

Plan Structure







A Note

from our General Manager

The water industry is experiencing an era of rapid change. From evolving regulatory requirements and emerging environmental challenges to the integration of new technologies and increasing customer expectations, we are facing a landscape that demands innovation, agility, and collaboration. At Saint Paul Regional Water Services (SPRWS), we recognize that thriving in an ever-changing environment requires a clear strategic direction - one that is regularly reviewed and updated to adapt to new challenges and opportunities.

As we look ahead, this Strategic Plan represents a comprehensive approach to navigating these challenges over the next few years, ensuring we continue to deliver safe, reliable, and affordable water to the communities we serve. At the heart of this plan is our commitment to collaboration - within our organization, with our partners, and with our customers.

We recognize that meeting the needs of our communities requires strong teamwork, a deep understanding of emerging trends, and the ability to innovate without losing sight of our mission.

I would like to take this opportunity to extend my deepest gratitude to the 300+ dedicated employees at SPRWS who work tirelessly around the clock to ensure the continued delivery of essential water services. Your commitment, passion, and expertise are the foundation of our success, and I am proud to work alongside you. I also want to express my sincere appreciation to our Board of Water Commissioners and to our customers. Your trust and support are invaluable as we move forward in shaping a sustainable and resilient future for SPRWS.

This Strategic Plan is not just a document; it is a roadmap for the future - one that reflects our shared commitment to growth, innovation, and excellence in service. Together, we will continue to meet the challenges of today and embrace the opportunities of tomorrow.

Råcquel Vaske SPRWS General Manager

OVERVIEW

MISSION

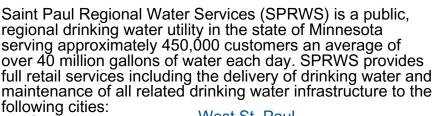
STATEMENT

Provide high-quality water and exceptional services for the people and communities we support.

VISION

STATEMENT

To be a trusted partner in building healthy, resilient communities through the delivery of high-quality, sustainable water and services.



- Saint Paul
- Maplewood
- Mendota Heights
- West St. Paul
- Falcon Heights
- Lauderdale

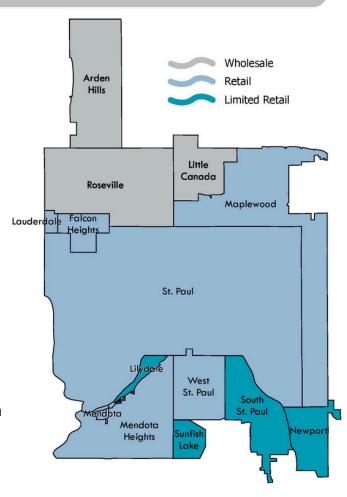
Full retail services are also provided to a limited number of residents in the following cities:

- Mendota
- South St. Paul
- Lilydale
- Newport
- Sunfish Lake

In addition, SPRWS sells wholesale drinking water to the following cities:

- Little Canada
- Roseville, who then sells to Arden Hills.

SPRWS has been a public water utility since 1882 and does not use tax funding to operate. The utility is self-supporting and provides all services using the revenue obtained through the sale of water and payment for services.





Saint Paul Regional Water Services is governed by a sevenmember Board of Water Commissioners that sets policy and guides the future direction of the water utility and its staff. The Board consists of three members of the Saint Paul City Council, two Saint Paul citizens, and two representatives of the suburbs served by SPRWS.

STRATEGIC PLANNING

SPRWS has developed and utilized Strategic Plans to guide our work and position the organization for longterm success since 1993. New iterations are developed every few years to reflect evolving goals, emerging challenges, and new opportunities. Each strategic planning cycle is a comprehensive, collaborative effort that includes input from various stakeholders. The Board of Water Commissioners, city leadership teams, and SPRWS employees are all encouraged to share their experiences, concerns, and innovative ideas. These open and honest conversations allow us to gather a wide range of perspectives that directly inform our goals and initiatives.

The SPRWS Executive Team leads this process by not only gathering ideas but also by analyzing external trends, monitoring emerging technologies, and conducting a thorough self-assessment using the Effective Utility Management (EUM) framework developed by the U.S. Environmental Protection Agency (EPA). Through this multi-faceted approach, the Executive Team shapes the overarching strategy and priorities for SPRWS - ensuring our direction is both forward-thinking and grounded in operational efficiency.

We extend our sincere thanks to all those involved in this process for their continued dedication, thoughtful contributions, and excitement for the future. Their insights are essential to building a strategic plan that is not

STRATEGIC BUSINESS PLANNING AND MANAGEMENT

only visionary but actionable - one that will continue to move SPRWS

forward in serving our communities for years to come.

EFFECTIVE UTILITY MANAGEMENT

SPRWS utilizes the Environmental Protection Agency's Ten Attributes of Effectively Managed Water Sector Utilities to provide a strong base for internal evaluation. This balanced structure ensures we continue to evaluate progress on a variety of essential operational areas rather than reactively moving from one problem to the next.

SAINT PAUL REGIONAL WATER SERVICES

EXECUTIVE LEADERSHIP TEAM







Strategy and Performance

Water Resourc Sustainability



Operational Optimization

CONTINUAL IMPROVEMENT MANAGEMENT

Effective

Utility

Management

Financial Viability













INDUSTRY TRENDS



Aging Infrastructure

Water system infrastructure across the country is outdated and in need of replacement or repair. Delays in addressing these needs increase the risk of failures and service disruptions. Ongoing investment in infrastructure renewal is critical to maintaining reliability and safety.



Regulatory Pressures

Regulations around water quality, safety, and reporting continue to expand, often without funding - creating financial and operational strain. Engagement in State and Federal rulemaking is essential to help shape effective regulations.



Financial Challenges

Water use is declining, but infrastructure and service costs are rising. This mismatch creates pressure to raise rates, which must be justified through transparent decision-making, cost control, and efficient operations. Accessing outside funding sources will also be key.



Evolving Customer Expectations

Today's customers expect more than just reliable water - they want clear communication, fast service, and transparency around quality and environmental impact. Meeting these expectations requires better customer service tools and more responsive engagement.



Workforce Changes

Many experienced water industry employees have already or will be retiring soon. Replacing them is difficult due to competition for talent and changing career expectations. Utilities must attract and train the next generation of professionals to ensure continuity and innovation.



Technology and Innovation

New technologies are helping utilities monitor systems, treat water more effectively, and extend infrastructure life. Embracing innovation supports better service and cost savings - but also requires investment and skilled staff to implement.



Energy Costs and Environmental Demands

Energy is a major utility expense, and prices continue to fluctuate. At the same time, utilities are under pressure to reduce emissions and use energy more efficiently. Improving energy performance is essential for both cost control and sustainability.



Resilience and Security

Utilities face increasing risks from climate change, public health emergencies, and cyber threats. As systems become more digital and interconnected, protecting against digital disruptions is critical. Strengthening emergency preparedness, cybersecurity, infrastructure resilience, and staff training helps ensure safe, reliable service and protects both employees and customers.

SPRWS PYRAMID OF SUCCESS

At SPRWS, we understand that meeting the evolving needs of our communities requires more than simply delivering safe, reliable water. To navigate the complex challenges and opportunities ahead, we've established a set of Guiding Principles that Quality shape our actions, decisions, and relationships. Water These principles are expressed through our Pyramid of Success, a structured framework that aligns our work with our mission. Infrastructure Each part of the pyramid represents one Strategy & of these principles, beginning with Performance foundational elements that support organizational strength and stability. As each layer is reinforced, we build the capacity to achieve broader strategic goals - culminating in our Stakeholder highest objective: delivering Resource Understanding high-quality water to our & Support customers today and for generations to come. **Financial** Throughout the organization, Stability Workforce Development these principles serve & Empowerment as a compass - keeping us aligned, responsive, and accountable. Customer & Community-Centered



EQUITY INNOVATION RESILIENCE Surrounding and supporting these guiding principles are the core values that define how we approach our work. These values shape our culture and decision-making, ensuring that we lead with purpose and integrity:

Service

- Equity ensures that all communities especially those historically underserved - have fair and inclusive access to safe, clean drinking water.
- Innovation drives us to embrace new technologies, modernize our systems, and develop smarter solutions for a changing world.
- Resilience empowers us to anticipate and adapt to environmental, operational, and economic challenges, maintaining reliable service through uncertainty.

GUIDING PRINCIPLES

The next section of this Strategic Plan outlines each of the Guiding Principles in greater detail and highlights broad goals associated with each. While many initiatives naturally support multiple principles, we have organized them under the one where they will have the greatest impact. As we develop more specific goals in day-to-day operations and pursue new initiatives, we remain intentional about aligning every effort with these principles - ensuring our work stays focused on our defined strategy.

CUSTOMER AND COMMUNITY-CENTERED SERVICE

In order to be a successful service provider, we must prioritize understanding and meeting the diverse needs of our customers. People differ in how they communicate, manage payments, and navigate affordability challenges. By fostering inclusive engagement, offering accessible service options, and prioritizing clear, two-way communication, we aim to build trust and ensure equitable access to essential water services for all.

Beyond customer service, we recognize our broader role as a community partner. Our role includes supporting the region's long-term economic, social, and environmental well-being.

Implement
New
Methods for
Customer
Feedback
and Input

Develop and Utilize a

Customer Experience Guide
to Elevate Service at all
Customer Touch Points

Launch a

Customer Contact Campaign
to Improve the Availability and
Accuracy of Customer Contact
Information to Assist in Better
Communication

Roll Out
Automated
Metering
Infrastructure
(AMI)
to Catch and
Minimize Leaks
on Customer
Infrastructure

Automated
Metering
Infrastructure
Allows for
Leak
Forgiveness
and Monthly
Billing
in the Future

More
Information
Regarding AMI
Can Be Found
in the Key
Initiatives
Section

Expand
Awareness and
Use of the New
Customer
Portal
including
Auto Pay
&
E-Billing
Services

Continue to
Advocate for
and Fund LowIncome
Assistance
Program:
Water Works

Increase
Program
Awareness,
Usability, and
Participation



Workforce Development and Employee Empowerment

It is essential that we foster a workplace where all employees can thrive and contribute meaningfully to the SPRWS mission. Over the past decade, we have experienced a significant loss of institutional knowledge due to retirements. About 40% of our current staff have worked at SPRWS for less than five years. While this presents challenges as we rebuild knowledge - this shift presents a unique opportunity to thoroughly review and evaluate the ways in which we operate to ensure our practices align with current needs. By assessing our operations and making necessary adjustments where needed, we can enhance our efficiency and effectiveness. Our focus will be on creating a culture of continuous learning and development, offering comprehensive training programs, leadership development opportunities, and targeted knowledge transfer initiatives. This will empower employees to take initiative, innovate, and contribute to meeting the evolving challenges. By creating a supportive and inclusive work environment that values diversity, promotes collaboration, and encourages work-life balance, we aim to attract, retain, and develop a talented workforce capable of meeting the needs of the water industry now and into the future.



Continue to Prioritize and Build a Welcoming & Inclusive Culture

Build Upon
Efforts Aimed at
Local and
Diverse
Recruitment
to Ensure
Workforce
Reflects Our
Communities

Enhance
Evaluation
and
Feedback
Structures
to Support
Continuous
Growth for All
Employees



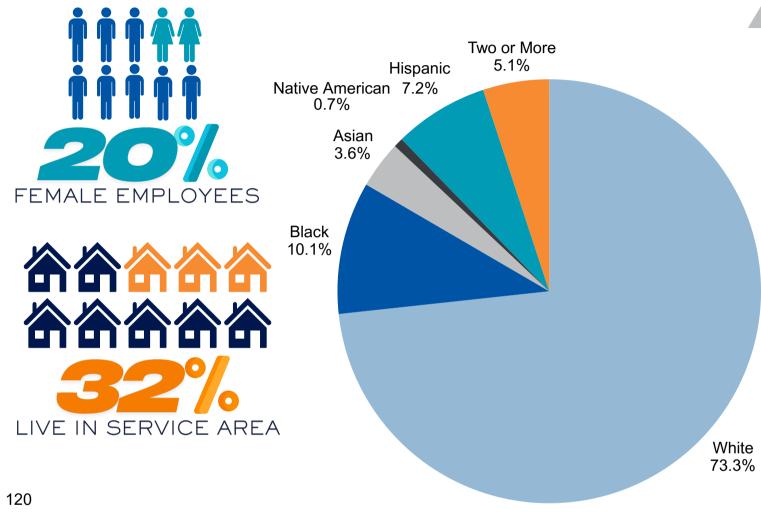
Invest in

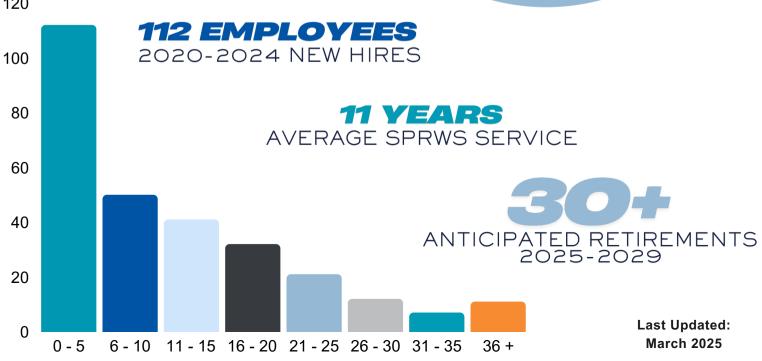
Development Opportunities
including Skill Building,
Cross Training, Mentorship,
and Succession Planning



EMPLOYEES BY THE #s



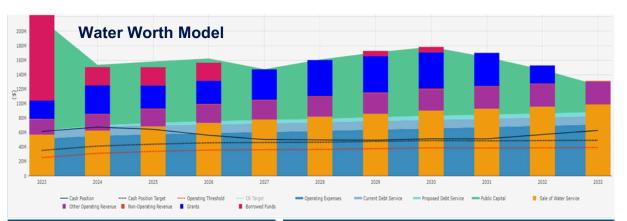




FINANCIAL STABILITY

Over the next few years, SPRWS will work to leverage technology and data-driven insights to optimize operational efficiency and financial sustainability. By integrating solutions like Automated Metering Infrastructure (AMI) and advanced asset management systems, we will enhance service reliability, reduce water loss, and modernize infrastructure. Data will guide us in making informed investment decisions, ensuring resources are allocated effectively for maximum impact. As part of our financial strategy, we are committed to maintaining our Triple-A bond rating by closely monitoring key industry financial indicators tied to utility stability, debt management, and long-term solvency. Through strategic planning and smart investments, we will deliver high-quality water services while maintaining affordability, fiscal strength, and long-term sustainability.

Focus on
Stronger
Asset
Management
to Support Data
Driven
Investments.
This Includes a
New System,
New Role, and
Formalized
Asset
Management
Plan



Research and Advocate for External Funding Sources to Minimize Reliance on Rate Increases Continue to Enhance and Roll Out Long-Term Financial Plans Utilizing Water Worth Modeling to Make Strategic Financial Decisions

Build Additional Transparency and Involvement in the **Budgeting Process**

Conduct a thorough Rate Study and Implement Rate Changes to Support Affordability and Conservation





Infrastructure Strategy and Performance

As a forever business, SPRWS must commit to maintaining a resilient water system. To meet this need we must be focused on strategic infrastructure planning, investment, and performance management. Central to this focus is the 10-Year Capital Improvement Plan (CIP), which serves as a comprehensive roadmap for maintaining, upgrading, and replacing the utility's infrastructure assets.

During this strategic cycle, we will expand the role of the 10-Year Capital Improvement Plan deepening analysis, refining prioritization processes, and more closely aligning investments with performance outcomes and customer expectations. Future updates will increasingly emphasize lifecycle cost analysis, risk-based decision-making, and the integration of new technologies to improve operational efficiency and service reliability. By proactively investing in data-driven planning and asset management, SPRWS is building a stronger foundation to support a sustainable, adaptive, and high-performing water utility.

Continue to Build Out a Further Informed 10-Year Capital Investment Plan (CIP)

Further Refine Capital Spending **Prioritization** Model to Invest Limited **Funding** Strategically

Align Infrastructure Projects with Kev Performance **Indicators** (KPIs)

Enhance Water Audit Methods to **Identify** and Address Increases in Non-Revenue Water (NRW)

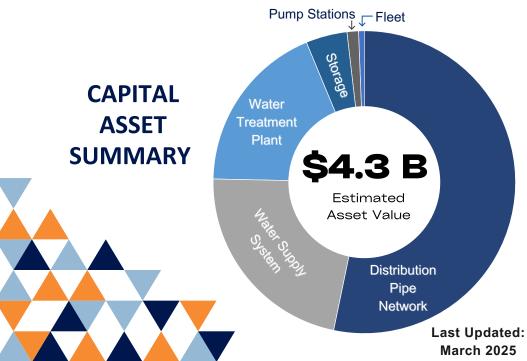
Clearly Communicate and Gain Support for **Necessary Rate Impacts** to Address Aging Infrastructure

More

Information Regarding These Projects Can Be Found in the Key Initiatives Section

Successfully Increase Capital Spending and Deliver a variety of Projects Including:

McCarrons Treatment Plant Upgrade Lead Free SPRWS Meter System Renewal





Energy and Water Resource Sustainability

At SPRWS, sustainability is more than a goal - it is a guiding principle that shapes every aspect of responsible utility management. As the impacts of climate change intensify, infrastructure ages, and natural resources face increasing pressure, utilities must act with foresight and environmental responsibility. For SPRWS, this means embedding sustainability into every operational and planning decision we make.

From protecting our source water and reducing system losses to improving energy efficiency and exploring renewable energy options, SPRWS is committed to managing resources in a way that safeguards the environment, strengthens system resilience, and ensures long-term reliability. By applying an environmental lens to our daily work and strategic direction, we aim to lead with innovation, protect future water supply needs, and support regional efforts to preserve Minnesota's water resources.

for Existing and Future
SPRWS Customers

Further Expand the Use of Renewal Energy Sources

Utilize

Energy Audits and Pump Studies
to Make Informed Operational
Decisions Aimed at
Greater Efficiency

Build Upon Relationships with Local Organizations to Enhance Watershed Protection

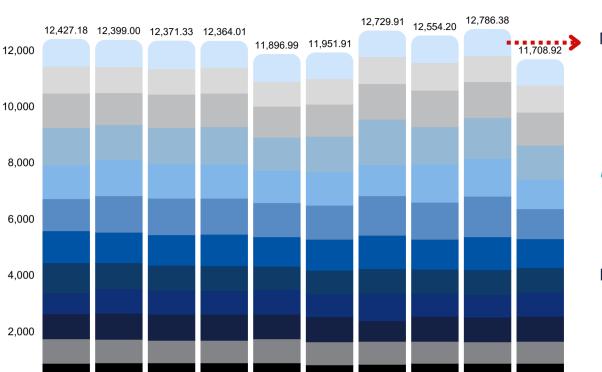
Utilize Emerging Technology to Reduce Water Loss

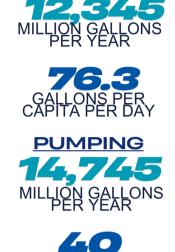


WATER CONSUMPTION HISTORY

10 YEAR AVERAGES

CONSUMPTION







INITIAL EXPANSION CONSIDERATIONS

2018

2019



0

2015

14,000



2016



2017



2020

2021

2022

2023

2024

As communities in the northeast metro experience growing water demand and face challenges such as PFAS contamination, SPRWS is carefully evaluating the potential to support regional needs through limited service area expansion. While our current system analysis indicates a comfort level of approximately 7 million gallons per day (MGD) that could potentially serve additional communities, utilizing even this amount would require significant investment in distribution infrastructure to extend service beyond our existing boundaries. Any expansion beyond that volume would necessitate an increase in treatment capacity at our new facility. As we explore these possibilities, SPRWS remains committed to protecting the reliability of service for our current customers and making decisions grounded in long-term sustainability. We intend to work closely with the Metropolitan Council, Minnesota Department of Health, Department of Natural Resources, and other local and regional agencies as they assess a range of solutions to meet the area's future water needs.



STAKEHOLDER ENGAGEMENT AND SUPPORT

SPRWS is committed to being more than a utility provider - we strive to serve as a pillar of the community, contributing to the social, economic, and environmental health of the region. As we look toward 2030, our ability to deliver safe, reliable water will depend not only on technical skills but also on the strength of our relationships with the public, our partners, and the institutions we work alongside. Building stakeholder understanding and support is critical as we address aging infrastructure, respond to evolving regulatory requirements, and navigate growing public attention on drinking water quality. To earn and sustain trust, SPRWS must be transparent in our decision-making, clear in our communication, and visible in our community service. We will continue to invest in outreach, education, and engagement - sharing updates on major projects, highlighting the

essential work of our employees, and creating meaningful opportunities for feedback. These efforts will help ensure our stakeholders understand the value and necessity of long-term investments, and support the funding required to maintain and modernize our system. By strengthening partnerships, expanding our presence in schools and local organizations, and reinforcing collaboration with the cities

in schools and local organizations, and reinforcing collaboration with the cities we serve and the Board of Water Commissioners, SPRWS will

continue to lead with integrity and innovation, earning our place as a trusted public steward in a rapidly changing world.

Continue to
Build Social Media Following and
Development of Engaging Content
to Keep Variety of Stakeholders
Informed

Strengthen
Collaboration with Peer Utilities
to Share Knowledge and Drive
Innovation

Renovate the McCarron's Room in the Treatment Plant to Serve as an Interactive Learning Space

Expand
Educational Opportunities
Including School Visits and a Variety of
Tour Options

Build Upon Momentum Around

Branding and Engagement Efforts

to Increase Awareness Across All

Customer Cities



Partner with Local
Agencies and Cities in
the North East Metro to
Evaluate Regional
Water Needs
and Potential for an
Expanded

SPRWS Service Area

Increase Involvement in
Political Advocacy
to Ensure Utility Needs
Are Clearly
Understood By Decision
Makers



REGULATORY COMPLIANCE AND QUALITY WATER

Ensuring the delivery of clean, safe drinking water is at the core of our mission. We are dedicated to maintaining the highest standards of water quality while meeting or exceeding all regulatory requirements. Our commitment to regulatory compliance is unwavering, as we continuously monitor and adapt our water quality practices to address emerging challenges. By focusing on reliability, proactive monitoring, and best practices, we aim to provide a consistent and dependable drinking water that serves the various needs of our communities and customers.











Successfully
Transition to the
Upgraded Water
Treatment Plant
and Ensure Continued
Regulatory Compliance

Monitor and Address
Emerging Contaminants
Including PFAs

Achieve and Maintain Full
Compliance with the
Lead and Copper Rule
as we Work to Remove
Lead Service Lines

Enhance
Emergency Preparedness
and Response
to Ensure Resiliency

Achieve and Maintain

Phase IV Partnership for

Safe Water
in both the Production and
Distribution Divisions

Adopt Advanced
Technologies for Enhanced
Water Quality Monitoring
in the Distribution System

The following section highlights five of the most significant and influential projects underway during this strategic cycle. These Key Initiatives represent major investments in infrastructure, technology, and service delivery that will shape the future of SPRWS. While each initiative supports multiple Guiding Principles, they are called out separately to emphasize their scale, impact, and strategic importance.

Project Overview TOMER PORTA

In January 2025, SPRWS launched a modern, secure online customer payment portal designed to enhance convenience and improve service delivery for our customers. This new platform provides 24/7 access to water billing information, allowing residents to view and pay bills anytime, from any device. With features such as multiple payment methods, email and text reminders, recurring payment options, and paperless billing enrollment, the portal empowers customers to stay current on their accounts and avoid late fees. Beyond convenience, the system improves operational efficiency, reduces manual processing and paper costs, and strengthens data security in line with industry standards. By leveraging real-time processing and advanced analytics, SPRWS is not only streamlining service but also gaining valuable insights to better anticipate customer needs and continue improving the overall experience.



SPRWS is focused on the following areas for growth during this strategic cycle to truly make this project successful:

- Increase Customer Enrollment on the Portal
- Increase Use of Automated Payments
- Increase Utilization of Paperless Billing
- Further Development of Chatbot Functionality

These enhancements will help us better engage with our customers, make interactions more efficient, and ensure the portal continues to evolve as a valuable tool for delivering exceptional service.

Project Overview

SPRWS is implementing a new multi-faceted enterprise asset management system (EAMS) to modernize asset and work management and support data-informed decision-making. The project includes three parts:

- Oracle Utilities Work and Asset Cloud Service (WACS)
- Oracle Field Service (OFS)
 Oracle Utilities Analytics Visualization (OUAV)

The project replaces legacy systems with a centralized, cloud-based platform that unifies asset management, work orders, and field operations. This modern system integrates seamlessly with existing GIS, financial, customer information, and timekeeping systems to improve data accuracy, coordination, and operational efficiency. With real-time dashboards and robust analytics, SPRWS will gain enhanced visibility into asset performance, enabling more informed planning, budgeting, and service improvements. By streamlining operations and connecting field and office staff, this platform positions SPRWS to manage resources more proactively and serve the community with greater reliability.

This initiative marks a strategic shift toward a more comprehensive use of asset management. As adoption expands organization-wide, asset data will play a critical role in utilizing KPIs, developing maintenance schedules, conducting risk assessments, analyzing lifecycle costs and shaping the 10-Year Capital Improvement Plan.



MCCARRONS TREATMENT PLANT

ESTIMATED PROJECT COST \$250 MILLION



As part of the 2030 Strategic Plan, successfully completing the McCarrons Water Treatment Plant Improvement Project will be one of SPRWS's most critical early milestones. This once-in-ageneration investment will modernize our core treatment infrastructure, ensure operational excellence for decades to come, and maintain SPRWS's legacy of delivering safe, high-quality drinking water to over 450,000 customers.





(2018–2021)
Extensive design, testing, and budgeting



Construction (2022–2025) Construction of new treatment facility



Testing & Transition (Summer 2025) Commissioning and regulatory validation of all new systems



Final Demolition (Sept 2025–June 2026) Removal of obsolete structures



Final Construction (Nov 2025–July 2026) New water quality lab, site restoration, and landscaping

Background & Vision

Originally built in 1920, the McCarrons plant has served the region well for over a century. However, its aging infrastructure, while functional, poses increasing risks to reliability. Recognizing this, SPRWS began a multi-phase modernization effort in 2018. The project includes complete replacement of key treatment components, integration of ozonation, and demolition of obsolete systems, all with a focus on long-term public health, costefficiency, and sustainability.

Key Project Features

Ozonation integration to improve taste, odor control, and removal of emerging contaminants

Advanced treatment technology to improve efficiency and allow flexible future upgrades

Infrastructure consolidation to reduce maintenance costs and prepare for future system needs

Historic preservation efforts to honor the facility's history

Upcoming Priorities

Bringing the new facility online mid-2025 following rigorous testing and validation

Training and certifying staff to operate new systems with advanced technologies and safety protocols

Maintaining or improving water quality standards, ensuring a seamless transition for customers

Monitoring emerging contaminants of concern, including PFAS, and planning for future plant updates if needed

Project Overview LEAD FREE SPRWS

~26,000

LEAD SERVICE LINES ESTIMATED
PROJECT
COST
400
MILLION



Continuing to advance the Lead-Free SPRWS initiative will be one of the most important efforts during this strategic cycle. This commitment to replace all lead service lines represents a major investment in public health, environmental justice, and community trust. By proactively eliminating lead from our system, SPRWS is working to protect future generations, uphold our commitment to water quality, and ensure every customer has safe, lead-free drinking water at the tap.



PROJECT OVERVIEW:

In most cases, lead is not found in water leaving the treatment plant or in water mains. However, lead was commonly installed up until 1948 for service lines -the small pipes that connect individual homes and buildings to water mains. As these old lead pipes corrode over time, they can allow lead to leach into drinking water - posing serious health risks, especially to infants, young children, and pregnant women.

A service line consists of two parts:

- The public side, which runs from the water main to the property line and is owned by the utility.
- The private side, which runs from the property line into the building and is the homeowner's responsibility.

In March 2022, in response to revisions to the EPA's Lead and Copper Rule and the potential for expanded funding opportunities, the SPRWS Board of Water Commissioners authorized the development of Lead Free SPRWS. The project was designed to eliminate the estimated 26,000 lead service lines within the SPRWS system.

PROJECT GOALS:

Voluntary and FREE for Customers Completion within 10 Years (2023-2032) At least 85% Participation

Typical Property Line Homeowner Responsibility (Private) Opportunity for SPRWS to fund!

PROJECT FUNDING

In 2022, the City of Saint Paul supported the pilot of this initiative by contributing \$16M of its American Rescue Plan allocation.

After a successful pilot, SPRWS partnered with state agencies to secure additional lead funding from the Drinking Water State Revolving Fund (DWSRF), which is jointly administered by the Minnesota Department of Health (MDH) and the Minnesota Public Facilities Authority (PFA). Lead funding was initially provided through this program from: Federal Infrastructure Investment and Jobs Act (IIJA) - \$300M Allocation to MN MN Legislature - Additional \$240 Allocation

These combined funds will be distributed as grants and forgivable loans. SPRWS will apply annually for the funding necessary to meet replacement targets.

FUNDING GAPS

Current funding available within the DWSRF does not meet the statewide need for lead replacements. SPRWS will continue to explore and advocate for additional funding to fully support the removal of lead by 2032.

PROJECT PARTNER

We have partnered with CDM Smith to help meet Lead Free SPRWS project demands.



Lead Replacement Prioritization

The most common questions we get about Lead Free SPRWS is: "When is my service line going to be replaced?"

With an estimated 26,000 lead and unknown service lines in the system, this is a big job - and many residents are eager to see it happen in their neighborhoods. To manage this work effectively and fairly, we've developed a two-step approach to determine which lines are replaced each year.

Step 1: Focus on Construction Efficiency

The first priority is to coordinate with City Departments and other local agencies to replace any lead lines located in areas where road reconstruction is already planned. This coordination helps us:

- Avoid reopening newly paved roadsMinimize neighborhood disruption
- Lower costs by taking advantage of shared construction efforts

Step 2: Apply Developed Prioritization Model

In partnership with CDM Smith, we developed a prioritization model focused on public health and equity. It uses two key factors:

 Children under age 5 - Young children are especially vulnerable to lead exposure. Areas with more young children are given higher priority.

 Environmental Justice (EJ) - This considers communities with higher percentages of low-income and minority residents, ensuring we serve the most disadvantaged neighborhoods first when possible.

By combining construction efficiency with public health-focused prioritization, SPRWS is working to remove lead service lines in a way that is both cost-effective and equitable - with the goal of replacing all lead lines by 2032.

Investing in the Local Workforce

It is important to our team that Lead Free SPRWS is not just about replacing pipes. We want to ensure that this significant financial investment also benefits the community more broadly. To maximize local impact and build long-term capacity, SPRWS is committed to performing part of the work in-house with the creation of over 30 new jobs. SPRWS employees support contracting, outreach, inspection and construction efforts. Internal crews will conduct up to 400 lead service line replacements each year while the remaining work will be contracted to qualified partners. To meet this demand for additional staff, an emphasis has been placed on local, diverse hiring to fill these spots either directly or indirectly. Part of this commitment was the launch of the Utility Trainee program, which provides individuals interested in the industry the chance to develop the skills needed for a successful water career. This workforce commitment assists in circulating public investment within the local economy and building a stronger, more responsive utility workforce for the future.



METER SYSTEM RENEWAL

Saint Paul Regional Water Services is conducting a strategic initiative aimed at modernizing our water metering infrastructure through the installation of Advanced Metering Infrastructure (AMI) collectors and the phased replacement of aging meter registers. The existing meter registers are reaching the end of their operational life and will be systematically replaced over seven years - some proactively, others as they naturally fail. At the same time, we are deploying a network of AMI data collectors designed to capture meter readings transmitted from the upgraded registers. This project not only ensures continued accuracy and reliability in water usage measurement but also enhances operational efficiency and supports more informed, data-driven decision-making.

Register Replacements

We plan to replace all outdated registers across our service area between 2024-2031. The new R900 Neptune registers will provide stronger, more reliable signals to collectors.

Workforce Strategy:

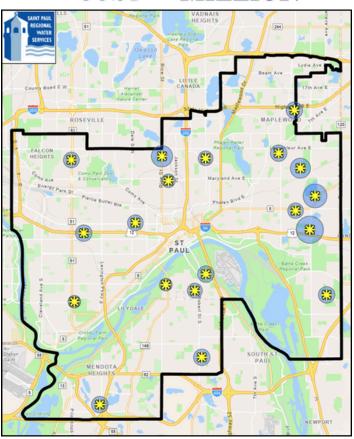
Unlike the previous replacement cycle in 2010 which replaced the entire system in two years, we are intentionally phasing replacements over 7 years. This avoids a future scenario where all equipment fails in a short timeframe and allows for a manageable annual workload. The work is being performed by internal SPRWS staff with a combination of year-round Meter Technicians and additional winter help. During winter months when construction work typically slows, distribution employees are reassigned to the register replacement project, avoiding seasonal layoffs and ensuring steady, meaningful work.

Collector Installations

To fully transition to an AMI system, our service area will require ~65 strategically placed collectors. SPRWS is prioritizing high elevation locations like water towers and supplementing with tall buildings and siren poles.

SPRWS received a \$150k conservation grant from the Metropolitan Council in 2024 to begin the rollout of collectors in the system.

TOTAL ESTIMATED PROJECT COST



By the end of 2024, about 10k registers had been replaced (mostly due to previous failures) and 22 collectors had been installed. About 25k accounts were being captured on AMI.

2025	2026	2027	2028	2029	2030	2031
+ 6 Collectors	+ 12 Collectors	+ 12 Collectors	+ 12 Collectors			
~10,000	~10,000	~10,000	~11,000	~11,000	~11,000	~11,000
Register	Register	Register	Register	Register	Register	Register
Replacements	Replacements	Replacements	Replacements	Replacements	Replacements	Replacements
~35,000	~45,000	~60,000	~75,000	~90,000	~90,000	~96,000
AMI Accounts	AMI Accounts	AMI Accounts	AMI Accounts	AMI Accounts	AMI Accounts	AMI Accounts

Meter System Overview



Meter Body

A meter is a mechanical device installed in a customer's home that measures how much water is used.



Meter Register

Sitting on top of the meter is the register, which records the usage and transmits the information. The register contains a battery and a radio transmitter.



Collector + Antenae

A collector is a receiver that gathers the register data.

Prior to this project, the collectors have been in vehicles. A Meter Reader drives the full system each quarter, collecting data as they drive by each location.

With this upgrade, collector technology is now installed on high elevation locations (such as water towers) and can pick up data from many nearby registers and send it back to SPRWS. This information is collected as frequently as every few minutes opposed to the 90-day intervals the collections had been occurring with drive-bys.



Why is this project happening now?

From 2010 to 2012, SPRWS replaced all ~100k meters and registers.

These Neptune registers, powered by batteries expected to last ~15 years, are now reaching end of life.

The meter body has an expected useful life closer to 30 years. Therefore, during this cycle, SPRWS will just be replacing the register portion of the device. With this major infrastructure replacement, SPRWS will upgrade registers to Neptune's next-generation R900 technology and Automated Meter Infrastructure (AMI).

Why is SPRWS transitioning to automated metering?

The move to AMI is not just about upgrading hardware - it's about transforming how we deliver and manage water service.

- Data-Driven System Management: AMI usage data allows for better visibility into system performance, enabling faster response to both household and system-level issues.
- Leak Detection: With AMI, we can detect household leaks within days - rather than months - helping customers avoid costly bills and reducing unnecessary water loss.
- Affordability and Equity: SPRWS currently bills customers quarterly. With more frequent and automated meter reads, we are laying the groundwork to move to monthly billing by 2030. Monthly billing helps customers manage expenses more predictably and supports overall affordability.



Transparency Accountability



As stewards of public resources and providers of an essential service, SPRWS is committed to maintaining transparency in our operations. With a variety of challenges facing the water industry, we recognize the need to balance sometimes competing priorities, such as meeting affordability expectations for our customers while addressing the growing needs of aging infrastructure and evolving water quality regulations. In our approach to responsible management, we prioritize open, clear communication to ensure that our strategies and decision-making processes are transparent. This openness builds trust with the community, helping others understand how we prioritize investments, navigate fiscal challenges, and meet regulatory standards. By upholding the highest levels of accountability, we ensure that our decisions are guided by the principles of ethical stewardship, balancing long-term infrastructure needs, regulatory compliance, and the immediate needs of our customers. This transparency holds us accountable to make necessary adjustments as conditions change and as new strategies may be required to meet emerging challenges.

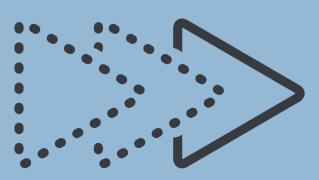
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UTILITY BENCHMARKING PROGRAM

To support this commitment and embrace continuous growth, SPRWS began participating in the AWWA Benchmarking Program in 2025. This program allows the utility to track and share performance in a variety of areas, compare results to peers, and identify areas that could be strengthened. This initiative will hopefully help create greater accountability, more specific goal setting, and continuous improvement.



LOOKING AHEAD



The 2030 SPRWS Strategic Plan sets the foundation for where we are headed—but the real work begins now. SPRWS staff will translate these strategic goals into detailed action plans, identifying responsible parties, timelines, and performance measures to ensure we are making meaningful progress. As conditions evolve, we will remain flexible and responsive, continuously evaluating and refining our strategies to meet the needs of our customers and the community. With a clear vision and shared commitment, SPRWS will continue to provide safe, reliable, and sustainable water services for generations to come.