A photograph of the Amabel-Sauble Water Works building, a single-story structure with a tan stone facade and a green roof. The building has several windows and doors, some with green frames. It is surrounded by snow and ice, with tall evergreen trees in the background under a cloudy sky.

2024 SECTION 22 SUMMARY REPORT

AMABEL-SAUBLE
DRINKING WATER SYSTEM

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

Prepared for the Town of South Bruce Peninsula by the Ontario Clean Water Agency



ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX



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:	220007917
Drinking-Water System Name:	Amabel-Sauble Drinking Water System
Drinking-Water System Owner:	Town of South Bruce Peninsula
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2024 – December 31, 2024

1. Issue(s) of Non-Compliance

A Ministry of Environment, Conservation and Parks (MECP) Drinking Water System Inspection was conducted on October 2, 2024 for the period covering November 17, 2023 to October 2, 2024. On December 13, 2024 the Inspection Report was issued and an inspection rating of 100% was 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 2023/2024 MECP Inspection Report

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

Table 2 summarizes incidents interpreted the Operating Authority as instances where any requirements of the Act, the regulations, the system's approval, the drinking water works permit (DWWP), the municipal drinking water licence (MDWL), and any orders applicable were not met. The Operating Authority reported the following incidents to the MECP and confirmation of whether the incidents are considered non-compliance is noted in the MECP Inspection Report and included in Table 1.

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

Incident	Duration	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 Amabel-Sauble 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):	094-101 (Issue Number: 4)
Allowable Rated Capacity:	687 m ³ /day
Allowable Flowrate into Treatment System:	N/A

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	90.2	13.1%	111.6	16.2%	2,797
February	89.4	13.0%	116.8	17.0%	2,592
March	83.0	12.1%	101.6	14.8%	2,574
April	96.6	14.1%	203.7	29.7%	2,898
May	114.6	16.7%	158.4	23.1%	3,553
June	141.6	20.6%	215.6	31.4%	4,249
July	183.5	26.7%	231.0	33.6%	5,689
August	218.6	31.8%	299.2	43.6%	6,776
September	181.8	26.5%	292.7	42.6%	5,454
October	168.8	24.6%	278.3	40.5%	5,232
November	153.3	22.3%	183.5	26.7%	4,598
December	130.0	18.9%	177.4	25.8%	4,030
2024	137.8	20.1%	299.2	43.6%	50,443

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 treated volume of treated water that flows from the treatment subsystem to the distribution system.

Table 4. Treated Water Annual and Monthly Average and Maximum Flowrates for 2024

Treated Water Flowrate		
Timeframe	Average Flowrate (L/sec)	Maximum Flowrate (L/sec)
January	1.05	24.61 ^{4a}
February	1.03	59.07 ^{4a}
March	0.96	41.55 ^{4a}
April	1.12	61.01 ^{4a}
May	1.33	63.97 ^{4a}
June	1.64	29.29 ^{4a}
July	2.13	47.36 ^{4a}
August	2.53	62.48 ^{4a}
September	2.11	61.82 ^{4a}
October	1.95	64.95 ^{4a}
November	1.77	55.28 ^{4a}
December	1.51	64.05 ^{4a}
2024	1.60	64.95^{4a}

^{4a}High maximum flowrates were a result of hydrant usage by the fire department.

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 Tables 6, 8 and 10.

2.2 Raw Water

Permit to Take Water Number:	8444-AKMQCN
Allowable Maximum Raw Water Volume - Well PW1:	687 m ³ /day
Allowable Maximum Raw Water Flowrate - Well PW1:	477 L/min (7.95 L/sec)
Allowable Maximum Volume of Raw Water - Well PW2:	687 m ³ /day
Allowable Maximum Raw Water Flowrate – Well PW2:	477 L/min (7.95 L/sec)
Allowable Maximum Raw Water Volume - Well W10 Winburk:	262 m ³ /day
Allowable Maximum Raw Water Flowrate - Well W10 Winburk:	364 L/min (6.06 L/sec)
Allowable Maximum Total Taking from Any Combination of Well PW1 and/or Well PW2 (for up to 120 days per year)	687 m ³ /day
Allowable Maximum Total Taking from Any Combination of Well PW1 and/or Well PW2	535.68 m ³ /day

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 5. Raw Water (Well PW1) Monthly Average, Maximum Flow and Total Volume for 2024

Raw Water Flow – Well PW1					
Timeframe	Average Flow (m ³ /day)	Percent of Allowable Volume	Maximum Flow (m ³ /day)	Percent of Allowable Volume	Total Volume (m ³)
January	45.6	6.6%	66.4	9.7%	1,412
February	46.9	6.8%	60.3	8.8%	1,360
March	51.2	7.5%	74.2	10.8%	1,434
April	50.8	7.4%	94.7	13.8%	1,524
May	60.6	8.8%	110.9	16.1%	1,880
June	71.8	10.5%	142.3	20.7%	2,155
July	91.4	13.3%	157.7	23.0%	2,834
August	111.6	16.2%	180.1	26.2%	3,460
September	89.2	13.0%	181.2	26.4%	2,676
October	84.7	12.3%	130.2	19.0%	2,624
November	77.7	11.3%	124.8	18.2%	2,330
December	64.6	9.4%	116.2	16.9%	2,002
2024	70.8	10.3%	181.2	26.4%	25,692

A review of flow information for the reporting period indicates that the system operated within the PTTW's maximum allowable daily raw water volume for Well PW1.

Table 6. Raw Water (Well PW1) Annual and Monthly Average and Maximum Flowrates for 2024

Raw Water Flowrate – Well PW1		
Timeframe	Average Flowrate (L/sec)	Maximum Flowrate (L/sec)
January	3.81	4.70
February	3.98	4.97
March	3.97	4.89
April	3.84	4.80
May	3.98	4.92
June	3.98	4.86
July	3.98	5.01
August	3.98	4.91
September	3.99	4.93
October	3.99	4.82
November	3.99	4.88
December	3.99	4.98
2024	3.96	5.01

A review of flow information for the reporting period indicates that the system operated within the PTTW's maximum allowable raw water flowrate for Well PW1.

Table 7. Raw Water (Well PW2) Monthly Average, Maximum Flow and Total Volume for 2024

Raw Water Flow – Well PW2					
Timeframe	Average Flow (m ³ /day)	Percent of Allowable Volume	Maximum Flow (m ³ /day)	Percent of Allowable Volume	Total Volume (m ³)
January	51.4	7.5%	75.0	10.9%	1,542
February	48.1	7.0%	61.6	9.0%	1,348
March	50.7	7.4%	72.8	10.6%	1,421
April	50.4	7.3%	93.0	13.5%	1,512
May	59.9	8.7%	109.0	15.9%	1,857
June	71.0	10.3%	139.9	20.4%	2,131
July	90.5	13.2%	155.0	22.6%	2,805
August	110.0	16.0%	170.7	24.8%	3,409
September	88.8	12.9%	176.9	25.7%	2,665
October	83.7	12.2%	127.0	18.5%	2,594
November	76.2	11.1%	121.6	17.7%	2,285
December	63.7	9.3%	113.1	16.5%	1,976
2024	70.8	10.3%	176.9	25.7%	25,545

A review of flow information for the reporting period indicates that the system operated within the PTTW's maximum allowable daily raw water volume for Well PW2.

Table 8. Raw Water (Well PW2) Annual and Monthly Average and Maximum Flowrates for 2024

Raw Water Flowrate – Well PW2		
Timeframe	Average Flowrate (L/sec)	Maximum Flowrate (L/sec)
January	4.07	4.95
February	3.90	4.83
March	3.91	4.88
April	3.78	4.88
May	3.91	4.91
June	3.91	4.91
July	3.91	4.88
August	3.90	4.92
September	3.90	4.86
October	3.91	4.91
November	3.89	4.83
December	3.90	4.91
2024	3.91	4.95

A review of flow information for the reporting period indicates that the system operated within the PTTW's maximum allowable raw water flowrate for Well PW2.

Table 9. Raw Water (Well W10 Winburk) Monthly Average, Maximum Flow and Total Volume for 2024

Raw Water Flow – Well W10 Winburk					
Timeframe	Average Flow (m ³ /day)	Percent of Allowable Volume	Maximum Flow (m ³ /day)	Percent of Allowable Volume	Total Volume (m ³)
January	0.9	0.3%	19.7	7.5%	28.9
February	1.0	0.4%	15.5	5.9%	28.5
March	2.1	0.8%	2.6	1.0%	8.6
April	0.4	0.2%	5.0	1.9%	11.9
May	0.2	0.1%	2.0	0.8%	6.0
June	0.3	0.1%	3.3	1.3%	10.1
July	0.5	0.2%	4.8	1.8%	14.5
August	0.6	0.2%	8.4	3.2%	18.8
September	2.4	0.9%	38.4	14.7%	72.4
October	0.6	0.2%	11.6	4.4%	18.0
November	0.2	0.1%	2.1	0.8%	6.5
December	0.5	0.2%	3.8	1.5%	15.6
2024	0.7	0.3%	38.4	14.7%	239.9

A review of flow information for the reporting period indicates that the system operated within the PTTW's maximum allowable daily raw water volume for Well W10 Winburk.

Table 10. Raw Water (Well W10 Winburk) Annual and Monthly Average and Maximum Flowrates for 2024

Timeframe	Raw Water Flowrate – Well W10 Winburk	
	Average Flowrate (L/sec)	Maximum Flowrate (L/sec)
January	0.48	4.63
February	0.60	5.94
March	3.03	4.00
April	0.43	4.31
May	0.33	4.02
June	0.39	4.20
July	0.47	4.32
August	0.42	4.59
September	0.46	5.63
October	2.23	3.18
November	0.28	3.04
December	0.47	4.51
2024	0.50	5.94

A review of flow information for the reporting period indicates that the system operated within the PTTW's maximum allowable raw water flowrate for Well W10 Winburk.

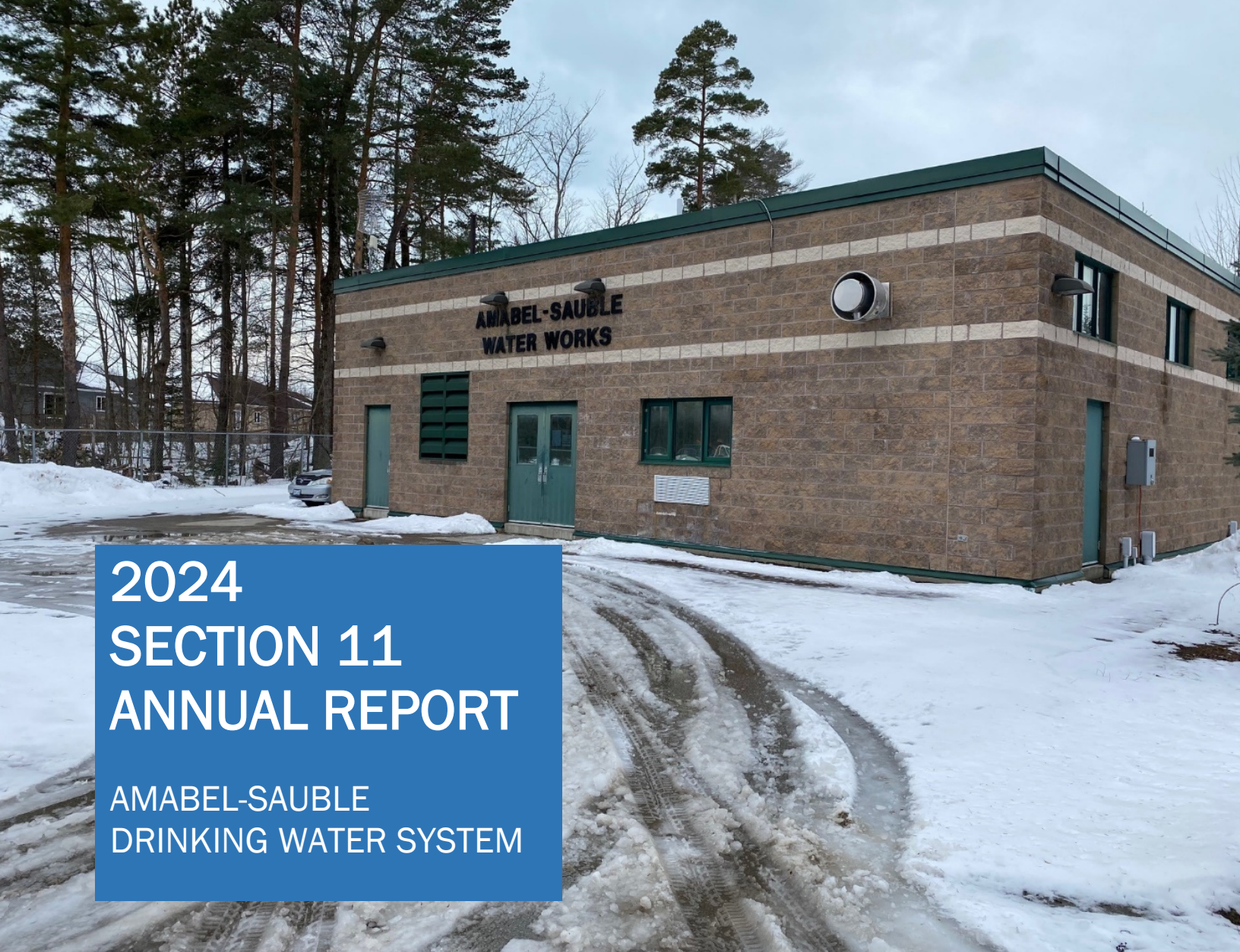
Table 11. Raw Water Monthly Average Flow for any Combination of Well PW1 and Well PW2 for 2024

Raw Water Average Flow – Any Combination of Well PW1 & Well PW2			
Timeframe	Average Flow (m ³ /day)	Percent of Allowable Volume for up to 120 days	Percent of Allowable Volume for remaining days
January	96.2	14.0%	18.0%
February	94.4	13.7%	17.6%
March	92.4	13.4%	17.2%
April	101.6	14.8%	19.0%
May	120.7	17.6%	22.5%
June	143.2	20.8%	26.7%
July	182.4	26.6%	34.1%
August	222.2	32.3%	41.5%
September	180.4	26.3%	33.7%
October	168.9	24.6%	31.5%
November	154.0	22.4%	28.7%
December	128.8	18.7%	24.0%
2024	140.6	20.5%	26.2%

Table 12. Raw Water Monthly Maximum Flow and Total Volume for any Combination of Well PW1 and Well PW2 for 2024

Raw Water Maximum Flow and Total Volume – Any Combination of Well PW1 & Well PW2					
Timeframe	Maximum Flow (m³/day)	Percent of Allowable Volume for up to 120 days	Percent of Allowable Volume for remaining days	Number of days Volume > 535.68 m³/day	Total Volume (m³)
January	149.3	21.7%	27.9%	0	2,983
February	129.2	18.8%	24.1%	0	2,736
March	147.0	21.4%	27.4%	0	2,863
April	187.6	27.3%	35.0%	0	3,049
May	219.8	32.0%	41.0%	0	3,743
June	282.1	41.1%	52.7%	0	4,296
July	312.7	45.5%	58.4%	0	5,654
August	350.8	51.1%	65.5%	0	6,888
September	358.1	52.1%	66.8%	0	5,413
October	257.2	37.4%	48.0%	0	5,237
November	246.5	35.9%	46.0%	0	4,622
December	229.3	33.4%	42.8%	0	3,994
2024	358.1	52.1%	66.8%	0	51,477

A review of flow information for the reporting period indicates that the system operated within the PTTW's maximum allowable daily total taking from any combination of Well PW1 and/or Well PW2 for up to 120 days per year and the maximum allowable daily total taking for the remaining days of the year.



2024 SECTION 11 ANNUAL REPORT

AMABEL-SAUBLE
DRINKING WATER SYSTEM

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

Prepared for the Town of South Bruce Peninsula by the Ontario Clean Water Agency

This report was prepared in accordance with the requirements of [O.Reg 170/03, Section 11, Annual reports](#) for the following system and reporting period:

Drinking Water System Number:	220007917
Drinking Water System Name:	Amabel-Sauble Drinking Water System
Drinking Water System Owner:	Town of South Bruce Peninsula
Drinking Water System Category:	Large Municipal Residential
Reporting Period:	January 1, 2024 – December 31, 2024

Does your Drinking Water System serve more than 10,000 people?

No

Is your Annual Report available to the public at no charge on a website on the Internet?

Yes

Note: If a large municipal residential system serves more than 10,000 people, the owner of the system shall ensure that a copy of every report prepared under this section is available to the public at no charge on a website on the Internet. O. Reg. 170/03, Section 11. (10)

Location where Summary Report required under O. Reg 170/03, Schedule 22 will be available for inspection. (O. Reg 170/03, Section 11.(6)(5)):

- Town of South Bruce Peninsula, 315 George Street, Wiarton ON, N0H 2T0
- <https://www.southbrucepeninsula.com/en/town-hall/water-and-sewer-reports.aspx>

List all Drinking Water Systems (if any), which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
N/A	N/A

Did you provide a copy of your annual report to all Drinking Water System owners that are connected to you and to whom you provide all of its drinking water?

N/A

How system users are notified that the annual report is available, and is free of charge:

<input checked="" type="checkbox"/>	Public access/notice via the web
<input checked="" type="checkbox"/>	Public access/notice via Government Office
<input type="checkbox"/>	Public access/notice via a newspaper
<input checked="" type="checkbox"/>	Public access/notice via Public Request
<input type="checkbox"/>	Public access/notice via a Public Library
<input type="checkbox"/>	Public access/notice via other method: _____

Note: The owner of a drinking water system shall ensure that a copy of an annual report for the system is given, without charge, to every person who requests a copy. ((O.Reg 170/03, Section 11.(7)).

Description of Drinking Water System (O.Reg 170/03, Section 11.(6)(a)):

The Amabel-Sauble Well Supply Drinking Water System (DWS) is classified as a Class II Treatment and a Class II Water Distribution Subsystem. It is categorized under O. Reg 170/03 as a Large Municipal Residential Drinking Water System, servicing an approximate population of 730 persons. The Amabel Sauble Drinking Water System is owned by the Corporation of the Town of South Bruce Peninsula and operated by the Ontario Clean Water Agency (OCWA) in South Bruce Peninsula, Ontario.

The Amabel-Sauble DWS is supplied by the following deep drilled GUDI wells:

- Well PW1
- Well PW2
- Winburk Well

The treatment system consists of:

- Sodium hypochlorite oxidation/disinfection system (for iron and manganese oxidation, primary disinfection and secondary disinfection/chemical top up)
- Filtration (for iron and manganese removal)
- Cartridge filtration (as pretreatment for ultra violet disinfection)
- UV disinfection
- Pressure tanks
- Backwash wastewater holding tank for residuals management (supernatant is discharged to a ditch and settled sludge is removed)
- SCADA Instrumentation and control systems (to control process equipment function within the plant and at each of the raw water wells)
- Reservoir/clearwell (for storage and to help achieve that required contact time for disinfection)

The distribution system for the Amabel-Sauble DWS has approximately 15.6 kilometers of distribution watermain.

List of water treatment chemicals used by the system during the reporting period (O.Reg 170/03, Section 11.(6)(a)):

- Sodium Hypochlorite 12%

Significant expenses were incurred to:

- | | |
|-------------------------------------|---------------------------------------|
| <input type="checkbox"/> | Install required equipment |
| <input type="checkbox"/> | Repair required equipment |
| <input type="checkbox"/> | Replace required equipment |
| <input checked="" type="checkbox"/> | No significant expenses were incurred |

Description of major expenses during the reporting period to install, repair or replace required equipment (O.Reg 170/03, Section 11.(6)(e)):

<ul style="list-style-type: none"> No major maintenance performed
--

Summary of any reports/notices submitted to the Ministry and/or Spills Action Centre in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 during the reporting period, including a description of any corrective actions taken under Schedule 17 or 18 (O. Reg 170/03, Section 11.(6)(b),(d)):

Incident Date (yyyy/mm/dd)	Parameter/ Notice of	Result & Unit	Summary of Reporting, Corrective Actions & Resolution
N/A	N/A	N/A	N/A

Table 1. Microbiological testing done under the Schedule 11 of Regulation 170/03 during this reporting period (O.Reg 170/03, Section 11.(6)(c)).

Location	Number of Samples	Range of E. Coli or Fecal Results		Range of Total Coliform Results		Number of HPC Samples	Range of HPC Samples	
		Min.	Max.	Min.	Max.		Min.	Max.
Raw Well #1 ^{1a}	53	0	0	0	6	N/A	N/A	N/A
Raw Well #2 ^{1a}	53	0	0	0	0	N/A	N/A	N/A
Raw Well Winburk ^{1a}	53	0	0	0	0	N/A	N/A	N/A
Treated ^{1b}	53	0	0	0	0	53	0	1
Distribution ^{1c}	106	0	0	0	0	53	0	7

Note: HPC = Heterotrophic Plate Count

Note: Units for E.Coli or Fecal Results are cfu/100 mL, units for Total Coliform Results are cfu/100 mL, units for HPC results are cfu/1mL

^{1a}O.Reg 170/03, Schedule 10-4. (1)(3) requires for a large municipal residential system that a water sample is taken at least once every week from the drinking water system's raw water, before any treatment is applied to the water and tested for E.Coli and total coliforms.

^{1b}O.Reg 170/03, Schedule 10-3 requires for a large municipal residential system that a treated water sample is taken at least once every week and tested for E.Coli, total coliforms and general bacteria population expressed as colony counts on a heterotrophic count (HPC).

^{1c}O.Reg. 170/03 Schedule 10-2.(1)(2)(3) requires that a system that serves 100,000 people or less, at least eight distribution samples, plus one additional sample for every 1,000 people served by the system to be taken every month, with at least one of the samples being taken in each week and be tested for E.Coli, Total Coliforms. At least 25 percent of the samples required must be tested for general bacteria population expressed as colony counts on heterotrophic plate count

(HPC). The number of people served by the system is 730 (as confirmed with the Owner on March 9, 2023), and therefore requires a minimum of eight samples per month.

Table 2. Operational testing done under Schedule 7 of Regulation 170/03 during the period covered by this Annual Report (O. Reg 170/03, Section 11.(6)(c)).

Parameter & Location	Number of Samples	Range of Results	
		Min.	Max.
Turbidity, Filter (NTU) ^{2a}	8760	0.02	0.45
Free Chlorine Residual, Treated Water (mg/L) ^{2b}	8760	0.56	2.05
Free Chlorine Residual, Distribution (mg/L) ^{2c}	420	0.71	1.71

Note: The number of samples used for continuous monitoring units is 8760.

^{2a}*If a drinking water system obtains water from a raw water supply that is surface water (or well water deemed as GUDI) and the system provides filtration, subsection 7-3(1) does not apply and the owner of a system shall ensure that sampling and testing for turbidity is carried out by continuous monitoring equipment on each filter effluent line (O.Reg.170/03, Schedule 7-3.(2)(b)).*

^{2b}*O.Reg 170/03 Schedule 7-2.(1) requires a drinking water system that provides chlorination for primary disinfection to sample and test for free chlorine residual with continuous monitoring equipment in the treatment process at or near a location where the intended contact time has just been completed.*

^{2c}*O.Reg 170/03 Schedule 7-2.(3) requires a large municipal residential system that provides secondary disinfection to take at least seven distribution samples each week and immediately tested for free chlorine residual, if the system provides chlorination and does not provide chloramination. Sampling for distribution free chlorine residual at the Amabel Sauble Drinking Water is taken twice a week.*

Table 3. Summary of additional testing and sampling results carried out in accordance with the requirement of an approval, municipal drinking water licence or order (including OWRA) or other legal instrument. (O. Reg 170/03, Section 11.(6)(c))

Legal Instrument & Issue Date (yyyy/mm/dd)	Parameter	Date Sampled	Number of Samples	Annual Average	Allowable Annual Average
2020-03-06 MDWL 094-101 (Issue 4)	Total Suspended Solids (Filter backwash)	2024 (Monthly)	12	2.17	25 mg/L
2020-03-06 MDWL 094-101 (Issue 4)	Total Chlorine Residual (Filter backwash)	2024 (Monthly)	12	0.01	0.02 mg/L

Table 4. Summary of Inorganic parameters tested during this reporting period or the most recent sample results (O.Reg 170/03, Section 11.(6)(c))

Parameter & Location	Sample Date ^{4a} (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Antimony: Sb (µg/L) - TW	2024/01/09	<MDL 0.6	6.0	No
Arsenic: As (µg/L) - TW	2024/01/09	0.5	10.0	No
Barium: Ba (µg/L) - TW	2024/01/09	317.0	1000.0	No
Boron: B (µg/L) - TW	2024/01/09	111.0	5000.0	No
Cadmium: Cd (µg/L) - TW	2024/01/09	<MDL 0.003	5.0	No
Chromium: Cr (µg/L) - TW	2024/01/09	0.41	50.0	No
Mercury: Hg (µg/L) - TW	2024/01/09	<MDL 0.01	1.0	No
Selenium: Se (µg/L) - TW	2024/01/09	<MDL 0.04	50.0	No
Uranium: U (µg/L) - TW	2024/01/09	0.293	20.0	No
Fluoride (mg/L) - TW	2020/01/06 ^{4b}	1.35	1.5	No
Nitrite (mg/L) - TW	2024/01/02	<MDL 0.003	1.0	No
Nitrite (mg/L) - TW	2024/04/02	<MDL 0.003	1.0	No
Nitrite (mg/L) - TW	2024/07/02	<MDL 0.003	1.0	No
Nitrite (mg/L) - TW	2024/10/07	<MDL 0.003	1.0	No
Nitrate (mg/L) - TW	2024/01/02	0.020	10.0	No
Nitrate (mg/L) - TW	2024/04/02	0.018	10.0	No
Nitrate (mg/L) - TW	2024/07/02	0.019	10.0	No
Nitrate (mg/L) - TW	2024/10/07	0.019	10.0	No

^{4a}The owner of a large municipal residential system that obtains water from a raw water supply that is surface water (or well water deemed as GUDI) shall ensure that at least one water sample for inorganics is taken every 12 months (O.Reg 170/03, Schedule 13-2.(1)). The last set of samples were collected and tested in 2024, the next set of samples are scheduled to be collected and tested in 2025.

^{4b}Fluoride is reportable every 60 months. The most recent fluoride samples were tested in 2020, the next set of samples is scheduled to be tested in 2025.

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Aesthetic Objective (AO)	Exceedance	
				AO	> 20 mg/L
Sodium: Na (mg/L) - TW	2020/01/06 ^{4b}	14.3	200	No	No

Note: MDL = Minimum Detection Limit, TW = Treated Water

Note: There is no regulatory Maximum Allowable Concentration (MAC) for Sodium. The aesthetic objective (AO) for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

^{4b}Sodium is reportable every 60 months. The most recent sodium samples were tested in 2020, the next set of reportable samples is scheduled to be tested in 2025.

Table 5: Summary of lead testing under Schedule 15.1 during this reporting period (O.Reg 170/03, Section 11.(6)(g))

Location/Type & Parameter	Number of Samples ^{5a}	Range of Results		Number of Lead Exceedances (MAC = 10 µg/L)
		Min.	Max.	
Period: January 1 to April 15				
Plumbing – Lead (µg/L) ^{5b}	N/A	N/A	N/A	N/A
Distribution – Lead (µg/L) ^{5c}	N/A	N/A	N/A	N/A
Distribution – Alkalinity (mg/L as CaCO ₃)	4	195	198	N/A
Distribution – pH	4	8.08	8.14	N/A
Period: June 15 to October 15				
Plumbing – Lead (µg/L) ^{5b}	N/A	N/A	N/A	N/A
Distribution – Lead (µg/L) ^{5c}	N/A	N/A	N/A	N/A
Distribution – Alkalinity (mg/L as CaCO ₃)	4	198	200	N/A
Distribution – pH	4	7.14	7.43	N/A
Period: December 15 to 31				
Plumbing – Lead (µg/L) ^{5b}	N/A	N/A	N/A	N/A
Distribution – Lead (µg/L) ^{5c}	N/A	N/A	N/A	N/A
Distribution – Alkalinity (mg/L as CaCO ₃)	N/A	N/A	N/A	N/A
Distribution - pH	N/A	N/A	N/A	N/A

Note: this is required for large municipal residential systems, small municipal residential systems or non-municipal year-round residential system. (O.Reg 170/03, Section 11.(6)(g))

^{5a}*This system follows a reduced sampling schedule (O.Reg. 170/03, Section 15.1.5). The number of sampling points for the system is based on the population served by the system. The number of people served by the system is 730 (as confirmed with the Owner on March 9, 2023), and therefore requires 2 distribution sampling points per sampling period.*

^{5b}*Plumbing samples are not applicable as this system qualifies for the plumbing exemption per O. Reg 170/03 Schedule 15.1-5 (9) (10).*

^{5c}*This system follows a reduced sampling schedule (O.Reg 170/03, Section 15.1.5). Distribution lead samples are collected every 36 months. The most recent set of distribution lead samples were collected within the summer period of June 15, 2022 to October 15, 2022 and winter period of December 15, 2022 to April 15, 2023. The next set of distribution lead samples is scheduled to be collected within the summer period of June 15, 2025 to October 15, 2025 and winter period of December 15, 2025 to April 15, 2026.*

Table 6: Summary of Organic parameters sampled during this reporting period or the most recent sample results (O.Reg 170/03, Section 11.(6)(c)).

Parameter & Location	Sample Date ^{6a} (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Alachlor (µg/L) - TW	2024/01/09	<MDL 0.02	5.0	No
Atrazine + N-dealkylated metabolites (µg/L) - TW	2024/01/09	<MDL 0.01	5.0	No
Azinphos-methyl (µg/L) - TW	2024/01/09	<MDL 0.05	20.0	No
Benzene (µg/L) - TW	2024/01/09	<MDL 0.32	1.0	No
Benzo(a)pyrene (µg/L) - TW	2024/01/09	<MDL 0.004	0.01	No
Bromoxynil (µg/L) - TW	2024/01/09	<MDL 0.33	5.0	No
Carbaryl (µg/L) - TW	2024/01/09	<MDL 0.05	90.0	No
Carbofuran (µg/L) - TW	2024/01/09	<MDL 0.01	90.0	No
Carbon Tetrachloride (µg/L) - TW	2024/01/09	<MDL 0.17	2.0	No
Chlorpyrifos (µg/L) - TW	2024/01/09	<MDL 0.02	90.0	No
Diazinon (µg/L) - TW	2024/01/09	<MDL 0.02	20.0	No
Dicamba (µg/L) - TW	2024/01/09	<MDL 0.2	120.0	No
1,2-Dichlorobenzene (µg/L) - TW	2024/01/09	<MDL 0.41	200.0	No
1,4-Dichlorobenzene (µg/L) - TW	2024/01/09	<MDL 0.36	5.0	No
1,2-Dichloroethane (µg/L) - TW	2024/01/09	<MDL 0.35	5.0	No
1,1-Dichloroethylene (µg/L) - TW	2024/01/09	<MDL 0.33	14.0	No
Dichloromethane (Methylene Chloride) (µg/L) - TW	2024/01/09	<MDL 0.35	50.0	No
2,4-Dichlorophenol (µg/L) - TW	2024/01/09	<MDL 0.15	900.0	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (µg/L) - TW	2024/01/09	<MDL 0.19	100.0	No
Diclofop-methyl (µg/L) - TW	2024/01/09	<MDL 0.4	9.0	No
Dimethoate (µg/L) - TW	2024/01/09	<MDL 0.06	20.0	No
Diquat (µg/L) - TW	2024/01/09	<MDL 1.0	70.0	No
Diuron (µg/L) - TW	2024/01/09	<MDL 0.03	150.0	No
Glyphosate (µg/L) - TW	2024/01/09	<MDL 1.0	280.0	No
Malathion (µg/L) - TW	2024/01/09	<MDL 0.02	190.0	No
Metolachlor (µg/L) - TW	2024/01/09	<MDL 0.01	50.0	No

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Parameter & Location	Sample Date ^{6a} (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Metribuzin (µg/L) - TW	2024/01/09	<MDL 0.02	80.0	No
Monochlorobenzene (Chlorobenzene) (µg/L) - TW	2024/01/09	<MDL 0.3	80.0	No
Paraquat (µg/L) - TW	2024/01/09	<MDL 1.0	10.0	No
PCB (µg/L) - TW	2024/01/09	<MDL 0.04	3.0	No
Pentachlorophenol (µg/L) - TW	2024/01/09	<MDL 0.15	60.0	No
Phorate (µg/L) - TW	2024/01/09	<MDL 0.01	2.0	No
Picloram (µg/L) - TW	2024/01/09	<MDL 1.0	190.0	No
Prometryne (µg/L) - TW	2024/01/09	<MDL 0.03	1.0	No
Simazine (µg/L) - TW	2024/01/09	<MDL 0.01	10.0	No
Terbufos (µg/L) - TW	2024/01/09	<MDL 0.01	1.0	No
Tetrachloroethylene (µg/L) - TW	2024/01/09	<MDL 0.35	10.0	No
2,3,4,6-Tetrachlorophenol (µg/L) - TW	2024/01/09	<MDL 0.2	100.0	No
Triallate (µg/L) - TW	2024/01/09	<MDL 0.01	230.0	No
Trichloroethylene (µg/L) - TW	2024/01/09	<MDL 0.44	5.0	No
2,4,6-Trichlorophenol (µg/L) - TW	2024/01/09	<MDL 0.25	5.0	No
2-methyl-4- chlorophenoxyacetic acid (MCPA) (µg/L) – TW	2024/01/09	<MDL 0.12	100.0	No
Trifluralin (µg/L) - TW	2024/01/09	<MDL 0.02	45.0	No
Vinyl Chloride (µg/L) - TW	2024/01/09	<MDL 0.17	1.0	No
Trihalomethane: Total (µg/L) Annual Average - DW	2024 (Quarterly)	34.5	100.0	No
HAA Total (µg/L) Annual Average - DW	2024 (Quarterly)	7.0	80.0	No

Note: MDL = Minimum Detection Limit, MAC = Maximum Allowable Concentration, TW = Treated Water, DW = Distribution Water

^{6a}The owner of a large municipal residential system that obtains water from a raw water supply that is surface water (or well water deemed as GUDI) shall ensure that at least one water sample for organics is taken every 12 months (O.Reg 170/03, Schedule 13-4.(1)). The last set of samples were collected and tested in 2024, the next set of samples are scheduled to be collected and tested in 2025.

Table 7: List of Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards for the reporting period.

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result
N/A	N/A	N/A