
Bond											0k
Grant											0k
Total	0k	0k	0k	280k	0k	0k	0k	0k	0k	0k	**280k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution				280k							280k
Total	0k	0k	0k	280k	0k	0k	0k	0k	0k	0k	**280k**

Project Name	Vadnais Ferric Chloride Tank Replacement	**Infrastructure Category**	Supply system
Division	Production	**Work type**	Replacement

Project Description

Replace the storage tank for Ferric Chloride at the Vadnais Campus

Background

The Ferric Chloride tank for the Vadnais Campus appears to be reaching the end of its useful life and has had issues with leaks in the past. Ferric chloride addition in Vadnais Lake effectively serves as a form of pre-treatment for water before it reaches the McCarron's WTP. As such, it's important for is to maintain this chemical feed system, which requires the use of a reliable storage tank.

Strategic Plan Goal

Infrastructure strategy and performance

Quality water

Schedule

Planning	2027
Design	
Construction	2028
Completion	2028

Operational Implications

No meaningful changes expected

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital				75k							75k
Bond											0k
Grant											0k
Total	0k	0k	0k	75k	0k	0k	0k	0k	0k	0k	**75k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution				75k							75k
Total	0k	0k	0k	75k	0k	0k	0k	0k	0k	0k	**75k**

Project Name	Replace Two Chemical Feed Pumps at Vadnais	**Infrastructure Category**	Building and grounds
Division	Production	**Work type**	Rehabilitation

Project Description

Replace two pumps used for dosing ferric chloride at Vadnais

Background

SPRWS operates 14 liquid chemical feed pumps. They are utilized for dosing precise amounts of water treatment chemicals, and they play a vital role in our operations.

The existing pumps are old, are becoming more maintenance intensive, and are experiencing more down time due to failures. In short, reliability is growing to be more of an issue. Further, older pumps have less ability to precisely meter and monitor chemical feed rates, and state reporting is requiring more detailed chemical feed rate reporting.

Replacing chemical feed pumps over the course of the coming years will improve redundancy and reliability and will improve our ability to monitor chemical use.

Strategic Plan Goal

Infrastructure strategy and performance

Quality water

Schedule

Planning	2027
Design	
Construction	2028
Completion	2028

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital				43k							43k
Bond											0k
Grant											0k
Total	0k	0k	0k	43k	0k	0k	0k	0k	0k	0k	**43k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution				43k							43k
Total	0k	0k	0k	43k	0k	0k	0k	0k	0k	0k	**43k**

Project Name	Pleasant Lake Gatehouse Improvements	**Infrastructure Category**	Supply system
Division	Production	**Work type**	Rehabilitation

Project Description

Extensively rehabilitate or reconstruct both of the Pleasant Lake gatehouse as part of a coordinated, multiyear effort.

Background

Two gatehouses located at Pleasant lake play a vital role in supplying water to the SPRWS system. These gatehouses contain screening infrastructure, and, more essentially, gates and other water stopping devices that allow us to drain raw water conduits for maintenance activities.

These gatehouses are very old and are in need of improvements. Water stopping infrastructure no longer complies with OSHA standards for entry into the gatehouse facility since there is only a single gate/valve holding back the water. Ultimately, the gate houses do not present our team with safe and straightforward ways to maintain essential infrastructure.

This project will aim to improve both gatehouses on site via reconstruction or extensive rehabilitation of the gatehouses.

Strategic Plan Goal

Infrastructure strategy and performance

High performing workforce

Schedule

Planning	2027
Design	2028
Construction	2028-2029
Completion	2029

Operational Implications

Reduction in maintenance needs and reliability concerns with the pump station network.

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital				200k	1,200k						1,400k
Bond											0k
Grant											0k
Total	0k	0k	0k	200k	1200k	0k	0k	0k	0k	0k	**1400k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution				200k	1200k						1400k
Total	0k	0k	0k	200k	1200k	0k	0k	0k	0k	0k	**1400k**

Project Name	Vadnais Campus Air Conditioning	**Infrastructure Category**	Building and grounds
Division	Production	**Work type**	Expansion

Project Description

Add an air conditioning unit (or a ductless minisplit unit) to the Vadnais office/cafeteria area.

Background

The Vadnais station is home to a significant portion of the Production division workforce. The workers who are based in this area are typically out in the summer heat throughout the day but spend a meaningful amount of time working, eating, meeting, etc. on the Vadnais campus. Additionally, some of the managers at the Vadnais campus spend a substantial amount of their time working indoors on the campus. Currently the main building doesn't have any air conditioning. As a result, the Vadnais team ends up using window air conditioning units throughout the summer months, but finds that it's fairly ineffective and inefficient.

This project would target portions of the Vadnais facility that are utilized during the summer months so that we can keep those spaces comfortable for staff.

Strategic Plan Goal

High performing workforce

Schedule

Planning	2028
Design	
Construction	2029
Completion	2029

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital					25k						25k
Bond											0k
Grant											0k
Total	0k	0k	0k	0k	25k	0k	0k	0k	0k	0k	**25k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution					25k						25k
Total	0k	0k	0k	0k	25k	0k	0k	0k	0k	0k	**25k**

Project Name	Obtain Water Supply to Vadnais Campus	**Infrastructure Category**	Watermain
Division	Production	**Work type**	Expansion

Project Description

Install a service line to supply the Vadnais campus with water. Coordinate with Vadnais Heights to make this happen.

Background

The Vadnais campus does not have a city water supply. As a result, they are forced to utilize untreated well water for most purposes and to purchase bottled water for consumption. Several discussions with Vadnais Heights have been unfruitful in the past.

Money budgeted as a placeholder under the assumption that we may need to cover some of the costs of supplying water to campus.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	2028
Design	
Construction	2029
Completion	2029

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital					200k						200k
Bond											0k
Grant											0k
Total	0k	0k	0k	0k	200k	0k	0k	0k	0k	0k	**200k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution					200k						200k
Total	0k	0k	0k	0k	200k	0k	0k	0k	0k	0k	**200k**

Project Name	Replace Two Chemical Feed Pumps at Fridley	**Infrastructure Category**	Supply system
Division	Production	**Work type**	Replacement

Project Description

Replace two pumps used for dosing ferric chloride at Fridley

Background

SPRWS operates 14 liquid chemical feed pumps. They are utilized for dosing precise amounts of water treatment chemicals, and they play a vital role in our operations.

The existing pumps are old, are becoming more maintenance intensive, and are experiencing more down time due to failures. In short, reliability is growing to be more of an issue. Further, older pumps have less ability to precisely meter and monitor chemical feed rates, and state reporting is requiring more detailed chemical feed rate reporting.

Replacing chemical feed pumps over the course of the coming years will improve redundancy and reliability and will improve our ability to monitor chemical use.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	2028
Design	
Construction	2029
Completion	

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital					45k						45k
Bond											0k
Grant											0k
Total	0k	0k	0k	0k	45k	0k	0k	0k	0k	0k	**45k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution					45k						45k
Total	0k	0k	0k	0k	45k	0k	0k	0k	0k	0k	**45k**

Project Name	Vadnais Copper Sulfate Tank Replacement	**Infrastructure Category**	Supply system
Division	Production	**Work type**	Replacement

Project Description

Replace the copper sulfate tank at the Vadnais Campus

Background

SPRWS feeds copper sulfate at the Vadnais campus for zebra mussel control. This chemical cuts down on the need for regular maintenance on raw water infrastructure and maintains full flow capacities in the raw water system. The storage tank for this chemical is located outdoors and is subject to sunshine and UV exposure. As such, we anticipate that we may need to replace this tank in this timeframe.

Strategic Plan Goal

Quality water

Infrastructure strategy and performance

Schedule

Planning	2030
Design	
Construction	2031
Completion	2031

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital							65k				65k
Bond											0k
Grant											0k
Total	0k	0k	0k	0k	0k	0k	65k	0k	0k	0k	**65k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution							65k				65k
Total	0k	0k	0k	0k	0k	0k	65k	0k	0k	0k	**65k**

Project Name	Capital Investments in Raw Water Supply Wells	**Infrastructure Category**	Supply system
Division	Production	**Work type**	Rehabilitation

Project Description

Rehabilitate raw water supply wells to ensure that they are in good condition for continued use as an emergency backup system.

Background

Our raw water supply roles play a vital role in providing redundancy to our supply system. While they are used infrequently, they remain a highly valuable asset and need to be maintained wisely.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	2031
Design	
Construction	2032
Completion	2032

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital								700k			700k
Bond											0k
Grant											0k
Total	0k	0k	0k	0k	0k	0k	0k	700k	0k	0k	**700k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution								700k			700k
Total	0k	0k	0k	0k	0k	0k	0k	700k	0k	0k	**700k**

Project Name	Fridley Intake and Pump Station Improvements	**Infrastructure Category**	Supply system
Division	Production	**Work type**	Rehabilitation

Project Description

The Fridley Intake and Pump Station is a critical component of the raw water supply system for SPRWS. Various aspects of the station are in need of improvement. Improvement needs include: replacement of electrical gear, flood protection, correcting erosion around the foundation, fixing leaks in walls and roof, and more.

Background

Needs related to the Fridley Pump Station have been identified in reports by HR Green (2023) and GEI Consultants (2016). Needs have also been identified by SPRWS staff members. Production and Engineering Division management and field staff began meeting on site to quantify all needs in Q4 of 2023 and will be working to prioritize needs and develop a robust project scope in Q4 of 2024.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	Q4 2023 to Q2 2024
Design	Q4 2024 to Q3 2025
Construction	Q3 2025 to Q3 2026
Completion	Q3 2026

NOTES

$1.9 Million has been budgeted for 2024. It's unlikely that 2024 expenditures will be nearly that high as 2024 is expected to be primarily a year devoted to internal project scoping, procurement, and design work. Expenses are expected to be considerably higher in 2025 and 2026.

TOTAL PROJECT BUDGET (INCLUDING 2024 FUNDS) IS $3.4 MILLION

Project References

V:\Engineering\Engineering Projects\N7388 - Fridley Intake and Pump Station Improvements\Reports\Pre-Existing Reports
"2016 GEI Structural Assessment of Fridley Pump Station.pdf"
"2023 Pump Station Master Plan from HR Green.pdf"
V:\Engineering\Engineering Projects\N7388 - Fridley Intake and Pump Station Improvements\Project Management
"Fridley Pump Station Issues Log.docx"
Condition assessment report
Feasibility report
Cost estimates

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	1500k										1500k
Bond											0k
Grant											0k
Total	1500k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**1500k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	1500k										1500k
Total	1500k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**1500k**

Water Treatment Projects

2025 – 2034 Capital Improvement Plan

Saint Paul Regional Water Services

Project Name	Filter Gallery Valving and Piping Improvements	**Infrastructure Category**	Plant & treatment
Division	Production	**Work type**	Rehabilitation

Project Description

Assess pipes and valves in the filter gallery. Prioritize replacements based on risk assessments while also weighing the operational impacts associated with the necessary filter shutdowns.
Perform the recommended replacements over the following years.

Background

SPRWS operates 24 filters, which are essential to the drinking water treatment process. Water flowing into and out of these filters passes through large-diameter pipes and valves. There's also substantial piping and valving that supports filter backwash and air scouring in this area.

The piping and valving in this area shows significant signs of corrosion both on the pipe interior and the pipe exterior. As an example of interior corrosion, when a filter is started after a long period offline, the water entering the filter is often turbid with iron particles. This internal corrosion may be causing turbidity issues and is indicative of the fact that the pipes may be approaching the end of their useful lives. Exterior corrosion is visible in some places and has been observed when punctures and leaks in the pipe appear.

Strategic Plan Goal

Infrastructure strategy and performance

Quality water

Schedule

Planning	Q3 and Q4 2024
Design	Q1 to Q3 of 2025
Construction	2025-2028
Completion	2028

Operational Implications

Project References

SPRWS will begin engineering work on this project in the fall/winter of 2024 using the Utility Services Master Contract

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	400k			465k							865k
Bond											0k
Grant											0k
Total	400k	0k	0k	465k	0k	0k	0k	0k	0k	0k	**865k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	400k			465k							865k
Total	400k	0k	0k	465k	0k	0k	0k	0k	0k	0k	**865k**

Project Name	Air Scour Blower Purchase and Installation	**Infrastructure Category**	Plant & treatment
Division	Production	**Work type**	Expansion

Project Description

Purchase, install, and program a second Air Blower unit. This will provide redundancy in the backwashing process and will decrease our reliance on an old piece of essential equipment.

Background

SPRWS operates 24 filters, which play a vital role in drinking water production. The filters require frequent backwashing to make sure that they continue to operate effectively and do not become plugged by sediments/deposits.

In addition to water, pressurized air is bubbled up through the media to reach fluidization. Without pressurized air, backwashing of the filter media would be insufficient to keep the media operable.

A single blower unit provides pressurized air for the backwashing process. Blowers of this type cannot be readily purchased and delivered within a short timeframe. Redundancy in equipment is appropriate here.

Strategic Plan Goal

Infrastructure strategy and performance

Quality water

Schedule

Planning	Q4 2024
Design	Q1 2025
Construction	Q2 2025
Completion	Q3 2025

Operational Implications

Possible energy savings from a more efficient new blower unit

Project References

SPRWS will begin engineering work on this project in the fall/winter of 2024 using the Utility Services Master Contract

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	405k										405k
Bond											0k
Grant											0k
Total	405k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**405k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	405k										405k
Total	405k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**405k**

Project Name	Hach 5500sc Silica Analyzer Purchase (FWR)	**Infrastructure Category**	Plant & treatment
Division	Production	**Work type**	Expansion

Project Description

Purchase a shelf-spare Hach 5500 unit to ensure that chlorine and free ammonia readings in the finished water reservoir can continue, unimpeded in the event of a breakdown in the primary equipment.

Background

We currently have two Hach 5500 meters installed to monitor chlorine and free ammonia in the Finished Water Reservoir. During normal operations, each unit is dedicated to one side of the FWR. When one unit is non-operational, the other unit is able to take readings of both sides but will only provide SCADA trends for a single side. (Dual trending is an expected improvement to be delivered in 2024.)
These measurements are necessary for regulatory compliance, so it is vital that at least one unit is functioning correctly at all times. The units have been unreliable in recent history (as of Jan. 2024).

Strategic Plan Goal

Quality water

Schedule

Planning	2024
Design	
Construction	2025
Completion	2025

Operational Implications

Project References

NOTES

Often, when the units breakdown, the issue is with a circuit board, which is not something that the SPRWS team is able to repair in-house and which takes time to get fixed. This is evidenced by the fact that, currently, one of the two units has been broken for over a month. With the unreliability of the units and the repair timetable, it is a matter of time before both units are simultaneously non-functional and meeting regulatory monitoring requirements is a challenge.

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	29k										29k
Bond											0k
Grant											0k
Total	29k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**29k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	29k										29k
Total	29k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**29k**

Project Name	Shelf Spare Pump for Filter Press Supply	**Infrastructure Category**	Plant & treatment
Division	Production	**Work type**	Expansion

Project Description

Purchase a spare pump to improve our ability to handle a failure in the existing four filter press pumps.

Background

Each of the four filter presses in the dewatering building is supplied with sludge by a single pump. Getting spare parts for pumps is increasingly challenging. As sludge pumps, we do not expect that their lifespan will be particularly long. A failure in one of these pumps will result in a shutdown of the filter press that it serves until the pump is replaced.
During summer months, shutting down a single filter press requires operators to work overtime to handle sludge volumes. Having two filter presses out of service will result in us not being able to keep up with sludge production rates in summer.
With the filter presses already being old and vulnerable to failure themselves, operating without a shelf spare of these pumps is an unnecessary compounding of risk.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	Q4 2024
Design	Q1 and Q2 2025
Construction	Q3 2025
Completion	Q3 2025

Operational Implications

Reduced potential for extended overtime for SPRWS staff when a pump fails in the future

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	50k										50k
Bond											0k
Grant											0k
Total	50k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**50k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	50k										50k
Total	50k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**50k**

Project Name	Reclaim Basin Float Replacement	**Infrastructure Category**	Plant & treatment
Division	Production	**Work type**	Replacement

Project Description

Replace old, mechanical float switches in reclaim basins with SCADA-connected sonar measuring tools.

Most of the cost of this project is assumed to be wiring of equipment and SCADA programming. The measurement equipment itself is inexpensive.

Background

The reclaim basins contain old mechanical float switches that tell pumps when to start or shutoff. These floats have been an operational headache for us. They occasionally get caught up/tangled/etc. causing pumps to continue running when the basin is empty, or, on the flip side, creating a flooding risk for the basement of dewatering if pumps fail to kick on when they should.

Replacement with a sonar system, similar to what is utilized for chemical storage tanks, is desirable.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	Q3 2025
Design	Q4 2025
Construction	Q1 2026 (Install during reclaim cleanout)
Completion	Q1 2026

Operational Implications

Reduction in maintenance needs and reliability concerns with the pump station network.

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	40k										40k
Bond											0k
Grant											0k
Total	40k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**40k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	40k										40k
Total	40k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**40k**

Project Name	Pump Floor Vacuum Pump Replacement/Addition	**Infrastructure Category**	Pumps
Division	Production	**Work type**	Expansion

Project Description

Replace one of the existing vacuum pumps (described below) with a new, modern model OR install a third vacuum pump to limit risks associated with depending on such old infrastructure

Background

High and low service pumps at the McCarron's Plant depend on smaller vacuum pumps. These pumps are used to prime the high and low service pumps. Without the successful operation of these vacuum pumps, it would not be possible to start high and low service pumps.

The existing vacuum pumps are believed to be from the 1950s. There are two of them, and only one is needed, so we have an acceptable level of redundancy for this critical equipment. Nonetheless, with both pumps being so old and serving such a vital purpose, we are concerned about the possibility of a simultaneous failure. We believe that either 1. One of the pumps should be replaced with a modern model or 2. A third, new pump should be added to the system to improve redundancy/reliability.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	2025
Design	2025
Construction	2025
Completion	2025

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	60k										60k
Bond											0k
Grant											0k
Total	60k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**60k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	60k										60k
Total	60k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**60k**

Project Name	Replace Two Chemical Feed Pumps for Fluoride (McCarron's)	**Infrastructure Category**	Plant & treatment
Division	Production	**Work type**	Replacement

Project Description

Replace two pumps used for dosing fluoride at McCarron's WTP

Background

SPRWS operates 14 liquid chemical feed pumps. They are utilized for dosing precise amounts of water treatment chemicals, and they play a vital role in our operations.

The existing pumps are old, are becoming more maintenance intensive, and are experiencing more down time due to failures. In short, reliability is growing to be more of an issue. Further, older pumps have less ability to precisely meter and monitor chemical feed rates, and state reporting is requiring more detailed chemical feed rate reporting.

Replacing chemical feed pumps over the course of the coming years will improve redundancy and reliability and will improve our ability to monitor chemical use.

Strategic Plan Goal

Quality water

Schedule

Planning	2024
Design	2024
Construction	2025
Completion	2025

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	35k										35k
Bond											0k
Grant											0k
Total	35k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**35k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	35k										35k
Total	35k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**35k**

Project Name	Transfer Pump for Phosphoric Acid	**Infrastructure Category**	Plant & treatment
Division	Production	**Work type**	Expansion

Project Description

Replace the transfer pump for the phosphoric acid system & utilize the salvaged pump as a redundant pump for the new plant chemical feed systems.

Background

Since installation of the phosphoric acid system, our team has noticed that the transfer pump for the system may be oversized. When it starts up, it causes the piping to shake violently, and it may increase the risk of leaks in the system.

This project will allow us to pull the existing transfer pump (which will be used as a shelf-spare for chemical feeds in the new treatment plant facility) and to purchase a smaller, appropriately sized transfer pump. This will enable the phosphoric acid system to run more smoothly while also improving redundancy in new chemical feed systems.

Strategic Plan Goal

Quality water

Schedule

Planning	2024
Design	2025
Construction	2025
Completion	2025

Operational Implications

Project References

NOTES

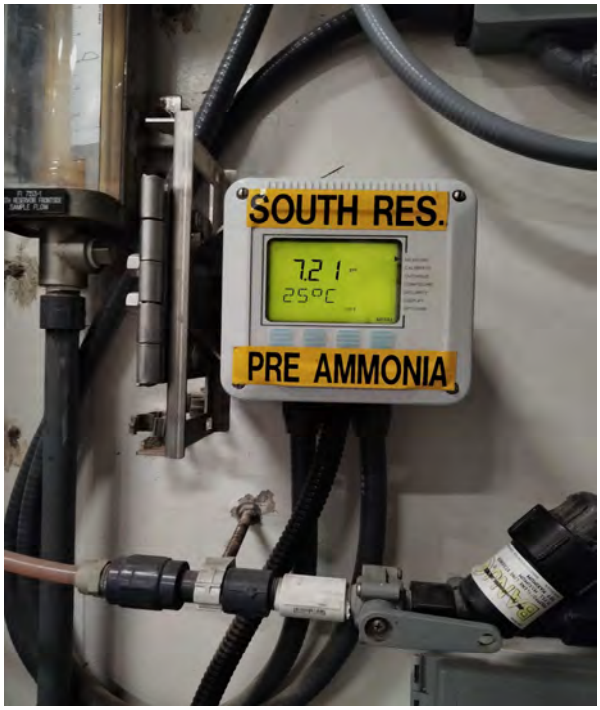
Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	15k										15k
Bond											0k
Grant											0k
Total	15k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**15k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	15k										15k
Total	15k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**15k**

Project Name	WTP Water Quality Instruments Replacement/Upgrades
Division	Production
Infrastructure Category	Plant & treatment
Work type	Replacement

Project Description

Purchase and install new water quality probes/meters/instruments as needed to keep all WTP water quality monitoring infrastructure in excellent shape.



Background

Throughout the treatment process, SPRWS utilizes dozens and dozens of water quality probes to measure water quality/chemistry. Examples include turbidimeters and pH probes.

Ensuring that these probes are reliable and accurate is important for helping to keep us in compliance with regulations and for optimizing treatment processes.

This annual allowance is reserved for the purpose of purchasing new water quality probes/meters/instruments to replace older, outdated models.

Strategic Plan Goal

Quality water

Schedule

Planning	2024
Design	
Construction	2025-2033
Completion	2033

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	35k	36k	37k	38k	39k	40k	41k	42k	43k		351k
Bond											0k
Grant											0k
Total	35k	36k	37k	38k	39k	40k	41k	42k	43k	0k	**351k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	35k	36k	37k	38k	39k	40k	41k	42k	43k		351k
Total	35k	36k	37k	38k	39k	40k	41k	42k	43k	0k	**351k**

Project Name	Piping Evaluation and Improvements (Sub-floor, Pump Room)	**Infrastructure Category**	Plant & treatment
Division	Production	**Work type**	Rehabilitation

Project Description

Conduct an engineering study of the pipes and valves beneath the floor of the pump room. Determine likelihood and consequence of failure and develop plans for any necessary improvements, replacements, rehabilitations, etc.

Background

There is a substantial amount of sub-floor piping beneath the pump room. The pipes in these areas have a high consequence of failure since they are influent/effluent lines for pumps that serve all 450,000 SPRWS customers. A visual inspection of the pipes shows that some corrosion is present. The condition of the pipes has not been studied in detail in recent history.

Due to the strategic importance of the pipes, the age of the pipes, and the unknown condition, an engineering study of the pipes is merited.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	Q1 2025
Design	2026
Construction	2026-2031
Completion	2031

Operational Implications

Project References

NOTES

Known issues include:
Pump 9 discharge valve that must be manually operated and functions poorly. (Ideally we would copy the discharge valve setup for Pump 8 here)
Discharge valve for pump #6 is beneath the floor slab in a confined space. It's difficult to access and may need to be raised.

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	85k	290k					300k				675k
Bond											0k
Grant											0k
Total	85k	290k	0k	0k	0k	0k	300k	0k	0k	0k	**675k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	85k	290k					300k				675k
Total	85k	290k	0k	0k	0k	0k	300k	0k	0k	0k	**675k**

Project Name	Sludge Press Replacement	**Infrastructure Category**	Plant & treatment
Division	Production	**Work type**	Replacement

Project Description

This project would aim to replace one of the existing sludge presses in the dewatering building for the purpose of improving redundancy and reliability in the system. Specifically, we expect that filter press #3 would be the best candidate for replacement.

Background

SPRWS owns and operates four sludge presses for handling lime solids removed during treatment. In summer, we use all four presses. We can operate with three presses functional, but we'd need operators to regularly work overtime due to the longer amount of time that it would take to press sludge. We cannot manage to operate in the summer time with only two presses active.

Three of the four filter presses that we own are believed to have exceed their useful life. The fourth is the newest but also the slowest and the least utilized. This project is aimed at attempting to address reliability concerns. With 3/4 of our presses vulnerable to failure and a system that already has fairly minimal redundancy, the current operating situation is uncomfortable.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	Q3 & Q4 2025
Design	Q1 to Q3 2026
Construction	Q3 2026 to Q2 2027
Completion	

Operational Implications

Project References

NOTES

This project should also consider the possible purchase/installation of a redundant cloth wash pump. This pump supplies the wash water that is used to wash off the filter fabric. Currently, only one pump is in place to serve this purpose. In Feb. of 2024 this pump broke, causing us to rush order a replacement and to pay a premium. Redundancy in this infrastructure may be desirable.

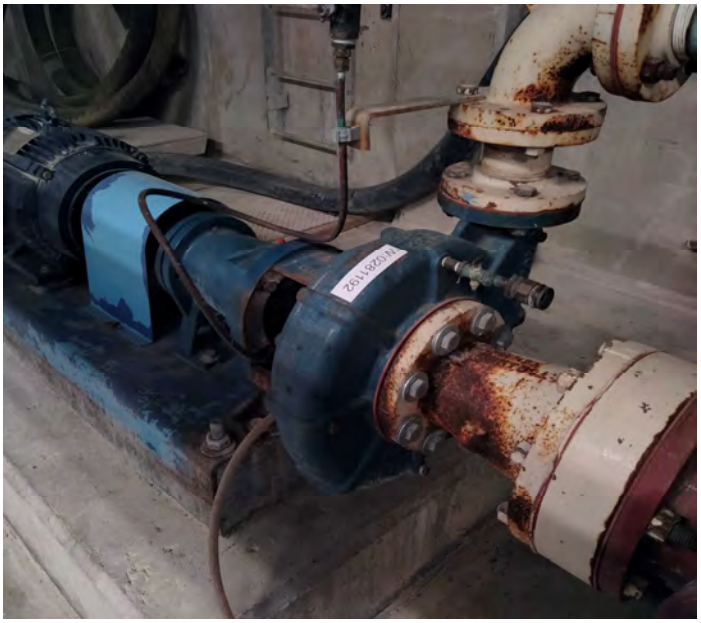
Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital		1,350k									1,350k
Bond											0k
Grant											0k
Total	0k	1350k	0k	0k	0k	0k	0k	0k	0k	0k	**1350k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution		1,350k									1350k
Total	0k	1350k	0k	0k	0k	0k	0k	0k	0k	0k	**1350k**

Project Name	Dewatering - Core Blow Pump Replacement	**Infrastructure Category**	Plant & treatment
Division	Production	**Work type**	Replacement

Project Description

Replace the remaining 1970s vintage Core Blow pump in the Dewatering building



Background

Per discussions with the Dewatering O&M Team, we have 2 Core Blow pumps that are essential to the operation of our filter presses. Until recently, both were 1970s vintage. In 2024, one of the two pumps broke and has been removed for replacement. We anticipate that replacement will occur by summer of 2024.

The pumps are redundant with one another. The aim of this project is to replace the remaining 1970s vintage Core Blow pump so that we can have two operationally sound units in place.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	2025
Design	2026
Construction	2026
Completion	2026

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital		40k									40k
Bond											0k
Grant											0k
Total	0k	40k	0k	0k	0k	0k	0k	0k	0k	0k	**40k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution		40k									40k
Total	0k	40k	0k	0k	0k	0k	0k	0k	0k	0k	**40k**

Project Name	Replace Four Chemical Feed Pumps Used for Dosing Sodium Hydroxide (McCarron's)	**Infrastructure Category**	Plant & treatment
Division	Production	**Work type**	Replacement

Project Description

Replace four pumps used for dosing sodium hydroxide at McCarron's WTP

Background

SPRWS operates 14 liquid chemical feed pumps. They are utilized for dosing precise amounts of water treatment chemicals, and they play a vital role in our operations.

The existing pumps are old, are becoming more maintenance intensive, and are experiencing more down time due to failures. In short, reliability is growing to be more of an issue. Further, older pumps have less ability to precisely meter and monitor chemical feed rates, and state reporting is requiring more detailed chemical feed rate reporting.

Replacing chemical feed pumps over the course of the coming years will improve redundancy and reliability and will improve our ability to monitor chemical use.

Strategic Plan Goal

Quality water

Schedule

Planning	2025
Design	2026
Construction	2026
Completion	2026

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital		78k									78k
Bond											0k
Grant											0k
Total	0k	78k	0k	0k	0k	0k	0k	0k	0k	0k	**78k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution		78k									78k
Total	0k	78k	0k	0k	0k	0k	0k	0k	0k	0k	**78k**

Project Name	Chlorine and Ammonia Evaporator Replacements	**Infrastructure Category**	Plant & treatment
Division	Production	**Work type**	Replacement

Project Description

Replace 2 chlorine evaporators and 1 ammonia evaporator

Background

SPRWS utilizes five evaporators (3 for chlorine and 2 for ammonia) to keep the chemical feed systems operational. These evaporators are getting old and showing signs of wear. At any given time, 1 or 2 of the chlorine evaporators are needed and one of the ammonia evaporators is needed.

This project will replace 2 chlorine evaporators and 1 ammonia evaporator. The remaining older evaporators will be left as redundant units for each system.

Strategic Plan Goal

Quality water

Schedule

Planning	2025
Design	2026
Construction	2026
Completion	2026

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital		90k									90k
Bond											0k
Grant											0k
Total	0k	90k	0k	0k	0k	0k	0k	0k	0k	0k	**90k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution		90k									90k
Total	0k	90k	0k	0k	0k	0k	0k	0k	0k	0k	**90k**

Project Name	Wastewater Handling Improvements	**Infrastructure Category**	Plant & treatment
Division	Production	**Work type**	Rehabilitation

Project Description

Project definition is vague at this point. Further investigation is needed to determine the most appropriate course of action. Nonetheless, the problem clearly exists already and constrains our operations. Expenditures will be needed.

Background

Wastewater handling is an important but underappreciated aspect of the water treatment process. It's important to have a functional wastewater handling system in place when filters are backwashed, basins are drained and cleaned out, sludge presses are running, etc.

The existing wastewater handling system struggles to keep up with the volume of wastewater that we produce. When this occurs, operators sometimes have to delay filter backwashes (or take filters offline) to avoid overwhelming and flooding the wastewater system.

As of Jan. 2024, it is unclear what aspects of the system are limiting its ability to handle and process wastewater.

Improvements may involve: upsizing piping to sludge field, upsizing pumping, upsizing reclaim basins, installing plate settlers, or recycling wastewater to the head of the treatment plant.

Strategic Plan Goal

Infrastructure strategy and performance

Quality water

Schedule

Planning	Q1 2025
Design	Q2 2025 to Q1 2026
Construction	Q4 2027 and Q1 2028
Completion	2028

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Capital		60k	250k	1,450k							1,760k
Bond											0k
Grant											0k
Total	0k	60k	250k	1450k	0k	0k	0k	0k	0k	0k	**1760k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution		60k	250k	1,450k							1760k
Total	0k	60k	250k	1450k	0k	0k	0k	0k	0k	0k	**1760k**

Project Name	Replace Four Chemical Feed Pumps Used for Dosing Ferric Chloride (McCarron's)	**Infrastructure Category**	Plant & treatment
Division	Production	**Work type**	Expansion

Project Description

Replace four pumps used for dosing ferric chloride at McCarron's WTP (provided that ferric chloride system remains in operation)

Background

SPRWS operates 14 liquid chemical feed pumps. They are utilized for dosing precise amounts of water treatment chemicals, and they play a vital role in our operations.

The existing pumps are old, are becoming more maintenance intensive, and are experiencing more down time due to failures. In short, reliability is growing to be more of an issue. Further, older pumps have less ability to precisely meter and monitor chemical feed rates, and state reporting is requiring more detailed chemical feed rate reporting.

Replacing chemical feed pumps over the course of the coming years will improve redundancy and reliability and will improve our ability to monitor chemical use.

Strategic Plan Goal

Quality water

Schedule

Planning	2026
Design	
Construction	2027
Completion	2027

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital			82k								82k
Bond											0k
Grant											0k
Total	0k	0k	82k	0k	0k	0k	0k	0k	0k	0k	**82k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution			82k								82k
Total	0k	0k	82k	0k	0k	0k	0k	0k	0k	0k	**82k**

Project Name	Fluoride Tank Replacement	**Infrastructure Category**	Plant & treatment
Division	Production	**Work type**	Replacement

Project Description
Replace Fluoride Tanks

Background
Fluoride tanks are aging and are approaching the end of their useful life.

Strategic Plan Goal

Quality water

Schedule

Planning	2026 and 2027
Design	2027
Construction	2028
Completion	2028

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Capital				170k							170k
Bond											0k
Grant											0k
Total	0k	0k	0k	170k	0k	0k	0k	0k	0k	0k	**170k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution				170k							170k
Total	0k	0k	0k	170k	0k	0k	0k	0k	0k	0k	**170k**

Project Name	Sludge Press Replacement #2	**Infrastructure Category**	Building and grounds
Division	Production	**Work type**	Rehabilitation

Project Description

This project would aim to replace one of the existing sludge presses in the dewatering building for the purpose of improving redundancy and reliability in the system.

Background

SPRWS owns and operates four sludge presses for handling lime solids removed during treatment. In summer, we use all four presses. We can operate with three presses functional, but we'd need operators to regularly work overtime due to the longer amount of time that it would take to press sludge. We cannot manage to operate in the summer time with only two presses active.

Three of the four filter presses that we own are believed to have exceed their useful life. The fourth is the newest but also the slowest and the least utilized. This project is aimed at attempting to address reliability concerns. With 3/4 of our presses vulnerable to failure and a system that already has fairly minimal redundancy, the current operating situation is uncomfortable.

Strategic Plan Goal

Schedule

Planning	Q3 & Q4 2026
Design	Q1 to Q3 2027
Construction	Q3 2028 to Q2 2029
Completion	2029

Operational Implications

Reduction in maintenance needs and reliability concerns with the pump station network.

Project References

NOTES

Sludge Press #3 is slated for replacement in 2026 according to this plan. This project would replace sludge press #1 or #2. Following this project, we would only have one old sludge press remaining.

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital				1,350k							1,350k
Bond											0k
Grant											0k
Total	0k	0k	0k	1350k	0k	0k	0k	0k	0k	0k	**1350k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution				1350k							1350k
Total	0k	0k	0k	1350k	0k	0k	0k	0k	0k	0k	**1350k**

Project Name	Air Compressor Replacement - Chlorine and Ammonia Building	**Infrastructure Category**	Building and grounds
Division	Production	**Work type**	Rehabilitation

Project Description

Replace one air compressor in the chlorine/ammonia building with a new compressor, or (preferably) install a second air compressor that is redundant with the first.

Background

An air compressor in the chlorine and ammonia building serves as the primary means of shutting off the chlorine system in the event of a leak during a power outage. This air compressor is getting old, per discussions with our staff, and we should consider replacing it.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	2027
Design	
Construction	2028
Completion	2028

Operational Implications

Compressors with VFDs should save a considerable amount of energy and are likely to come with a rebate. When we have an electrical engineering consultant on board, we should collaborate to consider this project and determine if we might realize operational savings quickly. If so, this may move the project up in the schedule.

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital				16k							16k
Bond											0k
Grant											0k
Total	0k	0k	0k	16k	0k	0k	0k	0k	0k	0k	**16k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution				16k							16k
Total	0k	0k	0k	16k	0k	0k	0k	0k	0k	0k	**16k**

Project Name	Air Compressor Replacement - Dewatering Building	**Infrastructure Category**	Building and grounds
Division	Production	**Work type**	Rehabilitation

Project Description

Replace 2 air compressors in the dewatering building with new compressors.

Add additional compressed air storage. Currently we only have a 200 gallon tank.

Background

Dewatering press operations depend upon two air compressors installed in the dewatering building. By 2028, these compressors will be more than 25 years old. There are two compressors, and they are redundant with one another, which provides some operational flexibility. That said, while we're addressing improvements to dewatering operations, these compressors should be considered. Currently assuming that both compressors would be replaced.

Note: two compressors in the WTP building may be rendered irrelevant by the McCarron's WTP project. If this is the case, then we may be able to keep these two as spares and not need to worry about proactively replacing these compressors.

Compressed air storage is insufficient with only 200 gallons of storage present. Per discussions with our team, I understand that we could probably benefit from 4x that amount. This project

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	2027
Design	
Construction	2028
Completion	2028

Operational Implications

Compressors with VFDs should save a considerable amount of energy and are likely to come with a rebate. When we have an electrical engineering consultant on board, we should collaborate to consider this project and determine if we might realize operational savings quickly. If so, this may move the project up in the schedule.

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital				80k							80k
Bond											0k
Grant											0k
Total	0k	0k	0k	80k	0k	0k	0k	0k	0k	0k	**80k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution				80k							80k
Total	0k	0k	0k	80k	0k	0k	0k	0k	0k	0k	**80k**

Project Name	Ferric Chloride Tank Replacement (if needed)	**Infrastructure Category**	Plant & treatment
Division	Production	**Work type**	Replacement

Project Description

Replace Ferric Chloride Tanks

Background

Ferric Chloride has typically been used as a secondary coagulant at the McCarron's Water Treatment Plant. The tanks for this chemical are approaching the end of their useful life and are in need of replacement.

That said, when the new softening processes are fully constructed and operational (expected in 2025), SPRWS may opt to switch coagulant regimes. If coagulant regimes are switched, then no capital expenditures in this area should be necessary.

For capital planning purposes, it is assumed that Ferric Chloride will continue to play a role in the treatment process and that these tanks will require replacement.

Strategic Plan Goal

Schedule

Planning	2026 and 2027
Design	2028
Construction	2029
Completion	2029

Operational Implications

Project References

NOTES

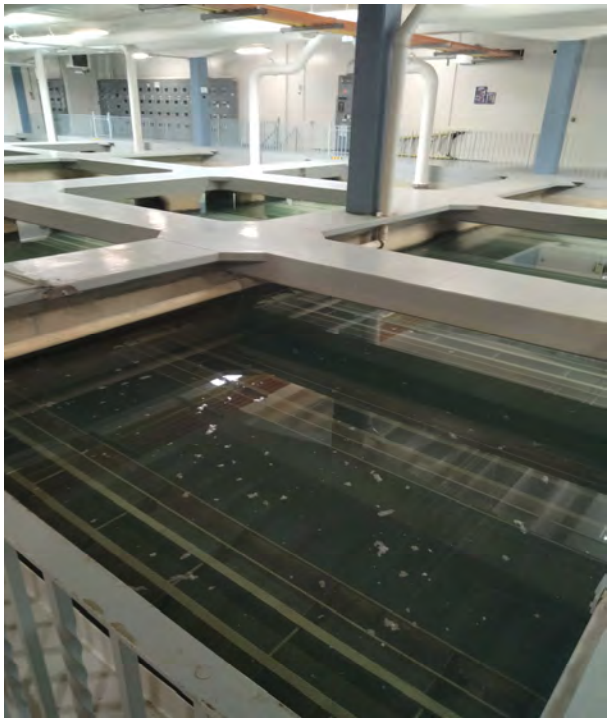
Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital					176k						176k
Bond											0k
Grant											0k
Total	0k	0k	0k	0k	176k	0k	0k	0k	0k	0k	**176k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution					176k						176k
Total	0k	0k	0k	0k	176k	0k	0k	0k	0k	0k	**176k**

Project Name	GAC Filter Media Replacement	**Infrastructure Category**	Plant & treatment
Division	Production	**Work type**	Replacement

Project Description

Multi-Year effort to replace media in filters. Preliminary expectations would be to replace media in approximately 4 filters per year for a six-year period, resulting in the eventual replacement of media for all 24 filters.



Background

Granular Activated Carbon plays an essential role in the treatment process for SPRWS. It removes a host of contaminants from water and ensures that effluent turbidities from the plant remain low. GAC filter media was originally installed in the mid-2000s, and, at the time, SPRWS expected that regular replacement of the media would be necessary.

Media has continued to perform well, though pilot studies have shown that the media leeches some chemicals into water as the water flows through the media. The amount of chemical leeching is insignificant but it does indicate that the replacement of media may be merited in the medium-term future.

Strategic Plan Goal

Quality water

Schedule

Planning	2029
Design	2030
Construction	2031-2036
Completion	2036

Operational Implications

Reduction in maintenance needs and reliability concerns with the pump station network.

Project References

NOTES

The underdrain system should be evaluated at this time as well to ensure that it is in good condition. Media replacement would allow for an optimal timeframe for making repairs to the underdrain system as needed.

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital							600k	1,200k	600k	2,400k	4,800k
Bond											0k
Grant											0k
Total	0k	0k	0k	0k	0k	0k	600k	1200k	600k	2400k	**4800k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution							600k	1,200k	600k	2,400k	4800k
Total	0k	0k	0k	0k	0k	0k	600k	1200k	600k	2400k	**4800k**

Project Name	Sludge Press Replacement #3	**Infrastructure Category**	Plant & treatment
Division	Production	**Work type**	Replacement

Project Description

This project would aim to replace the last of the older existing sludge presses in the dewatering building for the purpose of improving redundancy and reliability in the system.

Background

SPRWS owns and operates four sludge presses for handling lime solids removed during treatment. In summer, we use all four presses. We can operate with three presses functional, but we'd need operators to regularly work overtime due to the longer amount of time that it would take to press sludge. We cannot manage to operate in the summer time with only two presses active.

Three of the four filter presses that we own are believed to have exceed their useful life. The fourth is the newest but also the slowest and the least utilized. This project is aimed at attempting to address reliability concerns. With 3/4 of our presses vulnerable to failure and a system that already has fairly minimal redundancy, the current operating situation is uncomfortable.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	Q3 & Q4 2032
Design	Q1 to Q3 2033
Construction	Q3 2033 to Q2 2034
Completion	

Operational Implications

Reduction in maintenance needs and reliability concerns with the pump station network.

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital									1,350k		1,350k
Bond											0k
Grant											0k
Total	0k	0k	0k	0k	0k	0k	0k	0k	1350k	0k	**1350k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution									1350k		1350k
Total	0k	0k	0k	0k	0k	0k	0k	0k	1350k	0k	**1350k**

Project Name	On Site Chlorine Generation	**Infrastructure Category**	Plant & treatment
Division	Production	**Work type**	Expansion

Project Description

Add on-site chlorine generation capability and move away from rail car deliveries of chlorine

Background

SPRWS currently supplies chlorine for treatment purposes via rail cars. This means that there is a very large volume of chlorine gas stored on site at any time. While SPRWS staff is very familiar with the maintenance processes required to ensure that the chlorine can be safely handled, it represents a meaningful safety risk. Additionally, gaseous chlorine supply chains are vulnerable to railroad employee strikes and other disruptions. Moving to on-site generation should ensure that we have a more reliable source of chlorine for treatment purposes.

Strategic Plan Goal

Quality water

Schedule

Planning	
Design	
Construction	
Completion	

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Capital											0k
Bond										18,000k	18,000k
Grant											0k
Total	0k	0k	0k	0k	0k	0k	0k	0k	0k	18000k	**18000k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution										18,000k	18000k
Total	0k	0k	0k	0k	0k	0k	0k	0k	0k	18000k	**18000k**

Project Name	Replacement of Metrohm Lab Equipment	**Infrastructure Category**	Plant & treatment
Division	Production	**Work type**	Replacement

Project Description

Purchase a new Metrohm unit for use by SPRWS lab staff. An auto-sampler should be included along with this purchase as well.

Background

The Lab relies on the Metrohm auto titrator as the primary instrument for fluoride, hardness, alkalinity, and chloride analysis. It provides quick reliable results for parameters that are regulatory, indicative of proper treatment, or used to determine if water samples are our water. SPRWS is required by the MDH to analyze fluoride concentrations daily. We also use the Metrohm to check our online alkalinity meter which is used to set proper lime dosing.

This project has been included in the 2025 capital plan because the new Metrohm will be useful in analyzing samples associated with the startup of the new McCarron's Water Treatment Plant.

Strategic Plan Goal

Quality water

Schedule

Planning	2025
Design	2025
Construction	2025
Completion	2025

Operational Implications

If this lab equipment breaks down, SPRWS will be forced to rely upon outside labs to process samples and to provide information. This would lead to higher operational expenses due to the need to pay an outside lab for extensive testing.

Project References

NOTES

The Metrohm was purchased in 2013. SPRWS IS has struggled with updating the lab computer connected to the Metrohm because of software upgrade limitations. In addition to the instrument software being outdated, the Metrohm has a significant number of mechanical components that provide proper titrant dosing during titrations. Over time, these components wear from regular use and will need to be replaced.

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	80k										80k
Bond											0k
Grant											0k
Total	80k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**80k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	80k										80k
Total	80k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**80k**

Project Name	Microwave Digester Replacement	**Infrastructure Category**	Plant & treatment
Division	Production	**Work type**	Replacement

Project Description

Purchase a new microwave digester unit for use by SPRWS lab staff.

Background

The microwave digester is an integral piece of equipment utilized in the analysis of metals and nutrients. The microwave breaks down or “digests” all forms of an element in a sample to a form that can be accurately measured by lab equipment such as the discrete analyzer or the ICP-MS.

The lab is accredited in lead analysis, which requires water samples to be digested prior to lead analysis if the turbidity is over 1 NTU. With the current changes to the lead and copper rule, the lead service line removal program, the updated corrosion control program, and the continued consumer interest in lead testing, it is imperative that we can accurately analyze all lead samples that are received by the lab.

Strategic Plan Goal

Quality water

Schedule

Planning	2025
Design	2025
Construction	2026
Completion	2026

Operational Implications

No meaningful impacts to operating expenses are expected to result from this project.

The project does reduce our risk profile.

Project References

NOTES

With the addition of ortho-phosphate to our corrosion control program, there will be continued interest in both ortho-phosphate and total phosphorous levels in our source water and drinking water. Also, with the transition from the Teledyne Torch to the Teledyne Fusion TOC analyzer the total nitrogen analyzer was discontinued. In order to analyze total nitrogen in the future we will have to revert to digesting samples before analysis.
The microwave digester is over 15 years old (in 2024). The supporting hardware and software are considered obsolete.

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital		50k									50k
Bond											0k
Grant											0k
Total	0k	50k	0k	0k	0k	0k	0k	0k	0k	0k	**50k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution		50k									50k
Total	0k	50k	0k	0k	0k	0k	0k	0k	0k	0k	**50k**

Project Name	Purchase of Water Quality Monitoring Devices for Distribution System	**Infrastructure Category**	Supply system
Division	Production	**Work type**	Expansion

Project Description

Identify water quality parameters that we'd like to monitor in real time, locations where we'd like to gather information, and appropriate instruments to monitor those parameters. Purchase and install instruments. Program SCADA to make realtime data visible and to log historical trends.

Background

Obtaining real-time water quality data from the distribution system is increasingly possible with modern technology. This project is a placeholder, with further definition needed. In general, however, these funds are being reserved for purchasing, installing, and programming field sensors so that we can actively monitor water quality in real time and can show water quality trends throughout our distribution system.

Strategic Plan Goal

Schedule

Planning	2025
Design	
Construction	2026-2034
Completion	2034

Operational Implications

Reduction in maintenance needs and reliability concerns with the pump station network.

Project References

NOTES

Unclear whether this should be included in Production or Distribution Division budget. To discuss further.

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital		18k	18k	18k	18k	18k	18k	30k	30k	30k	198k
Bond											0k
Grant											0k
Total	0k	18k	18k	18k	18k	18k	18k	30k	30k	30k	**198k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution		18k	18k	18k	18k	18k	18k	30k	30k	30k	198k
Total	0k	18k	18k	18k	18k	18k	18k	30k	30k	30k	**198k**

Project Name	ICPMS Machine with Autosampler	**Infrastructure Category**	Plant & treatment
Division	Production	**Work type**	Replacement

Project Description

Purchase a new ICPMS Machine with an Autosampler

Background

More information to come. This need was reported by lab staff during standard quarterly discussions of the capital plan.

Strategic Plan Goal

Schedule

Planning	
Design	
Construction	
Completion	

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital								400k			400k
Bond											0k
Grant											0k
Total	0k	0k	0k	0k	0k	0k	0k	400k	0k	0k	**400k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution								400k			400k
Total	0k	0k	0k	0k	0k	0k	0k	400k	0k	0k	**400k**

Project Name	McCarron's Water Treatment Plant Improvements	**Infrastructure Category**	Plant & treatment
Division	Production	**Work type**	Replacement

Project Description

Wholesale replacement of lime handling, softening, recarbonation, and raw water piping on McCarron's campus. Addition of ozone chemical feed. Construction of necessary utilities, structures, and systems necessary to support the new treatent infrastructure.

Background

In early 2022, SPRWS began construction on major improvements to the McCarron's Water Treatment Plant. The project is approximately 40% complete as of December 2023. The project is progressing on budget and on schedule.
The project was identified as a need through various studies, most notably a utility master plan conducted by CH2M Hill in 2014.
Design work for the project was completed in 2022. SPRWS has already contracted with CH2M Hill for $224,890,000 of construction work. A contract for various end-of-project tasks (final demolition, grading, laboratory improvements, etc.) is still needed. The funds identified below are being held for that final contract.

Strategic Plan Goal

Quality water

Infrastructure strategy and performance

Schedule

Planning	2019-2021
Design	2021-2022
Construction	2022-2026
Completion	2026

Operational Implications

There will be a learning curve for operations and maintenance staff as we begin to operate with the new facility. The addition of ozone as a treatment process may necessitate the addition of O&M staff. This will be counterbalanced by the fact that we'll be replacing older equipment prone to breakdowns with newer equipment that should not require much reactive maintenance.

Project References

NOTES

Note: The facility is expected to begin producing water in the latter half of 2025.

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital											0k
Bond											0k
Grant											0k
Total	0k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**0k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution											0k
Total	0k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**0k**

Project Name	WTP Equipment Replacements (Annual Allocation)	**Infrastructure Category**	Plant & treatment
Division	Production	**Work type**	Replacement

Project Description

Annual placeholder for equipment replacement projects for equipment that fails unexpectedly.

Background

A tremendous amount of equipment is required to operate the water treatment plant. While we're aiming to proactively plan replacements for specific valves and to include them in this 10 year plan, it's likely that we will have valve replacement requirements that have not been anticipated in this plan.

The amount of funding held actually decreases over time in anticipation of our team being better able to proactively plan for equipment replacements in future years. This will be achieved by improving collaboration with field staff and through use of the asset management system.

Strategic Plan Goal

Quality water

Infrastructure strategy and performance

Schedule

Planning	
Design	
Construction	2025-2033
Completion	2033

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	100k	100k	70k	70k	70k	70k	70k	70k	70k		690k
Bond											0k
Grant											0k
Total	100k	100k	70k	70k	70k	70k	70k	70k	70k	0k	**690k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution											0k
Total	0k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**0k**

Electrical and SCADA Projects

2025 – 2034 Capital Improvement Plan

Saint Paul Regional Water Services

Project Name	Replace 2 SLC PLCs in WTP	**Infrastructure Category**	Electrical & SCADA
Division	Production	**Work type**	Replacement

Project Description

Replace all remaining SLC PLCs in the McCarron's WTP (except those that well be replaced as part of the ongoing McCarron's WTP project). These PLCs should be replaced with Compact Logixs PLCs. Retire the DH+ network and DH+ bridge PLC.

Background

SPRWS still has some legacy SLC PLCs in operation in the McCarron's WTP. PLCs are vital to our operations as they control the operation of major equipment and allow for remote operations to be successful.

The existing SLC PLCs are obsolete, and replacement parts/materials can no longer be obtained for them. Continuing to rely upon this obsolete infrastructure to perform such a vital function amounts to running an open risk that is not acceptable to the utility.

All but 2 of these PLCs will be replaced as part of the McCarron's WTP project. This project is aimed at replacing the 2 SLC PLCs that will remain so that we are not left with any obsolete infrastructure.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	Q4 2024
Design	Q1 2025
Construction	2025
Completion	2025

Operational Implications

No meaningful impacts to operating expenses are expected to result from this project.

The project does reduce our risk profile.

Project References

NOTES

Project scope:
1) Provide PLC hardware, power, supply, ethernet switch 2) provide updated electrical schematics 3) program conversion - assumes no new functionality implemented 4) replace PLC hardware in existing cabinate, upgrade power supply, add network router (electrical labor by SPRWS) 5) PLC Startup and acceptance testing 6) update SCADA tags and modify screens as needed

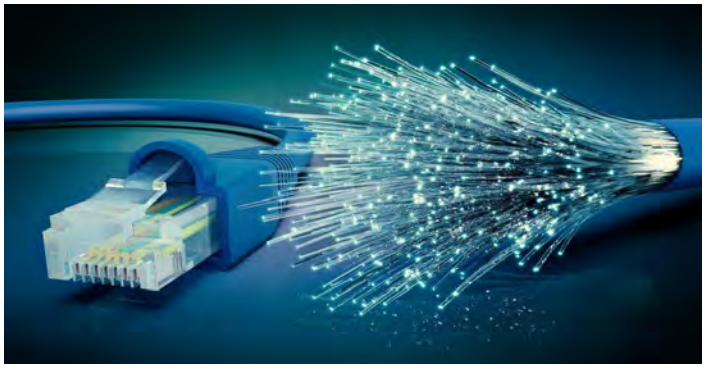
Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	78k										78k
Bond											0k
Grant											0k
Total	78k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**78k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	78k										78k
Total	78k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**78k**

Project Name	Electrical - Purchase Fiber Splicing Tools	**Infrastructure Category**	Electrical & SCADA
Division	Production	**Work type**	Expansion

Project Description

Purchase the tools necessary to repair fiberoptic cables



Background

SPRWS depends on a substantial amount of fiberoptic cable for communication lines. Fiberoptic cable is the backbone of the SCADA system, and a failure in fiberoptic cables can result in a loss of SCADA communications. In this instance, we would need emergency repairs.

Currently, SPRWS does not have the tools and equipment necessary to repair broken fiberoptic lines. Purchasing this equipment would help to ensure that we are prepared to make emergency repairs to our fiberoptic cabling as necessary. This is especially desirable since we're in a 24/7/365 business and do not want to have to depend on outside entities to maintain our critical operations.

Strategic Plan Goal

Infrastructure strategy and performance

High performing workforce

Schedule

Planning	
Design	2025
Construction	
Completion	2025

Operational Implications

Reduces the likelihood that we'll need to call in outside contractors.

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	20k										20k
Bond											0k
Grant											0k
Total	20k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**20k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	20k										20k
Total	20k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**20k**

Project Name	Electrical - Infrared Camera to Spot Electrical Issues	**Infrastructure Category**	Electrical & SCADA
Division	Production	**Work type**	Expansion

Project Description

Purchase 1 or 2 Infrared Cameras

Background

Infrared cameras are extremely handy for spotting issues with electrical equipment. They detect "hotspots" in electrical gear, which are essentially spots where there may be electrical arcs or where resistance is higher than expected. Equipped with an infrared gun, an electrician can efficiently diagnose electrical issues and remedy them. Not only that, good preventative maintenance practices would require the use of this type of equipment to periodically check on the health of electrical gear.

We already hire electrical contractors to utilize this type of equipment on our site, and we pay a premium for it. In the long run, we anticipate that we would save money by equipping ourselves with this tool. Further, by helping electricians quickly identify some electrical issues, the tool will help to pay for itself by freeing up staff time.

Strategic Plan Goal

Infrastructure strategy and performance

High performing workforce

Schedule

Planning	
Design	2025
Construction	
Completion	2025

Operational Implications

Reduces the likelihood that we'll need to call in outside contractors.

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	12k										12k
Bond											0k
Grant											0k
Total	12k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**12k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	12k										12k
Total	12k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**12k**

Project Name	Replace or Add SCADA Instruments to Improve Critical Data Accuracy	**Infrastructure Category**	Electrical & SCADA
Division	Production	**Work type**	Expansion

Project Description

Add flow meters for phosphoric acid system and for fluoride system to allow for independent, 3-point verification of chemical feed rates.
Identify any other areas in which outdated SCADA instrumentation is contributing to vital measurements/data and replace this infrastructure.

Background

The current SCADA system depends on some old metering/measuring equipment in certain locations. Some of this equipment is responsible for measuring values that are essential to effective operations (for example tank levels, pressure levels, flow measurements that impact chemical dosing, etc.) This project is aimed at identifying old equipment that supports these operations and updating/replacing it.

There will be a corresponding O&M effort aimed at calibrating old equipment that plays a vital role in these functions as well. Funds for calibration will be budgeted in the O&M Budget

Included in this effort is adding flow meters for phosphoric acid and fluoride.

Strategic Plan Goal

Infrastructure strategy and performance

Quality water

Schedule

Planning	2024
Design	
Construction	2025
Completion	2025

Operational Implications

No meaningful impacts

Project References

NOTES

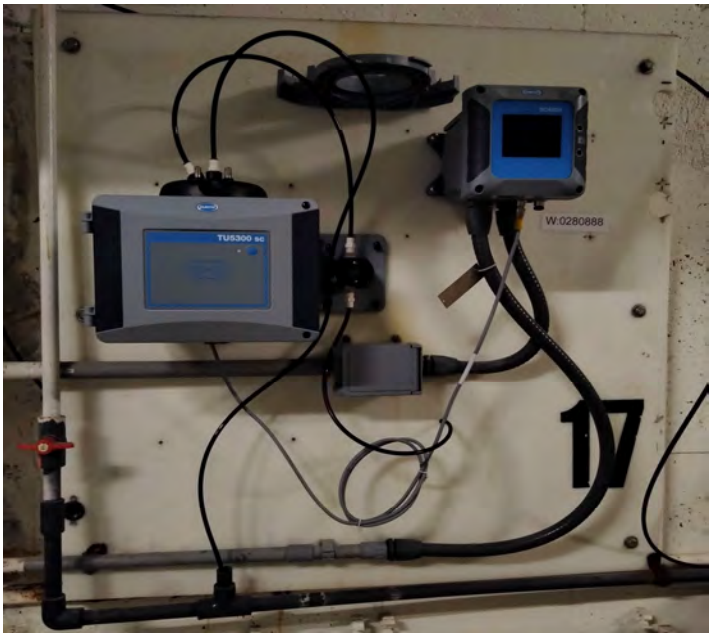
Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	35k										35k
Bond											0k
Grant											0k
Total	35k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**35k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	35k										35k
Total	35k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**35k**

Project Name	Turbidimeter Improvements	**Infrastructure Category**	Electrical & SCADA
Division	Production	**Work type**	Replacement

Project Description

Add Ethernet/IP communication cards to existing turbidity meters.
Configure PLCs to communicated and pull extra data from meters.



Background

Most Turbidity meters are currently running on analog networks leading to increased PLC hardware requirements, decreased noise immunity and accuracy and a single data point per analog pair.

Upgrade communications to the meters to obtain additional data points (Turbidity and Flow), increase accuracy of data collected, and reduce PLC hardware required

Strategic Plan Goal

Quality water

Schedule

Planning	2024
Design	
Construction	2025
Completion	2025

Operational Implications

No meaningful impacts

Project References

NOTES

Scope: 1) Communication card hardware
- 24 filters
- Terminal Chambers (cannot be completed until PLC R1, R2 are updated as part of WTP)
2) PLC software modifications - add comms config and additional data points
3) SCADA software modification - add additional data points and historize data

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	62k										62k
Bond											0k
Grant											0k
Total	62k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**62k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	62k										62k
Total	62k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**62k**

Project Name	Replace 13 Remaining SLC PLCs at Remote Sites	**Infrastructure Category**	Electrical & SCADA
Division	Production	**Work type**	Replacement

Project Description

Replace all remaining SLC PLCs (except those at 3 wells). These PLCs should be replaced with Compact Logixs PLCs. Continue transition to ethernet network and retire the radio network.

Background

SPRWS still has16 SLC PLCs in operation at remote stations. 6 water towers, 3 wells, 5 pumping stations, Lake Vadnais and LC Flume

PLCs are vital to our operations as they control the operation of major equipment and allow for remote operations to be successful.

The existing SLC PLCs are obsolete, and replacement parts/materials can no longer be obtained for them. Continuing to rely upon this obsolete infrastructure to perform such a vital function amounts to running an open risk that is not acceptable to the utility.

A separate project has been budgeted for a later year to address the SLC PLCs at Vadnais wells since the obsolete PLCs controll infrastructure that is used only infrequently.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	QX 202_ - QX-202_
Design	QX 202_ - QX-202_
Construction	QX 202_ - QX-202_
Completion	QX-202_

Operational Implications

No meaningful impacts to operating expenses are expected to result from this project.

The project does reduce our risk profile.

Project References

Tanks assumed to cost $7,900 per tank in labor
Pump Stations Assumed to cost $60,000 per station in labor
Power supply and parts assumed to be an additional $12k and $230k respectively

NOTES

Pending confirmation, below is the list of sites that are beliweved to have SLC PLCs in place still:
Water Tower Sites: Cottage, McKnight, Mendota, Sterling, Cleveland, Fairgrounds
Pumping Station Sites: Fridley PS & Fridley Ferric Chloride Pumping, Roselawn, St. Anthony, Beebe, Hayden Heights

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	150k	150k	150k	175k							625k
Bond											0k
Grant											0k
Total	150k	150k	150k	175k	0k	0k	0k	0k	0k	0k	**625k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	150k	150k	150k	175k							625k
Total	150k	150k	150k	175k	0k	0k	0k	0k	0k	0k	**625k**

Project Name	Standardize SCADA Interfaces for McCarron's WTP	**Infrastructure Category**	Building and grounds
Division	Production	**Work type**	Rehabilitation

Project Description

Revamp the SCADA screens for portions of the McCarron's WTP that will not be impacted by the McCarron's WTP Project (for example: filtration) Develop high-performance operator interfaces that are consistent with the operator interfaces for new WTP processes. Collaboration with a consultant is anticipated.

Background

When the McCarron's WTP project is complete, the plant will be a combination of old and new infrastructure. Likewise, we'll have many brand new SCADA screens and many pre-existing screens. New screens are being set up to be visually different than existing screens and will use modern SCADA standards and best practices.

The goal of this project will be to update the SCADA screens for the portions of the treatment plant/process that will not be replaced during the McCarron's WTP project. The intent is to mimic the design standards used on the McCarron's WTP project since we believe that these will be an operational improvement on the existing system.

Strategic Plan Goal

High performing workforce

Infrastructure strategy and performance

Quality water

Schedule

Planning	QX 202_ - QX-202_
Design	QX 202_ - QX-202_
Construction	QX 202_ - QX-202_
Completion	QX-202_

Operational Implications

Should reduce the learning curve for operators and make us somewhat more efficient opperationally

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	140k										140k
Bond											0k
Grant											0k
Total	140k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**140k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	140k										140k
Total	140k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**140k**

Project Name	Replacement of SCADA Infrastructure	**Infrastructure Category**	Electrical & SCADA
Division	Production	**Work type**	Replacement

Project Description

Purchase and install new SCADA hardware to proactively replace aging infrastructure that is reaching the end of its useful life

Background

SCADA infrastructure is truly the backbone of our operation. Without functional SCADA systems, operators are left mostly blind to what is happening throughout the plant and the distribution system and operations become extremely difficult.

This SCADA system depends on hardware installed around the McCarron's Campus and at Remote Stations. Most of this hardware has a lifespan on the order of 10-15 years before it becomes obsolete and represents a security/reliability risk.

With these funds, we will place all SCADA infrastructure on a replacement cycle to ensure that we proactively replace equipment that is reaching the end of its useful life.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	2025
Design	
Construction	2026-2033
Completion	2033

Operational Implications

No meaningful impacts to operating expenses are expected to result from this project.

The project does reduce our risk profile.

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital		45k	45k	45k	45k	45k	45k	85k	85k	85k	525k
Bond											0k
Grant											0k
Total	0k	45k	45k	45k	45k	45k	45k	85k	85k	85k	**525k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution		45k	45k	45k	45k	45k	45k	85k	85k	85k	525k
Total	0k	45k	45k	45k	45k	45k	45k	85k	85k	85k	**525k**

Project Name	Replace All Remaining SLC PLCs at Vadnais Station	**Infrastructure Category**	Electrical & SCADA
Division	Production	**Work type**	Replacement

Project Description

Replace 3 remaining SLC PLCs at raw water supply wells. These PLCs should be replaced with Compact Logixs PLCs. Continue transition to ethernet network and retire the radio network.

Background

SPRWS still has SLC PLCs in operation at 3 raw water supply wells. PLCs are vital to our operations as they control the operation of major equipment and allow for remote operations to be successful.

The existing SLC PLCs are obsolete, and replacement parts/materials can no longer be obtained for them. Continuing to rely upon this obsolete infrastructure to perform such a vital function amounts to running an open risk that is not acceptable to the utility.

A separate project has been budgeted for an earlier year to address the SLC PLCs at the water treatment plant and at other remote stations since those PLCs are utilized to control equipment that is operated more frequently than the wells.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	2026
Design	
Construction	2027
Completion	2027

Operational Implications

No meaningful impacts to operating expenses are expected to result from this project.

The project does reduce our risk profile.

Project References

NOTES

Goes hand-in-hand with project to replace Improve Communications Infrastructure from Wells to Water Treatment Plant (in O&M Plan for 2027)

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital			45k								45k
Bond											0k
Grant											0k
Total	0k	0k	45k	0k	0k	0k	0k	0k	0k	0k	**45k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution			45k								45k
Total	0k	0k	45k	0k	0k	0k	0k	0k	0k	0k	**45k**

Project Name	Switchgear H Replacement	**Infrastructure Category**	Electrical & SCADA
Division	Production	**Work type**	Replacement

Project Description

Replace Switchgear H with new, comparable infrastructure

Background

Switchgear H provides power to the administration building, the warehouse, and the garage. Per discussions with our electrical team, I understand that this equipment is very old and that replacement should be considered.

Strategic Plan Goal

Schedule

Planning	2028
Design	
Construction	2029
Completion	2029

Operational Implications

Reduction in maintenance needs and reliability concerns with the pump station network.

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Capital					650k						650k
Bond											0k
Grant											0k
Total	0k	0k	0k	0k	650k	0k	0k	0k	0k	0k	**650k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution					650k						650k
Total	0k	0k	0k	0k	650k	0k	0k	0k	0k	0k	**650k**

Project Name	Electrical Improvements on McCarron's Campus	**Infrastructure Category**	Electrical & SCADA
Division	Production	**Work type**	Rehabilitation

Project Description

Make improvements to electrical infrastructure on campus

Background

SPRWS recently secured Master Contracts with several electrical engineering firms. These contracts will play a vital role in helping to identify long-term electrical capital needs, which are currently not well understood. These funds are reserved in anticipation of finding that capital spending to improve electrical infrastructure on campus is necessary.

Strategic Plan Goal

Infrastructure strategy and performance

Energy and water resource sustainability

Schedule

Planning	2029
Design	
Construction	2030
Completion	2030

Operational Implications

Reduction in maintenance needs and reliability concerns with the pump station network.

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital						800k	1,400k			350k	2,550k
Bond											0k
Grant											0k
Total	0k	0k	0k	0k	0k	800k	1400k	0k	0k	350k	**2550k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution						800k	1,400k			350k	2550k
Total	0k	0k	0k	0k	0k	800k	1400k	0k	0k	350k	**2550k**

Project Name	W64 and W72 Power Feed - Remote Monitoring	**Infrastructure Category**	Electrical & SCADA
Division	Production	**Work type**	Expansion

Project Description

Add remote monitoring to the W64 and W72 stations

Background

The W64 and W72 stations are two of the most vital pieces of equipment that SPRWS owns since they are the power supplies to the entirety of the McCarron's Campus. These stations were constructed with gauges that monitor temperature, pressure, and other relevant variables that indicate the health of the equipment but the gauges are not connected to SCADA.

It would be far better to be able to monitor this data via SCADA. First off, doing so would allow us to write code to actively monitor the health of the equipment for us (for example: provide a notification to SPRWS staff when/if temperature exceeds ___ degrees.) Secondly, logging historical data would help with troubleshooting as it could help us spot the emergence of troubling trends.

Strategic Plan Goal

Energy and water resource sustainability

Infrastructure strategy and performance

Schedule

Planning	2030
Design	
Construction	2031
Completion	2031

Operational Implications

No meaningful change in operational costs anticipated

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital							70k				70k
Bond											0k
Grant											0k
Total	0k	0k	0k	0k	0k	0k	70k	0k	0k	0k	**70k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution							70k				70k
Total	0k	0k	0k	0k	0k	0k	70k	0k	0k	0k	**70k**

Project Name	Add Thickener Building to 480 V Electrical Loop	**Infrastructure Category**	Electrical & SCADA
Division	Production	**Work type**	Expansion

Project Description

Add Thickener Building to 480 V Electrical Loop

Background

Discussions with Production Division Management have suggested that adding the sludge thickener building to a looped 480 volt system of power distribution is advisable. These funds are reserved for that purpose, though the project is vaguely defined at this point.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	2031
Design	
Construction	2032
Completion	2032

Operational Implications

This will improve redundancy to the thickener building

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital								400k			400k
Bond											0k
Grant											0k
Total	0k	0k	0k	0k	0k	0k	0k	400k	0k	0k	**400k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution								400k			400k
Total	0k	0k	0k	0k	0k	0k	0k	400k	0k	0k	**400k**

Project Name	SCADA Redundancy in Communications to Dewatering	**Infrastructure Category**	Electrical & SCADA
Division	Production	**Work type**	Expansion

Project Description

1. Add a second, redundant fiberoptic line so that the risk of failure is reduced or 2. move essential SCADA infrastructure from the dewatering building into the water treatment plant so that there is no longer a single point of failure for the entire system.

Background

The dewatering building holds some SCADA infrastructure that is vital to the operations of our entire SCADA system. A single fiberoptic cable carries SCADA communications between the water treatment plant and the dewatering building. In the event that this single line failed, the SCADA system would go down.

This project is expected to achieve one of the following goals: 1. add a second, redundant fiberoptic line so that the risk of failure is reduced or 2. move essential SCADA infrastructure from the dewatering building into the water treatment plant so that there is no longer a single point of failure for the entire system.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	2031
Design	
Construction	2032
Completion	2032

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital								200k			200k
Bond											0k
Grant											0k
Total	0k	0k	0k	0k	0k	0k	0k	200k	0k	0k	**200k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution								200k			200k
Total	0k	0k	0k	0k	0k	0k	0k	200k	0k	0k	**200k**

Project Name	Chemical Delivery Panel for Central Chemical Areas	**Infrastructure Category**	Plant & treatment
Division	Production	**Work type**	Rehabilitation

Project Description

Create and install a panel that can be utilized to monitor deliveries of ferric chloride, sodium hydroxide, phosphoric acid, and fluoride.

Background

At present, the delivery panels for deliveries to the central chemical area are non-functional and are disregarded during chemical deliveries. As a workaround, our team visually monitors chemical deliveries into the tanks.

Create a chemical tank level monitoring station for delivery drivers to monitor tank levels during delivery to prevent chemical spills without need to enter chemical storage rooms.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	2032
Design	
Construction	2033
Completion	2033

Operational Implications

Project References

NOTES

We may be able to do this via mobile application/tablet in the future, reducing the need for this capital expense.

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital									45k		45k
Bond											0k
Grant											0k
Total	0k	0k	0k	0k	0k	0k	0k	0k	45k	0k	**45k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution									45k		45k
Total	0k	0k	0k	0k	0k	0k	0k	0k	45k	0k	**45k**

Project Name	SCADA System Refresh	**Infrastructure Category**	Electrical & SCADA
Division	Production	**Work type**	Rehabilitation

Project Description

Placeholder for anticipated SCADA work

Background

SPRWS recently secured Master Contracts with several electrical engineering firms. These contracts will play a vital role in helping to identify long-term SCADA capital needs, which are currently not well understood. These funds are reserved in anticipation of finding that capital spending to improve SCADA infrastructure on campus is necessary.

Strategic Plan Goal

Infrastructure strategy and performance

Quality water

High performing workforce

Schedule

Planning	
Design	
Construction	
Completion	

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Capital										450k	450k
Bond											0k
Grant											0k
Total	0k	0k	0k	0k	0k	0k	0k	0k	0k	450k	**450k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution										450k	450k
Total	0k	0k	0k	0k	0k	0k	0k	0k	0k	450k	**450k**

Project Name	McCarron's Pumping - Replace 125 V DC Valve Controllers for Pumps	**Infrastructure Category**	Pumps
Division	Production	**Work type**	Replacement

Project Description

Improve reliability in electrical system that powers pump discharge valves by adding redundancy or replacing older equipment with more modern equipment

Background

When operating a pump, the timing of the opening/closing of the discharge valve is particularly critical. The pump startup will fail if the discharge valve fails to open.
All pumps at the McCarron's station depend upon the same 125 volt direct current system to open/close discharge valves. This system is a single point of failure and a liability.
In order to address this single point of failure in a critical system, several approaches should be considered: 1. Moving all discharge valves to a 480 V AC system, 2. Creating redundancy in the 125 V DC system to eliminate the single point of failure, 3. Moving only some discharge valves to a 480 V AC system so that a failure in the 125 V DC system does not result in a full loss of pumping.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	Q2 2025
Design	Q4 2025 to Q2 2026
Construction	2026
Completion	2027

Operational Implications

Project References

NOTES

SPRWS will work with a hired electrical engineering firm to consider approaches to address this issue and effectively manage both risk and cost.

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital		300k									300k
Bond											0k
Grant											0k
Total	0k	300k	0k	0k	0k	0k	0k	0k	0k	0k	**300k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution		300k									300k
Total	0k	300k	0k	0k	0k	0k	0k	0k	0k	0k	**300k**

Pump Station Projects

2025 – 2034 Capital Improvement Plan

Saint Paul Regional Water Services

Project Name	Beebe	**Infrastructure Category**	Pumps
Division	Distribution	**Work type**	Rehabilitation

Project Description

Addition of a permanent generator.
Instrumentation and communication upgrades.
Building Rehabilitation and Generator Installation.
Replacement of pumps and valves.

Background

In November 2023 the Pump Station Master Plan was finalized. The intent of this report was to assist with identifying and evaluating pump stations assets. The asset improvements identified in the report are based on visual inspections completed as part of the field investigations by a consultant and discussions with SPRWS staff. The report summarizes the assets at each pump station, identifies improvements, and provides budgetary costs for improvements. Staff used the recommendations outline in this report to inform the proposed infrastructure investments outline for this asset.

Strategic Plan Goal

Financial stability

Infrastructure strategy and performance

Schedule

Instrument and comms upgrade	2025
Generator	2026
Building and Site Rehabilitation	2026 & 2029
Replace pumps and valves	2026

Operational Implications

Reduction in maintenance needs and reliability concerns with the pump station network.

Project References

Pump station master plan

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	16,200	1,011,800	0	0	87,800	0	0	0	0	0	1,115,800
Bond											
Grant											
Total	16,200	1,011,800	0	0	87,800	0	0	0	0	0	**1,115,800**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	16,200	1,011,800	0	0	87,800	0	0	0	0	0	1,115,800
Total	16,200	1,011,800	0	0	87,800	0	0	0	0	0	**1,115,800**

Project Name	Hazel Park	**Infrastructure Category**	Pumps
Division	Distribution	**Work type**	Rehabilitation

Project Description

Addition of a permanent generator.
Instrumentation and communication upgrades.
Building Rehabilitation and Generator Installation.
Replacement of pumps and valves.

Background

In November 2023 the Pump Station Master Plan was finalized. The intent of this report was to assist with identifying and evaluating pump stations assets. The asset improvements identified in the report are based on visual inspections completed as part of the field investigations by a consultant and discussions with SPRWS staff. The report summarizes the assets at each pump station, identifies improvements, and provides budgetary costs for improvements. Staff used the recommendations outline in this report to inform the proposed infrastructure investments outline for this asset.

Strategic Plan Goal

Financial stability

Infrastructure strategy and performance

Schedule

Generator	2025
Instrument and comms upgrade	2025
Exterior Site Rehabilitation	2027
Building Rehabilitation	2029
Replace pumps and valves	2029

Operational Implications

Reduction in maintenance needs and reliability concerns with the pump station network.

Project References

Pump station master plan

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	308,300	0	76,000	0	676,900	0	0	0	0	0	1,061,200
Bond											
Grant											
Total	308,300	0	76,000	0	676,900	0	0	0	0	0	**1,061,200**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	308,300	0	76,000	0	676,900	0	0	0	0	0	1,061,200
Total	308,300	0	76,000	0	676,900	0	0	0	0	0	**1,061,200**

Project Name	Highland #1	**Infrastructure Category**	Pumps
Division	Distribution	**Work type**	Rehabilitation

Project Description

Instrumentation and communication upgrades.
Building Rehabilitation and Security improvements.
Replacement of pumps and valves.

Background

In November 2023 the Pump Station Master Plan was finalized. The intent of this report was to assist with identifying and evaluating pump stations assets. The asset improvements identified in the report are based on visual inspections completed as part of the field investigations by a consultant and discussions with SPRWS staff. The report summarizes the assets at each pump station, identifies improvements, and provides budgetary costs for improvements. Staff used the recommendations outline in this report to inform the proposed infrastructure investments outline for this asset.

Strategic Plan Goal

Financial stability

Infrastructure strategy and performance

Schedule

Building Rehabilitation	2025/2030/2031
Instrument and comms upgrade	2025
Security improvements	2030
Replace pumps and valves	2031

Operational Implications

Reduction in maintenance needs and reliability concerns with the pump station network.

Project References

Pump station master plan

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	21,600	0	0	28,000	0	27,600	573,200	0	0	0	650,400
Bond											
Grant											
Total	21,600	0	0	28,000	0	27,600	573,200	0	0	0	**650,400**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	21,600	0	0	28,000	0	27,600	573,200	0	0	0	650,400
Total	21,600	0	0	28,000	0	27,600	573,200	0	0	0	**650,400**

Project Name	Highland #2	**Infrastructure Category**	Pumps
Division	Distribution	**Work type**	Rehabilitation

Project Description

Structure Rehabilitation and communication upgrades.
Safety and security improvements.
Replacement of pumps and valves

Background

In November 2023 the Pump Station Master Plan was finalized. The intent of this report was to assist with identifying and evaluating pump stations assets. The asset improvements identified in the report are based on visual inspections completed as part of the field investigations by a consultant and discussions with SPRWS staff. The report summarizes the assets at each pump station, identifies improvements, and provides budgetary costs for improvements. Staff used the recommendations outline in this report to inform the proposed infrastructure investments outline for this asset.

Strategic Plan Goal

Financial stability

Infrastructure strategy and performance

Schedule

Structure Rehabilitation	2025/2026/2028
Instrument and comms upgrade	2025
Replace pump	2028
Security improvements	2030

Operational Implications

Reduction in maintenance needs and reliability concerns with the pump station network.

Project References

Pump station master plan

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	37,900	11,200	0	459,600	0	27,600	0	0	0	0	536,300
Bond											
Grant											
Total	37,900	11,200	0	459,600	0	27,600	0	0	0	0	**536,300**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	37,900	11,200	0	459,600	0	27,600	0	0	0	0	536,300
Total	37,900	11,200	0	459,600	0	27,600	0	0	0	0	**536,300**

Project Name	Mailand	**Infrastructure Category**	Pumps
Division	Distribution	**Work type**	Rehabilitation

Project Description

Instrumentation and communication upgrades.
Security improvements.
Building Rehabilitation
Install Permanent Generator
Replacement of pumps, valves, MCC, and Electrical

Background

In November 2023 the Pump Station Master Plan was finalized. The intent of this report was to assist with identifying and evaluating pump stations assets. The asset improvements identified in the report are based on visual inspections completed as part of the field investigations by a consultant and discussions with SPRWS staff. The report summarizes the assets at each pump station, identifies improvements, and provides budgetary costs for improvements. Staff used the recommendations outline in this report to inform the proposed infrastructure investments outline for this asset.

Strategic Plan Goal

Financial stability

Infrastructure strategy and performance

Schedule

Replace Electrical, Install Gen	2024
Instrument and comms upgrade	2024
Building Rehabilitation	2028
Security improvements	2028

Operational Implications

Reduction in maintenance needs and reliability concerns with the pump station network.

Project References

Pump station master plan

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	0	0	0	136,100	0	0	0	0	0	0	136,100
Bond											
Grant											
Total	0	0	0	136,100	0	0	0	0	0	0	**136,100**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	0	0	0	136,100	0	0	0	0	0	0	136,100
Total	0	0	0	136,100	0	0	0	0	0	0	**136,100**

Project Name	Roselawn	**Infrastructure Category**	Pumps
Division	Distribution	**Work type**	Rehabilitation

Project Description

Instrumentation and communication upgrades.
Security improvements.
Pump and Valve Replacement.
Add Dehumidification
Building and Site Rehabilitation.

Background

In November 2023 the Pump Station Master Plan was finalized. The intent of this report was to assist with identifying and evaluating pump stations assets. The asset improvements identified in the report are based on visual inspections completed as part of the field investigations by a consultant and discussions with SPRWS staff. The report summarizes the assets at each pump station, identifies improvements, and provides budgetary costs for improvements. Staff used the recommendations outline in this report to inform the proposed infrastructure investments outline for this asset.

Strategic Plan Goal

Financial stability

Infrastructure strategy and performance

Schedule

Instrument and comms upgrade	2025
Building and Site Rehabilitation	2026/2027/2030
Replace pumps and valves	2030
Security improvements	2030

Operational Implications

Reduction in maintenance needs and reliability concerns with the pump station network.

Project References

Pump station master plan

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	10,800	16,900	108,000	0	0	700,600	0	0	0	0	836,300
Bond											
Grant											
Total	10,800	16,900	108,000	0	0	700,600	0	0	0	0	**836,300**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	10,800	16,900	108,000	0	0	700,600	0	0	0	0	836,300
Total	10,800	16,900	108,000	0	0	700,600	0	0	0	0	**836,300**

Project Name	St Anthony	**Infrastructure Category**	Pumps
Division	Distribution	**Work type**	Rehabilitation

Project Description

Instrumentation and communication upgrades.
Security improvements.
Replace Motor Control Center and Lighting Transformer.
Replacement of pumps and valves.
Building and Exterior Rehabilitation

Background

In November 2023 the Pump Station Master Plan was finalized. The intent of this report was to assist with identifying and evaluating pump stations assets. The asset improvements identified in the report are based on visual inspections completed as part of the field investigations by a consultant and discussions with SPRWS staff. The report summarizes the assets at each pump station, identifies improvements, and provides budgetary costs for improvements. Staff used the recommendations outline in this report to inform the proposed infrastructure investments outline for this asset.

Strategic Plan Goal

Financial stability

Infrastructure strategy and performance

Schedule

Instrument and comms upgrade	2025
Building and Site Rehabilitation	2025, 2027, 2031
Replace pumps and valves	2027
Security improvements	2031

Operational Implications

Reduction in maintenance needs and reliability concerns with the pump station network.

Project References

Pump station master plan

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	32,900	0	873,800	0	0	0	72,500	0	0	0	979,200
Bond											
Grant											
Total	32,900	0	873,800	0	0	0	72,500	0	0	0	**979,200**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	32,900	0	873,800	0	0	0	72,500	0	0	0	979,200
Total	32,900	0	873,800	0	0	0	72,500	0	0	0	**979,200**

Project Name	West Side	**Infrastructure Category**	Pumps
Division	Distribution	**Work type**	Rehabilitation

Project Description

Instrumentation and communication upgrades.
Security improvements.
Building and Site Rehabilitation.
Replacement of pumps and valves.

Background

In November 2023 the Pump Station Master Plan was finalized. The intent of this report was to assist with identifying and evaluating pump stations assets. The asset improvements identified in the report are based on visual inspections completed as part of the field investigations by a consultant and discussions with SPRWS staff. The report summarizes the assets at each pump station, identifies improvements, and provides budgetary costs for improvements. Staff used the recommendations outline in this report to inform the proposed infrastructure investments outline for this asset.

Strategic Plan Goal

Financial stability

Infrastructure strategy and performance

Schedule

Instrument and comms upgrade	2025
Safety improvements	2025, 2028, 2031
Security improvements	2031

Operational Implications

Reduction in maintenance needs and reliability concerns with the pump station network.

Project References

Pump station master plan

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	61,700	0	0	48,700	0	0	153,300	0	0	0	263,700
Bond											
Grant											
Total	61,700	0	0	48,700	0	0	153,300	0	0	0	**263,700**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	61,700	0	0	48,700	0	0	153,300	0	0	0	263,700
Total	61,700	0	0	48,700	0	0	153,300	0	0	0	**263,700**

Project Name	West St Paul	**Infrastructure Category**	Pumps
Division	Distribution	**Work type**	Rehabilitation

Project Description

Instrumentation and communication upgrades.
Security improvements.
Building Rehabilitation.

Background

In November 2023 the Pump Station Master Plan was finalized. The intent of this report was to assist with identifying and evaluating pump stations assets. The asset improvements identified in the report are based on visual inspections completed as part of the field investigations by a consultant and discussions with SPRWS staff. The report summarizes the assets at each pump station, identifies improvements, and provides budgetary costs for improvements. Staff used the recommendations outline in this report to inform the proposed infrastructure investments outline for this asset.

Strategic Plan Goal

Financial stability

Infrastructure strategy and performance

Schedule

Instrument and comms upgrade	2025
Building Rehabilitation	2027 & 2031
Security improvements	2031

Operational Implications

Reduction in maintenance needs and reliability concerns with the pump station network.

Project References

Pump station master plan

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	16,200	0	26,300	0	0	0	47,100	0	0	0	89,600
Bond											
Grant											
Total	16,200	0	26,300	0	0	0	47,100	0	0	0	**89,600**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	16,200	0	26,300	0	0	0	47,100	0	0	0	89,600
Total	16,200	0	26,300	0	0	0	47,100	0	0	0	**89,600**

Project Name	Low Service Pump Replacement	**Infrastructure Category**	Pumps
Division	Production	**Work type**	Replacement

Project Description

Replace one low service pump and install a variable frequency drive.

Background

Four pumps serve the low service system, and they have each been in service for an extended period of time. This project anticipates replacing one of these pumps and potentially including a VFD as well.

This project has been scheduled with the assumption that it will be optimal to replace a low service pump prior to the low service reservoir demolition/replacement project.

The O&M spending plan calls for a holistic review of low service pumping in 2025. That review will ultimately inform our decisions about whether this project should be pursued in 2027 as planned and should provide us with better cost estimates.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	2026
Design	2026
Construction	2027
Completion	2027

Operational Implications

Likely to result in some electrical savings

Project References

NOTES

Note: The O&M Budget for 2025 includes a project to investigate Low Service Pumping. This project may need to move up in the budget

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital			450k								450k
Bond											0k
Grant											0k
Total	0k	0k	450k	0k	0k	0k	0k	0k	0k	0k	**450k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution			450k								450k
Total	0k	0k	450k	0k	0k	0k	0k	0k	0k	0k	**450k**

Project Name	High Service Pump Replacement	**Infrastructure Category**	Pumps
Division	Production	**Work type**	Replacement

Project Description

Replace a high service pump

Background

Several pumps serve the high service system, and they have each been in service for an extended period of time. This project anticipates replacing one of these pumps and potentially including a VFD as well.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	2031
Design	
Construction	2032
Completion	2032

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital								1,300k			1,300k
Bond											0k
Grant											0k
Total	0k	0k	0k	0k	0k	0k	0k	1300k	0k	0k	**1300k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution								1300k			1300k
Total	0k	0k	0k	0k	0k	0k	0k	1300k	0k	0k	**1300k**

Water Storage Projects

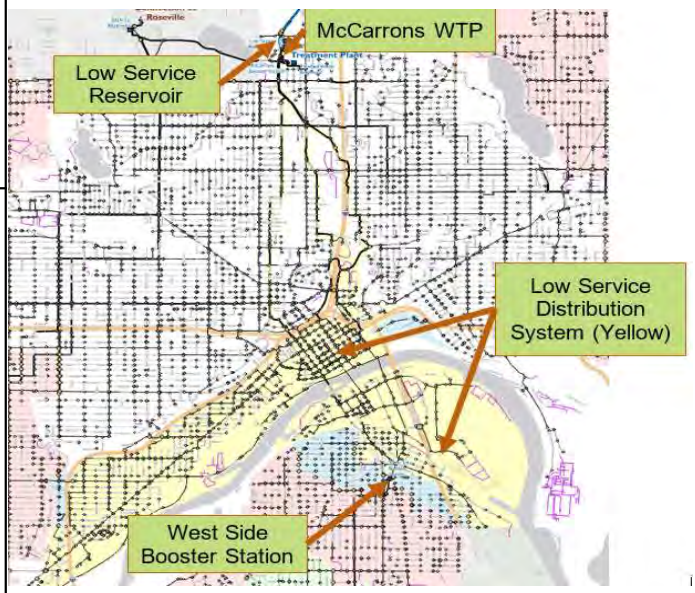
2025 – 2034 Capital Improvement Plan

Saint Paul Regional Water Services

Project Name	Surge Tank Construction (in Prep. For LS Reservoir Demo.)	**Infrastructure Category**	Storage
Division	Production	**Work type**	Expansion

Project Description

SPRWS anticipates constructing a surge tank in advance of the planned reconstruction of the Low Service Reservoir (see separate CIP sheet).



Background

As referenced elsewhere in the CIP, SPRWS anticipates that replacement of the Low Service reservoir will be necessary in the next ten years. Historically, we have struggled to operate when the Low Service Reservoir is taken offline. For example, we have had large-diameter main breaks in this scenario.

We believe that these operational struggles are due to pumps without VFDs pumping directly into the distribution pipeline with no pressure break.

Strategic Plan Goal

Excellent customer service

Infrastructure strategy and performance

Schedule

Planning	2025
Design	2026
Construction	2026-2027
Completion	2027

Operational Implications

This would be a new piece of equipment to maintain, albeit one with fairly minimal maintenance requirements

Project References

Jacobs engineering has performed a preliminary investigation of this concept. The resulting report can be found here:

V:\Production\Budgeting and Capital Planning\2. Capital Planning\3. Project Information\Surge Tank or Tower for Low Service

NOTES

Constructing this surge tank should allow the low service area to operate without wide swings in pressure upon pump startup/shut down. Doing this work in advance of the LS Reservoir reconstruction will give us the opportunity to operate in this scenario for an extended period of time prior to taking the LS Reservoir out of service. Also, constructing this in advance will give us the opportunity to fully investigate the condition of the existing Low Service Reservoir to determine if replacement is truly the best course of action.

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital		150k	1150k								1300k
Bond											0k
Grant											0k
Total	0k	150k	1150k	0k	0k	0k	0k	0k	0k	0k	**1300k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution		150k	1150k								1300k
Total	0k	150k	1150k	0k	0k	0k	0k	0k	0k	0k	**1300k**

Project Name	Low Service Reservoir Replacement	**Infrastructure Category**	Storage
Division	Production	**Work type**	Replacement

Project Description

Anticipated work scope includes demolition of the existing low service reservoir and construction of a new reservoir on the McCarron's Campus.
Further inspection of the reservoir is desirable to determine whether replacement is necessary or if rehabilitation may be possible.

Background

The Low Service Reservoir was originally constructed in the 1920s. In past years, we've experienced issues with leaking from this reservoir. At times, the source of the leakage is impossible to identify/locate. One such leak that could not be located and fixed has limited our ability to operate the reservoir.

Ongoing construction at the McCarron's Water Treatment Plant has revealed elevated water tables. These elevated water tables may be due to leakage in the low service reservoir. Various tests have been inconclusive.

We anticipate that this project will follow the construction of a surge/pressure tank. The surge/pressure tank construction has its own CIP sheet in this Capital Improvement Plan.

Strategic Plan Goal

Excellent customer service
Infrastructure strategy and performance
Financial stability

Schedule

Planning	2027
Design	2028
Construction	2029-2030
Completion	2030

Operational Implications

Because the existing reservoir appears to be leaking, this project should lead to a reduction in non-revenue water loss.
Maintenance of the new reservoir should be similar

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital											0k
Bond					7500k	7500k					15000k
Grant											0k
Total	0k	0k	0k	0k	7500k	7500k	0k	0k	0k	0k	**15000k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution					7500k	7500k					15000k
Total	0k	0k	0k	0k	7500k	7500k	0k	0k	0k	0k	**15000k**

Project Name Cottage Tank
Division Distribution

Infrastructure Category Storage
Work type Rehabilitation

Project Description
Interior, full tank and warranty inspection.
Full paint and safety improvments.

Background
The Cottage Tank is a standpipe style storage facility and is suseptible to occational decline of chlorine residual during summer months, partly due to its location within the distribution system. The tank is tentatively scheduled for painting and structural improvements in 2026. During the interim period, an analysis of the water distribution system will be conducted to determine how to maximize the water storage value of the tank and provide greater tank turnover or cycling within the system. Repairs to the concrete base slab are being conducted in 2024 by distribution staff.

Strategic Plan Goal
Financial stability
Infrastructure strategy and performance

Schedule

Full tank inspection	2025
Painting and structural repairs	2026
Safety improvements	2026
Interior inspection	2031

Operational Implications
Reduction in maintenance needs and reliability concerns with the storage system.

Project References
Water Tower Assessments Report

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	11,300	1,236,500	0	8,900	0	0	10,700	0	0	0	1,267,400
Bond											
Grant											
Total	11,300	1,236,500	0	8,900	0	0	10,700	0	0	0	**1,267,400**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	11,300	1,236,500	0	8,900	0	0	10,700	0	0	0	1,267,400
Total	11,300	1,236,500	0	8,900	0	0	10,700	0	0	0	**1,267,400**

Project Name	Ferndale Tank	**Infrastructure Category**	Storage
Division	Distribution	**Work type**	Rehabilitation

Project Description

Interior tank and warranty inspection at Ferndale tank.

Background

Water storage tanks are inspected on a 5-year rotating cycle to evaluate physical condition and identify deficiencies needing rehabilitation. The Ferndale tank was last reconditioned in 2022, including repair of minor physical deficiencies identified prior to painting. The five year inspection cycle will begin in 2028 following the post construction warranty inspection in 2023. Pressure transmitter equipment is scheduled for replacement in 2024.

Strategic Plan Goal

Financial stability

Infrastructure strategy and performance

Schedule

Pressure Transmitter	2024
Tank Inspection	2028

Operational Implications

Reduction in maintenance needs and reliability concerns with the storage system.

Project References

Water Tower Assessments Report

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	0	0	0	9,500	0	0	0	0	15,400	0	24,900
Bond											
Grant											
Total	0	0	0	9,500	0	0	0	0	15,400	0	**24,900**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	0	0	0	9,500	0	0	0	0	15,400	0	24,900
Total	0	0	0	9,500	0	0	0	0	15,400	0	**24,900**

Project Name	Highland #2 Tank	**Infrastructure Category**	Storage
Division	Distribution	**Work type**	Rehabilitation

Project Description

Interior tank and warranty inspection.
Full paint and safety improvments.

Background

Water storage tanks are inspected on a 5-year rotating cycle to evaluate physical condition and identify deficiencies needing rehabilitation. The Highland No. 2 tank was last reconditioned in 2024, including replacement of paint coating and significant structural repairs of all roof rafters and replacement of handrails, roof vent, lighting, manway and overflow components.

Strategic Plan Goal

Financial stability

Infrastructure strategy and performance

Schedule

Painting	2024
Structural Rehabilitation	2024
Warranty inspection	2026
Interior tank inspection	2031

Operational Implications

Reduction in maintenance needs and reliability concerns with the storage system.

Project References

Water Tower Assessments Report

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	0	8,200	0	0	0	0	10,700	0	0	0	18,900
Bond											
Grant											
Total	0	8,200	0	0	0	0	10,700	0	0	0	**18,900**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	0	8,200	0	0	0	0	10,700	0	0	0	18,900
Total	0	8,200	0	0	0	0	10,700	0	0	0	**18,900**

Project Name	Highland #3 Tank	**Infrastructure Category**	Storage
Division	Distribution	**Work type**	Rehabilitation

Project Description

Warranty inspection.
Full paint and safety improvments.

Background

Water storage tanks are inspected on a 5-year rotating cycle to evaluate physical condition and identify deficiencies needing rehabilitation. The Highland No. 3 tank was last reconditioned in 2003. A condition assessment in 2020 identified the eventual need to replace the paint coating and perform minor structural repairs or replacement of handrails, lighting, manway and overflow components. The interior and exterior surfaces are scheduled for painting in 2025.

Strategic Plan Goal

Financial stability

Infrastructure strategy and performance

Schedule

Painting	2025
Structural Rehabilitation	2025
Warranty inspection	2027

Operational Implications

Reduction in maintenance needs and reliability concerns with the storage system.

Project References

Water Tower Assessments Report

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	1,317,200	0	9,100		0	0	0	11,100	0	0	1,337,400
Bond											
Grant											
Total	1,317,200	0	9,100	0	0	0	0	11,100	0	0	**1,337,400**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	1,317,200	0	9,100	0	0	0	0	11,100	0	0	1,337,400
Total	1,317,200	0	9,100	0	0	0	0	11,100	0	0	**1,337,400**

Project Name McKnight Tank
Division Distribution

Infrastructure Category Storage
Work type Rehabilitation

Project Description
Full tank and warranty inspection.
Full paint and safety improvments.

Background
Water storage tanks are inspected on a 5-year rotating cycle to evaluate physical condition and identify deficiencies needing rehabilitation. The McKnight tank was last reconditioned in 2008. A condition assessment in 2020 identified the eventual need to perform minor structural repairs and replacement of roof vent, manway and overflow components. The interior and exterior surfaces are scheduled for painting in 2029.

Strategic Plan Goal
Financial stability
Infrastructure strategy and performance

Schedule

Interior tank inspection	2025
Full tank inspection	2028
Painting	2028
Structural Repairs	2028
Warranty inspection	2030

Operational Implications
Reduction in maintenance needs and reliability concerns with the storage system.

Project References
Water Tower Assessments Report

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	8,400	0	0	0	1,088,200	9,600	0	17,800	11,500	0	1,135,500
Bond											
Grant											
Total	8,400	0	0	0	1,088,200	9,600	0	17,800	11,500	0	**1,135,500**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	8,400	0	0	0	1,088,200	9,600	0	17,800	11,500	0	1,135,500
Total	8,400	0	0	0	1,088,200	9,600	0	17,800	11,500	0	**1,135,500**

Project Name Mendota Heights Tank
Division Distribution

Infrastructure Category Storage
Work type Rehabilitation

Project Description
Full tank and warranty inspection.
Full paint and safety improvments.
Pressure washing and cleaning.

Background
Water storage tanks are inspected on a 5-year rotating cycle to evaluate physical condition and identify deficiencies needing rehabilitation. The Mendota Heights tank was last reconditioned in 2011. A condition assessment in 2020 identified the eventual need to replace the paint coating and perform minor structural repairs or replacement of handrails, lighting, manway and overflow components. This tank is scheduled for interior and exterior paining and structural repairs in 2031

Strategic Plan Goal
Financial stability
Infrastructure strategy and performance

Schedule

Cleaning	2025
Interior tank inspection	2025
Full tank inspection	2030
Pressure Transmitter	2026
Painting and structural repairs	2031

Operational Implications
Reduction in maintenance needs and reliability concerns with the storage system.

Project References
Water Tower Assessments Report

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	19,700	8,200	0	0	0	13,700	1,241,800	0	10,800	0	1,294,200
Bond											
Grant											
Total	19,700	8,200	0	0	0	13,700	1,241,800	0	10,800	0	**1,294,200**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	19,700	8,200	0	0	0	13,700	1,241,800	0	10,800	0	1,294,200
Total	19,700	8,200	0	0	0	13,700	1,241,800	0	10,800	0	**1,294,200**

Project Name	St Athony Tank	**Infrastructure Category**	Storage
Division	Distribution	**Work type**	Rehabilitation

Project Description

Interior and full tank inspection.
Instrumentation and communication upgrades.

Background

Water storage tanks are inspected on a 5-year rotating cycle to evaluate physical condition and identify deficiencies needing rehabilitation. The St Anthony tank was last reconditioned in 2019, including repair of minor physical deficiencies identified prior to painting. This tank is currently not scheduled for repainting until 2040. Pressure transmitter equipment is scheduled for replacement in 2026 or before.

Strategic Plan Goal

Financial stability

Infrastructure strategy and performance

Schedule

Interior tank inspection	2025
Full tank inspection	2030
Instrument and comm upgrades	2026

Operational Implications

Reduction in maintenance needs and reliability concerns with the storage system.

Project References

Water Tower Assessments Report

NOTES

2025 and Future expenses are professional services for condition assessments. While directly contributing to extending the service life of the tank, these expenses may not qualify as capital expenditures.

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	8,400	8,200	0	0	0	13,700	0	0	0	0	30,300
Bond											
Grant											
Total	8,400	8,200	0	0	0	13,700	0	0	0	0	**30,300**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	8,400	8,200	0	0	0	13,700	0	0	0	0	30,300
Total	8,400	8,200	0	0	0	13,700	0	0	0	0	**30,300**

Project Name	State Fairgrounds Tank	**Infrastructure Category**	Storage
Division	Distribution	**Work type**	Rehabilitation

Project Description

Interior, full tank and warranty inspection.
Full paint and safety improvments.
Pressure washing and cleaning.

Background

Water storage tanks are inspected on a 5-year rotating cycle to evaluate physical condition and identify deficiencies needing rehabilitation. The State Fairgrounds tank was last reconditioned with a partial spot repair to paint coatings in 2013. A condition assessment in 2020 identified the eventual need to replace the paint coating and perform minor structural repairs or replacement of handrails, lighting, manway and overflow components. The tank is scheduled for reconditioning in 2030. Pressure transmitter equipment is also scheduled for replacement.

Strategic Plan Goal

Financial stability

Infrastructure strategy and performance

Schedule

Cleaning	2025
Interior tank inspection	2025
Full tank inspection	2028
Pressure Transmitter	2026
Interior and Exterior Painting and Structural Repairs	2030

Operational Implications

Reduction in maintenance needs and reliability concerns with the storage system.

Project References

Water Tower Assessments Report

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	19,700	8,200	0	12,700	0	1,156,700	9,900	0	0	11,500	1,218,700
Bond											
Grant											
Total	19,700	8,200	0	12,700	0	1,156,700	9,900	0	0	11,500	**1,218,700**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	19,700	8,200	0	12,700	0	1,156,700	9,900	0	0	0	1,207,200
Total	19,700	8,200	0	12,700	0	1,156,700	9,900	0	0	0	**1,207,200**

Project Name	Sterling Tank	**Infrastructure Category**	Storage
Division	Distribution	**Work type**	Rehabilitation

Project Description

Interior and full tank inspection.
Instrumentation and communication upgrades.

Background

Water storage tanks are inspected on a 5-year rotating cycle to evaluate physical condition and identify deficiencies needing rehabilitation. The Sterling tank was last reconditioned in 2019, including repair of minor physical deficiencies identified prior to painting. The five year inspection cycle will begin in 2025 based on the past warranty inspection. This tank is currently scheduled for painting in 2039 or beyond.

Strategic Plan Goal

Financial stability

Infrastructure strategy and performance

Schedule

Interior tank inspection	2025
Full tank inspection	2030
Pres Transmitter Replacement	2026

Operational Implications

Reduction in maintenance needs and reliability concerns with the storage system.

Project References

Water Tower Assessments Report

NOTES

2025 and Future expenses include professional services for condition assessments. While directly contributing to extending the service life of the tank, these expenses may not qualify as capital expenditures.

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	8,400	8,200	0	0	0	13,700	0	0	0	0	30,300
Bond											
Grant											
Total	8,400	8,200	0	0	0	13,700	0	0	0	0	**30,300**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	8,400	8,200	0	0	0	13,700	0	0	0	0	30,300
Total	8,400	8,200	0	0	0	13,700	0	0	0	0	**30,300**

Project Name	Stillwater Tank	**Infrastructure Category**	Storage
Division	Distribution	**Work type**	Rehabilitation

Project Description

Full tank and warranty inspection.
Full paint and safety improvments.

Background

Water storage tanks are inspected on a 5-year rotating cycle to evaluate physical condition and identify deficiencies needing rehabilitation. The Stillwater tank was constructed in 1958 and last reconditioned in 2011. A condition assessment in 2020 identified the eventual need to replace the paint coating and perform minor structural repairs or replacement of handrails, lighting, manway and overflow components. The interior and exterior surfaces have experienced accellerated weathering and are scheduled for painting in 2027. The proposed facility improvements are outlined in a facility inspection conducted in 2020.

Strategic Plan Goal

Financial stability

Infrastructure strategy and performance

Schedule

Full tank inspection	2026
Painting	2027
Structural Repairs	2027
Warranty inspection	2029

Operational Implications

Reduction in maintenance needs and reliability concerns with the storage system.

Project References

Water Tower Assessments Report

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	0	11,700	1,256,200	0	9,200	0	10,700	0	0	0	1,287,800
Bond											
Grant											
Total	0	11,700	1,256,200	0	9,200	0	10,700	0	0	0	**1,287,800**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	0	11,700	1,256,200	0	9,200	0	10,700	0	0	0	1,287,800
Total	0	11,700	1,256,200	0	9,200	0	10,700	0	0	0	**1,287,800**

Project Name	West St Paul Tank	**Infrastructure Category**	Storage
Division	Distribution	**Work type**	Rehabilitation

Project Description

Interior and full tank inspection.
Instrumentation and communication upgrades.

Background

Most storage facilities receive interior and full tank inspections on a reoccurring basis. Any findings from the inspections can also initiate other safety improvements at the facility as well as the need for other maintenance activates, such as pressure washing. Pressure transmitter equipment has reached the end of service life, is no longer supported by the supplier, and is scheduled for replacement.

Strategic Plan Goal

Financial stability

Infrastructure strategy and performance

Schedule

Interior tank inspection	2025
Full tank inspection	2030
Instrument and comm upgrades	2026

Operational Implications

Reduction in maintenance needs and reliability concerns with the storage system.

Project References

Water Tower Assessments Report

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	8,400	8,200	0	0	0	13,700	0	0	0	0	30,300
Bond											
Grant											
Total	8,400	8,200	0	0	0	13,700	0	0	0	0	**30,300**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	8,400	8,200	0	0	0	13,700	0	0	0	0	30,300
Total	8,400	8,200	0	0	0	13,700	0	0	0	0	**30,300**

Project Name	West Side and Hillcrest Overflow Modifications	**Infrastructure Category**	Storage
Division	Distribution	**Work type**	Rehabilitation

Project Description

Modify emergency overflows for compliance with MDH standards

Background

Recent inspection by representatives from the Minnesota Department of Health determined that the emergency overflow for both the Hillcrest and West Side Reservoirs are not compliant with current design standards. The project would include modification of the overflow structures to discharge above ground level per current code. Design is scheduled to occur in 2026, with construction spanning the late fall through spring of 2027/2028.

Strategic Plan Goal

Financial stability

Infrastructure strategy and performance

Schedule

Design	2026
Construction	2027
Construction	2028

Operational Implications

Regulatory compliance and protection of water quality.

Project References

EPA and MDH Inspections Results

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	0	75,000	250,000	250,000	0	0	0	0	0	0	575,000
Bond											
Grant											
Total	0	75,000	250,000	250,000	0	0	0	0	0	0	**575,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	0	75,000	250,000	250,000	0	0	0	0	0	0	575,000
Total	0	75,000	250,000	250,000	0	0	0	0	0	0	**575,000**

Distribution Water Mains, Hydrants, and Valves

2025 – 2034 Capital Improvement Plan

Saint Paul Regional Water Services

Project Name	Water Main Replacement	**Infrastructure Category**	Watermain
Division	Distribution	**Work type**	Replacement

Project Description

Annual budget for watermain replacement and rehabilitation.

Background

The watermain system is evaluated every fall to identify replacement needs. Replacement is based on age, break history, criticality, and roadway projects identified by cities, counties, and MnDOT. Individual candidate projects are listed on the Water Main Replacement Planning spreadsheet. The average annual capital expense needed to achieve a one percent replacement rate (100-year service life) is estimated to be approximately $21 million per year (in 2024 dollars). The proposed expenditures below are recommended to provide a steady increase in capital investment toward the $21 million target, adjusted for the anticipated construction inflation rate in future years.

Strategic Plan Goal

Financial stability

Infrastructure strategy and performance

Schedule

Planning	Q3-Q4
Design	Q4-Q1
Construction	Q2-Q3
Completion	Q3

Operational Implications

Reduction in maintenance needs and reliability concerns with watermain in the system.

Project References

Hydraulic model
Water Main Prioritization Revised Methodology
Water Main Prioritization Study
PCCP Condition & Risk Assessment
PCCP Prioritization Tech Memo

NOTES

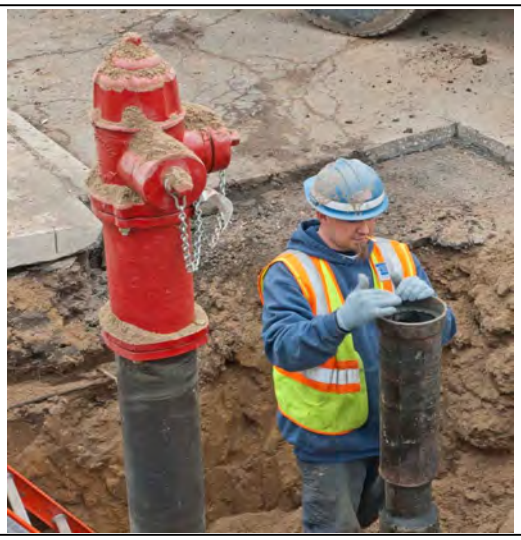
Funding amounts shown below include Capital and Surcharge funding sources.

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	13,200,000	13,690,000	14,700,000	15,700,000	16,200,000	18,770,000	20,480,000	28,830,000	29,940,000	31,074,000	202,584,000
Bond											
Grant											
Total	13,200,000	13,690,000	14,700,000	15,700,000	16,200,000	18,770,000	20,480,000	28,830,000	29,940,000	31,074,000	**202,584,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	13,200,000	13,690,000	14,700,000	15,700,000	16,200,000	18,770,000	20,480,000	28,830,000	29,940,000	31,074,000	202,584,000
Total	13,200,000	13,690,000	14,700,000	15,700,000	16,200,000	18,770,000	20,480,000	28,830,000	29,940,000	31,074,000	**202,584,000**

Project Name	Hydrant Replacements	**Infrastructure Category**	Valves and hydrants
Division	Distribution	**Work type**	Replacement

Project Description

Annual budget for hydrant replacement.



Background

The water distribution system contains 10,300 hydrants to provide fire protection for communities and allow flushing of the distribution system. The oldest in-service hydrants date back to 1883. The proposed capital expenditures below are based on the average annual costs to repair of replace hydrants that are damaged to found to be inoperable during the annual inspection of all hydrants. Hydrants included within project areas are also inspected and replaced with corresponding watermain projects.

Strategic Plan Goal

Financial stability

Infrastructure strategy and performance

Schedule

Planning	Q3-Q4
Design	Q4-Q1
Construction	Q2-Q3
Completion	Q3

Operational Implications

Reduction in maintenance needs and reliability concerns with hydrants in the system.

Project References

Hydraulic model
Water Main Prioritization Revised Methodology
Water Main Prioritization Study

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	999,000	1,024,000	1,050,000	1,050,000	1,050,000	1,076,000	1,100,000	1,100,000	1,100,000	1,167,000	10,716,000
Bond											
Grant											
Total	999,000	1,024,000	1,050,000	1,050,000	1,050,000	1,076,000	1,100,000	1,100,000	1,100,000	1,167,000	**10,716,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	999,000	1,024,000	1,050,000	1,050,000	1,050,000	1,076,000	1,100,000	1,100,000	1,100,000	1,167,000	10,716,000
Total	999,000	1,024,000	1,050,000	1,050,000	1,050,000	1,076,000	1,100,000	1,100,000	1,100,000	1,167,000	**10,716,000**

Project Name	Large Valve Replacements	**Infrastructure Category**	Valves and hydrants
Division	Distribution	**Work type**	Replacement

Project Description

Annual budget for replacement of large diameter valves.

Background

In addition to typical annual valve replacement work, SPRWS has a growing backlog of large diameter system valves, with a portion of the inventory exeeding 100 years in service. In 2025, additional caplital investment is proposed to begin a systematic process for strategic replacement large diameter valves (16-inches and larger).

Strategic Plan Goal

Financial stability

Infrastructure strategy and performance

Schedule

Planning	Q3-Q4
Design	Q4-Q1
Construction	Q2-Q3
Completion	Q3

Operational Implications

Reduction in maintenance needs and reliability concerns with valves in the system.

Project References

Hydraulic model
Water Main Prioritization Revised Methodology
Water Main Prioritization Study

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	190,000	195,000	200,000	205,000	210,000	215,000	220,000	225,000	230,000	237,000	2,127,000
Bond											
Grant											
Total	190,000	195,000	200,000	205,000	210,000	215,000	220,000	225,000	230,000	237,000	**2,127,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	190,000	195,000	200,000	205,000	210,000	215,000	220,000	225,000	230,000	237,000	2,127,000
Total	190,000	195,000	200,000	205,000	210,000	215,000	220,000	225,000	230,000	237,000	**2,127,000**

Project Name	Valve Replacements	**Infrastructure Category**	Valves and hydrants
Division	Distribution	**Work type**	Replacement

Project Description

Annual budget for valve replacement and rehabilitation.

Background

The water distribution system includes 25,000 system and control valves with original installation dating back to 1887, or up to 135+ years. Each year, the Distribution division responds to multiple valve failures ranging from leaks to operational failure. In addition, valves included within water main project areas are also inspected and replaced. The funding levels proposed below correspond to the average annual expenditures to replace failing valves within the system, adjusted for the estimated annual rate of inflation.

Strategic Plan Goal

Financial stability

Infrastructure strategy and performance

Schedule

Planning	Q3-Q4
Design	Q4-Q1
Construction	Q2-Q3
Completion	Q3

Operational Implications

Reduction in maintenance needs and reliability concerns with valves in the system.

Project References

Hydraulic model
Water Main Prioritization Revised Methodology
Water Main Prioritization Study

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	775,000	800,000	825,000	850,000	875,000	900,000	925,000	950,000	980,000	1,009,000	8,889,000
Bond											
Grant											
Total	775,000	800,000	825,000	850,000	875,000	900,000	925,000	950,000	980,000	1,009,000	**8,889,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	775,000	800,000	825,000	850,000	875,000	900,000	925,000	950,000	980,000	1,009,000	8,889,000
Total	775,000	800,000	825,000	850,000	875,000	900,000	925,000	950,000	980,000	1,009,000	**8,889,000**

Project Name	Prestressed Concrete Pipe	**Infrastructure Category**	Watermain
Division	Distribution	**Work type**	Replacement

Project Description

Annual budget for presetressed concrete pipe assesment, replacement and rehabilitation.

Background

The water distribution system includes approximately 48 miles of Prestressed Concrete Cylinder Pipe (PCCP). Water mains construction of PCCP material range is size from 16-inches to 42-inches in diameter and generally have higher probability of catestrophic failure, or large ruptures, when damaged. In 2022, SPRWS completed a high level assessment process for evaluating the condition of these important pipe segments. The expenditures below are recommended to perform a program of systematic condition evaluations of PCCP pipe segments using video, acustical, and electromagnetic technology to identify pipe deficiencies and prioritize future replacements.

Strategic Plan Goal

Financial stability

Infrastructure strategy and performance

Schedule

Planning	Q3-Q4
Design	Q4-Q1
Construction	Q2-Q3
Completion	Q3

Operational Implications

Reduction in maintenance needs and reliability concerns with watermain in the system.

Project References

Hydraulic model
Water Main Prioritization Revised Methodology
Water Main Prioritization Study
PCCP Condition & Risk Assessment
PCCP Prioritization Tech Memo

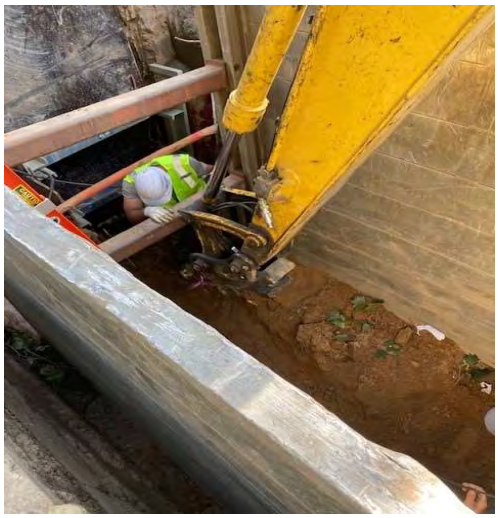
NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	135,000	140,000	145,000	150,000	155,000	160,000	165,000	170,000	175,000	180,000	1,575,000
Bond											
Grant											
Total	135,000	140,000	145,000	150,000	155,000	160,000	165,000	170,000	175,000	180,000	**1,575,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	135,000	140,000	145,000	150,000	155,000	160,000	165,000	170,000	175,000	180,000	1,575,000
Total	135,000	140,000	145,000	150,000	155,000	160,000	165,000	170,000	175,000	180,000	**1,575,000**

Project Name	New Water Service Connections	**Infrastructure Category**	Services
Division	Distribution	**Work type**	Replacement

Project Description

Annual budget for new water service connections



Background

This line item provides funding for the expenses associated in installation of new water service connections associated with land development and redevelopment activities within the SPRWS service area. Portions of this expense are offset my fees charged for new service connections.

Strategic Plan Goal

Financial stability

Infrastructure strategy and performance

Schedule

Planning	Q3-Q4
Design	Q4-Q1
Construction	Q2-Q3
Completion	Q3

Operational Implications

Reduction in maintenance needs and reliability concerns with service connections in the system.

Project References

Water Main Prioritization Revised Methodology
Water Main Prioritization Study

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	175,000	175,000	175,000	175,000	175,000	175,000	175,000	175,000	175,000	175,000	1,750,000
Bond											
Grant											
Total	175,000	175,000	175,000	175,000	175,000	175,000	175,000	175,000	175,000	175,000	**1,750,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	175,000	175,000	175,000	175,000	175,000	175,000	175,000	175,000	175,000	175,000	1,750,000
Total	175,000	175,000	175,000	175,000	175,000	175,000	175,000	175,000	175,000	175,000	**1,750,000**

Project Name	Lead Service Replacements in right of way	**Infrastructure Category**	Services
Division	Distribution	**Work type**	Replacement

Project Description

Annual budget for lead service replacements within the right of way.

Background

Lead services included within project areas are replaced with or ahead of corresponding watermain projects. Standalone lead serivce replacment projects also replace lead services in areas across the system. A vast majority of lead service replacement work is funded from ARPA and federal/state PFA sources. However, a smaller portion of projects may involve expenses that are not eligible federal funding based on eligibility criteria. This capital budget is intended to cover various ineligle expenses for the program.

Strategic Plan Goal

Financial stability

Infrastructure strategy and performance

Schedule

Planning	Q3-Q4
Design	Q4-Q1
Construction	Q2-Q3
Completion	Q3

Operational Implications

Removing lead services from the system to protect public health and reduction in maintenance needs and reliability concerns with service connections in the system.

Project References

Water Main Prioritization Revised Methodology
Water Main Prioritization Study

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	2,000,000
Bond											
Grant											
Total	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	**2,000,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	2,000,000
Total	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	**2,000,000**

Project Name	Tunnel System Improvements	**Infrastructure Category**	Watermain
Division	Distribution	**Work type**	Replacement

Project Description

Annual budget for investigation, assessment, and rehabilitation of tunnel network.

Background

Watermain in certain parts of downtown Saint Paul was installed in tunnels cut out of sandstone bedrock. Over time this sandstone will erode and access can become difficult. In order to ensure access and reliability of the watermain in these tunnels annual inspection, assessment and rehabilitation projects are required. In 2023, SPRWS conducted a condition assessment of the tunnel system and identified a list of specific projects to ensure the stability of the system. The expendutures recommended below provide costs to complete the list of tunnel improvement projects.

Strategic Plan Goal

Financial stability

Infrastructure strategy and performance

Schedule

Planning	Q3-Q4
Design	Q4-Q1
Construction	Q2-Q3
Completion	Q3

Operational Implications

Reduction in maintenance needs and reliability concerns with watermain in the system within the tunnels.

Project References

Tunnel Condition & Risk Assessment

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	489,000	0	0	383,000	686,000	624,000	592,000	633,000	676,000	0	4,083,000
Bond											
Grant											
Total	489,000	0	0	383,000	686,000	624,000	592,000	633,000	676,000	0	**4,083,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	489,000	0	0	383,000	686,000	624,000	592,000	633,000	676,000	0	4,083,000
Total	489,000	0	0	383,000	686,000	624,000	592,000	633,000	676,000	0	**4,083,000**

Project Name	Yard Piping Improvements	**Infrastructure Category**	Watermain
Division	Production	**Work type**	Replacement

Project Description

Reconstruct portions of piping directly to the west of the McCarron's pump station

Background

Piping to/from the finished water reservoir and piping to/from the high and low service pumps is growing old. The pipe network and the associated valving is growing old. This project is aimed at investigating the piping and the valving from the filter clearwells up to the point where the water moves off campus.

One suggestion presented in the 2014 master plan was to "add gates or valves so that the 78 inch finished water conduits can be isolated without taking down half of the FW reservoir." Also suggested was, "rebuild yard piping to have influent and effluent header structures that provide improved redundancy and reduce risk of failure of the old lead gasket joints."

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	2032
Design	
Construction	2033
Completion	2033

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Capital									1,200k		1,200k
Bond											0k
Grant											0k
Total	0k	0k	0k	0k	0k	0k	0k	0k	1200k	0k	**1200k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution									1200k		1200k
Total	0k	0k	0k	0k	0k	0k	0k	0k	1200k	0k	**1200k**

Technology Projects

2025 – 2034 Capital Improvement Plan

Saint Paul Regional Water Services

Project Name	CIS upgrade	**Infrastructure Category**	Technology
Division	Business	**Work type**	Expansion

Project Description

Upgrade/replace SPRWS' Customer Information System (CIS).

Background

The billing and customer information system was implemented in 2009.
An updated system will enable us to enhance efficiency, improve data security measures, and provide more personalized experiences for our customers. It will also support seamless integration with modern technologies, ensuring we remain efficient in a rapidly advancing technology environment.

Strategic Plan Goal

Infrastructure strategy and performance

Excellent customer service

Schedule

Planning	Q1 2029
Design	Q1 2030
Construction	
Completion	Q4 2030

Operational Implications

Project References

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	0	0	0	0	0	3,000,000	0	0	0	0	3,000,000
Bond											
Grant											
Total	0	0	0	0	0	3,000,000	0	0	0	0	**3,000,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	0	0	0	0	0	3,000,000	0	0	0	0	3,000,000
Total	0	0	0	0	0	3,000,000	0	0	0	0	**3,000,000**

Project Name	Cybersecurity-Virus Protection Upgrade	**Infrastructure Category**	Technology
Division	Business	**Work type**	Replacement

Project Description

Virus protection will be upgraded to an extended detection and response solution (XDR)

Background

Extended Detection and Response (XDR) is a security solution that extends the capabilities of virus protection by providing a unified view across different security domains, such as endpoints, network, cloud, and email.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	2025 Q3
Design	
Construction	
Completion	2025 Q3

Operational Implications

Plans to get on the state of MN Crowdstrike program are getting evaluated.

Project References

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	60,000	0	0	0	0	0	0	0	0	0	60,000
Bond											
Grant											
Total	60,000	0	0	0	0	0	0	0	0	0	**60,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	60,000	0	0	0	0	0	0	0	0	0	60,000
Total	60,000	0	0	0	0	0	0	0	0	0	**60,000**

Project Name	Customer Relations Management	**Infrastructure Category**	Technology
Division	Business	**Work type**	Expansion

Project Description

Purchase and implement a Customer Relations Management System.

Background

A Customer Relationship Management (CRM) system will help us streamline our customer interactions, improve service efficiency, and enhance customer satisfaction. We will be able to centralize data, automate tasks, and gain valuable insights to standarize our customer service approach accross the utility.

Strategic Plan Goal

Infrastructure strategy and performance

Excellent customer service

Schedule

Planning	Q1 2028
Design	Q2 2028
Construction	
Completion	Q4 2028

Operational Implications

It will require a review of business processes to standarize customer interactions in various areas of SPRWS: customer service, dispatch, water quality, etc. The city is using Zendesk, a possible option to fill this functionality gap.

Project References

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	0	0	0	200,000	0	0	0	0	0	0	200,000
Bond											
Grant											
Total	0	0	0	200,000	0	0	0	0	0	0	**200,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	0	0	0	200,000	0	0	0	0	0	0	200,000
Total	0	0	0	200,000	0	0	0	0	0	0	**200,000**

Project Name	Cybersecurity - SIEM	**Infrastructure Category**	Technology
Division	Business	**Work type**	Expansion

Project Description

Implementation of a Security Information ans Event Management system (SIEM)

Background

The EPA cybersecurity recommendations include the collection and storing of logs and/or network traffic data to aid in detecting cyberattacks and investigating suspicious activity. SPRWS will be joining the city of Saint Paul's system, which includes acquiring additional hardware.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	2025 Q3
Design	
Construction	
Completion	2025 Q4

Operational Implications

Collaboration with OTC, implementation timeline will be dependant on OTC's schedule.

Project References

NOTES

It will create annual maintenance//subscription expenses.

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	200,000	0	0	0	0	0	0	0	0	0	200,000
Bond											
Grant											
Total	200,000	0	0	0	0	0	0	0	0	0	**200,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	200,000	0	0	0	0	0	0	0	0	0	200,000
Total	200,000	0	0	0	0	0	0	0	0	0	**200,000**

Project Name	Digital Twin	**Infrastructure Category**	Technology
Division	Business	**Work type**	Expansion

Project Description

Implementation of a water treatment digital twin - virtual representation of SPRWS' physical water system assets that integrate data, models, and analytics to run simulations utilizing machine learning and artificial intelligence.

Background

A digital twin in water systems is a virtual model that replicates the physical water infrastructure in real-time. It enables operators to monitor, simulate, and optimize system performance, predict potential issues, and improve decision-making. By providing a dynamic and data-driven representation, digital twins enhance system efficiency, reduce maintenance costs, and support proactive water management.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	Q1 2033
Design	
Construction	
Completion	Q4 2033

Operational Implications

The Building Information Modeling system should be implememnted first.

Project References

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	0	0	0	0	0	0	0	0	250,000	0	250,000
Bond											
Grant											
Total	0	0	0	0	0	0	0	0	250,000	0	**250,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	0	0	0	0	0	0	0	0	250,000	0	250,000
Total	0	0	0	0	0	0	0	0	250,000	0	**250,000**

Project Name	EAMS Expansion	**Infrastructure Category**	Technology
Division	Business	**Work type**	Replacement

Project Description

Additional integration and customizations required for a succesful implementation of EAMS.

Background

Requirements in the EAMS RFP were not sufficiently specified for a more accurate understanfing and cost assessment of customization and integrations necessary for a succesful implementation.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	Q1 2025
Design	
Construction	
Completion	Q2 2025

Operational Implications

Area specifically affected is timekeeping. SPRWS doesn't know the functionality of the new timekeeping system the city is also implementing, which makes difficult to understand the integration/customization needs with EAMS.

Project References

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	500,000	0	0	0	0	0	0	0	0	0	500,000
Bond											
Grant											
Total	500,000	0	0	0	0	0	0	0	0	0	**500,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	500,000	0	0	0	0	0	0	0	0	0	500,000
Total	500,000	0	0	0	0	0	0	0	0	0	**500,000**

Project Name	Mobile Workforce System	**Infrastructure Category**	Technology
Division	Business	**Work type**	Expansion

Project Description

Purchase and implement a mobile work force solution to manage all field and customer faced work.

Background

SPRWS performs field and customer faced work that affects assets from various business processes and different data systems, sometimes overlapping. Scheduling and managing the work has been challenging and we are looking for a solution that can handle and distribute information among different systems efficiently.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	2026 Q2
Design	
Construction	
Completion	2026 Q3

Operational Implications

Project References

Information and Technology Roadmap (2022)

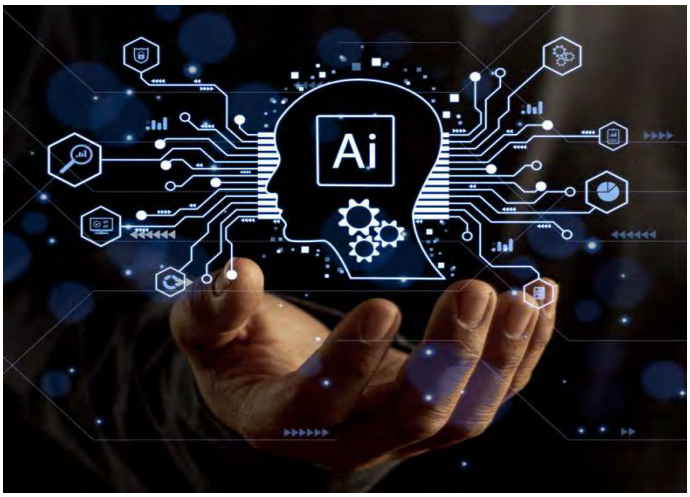
NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	0	200,000	0	0	0	0	0	0	0	0	200,000
Bond											
Grant											
Total	0	200,000	0	0	0	0	0	0	0	0	**200,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	0	200,000	0	0	0	0	0	0	0	0	200,000
Total	0	200,000	0	0	0	0	0	0	0	0	**200,000**

Project Name	AI Solutions	**Infrastructure Category**	Technology
Division	Business	**Work type**	Expansion

Project Description

Purchase AI solutions.



Background

AI tools will enhance efficiency, automate repetitive tasks, and unlock data-driven insights. By leveraging AI, we can improve decision-making, streamline processes, and reduce operational costs, allowing our team to focus on higher-value work.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	Q1 2027
Design	
Construction	
Completion	Q2 2027

Operational Implications

Work in coordination with the city.

Project References

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	0	0	200,000	0	0	0	0	0	0	0	200,000
Bond											
Grant											
Total	0	0	200,000	0	0	0	0	0	0	0	**200,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	0	0	200,000	0	0	0	0	0	0	0	200,000
Total	0	0	200,000	0	0	0	0	0	0	0	**200,000**

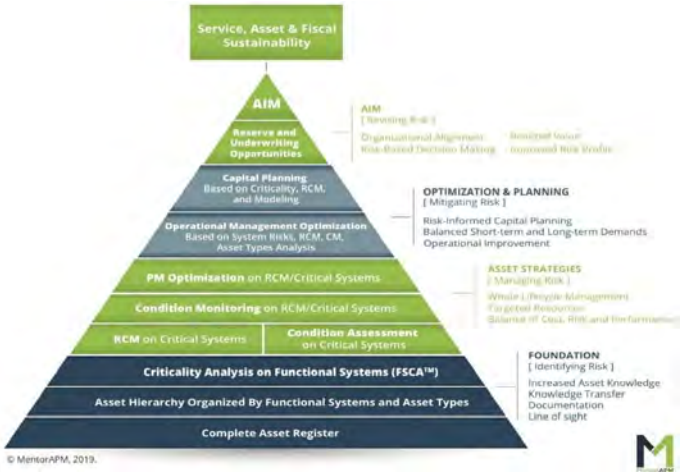
Project Name	Asset Criticality Software	**Infrastructure Category**	Technology
Division	Business	**Work type**	Expansion

Project Description

Implement a solution to facilitate the analysis of risk and criticality of SPRWS' assets to assist with risk mitigation strategies and capital planning decisions.

Background

This system helps identify the most critical assets and their optimal life cycle, assess potential risks, and prevent failures that could impact water quality and service reliability. By focusing resources on the highest-risk areas, we can improve system resilience, reduce downtime, and ensure the safe and continuous delivery of drinking water to our customers.



Strategic Plan Goal

Infrastructure strategy and performance

Schedule

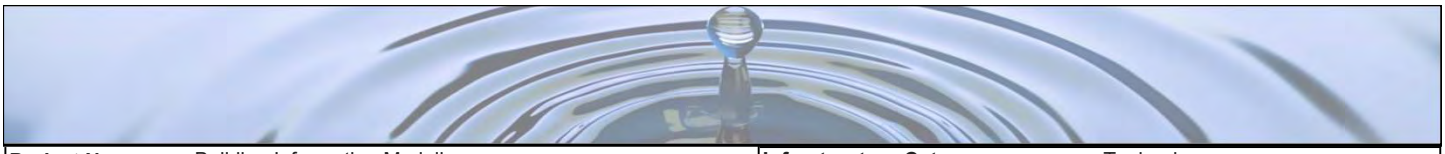
Planning	Q1 2033
Design	
Construction	
Completion	Q4 2033

Operational Implications

Project References

NOTES

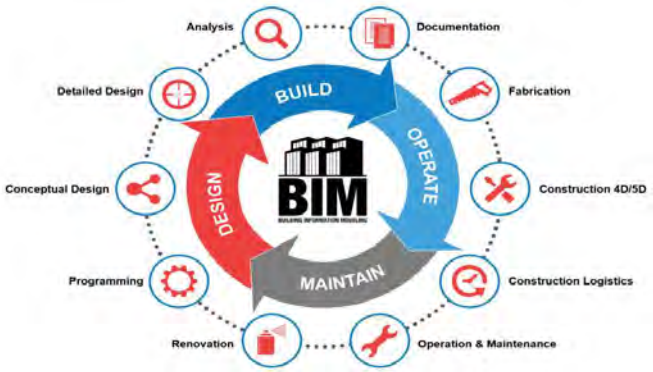
REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	0	0	0	0	0	0	0	0	150,000	0	150,000
Bond											
Grant											
Total	0	0	0	0	0	0	0	0	150,000	0	**150,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	0	0	0	0	0	0	0	0	150,000	0	150,000
Total	0	0	0	0	0	0	0	0	150,000	0	**150,000**



Project Name	Building Information Modeling	**Infrastructure Category**	Technology
Division	Business	**Work type**	Expansion

Project Description

Implementation of a Building Information Modeling (BIM) system. Standards, specifications, business processes, and technology will be designed to assure that contractors and engineers produce and deliver all documentation to which SPRWS is entitled, and to facilitate loading the appropriate spatial and attribute data into SPRWS' asset registries.



Background

BIM beneficial uses for the digital representation of facilities include streamlined asset onboarding and asset management. During the next several years while the new SPRWS plant is built, the utility should work with the plant's design engineer to assure delivery of the BIM data in the most useful format. SPRWS' potential uses of this BIM data include plant startup and commissioning, populating the EAMS asset registry, simulations and operator training, and reference for designing future plant modifications.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	Q1 2032
Design	
Construction	
Completion	Q4 2032

Operational Implications

Project References

Information and Technology Roadmap (2022)

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	0	0	0	0	0	0	0	250,000	0	0	250,000
Bond											
Grant											
Total	0	0	0	0	0	0	0	250,000	0	0	**250,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	0	0	0	0	0	0	0	250,000	0	0	250,000
Total	0	0	0	0	0	0	0	250,000	0	0	**250,000**

Project Name	Electronic Document/Content Management System	**Infrastructure Category**	Technology
Division	Business	**Work type**	Expansion

Project Description

Enhance document management functionality for handling and storing in-process and final documents and other electronic content.

Background

SPRWS uses server file folders, SharePoint and Documentum for in-process and final documents. While file folders and SharePoint are widely used for collaboration and sharing of draft and in-process documents; accessing documents in Documentum is not intuitive; staff are not clear on policies for document management and retention; . SPRWS will solicit proposals for a plan and implementation of software to govern, organize, migrate and archive in-process and final documents.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	2025 Q1
Design	2025 Q3
Construction	2025 Q5
Completion	2026 Q1

Operational Implications

Project References

Information and Technology Roadmap (2022)

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	0	300,000	0	0	0	0	0	0	0	0	300,000
Bond											
Grant											
Total	0	300,000	0	0	0	0	0	0	0	0	**300,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	0	300,000	0	0	0	0	0	0	0	0	300,000
Total	0	300,000	0	0	0	0	0	0	0	0	**300,000**

Project Name	Future IT Projects	**Infrastructure Category**	Technology
Division	Business	**Work type**	Expansion

Project Description

Unpredictable IT needs due to the technology evolving environment and cybersecurity threats.

Background

In today's rapidly evolving technology landscape, budgeting extra funds for IT projects is essential to stay ahead of innovation and protect our systems. As cybersecurity threats grow more sophisticated, increased investment is needed to strengthen our defenses, ensure data protection, and maintain system integrity. Allocating additional resources for IT projects will allow us to adapt to emerging technologies, safeguard against cyber risks, and maintain operational resilience in a constantly changing environment.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	
Design	
Construction	
Completion	

Operational Implications

Project References

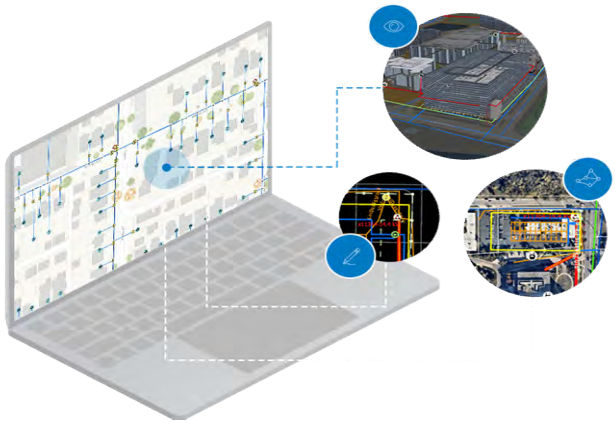
NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	0	0	0	0	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	6,000,000
Bond											
Grant											
Total	0	0	0	0	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	**6,000,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	0	0	0	0	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	6,000,000
Total	0	0	0	0	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	**6,000,000**

Project Name GIS Enhancement/Utility Network
Division Business

Infrastructure Category Technology
Work type Expansion

Project Description
Upgrade to ESRI's ArcGIS Utility Network and other functionality.



Background
While SPRWS has a mature GIS with a rich repository of data and functionality, opportunities to satisfy evolving business requirements include upgrading to Esri's ArcGIS Utility Network, spatially enabling additional enterprise applications, integrating with BI tools, and using real-time spatial data.

Strategic Plan Goal
Infrastructure strategy and performance

Schedule

Planning	2025 Q1
Design	
Construction	
Completion	2025 Q2

Operational Implications

Project References
Information and Technology Roadmap (2022)

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	0	0	0	250,000	0	0	0	0	0	0	250,000
Bond											
Grant											
Total	0	0	0	250,000	0	0	0	0	0	0	**250,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	0	0	0	250,000	0	0	0	0	0	0	250,000
Total	0	0	0	250,000	0	0	0	0	0	0	**250,000**

Project Name	Hardware Replacement	**Infrastructure Category**	Technology
Division	Business	**Work type**	Replacement

Project Description

Replace outdated, broken hardware that is run to the end of life and purchase new hardware due to growth.

Background

Assets that are run to the end of life include conference room and electronic billboard equipment. This money also used to replace servers that fail out of their replacement cycle.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	countinuosly
Design	
Construction	
Completion	

Operational Implications

Project References

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	200,000
Bond											
Grant											
Total	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	**200,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	200,000
Total	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	**200,000**

Project Name	Hydraulic Model Enhancements	**Infrastructure Category**	Technology
Division	Business	**Work type**	Expansion

Project Description

SPRWS' hydraulic modeling software is Innovyze InfoWater PRO. Future additional beneficial uses of the model include monitoring actual operating conditions in near-real
time.

Background

Monitoring system operation in near real time could provide actionable insights into the performance of the utility by tracking system performance and various key performance indicators (KPIs) Integration with SCADA data would support easier updating, calibration, and validation of the modeling output. This real time awareness of actual system performance versus predicted system performance can alert operators to system
anomalies as they occur, calling attention to potential treatment and/or operational issues, and provide improved decision support for designing, planning, maintaining, and operating the water distribution system.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	
Design	
Construction	
Completion	

Operational Implications

Work in conjunction with SCADA integration.

Project References

Information and Technology Roadmap (2022)

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	25,000	0	0	0	0	0	0	0	0	0	25,000
Bond											
Grant											
Total	25,000	0	0	0	0	0	0	0	0	0	**25,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	25,000	0	0	0	0	0	0	0	0	0	25,000
Total	25,000	0	0	0	0	0	0	0	0	0	**25,000**

Project Name	Monthly Billing - CIS	**Infrastructure Category**	Technology
Division	Business	**Work type**	Replacement

Project Description

Converting residential customers to a monthly billing schedule from quarterly billing.

Background

Switching to monthly water billing instead of quarterly will provide customers with more manageable, predictable payments, reducing the likelihood of bill shock. It will also help improve cash flow for SPRWS, allowing us to address issues more quickly and efficiently. Additionally, monthly billing encourages water conservation by providing more immediate feedback on usage, helping both customers and the environment.

Strategic Plan Goal

Infrastructure strategy and performance

Excellent customer service

Schedule

Planning	Q1 2028
Design	
Construction	
Completion	Q4 2028

Operational Implications

Significant effort to configure our Customer Information System to collect and process meter readings on a monthly basis. The cost of printing bills and the capacity of our printing vendor should also be considered. This effort should be complemented with an ebilling campaing.

Project References

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	0	0	0	1,000,000	0	0	0	0	0	0	1,000,000
Bond											
Grant											
Total	0	0	0	1,000,000	0	0	0	0	0	0	**1,000,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	0	0	0	1,000,000	0	0	0	0	0	0	1,000,000
Total	0	0	0	1,000,000	0	0	0	0	0	0	**1,000,000**

Project Name	Server Replacement	**Infrastructure Category**	Technology
Division	Business	**Work type**	Replacement

Project Description

SPRWS server replacement annual plan.

Background

SPRWS servers have a life expectancy of 4 years in the production environment and 4 years in the disaster recovery site.

The replacement plan includes their rotation from the production environment to the disaster recovery site. This process allows us to maximize their life cycle and distribute costs over several years.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	2024 Q3
Design	
Construction	
Completion	2026 Q3

Operational Implications

This project was submitted for the 2024 budget, but it wasn''t included in the final budget.
Disrupting the rotational cycle might result in system failures and will create the need for larger amounts in 2025 and beyond.

The cycle will restart in 2028, three years in a row.

Project References

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	30,000	31,500		33,075	34,729	36,465	38,288	40,203	42,213	44,324	330,797
Bond											
Grant											
Total	30,000	31,500	0	33,075	34,729	36,465	38,288	40,203	42,213	44,324	**330,797**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	30,000	31,500	0	33,075	34,729	36,465	38,288	40,203	42,213	44,324	330,797
Total	30,000	31,500	0	33,075	34,729	36,465	38,288	40,203	42,213	44,324	**330,797**

Project Name	Server Switches Replacement	**Infrastructure Category**	Technology
Division	Business	**Work type**	Replacement

Project Description

SPRWS server switches replacement.

Background

Switches have reached their life expectancy.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	2025 Q3
Design	
Construction	
Completion	2025 Q3

Operational Implications

Project References

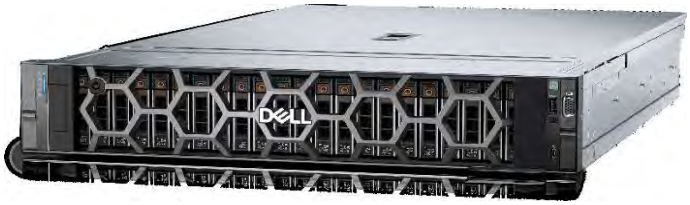
NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	20,000	0	0	0	0	0	0	0	0	0	20,000
Bond											
Grant											
Total	20,000	0	0	0	0	0	0	0	0	0	**20,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	20,000	0	0	0	0	0	0	0	0	0	20,000
Total	20,000	0	0	0	0	0	0	0	0	0	**20,000**

Project Name	VDI Host Replacement	**Infrastructure Category**	Technology
Division	Business	**Work type**	Replacement

Project Description

Replacement of two hosts in our production VDI.



Background

VDI hosts are replaced for lifecycle management, they will be rotated to the disaster recovery site for 4 more years.

7 VDI hosts replaced 2/year and 1 the first year (starting in 2023).

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	2024 Q3
Design	
Construction	
Completion	Cycle continues

Operational Implications

This project was submitted for the 2024 budget, but it wasn''t included in the final budget.
Disrupting the rotational cycle might result in system failures and will create the need for larger amounts in 2025 and beyond.

Cycle will restart in 2027, four years in a row.

Project References

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	55,000	57,750	25,000	60,638	63,669	66,853	70,195	73,705	77,391	81,260	631,461
Bond											
Grant											
Total	55,000	57,750	25,000	60,638	63,669	66,853	70,195	73,705	77,391	81,260	**631,461**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	55,000	57,750	25,000	60,638	63,669	66,853	70,195	73,705	77,391	81,260	631,461
Total	55,000	57,750	25,000	60,638	63,669	66,853	70,195	73,705	77,391	81,260	**631,461**

Project Name	Budget Reserve - Software Purchases/Upgrades for Production	**Infrastructure Category**	Technology
Division	Production	**Work type**	Expansion

Project Description

Hold funds for system upgrades as needed

Background

The production division utilizes a number of software systems that are specific to the production division alone. Examples include the Lab's LIMS system, HVAC operations systems, generator software, SPLUNK for cybersecurity, SCADA, etc.

The production division team assumes that it is our responsibility to budget for upgrades in these softwares (or software replacements). These funds are reserved under the assumption that software replacements will be necessary.

In the event that software replacements are not necessary in this year, funds will be rolled forward until they are needed.

Strategic Plan Goal

High performing workforce

Schedule

Planning	
Design	
Construction	
Completion	

Operational Implications

Reduction in maintenance needs and reliability concerns with the pump station network.

Project References

NOTES

Need to discuss with IS to determine if this should be in our budget or in theirs.

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital		95k									95k
Bond											0k
Grant											0k
Total	0k	95k	0k	0k	0k	0k	0k	0k	0k	0k	**95k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution		95k									95k
Total	0k	95k	0k	0k	0k	0k	0k	0k	0k	0k	**95k**

Water Meters and Registers

2025 – 2034 Capital Improvement Plan

Saint Paul Regional Water Services

Project Name	Fixed Meter Network AMI Collectors	**Infrastructure Category**	Meters
Division	Business	**Work type**	Expansion

Project Description

Installation of Advance Meter Infrastructure

Communication upgrades enabling future advance metering infrastructure.

Background

Advanced Metering Infrastructure (AMI) collection devices are essential components of modern utility systems, enabling the gathering of real-time data from smart meters. These devices facilitate the efficient monitoring and management of water usage by enhancing customer engagement through detailed usage insights in addition to offerings such as leak detection, water resource management and billing improvements .

Strategic Plan Goal

Excellent customer service

Financial stability

Schedule

Planning	Q2 2023 - Q3-2023
Design	Q2 2023 - Q4-2023
Construction	Q4 2023 - Q4-2027
Completion	Q4-2027

Operational Implications

Minimal Operational Impact. Units are self sufficient and require little maintenance. Installation cost is approximately $25,000 for each unit. We have successfully secured grant funds to pilot this project in an equity lens for conservation. Will continue to maximize grant funding for this improvement.

Project References

AMI Prop Study

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	150,000	150,000	150,000	0	0	0	0	0	0	0	450,000
Bond											
Grant											
Total	150,000	150,000	150,000	0	0	0	0	0	0	0	**450,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	150,000	150,000	150,000	0	0	0	0	0	0	0	
Total	150,000	150,000	150,000	0	0	0	0	0	0	0	**450,000**

Project Name	Meter Replacement	**Infrastructure Category**	Meters
Division	Business	**Work type**	Replacement

Project Description

Annual installation and replacement of water meters.

Background

Functional and accurate water meters is essential for SPRWS financial stability. SPRWS installs and replaces water meters in the Distribution system to ensure reading accuracy and performance is within the AWWA recommendation to ensure consumption is accruate.

Strategic Plan Goal

Financial stability

Excellent customer service

Schedule

Planning	Ongoing
Design	Ongoing
Construction	Ongoing
Completion	Ongoing

Operational Implications

New meter installations are recovered through permit fees related with new construction. Replacements are budgeted based on replacement needs.

Meter Installations and replacements are required in order to document customer consumption and produce accurate water bills.

Project References

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	308,000	316,000	323,900	333,617	343,626	353,934	364,552	375,489	386,754	398,356	3,504,228
Bond											
Grant											
Total	308,000	316,000	323,900	333,617	343,626	353,934	364,552	375,489	386,754	398,356	**3,504,228**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	308,000	316,000	323,900	333,617	343,626	353,934	364,552	375,489	386,754	398,356	3,504,228
Total	308,000	316,000	323,900	333,617	343,626	353,934	364,552	375,489	386,754	398,356	**3,504,228**

Project Name	Register Replacement	**Infrastructure Category**	Meters
Division	Business	**Work type**	Expansion

Project Description

Replacement of all residental registers.

Communication upgrades enabling future advance metering infrastructure.

Background

SPRWS water meter registers have reached the end of their lifespans. Replacing the register allow SPRWS to accurately determine use and bill appropriately. In addition, the upgraded water meter register will improve the ability to collect frequent and accurate water usage data to improve billing, leak detection, and water resource management.

Strategic Plan Goal

Excellent customer service

Financial stability

Schedule

Planning	Q2 2023 - Q3-2023
Design	Q2 2023 - Q4-2023
Construction	Q4 2023 - Q4-2030
Completion	Q4-2030

Operational Implications

The capital cost be offset in reocvery of funds that would be lost in the next 10 years due to meter reading failures.
Project will increase the lifespan of the register for 20 years.
Additional FTE's or Contracted Services will be required.

Project References

AMI Feasibility Study

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	2,800,000	2,940,000	3,087,000	3,241,000	3,403,000	3,574,000	150,000	150,000	150,000	150,000	19,645,000
Bond											
Grant											
Total	2,800,000	2,940,000	3,087,000	3,241,000	3,403,000	3,574,000	150,000	150,000	150,000	150,000	**19,645,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	2,800,000	2,940,000	3,087,000	3,241,000	3,403,000	3,574,000	150,000	150,000	150,000	150,000	19,645,000
Total	2,800,000	2,940,000	3,087,000	3,241,000	3,403,000	3,574,000	150,000	150,000	150,000	150,000	**19,645,000**

Building and Facility Projects

2025 – 2034 Capital Improvement Plan

Saint Paul Regional Water Services

Project Name	Building Updates	**Infrastructure Category**	Building and grounds
Division	Administration	**Work type**	Rehabilitation

Project Description

Remodel Engineering Division space to accommodate more staff, group work areas together, and secure the Engineering Service Desk. Includes new lighting, new carpet, glass partitions and walls, new offices, and focus rooms.

Background

•Second floor is running out of space for Engineering Services
•Second floor entry and counter are too big, so desire downsizing to capture more office space
•Security is a concern on both first and second floors when dealing with customers
•Hoteling/flex area for intern staff is not utilized so needs reconfiguration
•Archive room could be made smaller by storage off-site
•Distribution Division is also in need of more space
•SPRWS Leadership and Management require properly sized and located offices

Strategic Plan Goal

High performing workforce

Schedule

Planning	2023
Design	2024
Construction	Oct-24
Completion	Nov-24

Tentative: Phase 2 (Admin area and north side offices) in 2025. Archive room in 2025.

Operational Implications

Project References

NOTES

Background continued: *•Business Division Manager office location is not ideal, move to exterior wall*
•Lighting upgrades desired as renovations occur for maintenance and energy efficiency
•Creatively rearranging spaces, in a phased approach, to find more space
•Create a space so the Administration Team can be grouped together

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	150,000	150,000	150,000	150,000	50,000	50,000	50,000	50,000	50,000	0	850,000
Bond											
Grant											
Total	150,000	150,000	150,000	150,000	50,000	50,000	50,000	50,000	50,000	0	**850,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	0	0	0	0	0	0	0	0	0	0	850,000
Total	0	0	0	0	0	0	0	0	0	0	**850,000**

Project Name	Sump Pump Improvements (Pump Room Sub-Floor)	**Infrastructure Category**	Building and grounds
Division	Production	**Work type**	Replacement

Project Description

Install a redundant sump pump in this area or replace the existing sump pump

Background

The area beneath the pump room floor is subject to leakage from groundwater and from large diameter piping in the area. The sump pump in this area has a history of malfunction, and our night-shift operators have often had to rig up temporary trash pumps to keep the area from flooding.

The status quo involves several risks: 1. operators have to be away from their SCADA monitors to rig up trash pumps, 2. flooding of the area could damage important equipment, and 3. the operators risk a fall into a confined space that is filling with water.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	Q4 2024
Design	Q1 2025
Construction	Q2 and Q3 2025
Completion	Q3 2025

Operational Implications

No meaningful impacts to operating expenses are expected to result from this project.

The project does reduce our risk profile.

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	15k										15k
Bond											0k
Grant											0k
Total	15k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**15k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	15k										15k
Total	15k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**15k**

Project Name	Sump Pump System Replacement - Dewatering Building	**Infrastructure Category**	Building and grounds
Division	Production	**Work type**	Replacement

Project Description

Replace the existing sump system in the basement of the dewatering building.

Background

The lower level of the dewatering building (where sludge pumps sit) is far below grade and deals with groundwater. The sump pump system in the building is old - circa 1970s. This sump system protects major assets, including three sludge pumps and their accompanying motors.

In order to protect our investments in the sludge pumps and motors, replacement of the old sump infrastructure is desirable. This will reduce our risk exposure in the area.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	Q4 2024
Design	Q1 2025
Construction	Q2 and Q3 2025
Completion	Q3 2025

Operational Implications

No meaningful impacts to operating expenses are expected to result from this project.

The project does reduce our risk profile.

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	15k										15k
Bond											0k
Grant											0k
Total	15k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**15k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	15k										15k
Total	15k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**15k**

Project Name	Thickener Building Sump Pump Replacement	**Infrastructure Category**	Building and grounds
Division	Production	**Work type**	Replacement

Project Description

Replace the existing sump system in the basement of the Thickener building.

Background

The lower level of the thickener building (where sludge pumps sit) is far below grade and deals with groundwater. The groundwater in this area is a persistent problem, and sand and grit has begun to seep through the wall. The sump pump system in the building is old. This sump system protects major assets, including several sludge pumps and their accompanying motors.

In order to protect our investments in the sludge pumps and motors, replacement of the old sump infrastructure is desirable. This will reduce our risk exposure in the area.

Note: there is an accompanying 2025 O&M project aimed at fixing leaks in the thickener building.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	Q4 2024
Design	Q1 2025
Construction	Q2 and Q3 2025
Completion	Q3 2025

Operational Implications

No meaningful impacts to operating expenses are expected to result from this project.

The project does reduce our risk profile.

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	15k										15k
Bond											0k
Grant											0k
Total	15k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**15k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	15k										15k
Total	15k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**15k**

Project Name	Campus Repaving	**Infrastructure Category**	Building and grounds
Division	Production	**Work type**	Rehabilitation

Project Description

Repave portions of the McCarron's campus to the east of Sylvan Street to maintain parking surfaces in good condition.

Background

Paved areas on the McCarron's Campus are subject to heavy traffic and heavy equipment on a daily basis. Additionally, during winter months, these areas are plowed regularly to maintain access. Having space available to park vehicles is important to our operations, and having that space be in good shape is important for getting crews out into the field efficiently.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	2029
Design	2030
Construction	2030
Completion	2030

Operational Implications

Minimal impacts expected

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital						220k					220k
Bond											0k
Grant											0k
Total	0k	0k	0k	0k	0k	220k	0k	0k	0k	0k	**220k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution						220k					220k
Total	0k	0k	0k	0k	0k	220k	0k	0k	0k	0k	**220k**

Project Name	Roof Replacement	**Infrastructure Category**	Building and grounds
Division	Production	**Work type**	Replacement

Project Description

Replace roofing on either the chlorine and ammonia building, the filter gallery/pump floor, or the central chemical building area.

Background

The McCarron's Campus has a tremendous amount of square footage of roofing. Some of the roofs are presently leaking, and leaks are currently addressed with spot fixes. That said, a more permanent solution will be needed in the long term. This project anticipates the replacement of roofing on either the chlorine and ammonia building, the filter gallery/pump floor, or the central chemical building area.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	2029
Design	2030
Construction	2030-2031
Completion	2031

Operational Implications

Reduction in the need for repair work and for reactive maintenance that results from leaks

Project References

Roofing assessments are performed periodically. The chlorine/ammonia building had roof repairs performed in the summer of 2024 under the direction of Tom Blanchard.

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital						800k	500k				1,300k
Bond											0k
Grant											0k
Total	0k	0k	0k	0k	0k	800k	500k	0k	0k	0k	**1300k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution						800k	500k				1300k
Total	0k	0k	0k	0k	0k	800k	500k	0k	0k	0k	**1300k**

Project Name	Groundskeeping Storage Facilities (McCarron's Campus)	**Infrastructure Category**	Building and grounds
Division	Production	**Work type**	Expansion

Project Description

Construction of storage facilities on campus to allow for storage of lawn mowers, groundskeeping equipment, etc. Currently, this equipment is being trailered to site which is an inefficient use of staff time and of resources.

Background

The Vadnais team maintains the grounds of the 1900 Rice Street Campus. Prior to the start of the McCarron's WTP project, the Vadnais team stored grounds maintenance equipment on site in old, rundown storage buildings and trailers. In order to make space for the construction of the new water treatment plant, these buildings and trailers were demolished. For the duration of the construction project, the Vadnais crews will be storing grounds maintenance equipment at the Vadnais Campus and hauling it to the McCarron's campus. This is an inefficient use of staff time and materials, and new storage on campus should be constructed as soon as space becomes available.

Strategic Plan Goal

High performing workforce

Infrastructure strategy and performance

Schedule

Planning	2029
Design	2029
Construction	2030
Completion	2030

Operational Implications

This improvement will yield a decrease in operations and maintenance costs. Staff members will spend less time hauling equipment between campuses. Further, vehicles and trailers will be freed up for other purposes to be used more efficiently where needed.

Project References

NOTES

SPRWS investigated potential construction of a warehouse facility to support the McCarron's WTP project that could later serve as a storage facility for the Vadnais team. The location and timeline could not be manipulated to reach a solution. The total cost of the warehouse at that time was estimated at $300k for a 60ftx40ft building.

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital						330k					330k
Bond											0k
Grant											0k
Total	0k	0k	0k	0k	0k	330k	0k	0k	0k	0k	**330k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution						330k					330k
Total	0k	0k	0k	0k	0k	330k	0k	0k	0k	0k	**330k**

Project Name	Fire Alarm System Upgrades	**Infrastructure Category**	Building and grounds
Division	Production	**Work type**	Rehabilitation

Project Description

Thoroughly investigate fire alarm system performance and potential improvements to the system.

Replace infrastructure as needed to improve the reliability and the performance of the system.

Background

According to staff, the existing fire alarm system is getting old. Bugs in the system lead to frequent alarms for pumping operators. Further, bugs in the system sometimes alert the local fire department and they deploy to the site. These issues should be investigated, and this item anticipates replacement of fire alarm system components.

Strategic Plan Goal

Schedule

Planning	2030
Design	2030
Construction	2031
Completion	2031

Operational Implications

No significant maintenance impacts expected.

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital							180k				180k
Bond											0k
Grant											0k
Total	0k	0k	0k	0k	0k	0k	180k	0k	0k	0k	**180k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution							180k				180k
Total	0k	0k	0k	0k	0k	0k	180k	0k	0k	0k	**180k**

Project Name	Building Upgrades 2034	**Infrastructure Category**	Building and grounds
Division	Production	**Work type**	Rehabilitation

Project Description

Project scope is not yet defined and will be further developed in the coming years

Background

Project scope is not yet defined and will be further developed in the coming years

Strategic Plan Goal

Schedule

Planning	2031-2032
Design	2033
Construction	2034
Completion	2034

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Capital										400k	400k
Bond											0k
Grant											0k
Total	0k	0k	0k	0k	0k	0k	0k	0k	0k	400k	**400k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	15k									400k	415k
Total	15k	0k	0k	0k	0k	0k	0k	0k	0k	400k	**415k**

Project Name	Replace Sewage Ejector Pump or Reroute Sewer Lines	**Infrastructure Category**	Building and grounds
Division	Production	**Work type**	Replacement

Project Description

Replace the sewage ejector system that serves the Pump Operator bathroom and the Skylab. Or reroute sewer lines such that the ejector system can be abandoned and sewage can flow by gravity alone.

Background

The Pumping Operator bathroom and the Skylab depend on a sewage ejector pump that has been in service since the 1960s. It is a maintenance burden at this point and merits replacement.

This pump is a legacy design feature from a time when there was a bathroom at lower elevation in the pumping area. These days, there is sufficient head pressure available to route the sewer lines directly to sanitary by gravity without the need for an ejector pump.

If possible, rerouting the drain lines to flow by gravity is preferable since it will create a (virtually) maintenance free arrangement for the future. The cost/benefit of this option should be compared with the cost of just replacing the pump when considering this project.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	2024
Design	
Construction	2025
Completion	2025

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	10k										10k
Bond											0k
Grant											0k
Total	10k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**10k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	10k										10k
Total	10k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**10k**

Project Name	Conversion of Existing Lab Space into Storage/Warehouse Space	**Infrastructure Category**	Building and grounds
Division	Production	**Work type**	Rehabilitation

Project Description

Convert the Existing Lab Space into Storage/Warehouse Space

Background

The McCarron's WTP Improvements project will involve the construction of a new lab facility. As such, the existing lab area will be obsolete. The area is very dated but is structurally sound.

SPRWS maintenance teams manage storage in a variety of areas of the Water Treatment Plant, and a centralized storage location would be helpful for spare parts. These funds are held in anticipation of converting the old lab into a storage space for spare parts, excess equipment, and other items. The lab space could be ideal since it already includes badged access and spaces for locking doors. This would allow us to keep parts secure in storage and to limit access to areas, which is something that is currently lacking in the existing scattered storage arrangement.

Strategic Plan Goal

Schedule

Planning	2025
Design	2025
Construction	2026
Completion	2026

Operational Implications

Project References

NOTES

The lime building is also slated to be a vast, open facility at the end of the McCarron's WTP project and can be considered for storage needs. Both production and distribution have expressed an interest in the space. For purposes of this capital plan, it is assumed that distribution will budget for making that space usable for storage purposes since they appear to have a more pressing need. That said, final determination of how storage on the campus will be handled should be reached via a holistic discussion of all the utility's needs.

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital		60k									60k
Bond											0k
Grant											0k
Total	0k	60k	0k	0k	0k	0k	0k	0k	0k	0k	**60k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution		60k									60k
Total	0k	60k	0k	0k	0k	0k	0k	0k	0k	0k	**60k**

Project Name	Railroad Spur Improvements	**Infrastructure Category**	Building and grounds
Division	Production	**Work type**	Rehabilitation

Project Description

Some of the ties on the railroad track that serves the chlorine railcars are becoming rotten. This project anticipates the replacement of these ties.

Background

Some of the ties on the railroad track that serves the chlorine railcars are becoming rotten. This project anticipates the replacement of these ties.

Strategic Plan Goal

Schedule

Planning	2026
Design	
Construction	2027
Completion	2027

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital			8k								8k
Bond											0k
Grant											0k
Total	0k	0k	8k	0k	0k	0k	0k	0k	0k	0k	**8k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution			8k								8k
Total	0k	0k	8k	0k	0k	0k	0k	0k	0k	0k	**8k**

Safety and Security Projects

2025 – 2034 Capital Improvement Plan

Saint Paul Regional Water Services

Project Name	Cameras	**Infrastructure Category**	Building and grounds
Division	Administration	**Work type**	Expansion

Project Description

Installation of cameras at Hillcrest and West St. Paul Reservoirs

Background

Project background: Visibility of activity each reservoir occurs during periodic visits or after an incident has occurred. Cameras will allow us to see activity with near term capability.
What is being proposed? At least one camera at each location.
What work has already been done to date? NoneProject background: Visibility of activity each reservoir occurs during periodic visits or after an incident has occurred. Cameras will allow us to see activity with near term capability.
What is being proposed? At least one camera at each location.
What work has already been done to date? None

Strategic Plan Goal

Quality water

How is this work consistent with organizational goals and community needs? *Goal 7 Quality Water. Objective 7.2 Employ best practices and continuous improvement processes to provide efficient, uninterrupted delivery of services and Objective 7.3 Prepare for the Unexpected.*

Schedule

Planning	Q4 2024 - Q4-2024
Design	Q4 2024 - Q4-2024
Construction	Q1 2025 - Q1-2025
Completion	Q2-2025

What is the scope and benefit of this work to our customers? Improved

Improved security at our off-site distribution sites means safer water

NOTES

Project References

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	50,000	0	0	0	0	0	0	0	0	0	50,000
Bond											
Grant											
Total	50,000	0	0	0	0	0	0	0	0	0	**50,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	0	0	0	0	0	0	0	0	0	0	50,000
Total	0	0	0	0	0	0	0	0	0	0	**50,000**

Project Name	Audible alarm system upgrade
Division	Administration
Infrastructure Category	Building and grounds
Work type	Expansion

Project Description

Audible alarm/siren system to warn residential neighborhood of hazardous chemical release at 1900 Rice Street

Background

SPRWS does not have an audible alarm/siren system to warn the residential community of hazardous chemical release. Exterior Alarms that SPRWS has can be heard on campus but not off-campus.

Strategic Plan Goal

Stakeholder understanding and support

What work has already been done to date? None **How does this asset support the system and our customers?** This increases our stakeholder standing and support. **How is this work consistent with organizational**

Operational Implications

Will this capital cost be offset (in part or in whole) by operational savings that

Schedule

Planning	4th Qtr 2026
Design	4th Qtr 2026
Construction	1st Qtr-2027
Completion	2nd Qtr 2027

NOTES

Project References

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	0	100,000	0	0	0	0	0	0	0	0	100,000
Bond											
Grant											
Total	0	100,000	0	0	0	0	0	0	0	0	**100,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	0	0	0	0	0	0	0	0	0	0	100,000
Total	0	0	0	0	0	0	0	0	0	0	**100,000**

Project Name	Gate #2 Rehabilitation	**Infrastructure Category**	Building and grounds
Division	Administration	**Work type**	Rehabilitation

Project Description

Removal of Guard Shack,decrease of distance between the bottom of gate and roadway, improve barbed wire stranding on turnstile, installation of bollards or protective measures for lighting and cameras

Background

An assessment of Gate 2 was made in September 2022 and an update to this entrance is needed to improve security, protect SCADA and camera infrastructure, and remove delapidated guard shack. The entrance is easily accessible by crawling underneath the gate or climbing over the turnstile with very loose barb wire.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	Q4 2026 - Q4-2026
Design	Q4 2026 - Q4-2026
Construction	Q1 2027_ - Q1-2027
Completion	Q1 2027_ - Q1-2027

Operational Implications

Will this capital cost be offset (in part or in whole) by operational savings that result from the investment? No
Will there be significant increases/decreases in maintenance requirements as a result of the investment? Neglibile
Additional staff/supplies/resources required? No

Project References

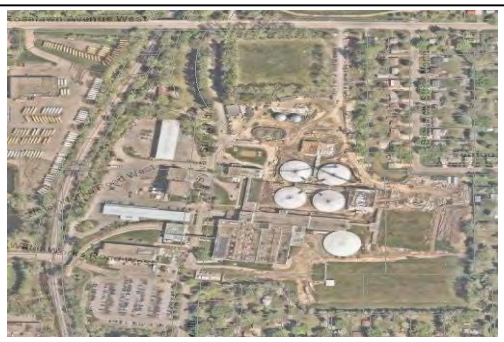
NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	0	0	25,000	0	0	0	0	0	0	0	25,000
Bond											
Grant											
Total	0	0	25,000	0	0	0	0	0	0	0	**25,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	0	0	0	0	0	0	0	0	0	0	25,000
Total	0	0	0	0	0	0	0	0	0	0	**25,000**

Project Name	Plant perimeter security enhancements	**Infrastructure Category**	Building and grounds
Division	Administration	**Work type**	Expansion

Project Description

Install outriggers on perimter fence, establish a "clear zone along the perimeter, adding of one-way security film to windows on front of the Administration Building ground floor.



Background

In summary the perimeter fence is not topped with outriggers, which makes it more scalable. The fence lacks a clear zone. A perimeter without a clear zone may aid intruders in gaining undetected access to a facility by providing areas for cover and concealment. There are portions of the perimeter fence not topped with outriggers, which makes it more scalable. Customer service individuals and various equipment can easily be seen through the outside windows.

Strategic Plan Goal

Infrastructure strategy and performance

What work has already been done to date? *None* ***How does this asset support the system and our customers?*** *This increases the resiliency of the utility from threats and hazards.* ***How is this work consistent with organizational goals and community needs*** *? Goal 2 High Performing Workforce. Objective 2.4 Assure safety and security of employees.* ***What is the scope and benefit of this work to our customers?*** *Protection of the infrastructure that allows for safe drinking water.*

Schedule

Planning	4th Qtr 2026
Design	4th Qtr 2026
Construction	1st Qtr-2027
Completion	2nd Qtr 2027

Operational Implications

Will this capital cost be offset (in part or in whole) by operational savings that result from the investment? No
Will there be significant increases/decreases in maintenance requirements as a result of the investment? Yes- maintaining the clear cut
Additional staff/supplies/resources required? No

Notes

Project References

CISA INFRASTRUCTURE SURVEY
SECURITY & RESILIENCE REPORT dated 1 April 2024

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	0	0	50,000	0	0	0	0	0	0	0	50,000
Bond											
Grant											
Total	0	0	50,000	0	0	0	0	0	0	0	**50,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	0	0	0	0	0	0	0	0	0	0	50,000
Total	0	0	0	0	0	0	0	0	0	0	**50,000**

Project Name	Deep Trekker Revolution with Caviblaster attachment	**Infrastructure Category**	Building and grounds
Division	Administration	**Work type**	Expansion

Project Description

Purchase of Deep Trekker to clean sediment and sludge from Terminal Chambers and the bottoms of reservoirs and tanks. The VAC MAX (shown in picture) is an easy, safe and more cost effective alternative to draining assets or utilizing divers for cleaning covering more ground and moving twice as fast to tackle the biggest of jobs.

Background

OSHA Consultation found on 10/4/23 that under the permit-required confined space program required by 29 CFR 1910.146(c)(4), SPRWS did not develop and implement the means, procedures, and practices necessary for safe permit space entry operations, including isolating the permit space or the terminal chambers at Vadnais Gate House.

Employees have entered a pit in the large gate house to perform cleaning and maintenance activities. The employer has not ensured the space is adequately isolated prior to employee entry

Strategic Plan Goal

Quality water

What work has already been done to date *? None*

How does this asset support the system and our customers? *This protects employees from potentially hazardous work conditions.*

How is this work consistent with organizational goals and community needs? Goal 2 High Performing Workforce. Objective 2.4 Assure safety and security of employees.

What is the scope and benefit of this work to our customers? Potential time-savings in efforts to secure and cut pipe while maintaining employee safety.

Operational Implications

Schedule

Planning	
Design	
Construction	
Completion	

Project References

https://www.deeptrekker.com/shop/products/dt640-max

Will this capital cost be offset (in part or in whole) by operational savings that result from the investment? Possible
Will there be significant increases/decreases in maintenance requirements as a result of the investment? Neglibile
Additional staff/supplies/resources required? No

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	0	0	100,000	0	0	0	0	0	0	0	100,000
Bond											
Grant											
Total	0	0	100,000	0	0	0	0	0	0	0	**100,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	0	0	0	0	0	0	0	0	0	0	100,000
Total	0	0	0	0	0	0	0	0	0	0	**100,000**

Project Name	Lighting in Sludgefield	**Infrastructure Category**	Building and grounds
Division	Administration	**Work type**	Expansion

Project Description

Installation of timer lighting in Pipeyard to allow employees to safely make cuts to pipe to size during periods of darkness.

Background

Project background: Distribution personnel currently use vehicle headlights as their only source of lights after hours. This is extremely unsafe when operating power tools.

What is being proposed? *Pole-mounted lighting that is on a timer that provides enough light to operate equipment in darkness. Lighting will need to shoot downward and may involve multiple poles/lights to cover pipeyard. Lights will operate independently of each other to minimize disruption to neighbors.*

What work has already been done to date *? None*

How does this asset support the system and our customers? *This protects employees from potentially hazardous work conditions.*

Strategic Plan Goal

Quality water

How is this work consistent with organizational goals and community needs? Goal 2 High Performing Workforce. Objective 2.4 Assure safety and security of employees.

What is the scope and benefit of this work to our customers? Potential time-savings in efforts to secure and cut pipe while maintaining employee safety.

Schedule

Planning	Q4 2024 - Q4-2024
Design	Q4 2024 - Q4-2024_
Construction	Q1 2025_ - Q1-2025
Completion	Q2-2025

Operational Implications

Will this capital cost be offset (in part or in whole) by operational savings that result from the investment? No

Will there be significant increases/decreases in maintenance requirements as a result of the investment? Neglibile

Additional staff/supplies/resources required? No

Project References

Condition assessment report: N/A

Feasibility report: N/A

Cost estimates: $20,000.

	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	20,000	0	0	0	0	0	0	0	0	0	20,000
Bond											
Grant											
Total	20,000	0	0	0	0	0	0	0	0	0	**20,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	0	0	0	0	0	0	0	0	0	0	20,000
Total	0	0	0	0	0	0	0	0	0	0	**20,000**

Vehicles and Equipment

2025 – 2034 Capital Improvement Plan

Saint Paul Regional Water Services

Project Name	Distribition Vehicles and Equipment	**Infrastructure Category**	Vehicles and small capital
Division	Distribution	**Work type**	Replacement

Project Description

Annual budget for vehicles and small equipment replacement assigned to the Distribution Division.

Background

The equipment fleet for the Distribution Division includes approximately 185 vehicles and construction equipment items required to support operations, construction, and preventative maintenance tasks performed by division staff. Equipment is systematically replaced at approriate times to minimize the overall cost of ownership and maintain equipment reliability. The projected capital costs represent the expenses associated with vehicle and equipment replacement, adjusted for the projected rate of inflation.

Strategic Plan Goal

Financial stability

Infrastructure strategy and performance

Schedule

Planning	Q3-Q4
Design	Q4-Q1
Construction	Q2-Q3
Completion	Q3

Operational Implications

Reduction in maintenance needs and reliability concerns with critical equipment assigned to the Distribution Division.

Project References

Vehicle and Equipment Replacement Policy

NOTES

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	845,000	870,000	895,000	920,000	945,000	975,000	1,005,000	1,025,000	1,055,000	1,087,000	9,622,000
Bond											
Grant											
Total	845,000	870,000	895,000	920,000	945,000	975,000	1,005,000	1,025,000	1,055,000	1,087,000	**9,622,000**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	845,000	870,000	895,000	920,000	945,000	975,000	1,005,000	1,025,000	1,055,000	1,009,000	9,544,000
Total	845,000	870,000	895,000	920,000	945,000	975,000	1,005,000	1,025,000	1,055,000	1,009,000	**9,544,000**

Project Name	2025 Production Vehicle Replacements & Repairs	**Infrastructure Category**	Vehicles and small capital purchases
Division	Production	**Work type**	Replacement

Project Description

Replace the following vehicles:
- 557: 2008 Ford F250 Pickup
- 597: 2010 Ford Transit Cargo Van
- 599: 2011 Ford Ranger

Perform Body Work/Painting to Correct Rust Issues with:
- 598 Mercedes Sprinter Van (Electricians)

Background

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	
Design	
Construction	
Completion	2025

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital	200k										200k
Bond											0k
Grant											0k
Total	200k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**200k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	200k										200k
Total	200k	0k	0k	0k	0k	0k	0k	0k	0k	0k	**200k**

Project Name	2025 Production Vehicle Replacements & Repairs	**Infrastructure Category**	Vehicles and small capital purchases
Division	Production	**Work type**	Replacement

Project Description

Replace the following vehicles:
- 648: 2012 Ford F350
- 659: 2013 Ford F350 (Salt Truck)
- 650: 2013 Ford E350 Cargo Van
- 665: 2013 Dump Truck (Single Axle)

Background

Per discussions with Vadnais, the single axle dump truck #665 is in need of replacement before 2027 since it is used for salting and is subject to greater than typical corrosion.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	
Design	
Construction	
Completion	2026

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital		290k									290k
Bond											0k
Grant											0k
Total	0k	290k	0k	0k	0k	0k	0k	0k	0k	0k	**290k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution		290k									290k
Total	0k	290k	0k	0k	0k	0k	0k	0k	0k	0k	**290k**

Project Name	Purchase Skid Steer & Wood Chipper	**Infrastructure Category**	Vehicles and small capital purchases
Division	Production	**Work type**	Replacement

Project Description

Purchase a new skid steer for the Vadnais team. Determine whether the existing skid steer should be auctioned off or kept in service until it fails.

Background

The Vadnais team makes frequent use of a skid steer that is believed to be approaching the end of its useful life.

The Vadnais team maintains a significant amount of wooded/forested land adjacent to our infrastructure. The land contains diseased trees and requires regular maintenance, particularly when our property abuts private property. Vadnais currently has one wood chipper but often has to rent a second wood chipper to keep up. Purchasing a second wood chipper will help our team to keep up without requiring rentals. Also, the existing wood chipper is approaching the end of its useful life. Purchasing a second wood chipper will allow us to run the first wood chipper to failure and prepare us for when that failure occurs.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	
Design	
Construction	
Completion	2026

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital		73k									73k
Bond											0k
Grant											0k
Total	0k	73k	0k	0k	0k	0k	0k	0k	0k	0k	**73k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution		73k									73k
Total	0k	73k	0k	0k	0k	0k	0k	0k	0k	0k	**73k**

Project Name	2027 Production Vehicle Replacements & Repairs	**Infrastructure Category**	Vehicles and small capital purchases
Division	Production	**Work type**	Replacement

Project Description

Replace the following vehicles:
- 651: 2013 Ford Crew Van F-59
- 609: 2015 Ford F350 Transit Van
- 679: 2015 Ford F350

Background

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	
Design	
Construction	
Completion	2027

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital			215k								215k
Bond											0k
Grant											0k
Total	0k	0k	215k	0k	0k	0k	0k	0k	0k	0k	**215k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution	200k		215k								415k
Total	200k	0k	215k	0k	0k	0k	0k	0k	0k	0k	**415k**

Project Name	2028 Production Vehicle Replacements & Repairs	**Infrastructure Category**	Vehicles and small capital purchases
Division	Production	**Work type**	Replacement

Project Description

Replace the following vehicles:
- 681: 2015 Ford F350 4x4 Supercab
- 512: 2016 Ford F350 4x2 Regular Cab

Background

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	
Design	
Construction	
Completion	2028

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital				136k							136k
Bond											0k
Grant											0k
Total	0k	0k	0k	136k	0k	0k	0k	0k	0k	0k	**136k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution				136k							136k
Total	0k	0k	0k	136k	0k	0k	0k	0k	0k	0k	**136k**

Project Name	2029 Production Vehicle Replacements & Repairs	**Infrastructure Category**	Vehicles and small capital purchases
Division	Production	**Work type**	Replacement

Project Description

Replace the following vehicles:
2016 FORD F-350 PICKUP #688
2016 FORD F350 4X2 REG CAB #514 (2017 per title)
2016 FORD F350 4X4 SUPERCAB #601 6.5' BOX #601
2015 JOHN DEERE 5055E TRACTOR W/ LOADER #T-97

Background

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	
Design	
Construction	
Completion	2029

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital					280k						280k
Bond											0k
Grant											0k
Total	0k	0k	0k	0k	280k	0k	0k	0k	0k	0k	**280k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution					280k						280k
Total	0k	0k	0k	0k	280k	0k	0k	0k	0k	0k	**280k**

Project Name	Replace Boat Used for Lake Sample	**Infrastructure Category**	Vehicles and small capital purchases
Division	Production	**Work type**	Replacement

Project Description

Purchase a New Boat for Lake/Lagoon Sampling.

Background

SPRWS owns a small boat that we utilize to collect samples from the raw water supply system. The boat is also used to measure sludge depths in the process wastewater storage lagoons (north of Roselawn). Per discussions with the lab staff, who performs sampling, this boat is old and will be in need of replacement in this timeframe.

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	
Design	
Construction	
Completion	2025

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital					18k						18k
Bond											0k
Grant											0k
Total	0k	0k	0k	0k	18k	0k	0k	0k	0k	0k	**18k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution					18k						18k
Total	0k	0k	0k	0k	18k	0k	0k	0k	0k	0k	**18k**

Project Name	2030 Production Vehicle Replacements & Repairs	**Infrastructure Category**	Vehicles and small capital purchases
Division	Production	**Work type**	Replacement

Project Description

Replace the following vehicles:
- 598: 2011 Mercedes Sprinter Van (Electricians)
- 2016 RAM 3500 CARGO VAN (title is 2017)
- 2017 PICKUP FORD F350 4X4 #517
- 2017 PICKUP FORD F350 4X4 #527
- 2018 FORD ESCAPE SUV #545

Background

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	
Design	
Construction	
Completion	2030

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital						396k					396k
Bond											0k
Grant											0k
Total	0k	0k	0k	0k	0k	396k	0k	0k	0k	0k	**396k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution						396k					396k
Total	0k	0k	0k	0k	0k	396k	0k	0k	0k	0k	**396k**

Project Name	Purchase New Tractor for Vadnais Team	**Infrastructure Category**	Vehicles and small capital purchases
Division	Production	**Work type**	Replacement

Project Description

Purchase New Tractor for Vadnais Team

Background

Per discussion with the Vadnais team, I understand that this should be replaced in the next 5-10 years (as of 2024).

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	
Design	
Construction	
Completion	2030

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital						65k					65k
Bond											0k
Grant											0k
Total	0k	0k	0k	0k	0k	65k	0k	0k	0k	0k	**65k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution						65k					65k
Total	0k	0k	0k	0k	0k	65k	0k	0k	0k	0k	**65k**

Project Name	2031 Production Vehicle Replacements & Repairs	**Infrastructure Category**	Vehicles and small capital purchases
Division	Production	**Work type**	Replacement

Project Description

Replace the following vehicles:
2018 PICKUP FORD F350 4X4 #538
2019 PICKUP FORD F350 4X4 #546
2019 PICKUP FORD F350 4X4 #547

Background

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	
Design	
Construction	
Completion	2031

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital							219k				219k
Bond											0k
Grant											0k
Total	0k	0k	0k	0k	0k	0k	219k	0k	0k	0k	**219k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution							219k				219k
Total	0k	0k	0k	0k	0k	0k	219k	0k	0k	0k	**219k**

Project Name	2032 Production Vehicle Replacements & Repairs	**Infrastructure Category**	Vehicles and small capital purchases
Division	Production	**Work type**	Replacement

Project Description

Replace the following vehicles:
2020 FORD F350 #516 SUPERCAB
2020 FORD F450 4X4 PU #517 W/DUALS
2021 FORD RANGER #622 Vadnais

Background

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	
Design	
Construction	
Completion	2032

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital								225k			225k
Bond											0k
Grant											0k
Total	0k	0k	0k	0k	0k	0k	0k	225k	0k	0k	**225k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution								225k			225k
Total	0k	0k	0k	0k	0k	0k	0k	225k	0k	0k	**225k**

Project Name	2033 Production Vehicle Replacements & Repairs	**Infrastructure Category**	Vehicles and small capital purchases
Division	Production	**Work type**	Replacement

Project Description

Replace the following vehicles:
2020 FORD T250 TRANSIT CARGO VAN #611 (painters)
(2021 per title)
2021 FORD F350 4x4 TRUCK #623 Vadnais
2021 MACK SINGLE AXLE DUMP TRK #626 (Vadnais)

Background

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	
Design	
Construction	
Completion	2033

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital									265k		265k
Bond											0k
Grant											0k
Total	0k	0k	0k	0k	0k	0k	0k	0k	265k	0k	**265k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution									265k		265k
Total	0k	0k	0k	0k	0k	0k	0k	0k	265k	0k	**265k**

Project Name	2033 Production Vehicle Replacements & Repairs	**Infrastructure Category**	Vehicles and small capital purchases
Division	Production	**Work type**	Replacement

Project Description

Placeholder. Vehicles have not been identified for replacement yet.

Background

Strategic Plan Goal

Infrastructure strategy and performance

Schedule

Planning	
Design	
Construction	
Completion	2034

Operational Implications

Project References

NOTES

Note: Revenue and Expenses Below are in Thousands

REVENUE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
Capital										300k	300k
Bond											0k
Grant											0k
Total	0k	0k	0k	0k	0k	0k	0k	0k	0k	300k	**300k**
EXPENSE	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**	**2034**	**Total**
Distribution										300k	300k
Total	0k	0k	0k	0k	0k	0k	0k	0k	0k	300k	**300k**