

For the period of January 1st, 2022 to December 31st, 2022

Prepared for the Corporation of the Town of Erin by the Ontario Clean Water Agency





Section 11 Annual Report: January 1, 2022 to December 31, 2022

Town of Erin: Hillsburgh Drinking Water System

This report was prepared in accordance with the requirements of <u>O.Req 170/03, Section 11,</u>
<u>Annual reports</u> for the following system and reporting period:

Drinking-Water System Number:220007285Drinking-Water System Name:Hillsburgh Drinking Water SystemDrinking-Water System Owner:The Corporation of the Town of ErinDrinking-Water System Category:Large Municipal ResidentialPeriod being reported:January 1, 2022 – December 31, 2022

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, NOB 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:

Χ	Public access/notice via the web
Χ	Public access/notice via Government Office
	Public access/notice via a newspaper
Χ	Public access/notice via Public Request
	Public access/notice via a Public Library

Drinking-Water Systems Regulation O. Reg. 170/03
Section 11 Annual Report: January 1, 2022 to December 31, 2022
Town of Erin: Hillsburgh Drinking Water System
Public access/notice via other method:
Public access/flotice 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 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.
l_, _ , _ , _ , _ , _ , _ , _ , _ , _ ,
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 also equipped with standby power in the event of a power failure.
List of water treatment chemicals used by the system during the reporting period
(O.Reg 170/03, Section 11.(6)(a)): • Sodium Hypochlorite 12%
Sodium Hypochlorite 12%Ferric Chloride
- Terric Cilionae
Significant expenses were incurred to:
Install required equipment
Y Denois required equipment

- X | Repair required equipment
- Replace required equipment
 - 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)):

- Auto Dialer Replacement
- Analyzer Flow Cell Replacement
- Generator Transfer Switch

Town of Erin: Hillsburgh Drinking Water System

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):

(O.Reg 170/03	, Section 11.	(o)(o),(a):	
Incident Date (yyyy/mm/dd)	Parameter/ Notice of	Result & Unit	Reporting Summary, Corrective Actions & Resolution
2022/09/20	Lead	17 μg/L	 AWQI #160104 - Distribution water lead concentration exceeded the regulatory standard (10 μg/L). Laboratory reported exceedance to OCWA on September 23, 2022. OCWA notified MECP, local Health Unit and SAC on September 23, 2022. Sample station was flushed on September 23, 2022 and a resample was collected from the same location. No additional actions required by the Health Unit or MECP. Resample results received on September 29, 2022, results were within regulatory requirements (2.2 μg/L). Written notice of resolution submitted on October 3, 2022. No further actions required.

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	Coli o	e of E. r Fecal ults	Range of Total Coliforms Results		Number of HPC	_	e of HPC nples
		Min.	Max.	Min.	Max.	Samples	Min.	Max.
Raw Water - Well H2	52	0	0	0	52	n/a	n/a	n/a
Raw Water - Well H3	52	0	0	0	52	n/a	n/a	n/a
Treated Water – Well H2	52	0	0	0	0	52	0	12
Treated Water – Well H3	52	0	0	0	0	52	0	1
Distribution Water ^{1A}	104	0	0	0	0	104	0	1

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

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The number of people served by the system is 850.

^{1A}As per O.Reg 170/03 Schedule 10-2.(a),(3) if the system 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 and at least 25% of the samples are tested for HPC

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)).

Dovometer 9 Lecation	Number of	Range of Results		
Parameter & Location	Samples	Min.	Max.	
Turbidity (NTU) - Raw Water - Well H2	12	0.09	0.32	
Turbidity (NTU) - Raw Water - Well H3	12	0.07	0.76	
Free Chlorine Residual, On-Line (mg/L) – TW Well H2	8760	0.59	1.63	
Free Chlorine Residual, On-Line (mg/L) – TW Well H3	8760	0.24	2	
Free Chlorine Residual, In-House (mg/L) - DW	8760	0.33	1.64	

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

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
			2022/01/10	8.4 μg/L
	Raw Water	Quarterly	2022/04/04	8.8 μg/L
	Lead ^a	Quarterly	2022/07/13	9.2 μg/L
			2022/10/04	8.9 μg/L
Municipal Drinking		l Quarterly H	2022/01/10	5.0 μg/L
Municipal Drinking Water License	Treated Water Lead ^a		2022/04/04	5.5 μg/L
(MDWL)			2022/07/13	6.8 μg/L
102-102, Issue 4			2022/10/04	3.7 μg/L
2020/11/02	Raw Water (Well No. H2) Gross Alpha ^b	Every 36 months	2022/01/18	0.94 Bq/L
	Raw Water (Well No. H2) Gross Beta ^b Every 36 months		2022/01/18	0.19 Bq/L

^aAs per MDWL Section 5.0 (Table 5) Lead is required on a quarterly basis at the Hillsburgh Heights Well 2 – Raw water sampling location and at a point prior to the treated water entering the distribution.

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^bAs 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. Next set of sampling is scheduled to be completed in 2025.

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))

			Maximum	
Davamatar O Lacation	Sample Date	Sample	Allowable	Exceedance
Parameter & Location	(yyyy/mm/dd)	Result	Concentration	of MAC
			(MAC)	
Antimony: Sb (ug/L) - TW2	2021/05/18	0.5	6.0	No
Antimony: Sb (ug/L) - TW3	2021/05/18	0.5	6.0	No
Arsenic: As (ug/L) - TW2	2021/05/18	1.0	10.0	No
Arsenic: As (ug/L) - TW3	2021/05/18	1.1	10.0	No
Barium: Ba (ug/L) - TW2	2021/05/18	50.0	1000.0	No
Barium: Ba (ug/L) - TW3	2021/05/18	21.0	1000.0	No
Boron: B (ug/L) - TW2	2021/05/18	18.0	5000.0	No
Boron: B (ug/L) - TW3	2021/05/18	31.0	5000.0	No
Cadmium: Cd (ug/L) - TW2	2021/05/18	0.09	5.0	No
Cadmium: Cd (ug/L) - TW3	2021/05/18	0.09	5.0	No
Chromium: Cr (ug/L) - TW2	2021/05/18	5.0	50.0	No
Chromium: Cr (ug/L) - TW3	2021/05/18	5.0	50.0	No
Mercury: Hg (ug/L) - TW2	2021/05/18	0.1	1.0	No
Mercury: Hg (ug/L) - TW3	2021/05/18	0.1	1.0	No
Selenium: Se (ug/L) - TW2	2021/05/18	2.0	50.0	No
Selenium: Se (ug/L) - TW3	2021/05/18	2.0	50.0	No
Uranium: U (ug/L) - TW2	2021/05/18	2.9	20.0	No
Uranium: U (ug/L) - TW3	2021/05/18	0.68	20.0	No
Additional Inorganics				
Fluoride (mg/L) - TW2	2018/05/09	0.87	1.5	No
Fluoride (mg/L) - TW3	2018/05/09	0.60	1.5	No
Nitrite (mg/L) - TW2	2022/01/19	0.01	1.0	No
Nitrite (mg/L) - TW2	2022/04/04	0.01	1.0	No
Nitrite (mg/L) - TW2	2022/07/13	0.01	1.0	No
Nitrite (mg/L) - TW2	2022/10/04	0.023	1.0	No
Nitrite (mg/L) - TW3	2022/01/19	0.01	1.0	No
Nitrite (mg/L) - TW3	2022/04/04	0.01	1.0	No
Nitrite (mg/L) - TW3	2022/07/13	0.01	1.0	No
Nitrite (mg/L) - TW3	2022/10/04	0.01	1.0	No
Nitrate (mg/L) - TW2	2022/01/19	1.32	10.0	No
Nitrate (mg/L) - TW2	2022/04/04	1.29	10.0	No
Nitrate (mg/L) - TW2	2022/07/13	1.33	10.0	No

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Nitrate (mg/L) - TW2	2022/10/04	1.14	10.0	No
Nitrate (mg/L) - TW3	2022/01/19	0.1	10.0	No
Nitrate (mg/L) - TW3	2022/04/04	0.13	10.0	No
Nitrate (mg/L) - TW3	2022/07/13	0.17	10.0	No
Nitrate (mg/L) - TW3	2022/10/04	0.13	10.0	No

Parameter & Location	Sample Date	Sample	mple Aesthetic		Exceedance		
Parameter & Location	(yyyy/mm/dd)	Result	Objective (AO)	AO	> 20 mg/L		
Sodium: Na (mg/L) – TW2	2018/05/09 ^{4A}	14.0	200 ^{4B}	No	No		
Sodium: Na (mg/L) – TW3	2018/05/09 ^{4A}	11.0	200 ^{4B}	No	No		

Note: MDL = Minimum Detection Limit

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	Range o	f Results	Number of Lead Exceedances		
Location, type & Parameter	Samples	Min.	Max.	(MAC = 10 μ/L)		
Period: January 1 to April 15						
Plumbing – Lead (μg/L) ^{5B}	N/A	N/A	N/A	0		
Distribution – Lead (μg/L) 5C	3	0.82	4.30	0		
Distribution – Alkalinity (mg/L as	3	190	210	N/A		
CaCO₃)						
Distribution – pH	3	7.60	8.20	N/A		
Period: J	une 15 to O	ctober 15				
Plumbing – Lead (μg/L) ^{5B}	N/A	N/A	N/A	0		
Distribution – Lead (μg/L) 5C	4	1.5	17	1		
Distribution – Alkalinity (mg/L as	4	190	230	N/A		
CaCO₃)						
Distribution – pH	4	7.70	8.40	N/A		
Period: December 15 to 31						
Plumbing – Lead (μg/L) ^{5B}	N/A	N/A	N/A	0		
Distribution – Lead (μg/L) ^{5C}	N/A	N/A	N/A	0		

^{4A}Fluoride and Sodium are reportable every 60 months. The next set of fluoride and sodium samples is scheduled to be tested in 2023.

^{4B}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.

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Distribution – Alkalinity (mg/L as	N/A	N/A	N/A	N/A
CaCO ₃)				
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.

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	Sample	Maximum Allowable	Exceedance
	(yyyy/mm/dd)	Result	Concentration	of MAC
			(MAC)	
Alachlor (ug/L) - TW2	2021/05/18	0.5	5.0	No
Alachlor (ug/L) - TW3	2021/05/18	0.5	5.0	No
Azinphos-methyl (ug/L) - TW2	2021/05/18	2.0	20.0	No
Azinphos-methyl (ug/L) - TW3	2021/05/18	2.0	20.0	No
Benzene (ug/L) - TW2	2021/05/18	0.1	1.0	No
Benzene (ug/L) - TW3	2021/05/18	0.1	1.0	No
Benzo(a)pyrene (ug/L) - TW2	2021/05/18	0.005	0.01	No
Benzo(a)pyrene (ug/L) - TW3	2021/05/18	0.005	0.01	No
Bromoxynil (ug/L) - TW2	2021/05/18	0.5	5.0	No
Bromoxynil (ug/L) - TW3	2021/05/18	0.5	5.0	No
Carbaryl (ug/L) - TW2	2021/05/18	5.0	90.0	No
Carbaryl (ug/L) - TW3	2021/05/18	5.0	90.0	No
Carbofuran (ug/L) - TW2	2021/05/18	5.0	90.0	No
Carbofuran (ug/L) - TW3	2021/05/18	5.0	90.0	No
Carbon Tetrachloride (ug/L) -				
TW2	2021/05/18	0.1	2.0	No
Carbon Tetrachloride (ug/L) -	2021/05/18	0.1	2.0	No
TW3	2021/03/10	0.1	2.0	INU
Chlorpyrifos (ug/L) - TW2	2021/05/18	1.0	90.0	No
Chlorpyrifos (ug/L) - TW3	2021/05/18	1.0	90.0	No
Diazinon (ug/L) - TW2	2021/05/18	1.0	20.0	No

^{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 and therefore requires 3 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}Distribution lead samples are taken every 36 months. The next set of 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.

Town of Erin: Hillsburgh Drinking Water System

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Diazinon (ug/L) - TW3	2021/05/18	1.0	20.0	No
Dicamba (ug/L) - TW2	2021/05/18	1.0	120.0	No
Dicamba (ug/L) - TW3	2021/05/18	1.0	120.0	No
1,2-Dichlorobenzene (ug/L) -				
TW2	2021/05/18	0.2	200.0	No
1,2-Dichlorobenzene (ug/L) - TW3	2021/05/18	0.2	200.0	No
1,4-Dichlorobenzene (ug/L) -				
TW2	2021/05/18	0.2	5.0	No
1,4-Dichlorobenzene (ug/L) - TW3	2021/05/18	0.2	5.0	No
1,2-Dichloroethane (ug/L) - TW2	2021/05/18	0.2	5.0	No
1,2-Dichloroethane (ug/L) - TW3	2021/05/18	0.2	5.0	No
1,1-Dichloroethylene (ug/L) - TW2	2021/05/18	0.1	14.0	No
1,1-Dichloroethylene (ug/L) - TW3	2021/05/18	0.1	14.0	No
Dichloromethane (Methylene				
Chloride) (ug/L) - TW2	2021/05/18	0.5	50.0	No
Dichloromethane (Methylene Chloride) (ug/L) - TW3	2021/05/18	0.5	50.0	No
2,4-Dichlorophenol (ug/L) - TW2	2021/05/18	0.25	900.0	No
2,4-Dichlorophenol (ug/L) - TW3	2021/05/18	0.25	900.0	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW2	2021/05/18	1.0	100.0	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW3	2021/05/18	1.0	100.0	No
Diclofop-methyl (ug/L) - TW2	2021/05/18	0.9	9.0	No
Diclofop-methyl (ug/L) - TW3	2021/05/18	0.9	9.0	No
Dimethoate (ug/L) - TW2	2021/05/18	2.5	20.0	No
Dimethoate (ug/L) - TW3	2021/05/18	2.5	20.0	No
Diquat (ug/L) - TW2	2021/05/18	7.0	70.0	No
Diquat (ug/L) - TW3	2021/05/18	7.0	70.0	No
Diuron (ug/L) - TW2	2021/05/18	10.0	150.0	No
Diuron (ug/L) - TW3	2021/05/18	10.0	150.0	No
Glyphosate (ug/L) - TW2	2021/05/18	10.0	280.0	No
Glyphosate (ug/L) - TW3	2021/05/18	10.0	280.0	No
Malathion (ug/L) - TW2	2021/05/18	5.0	190.0	No

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Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Malathion (ug/L) - TW3	2021/05/18	5.0	190.0	No
Metolachlor (ug/L) - TW2	2021/05/18	0.5	50.0	No
Metolachlor (ug/L) - TW3	2021/05/18	0.5	50.0	No
Metribuzin (ug/L) - TW2	2021/05/18	5.0	80.0	No
Metribuzin (ug/L) - TW3	2021/05/18	5.0	80.0	No
Monochlorobenzene				
(Chlorobenzene) (ug/L) - TW2	2021/05/18	0.1	80.0	No
Monochlorobenzene (Chlorobenzene) (ug/L) - TW3	2021/05/18	0.1	80.0	No
Paraquat (ug/L) - TW2	2021/05/18	1.0	10.0	No
Paraquat (ug/L) - TW3	2021/05/18	1.0	10.0	No
PCB (ug/L) - TW2	2021/05/18	0.05	3.0	No
PCB (ug/L) - TW3	2021/05/18	0.05	3.0	No
Pentachlorophenol (ug/L) - TW2	2021/05/18	0.5	60.0	No
Pentachlorophenol (ug/L) - TW3	2021/05/18	0.5	60.0	No
Phorate (ug/L) - TW2	2021/05/18	0.5	2.0	No
Phorate (ug/L) - TW3	2021/05/18	0.5	2.0	No
Picloram (ug/L) - TW2	2021/05/18	5.0	190.0	No
Picloram (ug/L) - TW3	2021/05/18	5.0	190.0	No
Prometryne (ug/L) - TW2	2021/05/18	0.25	1.0	No
Prometryne (ug/L) - TW3	2021/05/18	0.25	1.0	No
Simazine (ug/L) - TW2	2021/05/18	1.0	10.0	No
Simazine (ug/L) - TW3	2021/05/18	1.0	10.0	No
Terbufos (ug/L) - TW2	2021/05/18	0.5	1.0	No
Terbufos (ug/L) - TW3	2021/05/18	0.5	1.0	No
Tetrachloroethylene (ug/L) -				
TW2	2021/05/18	0.1	10.0	No
Tetrachloroethylene (ug/L) - TW3	2021/05/18	0.1	10.0	No
2,3,4,6-Tetrachlorophenol (ug/L)				
- TW2	2021/05/18	0.5	100.0	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW3	2021/05/18	0.5	100.0	No
Triallate (ug/L) - TW2	2021/05/18	1.0	230.0	No
Triallate (ug/L) - TW3	2021/05/18	1.0	230.0	No
Trichloroethylene (ug/L) - TW2	2021/05/18	0.1	5.0	No
Trichloroethylene (ug/L) - TW3	2021/05/18	0.1	5.0	No

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Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
2,4,6-Trichlorophenol (ug/L) -		_	_	
TW2	2021/05/18	0.5	5.0	No
2,4,6-Trichlorophenol (ug/L) - TW3	2021/05/18	0.5	5.0	No
2-methyl-4-chlorophenoxyacetic				
acid (MCPA) (ug/L) - TW2	2021/05/18	10.0	100.0	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (ug/L) - TW3	2021/05/18	10.0	100.0	No
Trifluralin (ug/L) - TW2	2021/05/18	1.0	45.0	No
Trifluralin (ug/L) - TW3	2021/05/18	1.0	45.0	No
Vinyl Chloride (ug/L) - TW2	2021/05/18	0.2	1.0	No
Vinyl Chloride (ug/L) - TW3	2021/05/18	0.2	1.0	No
Trihalomethane: Total (ug/L)				
Annual Average - DW	2022 Quarterly	8.7	100.0	No
HAA Total (ug/L) Annual Average - DW	2022 Quarterly	5.0	80.0	No

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

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
Lead - Distribution	2021/09/20	17 μ/L