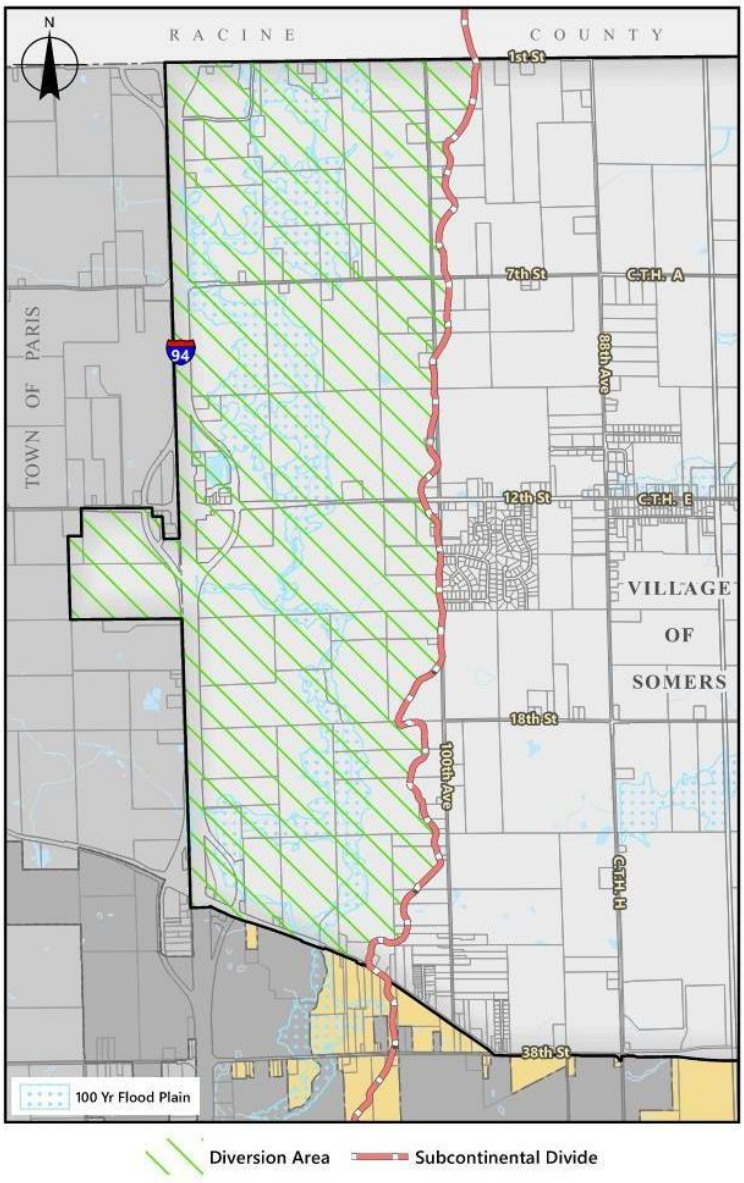
Village of Somers

Somers Water Utility

Annual Water Diversion Report - 2025



March 2025

Village of Somers and Somers Water Utility
Great Lakes Water Diversion Annual 2024 Report

==========

Summary

The Village of Somers and Somers Water Utility (Village) is submitting this annual report to satisfy the 2021 Diversion Application (2021 Application) requirements of the Wisconsin Department of Natural Resources (DNR)'s approval to the Village's Great Lakes Water Diversion.

Stipulation of the Approval is that the Village must annually report on the following items:

1.) The total amount of water diverted monthly within the approved diversion area.
2.) The total amount of water sold quarterly (or sold monthly if monthly data is available) to each category of customer within the approved diversion area.
3.) The total monthly sewerage flow to the City of Kenosha Wastewater Plant from the diversion area.
4.) The total consumptive use as specified by the DNR.
5.) A summary of the impact of the implemented Conservation and Efficiency Measures (CEMS) required under Wis. Admin. Code NR 852.04 and NR 852.05, including quantifiable impacts to water use intensity, as defined in Wis. Admin. Code NR 852.03(29).
6.) A description of any additional CEMS implemented.

General

In 2022 the Village built and put into operation a water transfer station to serve the area west of 88th Ave, including the Diversion Area. Since there are currently no customers west of 88th Avenue and east of the subcontinental divide, all water that passes into the Diversion Area is metered at the transfer station. In the future, there will be customers west of 88th Avenue that are not within the Diversion Area; these individual customer meters will be deducted from the meter reading at the water transfer station. Also in 2022, the Village installed a sanitary lift station (Lift Station 1A) that collects all sewage generated in the Diversion Area. The sewage flow meter at the lift station will be utilized to measure all sewage that is returned out of the Diversion Area and sent to the Kenosha Water Utility for processing.

The following were completed in 2025 that reflect water sent into the Diversion Area without wastewater returning to the Great Lakes Basin:

- Construction / Flushing of Golden Oil Water Main
- Annual Fire Flow Testing for all sites
- Lawn Watering for Bobcat Extension
- Lawn Watering for Flint 94 – Onsite
- Lawn Watering for Darby

- Lawn Watering for Kwik Trip

Table 1 below summarizes the water introduced into the Diversion Area by the water transfer station, subtracts metered customers (served by the water transfer station) outside of the Diversion Area, and calculates consumptive use by subtracting the sewage flow returned to the Great Lakes Basin. Please note that several new water mains were flushed and placed into service in the 3rd quarter of 2025, which resulted in higher-than-expected amount of water diverted. Table 2 below summarizes the metered customers within the Diversion area and water used in 2025.

Consumptive Use

The WDNR defines consumptive use as the sum of the water sold and the water used for flushing minus the total return gallons. Table 1 shows the consumptive use ratio within the Diversion Area in 2025. The higher ratio in the 3rd quarter is due to flushing of new water mains. After taking off the sprinkler meter readings, water main flushing, and our water loss due to hydrants being damaged in 2025, our water loss was within 1%. The negative consumptive use can be attributed to I&I in our sewage system. Most of the system runs through farm fields and wetlands that infiltrate large volumes of water which make it into our sewage system. Our lift station meter was last checked 9/23/2025.

Table 1. Total Water Introduced and Returned from the Diversion Area

2025	Volume (Gallons)		
	Water Transfer Station & Water Diverted	**Sanitary Lift Station**	**Consumptive Use**
Q1	896,000	2,260,000	-152%
Q2	1,478,000	1,981,000	-34%
Q3	3,312,000	1,765,000	47%
Q4	1,178,000	1,743,000	-48%
Total	6,864,000	7,749,000	-13%

Table 2. Customer Usage

2025	Volume Sold (Gallons)				
	Q1	Q2	Q3	Q4	Total
Pritzket Military Archives and Armory 10475 12th St	142149	44889	12719	36659	236,416
Kwik Trip Store/Gas Station 11350 28th St	387543	448143	407743	380809	1,624,238
Kwik Trip Car Was 11350 28th St	330683	259609	226690	224446	1,041,428
Kwik Trip Irrigation 11350 28th St	0	748	0	0	748
Mission 94 Range 1487 120th Ave	10474	9726	26933	14215	61,348
Mission 94 Sprinkler 1487 120th Ave	0	0	428691	368091	796,782
H.S.A. Darby Farms 2655 113th Ave	748	1496	1611519	370335	1,984,099
Bobcat 1242 122nd Ave	24689	17207	9726	10474	62,097
Flint 94 Bld 3 1338 120th Ave	1496	2244	3741	79304	86,786
Flint 94 Commerce Center 1484 120th Ave	1496	1496	3741	1496	8,230
Becknell 11705 18th St	0	748	0	0	748
Golden Oil Gas/Store 11302 12th St	0	0	0	13467	13,467
Golden Oil Sprinkler 11302 12th St	0	0	0	1496	1,496
TOTALS	**899279**	**786308**	**2731503**	**1500793**	**5,917,882**

Annual 2025 Water Audit

The Annual Water Audit for 2025 has not yet been completed, but our draft is included in this report. We anticipate having the audit completed in May. This also gave us our Non-Revenue Water use for Table 4. We have also included the Annual Water Audit from 2024, which is our most recent Audit, and was not included in last years report.

Impact of Conservation and Efficiency Measures (CEM)

Table 4 (page 6) summarizes the current 2025 application data for historical per-capita consumption. Note the per-capita consumption data has been adjusted for 2023 and removed for previous years. The total water demand per REU from 2021 was 193 gallons per day (gpd) per REU, while in 2025 it decreased to 165 gpd per REU. The decrease in water use per REU equates to an approximate 17% percent reduction, which indicates the Village has met their conservation goal.

Table 6 (Page 8) summarizes the water use efficiency metrics and estimates a water use of 165 gpd per REU. The Village's documented water loss for 2025 was also 7%, which is 9% less than 2024's. The most likely reason for this difference is better documentation of water loss through the utility and fire department.

Description of Additional CEM's Implemented

The Village expects CEM Item PWS-4 and the future meter reading system and replacement meters to further improve unaccounted water and improve conservation efforts in upcoming years. This includes replacing older style SR2 meters with newer more accurate Sensus iPerl meters. In 2025, the Village replaced 256 meters. Residents are also given brochures at the time of replacement for additional information on cross connection and water conservation.

Description of Additional Conservation Efforts – Sheridan Road Area

The Village has obtained approval and implemented rebates for replacing toilets and showerheads with high-efficiency WaterSense. The Village completed construction of water main replacements on Sheridan Road in 2022. Year 2023 was the first year the Village also tracked the water sold to the individual homes in the Sheridan Road Area. This collected data confirms the difference in the water purchased from KWU and the amount sold to the customers in the Sheridan Road Area is only different by six percent. The former water mains in this area were leaking. The difference is water conserved.

Water Main Installed / Replaced 2025

There was no existing water main replaced in 2025. Most of the non-pvc watermain in Somers has been replaced recently. All new water main that was installed in 2025 have not been accepted by The Village of Somers yet; once infrastructure passes Village standards it will be included. All new watermain material is PVC. See attached map on page 12 for locations.

Village's efforts to better calculate multifamily population

The Village reached out to every 10+ unit multifamily complex, including UW-Parkside to receive data on their number of units per each bedroom type, as well as occupancy of each. The results of this effort can be found in Table 7 attached to this report. The remaining multifamily customers that did not respond had their population estimated by taking the average occupancy factor of units we did get information on and using said factor.

Table 4: 2025 Application Data

HISTORICAL PER CAPITA CONSUMPTION

Year	Total Population	Population Served		Gallons per Capita per Day						
		Residential	Multifamily	Residential	Commercial	Industrial	Public	Multifamily Residential	Non-Revenue Water Use	Total
2008	8211	2079	-	74.9	53	0	34.2	-	41.6	204
2009	8275	2155	-	68.7	57.4	0	36.2	-	23.4	186
2010	8356	2146	-	**86.9**	80.4	0	21.9	-	20.2	209
2011	8276	2195	-	66.9	71.7	0	46.8	-	20.7	206
2012	8222	2172	-	76.1	**87.2**	0	32.5	-	32.6	228
2013	8128	2188	-	63.6	80.7	0	46.6	-	-6.5	184
2014	8271	2227	-	55.8	58.5	0	**47.2**	-	19	181
2015	8273	2225	-	58.5	57.7	0	40.8	-	23.9	181
2016	8462	2798	-	51.6	61.3	0	35.4	-	19.6	168
2017	8615	2243	-	59.1	47.5	1.5	40.6	-	31.8	181
2018	8827	2301	-	58.9	35.2	2.8	39.4	-	53.5	190
2019	8371	2332	-	55.5	22	0.8	35.9	-	50.3	165
2020	8402	2343	-	62.3	23.2	0.2	24.5	-	38.6	149
2021	8330	2348	-	70.4	34.7	**5.4**	35	-	99.8	**245**
2022	8501	2285	-	64.7	33.8	4.3	33.3	-	21	157
2023	8396	2232	4044	65.7	39.8	2.6	12.5	28.9	31.6	181
2024	9387	2677	2868	53.9	14.3	4.8	15.1	41.2	15.4	144.7
2025	9442	2594	3261	72.7	15	4.6	14.3	**50.7**	9.3	166.6
Average				64.3	50.5	1.3	34.0	35.1	31.6	185.8

Footnotes:

[1] Total population for the Village of Somers was estimated between 2008 and 2015 when the Village incorporated. The estimated Village population between 2008 and 2015 was estimated by subtracting the average Town population in 2016 through 2021 from the Town population between 2008 and 2015. Population data sources include Wisconsin Department of Administration and the United States Census Bureau for census years.

[2] Population served was estimated using residential customers multiplied by the average persons per household of 2.32. For multifamily population served was based on an actual count of bedrooms provided by the Village for apartments and condominiums.

[3] Prior to 2014, Multifamily Residential was reported as a part of Commercial.

Year	Number of Customers					Total
	Residential	Commercial	Industrial	Public	Multifamily Residential	
2008	896	111	0	15	-	1022
2009	929	130	0	16	-	1075
2010	925	141	0	18	-	1084
2011	946	128	0	17	-	1091
2012	936	120	0	16	-	1072
2013	943	120	0	16	-	1079
2014	960	207	0	9	0	1176
2015	959	205	0	9	0	1173
2016	**1206**	**212**	0	9	0	**1427**
2017	967	152	**2**	8	66	1195
2018	992	157	**2**	8	68	1227
2019	1005	69	**2**	8	**156**	1240
2020	1010	77	**2**	**22**	114	1225
2021	1012	81	**2**	**22**	125	1242
2022	985	83	**2**	**22**	125	1217
2023	1005	93	**2**	20	130	1250
2024	1017	100	**7**	20	251	1395
2025	1021	115	**7**	20	287	1450

Footnote:

[1] Prior to 2014, Multifamily Residential was reported as a part of Commercial.

In 2025, the Number of Customers was calculated by using the number of meters allocated to each customer category. See PSC report.

Table 5: Status of CEM Measures from 2021 Diversion Application

CEM#	Description	Required Elements
PWS-1	Water Use Audit	For the 2024 PSC Audit, which is our most current version, our water loss was 16%. For our draft on our 2025 PSC Audit, our water loss is at 7% due to better documentation of flushing and water loss from damaged assets.
PWS-2	Leak Detection and Repair Program	Village staff used leak detection equipment to survey the system for leaks. Approximately 3% of the system was surveyed in 2025, and 1 service line was replaced. There was also 1 valve repaired. No water main repair was needed.
PWS-3	Information and Education Outreach	The Village's water conservation goals and AWE tool results are shared with residents on the Village website. The information can be found at the following link: ***https://www.somerswi.gov/news/2021/07/23/water-conservation/*** This link also includes information on minimizing lawn sprinkling during inefficient hours.
	Partner with UW-Parkside to educate students on water conservation	This item was anticipated for 2025, but the Village did not yet implement this. We are hopeful that we can come to an agreement with UW-Parkside to have some kind of education for students.
PWS-4	Performing Source Measurement	KWU bills the Village for source water and wastewater, and the Village bulls their residents on a quarterly basis. The data will be plotted and compared to determine discrepancies. KWU regularly tests and recalibrates the Somers master supply meters on an annual basis Additional steps may include comparing water sales and wastewater pumped from individual drain basins – Sheridan Road
PWS-R1	Distribution System Pressure Management	Pressure will be monitored at three locations: 1) Fire Station No.2 in KWU zone 2) Pike Creek Sewage lift station in KWU Zone 2, and the leaving line of the water transfer station on 18th Street serving the Somers Zone. All pressure data will be recorded and transmitted to the Utility's SCADA system.
PWS-R2	Residential Demand Management Program	The utility is currently installing Sensus iPerl meters in residents that have a meter age of 20 years or more. These meters more accurately capture water usage and can make customers aware of problems such as running toilets. The Village has implemented rebates for low-flow showerheads for single-family homes. The rebate consists of a $20 rebate for residents who purchase and install a WaterSense showerhead in their home. No residents have taken advantage of this program yet. In addition, the Village has also implemented a voluntary lawn sprinkling restriction that residents can participate in to further support the conservation efforts. The village currently maintains a program for residents to contact the Village Clerk if their quarterly water bill is higher than expected. We have 14 customers that have contacted about high water bills in 2025.
PWS-R3	Commercial and Industrial Demand Management Program	The Village has implemented rebates for commercial valve-type ultra-low flow toilets in commercial and industrial buildings. The rebate consists of a $100 rebate for customers who purchase and install a new WaterSense ultra-low-flow toilet in their business. No commercial or industrial customer have taken advantage of this rebate yet The village currently maintains a program for commercial customers to contact the Village Clerk if their quarterly water bill is higher than expected. 1 customer has complained to Village staff about a higher than expected water bill.

Table 6: 2025 Water Consumption Per REU—WDNR Spreadsheet

Calculate Residential Equivelent Units

Instructions: Enter system numbers in yellow boxes.

Meter Size	Number of Meters	REU Ratio*	REU
5/8	682	1	682
3/4	287	1	287
1	359	2.5	897.5
1 1/4	0	3.7	0
1 1/2	55	5	275
2	52	8	416
2 1/2	0	12.5	0
3	19	15	285
4	3	25	75
6	2	50	100
8	0	80	0
10	0	122	0
12	0	160	0
Total	1459		3017.5

Calculation Average Day Water User per REU

Total Water Sales	182,031,366.82	gallons
Average Day Water Use	498716.07	gallons/day
Water Use/REU	165.27	gpd/REU

Calculated Average Residential Per Capita Use

Instructions: Enter system numbers in yellow boxes

Connections	Q1	Q2	Q3	Q4			
Customer Class	Count	Count	Count	Count	Average	Occupancy Factor **	Population
Condo/Apt	230	275	275	275	263.75	12.4	3261
Residential	1035	1037	1039	1039	1037.5	2.5	2594

Condo/Apartment Population Calculation

	Bedroom	Units	Factor	Population	Total		
Apartment	1	589	1.27	750			
Apartment	2	671	2.43	1633			
Apartment	3	129	4.57	589			
Apartment	4	45	5.02	226			
Condo		79	2.05	162	3360	Population	5954

**Based on p
1434 occupied hou
U.S. Census B

Average Residential Per capita Use

Water Sold by quarter (Use in Thousands)

	Q1	Q2	Q3	Q4			
Customer Class	Water Sold	Water Sold	Water Sold	Water Sold	Total	Population	in gpd
Condo/Apt	14359	14688	18273	14839	62159	3360	50.68
Residential	13770	14356	23301	17404	68831	2594	72.70
Total					130990	5954	**60.28**

Calculate Maximum Day to Average Day

		Average Day	
Annual Water Withdrawal	198896940	544923.1	gallons/day
Maximum Day Withdrawal	859,698	3-Oct	gallons/day
Maximum to Average Day Ratio	1.58		

Table 7: 2025 Multifamily Population Effort

Hello Joshua,

Here is the number of these spaces let me know if you need anything else

- 1 Bedroom (single rooms- across 3 buildings)
  - total population-247
  - units-247
- 2 Bedroom (double rooms- across 3 buildings)
  - total population -421
  - units 210
- 3 Bedroom (Suite Style- 2-3 rooms- 1 bathroom)
  - total population 220
  - units 47 occupied- 50 total
- 4 Bedroom (University Apartments- 4 bedrooms, 2 bathrooms)
  - total population - 226
  - units- 45 occupied- 53 total
- Average Condo / Apartment occupancy
  - Average Occupancy Overall- 700 (3 Halls)
  - Average Apartment Occupancy- 5 people (4 rooms, 2 bathrooms, 1 kitchen)
  - Average suite occupancy- 4 people (2-3 rooms, 1 bathroom)
  - Average double room occupant- 2 people
  - Average single room occupancy- 1 person

UNIVERSITY OF WISCONSIN PARKSIDE

Margaret Watts
She, Her, Hers pronouns
Associate Director for Housing & Residence Life
wattsm@uwp.edu | 262-595-2320

Josh,

Sorry about the delay in getting back to you but Fausto is always late getting info to me (ha-ha)....

We have a total of 132 units:

12 - one bed units with a total of 16 people residing.

120 - two bed units with a total of 234 people residing.

Have a nice weekend.

Joe

Joe Montemurro
Professional Realty Associates
722 Sheridan Road, Kenosha, WI 53140

- 1 Bedroom total population and units
  - A1 floor plan x32 unit = 40 residents
  - A1.1 floor planx64 units = 86 residents
- 2 Bedroom total population and units - x76 units=134 residents
- 3 Bedroom total population and units= x18 units=41 residents

---

From: Joshua Fugate <JFugate@somerswi.gov>
Sent: Friday, January 9, 2026 3:12 PM
To: Anthony Suiter (SAP) <ASuiter@villagegreen.com>
Subject: Re: Occupancy of Hawthorn's Housing and Residence

Sorry, that was a copy and paste and I didn't change the name. I am looking for Savannah as well please.

Happy new year and thank you very much,

Resident Data Village of Som...
17 KB

Caution: This email originated from outside the organization. Do not click links or open attachments unless you recognize and trust the sender.

Hi Josh,

I ran a unit occupancy report. This shows current occupancy today. This report however only shows 233 units. We have 241total units here at Hawthorn. The model is excluded and I have 7 vacant units right now. I then organized by bedrooms. We do not have 4 bedrooms here but we do have studios.

Let me know if you need more information than that or if you want me to add the vacants back in with zero occupancy I can do that as well.

Thanks

Somers, WI Hawthorn Apartments

Angela Moon | Property Manager, ARM
a: Hawthorn Apartments | 1070 59th Ave Kenosha WI | 53144
e: amoon@lvpmllc.com | w: Hawthornapartments.com
p: (262) 584-8181

Established 1843 Somers VILLAGE & TOWN

Market Square		Units	Occupancy	Avg Occ:
	1 Bedroom	110	190	1.73
	2 Bedroom	170	646	3.80
	3 Bedroom	50	285	5.70
	4 Bedroom			

UW-Parkside		Units	Occupancy	Avg Occ:
	1 Bedroom	247	247	1.00
	2 Bedroom	210	421	2.00
	3 Bedroom	47	220	4.68
	4 Bedroom	45	226	5.02

Villa Rosa		Units	Occupancy	Avg Occ:
	1 Bedroom	12	16	1.33
	2 Bedroom	120	234	1.95
	3 Bedroom			
	4 Bedroom			

Seawall		Units	Occupancy	Avg Occ:
	1 Bedroom	10	15	1.50
	2 Bedroom	24	48	2.00
	3 Bedroom			
	4 Bedroom			

Hawthorn		Units	Occupancy	Avg Occ:
	1 Bedroom	124	171	1.38
	2 Bedroom	95	198	2.08
	3 Bedroom	14	43	3.07
	4 Bedroom			

Avalon		Units	Occupancy	Avg Occ:
	1 Bedroom			
	2 Bedroom	27	54	2.00
	3 Bedroom	18	45	2.50
	4 Bedroom			

Savannah		Units	Occupancy	Avg Occ:
	1 Bedroom	96	126	1.31
	2 Bedroom	76	134	1.76
	3 Bedroom	18	41	2.28
	4 Bedroom			

Water Mains Installed 2022-2025