

ANNUAL REPORT

ONTARIO REGULATION 170/03
SECTION 11

WECA DRINKING WATER SYSTEM



FOR THE PERIOD:
JANUARY 1, 2018 – DECEMBER 31, 2018

*Prepared for the Corporation of the Township of Adjala-Tosorontio
by the Ontario Clean Water Agency*



ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX



Drinking-Water System Number:	220010048
Drinking-Water System Name:	Weca Drinking Water System
Drinking-Water System Owner:	The Corporation of the Township of Adjala-Tosorontio
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2018 to December 31, 2018

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

Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.

Summary Report is available for inspection at the Township of Adjala-Tosorontio Municipal Office at 7855 Side Road 30, Alliston, ON or on the following website: <http://www.adjtos.ca>

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
Not applicable	Not applicable

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?

Not Applicable

Indicate how you notified system users that your 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



Description of Drinking-Water System:

The Weca water system is classified as a Large Municipal Residential water system with 113 services in the community of Loretto. Water is supplied via two (2) municipal wells and two (2) pumphouses. Inspections and maintenance duties are conducted by Ontario Clean Water Agency staff on a regular basis to maintain compliance with Ontario Regulation 170/03 to ensure that the Weca water supply is safe to drink. *Note: This system was connected with the Loretto Heights Drinking Water System as of December 14, 2018 and will operate under the Weca (Large Municipal Residential) DWS.*

List of water treatment chemicals used during the reporting period:

- Sodium Hypochlorite 12% Solution NSF, Primary Disinfection

Significant expenses incurred to:

- Install required equipment
- Purchase required equipment
- Repair required equipment
- Replace required equipment

Description of significant expenses incurred:

1. Drinking Water Quality Management Standard third-party certified audit of OCWA Quality & Environmental Management System.
2. Annual calibrations of handheld meters, backflow preventers, flow meters, etc.
3. Laboratory sample bottles and analysis.
4. Completed distribution system tie-in with Loretto Heights Drinking Water System.
5. Reprogrammed PLC/SCADA for tie-in work.
6. Installed well level probes.
7. Repaired diesel generator.
8. Repaired Singer flow control valve.
9. Repaired treated water pipework.
10. Repaired chlorine dosing equipment.
11. Repaired sample station and relocated hydrant.
12. Replaced treated chlorine analyzer.

Details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre:

Incident Date (yyyy/mm/dd)	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date (yyyy/mm/dd)
2018/11/05	Adverse Observation: Improper Disinfection & Precautionary Boiled Water Advisory			Increase chlorine dose and flushed system. Restored disinfection. Returned locked out well pumps to service and re-pressurized the distribution system to normal operating range. Precautionary Boiled Water Advisory (BWA) issued by the Public Health Unit on for the Adverse Observation: Improper Disinfection and low distribution system water pressure. Operator took distribution bacteriological samples as per Health Unit and Precautionary Boiled Water Advisory notices were hand delivered to affected homes. Sample results were negative for E.Coli and Total Coliform. Received	2018/11/08

Incident Date (yyyy/mm/dd)	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date (yyyy/mm/dd)
				confirmation from Health Unit to lift Precautionary BWA on November 8, 2018. Resolution notices hand delivered to affected homes on November 8, 2018. For more detail, refer to AWQI #143895.	

Table 1: Microbiological testing done under the Schedule 11 of Regulation 170/03 during this reporting period.

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 - RW1	53	0	0	0	0	N/A	N/A	N/A
Raw - RW2	53	0	0	0	0	N/A	N/A	N/A
Raw - RW3	3	0	0	0	14	N/A	N/A	N/A
Treated - TW1	55	0	0	0	0	53	0	10
Treated - TW2	53	0	0	0	0	53	0	10
Treated - RW3	3	0	0	0	0	3	0	10
Distribution - DW	112	0	0	0	0	55	0	10

Note:

- RW1 – Raw Water Well #1
- RW2 – Raw Water Well #2
- RW3 – Raw Water Well #3 (Loretto Heights) [added to Weca DWS as of December 14, 2018]
- TW1 – Treated Water Weca 1 Pumphouse
- TW2 – Treated Water Weca 2 Pumphouse
- TW3 – Treated Water Loretto Heights Pumphouse [added to Weca DWS as of December 14, 2018]

Table 2: Operational testing done under Schedule 7 of Regulation 170/03 during the period covered by this Annual Report.

Location & Test	Number of Samples	Range of Results	
		Minimum	Maximum
Turbidity, Raw RW1 (Grab) [NTU]	12	0.28	0.57
Turbidity, Raw RW2 (Grab) [NTU]	12	0.29	0.53
Turbidity, Raw RW3 (Grab) [NTU]~	N/A	N/A	N/A
Turbidity, Treated TW1 (Continuous) [NTU]	8760	0.00	2.04
Turbidity, Treated TW1 (Grab) [NTU]	72	0.53	1.75
Free Chlorine Residual, Treated TW1 (Continuous) [mg/L]	8760	0.00 [^]	5.01+
Free Chlorine Residual, Treated TW2 (Continuous) [mg/L]	8760	0.00 [*]	5.01+
Free Chlorine Residual, Treated TW3 (Continuous) [mg/L] [^]	8760	1.99	5.01+
Free Chlorine Residual, Treated TW1 (Grab) [mg/L]	163	0.77	3.90
Free Chlorine Residual, Treated TW2 (Grab) [mg/L]	164	0.98	4.90
Free Chlorine Residual, Treated TW3 (Grab) [mg/L] [*]	8	3.20	4.80

Location & Test	Number of Samples	Range of Results	
		Minimum	Maximum
Total Chlorine Residual, Treated TW1 (Grab) [mg/L]	161	0.98	4.20
Total Chlorine Residual, Treated TW2 (Grab) [mg/L]	163	1.26	5.20
Total Chlorine Residual, Treated TW3 (Grab) [mg/L]~	8	2.50	5.30
Free Chlorine Residual, Distribution (Grab) [mg/L]	364	1.16	3.40

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

~Loretto Heights Well and Pumphouse added to Weca DWS as of December 14, 2018.

^The minimum treated free chlorine residual did not result in an Adverse Observation because the well was locked out during the event. Adequate CT achieved.

*The minimum treated free chlorine residual was related to the adverse observation outlined in "Details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre" table above.

+The maximum treated free chlorine residuals were due to chlorine analyzer calibrations; they were not authentic chlorine residuals that was distributed throughout the system.

Table 3: Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument.

Date of Legal Instrument Issued	Parameter	Date Sampled	Result	Unit of Measure
Not Applicable				

Table 4: Summary of Inorganic parameters tested during this reporting period or the most recent sample results

Parameter	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Number of Exceedances	
				MAC	½ MAC
Antimony: Sb (µg/L) - TW1	2016/01/05	<MDL 0.02	6.0	No	No
Antimony: Sb (µg/L) - TW2	2016/01/05	<MDL 0.02	6.0	No	No
Antimony: Sb (µg/L) - TW3	2018/01/17	<MDL 0.02	6.0	No	No
Arsenic: As (µg/L) - TW1	2016/01/05	2.3	25.0	No	No
Arsenic: As (µg/L) - TW2	2016/01/05	1.9	25.0	No	No
Arsenic: As (µg/L) - TW3	2018/01/17	3.4	10.0	No	No
Barium: Ba (µg/L) - TW1	2016/01/05	137.0	1000.0	No	No
Barium: Ba (µg/L) - TW2	2016/01/05	142.0	1000.0	No	No
Barium: Ba (µg/L) - TW3	2018/01/17	99.8	1000.0	No	No
Boron: B (µg/L) - TW1	2016/01/05	98.1	5000.0	No	No
Boron: B (µg/L) - TW2	2016/01/05	109.0	5000.0	No	No
Boron: B (µg/L) - TW3	2018/01/17	177.0	5000.0	No	No
Cadmium: Cd (µg/L) - TW1	2016/01/05	<MDL 0.003	5.0	No	No
Cadmium: Cd (µg/L) - TW2	2016/01/05	<MDL 0.003	5.0	No	No
Cadmium: Cd (µg/L) - TW3	2018/01/17	<MDL 0.003	5.0	No	No
Chromium: Cr (µg/L) - TW1	2016/01/05	<MDL 0.03	50.0	No	No
Chromium: Cr (µg/L) - TW2	2016/01/05	<MDL 0.03	50.0	No	No
Chromium: Cr (µg/L) - TW3	2018/01/17	0.18	50.0	No	No
Mercury: Hg (µg/L) - TW1	2016/01/05	<MDL 0.01	1.0	No	No
Mercury: Hg (µg/L) - TW2	2016/01/05	<MDL 0.01	1.0	No	No

Parameter	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Number of Exceedances	
				MAC	½ MAC
Mercury: Hg (µg/L) - TW3	2018/01/17	<MDL 0.01	1.0	No	No
Selenium: Se (µg/L) - TW1	2016/01/05	<MDL 0.04	50.0	No	No
Selenium: Se (µg/L) - TW2	2016/01/05	<MDL 0.04	50.0	No	No
Selenium: Se (µg/L) - TW3	2018/01/17	<MDL 0.04	50.0	No	No
Uranium: U (µg/L) - TW1	2016/01/05	0.092	20.0	No	No
Uranium: U (µg/L) - TW2	2016/01/05	0.034	20.0	No	No
Uranium: U (µg/L) - TW3	2018/01/17	0.003	20.0	No	No
Fluoride: F (mg/L) - TW1	2017/01/11	0.25	1.5	No	No
Fluoride: F (mg/L) - TW2	2017/01/11	0.26	1.5	No	No
Fluoride: F (mg/L) - TW3	2017/01/11	0.33	1.5	No	No
Nitrite (mg/L) - TW1	2018/01/17	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW1	2018/04/24	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW1	2018/07/17	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW1	2018/10/22	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW2	2018/01/17	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW2	2018/04/24	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW2	2018/07/17	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW2	2018/10/22	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW3	2018/01/17	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW3	2018/04/24	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW3	2018/07/17	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW3	2018/10/22	<MDL 0.003	1.0	No	No
Nitrate (mg/L) - TW1	2018/01/17	0.01	10.0	No	No
Nitrate (mg/L) - TW1	2018/04/24	0.008	10.0	No	No
Nitrate (mg/L) - TW1	2018/07/17	0.01	10.0	No	No
Nitrate (mg/L) - TW1	2018/10/22	0.018	10.0	No	No
Nitrate (mg/L) - TW2	2018/01/17	0.016	10.0	No	No
Nitrate (mg/L) - TW2	2018/04/24	0.016	10.0	No	No
Nitrate (mg/L) - TW2	2018/07/17	0.013	10.0	No	No
Nitrate (mg/L) - TW2	2018/10/22	0.018	10.0	No	No
Nitrate (mg/L) - TW3	2018/01/17	0.016	10.0	No	No
Nitrate (mg/L) - TW3	2018/04/24	0.009	10.0	No	No
Nitrate (mg/L) - TW3	2018/07/17	0.012	10.0	No	No
Nitrate (mg/L) - TW3	2018/10/22	0.013	10.0	No	No
Sodium: Na (mg/L) - TW1	2017/01/18	44.3	20*	Yes	Yes
Sodium: Na (mg/L) - TW2	2017/01/18	51.8	20*	Yes	Yes
Sodium: Na (mg/L) - TW3	2017/01/18	50.9	20*	Yes	Yes

Note: MDL = Minimum Detection Limit

*There is no "MAC" for Sodium. The aesthetic objective 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.

Table 5: Summary of lead testing under Schedule 15.1 during this reporting period

Location Type	Number of Samples	Range of Lead Results		MAC	Number of Exceedances
		Minimum	Maximum		
Lead – Plumbing (µg/L)	Not Applicable - Relief from all Plumbing Requirements*				
Lead – Distribution** (µg/L)	2	0.39	2.31	10.0	No

Note: *The Alkalinity results for 2018 were 194 and 205 mg/L as CaCO₃.*

*This system qualifies for the plumbing exemption as per O. Regulation 170/03 Schedule 15.1-5 (9) (10).

**Distribution lead samples are taken every 36 months. The next set of distribution lead samples is scheduled for 2021.

Table 6: Summary of Organic parameters sampled during this reporting period or the most recent sample results

Parameter	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Number of Exceedances	
				MAC	½ MAC
Alachlor (µg/L) - TW1	2016/01/05	<MDL 0.02	5.00	No	No
Alachlor (µg/L) - TW2	2016/01/05	<MDL 0.02	5.00	No	No
Alachlor (µg/L) - TW3	2018/11/27	<MDL 0.02	5.00	No	No
Atrazine + N-dealkylated metabolites (µg/L) - TW1	2016/01/05	<MDL 0.01	5.00	No	No
Atrazine + N-dealkylated metabolites (µg/L) - TW2	2016/01/05	<MDL 0.01	5.00	No	No
Atrazine + N-dealkylated metabolites (µg/L) - TW3	2018/11/27	<MDL 0.01	5.00	No	No
Azinphos-methyl (µg/L) - TW1	2016/01/05	<MDL 0.05	20.00	No	No
Azinphos-methyl (µg/L) - TW2	2016/01/05	<MDL 0.05	20.00	No	No
Azinphos-methyl (µg/L) - TW3	2018/11/27	<MDL 0.05	20.00	No	No
Benzene (µg/L) - TW1	2016/01/05	<MDL 0.32	1.00	No	No
Benzene (µg/L) - TW2	2016/01/05	<MDL 0.32	1.00	No	No
Benzene (µg/L) - TW3	2018/11/27	<MDL 0.32	1.00	No	No
Benzo(a)pyrene (µg/L) - TW1	2016/01/05	<MDL 0.004	0.01	No	No
Benzo(a)pyrene (µg/L) - TW2	2016/01/05	<MDL 0.004	0.01	No	No
Benzo(a)pyrene (µg/L) - TW3	2018/11/27	<MDL 0.004	0.01	No	No
Bromoxynil (µg/L) - TW1	2016/01/05	<MDL 0.33	5.00	No	No
Bromoxynil (µg/L) - TW2	2016/01/05	<MDL 0.33	5.00	No	No
Bromoxynil (µg/L) - TW3	2018/11/27	<MDL 0.33	5.00	No	No
Carbaryl (µg/L) - TW1	2016/01/05	<MDL 0.05	90.00	No	No
Carbaryl (µg/L) - TW2	2016/01/05	<MDL 0.05	90.00	No	No
Carbaryl (µg/L) - TW3	2018/11/27	<MDL 0.05	90.00	No	No
Carbofuran (µg/L) - TW1	2016/01/05	<MDL 0.01	90.00	No	No
Carbofuran (µg/L) - TW2	2016/01/05	<MDL 0.01	90.00	No	No
Carbofuran (µg/L) - TW3	2018/11/27	<MDL 0.01	90.00	No	No
Carbon Tetrachloride (µg/L) - TW1	2016/01/05	<MDL 0.16	2.00	No	No

Parameter	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Number of Exceedances	
				MAC	½ MAC
Carbon Tetrachloride (µg/L) - TW2	2016/01/05	<MDL 0.16	2.00	No	No
Carbon Tetrachloride (µg/L) - TW3	2018/11/27	<MDL 0.16	2.00	No	No
Chlorpyrifos (µg/L) - TW1	2016/01/05	<MDL 0.02	90.00	No	No
Chlorpyrifos (µg/L) - TW2	2016/01/05	<MDL 0.02	90.00	No	No
Chlorpyrifos (µg/L) - TW3	2018/11/27	<MDL 0.02	90.00	No	No
Diazinon (µg/L) - TW1	2016/01/05	<MDL 0.02	20.00	No	No
Diazinon (µg/L) - TW2	2016/01/05	<MDL 0.02	20.00	No	No
Diazinon (µg/L) - TW3	2018/11/27	<MDL 0.02	20.00	No	No
Dicamba (µg/L) - TW1	2016/01/05	<MDL 0.2	120.00	No	No
Dicamba (µg/L) - TW2	2016/01/05	<MDL 0.2	120.00	No	No
Dicamba (µg/L) - TW3	2018/11/27	<MDL 0.2	120.00	No	No
1,2-Dichlorobenzene (µg/L) - TW1	2016/01/05	<MDL 0.41	200.00	No	No
1,2-Dichlorobenzene (µg/L) - TW2	2016/01/05	<MDL 0.41	200.00	No	No
1,2-Dichlorobenzene (µg/L) - TW3	2018/11/27	<MDL 0.41	200.00	No	No
1,4-Dichlorobenzene (µg/L) - TW1	2016/01/05	<MDL 0.36	5.00	No	No
1,4-Dichlorobenzene (µg/L) - TW2	2016/01/05	<MDL 0.36	5.00	No	No
1,4-Dichlorobenzene (µg/L) - TW3	2018/11/27	<MDL 0.36	5.00	No	No
1,2-Dichloroethane (µg/L) - TW1	2016/01/05	<MDL 0.35	5.00	No	No
1,2-Dichloroethane (µg/L) - TW2	2016/01/05	<MDL 0.35	5.00	No	No
1,2-Dichloroethane (µg/L) - TW3	2018/11/27	<MDL 0.35	5.00	No	No
1,1-Dichloroethylene (µg/L) - TW1	2016/01/05	<MDL 0.33	14.00	No	No
1,1-Dichloroethylene (µg/L) - TW2	2016/01/05	<MDL 0.33	14.00	No	No
1,1-Dichloroethylene (µg/L) - TW3	2018/11/27	<MDL 0.33	14.00	No	No
Dichloromethane (Methylene Chloride) (µg/L) - TW1	2016/01/05	<MDL 0.35	50.00	No	No
Dichloromethane (Methylene Chloride) (µg/L) - TW2	2016/01/05	<MDL 0.35	50.00	No	No
Dichloromethane (Methylene Chloride) (µg/L) - TW3	2018/11/27	<MDL 0.35	50.00	No	No
2,4-Dichlorophenol (µg/L) - TW1	2016/01/05	<MDL 0.15	900.00	No	No
2,4-Dichlorophenol (µg/L) - TW2	2016/01/05	<MDL 0.15	900.00	No	No
2,4-Dichlorophenol (µg/L) - TW3	2018/11/27	<MDL 0.15	900.00	No	No
2,4-Dichlorophenoxy acetic acid (2,4- D) (µg/L) - TW1	2016/01/05	<MDL 0.19	100.00	No	No
2,4-Dichlorophenoxy acetic acid (2,4- D) (µg/L) - TW2	2016/01/05	<MDL 0.19	100.00	No	No
2,4-Dichlorophenoxy acetic acid (2,4- D) (µg/L) - TW3	2018/11/27	<MDL 0.19	100.00	No	No
Diclofop-methyl (µg/L) - TW1	2016/01/05	<MDL 0.4	9.00	No	No
Diclofop-methyl (µg/L) - TW2	2016/01/05	<MDL 0.4	9.00	No	No
Diclofop-methyl (µg/L) - TW3	2018/11/27	<MDL 0.4	9.00	No	No
Dimethoate (µg/L) - TW1	2016/01/05	<MDL 0.03	20.00	No	No
Dimethoate (µg/L) - TW2	2016/01/05	<MDL 0.03	20.00	No	No

Parameter	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Number of Exceedances	
				MAC	½ MAC
Dimethoate (µg/L) - TW3	2018/11/27	<MDL 0.03	20.00	No	No
Diquat (µg/L) - TW1	2016/01/05	<MDL 1.0	70.00	No	No
Diquat (µg/L) - TW2	2016/01/05	<MDL 1.0	70.00	No	No
Diquat (µg/L) - TW3	2018/11/27	<MDL 1.0	70.00	No	No
Diuron (µg/L) - TW1	2016/01/05	<MDL 0.03	150.00	No	No
Diuron (µg/L) - TW2	2016/01/05	<MDL 0.03	150.00	No	No
Diuron (µg/L) - TW3	2018/11/27	<MDL 0.03	150.00	No	No
Glyphosate (µg/L) - TW1	2016/01/05	<MDL 1.0	280.00	No	No
Glyphosate (µg/L) - TW2	2016/01/05	<MDL 1.0	280.00	No	No
Glyphosate (µg/L) - TW3	2018/11/27	<MDL 1.0	280.00	No	No
Malathion (µg/L) - TW1	2016/01/05	<MDL 0.02	190.00	No	No
Malathion (µg/L) - TW2	2016/01/05	<MDL 0.02	190.00	No	No
Malathion (µg/L) - TW3	2018/11/27	<MDL 0.02	190.00	No	No
Metolachlor (µg/L) - TW1	2016/01/05	<MDL 0.01	50.00	No	No
Metolachlor (µg/L) - TW2	2016/01/05	<MDL 0.01	50.00	No	No
Metolachlor (µg/L) - TW3	2018/11/27	<MDL 0.01	50.00	No	No
Metribuzin (µg/L) - TW1	2016/01/05	<MDL 0.02	80.00	No	No
Metribuzin (µg/L) - TW2	2016/01/05	<MDL 0.02	80.00	No	No
Metribuzin (µg/L) - TW3	2018/11/27	<MDL 0.02	80.00	No	No
Monochlorobenzene (Chlorobenzene) (µg/L) - TW1	2016/01/05	<MDL 0.3	80.00	No	No
Monochlorobenzene (Chlorobenzene) (µg/L) - TW2	2016/01/05	<MDL 0.3	80.00	No	No
Monochlorobenzene (Chlorobenzene) (µg/L) - TW3	2018/11/27	<MDL 0.3	80.00	No	No
Paraquat (µg/L) - TW1	2016/01/05	<MDL 1.0	10.00	No	No
Paraquat (µg/L) - TW2	2016/01/05	<MDL 1.0	10.00	No	No
Paraquat (µg/L) - TW3	2018/11/27	<MDL 1.0	10.00	No	No
PCB (µg/L) - TW1	2016/01/05	<MDL 0.04	3.00	No	No
PCB (µg/L) - TW2	2016/01/05	<MDL 0.04	3.00	No	No
PCB (µg/L) - TW3	2018/11/27	<MDL 0.04	3.00	No	No
Pentachlorophenol (µg/L) - TW1	2016/01/05	<MDL 0.15	60.00	No	No
Pentachlorophenol (µg/L) - TW2	2016/01/05	<MDL 0.15	60.00	No	No
Pentachlorophenol (µg/L) - TW3	2018/11/27	<MDL 0.15	60.00	No	No
Phorate (µg/L) - TW1	2016/01/05	<MDL 0.01	2.00	No	No
Phorate (µg/L) - TW2	2016/01/05	<MDL 0.01	2.00	No	No
Phorate (µg/L) - TW3	2018/11/27	<MDL 0.01	2.00	No	No
Picloram (µg/L) - TW1	2016/01/05	<MDL 1.0	190.00	No	No
Picloram (µg/L) - TW2	2016/01/05	<MDL 1.0	190.00	No	No
Picloram (µg/L) - TW3	2018/11/27	<MDL 1.0	190.00	No	No
Prometryne (µg/L) - TW1	2016/01/05	<MDL 0.03	1.00	No	No

Parameter	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Number of Exceedances	
				MAC	½ MAC
Prometryne (µg/L) - TW2	2016/01/05	<MDL 0.03	1.00	No	No
Prometryne (µg/L) - TW3	2018/11/27	<MDL 0.03	1.00	No	No
Simazine (µg/L) - TW1	2016/01/05	<MDL 0.01	10.00	No	No
Simazine (µg/L) - TW2	2016/01/05	<MDL 0.01	10.00	No	No
Simazine (µg/L) - TW3	2018/11/27	<MDL 0.01	10.00	No	No
Terbufos (µg/L) - TW1	2016/01/05	<MDL 0.01	1.00	No	No
Terbufos (µg/L) - TW2	2016/01/05	<MDL 0.01	1.00	No	No
Terbufos (µg/L) - TW3	2018/11/27	<MDL 0.01	1.00	No	No
Tetrachloroethylene (µg/L) - TW1	2016/01/05	<MDL 0.35	10.00	No	No
Tetrachloroethylene (µg/L) - TW2	2016/01/05	<MDL 0.35	10.00	No	No
Tetrachloroethylene (µg/L) - TW3	2018/11/27	<MDL 0.35	10.00	No	No
2,3,4,6-Tetrachlorophenol (µg/L) - TW1	2016/01/05	<MDL 0.2	100.00	No	No
2,3,4,6-Tetrachlorophenol (µg/L) - TW2	2016/01/05	<MDL 0.2	100.00	No	No
2,3,4,6-Tetrachlorophenol (µg/L) - TW3	2018/11/27	<MDL 0.2	100.00	No	No
Triallate (µg/L) - TW1	2016/01/05	<MDL 0.01	230.00	No	No
Triallate (µg/L) - TW2	2016/01/05	<MDL 0.01	230.00	No	No
Triallate (µg/L) - TW3	2018/11/27	<MDL 0.01	230.00	No	No
Trichloroethylene (µg/L) - TW1	2016/01/05	<MDL 0.44	5.00	No	No
Trichloroethylene (µg/L) - TW2	2016/01/05	<MDL 0.44	5.00	No	No
Trichloroethylene (µg/L) - TW3	2018/11/27	<MDL 0.44	5.00	No	No
2,4,6-Trichlorophenol (µg/L) - TW1	2016/01/05	<MDL 0.25	5.00	No	No
2,4,6-Trichlorophenol (µg/L) - TW2	2016/01/05	<MDL 0.25	5.00	No	No
2,4,6-Trichlorophenol (µg/L) - TW3	2018/11/27	<MDL 0.25	5.00	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (ug/L) - TW1	2016/01/05	<MDL 0.12	100.00	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (ug/L) - TW2	2016/01/05	<MDL 0.12	100.00	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (µg/L) - TW3	2018/11/27	<MDL 0.12	100.00	No	No
Trifluralin (µg/L) - TW1	2016/01/05	<MDL 0.02	45.00	No	No
Trifluralin (µg/L) - TW2	2016/01/05	<MDL 0.02	45.00	No	No
Trifluralin (µg/L) - TW3	2018/11/27	<MDL 0.02	45.00	No	No
Vinyl Chloride (µg/L) - TW1	2016/01/05	<MDL 0.17	1.00	No	No
Vinyl Chloride (µg/L) - TW2	2016/01/05	<MDL 0.17	1.00	No	No
Vinyl Chloride (µg/L) - TW3	2018/11/27	<MDL 0.17	1.00	No	No
Trihalomethane: Total Annual Average (µg/L) - DW (Weca)	4 Quarters of 2018	52.5	100.00	No	Yes
Trihalomethane: Total Annual Average (µg/L) - DW (Loretto Heights)	4 Quarters of 2018	54.75	100.00	No	Yes
Haloacetic Acid: Total Annual Average (µg/L) - DW (Weca)	4 Quarters of 2018	8.65	80.00	N/A*	N/A*
Haloacetic Acid: Total Annual Average (µg/L) - DW (Loretto Heights)	4 Quarters of 2018	9.75	80.00	N/A*	N/A*

Note: MDL = Minimum Detection Limit

*The MAC for Haloacetic Acid does not come into effect until 2020.

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

Parameter	Result Value	Unit of Measure	Date of Sample
Sodium: Na - TW1	44.3	mg/L	2017/01/18
Sodium: Na - TW2	51.8	mg/L	2017/01/18
Sodium: Na - TW3	50.9	mg/L	2017/01/18
Trihalomethane: Total Annual Average - DW (Weca)	52.5	µg/L	4 Quarters of 2018
Trihalomethane: Total Annual Average - DW (Loretto Heights)	54.75	µg/L	4 Quarters of 2018

Note: This table highlights parameters with a “Yes” in the ½ MAC columns of Table 4 and Table 6.