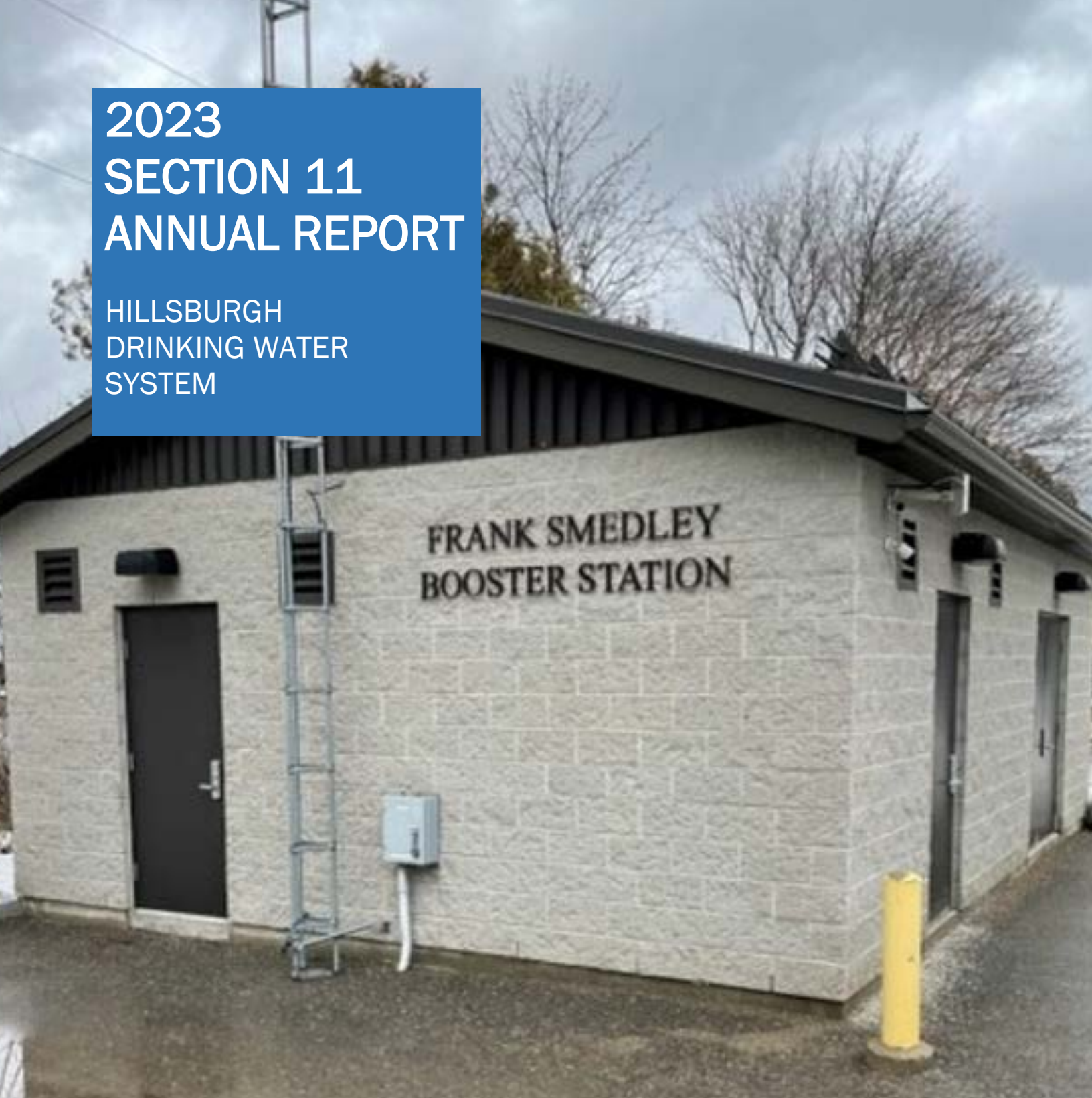


# 2023 SECTION 11 ANNUAL REPORT

HILLSBURGH  
DRINKING WATER  
SYSTEM



FRANK SMEDLEY  
BOOSTER STATION

For the period of  
January 1<sup>st</sup>, 2023 to December 31<sup>st</sup>, 2023

Prepared for the Corporation of the Town of Erin 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:

<b>Drinking-Water System Number:</b>	220007285
<b>Drinking-Water System Name:</b>	Hillsburgh Drinking Water System
<b>Drinking-Water System Owner:</b>	The Corporation of the Town of Erin
<b>Drinking-Water System Category:</b>	Large Municipal Residential
<b>Period being reported:</b>	January 1, 2023 – December 31, 2023

**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 web site 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)(f)):**

- Town of Erin Office, 5684 Trafalgar Road, Hillsburgh, Ontario, N0B 1Z0
- <https://www.erin.ca/>

*Note: this is required for large municipal residential systems or small municipal residential systems.*

**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:**

- Public access/notice via the web
- Public access/notice via Government Office
- Public access/notice via a newspaper
- Public access/notice via Public Request
- Public access/notice via a Public Library
- Public access/notice via other method: \_\_\_\_\_

**Describe your Drinking-Water System (O.Reg 170/03, Section 11.(6)(a)):**

The Hillsburgh Drinking Water System is classified as a Class I Water Treatment and Class II Water Distribution and Supply System, Large Municipal Drinking Water System, servicing an approximate population of 850 persons. The system is comprised of two pumphouses. The pumphouses include the Well H2 Hillsburgh Heights Pumphouse and Well H3 Glendevon Pumphouse which draw water from two production wells. The Hillsburgh water distribution system is divided into two pressure zones. The upper pressure zone has primarily been supplied by Well H2. The lower pressure zone has primarily been supplied by Well H3. The Frank Smedley Booster Station was completed in 2014 and mainly delivers water from the lower pressure zone to the upper pressure zone.

The raw water for the Well H2 Hillsburgh Heights pumphouse is supplied from one drilled groundwater well (Well H2). The water pumped from the well is treated with sodium hypochlorite (for primary and secondary disinfection) and ferric chloride (lead removal). The treated water is stored in an underground baffled storage reservoir/chlorine contact chamber prior to entering the distribution system. Online equipment continuously monitors and records free chlorine residual and flowrates. The pumphouse is also equipped with standby power in the event of a power failure.

The raw water for the Well H3 Glendevon pumphouse is supplied from one drilled groundwater wells (Well H3). The water pumped from the well is treated with sodium hypochlorite (for primary and secondary disinfection). The treated water is stored in a baffled storage reservoir/chlorine contact chamber prior to entering the distribution system. Online equipment continuously monitors and records free chlorine residual and flowrates. The pumphouse is planned to be equipped with standby power in the event of a power failure in 2024.

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

- Sodium Hypochlorite 12%
- Ferric Chloride

**Significant expenses were incurred to:**

- |                                     |                                       |
|-------------------------------------|---------------------------------------|
| <input type="checkbox"/>            | Install required equipment            |
| <input checked="" type="checkbox"/> | Repair required equipment             |
| <input checked="" type="checkbox"/> | Replace required equipment            |
| <input 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)):**

- Fire Flow Testing
- Pressure Relief Valve Inspection/Repairs within Well Houses
- Water Main Replacements
- Distribution Water Service Line Repairs
- UPS Replacement
- Portable Generator Hook Up

**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
2023/07/12	Microbiological Exceedances for <i>E.Coli</i> and Total Coliform in a distribution sample	<i>E.coli</i> -1 cfu/100ml  Total Coliforms- 3 cfu/100ml	<ul style="list-style-type: none"> <li>• AWQI #162549 - Distribution water sample came back positive for bacteriological presence for <i>E.Coli</i> (1 cfu/100ml) and Total Coliform (3 cfu/100ml) from a sample taken on July 11, 2023.</li> <li>• Laboratory reported detection to OCWA on July 12, 2023. OCWA notified MECP, local Health Unit and SAC on July 12, 2023. Advised by the Health Unit and Town to issue a precautionary boil water advisory (BWA) to residents until resamples results come back with zero bacteriological presences. BWA was issued July 12, 2023.</li> <li>• Sample station was flushed on July 12, 2023 and a resample was collected from the same location and two upstream locations (dead-end no downstream).</li> <li>• Resample results received back with no detect presence of <i>E.Coli</i> or Total Coliform and Local Health Unit lifted Boil Water Advisory on July 14, 2023.</li> <li>• Written notice of resolution submitted on July 14, 2023. No further actions required.</li> </ul>

**Table 1: Microbiological testing done under the Schedule 10 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 Coliforms Results		Number of HPC Samples	Range of HPC Samples	
		Min.	Max.	Min.	Max.		Min.	Max.
Raw Water - Well H2 <sup>1A</sup>	52	0	0	0	0	n/a	n/a	n/a
Raw Water - Well H3 <sup>1A</sup>	52	0	0	0	0	n/a	n/a	n/a
Treated Water – Well H2 <sup>1B</sup>	52	0	0	0	0	52	0	1
Treated Water – Well H3 <sup>1B</sup>	52	0	0	0	0	52	0	0
Distribution Water <sup>1C</sup>	110	0	1 <sup>1D</sup>	0	3 <sup>1D</sup>	104	0	6

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

<sup>1A</sup>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.

<sup>1B</sup>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).

<sup>1C</sup> 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 distribution sample for every 1,000 people served by the system, are taken every month, with at least one of the samples being taken in each week and that each of the samples taken is 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). As of 2023, the population of Hillsburgh is 850 persons, as confirmed by the owner on November 2, 2022 and thus requires at the minimum 8 monthly distribution samples.

<sup>1D</sup>AWQI #162549- Detection of E.Coli and Total Coliform in a distribution sample taken July 11, 2023. See table Summary of any reports/notices submitted to the Ministry and/or Spills Action Centre, for more details.

**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 (NTU) - Raw Water - Well H2 <sup>2A</sup>	12	0.11	0.59
Turbidity (NTU) - Raw Water - Well H3 <sup>2A</sup>	12	0.13	0.69
Free Chlorine Residual, On-Line (mg/L) – TW Well H2 <sup>2B</sup>	8760	0.58	1.73
Free Chlorine Residual, On-Line (mg/L) – TW Well H3 <sup>2B</sup>	8760	0.28	2.00
Free Chlorine Residual, On-line Distribution Water (mg/L) – DW <sup>2C</sup>	8760	0.39	1.45

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

<sup>2A</sup>O.Reg 170/03 Schedule 7-3.(1)(1.1) requires a raw water sample be taken at least once every month from each well that is supplying water to the system and tested for turbidity.

<sup>2B</sup>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.

<sup>2C</sup>O.Reg 170/03 Schedule 7-2.(3)(4) 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, unless at least one sample is taken on each day of the week. At the Hillsburgh DWS, secondary disinfection is monitored through an online continuous free chlorine analyzer.

**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 during the reporting period and if tests required under this Regulation in respect of a parameter were not required during that period, summarize the most recent results of tests of that parameter (O. Reg 170/03, Section 11.(6)(c)):**

Legal Instrument & Issue Date (yyyy/mm/dd)	Sample Location & Parameter	Sampling Frequency	Sample Date (yyyy/mm/dd)	Sample Results
Municipal Drinking Water License (MDWL) 102-102, Issue 4 2020/11/02	Raw Water Lead <sup>3A</sup>	Quarterly	2023/01/11	8.3 µg/L
			2023/04/11	8.3 µg/L
			2023/07/11	8.8 µg/L
			2023/10/17	8.8 µg/L
	Treated Water Lead <sup>3A</sup>	Quarterly	2023/01/11	3.6 µg/L
			2023/04/11	4.1 µg/L
			2023/07/11	4.9 µg/L
			2023/10/17	3.3 µg/L
	Raw Water (Well No. H2) Gross Alpha <sup>3B</sup>	Every 36 months	2022/01/18	0.94 Bq/L

Legal Instrument & Issue Date (yyyy/mm/dd)	Sample Location & Parameter	Sampling Frequency	Sample Date (yyyy/mm/dd)	Sample Results
	Raw Water (Well No. H2) Gross Beta <sup>3B</sup>	Every 36 months	2022/01/18	0.19 Bq/L

<sup>3A</sup>As per MDWL Section 5.0 (Table 5) Lead is required to be tested on a quarterly basis at Hillsburgh Heights Well 2 – Raw water sampling location and at a point prior to the treated water entering the distribution system.

<sup>3B</sup>As per MDWL Section 5.0 (Table 5) Gross Alpha and Gross Beta is required every 36 months at the Hillsburgh Heights Well 2 – Raw water sampling location. The most recent set of samples were taken in January, 2022 and the next set of samples are scheduled to be completed in January, 2025.

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

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Antimony: Sb (µg/L) - TW2	2021/05/18	0.5	6.0	No
Antimony: Sb (µg/L) - TW3	2021/05/18	0.5	6.0	No
Arsenic: As (µg/L) - TW2	2021/05/18	1.0	10.0	No
Arsenic: As (µg/L) - TW3	2021/05/18	1.1	10.0	No
Barium: Ba (µg/L) - TW2	2021/05/18	50.0	1000.0	No
Barium: Ba (µg/L) - TW3	2021/05/18	21.0	1000.0	No
Boron: B (µg/L) - TW2	2021/05/18	18.0	5000.0	No
Boron: B (µg/L) - TW3	2021/05/18	31.0	5000.0	No
Cadmium: Cd (µg/L) - TW2	2021/05/18	0.09	5.0	No
Cadmium: Cd (µg/L) - TW3	2021/05/18	0.09	5.0	No
Chromium: Cr (µg/L) - TW2	2021/05/18	5.0	50.0	No
Chromium: Cr (µg/L) - TW3	2021/05/18	5.0	50.0	No
Mercury: Hg (µg/L) - TW2	2021/05/18	0.1	1.0	No
Mercury: Hg (µg/L) - TW3	2021/05/18	0.1	1.0	No
Selenium: Se (µg/L) - TW2	2021/05/18	2.0	50.0	No
Selenium: Se (µg/L) - TW3	2021/05/18	2.0	50.0	No
Uranium: U (µg/L) - TW2	2021/05/18	2.9	20.0	No
Uranium: U (µg/L) - TW3	2021/05/18	0.68	20.0	No
<b>Additional Inorganics</b>				
Fluoride (mg/L) - TW2	2023/05/24 <sup>4B</sup>	0.80	1.5	No
Fluoride (mg/L) - TW3	2023/05/24 <sup>4B</sup>	0.68	1.5	No
Nitrite (mg/L) - TW2	2023/01/11	0.01	1.0	No
Nitrite (mg/L) - TW2	2023/04/11	0.01	1.0	No
Nitrite (mg/L) - TW2	2023/07/11	0.01	1.0	No

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Nitrite (mg/L) - TW2	2023/10/17	0.01	1.0	No
Nitrite (mg/L) - TW3	2023/01/11	0.01	1.0	No
Nitrite (mg/L) - TW3	2023/04/11	0.01	1.0	No
Nitrite (mg/L) - TW3	2023/07/11	0.01	1.0	No
Nitrite (mg/L) - TW3	2023/10/17	0.01	1.0	No
Nitrate (mg/L) - TW2	2023/01/11	1.34	10.0	No
Nitrate (mg/L) - TW2	2023/04/11	1.23	10.0	No
Nitrate (mg/L) - TW2	2023/07/11	1.34	10.0	No
Nitrate (mg/L) - TW2	2023/10/17	1.21	10.0	No
Nitrate (mg/L) - TW3	2023/01/11	0.15	10.0	No
Nitrate (mg/L) - TW3	2023/04/11	0.12	10.0	No
Nitrate (mg/L) - TW3	2023/07/11	0.1	10.0	No
Nitrate (mg/L) - TW3	2023/10/17	0.1	10.0	No

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Aesthetic Objective (AO)	Exceedance	
				AO	> 20 mg/L
Sodium: Na (mg/L) – TW2	2023/05/26 <sup>4C</sup>	15.0	200	No	No
Sodium: Na (mg/L) – TW3	2023/05/26 <sup>4C</sup>	13.0	200	No	No

Note: MDL = Minimum Detection Limit

Note: There is no regulatory Maximum Allowable Concentration (MAC) 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.

<sup>4A</sup>Inorganic Parameters (Schedule 23) are required to be tested every 36 months for a large municipal residential system (O. Reg 170/03 Schedule 13-2.(1)). The last set of samples was collected and tested in 2021, the next set of samples is scheduled to be collected and tested in 2024.

<sup>4B</sup>Fluoride is reportable every 60 months. The most recent fluoride samples were taken in 2023. The next set of fluoride and sodium samples is scheduled to be tested in 2028.

<sup>4C</sup>Sodium is reportable every 60 months. The most recent sodium samples were taken in 2023. The next set of sodium samples is scheduled to be collected in 2028.



**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	Range of Results		Number of Lead Exceedances (MAC = 10 µ/L)
		Min.	Max.	
<b>Period: January 1 to April 15</b>				
Plumbing – Lead (µg/L) <sup>5B</sup>	N/A	N/A	N/A	0
Distribution – Lead (µg/L) <sup>5C</sup>	3	2.0	2.6	0
Distribution – Alkalinity (mg/L as CaCO <sub>3</sub> )	3	210	210	N/A
Distribution – pH	3	7.70	7.70	N/A
<b>Period: June 15 to October 15</b>				
Plumbing – Lead (µg/L) <sup>5B</sup>	N/A	N/A	N/A	0
Distribution – Lead (µg/L) <sup>5C</sup>	3	0.76	2.0	0
Distribution – Alkalinity (mg/L as CaCO <sub>3</sub> )	3	190	220	N/A
Distribution – pH	3	7.34	7.34	N/A
<b>Period: December 15 to 31</b>				
Plumbing – Lead (µg/L) <sup>5B</sup>	N/A	N/A	N/A	0
Distribution – Lead (µg/L) <sup>5C</sup>	N/A	N/A	N/A	0
Distribution – Alkalinity (mg/L as CaCO <sub>3</sub> )	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.*

<sup>5A</sup>*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 850 persons (as confirmed with the Owner on November 2, 2022) and therefore requires 2 distribution sampling points per sampling period. OCWA routinely takes 3 distribution lead samples per sampling period as a best practice.*

<sup>5B</sup>*Plumbing samples are not applicable as this system qualifies for the plumbing exemption per O. Reg 170/03 Schedule 15.1-5 (9) (10).*

<sup>5C</sup>*Distribution lead samples are required to be taken every 36 months. The most recent set of samples were taken in the winter period of December 15, 2021 to April 15, 2022 and summer period of June 15, 2022 to October 15, 2022. An additional set off distribution lead samples were taken in the winter period of December 15, 2022 to April 15, 2023 and summer period of June 15, 2023 to October 15, 2023. The next set of required distribution lead samples is scheduled to be sampled during the winter period of December 15, 2024 to April 15, 2025 and summer period of June 15, 2025 to October 15, 2025.*

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

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Alachlor (µg/L) - TW2	2021/05/18	0.5	5.0	No
Alachlor (µg/L) - TW3	2021/05/18	0.5	5.0	No
Azinphos-methyl (µg/L) - TW2	2021/05/18	2.0	20.0	No
Azinphos-methyl (µg/L) - TW3	2021/05/18	2.0	20.0	No
Benzene (µg/L) - TW2	2021/05/18	0.1	1.0	No
Benzene (µg/L) - TW3	2021/05/18	0.1	1.0	No
Benzo(a)pyrene (µg/L) - TW2	2021/05/18	0.005	0.01	No
Benzo(a)pyrene (µg/L) - TW3	2021/05/18	0.005	0.01	No
Bromoxynil (µg/L) - TW2	2021/05/18	0.5	5.0	No
Bromoxynil (µg/L) - TW3	2021/05/18	0.5	5.0	No
Carbaryl (µg/L) - TW2	2021/05/18	5.0	90.0	No
Carbaryl (µg/L) - TW3	2021/05/18	5.0	90.0	No
Carbofuran (µg/L) - TW2	2021/05/18	5.0	90.0	No
Carbofuran (µg/L) - TW3	2021/05/18	5.0	90.0	No
Carbon Tetrachloride (µg/L) - TW2	2021/05/18	0.1	2.0	No
Carbon Tetrachloride (µg/L) - TW3	2021/05/18	0.1	2.0	No
Chlorpyrifos (µg/L) - TW2	2021/05/18	1.0	90.0	No
Chlorpyrifos (µg/L) - TW3	2021/05/18	1.0	90.0	No
Diazinon (µg/L) - TW2	2021/05/18	1.0	20.0	No
Diazinon (µg/L) - TW3	2021/05/18	1.0	20.0	No
Dicamba (µg/L) - TW2	2021/05/18	1.0	120.0	No
Dicamba (µg/L) - TW3	2021/05/18	1.0	120.0	No
1,2-Dichlorobenzene (µg/L) - TW2	2021/05/18	0.2	200.0	No
1,2-Dichlorobenzene (µg/L) - TW3	2021/05/18	0.2	200.0	No
1,4-Dichlorobenzene (µg/L) - TW2	2021/05/18	0.2	5.0	No
1,4-Dichlorobenzene (µg/L) - TW3	2021/05/18	0.2	5.0	No
1,2-Dichloroethane (µg/L) - TW2	2021/05/18	0.2	5.0	No
1,2-Dichloroethane (µg/L) - TW3	2021/05/18	0.2	5.0	No
1,1-Dichloroethylene (µg/L) - TW2	2021/05/18	0.1	14.0	No
1,1-Dichloroethylene (µg/L) - TW3	2021/05/18	0.1	14.0	No
Dichloromethane (Methylene Chloride) (µg/L) - TW2	2021/05/18	0.5	50.0	No
Dichloromethane (Methylene Chloride) (µg/L) - TW3	2021/05/18	0.5	50.0	No
2,4-Dichlorophenol (µg/L) - TW2	2021/05/18	0.25	900.0	No
2,4-Dichlorophenol (µg/L) - TW3	2021/05/18	0.25	900.0	No

<b>Parameter &amp; Location</b>	<b>Sample Date (yyyy/mm/dd)</b>	<b>Sample Result</b>	<b>Maximum Allowable Concentration (MAC)</b>	<b>Exceedance of MAC</b>
2,4-Dichlorophenoxy acetic acid (2,4-D) (µg/L) - TW2	2021/05/18	1.0	100.0	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (µg/L) - TW3	2021/05/18	1.0	100.0	No
Diclofop-methyl (µg/L) - TW2	2021/05/18	0.9	9.0	No
Diclofop-methyl (µg/L) - TW3	2021/05/18	0.9	9.0	No
Dimethoate (µg/L) - TW2	2021/05/18	2.5	20.0	No
Dimethoate (µg/L) - TW3	2021/05/18	2.5	20.0	No
Diquat (µg/L) - TW2	2021/05/18	7.0	70.0	No
Diquat (µg/L) - TW3	2021/05/18	7.0	70.0	No
Diuron (µg/L) - TW2	2021/05/18	10.0	150.0	No
Diuron (µg/L) - TW3	2021/05/18	10.0	150.0	No
Glyphosate (µg/L) - TW2	2021/05/18	10.0	280.0	No
Glyphosate (µg/L) - TW3	2021/05/18	10.0	280.0	No
Malathion (µg/L) - TW2	2021/05/18	5.0	190.0	No
Malathion (µg/L) - TW3	2021/05/18	5.0	190.0	No
Metolachlor (µg/L) - TW2	2021/05/18	0.5	50.0	No
Metolachlor (µg/L) - TW3	2021/05/18	0.5	50.0	No
Metribuzin (µg/L) - TW2	2021/05/18	5.0	80.0	No
Metribuzin (µg/L) - TW3	2021/05/18	5.0	80.0	No
Monochlorobenzene (Chlorobenzene) (µg/L) - TW2	2021/05/18	0.1	80.0	No
Monochlorobenzene (Chlorobenzene) (µg/L) - TW3	2021/05/18	0.1	80.0	No
Paraquat (µg/L) - TW2	2021/05/18	1.0	10.0	No
Paraquat (µg/L) - TW3	2021/05/18	1.0	10.0	No
PCB (µg/L) - TW2	2021/05/18	0.05	3.0	No
PCB (µg/L) - TW3	2021/05/18	0.05	3.0	No
Pentachlorophenol (µg/L) - TW2	2021/05/18	0.5	60.0	No
Pentachlorophenol (µg/L) - TW3	2021/05/18	0.5	60.0	No
Phorate (µg/L) - TW2	2021/05/18	0.5	2.0	No
Phorate (µg/L) - TW3	2021/05/18	0.5	2.0	No
Picloram (µg/L) - TW2	2021/05/18	5.0	190.0	No
Picloram (µg/L) - TW3	2021/05/18	5.0	190.0	No
Prometryne (µg/L) - TW2	2021/05/18	0.25	1.0	No
Prometryne (µg/L) - TW3	2021/05/18	0.25	1.0	No
Simazine (µg/L) - TW2	2021/05/18	1.0	10.0	No
Simazine (µg/L) - TW3	2021/05/18	1.0	10.0	No

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Terbufos (µg/L) - TW2	2021/05/18	0.5	1.0	No
Terbufos (µg/L) - TW3	2021/05/18	0.5	1.0	No
Tetrachloroethylene (µg/L) - TW2	2021/05/18	0.1	10.0	No
Tetrachloroethylene (µg/L) - TW3	2021/05/18	0.1	10.0	No
2,3,4,6-Tetrachlorophenol (µg/L) - TW2	2021/05/18	0.5	100.0	No
2,3,4,6-Tetrachlorophenol (µg/L) - TW3	2021/05/18	0.5	100.0	No
Triallate (µg/L) - TW2	2021/05/18	1.0	230.0	No
Triallate (µg/L) - TW3	2021/05/18	1.0	230.0	No
Trichloroethylene (µg/L) - TW2	2021/05/18	0.1	5.0	No
Trichloroethylene (µg/L) - TW3	2021/05/18	0.1	5.0	No
2,4,6-Trichlorophenol (µg/L) - TW2	2021/05/18	0.5	5.0	No
2,4,6-Trichlorophenol (µg/L) - TW3	2021/05/18	0.5	5.0	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (µg/L) - TW2	2021/05/18	10.0	100.0	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (µg/L) - TW3	2021/05/18	10.0	100.0	No
Trifluralin (µg/L) - TW2	2021/05/18	1.0	45.0	No
Trifluralin (µg/L) - TW3	2021/05/18	1.0	45.0	No
Vinyl Chloride (µg/L) - TW2	2021/05/18	0.2	1.0	No
Vinyl Chloride (µg/L) - TW3	2021/05/18	0.2	1.0	No
Trihalomethane: Total (ug/L) Annual Average - DW	2023 (Quarterly)	9.97	100.0	No
HAA Total (ug/L) Annual Average - DW	2023 (Quarterly)	5.0	80.0	No

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

<sup>6A</sup>Organic Parameters (Schedule 24) are required to be tested every 36 months for a large municipal residential system (O. Reg 170/03 Schedule 13-4.(1)). The last set of samples was collected and tested in 2021, the next set of samples is scheduled to be collected and tested in 2024.

**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