

Our intention is to have in-person meetings going forward. Meetings will be held at 300 Bliss Avenue. This in-person location will meet the legal requirement for our open meetings. We will have a virtual option available, but technology for the hybrid style meeting may not be reliable.

**City of Stevens Point
Board of Water and Sewerage Commissioners
January 12, 2026 - 12:00 PM
Stevens Point Public Utilities
300 Bliss Avenue, Stevens Point, WI**

OR

**Zoom Teleconferencing
Meeting ID: 820 26885705**

By Computer: <https://us02web.zoom.us/j/82026885705>

By Phone: (303) 715-8592

AGENDA

Discussion and Possible Action on:

1. Roll Call.
2. Approval of Minutes
3. Approval of Department Claims
4. Public Hearing/Input on NR 854 document related to Water Supply Service Area Plans - *Joel Lemke*
5. Water Supply and Distribution Reports - *Eric Southworth*
6. Sewage Treatment Operations Report - *Chris Lefebvre*
7. Construction and Maintenance Report - *Shane Kohnen*
8. Directors Report - *Joel Lemke*
9. Adjournment.

The next Water and Sewerage Commission meeting will be Monday, February 9, 2026 at noon.

Any person who has special needs while attending this meeting or needing agenda materials for this meeting should contact the Director as soon as possible to ensure a reasonable accommodation can be made. The Director can be reached by telephone at (715) 345-5260, or by mail at 300 Bliss Avenue, P.O. Box 243 Stevens Point, WI.

Copies of resolutions, reports and minutes of the Board of Water & Sewerage Commission Meetings are on file at the Admin Office of the Water & Sewerage Departments for inspection during normal business hours from 7:30 A.M. to 4:00 P.M.

**City of Stevens Point
Board of Water and Sewerage Commissioners
December 8, 2025 - 12:00 PM
Stevens Point Public Utilities
300 Bliss Avenue, Stevens Point, WI**

**OR
Zoom Teleconferencing**

Meeting ID: 820 26885705

By Computer: <https://us02web.zoom.us/j/82026885705>

By Phone: (303) 715-8592

MINUTES

Discussion and Possible Action on:

1. Roll Call.

PRESENT: Paul Adamski, Mae Nachman, Carl Rasmussen, Anna Haines and Ray Schmidt

ALSO PRESENT: Joel Lemke, Eric Southworth, Chris Lefebvre, Shane Kohnen, Jason Draheim, Jaime Zdroik and resident-Jeff Bushman

2. Approval of Minutes

Motion made by Anna Haines, seconded by Ray Schmidt to approve the November 10, 2025, meeting minutes of the Board of Water & Sewerage Commission.

Ayes all. Nays none. Motion carried.

3. Approval of Department Claims

Motion made by Ray Schmidt, seconded by Carl Rasmussen to approve the department's claims for the month of November 2025 as audited and read.

Ayes all. Nays none. Motion carried.

4. Commissioner compensation - Joel Lemke

Joel's memo in the packet showed what the Commissioners have been paid in previous years and what the pay would be for 2026 with the 2.64% COLA that has been established City-wide.

The Commission's compensation was not always reviewed regularly, so years went by without increases. In approximately 2020, we reviewed it again, comparing it to what other City boards make, like Common Council. That helped us come up to where the pay should be, and we have been applying the cost of living annually since then.

Motion made by Carl Rasmussen, seconded by Anna Haines to approve the 2026 Commissioner's compensation with 2.64% cost of living (COLA) increase.

Ayes all. Nays none. Motion carried.

5. Water Supply and Distribution Reports - *Eric Southworth*

Eric stated he would look into why the kilowatts were up with pumpage being down slightly on the reports. Other than that, he had nothing else to add.

6. Sewage Treatment Operations Report - *Chris Lefebvre*

Chris stated the WWTP met all permit limits for the month of November. He stated the biosolids dryer is up and running. He also explained that the ammonia level is up because they can't biologically remove both ammonia and phosphorus at the same time. Ammonia level is still within permit limits.

7. Construction and Maintenance Report - *Shane Kohnen*

The Commission reviewed the monthly report. Shane stated he had nothing else to add. We are currently in winter operation.

8. Directors Report - *Joel Lemke*

Joel explained to the Commission that he has a memo in the Public Works packet for the meeting tonight regarding an ordinance amendment that would clarify future utility extension projects in the Village of Park Ridge. More details regarding this will be brought back to the Commission next month.

9. Adjournment.

Motion made by Ray Schmidt to adjourn the meeting.

Ayes all. Nays none. Motion carried.

Meeting Adourned: 12:18 P.M.

REPORT TO THE JANUARY 12, 2026
MEETING OF THE BOARD OF WATER AND SEWERAGE COMMISSIONERS

WATER DEPARTMENT

FINANCES:

Bank balance as of December 1, 2025

\$ 2,811,121.57

Bank deposits recorded in December 2025

\$ 5,523,491.25

\$ 8,334,612.82

CHECKS ISSUED DECEMBER 2025:

60742	Mae Nachman	Salary	64.41
60743	Community Foundation of Central WI	Employee Contribution	10.00
60744	United Way Of Portage County	United Way	63.69
60746	Baker Tilly Virchow Krause LLP	Rate Study	4,590.00
60747	Central States H & W Fund	Health Insurance Premiums	46,787.17
60748	Vestis	Rugs	46.82
60749	AnSer	After hours answering services	195.00
60751	Aspirus Medical Group, Inc.	Wellness Program	109.00
60754	Baker Tilly Virchow Krause LLP	2025 Audit	204.91
60755	Capital OneTrade Credit	Supplies #1666325984	403.12
60756	City Of Stevens Point	Retirement, insurance, phone & fuel, workers comp premiums	22,411.63
60759	Employee Resource Center Inc	Monthly EAP Fees	50.83
60761	H&S Protection Systems Inc	Annual Alarm Monitoring-Water Office	683.16
60765	Metron-Farnier LLC	Meters & shipping	35,913.54
60766	NAPA	Cleaning squeegee for truck #1	21.99
60769	Plaski Disposal	Dumpster Services	150.00
60772	Springbrook Holding Company LLC	Civic pay transaction fees	1.00
60773	Summit Fire Protection	Annual fire extinguisher inspection	677.85
60774	U.S. Postal Service	Annual Rental PO Box 242	244.00
60775	WI Rural Water Assoc	Membership Renewal	50.00
60779	INFOSEND INC	Statement & notice printing	2,696.15
60780	Lou's Gloves	Nitrile Gloves	424.00
60783	Mastercard	Charger, office supplies, Well 11 maintenance, Conference expenses	2,289.25
60784	Point Supply	Shop supplies	86.85
60786	Vestis	Rugs	46.82
60788	WI Central	Water pipe line lease	100.00
60791	Ferguson Waterworks #1476	Meter gaskets	90.00
60792	First Supply LLC -Plover	Inventory	137.64
60793	Community Foundation of Central WI	Green Circle Joel Lemke	10.00
60794	United Way Of Portage County	United Way	63.69
60797	H&S Protection Systems Inc	Remove P. Filtz from alarm panel	72.00
60800	Securian Financial	MN Life Insurance Policy #002832L	187.73
60802	Stevens Point Treasurer	2025 Property Taxes 1909 Cypress, #2408.32.3004.02	2,930.90
60803	Teamsters Union Local 662	Union dues	1,731.00
60804	Angela Whelan	Refund Check 004740-000, 2101-A Wyatt Ave	72.22
60805	City Of Stevens Point	Sept 2025 Concrete, December Asphalt, December Concrete	6,992.00
60807	Dolce Digital Imaging	Meter cards	45.00
60808	Elexco	Wellington Ct. Work	7,760.00
60809	Fastenal Company	PPE	214.63
60810	Hawkins Inc	Chemicals	3,093.88
60811	Heartland Business Systems, LLC	Monthly billing for December	199.56
60814	Petty Cash	Postage, Supplies, Candy for office	82.63
60815	Mastercard	Parts for truck #1, Aluminum fitting, AWS for GIS server, Water Dept tools for jobs & supplies, Laptop for Audra B., Background check -Audra B.	1,622.10
60816	WI Department of Natural Resources	DNR Certification-Alex Bula	50.00
60817	WRWA	WRWA Training Class - Alex Bula	625.00
60818	3K Custom Apparel	Jackets embroidered	9.00
60820	Central States H & W Fund	Health Insurance Premiums	29,804.17
60822	Ferguson Waterworks #1476	Meter gaskets	49.25
60824	Jerry's Small Engine Supply Co.	Job tools	971.39

60825	NAPA	Paint for shop	68.42		
60828	Vestis	Rugs	46.82		
60829	Community Foundation of Central WI	Employee Contribution	10.00		
60830	United Way Of Portage County	United Way	145.00		
60831	American Welding & Gas Inc	Utility Garage Supplies	151.35		
60832	AnSer	After hours answering service	195.00		
60833	Capital OneTrade Credit	Tools & supplies	152.21		
60834	City Of Stevens Point	2025 Street Improvement Project #25-102-Sept, 2025	258,155.91		
		Street Improvement Project #25-102-November, 2025			
		Street Improvement Project #25-101			
		November,Workers Comp Premiums			
60835	Fastenal Company	PPE - Gloves	154.19		
60837	John Fabick Tractor Co	Back hoe #8 parts	508.81		
60838	Plaski Disposal	Dumpster services	75.00		
60842	Strand Associates Inc	Professional Services Well 12	9,755.02		
60843	Nicole Wottreng	Refund Check 039247-000, 3933 Doolittle Dr #12	52.80		
60844	Wroblewski Concrete Construction, LLC	Concrete rings	1,512.00		
	Transfer	Transfer of funds	1,463.49		
	Business Tax Fee	Business Tax Fee	10.00		
	Bank Fees	Bank Fees	1,308.54		
	WPS	Utility Charges	21,283.86		
	Payroll	Payroll	94,976.28		
	IRS & DOR PR Tax	Payroll Taxes	42,773.50		
	Verizon Cell & iPad Charges	Phone & iPad Charges	673.72		
	DOR Garnishment	Garnishment	9.66		
	HRA Admin Fees	Admin Fees	30.00		
	TOTAL EXPENSES LISTED			\$ 533,760.81	\$ 533,760.81
	BALANCE ON HAND DECEMBER 31, 2025				\$ 7,800,852.01
		Balance on Hand			\$ 7,800,852.01
		Plus uncleared checks			\$ 304,185.66
		Less checks previously written clearing this month			\$ 40,824.58
		Ending Cash Balance matching Bank Statements			\$ 8,145,862.25

REPORT TO THE JANUARY 12, 2026
MEETING OF THE BOARD OF WATER AND SEWERAGE COMMISSIONERS
SEWAGE DEPARTMENT

FINANCES:

Bank Balance as of December 1, 2025
 Bank Deposits recorded in December 2025

\$	6,722,670.93
\$	2,840,550.17
\$	9,563,221.10

CHECKS ISSUED IN DECEMBER 2025:

60745	Andritz Separation Inc.	Biosolids dryer firmware update	7,016.00
60746	Baker Tilly Virchow Krause LLP	Rate Study	4,590.00
60747	Central States H & W Fund	Health Insurance Premiums	21,143.18
60748	Vestis	Rugs & laundry services	219.13
60750	Aquachem of America Inc.	Aquachem	15,180.00
60751	Aspirus Medical Group, Inc.	Wellness Program	109.00
60752	Atlas Copco Compressors LLC	Parts & labor	2,624.86
60753	Badger Laboratories, Inc.	Nitrate testing	60.00
60754	Baker Tilly Virchow Krause LLP	2025 Audit	151.34
60756	City Of Stevens Point	Retirement, insurance, phone & fuel, workers comp premiums	10,700.02
60757	Dakota Electric Services Inc	Troubleshoot Blower Motor	195.00
60758	Ben Edwards	Boot & winter coat allowance-Ben Edwards	368.14
60759	Employee Resource Center Inc	Monthly EAP Fees	26.91
60760	First Aid Corp	Gloves	488.15
60761	H&S Protection Systems Inc	Annual Alarm Monitoring-Old water garage	2,305.20
60762	Harter's Fox Valley Disposal	Dumpster Services	702.63
60763	Hawkins Inc	Chemicals	585.55
60764	Brad Kucharzak	Jean allowance	168.75
60767	NCL of Wisconsin Inc	Lab Supplies	675.26
60768	Pace Analytical Services Inc	4th Quarter Mercury Samples	434.60
60770	Security Fence & Supply Co Inc	Security gates & fencing	40,769.00
60771	Spee Dee Delivery Service Inc.	Shipping Charges	20.47
60773	Summit Fire Protection	Annual fire extinguisher inspection	2,259.52
60777	Atlas Copco Compressors LLC	New VFD for blower	34,715.95
60778	H&S Protection Systems Inc	Annual Alarm Monitoring - Sewage Lab	636.96
60781	Marathon County Treasurer/Solid Waste	Sludge hauling	8,960.66
60782	MC Tools and Repair LLC	Supplies	1,269.72
60783	Mastercard	Office supplies, winter jackets/bibs	399.97
60785	Staab Construction Corp	UV Replacement	164,842.00
60786	Vestis	Rugs & laundry services	219.13
60787	WDATCP	Water lab license renewal	408.00
60789	Wood Street Rental LLC	Material lift	84.00
60790	Airgas USA, LLC	Nitrogen	2,481.12
60795	AT&T	Phone charges	44.98
60796	First Aid Corp	Gloves	112.00
60798	Mulcahy Shaw Water Inc	Wash press gaskets	340.67
60799	RJB Property Management LLC	Refund Check 020264-001, 2101 Wyatt Ave.	5.67
60800	Securian Financial	MN Life Insurance Policy #002832L	70.28
60801	Spee Dee Delivery Service Inc.	Shipping charges	23.00
60804	Angela Whelan	Refund Check 004740-000, 2101-A Wyatt Ave.	130.53
60805	City Of Stevens Point	Dec 2025 Concrete & asphalt, Sept 2025 Concrete	8,541.00
60806	County Materials Corp	Lateral replacement 2147 Strongs	844.00
60810	Hawkins Inc	Chemicals	561.05
60811	Heartland Business Systems, LLC	Monthly billing for December	199.56
60813	NCL of Wisconsin Inc	Lab supplies	950.45
60815	Mastercard	Supplies, AWS for GIS Server, pump assembly & tubing, ladder, parts for truck #30, tools, light bulbs, heating boiler cert, boiler registration renewal, AWS for IT Pipes, Laptop for Audra B., PPE L. Betro	5,162.85
60816	WI Department of Natural Resources	DNR Certification-Jonathan Hankins	50.00
60817	WRWA	WRWA Training Class - J. Hankins	625.00
60818	3K Custom Apparel	Jackets embroidered	18.00
60819	Brenntag Great Lakes LLC	Chemicals	15,582.49
60820	Central States H & W Fund	Health Insurance Premiums	21,143.18
60821	CT Laboratories	Biosolids Analysis	209.00
60823	Hach Company	Chemicals	515.96
60827	Staab Construction Corp	Condenser repair	2,113.00
60828	Vestis	Rugs & laundry services	219.13

**REPORT TO THE JANUARY 12, 2026
MEETING OF THE BOARD OF WATER AND SEWERAGE COMMISSIONERS**

STORM WATER DEPARTMENT

FINANCES:

Bank balance as of December 1, 2025

Bank deposits recorded in December 2025

\$	288,719.13
\$	3,339,921.50
\$	3,628,640.63

CHECKS ISSUED DECEMBER 2025:

60747	Central States H & W Fund	Health Insurance Premiums	11,014.65	
60751	Aspirus Medical Group, Inc.	Wellness Program	109.00	
60754	Baker Tilly Virchow Krause LLP	2025 Audit	151.09	
60756	City Of Stevens Point	Retirement, insurance, phone & fuel, workers comp premiums	5,003.61	
60759	Employee Resource Center Inc	Monthly EAP Fees	11.96	
60773	Summit Fire Protection	Annual fire extinguisher inspection	677.84	
60776	Zorn Compressor & Equipment	Parts for truck #33	924.23	
60783	Mastercard	Office supplies	26.02	
60799	RJB Property Management LLC	Refund Check 020264-001, 2101 Wyatt Ave.	33.09	
60800	Securian Financial	MN Life Insurance Policy #002832L	45.50	
60805	City Of Stevens Point	Dec 2025 Concrete & asphalt, Sept concrete	11,684.00	
60811	Heartland Business Systems, LLC	Monthly billing for December	199.56	
60815	Mastercard	Laptop for Audra B., AWS for GIS Server, PPE-J. Hankins	1,455.92	
60816	WI Department of Natural Resources	DNR Certification-Lucas Betro	50.00	
60817	WRWA	WRWA Training Class - Lucas Betro	625.00	
60818	3K Custom Apparel	Jackets embroidered	18.00	
60820	Central States H & W Fund	Health Insurance Premiums	11,014.65	
60826	Safe-Way Bus Transit Inc.	CDL Test- L. Betro	200.00	
60834	City Of Stevens Point	2025 Street Improvement Project #25-102 September & November, 2025 Street Improvement Project #25-101 November, Workers Comp Premiums	153,873.13	
	Bank Fees	Bank Fees	1,308.52	
	Verizon	iPad & cell phone charges	498.17	
	Transfer	Transfer of funds	9,938.17	
	Payroll	Payroll	16,896.51	
	IRS	Payroll Taxes	1,778.20	
	WPS	Monthly Utility Charges	342.27	
	TOTAL OF EXPENSES LISTED		\$ 227,879.09	\$ 227,879.09
	BALANCE ON HAND DECEMBER 31, 2025			\$ 3,400,761.54

	Balance on Hand		\$ 3,400,761.54
	Plus uncleared checks		\$ 167,282.78
	Less checks previously written clearing this month		\$ (5,105.97)
	Ending Cash Balance matching Bank Statements		\$ 3,562,938.35

REPORT TO THE JANUARY 12, 2026
MEETING OF THE BOARD OF WATER AND SEWERAGE COMMISSIONERS

FIBER (COMMUNITY AREA NETWORK)

FINANCES:

Bank balance as of December 1, 2025		\$ 370,720.91
Bank deposits recorded in December 2025		\$ 140.27
		\$ 370,861.18

CHECKS ISSUED DECEMBER 2025:

60812	Millennium	Fiber optic cable tag	480.37	
			\$ 480.37	\$ 480.37
		TOTAL OF EXPENSES LISTED		\$ 370,380.81
		BALANCE ON HAND DECEMBER 31, 2025		\$ 370,380.81
		Balance on Hand		\$ 370,380.81
		Plus checks written after the end of this month		\$ -
		Plus uncleared checks		
		Less checks previously written clearing this month		
		Ending Cash Balance matching Bank Statements		\$ 370,380.81

**City of Stevens Point
Department of
Public Utilities &
Transportation**



**Joel C Lemke
Director
Phone: 715-345-5266
jlemke@stevenspoint.com**

January 8, 2026

MEMO

RE: Water Supply Service Area Plan (NR 854)

Commissioners,

Our January agenda lists a public hearing for comments on the Water Supply Service Area Plan that we had created by Ruekert-Mielke. This plan requires that we provide an opportunity for public comment. We have listed the plan on the website as and put a public hearing on this agenda for those opportunities.

Since we are not a community who draws water from the great lakes basin, this plan will not be reviewed or approved by the DNR. The DNR has informed me that they will not request or require a copy of the document. State Statutes simply require it to be created.

The document provided is in draft form. We will take public comment, if any, into consideration and return the document with staff thoughts and corrections.

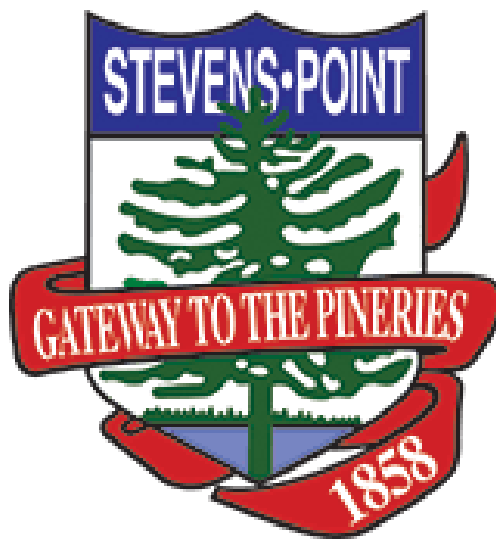
No action is needed at the January Commission meeting, just an opportunity to comment from the public and from the Commission.

Best Regards,

A handwritten signature in black ink that reads "Joel Lemke". The signature is written in a cursive, flowing style.

Joel Lemke
Director

Draft 2025 Water Supply Service Area Plan



Draft 2025 Water Supply Service Area Plan *December 11, 2025*

PREPARED FOR:
City of Stevens Point Water Utility
300 Bliss Avenue
Stevens Point, WI 54481

PREPARED BY:
Ruekert & Mielke, Inc.
W233 N2080 Ridgeview Parkway
Suite 300
Waukesha, WI 53188



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I. INTRODUCTION

In June of 2024, Wisconsin Administrative Code (WAC) NR 854 was released, requiring many public water utilities to create water supply service area plans. This requirement applies to public water systems that withdraw from the waters of the state and that serve a population of 10,000 or more. Water systems are required to have a Water Supply Service Area Plan (WSSAP) prepared before the end of the year 2025. In addition to preparing a WSSAP, a water system is required to obtain approval from the Wisconsin Department of Natural Resources (WDNR) if either of the following conditions apply:

- A general or individual permit is needed
- The water system is requesting a new or increased diversion of Great Lakes water

The City of Stevens Point (City) has a population of about 26,619 and is required to prepare a WSSAP; however, neither of the above criteria apply and therefore the Utility is not required to obtain WDNR approval. The City of Stevens Point Water Utility (Utility) withdraws its water from the waters of the state with its five groundwater wells; however, the Utility does not divert Great Lakes water nor plans to do so in the future. Therefore, this WSSAP is prepared to meet the requirements of NR 854.

A. Planning Period

This WSSAP uses a 20-year planning period and expires in the year 2045. This plan is required to be reviewed at least every 5 years and updated as necessary (NR 854.05). Current and future water needs were evaluated over a 20-year planning period with consideration given to projected future water needs extending to the year 2045.

B. Scope

This plan uses a systematic approach to introduce and expand basic planning concepts. A review of existing water system facilities is summarized in Chapter II. Population, community growth, and water consumption projections serve as the foundation for evaluating and identifying recommended improvements to the system and are introduced in Chapter III. The assumptions and conclusions presented in Chapter III were used to develop projections of water requirements that are presented in Chapter IV. The developed water requirements are used in Chapter V to summarize the evaluation of the water system supply and storage needs.

Because needs change with time, comprehensive planning is a continuous function; therefore, the longer-term projections and improvements discussed in this report should be periodically reviewed, reevaluated, and modified, as necessary, to ensure the adequacy of future planning efforts. Proper future planning will help ensure that system expansion is coordinated and constructed in the most effective manner.

C. Study Limitations and Assumptions

The following limitations and assumptions underlie the work elements of this plan:

1. The primary purpose of this WSSAP is to develop a system plan to guide the extension of adequate water supply services by the Utility to existing and probable future development within the planned service area. This WSSAP includes an analysis of supply facilities such as wells and well pumps, but it does not include an analysis of distribution facilities, such as water mains and booster pumping.

2. Recommendations resulting from the planning efforts are to be consistent with current federal, state and local regulations regarding facility design.
3. The investigation is limited to a review of existing available water quality data and does not include any sampling, laboratory work, or pilot testing.

DRAFT

II. EXISTING WATER SYSTEM FACILITIES

This chapter presents a summary of the existing water system components of the Utility water system. The various facilities operated and maintained by the Utility include:

- Seven groundwater wells, one of which is temporarily offline and one of which is not yet operational
- Two elevated water storage tanks
- A network of transmission and distribution water mains

The general location and layout of the water system facilities are illustrated in Figure II-1 and a schematic is shown in Figure II-2.

A. Service Area

The service area of the Utility includes the entire municipal boundary of the City. There are plans expand the water service area beyond the current boundaries of the City, as described in the “East Park Commerce Center Water System Study” that was done by Ruekert & Mielke, Inc. in July 2025 (the EPCC Study). The existing and planned service areas are shown in Figure II-1. The existing and planned service areas are completely within the Mississippi River Basin.

B. Water System Pressure Zones

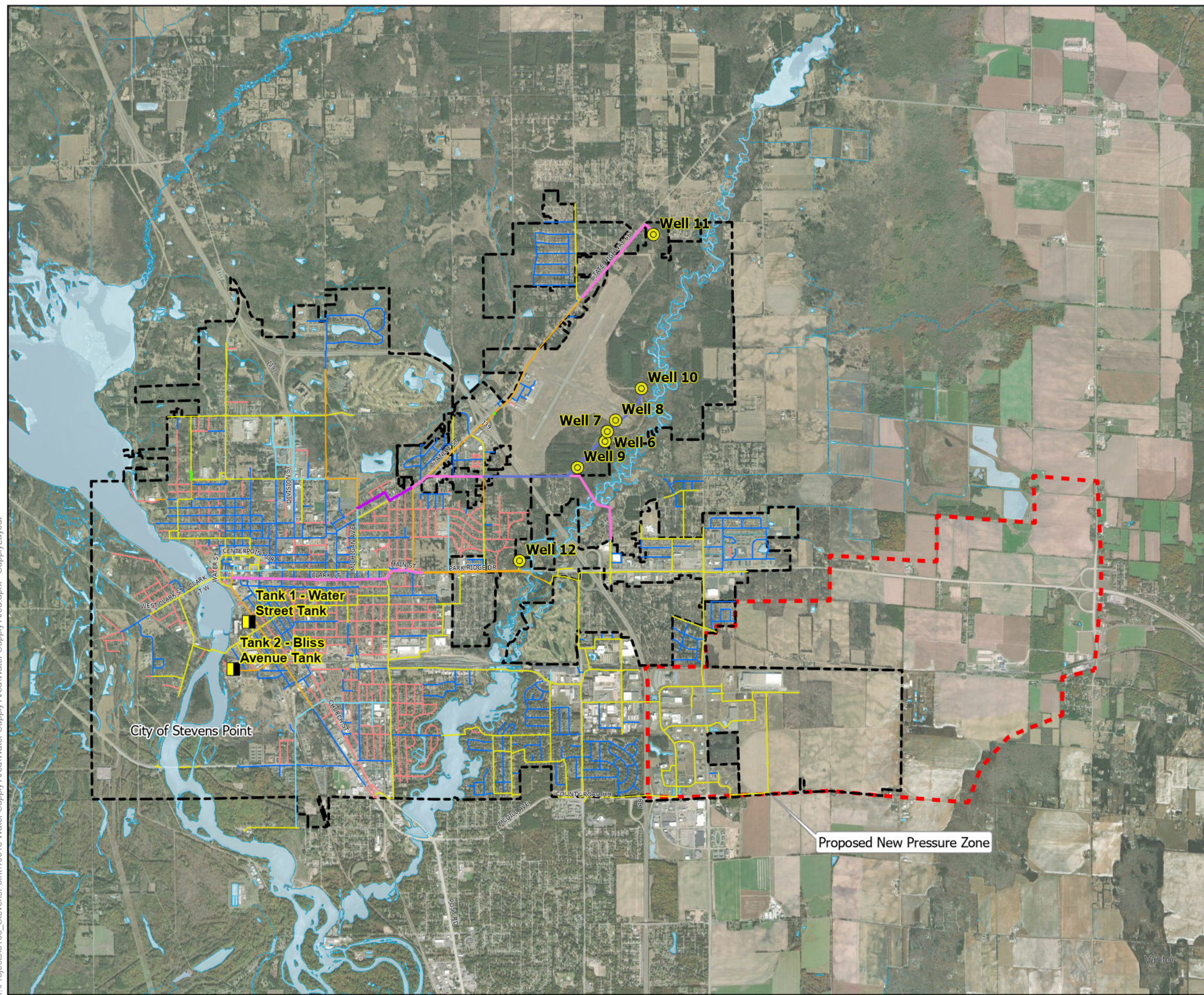
The Utility’s water distribution system currently consists of one pressure zone, but a new pressure zone is planned to be developed in the future, as illustrated in Figure II-1, as described in the EPCC Study. Because the City boundaries encompass an area of varied elevations, the future boosted pressure zone will be necessary to provide adequate distribution system pressures as the water system expands to the east and to the north.

The main pressure zone is currently the only pressure zone, but a new pressure zone is planned to be developed, as described in the EPCC Study. The ground elevations currently served by the main pressure zone range from approximately 1,068 ft to 1,147 ft. The future pressure zone, shown in Figure II-1, is planned to develop starting at the East Park Commerce Center and will serve areas of higher elevation east of the main pressure zone. The elevations that are planned to be served by the future pressure zone range from about 1,099 ft to 1,189 ft. This boosted pressure zone is planned to include an elevated storage tank (EST) and will be supplied by several booster stations.

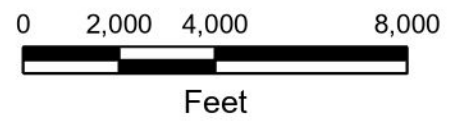


Figure II-1
Existing Water System
Water Supply Service Area Plan

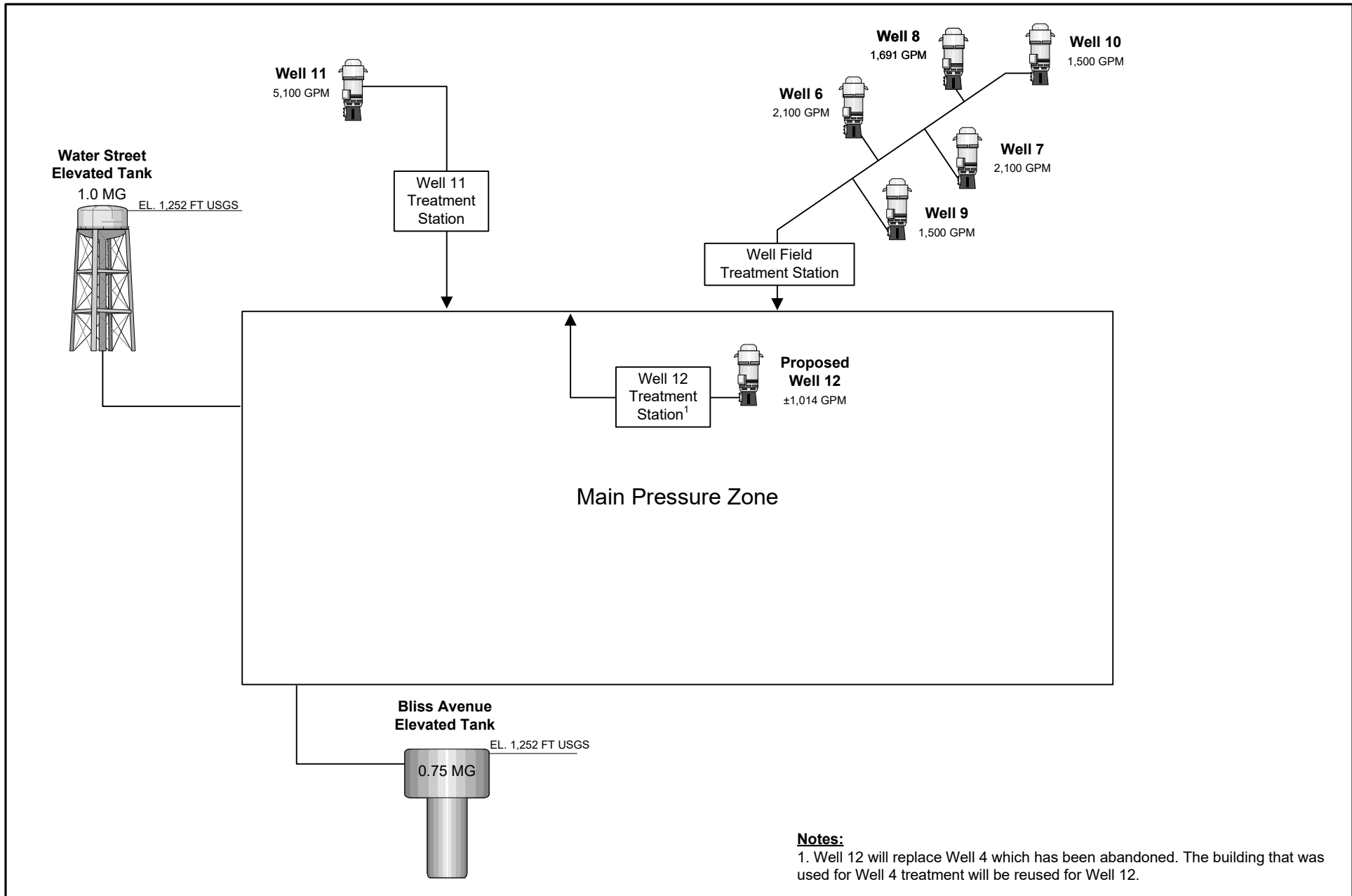
City of Stevens Point
Portage County, Wisconsin



- Existing Wells
- Existing Tanks
- 6" and Less
- 8"
- 10"
- 12"
- 14"
- 16"
- 18"
- 20"
- 24"
- 30" - 42"
- Unknown
- Proposed Pressure Zone Boundary
- City Limits



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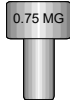
Notes:
 1. Well 12 will replace Well 4 which has been abandoned. The building that was used for Well 4 treatment will be reused for Well 12.

LEGEND



900 GPM

WELL AND PUMP
 RATED CAPACITY (GPM)



ELEVATED TANK
 VOLUME (MG) AND OVERFLOW
 ELEVATION (FEET)



Existing Water System Schematic

City of Stevens Point
 Portage County, WI
 December 2025

C. Water Supply Facilities

The City of Stevens Point Water Utility has seven groundwater wells, as shown in Table II-1, five of which are currently operational. The wells that are currently in operation (Wells 7-11) have a total supply capacity of 13.7 million gallons per day (MGD). The annual well pumpage is shown in Table II-2. Pumpage from each well is measured using flow meters at each well discharge.

Wells 6 through 10 comprise of a well field that pumps to a common treatment station. Well 6 has temporarily been taken offline until filtration equipment for manganese removal is provided. Wells 10 and 11 are radial collector wells that each have multiple pumps.

Well 12 was constructed in 2024 and is not yet in full operation. Well 12 was constructed to replace Well 4 which was deactivated in 2019 and abandoned. The Well Site Investigation Report (WSIR) for Well 12 was approved by the WDNR in 2020. The well construction was approved in 2022 and completed in 2024. The Utility has plans to construct new iron and manganese removal facilities by the end of 2026 within the building that was previously used for Well 4.

D. Water Quality and Treatment Methods

Treatment methods used at each well are also summarized in Table II-1. Wells 6 through 11 include polyphosphate injection for corrosion control, disinfection with gas chlorine, and fluoride injection. Well 11 is also treated to remove organics, iron, and manganese. The organics removal process includes coagulation, flocculation, and sedimentation. The iron and manganese removal process includes greensand filtration. Iron and manganese sample results from Wells 6 through 12 are shown Table II-3.

Well 6, which is currently offline, is planned to be equipped with filters for iron and manganese removal. Well 12, which is planned to be put into operation by the end of 2026, will also be equipped with filters to remove iron and manganese. The treatment facilities will be housed within the building that was previously used for Well 4, which was abandoned in 2019.

Water samples from Wells 11 and 12 have low levels of perfluoro- and polyfluoroalkyl substances (PFAS). The PFAS concentrations found in sampling are lower than any existing or proposed health advisory levels and maximum contaminant levels (MCL), as shown in Table II-4. The Utility should continue to monitor PFAS levels to ensure that they are stable. Unless PFAS concentrations increase in future sampling, treatment to remove PFAS will likely not be needed.

Table II-1: Wells and Treatment Facilities

Well Characteristic	Well Field					Well 11	Well 12 (Planned)
	Well 6 (Offline) ¹	Well 7	Well 8	Well 9	Well 10		
WI Well ID	BG711	BG712	BG713	BG714	LG796	WQ159	ACA566
Year Constructed	1967	1967	1967	1968	1994	2010	2024
Depth	90 ft	80 ft	85 ft	80 ft	87 ft	106 ft	83 ft
Diameter	30 in	30 in	30 in	30 in	15 in	236 in	36 in
Static Water Level	19.3 ft	19.1 ft	21.9 ft	20.2 ft	25.6 ft	26.5 ft	33.0 ft
Pump Level	26.3 ft	23.9 ft	30.6 ft	30.7 ft	30.7 ft	39.1 ft	49.0 ft
Pump Type	Vertical Turbine	Vertical Turbine	Vertical Turbine	Vertical Turbine	Vertical Turbine	Vertical Turbine	-
Capacity	2,100 gpm	2,100 gpm	1,691 gpm	1,500 gpm	4,200 gpm	5,100 gpm	1,014 gpm
Motor Size	200 hp	200 hp	200 hp	200 hp	150/150 ²	75/75/150 ²	-
Treatment Methods	Well 6 (Offline) ¹	Well 7	Well 8	Well 9	Well 10	Well 11	Well 12 (Planned)
Polyphosphate Injection (Corrosion Control)	X	X	X	X	X	X	X ³
Gas Chlorination (Disinfection)	X	X	X	X	X	X	X ³
Fluoridation	X	X	X	X	X	X	X ³
Ultraviolet Radiation Disinfection						X	
Coagulation/Flocculation/ Sedimentation (Organics Removal)						X	
Greensand Filtration (Iron/Manganese Removal)						X	X ³

Notes:

1. Well 6 is temporarily offline and will be on standby until filtration equipment can be provided for manganese removal.
2. Well 10 has two well pumps each with 150 hp motors. Well 11 has 3 well pumps, two with 75 hp motors and one with 150 hp.
3. Treatment method is planned to be provided at Well 12.

Table II-2: Annual Well Pumpage Records

Year	Annual Withdrawal (MGY)							
	Well 4 (Abandoned)	Well 6 (Offline)	Well 7	Well 8	Well 9	Well 10	Well 11	Total
2017	77.0	2.6	83.9	317.4	340.7	19.9	987.4	1,828.9
2018	179.3	1.3	90.4	218.2	457.9	19.3	1,030.7	1,997.2
2019	0.5	13.0	93.6	254.9	509.0	1.9	1,040.9	1,913.8
2020	0.4	0.4	41.2	428.3	436.7	2.2	1,043.8	1,953.1
2021	-	0.0	52.4	410.3	607.4	3.9	1,044.4	2,118.5
2022	-	0.0	163.6	540.0	759.5	2.0	1,052.2	2,517.4
2023	-	0.7	254.0	445.6	631.0	41.5	981.1	2,353.9
2024	-	0.1	233.4	464.1	694.4	0.4	1,050.2	2,442.7

Table II-3: Raw Water Iron and Manganese Concentrations. Exceedances are shown red.

Well	Sample Date	Iron (mg/L) ¹	Manganese (mg/L) ¹
Well 6	3/17/1999	0	0.394
Well 7	3/17/1999	0	0.465
Well 8	3/17/1999	0.018	0.005
Well 9	3/17/1999	0	0
Well 10	3/14/2017	0	0.032
Well 11	12/11/2025	0.06	0.085
Well 12	12/3/2024	0.77	0.31

Notes:

1. Secondary Maximum Contaminant Levels for Iron and Manganese are 0.3 mg/L and 0.05 mg/L, respectively.

Table II-4: Well 12 PFAS Concentrations

PFAS Chemical Name	MCL, ppt		Well 11 (3/10/2023)	Well 12 (11/22/2024)
	Current	Future ²		
PFOA	-	4	1.2	2.0
PFOS	-	4	1.3	2.4
PFHxs	-	10	0.7	2.3
HFPO-DA (GenX)	-	10	0.0	0.0
PFNA	-	10	0.0	0.0
PFBS	-	-	1.5	1.5
Combined PFOA & PFOS	70	-	2.5	4.4
Mixture of two or more: PFHxS, PFNA, HFPO-DA and PFBS ¹	-	1.0	0.1	0.2

Note:

ppt = Parts per trillion or ng/L

1. Hazard index is calculated per EPA requirements, as follows:

$$\text{Hazard Index (1 unitless)} = \left(\frac{[\text{HFPO-DA}_{\text{ppt}}]}{[10 \text{ ppt}]} \right) + \left(\frac{[\text{PFBS}_{\text{ppt}}]}{[2000 \text{ ppt}]} \right) + \left(\frac{[\text{PFNA}_{\text{ppt}}]}{[10 \text{ ppt}]} \right) + \left(\frac{[\text{PFHxS}_{\text{ppt}}]}{[10 \text{ ppt}]} \right)$$

2. More stringent MCLs for PFAS are proposed by the EPA to be effective by Fall 2026. Water systems that exceed any of the MCLs need to provide treatment solutions by 2029.

E. Water Storage

The Utility operates two ESTs which are located throughout the water distribution system. The combined storage capacity of all the facilities is 1,750,000 gallons. One EST is a double ellipsoid tank and the other is a composite tank. Both tanks have an overflow elevation of 1,252 ft. The elevated facilities are identified as follows:

- Water Street (Tank #1, Double Ellipsoid) (Table II-5)
- Bliss Avenue (Tank #2, Composite) (Table II-6)

There is also a third EST that is planned to be constructed in the future pressure zone, as described in the EPCC Study. This EST is planned to be a 1-MG composite storage tank with an overflow elevation of 1,285 ft.

Table II-5: Water Street EST

Capacity	1,000,000 gallons
Year constructed	1956
Type	Ellipsoid
Construction material	Steel
Overflow elevation	1,252 ft
Diameter	75 ft
Head range	35 ft
Height to overflow	168 ft



Table II-6: Bliss Avenue EST

Capacity	750,000 gallons
Year constructed	2004
Type	Composite
Construction material	Steel & Concrete
Overflow elevation	1,252 ft
Diameter	Varies
Head range	40 ft
Height to overflow	172 ft



F. Booster Pumping Facilities

The Utility currently does not have any booster pumping facilities; however, there are plans to construct three booster stations with the development of the future pressure zone. Preliminary locations and sizing for these booster stations are discussed in the EPCC Study.

G. Inventory of Alternative Sources

The Utility currently has seven groundwater wells. There are currently no plans to abandon any of the wells or seek an alternative supply. However, if the need for an alternative supply arises due to well contamination or failure, the most feasible option to provide an alternative water supply would be to drill one or more new wells.

Another option that was considered for alternative water supply is establishing a wholesale connection with a neighboring water system; however, the City of Stevens Point is the largest municipality in the area and other nearby water systems would likely not have the capacity to provide large amounts of drinking water to the Utility. While a wholesale connection would be unlikely to have the capacity to be a primary source of drinking water for the City, it could be a potential option to serve as an emergency or supplemental source if the need arises. However, the City has sufficient redundancy in its water supply with seven wells and will likely not serve to benefit from an emergency connection.

III. POPULATION AND COMMUNITY GROWTH

This chapter summarizes the planning assumptions made regarding the City. The population and community growth discussed here will be used as the basis for the service area water requirement projections presented in Chapter IV.

A. Population and Population Density

There is generally a close relationship between a community's population and total water consumption volumes. As a community's population may fluctuate up or down, it is anticipated that the water sales will also fluctuate. Therefore, future water sales can be expected to generally reflect future changes in service area population. Similarly, commercial and public water consumption will also tend to vary proportionately with the growth of the community.

Table III-1 summarizes historical population data and estimates of future population for the City. According to the Wisconsin Department of Administration (DOA), the 2024 population of the City was approximately 26,619. Comparatively, the 2020 census population was 25,666. The population has, therefore, grown in recent years having seen an estimated increase of approximately 3.7% since the 2020 census. Per the United States Census Bureau QuickFacts, the average household size is 2.06.

Table III-1 includes population projections from both the DOA and the from the City Planning Department. According to DOA projections, the population of the City is projected to decrease from 26,619 in 2024 to 22,454 in 2045. However, the population projections provided by the City Planning Department predict that the population will increase to **27,619** by 2045. The population projections provided by the City Planning Department, rather than the DOA, are used in projecting future water demands.

B. Utility Service Area

The service area of the water system encompasses the municipal boundaries of the City and are shown in Figure II-1. There are about 32 water customers outside of the City's municipal boundary: eight in the Village of Whiting and 24 in the Town of Hull. With the planned development of a new pressure zone, the Utility plans to expand water service beyond its current service area to encompass future developments to the east and northeast.

C. Projected Growth Areas

Planned growth areas are shown in Figure III-1. The majority of proposed developments are planned in the future pressure zone and are described in the EPCC Study. The developments described in the EPCC Study include single- and multi-family residential, commercial, public authority, and industrial developments. There is another residential development planned near North Brilowski Road.

For water demand projections, sales of water to the existing service area are assumed to be correlated with population change. Estimated future water demands to the projected growth areas are taken from the EPCC Study and are assumed to be additive to projected sales to the existing service area

D. Summary

This chapter summarizes the primary assumptions regarding future growth within the Utility service area. The needs and characteristics of the service area will have a direct impact on the need for the expansion of water system facilities. Therefore, the conclusions discussed in this

chapter are used as a primary basis for projecting future water needs, evaluating the adequacy of existing water system facilities, and determining what water system improvements are needed to maintain an adequate level of service as population increases.

Table III-1: Population Trends & Projections

Year	Historical Population			
	Population	Change		
1970	23,479	---		
1980	22,970	-2.2%		
1990	23,002	0.1%		
2000	24,551	6.7%		
2010	26,717	8.8%		
2020	25,666	-3.9%		
2024	26,619	3.7%		
Year	Projected Population			
	DOA Projections ¹	Change	City Projections ²	Change
2030	24,861	-6.6%	26,869	0.9%
2035	24,124	-3.0%	27,119	-3.0%
2040	23,387	-3.1%	27,369	-3.1%
2045	22,454	-4.0%	27,619	-4.0%

Notes:

1. Projections from the DOA.
2. Preliminary population projections provided by the City Planning Department.

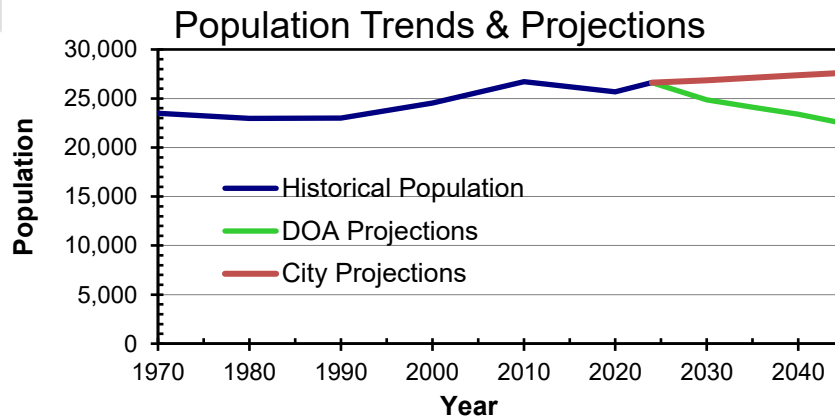
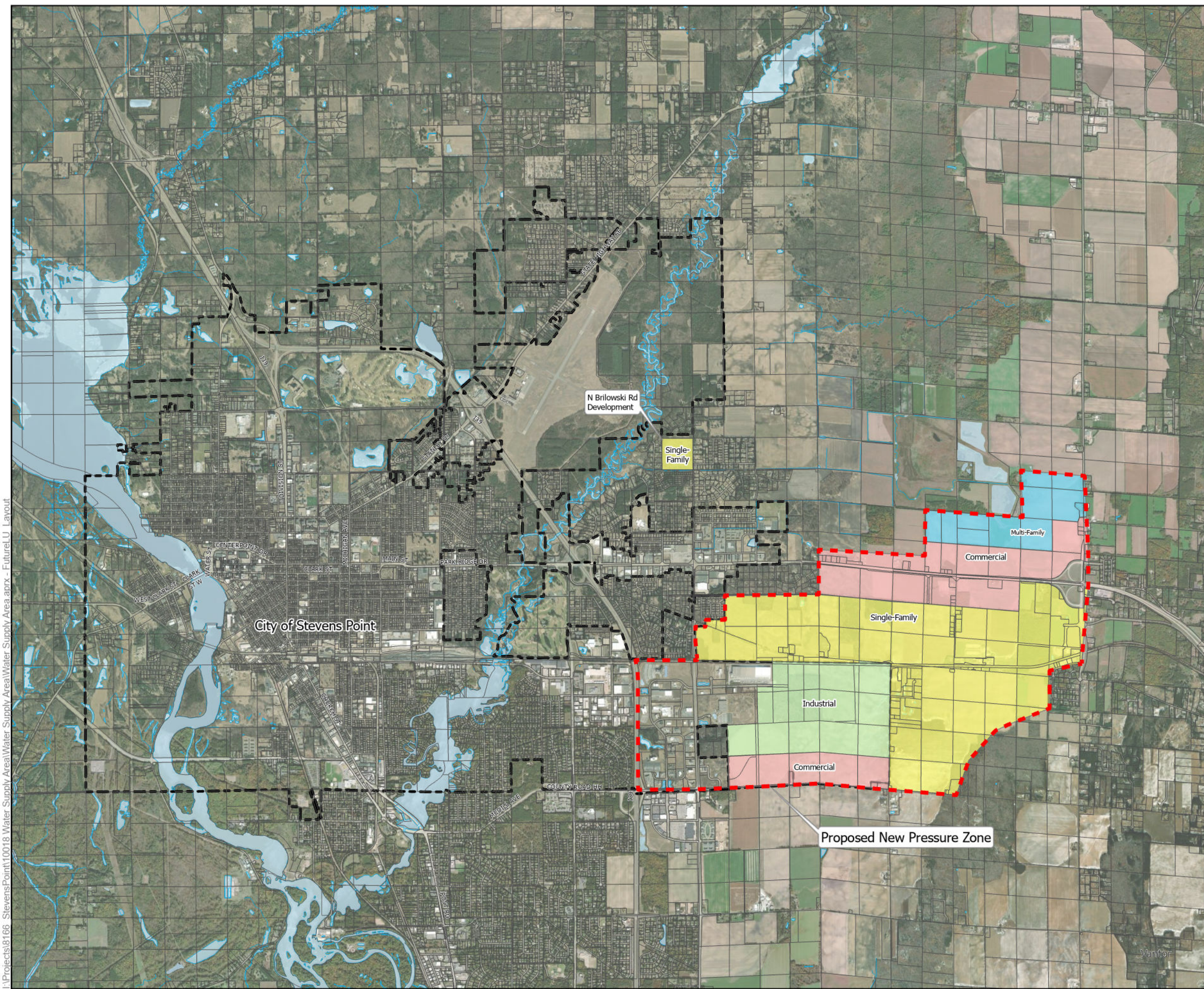


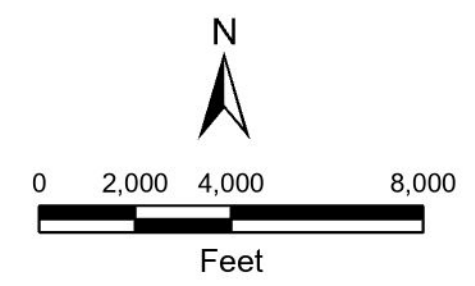


Figure III-1
Proposed Developments

City of Stevens Point
Portage County, Wisconsin



- Single-Family Residential
- Multi-Family Residential
- Commercial
- Industrial
- Proposed Pressure Zone Boundary
- City Limits



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IV. WATER REQUIREMENTS

Projections of customer demands serve as the basis for capital improvements planning. Several standard methods were used in this study to project water supply and storage needs based on estimates of population and community growth. This chapter summarizes the methods used and the results of those projections.

A. Water Consumption History

Water consumption history reported annually to the Wisconsin Public Service Commission (PSC) from 2014 to 2024 was reviewed. A summary of historical water sales and pumpage is provided in Table IV-1. Over the 11-year period, annual water pumpage has fluctuated from a low of 1.8 billion gallons in 2016 to a high of 2.5 billion gallons in 2023. Although water usage has fluctuated both up and down, the overall trend over the past 11 years has generally increased.

A summary of the number of customers in each customer class that is served by the Utility is provided in Table IV-2. Water sales to individual customer classes are summarized in Table IV-3. As shown in the tables, the number of residential and multi-family customers, as well as water sales to these customers, have increased over the past 11 years. The number of commercial customers and sales to commercial customers have remained relatively stable. The number of industrial customers has not changed significantly but sales to industrial customers have increased. Also, the number of public customers remained constant, but sales to public customers have decreased.

As illustrated in Table IV-2 and Table IV-3, residential customers presently account for 84% of the Utility's customers but only approximately 18% of the total sales in 2024. Industrial customers only make up 0.3% of the total number of customers served by the Utility; however, about 60% of all sales were to industrial customers in 2024. This is largely due to the Ahlstrom Paper Mill (formerly the Pixelle Specialty Solutions Paper Mill) which is by far the largest water customer. The paper mill alone accounts for between 40% and 50% of all water sales.

B. Unit Consumption Water Usage

Tables IV-4 through IV-6 show water usage per customer, per acre, and per capita, respectively. The water sales per customer show that industrial customers by far use the highest amount of water, largely due to the paper mill. The water sales per acre are based on existing land use data from the 2005 City of Stevens Point Comprehensive Plan. The water sales per capita are based on annual population for each given year.

C. Ten Largest Water Customers

The ten largest individual water users served by the Utility are shown in Table IV-7. According to billing data, the largest water users served by the Utility include several industrial customers, two commercial customers, and one multi-family customer.

By a significant margin, the largest water customer is the Ahlstrom Paper Mill (formerly the Pixelle Specialty Solutions Paper Mill). With all its meters combined, the paper mill used a total of 1,139 MGY in 2024, resulting in an average daily flow of 3.1 MGD. The paper mill accounts for more than 95% of all industrial water usage and between 40% and 50% of all water usage in the Utility. In the past 5 years, the paper mill's annual water usage has varied from 874 MGY in 2020 to 1,358 MGY in 2022.

Table IV-1: Historical Water Pumpage and Sales

Year	Estimated Population	Total Pumpage (MG)	Total Sales (MG)	Pumpage Sold	Non-Revenue Water	Water Losses	Average Day		Maximum Day		Ratio of Maximum to Average Day Pumpage
							MGD	GPCD	MGD	Date	
2014	27,040	1,896	1,753	92%	8%	6%	5.194	192.1	8.980	July 25	1.73
2015	27,037	1,884	1,734	92%	8%	5%	5.161	190.9	8.417	July 31	1.63
2016	26,895	1,801	1,588	88%	12%	7%	4.933	183.4	8.551	June 22	1.73
2017	26,757	1,826	1,797	98%	2%	6%	5.003	187.0	8.083	July 26	1.62
2018	26,749	1,990	1,944	98%	2%	7%	5.451	203.8	9.586	Aug 17	1.76
2019	26,490	1,909	1,732	91%	9%	10%	5.231	197.5	7.771	Aug 23	1.49
2020	25,666	1,947	1,746	90%	10%	1%	5.333	207.8	9.440	Aug 21	1.77
2021	25,580	2,113	1,697	80%	20%	1%	5.790	226.4	9.550	June 15	1.65
2022	25,954	2,512	2,195	87%	13%	6%	6.883	265.2	10.200	Aug 02	1.48
2023	26,332	2,532	2,271	90%	10%	7%	6.937	263.4	10.940	Jul 07	1.58
2024	26,619	2,439	1,947	80%	20%	17%	6.681	251.0	9.367	Aug 26	1.40

Annual Water Sales and Pumpage

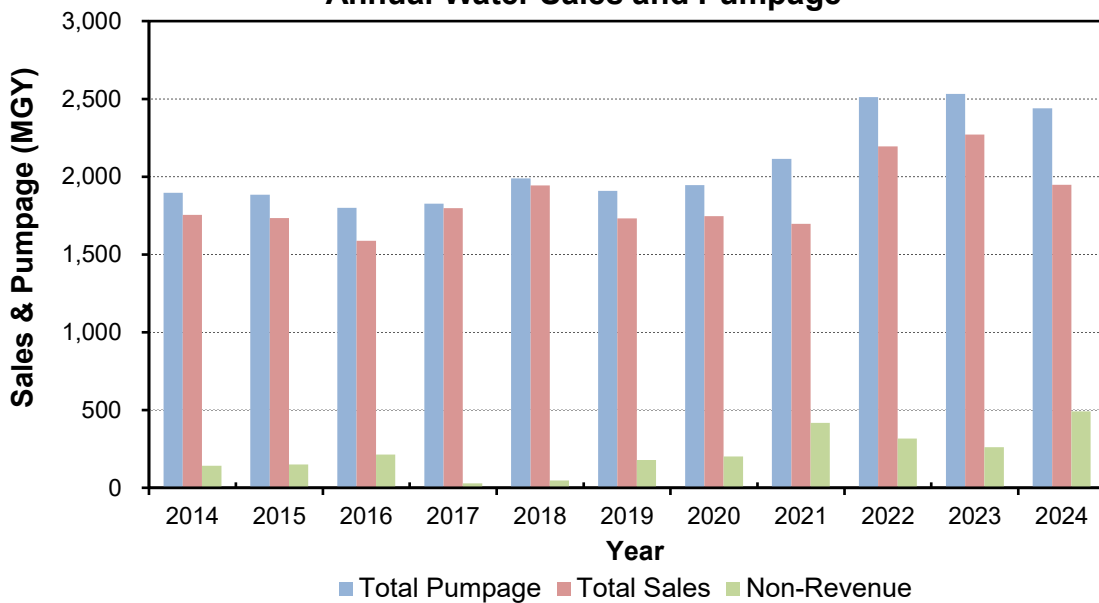


Table IV-2: Historical Customer Summary

Year	Number of Customers					Total
	Residential	Commercial	Industrial	Public	Multi-Family	
2014	7,614	1,124	31	177	112	9,058
2015	7,647	1,089	30	176	159	9,101
2016	7,741	1,101	30	179	160	9,211
2017	7,701	1,102	25	139	160	9,127
2018	7,739	1,131	34	176	162	9,242
2019	7,959	1,225	34	194	175	9,587
2020	7,972	1,282	25	167	176	9,622
2021	7,808	1,094	26	167	159	9,254
2022	7,834	1,075	26	165	158	9,258
2023	7,880	1,120	31	166	165	9,362
2024	7,896	1,116	29	167	165	9,373

2024 Customer Summary

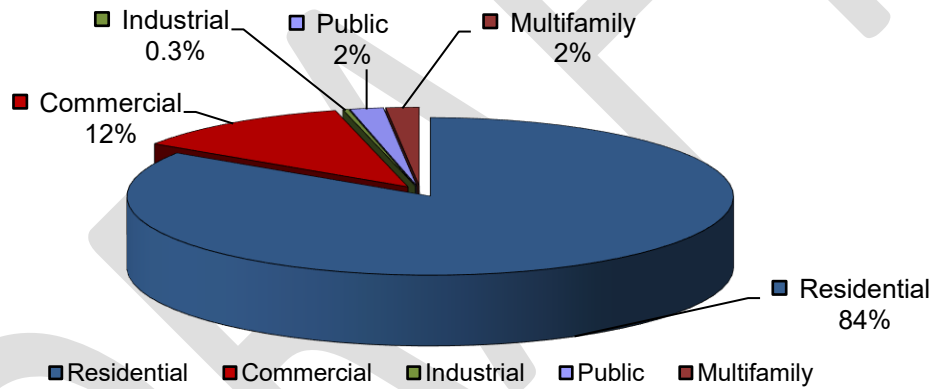


Table IV-3: Water Consumption History

Year	Annual Water Sales (MGY)					Total Sales (MGY)	Total Pumpage (MGY)	% of Pumpage Sold
	Residential	Commercial	Industrial	Public	Multi-Family			
2014	378.85	318.55	901.53	122.68	31.81	1,753.41	1,895.86	92%
2015	378.21	311.52	874.56	110.59	58.70	1,733.59	1,883.79	92%
2016	368.86	284.83	766.06	111.92	55.92	1,587.59	1,800.53	88%
2017	359.20	283.62	993.26	102.96	57.94	1,796.98	1,826.18	98%
2018	419.39	310.54	1,022.18	123.17	68.40	1,943.67	1,989.74	98%
2019	342.01	271.58	953.32	95.90	68.91	1,731.72	1,909.40	91%
2020	388.14	288.38	930.83	88.94	49.87	1,746.17	1,946.58	90%
2021	382.52	293.78	879.96	86.04	54.68	1,696.98	2,113.40	80%
2022	362.10	294.27	1,399.90	89.62	49.33	2,195.22	2,512.31	87%
2023	432.58	381.18	1,297.38	105.94	53.61	2,270.69	2,531.91	90%
2024	344.66	292.43	1,173.47	85.12	51.58	1,947.26	2,438.59	80%

Water Sales by Customer

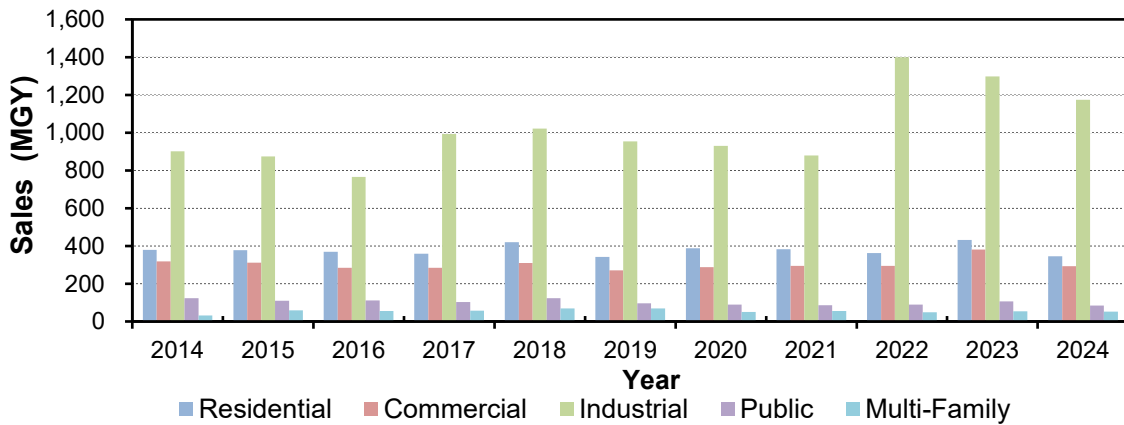


Table IV-4: Water Usage per Customer per Day

Year	Gallons per Customer per Day				
	Residential	Commercial	Industrial	Public	Multi-Family
2014	136	776	79,676	1,899	778
2015	136	784	79,869	1,722	1,011
2016	131	709	69,960	1,713	958
2017	128	705	108,851	2,029	992
2018	148	752	82,367	1,917	1,157
2019	118	607	76,819	1,354	1,079
2020	133	616	102,009	1,459	776
2021	134	736	92,724	1,412	942
2022	127	750	147,513	1,488	855
2023	150	932	114,660	1,748	890
2024	120	718	110,862	1,396	856
Average	133	735	96,846	1,649	936

Table IV-5: Historical Per Acre Usage

Customer Class	Residential	Commercial	Industrial	Public	Multi-Family
Existing Acres ¹ :	1,774	620	768	2,249	370
Year	Gallons per Acre per Day				
2014	585.1	1,407.6	3,216.1	149.4	235.5
2015	584.1	1,376.6	3,119.9	134.7	434.7
2016	569.7	1,258.6	2,732.8	136.3	414.1
2017	554.7	1,253.3	3,543.3	125.4	429.0
2018	647.7	1,372.2	3,646.5	150.0	506.5
2019	528.2	1,200.1	3,400.8	116.8	510.3
2020	599.4	1,274.3	3,320.6	108.3	369.3
2021	590.8	1,298.2	3,139.1	104.8	404.9
2022	559.2	1,300.4	4,993.9	109.2	365.3
2023	668.1	1,684.4	4,628.2	129.1	397.0
2024	532.3	1,292.2	4,186.2	103.7	381.9
Average	583.6	1,338.0	3,629.8	124.4	404.4

Notes:

1. Based on land use areas from the 2005 City of Stevens Point Comprehensive Plan.

Table IV-6: Historical Per Capita Usage

Year	Service Population	Gallons per Capita per Day					
		Residential	Commercial	Industrial	Public	Multi-Family	Total Retail Sales
2014	27,040	38.4	32.3	91.3	12.4	3.2	177.7
2015	27,037	38.3	31.6	88.6	11.2	5.9	175.7
2016	26,895	37.6	29.0	78.0	11.4	5.7	161.7
2017	26,757	36.8	29.0	101.7	10.5	5.9	184.0
2018	26,749	43.0	31.8	104.7	12.6	7.0	199.1
2019	26,490	35.4	28.1	98.6	9.9	7.1	179.1
2020	25,666	41.4	30.8	99.4	9.5	5.3	186.4
2021	25,580	41.0	31.5	94.2	9.2	5.9	181.8
2022	25,954	38.2	31.1	147.8	9.5	5.2	231.7
2023	26,332	45.0	39.7	135.0	11.0	5.6	236.3
2024	26,619	35.5	30.1	120.8	8.8	5.3	200.4
Average:		39.5	31.5	103.9	10.7	5.7	191.3

Water Sales per Capita

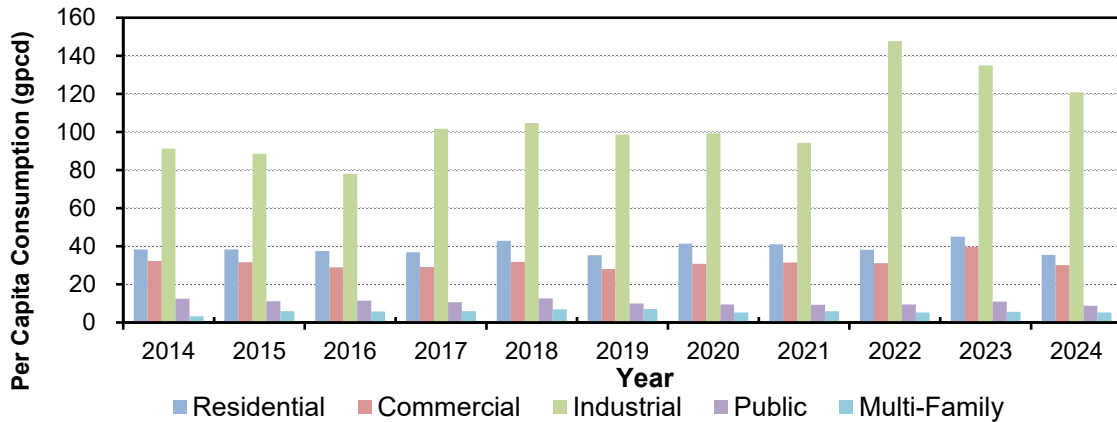


Table IV-7: Ten Largest Water Customers

Rank	Customer Name	Customer Class	Annual Water Usage (MGY) ¹	Average Daily Water Use (GPD) ¹
1	Ahlstrom Stevens Point Mill ²	Industrial	950.7	2,604,624
2	Ahlstrom Stevens Point Mill ²	Industrial	91.9	251,735
3	Ahlstrom Stevens Point Mill ²	Industrial	55.2	151,131
4	Ahlstrom Stevens Point Mill ²	Industrial	39.9	109,215
5	Sentry Insurance	Commercial	18.7	51,146
6	Lineage Logistics, LLC	Industrial	17.1	46,954
7	Sentry Insurance	Commercial	12.1	33,181
8	Eagle Housing, LLC	Multi-Family	11.5	31,523
9	Donaldson	Industrial	11.4	31,192
10	Stevens Point Brewery	Industrial	8.4	23,016

Notes:

1. Based upon billing records from January to December 2024.
2. The paper mill has several meter locations.

D. Non-revenue Water and Unaccounted for Water

The difference between total water pumped and total water sold is called non-revenue water. Non-revenue water is typically the result of one or more of the following:

1. Unmetered water usage for firefighting.
2. Inaccuracies in water metering devices.
3. Unmetered public water usage.
4. Leakage within the distribution system.
5. Unmetered water usage for treatment processes and maintenance purposes, such as filter cleaning, hydrant flushing and water main repairs.

Non-revenue water is usually expressed as a percentage. That portion of non-revenue water attributed to leakage, meter inaccuracies, and other unknown losses is often termed water losses and can be an indicator of the condition of the water system. When a distribution system is very old or poorly maintained, the amount of unaccounted for water often increases dramatically.

Over the last 11 years, the percentage of the total non-revenue water has been reported to be as high as 20% in 2024 and as low as 2% in 2018. A summary of historical non-revenue water and water loss volumes is provided in Table IV-1. The degree of fluctuation experienced in metered pumpage is common for public water utilities and can be influenced by the factors summarized above. For example, the percentage of non-revenue water would be expected to increase in years when unusual problems with leakage or meter stoppage occurred, or when unusually high water demands for fire protection occurred. As a general rule, the percentage of non-revenue water should ideally be less than 15%. For water pumpage projections, this study assumes that the percentage of non-revenue water in future years will be maintained at 10%. Historically, the water losses for the Utility have varied. Reported non-revenue water has typically varied between 2% and 20%.

It is important to note that quantifying non-revenue water simply as a percent of pumped water to billed water, while widely used and accepted, is limited in its ability to accurately indicate an appropriate or acceptable level of water loss. For example, if water conservation measures are implemented causing total consumption to decrease, and yet leakage and other unaccounted-for water uses remain the same (as volume), then the percent of water losses actually increases as a percent. This would mistakenly indicate that the level of water loss has gotten worse, while in actuality, the total quantity has remained the same.

E. Variations in Customer Demands and Pumpage

Maximum daily water demands usually occur during the summer months on hot days when additional water is used for watering lawns, gardening, washing, and industrial cooling. Understanding and quantifying the maximum day pumpage is of particular importance to water system planning because water supply facilities must be sized to meet this demand. The maximum day demand is defined as the amount of water pumped during a single day of the year with the highest water usage. Maximum day demand is often expressed as a ratio (or factor) of the annual average day pumpage.

Table IV-8 presents the average and maximum day pumpage for each year from 2014 to 2024. With the exception of maximum day pumpage resulting from artificial demands caused by water main breaks, tank overflows, or hydrant flushing, the maximum day pumpage typically occurs during the summer months of July to September.

Over the last 11 years, the maximum day pumpage ratio (ratio of maximum day to average day pumpage) has varied from a low of approximately 1.40 in 2024 to a high of 1.77 in 2020. The values shown in Table IV-8 are typical for similar sized communities.

To gain a better understanding of expected fluctuations in customer demands for the Utility, a statistical analysis was performed of historical maximum day to average day pumpage ratios. The results of this analysis are also summarized in Table IV-8.

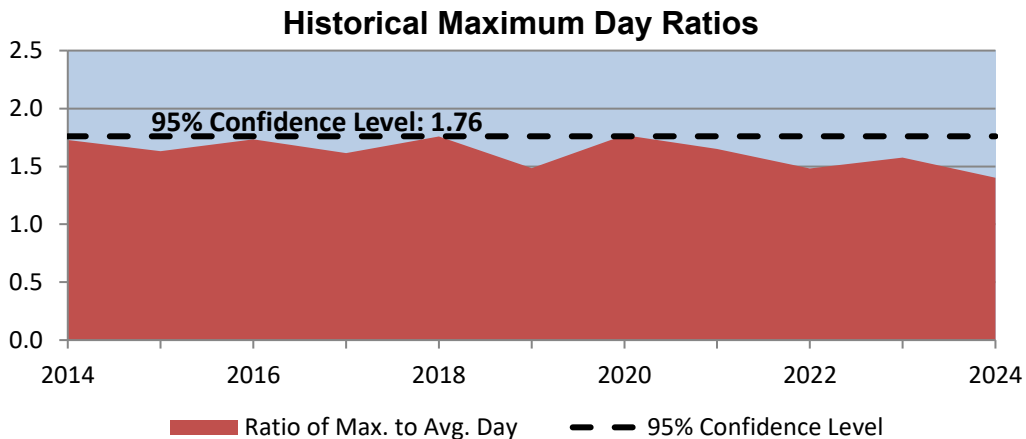
The average maximum to average ratio for the past 11 years was 1.62; however, it is good practice to use a larger ratio to project future pumpage. For this reason, Table IV-8 also includes a statistical analysis of maximum day pumpage ratios for various confidence levels. For example, using a 95% confidence level, the corresponding maximum to average ratio is 1.76. Therefore, to evaluate future water supply and storage needs, a maximum day pumpage ratio of 1.76 is used for this study.

Table IV-8: Daily Pumpage Variations

Year	Avg. Day Pumpage (MGD)	Max. Day Pumpage (MGD)	Date of Maximum Day	Ratio of Max. to Avg. Day
2014	5.19	8.980	July 25	1.73
2015	5.16	8.417	July 31	1.63
2016	4.93	8.551	June 22	1.73
2017	5.00	8.083	July 26	1.62
2018	5.45	9.586	Aug 17	1.76
2019	5.23	7.771	Aug 23	1.49
2020	5.33	9.440	Aug 21	1.77
2021	5.79	9.550	June 15	1.65
2022	6.88	10.20	Aug 02	1.48
2023	6.94	10.94	Jul 07	1.58
2024	6.68	9.367	Aug 26	1.40

Statistical Analysis	Result
Number of years of Data	11
Maximum Ratio - Max. to Avg. Day Pumpage	1.77
Minimum Ratio - Max. to Avg. Day Pumpage	1.40
Average Ratio Max. to Avg. Day Pumpage	1.62

Confidence Level (%)	Ratio of Max. to Avg. Day
80%	1.73
85%	1.75
90%	1.76
95%	1.76
98%	1.77
100%	1.77



F. Hourly Demand Fluctuations

The hourly variation of water demands is an essential parameter in evaluating water supply and storage requirements. Peak hour demand is important because storage facilities are usually designed to equalize demands when they exceed the maximum day demand. Peak hour demand represents the hour of maximum demand. Peak hour demand is typically expressed as a ratio to the maximum day demand.

According to AWWA Manual M32, typical ranges for peak hour factors in distribution systems of various sizes are 1.3 to 2.0 for peak hour to maximum day and 0.2 to 0.6 for minimum hour to maximum day. In the EPCC Study, the Utility’s SCADA data was analyzed to determine the typical peak hour factor which was found to be about 1.5. In this study, a peak hour demand factor of 1.5 times the maximum day demand is used, which is typical for municipalities the size of the City of Stevens Point.

G. Water Consumption and Pumpage Projections

Except for industrial water sales, projected water sales to the existing service area are assumed to correlate with population change summarized in Table III-1. As discussed in Chapter III, the population is projected to increase from 26,619 in 2024 to 27,619 in 2045 according to the projections provided by the City Planning Department. Industrial water sales within the existing service area are projected to remain stable, independent of population change, at 1,200 MGY.

Projected water sales to planned developments in the proposed pressure zone are taken from the EPCC Study. The total demands from the proposed developments described in the EPCC Study are about 2.95 MGD or 1,075.8 MGY. To project sales to the proposed 40-acre development near North Brilowski Road as described in Chapter III, a water use of 600 gallons per acre per day (GPAD) is applied. As shown in Table IV-5, 600 GPAD is the approximate water usage for residential areas. Using this approximate water usage per acre, the total annual water usage from the North Brilowski Road development is approximately 8.8 MGY. Water sales projections to these planned developments are shown in Table IV-9.

Table IV-9: Water Sales Projections to Planned Developments

Development Type	Acres	Projected Water Sales		
		GPAD ²	MGD	MGY
North Brilowski Road Development (Residential):	40	600	0.02	8.8
Developments in Proposed New Pressure Zone ¹	-	-	2.95	1,075.8
Total Demands from Proposed Developments:			2.97	1,085

Notes:

1. Projected sales are taken from Table 4-7 from the EPCC Study.

Water sales projections for the 20-year planning period of this WSSAP are shown in Table IV-10. Water sales to the existing service area and sales to new developments are added together to estimate the total projected sales. To ensure that the supply capacity of the Utility’s wells is sufficient for all proposed developments, the water demand projections assume that the proposed pressure zone will reach full buildout by 2045. The actual rate of development will likely be slower, however, by assuming a rapid rate of development, this will ensure that the supply capacity is sufficient for all proposed developments. The projected total pumpage assumes that the non-revenue water is 10% of the total pumpage.

Table IV-10: Annual Water Sales and Pumpage Projections

Customer Classification	Actual 2024	Projected			
		2030	2035	2040	2045
Water Sales					
Per Capita Sales (gpcd)					
Residential Sales	35	45	45	45	45
Commercial Sales	30	40	40	40	40
Industrial Sales	121	-	-	-	-
Public Sales	9	13	13	13	13
Multi-Family	5	8	8	8	8
<i>Population Projections:</i>	26,619	26,869	27,119	27,369	27,619
Annual Sales to Service Area (MGY)¹					
Residential Sales	345	441	445	450	454
Commercial Sales	292	392	396	400	403
Industrial Sales ²	1,173	1,200	1,200	1,200	1,200
Public Sales	85	127	129	130	131
Multi-Family	52	78	79	80	81
Sales to New Developments³					
Proposed New Pressure Zone ⁴	0	269.0	537.9	806.9	1,075.8
N Brilowski Development	0	8.8	8.8	8.8	8.8
Total Sales (MGY)	1,947	2,517	2,796	3,075	3,353
Non-revenue Water (MGY) ⁵	491	280	311	342	373
Total Pumpage (MGY)	2,439	2,797	3,107	3,416	3,726

Notes

1. Residential, commercial, public and multi-family water usage is assumed to correlate with population change.
2. Industrial sales are assumed to remain constant independent of population change.
3. Sales to new developments are assumed to be in addition to the sales to existing customers which correlates with population change.
4. Taken from the EPCC Study. Projected demands are assumed to reach full buildout by 2045.
5. Estimated to be 10% of total pumpage for future projections.

H. Summary of Total Demands and Pumpage Requirements

The total annual sales and pumpage projections previously summarized in Table IV-10 were based on a summation of water sales projections for each major customer classification. An allowance was also made for unmetered miscellaneous water usage and losses (non-revenue water) to arrive at total pumpage projections.

Table IV-11 summarizes projections of future water needs for average day, maximum day, and peak hour demands. Total annual pumpage is projected to increase from approximately 2,439 MGY (6.68 MGD) to approximately 3,504 MGY (9.60 MGD) by the year 2045. Table IV-11 also illustrates the projected water sales and pumpage through the planning period.

Table IV-11: Future Pumpage Projections

Estimate	Actual 2024	Projected			
		2030	2035	2040	2045
Total Annual Sales (MGY)	1,947	2,517	2,796	3,075	3,353
Total Annual Pumpage (MGY)	2,439	2,797	3,107	3,416	3,726
Average Day Pumpage (MGD)	6.68	7.66	8.51	9.36	10.21
Design Maximum Day Pumpage (MGD) ²	9.37	13.49	14.98	16.47	17.97
Design Peak Hour Demand (gpm) ³	9,800	14,100	15,700	17,200	18,800

Notes:

1. Non-Revenue water is assumed to be 10% of total pumpage for future projections.
2. Projected maximum day pumpage projections were estimated using a ratio of maximum to average day pumpage of 1.76.
3. Design peak hour demand projections were estimated using a ratio of peak hour demand to maximum day pumpage of 1.50.

DRAFT

V. SUPPLY AND STORAGE ANALYSIS

A critical step in the water system evaluation for the Utility is an assessment of water supply and storage requirements. Water supply and storage needs are closely related. The primary criteria used in determining required supply rates and storage volumes include maximum day and peak hour demands, operational characteristics, and fire protection needs.

A. Water Supply Analysis

As it is frequently necessary to take a well and/or booster pump out of service for periods of days to even weeks for maintenance or repair, it is necessary to properly plan to ensure that demand requirements can be met even when a pumping unit may be out of service. It is then necessary to determine a reliable capacity that accounts for the uncertainty that all pumping units will be available. By excluding one pumping unit (for planning purposes, the largest capacity unit is typically used) the reliable capacity is then determined. Therefore, reliable capacity is defined as the total available delivery rate with the largest pumping unit out of service.

For evaluating a municipal water system, the reliable supply capacity should at least equal maximum day pumpage requirements, assuming adequate storage is available. If this criterion is met, supply facilities will have adequate capacity to replenish storage during off-peak hours, while depletion of available storage occurs during peak demand hours.

Reliable water supply capacity is the capacity of the existing supply sources (well facilities and service pumps) to reliably supply maximum day demands from the aquifer to the water system. Table V-1 summarizes the well and well pump capacities used for the reliable water supply capacity evaluation. The reliable supply capacity is calculated assuming that the largest supply unit, Well 11, is out of service. The following sections discuss reliable water supply and system capacity in further detail for the existing water system.

Table V-1: Existing Reliable Supply Capacity

Supply Source	Supply Capacity		Water to Distribution Capacity	
	(gpm)	(MGD)	(gpm)	(MGD)
Wells				
Well 6 (Temporarily Offline) ¹	2,100	3.02	2,100	3.02
Well 7	2,100	3.02	2,100	3.02
Well 8	1,691	2.44	1,691	2.44
Well 9	1,500	2.16	1,500	2.16
Well 10	4,200	6.05	4,200	6.05
Well 11 ²	9,050	13.03	5,100	7.34
Well 12 (Planned) ³	1,014	1.46	1,014	1.46
Total Pumping Supply Capacity	21,655	31.18	17,705	25.50
Less: Largest Supply Units	9,050	13.03	5,100	7.34
Existing Reliable Supply⁴	9,491	13.67	9,491	13.67
Future Reliable Supply⁵	12,605	18.15	12,605	18.15

Notes:

1. Planned to be brought back into service in 2026.
2. Well 11 is rated for a total of 9,050 gpm. However, when all well pumps are operated simultaneously, the maximum pumping capacity based on water modeling is approximately 5,100 gpm.
3. Well 12 is not yet in operation and is planned to be put into service in 2026.
4. Capacity from Wells 6 and 12 is not included in the existing reliable supply.
5. Capacity from Wells 6 and 12 is included in the future reliable supply.

1. Existing Recommended Reliable Supply Capacity

As shown in Table V-2, the existing reliable supply capacity exceeds the current maximum day demand. Therefore, the City's wells are sufficient to meet current demands.

Table V-2: Existing Recommended Reliable Supply Capacity

Supply Requirements	Water System 2024	
	<u>gpm</u>	<u>MGD</u>
Design Average Day Demand	4,639	6.68
Design Maximum Day Demand ¹	6,505	9.37
Present Reliable Supply Capacity	9,491	13.67
Reliable Supply Capacity Excess or (Deficiency) (gpm)	2,986	4.30

Notes:

1. See Table IV-1

B. Water Storage Analysis

1. Water Storage Needs

In addition to providing water for fire protection, system storage is used as a “cushion” to equalize fluctuations in customer demands, establish and maintain water system pressures, provide operational flexibility for water supply facilities, and improve water supply reliability. The primary criteria used in this study for evaluating storage volume needs include average and peak hour demands, water supply capacities, and fire protection needs.

In general, storage facilities should be adequately sized to provide sufficient quantities of water for fire protection on days of maximum customer demands. Although storage requirements for fire protection are not anticipated to change over the planning period of this study, peak hour demands and reliable supply capacities will change as the community grows and improvements are implemented.

Figure V-1 illustrates general components of system storage. As customer demands exceed supply capacities during peak hour conditions, the excess demand must be met by depleting available storage. The amount of storage depleted is referred to as equalizing storage for peak hour requirements.

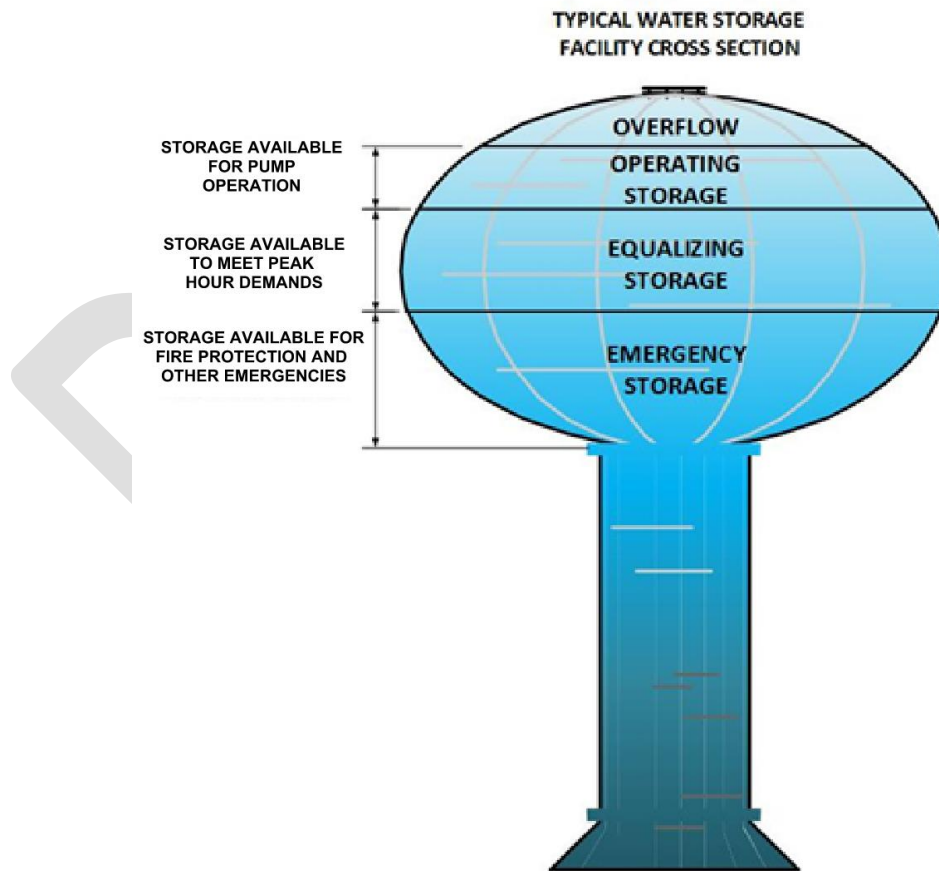


Figure V-1: Storage Components

Storage should also be available for fire protection purposes. To ensure a reliable supply for fire protection, this portion of storage should be reserved for emergency use only and should not be used to meet peak hour or operational requirements. It is assumed that the maximum fire flow requirement for the Utility is 3,500 gpm for a duration of 3 hours, or the equivalent of 630,000 gallons in each pressure zone.

It is also good practice to provide additional storage for the purposes of operational needs. Operational storage allows for the control of pumps prior to the depletion of needed peak hour equalizing storage. Operational storage may be needed as a safety factor in emergencies or where customer demands are unpredictable and fluctuate widely. Operational storage may also be desired to take advantage of off-peak electrical rates for pumping. Operational storage is assumed to be 15% of the total storage volume.

2. Effective Storage Volumes

The effective storage volume of a water storage facility is the amount of available water that can be utilized while meeting regulatory requirements for system pressure. The WDNR requires that water system pressures under normal operating conditions remain above 35 psi and under emergency conditions, such as during a fire, system pressures must be maintained at a minimum pressure of 20 psi. To meet these requirements, the water surface in the storage facility must be approximately 81 feet above the highest elevation area in the service area to maintain 35 psi and at least 46 feet to maintain 20 psi. These water column heights are based upon static conditions (assuming no head losses due to friction) so actual water column heights would be higher as friction losses are included.

Based upon this evaluation, the effective volume of each existing and proposed storage facility is summarized in Table V-3. Using gauging tables for the Utility's existing and proposed ESTs, it was determined that the total storage volume effective for peak hour equalization is 1,049,000 gallons and that all the storage volume is effective for fire protection.

3. Recommended Existing Water Storage Volumes

The following relationships between supply capacities and storage volumes are the primary criteria used to determine optimum storage volumes:

1. Reliable supply capacity should at least equal projected maximum day supply requirements.
2. Total available storage should be capable of meeting demands in excess of the maximum day demand as well as fire protection needs, assuming reliable supply capacity is adequate to meet maximum day requirements.

The existing optimum water storage requirement for the Utility is about 1.58 MG, as shown in Table V-4. The existing storage facilities provide 1.75 MG of available storage. However, due to excess pumping capacity, the recommended storage volume can be reduced because the excess pumping capacity can be used to reduce the equalizing storage needed. When this is done, the recommended total storage capacity can be reduced by 0.70 MG to 0.88 MG. The Utility's combined storage capacity of 1.75 MG in elevated storage is sufficient for existing demands.

Table V-3: Effective Storage Volumes

Storage Criteria	Water Street Tank	Bliss Avenue Tank	Proposed Tank #3
Pressure Zone	Main	Main	Zone 2
Design Volume (gallons)	1,000,000	750,000	1,000,000
Diameter (feet)	Varies	Varies	Varies
Head Range (feet)	35.0	40.0	40.0
Storage Volume per foot (gallons)	Varies	Varies	Varies
Overflow elevation (feet USGS) ¹	1,252.0	1,252.0	1,285.0
Approximate Highest Elevation Served in Pressure Zone (feet USGS)	1,148	1,148	1,189
Approximate Hydraulic Grade Elevation needed to provide minimum 35 psi to all areas	1,229	1,229	1,270
Maximum Effective Peak Hour Storage Volume (gallons) ²	<i>374,000</i>	<i>245,000</i>	<i>430,000</i>
Approximate Hydraulic Grade Elevation needed to provide minimum 20 psi to all areas	1,194	1,194	1,235
Additional Effective Fire Protection and Emergency Storage Volume (gallons) ³	<i>626,000</i>	<i>505,000</i>	<i>570,000</i>
Total Effective Storage Volume (gallons)	1,000,000	750,000	1,000,000

Notes:

1. Not including the proposed boosted pressure zone.
2. Effective peak hour storage is considered the volume available which will continue to maintain adequate pressures in the distribution system at a minimum of 35 psi (under static conditions). Volumes derived from storage tank gauging tables.
3. Effective fire protection and emergency storage is considered the volume available which will continue to maintain pressures in the distribution system at a minimum of 20 psi (under static conditions). Volumes derived from storage tank gauging tables.

Table V-4: Existing and Projected Supply and Storage Requirements

Supply Recommendations	Existing 2024		Projected 2030		Projected 2035		Projected 2040		Projected 2045	
	gpm	MGD	gpm	MGD	gpm	MGD	gpm	MGD	gpm	MGD
Design Average Day Demand	4,639	6.7	5,321	7.7	5,910	8.5	6,499	9.4	7,088	10.2
Design Maximum Day Demand	6,505	9.4	9,365	13.5	10,402	15.0	11,438	16.5	12,475	18.0
Design Peak Hour Demand	9,800	14.1	14,100	20.3	15,700	22.6	17,200	24.8	18,800	27.1
Design Reliable Supply Capacity ¹	9,491	13.7	12,605	18.2	12,605	18.2	12,605	18.2	12,605	18.2
Reliable Supply Capacity Excess or (Deficiency) (gpm)	2,986		3,240		2,203		1,167		130	
Storage Recommendations	Existing 2024		Projected 2030		Projected 2035		Projected 2040		Projected 2045	
Peak Hour Equalizing Need (gallons) ²	714,000		1,028,000		1,142,000		1,256,000		1,370,000	
Optimum Fire Protection Needs (gallons) ³	630,000		1,260,000		1,260,000		1,260,000		1,260,000	
Operating Storage (gallons; 15% of Total) ⁴	238,000		404,000		424,000		444,000		465,000	
Total Optimum Recommended Storage (gallons)	1,582,000		2,692,000		2,826,000		2,960,000		3,095,000	
Available Effective Storage Capacity (gallons):										
Water Street Tank (374,000 gallons peak hour; 626,000 gallons fire flow)	1,000,000		1,000,000		1,000,000		1,000,000		1,000,000	
Bliss Avenue Tank (245,000 gallons peak hour; 505,000 gallons fire flow)	750,000		750,000		750,000		750,000		750,000	
Proposed Tank #3 (430,000 gallons peak hour; 570,000 gallons fire flow)	-		1,000,000		1,000,000		1,000,000		1,000,000	
Total Effective Storage Capacity (gallons)⁵	1,750,000		2,750,000		2,750,000		2,750,000		2,750,000	
Subtotal Additional Capacity Recommended (gallons)	None		None		76,000		210,000		345,000	
Less: Excess Available Reliable System Supply Capacity for Peak Hour (gallons) ⁶	706,000		903,000		723,000		419,000		55,000	
Less: Excess Supply Capacity Available for Fire Protection (gallons) ⁷	None		None		None		None		None	
Total Storage Capacity Excess or (Deficiency) (gallons)⁸	874,000		961,000		647,000		209,000		(290,000)	

Notes:

1. Reliable Supply Capacity is with largest source out of service.
2. Peak hour storage is storage utilized to meet demands which exceed the maximum day demand rate assuming the reliable supply capacity is equal to the maximum day demand rate.
3. Optimum fire protection based on 3,500 gpm for 180 minutes in each pressure zone. A second pressure zone is proposed and is included in future years
4. Operating storage is storage utilized to provide a start/stop range for pump operation and an emergency reserve storage supply.
5. Total Effective Storage Capacity is limited to a total of the Optimum Fire Protection Needs plus peak hour available storage to maintain regulatory system pressures.
6. Supply Capacity Credit cannot exceed Peak Hour Equalization and is calculated utilizing the time of day demand curve and current supply capacity.
7. Supply Capacity Credit cannot exceed Fire Protection Need and is calculated as the reliable supply capacity in excess of Peak Hour Demand x 180 min.
8. Individual pressure zones are not analyzed in this study. A separate analysis would be needed to estimate supply and storage needs in individual pressure zones.

C. Supply and Storage Results

The results from the supply and storage analysis are included in Table V-4. The existing reliable supply capacity does not include Wells 6 and 12, which are both planned to be put into operation in the year 2026; the reliable supply capacity for future years includes Wells 6 and 12, as shown in Table V-1. Additionally, the storage capacity for projected years includes a 1.00 MG EST that is proposed in the new pressure zone.

The results of the analysis show that the Utility has sufficient supply for all the water demands that were projected in Chapter IV. The projected 2045 maximum day demand is 18.0 MGD and the reliable supply, including Wells 6 and 12, is 18.2 MGD. However, even with the proposed 1.00 MG EST, there is projected to be a 0.29 MG deficiency in storage. The EPCC Study notes that in addition to the recommended 1.00 MG EST, an additional 0.25 MG of storage may be needed in the new pressure zone before full buildout. It is important to note that the supply and storage analysis in this WSSAP does not analyze the storage capacity in individual pressure zones. As water demands increase over time, the storage capacity should be revisited to determine how much additional storage is needed in each pressure zone. Given that a rapid rate of development is assumed in this WSSAP, these findings should be reevaluated as development progresses.

D. Summary

This section summarizes the findings from the supply and storage evaluation of the City of Stevens Point Water Utility. Major findings from this evaluation include the following:

1. The reliable supply capacity, once Wells 6 and 12 are in operation, is adequate to meet current and projected water demands until the end of the planning period of 2045.
2. The Utility is projected to need additional storage towards the end of the planning period. However, given that a rapid rate of development is assumed in this WSSAP, this should be confirmed later as development progresses.

VI. CONCLUSION AND RECOMMENDATIONS

A. Key Findings and Recommendations

1. Population Projections

The City Planning Department's preliminary population projections predict an increase from 24,619 in 2024 to 27,619 by 2045 which is the end of the planning period of this study. The proposed developments throughout the City include residential, commercial, industrial, and multi-family.

2. Water Demands

The existing average day and maximum day water demands from 2024 pumpage are 6.68 MGD and 9.34 MGD, respectively. The total average and maximum day water demands are projected to increase to 10.21 MGD and 17.97 MGD by 2045, respectively.

3. Supply

The Utility has seven groundwater wells with a total reliable supply capacity of 12,605 gpm or 18.15 MGD. This is sufficient to meet the projected 2045 maximum day demand of 12,475 gpm or 18.0 MGD.

4. Storage

The Utility currently has 1.75 MG of elevated water storage with another 1.00 MG EST proposed in the new pressure zone. The total elevated storage capacity is projected to be slightly deficient by the end of the planning period. However, given that this WSSAP assumes a rapid rate of development, this should be revisited in the future as demands increase.

5. Other Considerations

The largest water customer, Ahlstrom Paper Mill, accounts for nearly half of all water usage within the City. If the paper mill were to increase or reduce water usage, or shut down, this would significantly impact water distribution and the findings in this report would need to be revisited and revised. If water usage is reduced at any point, this would result in overall lower water usage and excess supply capacity. Conversely, if the water usage at the paper mill increases, this would reduce the Utility's ability to serve future developments.

B. Consistency With Other Plans and Agreements

Previous studies and plans were reviewed to ensure consistency with this WSSAP. This WSSAP uses full buildout water demand projections from the EPCC Study that was done by Ruckert & Mielke, Inc. in 2025. Additionally, the 2024 Portage County Comprehensive Plan and the 2025 North Central Wisconsin Regional Planning Commission (NCWRCP) Comprehensive Plan were reviewed. It was found that the findings of this WSSAP are consistent with these two comprehensive plans.

The latest comprehensive plan done by the City in 2005 is currently being updated by the City. Once the updated comprehensive plan is finalized, it should be reviewed for consistency with the findings in this WSSAP. If the findings are not consistent with the comprehensive plan, modifications should be made to update the WSSAP and bring it to compliance with the comprehensive plan.

C. Plan Implementation

There are no immediate steps required to implement this WSSAP.

D. Public Participation

A draft copy of this Plan will be made available on the City's website. The public will be notified and encouraged to provide comments and questions.

E. Updates to Plan

This Plan is required to be reviewed every five years and updated as necessary. A new WSSAP will need to be created by 2045 before the end of the planning period.

DRAFT

**STEVENS POINT, WISCONSIN
WATERWORKS REPORT**

FOR DECEMBER 2025

CURRENT YEAR VS. PREVIOUS YEAR

	2024	2025	INCREASE	DECREASE	RECORD HIGH/LOW	DATE	
Total pumpage, gallons	172,688,000	166,903,000		5,785,000	201,625,000	12/1/2003	
Daily pumping average, in gallons	5,570,000	5,383,970		186,030			
Peak pumpage, gallons, (date)	6,660,000 (3RD)	8,205,000 (11TH)	1,545,000		8,837,000	12/2/2001	
Low pumpage, gallons, (date)	3,861,000 (4TH)	3,706,000 (10TH)		155,000	1,270,000	12/25/1970	
					2,265,000	12/25/2012	◀Record low since 1995 when the utility started providing water to Stora Enso.
Power bill	\$21,119.30	\$20,283.35		\$835.95	\$21,119.30	Dec-24	
K.W.H's used	231,414	226,679		4,735			
Gallons pumped per K.W.H.	854	736		118			

**STEVENS POINT WATER DEPARTMENT
CONSUMPTION HISTORY**

(Pumpage x 1,000)

MONTH	2025	2024	2023	2022	2021	2020	2019	2018	2017	2016
JANUARY	191,525	190,129	178,957	188,381	138,644	150,622	142,263	147,206	140,438	131,056
FEBRUARY	174,855	200,341	173,997	173,503	135,391	131,127	135,573	132,869	123,311	124,330
MARCH	182,380	197,093	169,879	195,466	150,690	138,327	154,358	148,770	139,881	131,189
APRIL	176,085	194,614	167,050	171,871	146,563	127,470	135,713	133,238	142,367	135,484
MAY	215,675	207,278	208,084	211,721	174,529	149,292	154,346	168,410	141,687	175,174
JUNE	229,512	228,814	284,930	238,070	225,268	181,763	181,220	187,095	175,722	187,693
JULY	237,122	232,529	280,293	261,545	214,800	199,876	199,645	240,487	202,817	185,672
AUGUST	226,475	241,404	275,018	251,597	206,429	231,447	210,777	225,280	179,208	167,623
SEPTEMBER	220,162	219,734	239,167	227,586	181,626	174,925	169,779	181,556	157,626	151,238
OCTOBER	186,924	189,354	177,717	206,986	188,859	170,759	143,805	148,186	151,878	143,498
NOVEMBER	165,376	166,568	194,002	191,454	169,636	151,193	135,482	133,317	137,452	126,023
DECEMBER	166,903	172,688	182,805	194,570	186,582	139,795	146,329	143,324	133,796	141,554
Grand Total/Yr	2,372,994	2,440,546	2,531,899	2,512,750	2,119,017	1,946,596	1,909,290	1,989,738	1,826,183	1,800,534

**STEVENS POINT WATER DEPARTMENT
WELL 11 PUMPAGE HISTORY**

(Pumpage x 1,000)

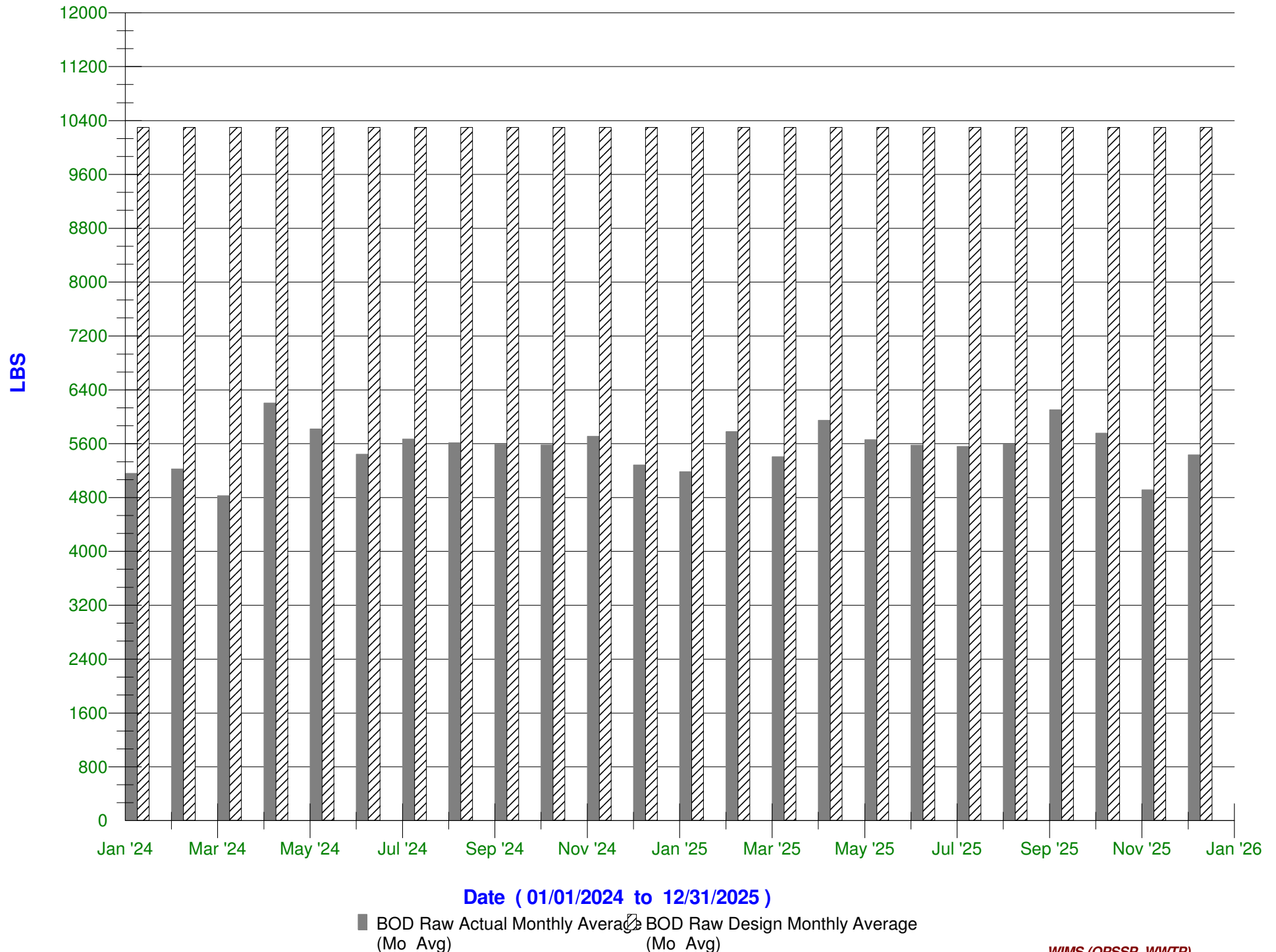
MONTH	2025	2024	2023	2022	2021	2020	2019	2018	2017
JANUARY	89,445	89,029	88,937	88,942	83,106	82,287	82,112	88,989	89,079
FEBRUARY	79,592	83,297	79,725	80,355	80,293	83,129	80,253	80,441	80,474
MARCH	88,798	82,726	81,120	88,834	88,768	88,771	88,609	76,469	88,652
APRIL	85,446	86,122	84,933	84,742	86,110	86,022	84,640	86,223	76,187
MAY	89,075	88,543	88,563	88,861	88,978	88,891	88,880	88,968	66,836
JUNE	85,529	90,926	93,567	85,473	86,219	86,029	85,990	86,098	74,224
JULY	93,325	98,263	98,201	89,341	89,195	86,944	88,225	88,869	88,996
AUGUST	88,295	98,269	98,201	89,417	88,490	88,902	88,811	88,978	88,973
SEPTEMBER	86,386	78,157	88,166	86,525	86,109	86,044	85,974	86,010	86,157
OCTOBER	87,789	85,933	88,652	89,828	86,373	88,916	88,841	87,366	89,120
NOVEMBER	86,345	76,273	86,218	86,211	86,217	82,881	85,244	85,751	86,441
DECEMBER	88,891	89,129	88,973	89,035	89,444	88,909	88,890	87,468	72,909
Grand Total/Yr	1,048,916	1,046,667	1,065,256	1,047,564	1,039,302	1,037,725	1,036,469	1,031,630	988,048

Final Effluent Discharge Data

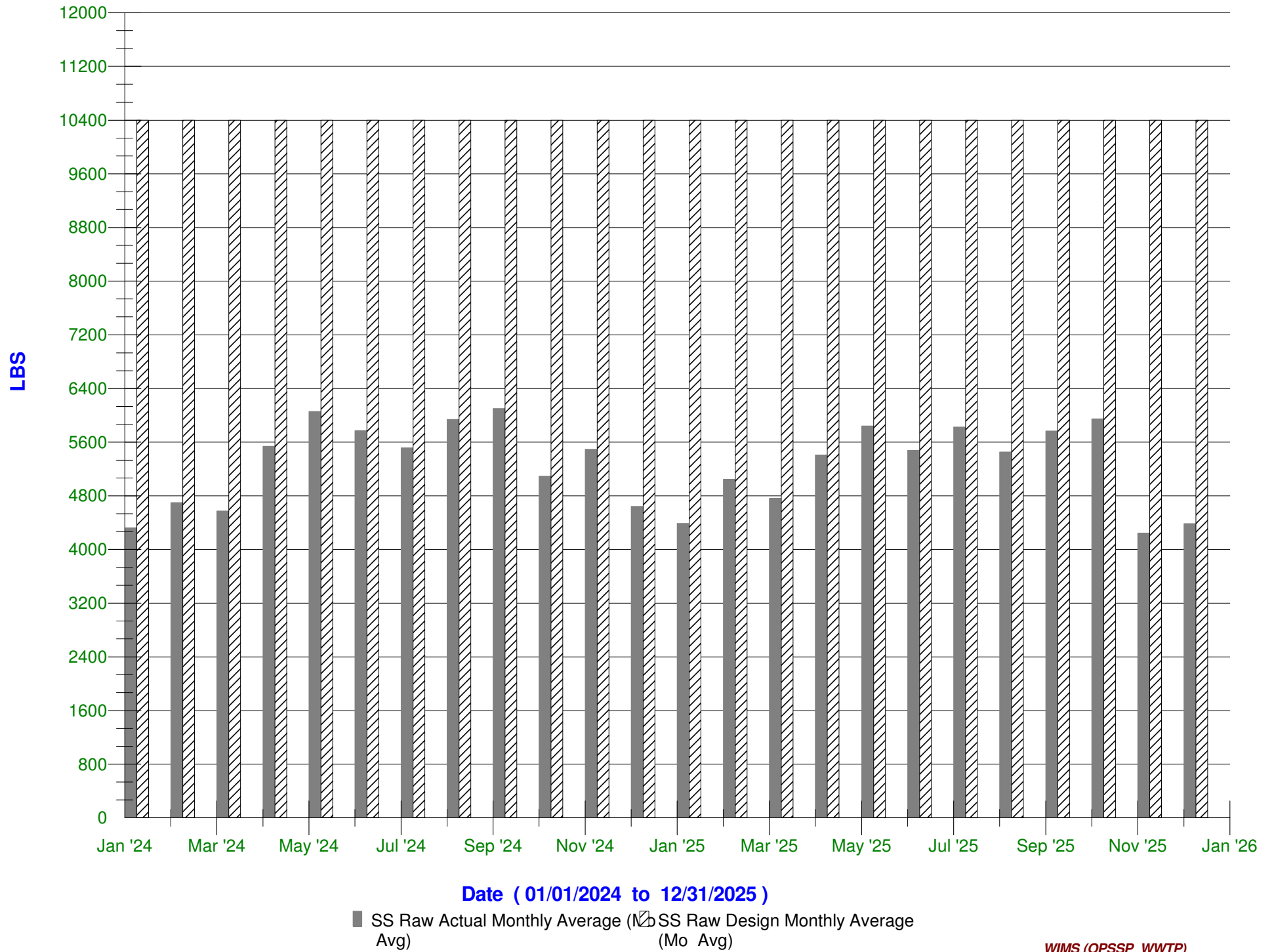
December 2025

Date	Precip INCHES	Sewage Flow		BOD					S.S.					Phosphorus				Fecal Coliform	Effluent Ammonia
		Raw MGD	Final MGD	Raw MG/L	Final CBOD MG/L	% Reduct.	Raw Pounds BOD/Day	Final Pounds CBOD/Day	Raw (ppm)	Final (ppm)	% Reduct.	Raw Pounds SS/Day	Final Pounds SS/Day	Raw (ppm)	Final (ppm)	Raw Pounds P/Day	Final Pounds P/Day	Final #/100 ml	mg/L
12/01/2025	0.00	2.113	2.148	345	7.76	98	6,080	139	376	5.74	98	6,626.03	103						
12/02/2025	0.04	2.192	2.264	277	8.29	97	5,064	157	240	6.99	97	4,387.51	132						23
12/03/2025	0.02	2.266	2.519	393	8.23	98	7,427	173	228	6.86	97	4,308.84	144	6.700	0.230	127	5		29
12/04/2025	0.00	2.218	2.533	195	8.37	96	3,607	177	216	5.94	97	3,995.59	125						43
12/05/2025	0.00	2.176	2.526	281	4.53	98	5,100	95	344	7.06	98	6,242.86	149	6.160	0.240	112	5		52
12/06/2025	0.05	2.040	2.390	263	4.43	98	4,475	88	300	5.94	98	5,104.08	118	5.690	0.220	97	4		58
12/07/2025	0.05	2.082	2.408	266	3.79	99	4,619	76	304	5.99	98	5,278.62	120						
12/08/2025	0.00	2.224	2.562	353	4.72	99	6,548	101	288	6.43	98	5,341.87	137						
12/09/2025	0.06	2.219	2.589	358	4.38	99	6,625	95	292	5.79	98	5,403.89	125						45
12/10/2025	0.55	2.170	2.545	374	3.98	99	6,769	84	288	5.59	98	5,212.17	119						35
12/11/2025	0.00	2.218	2.600	332	3.93	99	6,141	85	352	6.60	98	6,511.34	143	6.990	0.680	129	15		40
12/12/2025	0.00	2.156	2.399	296	4.45	98	5,322	89	236	5.40	98	4,243.53	108	6.230	0.560	112	11		31
12/13/2025	0.01	1.990	2.032	257	3.67	99	4,265	62	220	4.60	98	3,651.25	78						
12/14/2025	0.00	2.007	2.044	236	3.25	99	3,950	55	204	5.00	98	3,414.63	85	5.650	0.490	95	8		8
12/15/2025	0.00	2.203	2.247	323	4.44	99	5,934	83	248	4.80	98	4,556.51	90						
12/16/2025	0.00	2.230	2.305	339	4.21	99	6,305	81	256	5.00	98	4,761.14	96						8
12/17/2025	0.00	2.211	2.281	274	3.47	99	5,052	66	240	4.60	98	4,425.54	88	6.410	0.182	118	3		6
12/18/2025	0.00	2.180	2.246	486	3.93	99	8,836	74	240	3.73	98	4,363.49	70						6
12/19/2025	0.11	2.072	2.113	359	3.99	99	6,204	70	296	4.60	98	5,115.02	81	6.160	0.182	106	3		8
12/20/2025	0.00	1.929	1.978	150	3.65	98	2,413	60	80	4.20	95	1,287.03	69	3.330	0.182	54	3		6
12/21/2025	0.00	1.915	1.946	434	3.86	99	6,931	63	232	4.91	98	3,705.30	80						
12/22/2025	0.11	2.017	2.080	405	4.38	99	6,813	76	276	3.31	99	4,642.81	57						4
12/23/2025	0.00	2.051	2.120	413	5.74	99	7,065	101	244	5.01	98	4,173.70	89	6.480	0.230	111	4		9
12/24/2025	0.00	1.866	1.920	299	5.81	98	4,653	93	220	4.73	98	3,423.74	76	5.470	0.230	85	4		8
12/25/2025	0.00	1.632	1.661	242	3.38	99	3,294	47	184	4.12	98	2,504.40	57	3.830	0.210	52	3		4
12/26/2025	0.04	1.850	1.906	334	4.37	99	5,153	69	240	3.53	99	3,702.96	56						4
12/27/2025	0.00	1.853	1.901	281	5.13	98	4,343	81	252	3.85	98	3,894.41	61						
12/28/2025	0.02	1.906	1.979	255	4.71	98	4,053	78	188	5.15	97	2,988.46	85						
12/29/2025	0.57	2.029	2.087	277	4.74	98	4,687	83	288	4.51	98	4,873.50	78						
12/30/2025	0.00	1.942	1.982	329	11.70	96	5,329	193	252	5.94	98	4,081.46	98						
12/31/2025	0.05	1.970	2.026	332	12.84	96	5,455	217	224	5.40	98	3,680.28	91						
Total	1.68	63.927	68.337	9,758	164	3,045	168,512	3,013	7,848	161.32	3,033	35,901.93	3,010	69.100	3.636	1,197.431	68.906		425.490
Average	0.05	2.062	2.204	315	5	98	5,436	97	253	5.20	98	4,383.93	97	5.758	0.303	99.833	5.667		21.350
Maximum	0.57	2.27	2.60	486.00	12.84	99.19	8,836.06	216.96	376.00	7.06	98.80	6,626.03	148.73	6.99	0.68	129.30	14.75		57.90
Minimum	0.00	1.63	1.66	150.00	3.25	95.71	2,413.18	46.82	80.00	3.31	94.75	1,287.03	56.11	3.33	0.18	52.13	2.91		3.58

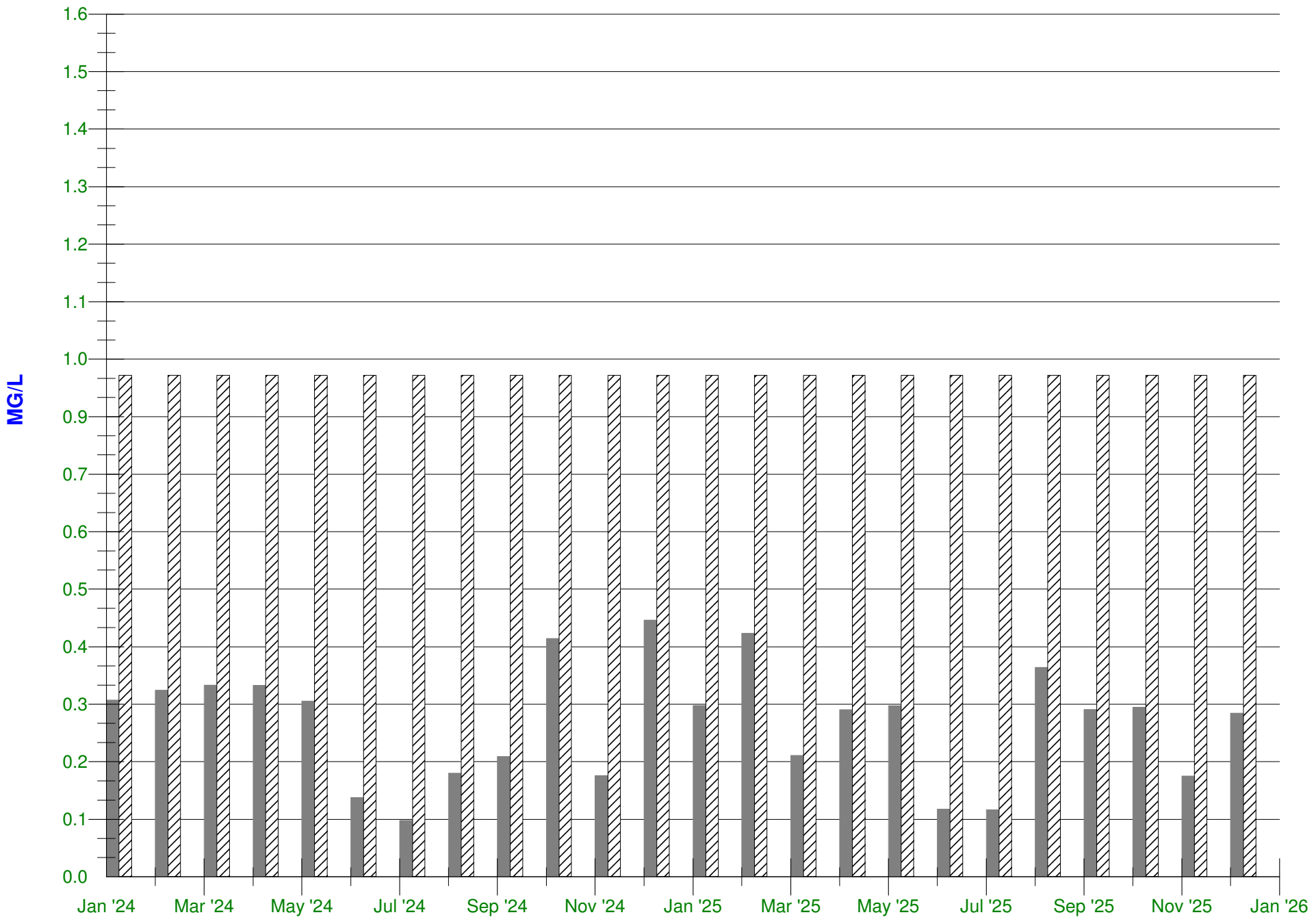
BOD Raw 2 Year History



SS Raw 2 Year History



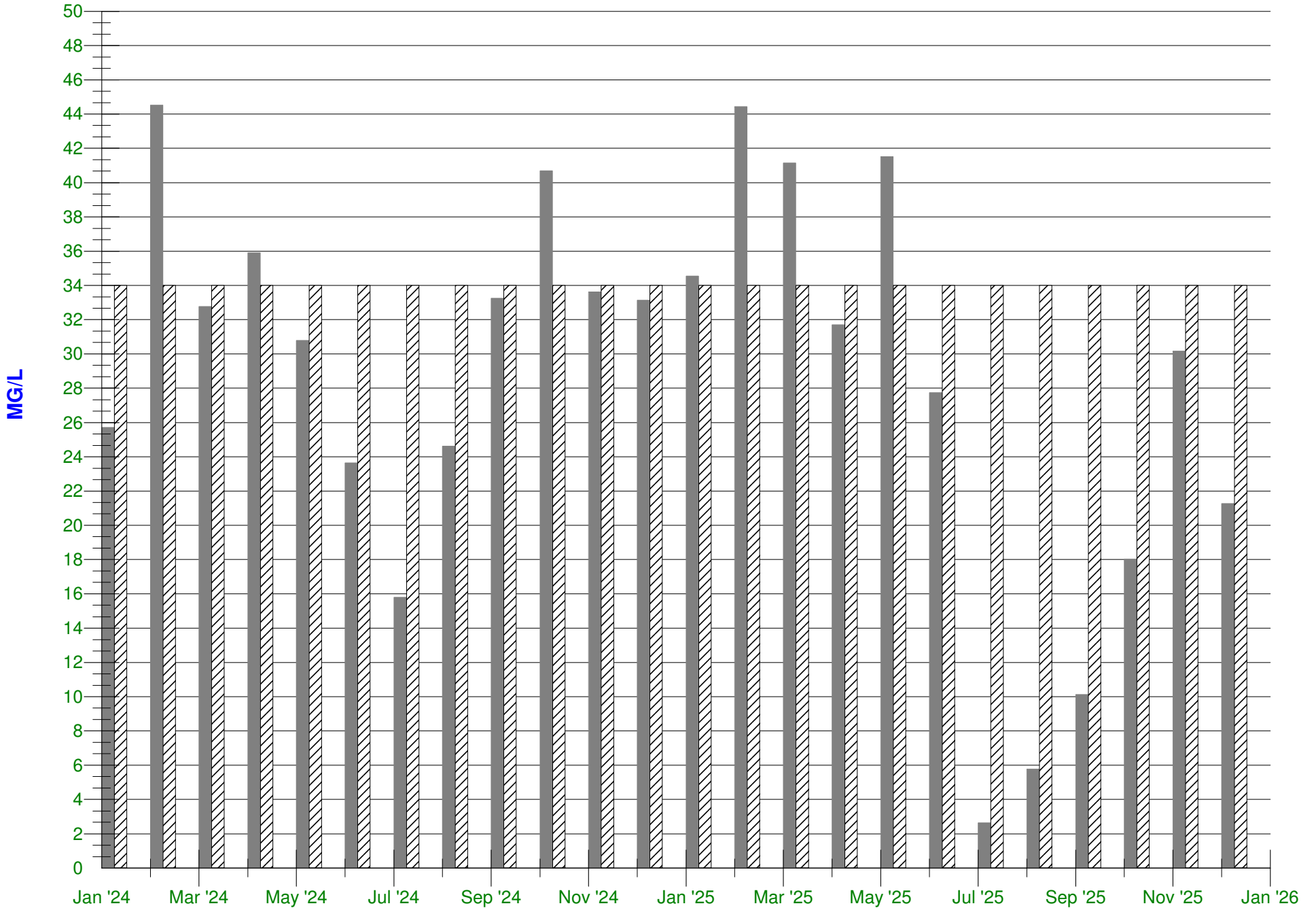
Phosphorus mg/l 2 Year History



Date (01/01/2024 to 12/31/2025)

Effluent Phosphorous Total (Mo Avg)
 Phosphorus Final Limit (Mo Avg)

Effluent Ammonia mg/l 2 Year History



Date (01/01/2024 to 12/31/2025)

Effluent Ammonia (Mo Avg)
 Effluent Ammonia Limit (Mo Avg)

Sewage Plant Monthly Average

Month	Temperature		Precip. INCHES	Sewage Flow		Phosphorus				BOD					Suspended Solids					Power kW	Per Day LBS BOD Removed	Gas Production Per Day CUFT
	Max °F	Min °F		Influent MGD	Effluent MGD	Raw Influent		Final Effluent		Raw Influent		Final CBOD Eff.		Reduction	Raw Influent		Final Effluent		Reduction			
					MG/L	LBS	MG/L	LBS	MG/L	LBS	MG/L	LBS	%	MG/L	LBS	MG/L	LBS	%				
Jan 2025	23	11	0.25	2.123	2.395	5.427	94	0.318	6	291	5,157	5.52	110.25	98	247	4,378	4.81	96.00	98	6,587	5,046	
Feb 2025	26	7	0.85	2.073	2.314	6.416	111	0.452	9	332	5,748	7.23	139.59	98	290	5,011	10.05	193.90	96	6,914	5,609	
Mar 2025	46	24	4.88	2.255	2.563	5.675	101	0.225	5	291	5,477	5.62	120.11	98	255	4,805	5.05	107.86	98	6,703	5,356	
Apr 2025	54	33	4.26	2.782	3.173	4.022	90	0.310	8	257	5,958	6.21	164.34	98	232	5,390	7.44	196.96	97	6,433	5,794	
May 2025	67	44	2.15	2.553	2.925	4.437	93	0.317	8	266	5,655	2.83	69.04	99	276	5,868	4.03	98.37	98	7,548	5,586	
Jun 2025	76	58	5.45	2.335	2.682	5.498	106	0.125	3	286	5,565	3.50	78.29	99	282	5,494	2.64	59.12	99	7,320	5,487	
Jul 2025	83	62	4.07	2.349	2.556	5.056	100	0.124	3	283	5,536	3.40	72.50	99	296	5,806	3.61	76.88	99	6,277	5,464	
Aug 2025	77	58	3.29	2.310	2.499	4.765	92	0.388	8	289	5,571	3.62	75.47	99	281	5,422	5.07	105.62	98	6,135	5,495	
Sep 2025	74	52	1.93	2.318	2.591	5.830	113	0.310	7	314	6,073	5.31	114.66	98	297	5,736	5.76	124.51	98	6,853	5,958	
Oct 2025	64	42	1.32	2.199	2.477	6.218	112	0.314	6	313	5,741	4.84	99.95	98	325	5,959	5.53	114.27	98	6,123	5,641	
Nov 2025	44	25	0.86	2.086	2.271	5.288	92	0.187	3	281	4,897	3.92	74.23	99	243	4,233	4.57	86.59	98	5,200	4,822	
Dec 2025	26	9	1.68	2.062	2.204	5.758	100	0.303	6	315	5,414	5.29	97.34	98	253	4,354	5.20	95.67	98	6,355	5,316	
Minimum	23	7	0.25	2.062	2.204	4.022	90	0.124	3	257	4,897	2.83	69.04	98	232	4,233	2.64	59.12	96	5,200	4,822	
Maximum	83	62	5.45	2.782	3.173	6.416	113	0.452	9	332	6,073	7.23	164.34	99	325	5,959	10.05	196.96	99	7,548	5,958	
Total	660	425	30.99	27.446	30.650	64.389	1,204	3.373	72	3,518	66,791	57.29	2,157.6	1,180	3,278	62,457	63.76	1,355.74	1,175	78,450	65,576	
Average	55	35	2.58	2.287	2.554	5.366	100	0.281	6	293	5,566	4.77	101.31	98	273	5,205	5.31	112.98	98	6,537	5,465	

December Utility Construction and Maintenance Report

1. Contracted Road/Utility Construction Progress:

- Village of Park Ridge water main/road project, **complete**, punch list items remain
- Washington Ave. (Project 25-101) **complete**, punch list items remain
- Madison St./Monroe St. (Project 25-102) **complete**, punch list items remain
- Public Works re-paving Country Club Dr. **complete**, punch list items remain
- Fiber ring from UWSP to P.D. to Transit in progress, **directional boring complete**, fiber splicing/patching projected for January
- 2026 Public Works re-paving Green Ave. (Utility structure adjustments only)
- 2026 Public Works repaving Northpoint Dr. from Stanley St. to Wilshire Dr. (utility structure adjustments only, potential water and sewer extension)
- 2026 Michigan St. underpass reconstruct from Dixon St. to Patch St.
- 2026 Division St reconstruct from Northpoint Dr. to Briggs St.
- 2026 Church St. reconstruct from Heffron St. going south to City limits

2. Utility Maintenance Activities:

- Televising, cut, jet, flush as normal (pending weather)
- Winter Operations
 - Snow Removal Duties
 - Fire Hydrant Checks
 - Inventory Counts
 - Equipment Maintenance
 - Building PM's

3. Future Construction and Maintenance Projects:

- Swale Heffron St. - 2026
- Swale Woodland St. - 2027

4. Emergencies/Pager Calls:

- (4) After hours pager calls in December

5. Training:

- February will have multiple safety sessions given by CVMIC
- (3) Employees scheduled for DNR water certification classes & exams in March