



2024 SECTION 22 SUMMARY REPORT

SAUGEEN SHORES
DRINKING WATER SYSTEM

For the period of:
JANUARY 1, 2024 TO DECEMBER 31, 2024

Prepared for the Town of Saugeen Shores by the Ontario Clean Water Agency

This report was prepared in accordance with the requirements of [O.Reg 170/03, Schedule 22, Summary Reports for Municipalities](#) for the following system and reporting period:

Drinking-Water System Number:	210000078
Drinking-Water System Name:	Saugeen Shores Drinking Water System
Drinking-Water System Owner:	Town of Saugeen Shores
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2024 – December 31, 2024

1. Issues of Non-Compliance

A Ministry of Environment, Conservation and Parks (MECP) Drinking Water System Inspection was conducted on January 9, 2025 for the period covering January 11, 2024 to January 9, 2025. The inspection report has not yet been received.

The following is a summary of non-compliances noted in the MECP Inspection Report, as well as the duration and the measures that were taken to correct the non-compliance. If any self-reported non-compliances were included in the inspection report, they will be noted in Table 1.

Table 1. Non-Compliances and Corrective Actions noted in the 2024/2025 MECP Inspection Report

Non-Compliance(s)	Duration	Required Actions & Corrective Actions
N/A	N/A	N/A

The following table (Table 2) is a summary of any incidents that the Operating Authority interpreted as instances where any requirements of the Act, the regulations, the system’s approval, drinking water works permit (DWWP), municipal drinking water licence (MDWL), and any orders applicable were not met. The Operating Authority reported the following incidents to the MECP:

Table 2. Self-Reported Incidents and Corrective Actions for the Reporting Period

Reported Non-Compliance(s)	Duration	Required Actions & Corrective Actions
N/A	N/A	N/A

For information on any Adverse Water Quality Incident(s) that may have occurred during the reporting period, please refer to the Saugeen Shores Drinking Water System Annual Report (Section 11).

2. Assessment of Flowrates and Quantity of Water Supplied

The following tables summarize the quantities and flow rates of water supplied during the reporting period, including monthly averages and maximum daily flows as well as a comparison to the rated capacity and flow rates approved in the system’s approval, DWWP or MDWL.

2.1 Treated Water

Municipal Drinking Water License (MDWL):	093-101 (Issue Number: 3)
Allowable Rated Capacity:	18,000 m ³ /day
Allowable Flowrate into Treatment System:	Not listed in MDWL

As per the MDWL, the maximum daily volume of treated water that flows from the treatment subsystem to the distribution system shall not exceed the listed rated capacity. However, the MDWL allows a system to be operated temporarily at a maximum daily volume and/or a maximum flowrate above the values set out in the MDWL for the purposes of fighting a large fire or for the maintenance of the drinking water system.

Table 3. Treated Water Annual and Monthly Average and Maximum Flows with Comparison to Rated Capacity and Total Volume for 2024

Treated Water Flow					
Timeframe	Average Flow (m ³ /day)	Percent of Rated Capacity	Maximum Flow (m ³ /day)	Percent of Rated Capacity	Total Volume (m ³)
January	4,768	26.5%	5,325	29.6%	147,797
February	4,814	26.7%	5,292	29.4%	139,593
March	4,796	26.6%	5,074	28.2%	148,687
April	4,915	27.3%	5,538	30.8%	147,454
May	5,858	32.5%	7,192	40.0%	181,584
June	7,027	39.0%	8,457	47.0%	210,824
July	8,141	45.2%	9,761	54.2%	252,375
August	8,104	45.0%	8,955	49.8%	251,230
September	7,080	39.3%	8,054	44.7%	212,402
October	6,038	33.5%	6,569	36.5%	187,168
November	5,362	29.8%	5,858	32.5%	160,855
December	5,456	30.3%	5,988	33.3%	169,140
2024	6,036	33.5%	9,761	54.2%	2,209,107

A review of flow information for the reporting period indicates that the drinking water system operated within the rated capacity specified in the MDWL, for the maximum volume of treated water that flows from the treatment subsystem to the distribution system.

Table 4. Treated Water Annual and Monthly Average and Maximum Flows with Comparison to the Effective Treatment Capacity (13,775 m³) for 2024

Treated Water Flow				
Timeframe	Average Flow (m ³ /day)	Percent of Effective Treatment Capacity	Maximum Flow (m ³ /day)	Percent of Effective Treatment Capacity
January	4,768	34.6%	5,325	38.7%
February	4,814	34.9%	5,292	38.4%
March	4,796	34.8%	5,074	36.8%
April	4,915	35.7%	5,538	40.2%
May	5,858	42.5%	7,192	52.2%
June	7,027	51.0%	8,457	61.4%
July	8,141	59.1%	9,761	70.9%
August	8,104	58.8%	8,955	65.0%
September	7,080	51.4%	8,054	58.4%
October	6,038	43.8%	6,569	47.7%
November	5,362	38.9%	5,858	42.5%
December	5,456	39.6%	5,988	43.5%
2024	6,036	43.8%	9,761	70.9%

The effective treatment capacity has been observed to be at 13,775 m³ which is below the rated capacity set out in the MDWL of 18,000 m³.

Table 5. Treated Water Annual and Monthly Average and Maximum Flowrates for 2024

Timeframe	Treated Water: Zone 1		Treated Water: Zone 2	
	Average Flowrate (l/s)	Maximum Flowrate (l/s)	Average Flowrate (l/s)	Maximum Flowrate (l/s)
January	18.95	68.96	36.23	116.19
February	18.96	69.06	36.75	114.27
March	18.48	69.00	37.03	114.81
April	18.34	68.92	38.54	118.22
May	22.47	132.41	45.33	164.98
June	28.02	98.12	53.35	118.51
July	33.23	118.39	60.99	112.20
August	33.37	69.33	60.43	120.69
September	28.45	125.53	53.49	116.08
October	24.23	117.67	45.65	112.71
November	19.67	69.38	42.39	115.17
December	19.51	112.64	43.64	114.93
2024	23.67	132.41	46.19	164.98

The applicable MDWL for the reporting period did not list a maximum allowable limit for the flowrate of water that flows into a treatment subsystem. A summary of flowrates of water that flows into the treatment system can be found in Table 7.

2.2 Raw Water

Permit to Take Water Number:	1133-AQQLPH
Allowable Maximum Raw Water Volume – Lake Huron:	18,020 m ³ /day
Allowable Maximum Raw Water Flowrate – Lake Huron:	18,000 L/min (300 L/sec)

As per the PTTW, water shall only be taken from the specified source(s) and at the rates and amounts taken as specified in the permit.

Table 6. Raw Water (Lake Huron) Monthly Average, Maximum Flow and Total Volume for 2024

Raw Water Flow – Lake Huron					
Timeframe	Average Flow (m ³ /day)	Percent of Allowable Volume	Maximum Flow (m ³ /day)	Percent of Allowable Volume	Total Volume (m ³)
January	5,338	29.6%	6,098	33.8%	165,494
February	5,380	29.9%	5,853	32.5%	156,032
March	5,272	29.3%	5,613	31.1%	163,436
April	5,343	29.7%	5,975	33.2%	160,293
May	6,371	35.4%	7,901	43.8%	197,501
June	7,715	42.8%	9,344	51.9%	231,460
July	8,863	49.2%	10,532	58.4%	274,766
August	8,896	49.4%	9,887	54.9%	275,767
September	7,739	42.9%	8,754	48.6%	232,179
October	6,566	36.4%	7,216	40.0%	203,559
November	5,841	32.4%	6,302	35.0%	175,233
December	6,017	33.4%	6,509	36.1%	186,539
2024	6,618	36.7%	10,532	58.4%	2,422,260

A review of flow information for the reporting period indicates that the system operated within the PTTW’s maximum allowable daily raw water volume.

Table 7. Raw Water (Lake Huron) Annual and Monthly Average and Maximum Flowrates for 2024

Raw Water		
Timeframe	Average Flowrate (l/s)	Maximum Flowrate (l/s)
January	61.79	221.81
February	62.27	214.61
March	61.02	228.51
April	61.84	209.81
May	73.74	257.83
June	89.30	241.61
July	102.59	236.95
August	102.96	234.61
September	89.58	239.97
October	76.00	229.72
November	67.61	201.58
December	69.65	215.52
2024	76.60	257.83

A review of flow information for the reporting period indicates that the system operated within the PTTW’s maximum allowable raw water flowrate.