2018 Annual Compliance Report

Section 1 Drinking Water System General Information

This report has been prepared in accordance with the reporting requirements of the Safe Drinking Water Act 2002 O.Reg 170/03, s 11(1), (3), (6), (7), (8), (9.1) and 10 as well as Schedule 22-1 and 22-2.

This annual report has been included in the Water Summary Report presented to Council and a notice has been placed in the local newspaper notifying the public and any interested authority that the Blue Mountains Drinking Water System's 2018 Annual Compliance Report can be viewed on the Town's website at www.thebluemountains.ca, or viewed in the Public Information Binder located at Town Hall. Additionally, a request can be made to receive a copy free of charge.

Drinking Water System Information

Drinking Water System Number	220001762
Drinking Water System Name	The Blue Mountains Drinking Water System
Drinking Water System Owner	Town of The Blue Mountains
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?	Yes

Drinking Water System Description

The Thornbury Water Treatment Plant is located at 230 Peel Street. The water source is Georgian Bay, part of the Great Lakes Water System.

A 569m long, 600mm diameter raw water intake pipe extends approximately 569m into Georgian Bay. A 38mm diameter chlorine feed line and a chlorine solution diffuser provides pre-chlorination and zebra mussel control. Raw water sampling is accomplished by utilizing a 25mm diameter sampling line which extends out from the intake bell.

After entering the intake, three (3) low lift vertical turbine pumps (2 duty, 1 standby) deliver the raw water to two (2) 0.30mm strainers before it is directed to the microfiltration units.

The microfiltration units consist of three (3) trains of 240 microfiltration modules (80 modules per train) complete with three (3) valve racks and controls. The microfiltration units filter the raw water by forcing it through 0.1 micron sized membranes.

Two (2) reverse filtration pumps (1 duty, 1 standby) are used to backwash the microfiltration units into Modified Reverse Filtration Filter (MRFF). The MRFF (modified original mixed media filter) is isolated from the potable water system and is used to filter the reverse filtration water from the microfiltration units and the backflush discharge from the strainers. This waste filtrate water is monitored for chlorine residual and chemically de-chlorinated before being discharged into the Little Beaver River.

After being filtered, the treated water is discharged into a common header where it is chlorinated (post-chlorination) prior to being drawn by three (3) high lift vertical turbine pumps (2 duty, 1 standby) and pumped through the ultraviolet disinfection system. The ultraviolet system consists of three (3) Trojan UV Reactors (2 duty, 1 standby) which provide 100% treatment capacity prior to delivery to the Town's distribution system. Ultraviolet is the method of disinfection in which ultraviolet irradiation is used to inactivate target organisms in the water source and is the primary disinfection used at the Thornbury WTP.

Control of the high lift pumps is via level in the 747 cubic meter elevated storage tank located on Victoria Street in Thornbury.

The distribution system consists of approximately 120 kilometers of watermain ranging in size from 50mm to 400mm. Distribution facilities consist of an elevated tank, seven (7) booster stations, four (4) grade level reservoirs and one (1) standpipe.

Water is supplied to the Town of Collingwood through two connections; one at Long Point Road and one at Grand Cypress. Additionally, the Town can supply the Town of Collingwood by reversing flow at Mountain Road and opening the valve at Grand Cypress which will supply water to the western part of Collingwood. The supply of water is metered to ensure cost recovery from the Town of Collingwood.

Thornbury Water Tower

An elevated storage tank is located on Victoria Street in Thornbury and is referred to as the Thornbury Water Tower. This Tower has a capacity of 747 cubic meters. The Tower level supplies water pressure to the 10th Line Booster Station, Thornbury Reservoir, Camperdown Court, and Arrowhead Road Booster Station.

10th Line Booster Station

A booster station and re-chlorination facility is located at the 10th Concession and Highway No. 26 and is referred to as the 10th Line Booster Station. The water pressure at this station is boosted for higher distribution pressures and volume to provide fire flows throughout the Lora

Bay Service Area. 100% standby power is available at this station. The firm capacity at this station is 66.67 l/s.

Thornbury Reservoir

A treated water reservoir, booster station and re-chlorination facility is located at 1 Grey Street South, Unit 1 in Thornbury and is referred to as the Thornbury Reservoir. The Thornbury Reservoir is equipped with three centrifugal pumps, re-chlorination equipment and 100% standby power. The firm capacity at this station is 150 l/s.

Camperdown Reservoir

A treated water reservoir, pumphouse and re-chlorination facility is located at 109 Camperdown Road and is referred to as the Camperdown Reservoir. This in-ground reservoir and booster station is equipped with two centrifugal operating pumps, one centrifugal fire pump, re-chlorination equipment and 100% standby power. The firm capacity to the upper zone is 12.3 l/s.

Camperdown Court Booster Station

A booster pumping station is located at 103 Camperdown Court and is referred to as the Camperdown Court Booster Station. This booster station is equipped with two centrifugal pumps with standby power supplied by the Camperdown Reservoir. The firm capacity at this station is 85 l/s.

Wards Road Booster Station

A booster station is located at 153 Wards Road and is referred to as the Wards Road Booster Station. This booster station is equipped with two centrifugal pumps. This station is equipped with 100% standby power. The firm capacity at this station is 16 l/s.

Arrowhead Road Booster Station

A booster station is located at 122 Arrowhead Road and is referred to as the Arrowhead Road Booster Station. This station is equipped with three vertical turbine pumps, re-chlorination equipment and 40% standby power. Provisions were made through piping and valving to reverse the flow of water from the Craigleith Service Area to the Camperdown and Thornbury Service Areas. The firm capacity at this station is 40 l/s.

Happy Valley Reservoirs

Two reservoirs are located at 136 Happy Valley Road and are referred to as the Happy Valley Road Reservoirs. These reservoirs have a combined capacity of 5,000 cubic meters.

Happy Valley Road Booster Station

A booster pumping station is also located at 136 Happy Valley Road and is referred to as the Happy Valley Road Booster Station. This station is equipped with two pumps and re-chlorination equipment. The firm capacity of this station is 5.35 l/s.

Swiss Meadows Standpipe

A 536 cubic meters standpipe is located at 154 Scandia Lane above the Swiss Meadows Subdivision.

Mountain Road Booster Station

A booster pumping station is located at 795930 at the intersection of Grey Road 9 and Grey Road 21 and is referred to as the Mountain Road Booster Station. This station is equipped with two in-line water booster pumps and re-chlorination equipment. This station has a firm capacity of 46 l/s. The water supply for this station is received from the Town of Collingwood.

Summary of Water Treatment Chemicals Used Over this Reporting Period

Chlorine (liquefied gas)

Sodium Hypochlorite (12%)

Citric Acid

Sodium Hydroxide

Calcium Thiosulphate

Summary of Monetary Expenses Incurred in 2018

Chamber Level Control

Replacement of (8) eight level controllers at the Thornbury Water Treatment Plant that have reached the end of their useful life.

Expended this year: $21,856

Low Lift Check Valves Replacement

Replacement of existing check valves that have reached the end of their useful lives with low lift check valves.

Expended this year: $7,595

Vehicle Replacement

Replacement of existing vehicle that has reached the end of its useful life

Expended this year: $27,489

SCADA Control Panel Installation

Installation of Programmable Logic Controls purchased in 2017

Expended this year: $83,809

Summary of Adverse Drinking Water Quality Results

There were no incidents of adverse water quality in 2018, however, there was one precautionary boil water issued and two occasions where trending data from the Town's Supervisory Control and Data Acquisition (SCADA) system was lost.

On February 26, 2018, Operators experienced a pump failure at one of the Water Booster Stations. The Wards Road Booster station has two (2) three (3) horsepower pumps. The motor on one pump failed and the capacitor on the second pump had blown. The capacitor failure was likely due in part to the constant starts and stops caused by the first pump being blown.

The static water pressure in the upper area of Hidden Lake was less than 20 psi which resulted in Staff issuing a precautionary boil water advisory for this area. The Ministry of the Environment Conservation and Parks (MECP) and the Grey Bruce Health Unit were advised on this incident. The precautionary boil water advisory was lifted on March 1, 2018 following two consecutive sets of microbiological tests with 0 E. Coli and 0 Total Coliform.

On December 22, 2018, it was determined that the Historian software which collects the trending data had crashed. During the time of failure, the Historian was not trending data, however, the PLC was still fully monitoring the Water Treatment Plant. If an adverse event would have occurred, the On-call Operator would have been notified via the automatic dialer on site. The Town has an Autodialer alarm setup when the Historian software fails.

On December 29, 2018, the HMI was not displaying data and no control was possible. After several attempts to connect the virtual machine, the physical server hosting the HMI virtual machine and I/O Server was rebooted and after some time the HMI was restored. During this time, all Operator control of the system was not possible, but the PLC continued to monitor and control the system as required. If an adverse event would have occurred, the On-call Operator would have been notified via the automatic dialer on site.

During this time, the historian was not collecting data. The quick panels were functioning at all stations except for the 10th Line Booster Station and Mountain Road Booster Station. The data from all other stations was reviewed upon restoration of Historian. Both issues were reported to the MECP Spills Action Centre and Grey Bruce Owen Sound Public Health Unit with no further action required.

Summary of Microbiological testing done under Schedule 10,11 or 12 of Regulation 170/03 during this reporting period

Parameter	Number of Samples	Range of E. Coli or Fecal Results Min # to Max #	Range of Total Coliform Results Min # to Max #	Number of HPC Samples	Results of HPC Results Min # to Max #
Raw	52	0 to 44	0 to 560	Not Required	
Treated	53	0	0	51[1]	0 to 3
Distribution	543	0	0	420	29

Summary of Operational Testing completed under Schedule 7,8, or 9 of Ontario Regulation 170/03 during this reporting period

	Number of Grab Samples	Range of Results Min # to Max #	Unit of Measure
Turbidity			
Treated	8760	0.010 to 0.830	NTU
Rack 1	8760	0.015 to 0.394	NTU
Rack 2	8760	0.011 to 0.248	NTU
Rack 3	8760	0.014 to 0.352	NTU
Chlorine			
Treated	8760	1.333 to 2.000	mg/L
Discharge	8760	1.281 to 2.404	mg/L
Thornbury Reservoir	8760	1.060 to 2.044	mg/L
10th Line Booster Station	8760	1.345 to 2.469	mg/L

[1] Due to a laboratory error, the samples collected for Heterotrophic Plate Count (HPC) were not analyzed. This was reported to MECP and their incident report # is 1-KBBR4.

	Number of Grab Samples	Range of Results Min # to Max #	Unit of Measure
Arrowhead Road Booster Station	8760	1.095 to 2.347	mg/L
Arrowhead Road Booster Station By-pass	8760	1.040 to 2.125	mg/L
Happy Valley Booster Station	8760	0.578 to 2.473	mg/L
Camperdown Reservoir Upper Zone	8760	1.043 to 2.470	mg/L
Camperdown Influent / Effluent	8760	1.253 to 2.484	mg/L
Mountain Road Booster Station	8760	1.180 to 2.224	mg/L
Distribution	6,259	0.10 to 2.34	mg/L

Summary of Additional Testing and Sampling

Please see attached additional sampling results for Haloacetic Acids, Trihalomethanes, Process Wastewater Suspended Solids, Nitrate, Nitrite, pH and Alkalinity.

Haloacetic Acid

Quarter	HAA Sample Result # 1 ug/L	Sampling Location	HAA Sample Result # 2 ug/L	Sampling Location	HAA Sample Result # 3 ug/L	Sampling Location	Quarterly Average ug/L
Jan 1 – Mar 31, 2018	18.9	Camperdown Reservoir	30.4	Swiss Meadows Standpipe			12.325
Apr 1 – Jun 30, 2018	25.6	Camperdown Reservoir	37.3	Swiss Meadows Standpipe			15.725

Quarter	HAA Sample Result # 1 ug/L	Sampling Location	HAA Sample Result # 2 ug/L	Sampling Location	HAA Sample Result # 3 ug/L	Sampling Location	Quarterly Average ug/L
Jul 1 – Sep 30, 2018	14.8	Thornbury WTP	19.5	Arrowhead Rd BS	22	Happy Valley BS	14.075
Oct 1 – Dec 31, 2018	11.6	Thornbury WTP	30	Patricia Drive SS	29.6	Oak Court	17.8
RAA # 1 Calculated Average							15

Trihalomethanes

Quarter	THM Sample Result # 1 ug/L	THM Sample Result # 2 ug/L	THM Sample Result # 3 ug/L	THM Sample Result # 4 ug/L	Quarterly Average ug/L
Oct 1 – Dec 31, 2017	52	50			25.5
Jan 1 – Mar 31, 2018	27	37			16
Apr 1 – Jun 30, 2018	26	26			13
Jul 1 – Sep 30, 2018	26	42			17
RAA # 3 Calculated Average					**18**
Oct 1 – Dec 31, 2018	52	48			

Process Wastewater Suspended Solids

Sample Date	Result Value	Unit of Measure
January 2, 2018	34	mg/L
February 5, 2018	22	mg/L
March 5, 2018	25	mg/L
April 3, 2018	24	mg/L
May 7, 2018	5	mg/L
June 4, 2018	<2	mg/L
July 3, 2018	11	mg/L
August 7, 2018	5	mg/L
September 4, 2018	4	mg/L
October 1, 2018	5	mg/L
November 5, 2018	9	mg/L
December 3, 2018	42	mg/L
Annual Average	15.7	mg/L

Nitrate Results

Sample Date	Location	Results (mg/L)
January 2, 2018	Thornbury WTP – Raw	0.006
January 2, 2018	Thornbury WTP – Treated	0.265
January 2, 2018	Little Beaver River – Source Protection	0.261
January 2, 2018	Beaver River – Source Protection	1.030
January 2, 2018	Indian Brook	1.700
February 5, 2018	Thornbury WTP – Raw	0.257
February 5, 2018	Thornbury WTP – Treated	0.276

Sample Date	Location	Results (mg/L)
March 5, 2018	Thornbury WTP – Treated	0.277
March 5, 2018	Thornbury WTP – Raw	0.262
March 5, 2018	Little Beaver River – Source Protection	1.480
March 5, 2018	Big Head River – Source Protection	1.200
March 5, 2018	Beaver River – Source Protection	0.850
March 5, 2018	Indian Brook	1.660
April 3, 2018	Thornbury WTP – Raw	0.285
April 3, 2018	Thornbury WTP – Treated	0.278
April 3, 2018	Little Beaver River – Source Protection	0.985
April 3, 2018	Big Head River – Source Protection	0.897
April 3, 2018	Beaver River – Source Protection	0.733
April 3, 2018	Indian Brook	1.590
May 7, 2018	Thornbury WTP – Raw	0.265
May 7, 2018	Thornbury WTP – Treated	0.271
June 4, 2018	Thornbury WTP – Raw	0.257
June 4, 2018	Thornbury WTP – Treated	0.267
July 3, 2018	Thornbury WTP – Raw	0.238
July 3, 2018	Thornbury WTP – Treated	0.249
July 3, 2018	Little Beaver River – Source Protection	0.359
July 3, 2018	Big Head River – Source Protection	0.516
July 3, 2018	Beaver River- Source Protection	0.064
July 3, 2018	Indian Brook	0.343
August 7, 2018	Thornbury WTP – Raw	0.224

Sample Date	Location	Results (mg/L)
August 7, 2018	Thornbury WTP – Treated	0.224
September 4, 2018	Thornbury WTP – Raw	0.211
September 4, 2018	Thornbury WTP – Treated	0.213
October 1, 2018	Thornbury WTP – Raw	0.226
October 1, 2018	Thornbury WTP – Treated	0.227
October 1, 2018	Little Beaver River – Source Protection	0.150
October 1, 2018	Big Head River – Source Protection	0.192
October 1, 2018	Beaver River – Source Protection	0.278
October 1, 2018	Indian Brook	0.232
November 5, 2018	Thornbury WTP – Raw	0.253
November 5, 2018	Thornbury WTP - Treated	0.246
December 3, 2018	Thornbury WTP – Raw	0.250
December 3, 2018	Thornbury WTP – Treated	0.415
December 3, 2018	Little Beaver – Source Protection	1.56
December 3, 2018	Big Head River – Source Protection	2.04
December 3, 2018	Beaver River – Source Protection	1.15
December 3, 2018	Indian Brook	2.36

Nitrite Results

Sample Date	Location	Results (mg/L)
January 2, 2018	Thornbury WTP – Raw	0.004
January 2, 2018	Thornbury WTP – Treated	0.003
January 2, 2018	Little Beaver River – Source Protection	0.004

Sample Date	Location	Results (mg/L)
January 2, 2018	Beaver River – Source Protection	0.018
January 2, 2018	Indian Brook	0.003
February 5, 2018	Thornbury WTP – Raw	0.005
February 5, 2018	Thornbury WTP – Treated	0.003
March 5, 2018	Thornbury WTP – Treated	0.003
March 5, 2018	Thornbury WTP – Raw	0.005
March 5, 2018	Little Beaver River – Source Protection	0.003
March 5, 2018	Big Head River – Source Protection	0.003
March 5, 2018	Beaver River – Source Protection	0.003
March 5, 2018	Indian Brook	0.003
April 3, 2018	Thornbury WTP – Raw	0.004
April 3, 2018	Thornbury WTP – Treated	0.003
April 3, 2018	Little Beaver River – Source Protection	0.003
April 3, 2018	Big Head River – Source Protection	0.003
April 3, 2018	Beaver River – Source Protection	0.003
April 3, 2018	Indian Brook	0.003
May 7, 2018	Thornbury WTP – Raw	0.003
May 7, 2018	Thornbury WTP – Treated	0.003
June 4, 2018	Thornbury WTP – Raw	0.003
June 4, 2018	Thornbury WTP – Treated	0.003
July 3, 2018	Thornbury WTP – Raw	0.003
July 3, 2018	Thornbury WTP – Treated	0.003
July 3, 2018	Little Beaver River – Source Protection	0.005

Sample Date	Location	Results (mg/L)
July 3, 2018	Big Head River – Source Protection	0.010
July 3, 2018	Beaver River- Source Protection	0.006
July 3, 2018	Indian Brook	0.003
August 7, 2018	Thornbury WTP – Raw	0.003
August 7, 2018	Thornbury WTP – Treated	0.003
September 4, 2018	Thornbury WTP – Raw	0.003
September 4, 2018	Thornbury WTP – Treated	0.003
October 1, 2018	Thornbury WTP – Raw	0.003
October 1, 2018	Thornbury WTP – Treated	0.003
October 1, 2018	Little Beaver River – Source Protection	0.003
October 1, 2018	Big Head River – Source Protection	0.003
October 1, 2018	Beaver River – Source Protection	0.003
October 1, 2018	Indian Brook	0.003
November 5, 2018	Thornbury WTP – Raw	0.003
November 5, 2018	Thornbury WTP - Treated	0.003
December 3, 2018	Thornbury WTP – Raw	0.003
December 3, 2018	Thornbury WTP – Treated	0.003
December 3, 2018	Little Beaver River – Source Protection	0.003
December 3, 2018	Big Head River – Source Protection	0.003
December 3, 2018	Indian Brook	0.003

pH & Alkalinity Results

Date	Location	pH	Alkalinity
January 2, 2018	10th Line Water Booster Station	7.68	69
January 2, 2018	Camperdown Reservoir	7.77	70
January 2, 2018	Arrowhead Road Booster Station	7.72	74
January 2, 2018	Swiss Meadows Standpipe	7.88	75
January 29, 2018	Hydrant # 142 Wyandot	7.84	85
January 29, 2018	Hydrant # 87 Wensley Drive	7.73	78
January 29, 2018	Hydrant # 536 Edward Street	7.73	78
January 29, 2018	Hydrant # 018 King & Wellington	7.83	84
August 25, 2018	23 Louisa Street East	7.98	
August 25, 2018	Louisa / Hester Sample Station	7.93	73
September 4, 2018	Sunset Blvd. DE Sample Station	8.10	70
September 4, 2018	Camperdown Court Sample Station	8.13	71
September 4, 2018	Drake Path Sample Station	8.14	71
September 4, 2018	Carmichael Crescent Sample Station	8.12	73
October 1, 2018	Hydrant # 473 Alice Street West	8.00	71
October 1, 2018	Hydrant # 498 Applevale Court DE	7.70	71
October 1, 2018	Hydrant # 138 Arrowhead Road & Sleepy Hollow	7.75	71
October 1, 2018	Hydrant # 294 Jozo Weider	7.74	69

Summary of Inorganic Parameters

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	Mar 19, 2018	0.08	ug/L	No
Arsenic	Mar 19, 2018	0.5	ug/L	No
Barium	Mar 19, 2018	12.7	ug/L	No
Boron	Mar 19, 2018	20	ug/L	No
Cadmium	Mar 19, 2018	0.005	ug/L	No
Chromium	Mar 19, 2018	0.16	ug/L	No
Mercury	Mar 19, 2018	0.01	ug/L	No
Sodium	Mar 21, 2016	5.10	mg/L	No
Uranium	Mar 19, 2018	0.175	ug/L	No
Fluoride	Mar 23, 2015	0.11	mg/L	No
Nitrite	Dec 3, 2018	0.003	mg/L	No
Nitrate	Dec 3, 2018	0.415	mg/L	No

Summary of Lead Testing

Summary of lead testing under Schedule 15.1 during this reporting period

Location Type	Number of Samples	Range of Lead Results (min#) – (max#)	Unit of Measure	Number of Exceedances
Plumbing	1	0.21	ug/L	0
Distribution	9	0.02 to 0.10	ug/L	0

Summary of Organic Parameters

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

Parameter	Sample Date	Result Value	Unit of Measure	Maximum Acceptable Concentration (MAC)	Interim Maximum Acceptable Concentration (IMAC)	Exceedance
Alachlor	Mar 19, 2018	0.02	ug/L		0.005 mg/L	No
Atrazine + N-dealkylated metabolites	March 19, 2018	0.01	ug/L		0.005 mg/L	No
Benzene	March 19, 2018	0.32	ug/L	0.005 mg/L		No
Benzo(a)pyrene	March 19, 2018	0.004	ug/L	0.00001 mg/L		No
Bromoxynil	March 19, 2018	0.33	ug/L		0.005 mg/L	No
Carbaryl	March 19, 2018	0.05	ug/L	0.09 mg/L	0.005 mg/L	No
Carbofuran	March 19, 2018	0.01	ug/L	0.09 mg/L		No
Carbon Tetrachloride	March 19, 2018	0.16	ug/L	0.005 mg/L		No
Chlorpyriphos	March 19, 2018	0.02	ug/L	0.09 mg/L		No
Diazinon	March 19, 2018	0.02	ug/L	0.02 mg/L		No
Dicamba	March 19, 2018	0.20	ug/L	0.12 mg/L		No
1,2-Dichlorobenzene	March 19, 2018	0.41		0.20 mg/L		No
1,4-Dichlorobenzene	March 19, 2018	0.36	ug/L	0.005 mg/L		No

Parameter	Sample Date	Result Value	Unit of Measure	Maximum Acceptable Concentration (MAC)	Interim Maximum Acceptable Concentration (IMAC)	Exceedance
1,2-Dichloroethane	March 19, 2018	0.35	ug/L	0.005 mg/L		No
1,1-Dichloroethylene (vinylidene chloride)	March 19, 2018	0.33	ug/L	0.014 mg/L		No
Dichloromethane	March 19, 2018	0.35	ug/L	0.05 mg/L		No
2-4 Dichlorophenol	March 19, 2018	0.15	ug/L	0.9 mg/L		No
2,4-Dichlorophenoxy acetic acid (2,4-D)	March 19, 2018	0.19	ug/L	0.1 mg/L		No
Diclofop-methyl	March 19, 2018	0.40	ug/L	0.009 mg/L		No
Dimethoate	March 19, 2018	0.03	ug/L	0.02 mg/L		No
Diquat	March 19, 2018	1.0	ug/L	0.07 mg/L		No
Diuron	March 19, 2018	0.03	ug/L	0.15 mg/L		No
Glyphosate	March 19, 2018	1.0	ug/L	0.28 mg/L		No
Malathion	March 19, 2018	0.02	ug/L	0.19 mg/L		No
Metolachlor	March 19, 2018	0.01	ug/L	0.05 mg/L		No
Metribuzin	March 19, 2018	0.02	ug/L	0.08 mg/L		No

Parameter	Sample Date	Result Value	Unit of Measure	Maximum Acceptable Concentration (MAC)	Interim Maximum Acceptable Concentration (IMAC)	Exceedance
Monochlorobenzene	March 19, 2018	0.30	ug/L	0.08 mg/L		No
Paraquat	March 19, 2018	1.0	ug/L	0.01 mg/L		No
Pentachlorophenol	March 19, 2018	0.15	ug/L	0.06 mg/L		No
Phorate	March 19, 2018	0.01	ug/L	0.002 mg/L		No
Picloram	March 19, 2018	1.0	ug/L	0.19 mg/L		No
Polychlorinated Biphenyls(PCBs) – Total	March 19, 2018	0.04	ug/L	0.003 mg/L		No
Prometryne	March 19, 2018	0.03	ug/L	0.001 mg/L		No
Simazine	March 19, 2018	0.01	ug/L	0.01 mg/L		No
THM (RAA # 3 Calculated Average		18	ug/L	0.10 mg/L based on a four-quarter moving annual average		No
Terbufos	March 19, 2018	0.01	ug/L		0.001 mg/L	No
Tetrachloroethylene (perchloroethylene)	March 19, 2018	0.35	ug/L	0.03 mg/L		No
2,3,4,6-Tetrachlorophenol	March 19, 2018	0.20	ug/L	0.1 mg/L		No

Parameter	Sample Date	Result Value	Unit of Measure	Maximum Acceptable Concentration (MAC)	Interim Maximum Acceptable Concentration (IMAC)	Exceedance
Triallate	March 19, 2018	0.01	ug/L	0.23 mg/L		No
Trichloroethylene	March 19, 2018	0.44	ug/L	0.005 mg/L		No
2,4,6-Trichlorophenol	March 19, 2018	0.25	ug/L	0.005 mg/L		No
Trifluralin	March 19, 2018	0.02	ug/L	0.045 mg/L		No
Vinyl Chloride	March 19, 2018	0.17	ug/L	0.002 mg/L		No

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
Not Applicable			