ANNUAL REPORT TEMPLATE

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, 2017 to December 31, 2017

Complete if your Category is Large Municipal Residential or Small Municipal Residential

Does your Drinking-Water System serve more than 10,000 people? Yes [X] No [ ]

Is your annual report available to the public at no charge on a web site on the Internet? Yes [X] No [ ]

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

Town of The Blue Mountains
32 Mill Street, Thornbury, ON

Town Website:
www.thebluemountains.ca

Complete for all other Categories.

Number of Designated Facilities served:

Did you provide a copy of your annual report to all Designated Facilities you serve?
Yes [ ] No [X]

Number of Interested Authorities you report to:

Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?
Yes [ ] No [X]

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

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?
Yes [ ] No [X]

Indicate how you notified system users that your annual report is available, and is free of charge.

- **[X] Public access/notice via the web**
- **[X] Public access/notice via Government Office**
- **[X] 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

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 also 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 m^3 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, 6 booster

stations, 2 in-ground reservoirs complete with booster stations, 2 grade level reservoirs and 1 standpipe.

Thornbury Water Tower
An elevated storage tank is located on Victoria Street in Thornbury and is referred to as the Thornbury Water Tower. This Town has a capacity of 747 m^3. The Tower level supplies water pressure to the 10th Line Booster Station, Thornbury Reservoir, Camperdown Court Booster Station 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 m³.

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 m³ 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 19 and Grey Road 21and is referred to as the Mountain Road Booster. 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.

List all water treatment chemicals used over this reporting period

Chlorine (liquefied gas)
Sodium Hypochlorite (12%)
Citric Acid
Sodium Hydroxide
Calcium Thiosulphate

Were any significant expenses incurred to?

- **[X]** Install required equipment
- **[ ]** Repair required equipment
- **[X]** Replace required equipment

Please provide a brief description and a breakdown of monetary expenses incurred

Chlorine Pumps & Analyzers Replacement

Replacement of chlorine pumps and chlorine analyzers

Expended this year: $52,931

Programmable Logic Control (PLC) Panel Replacement at Thornbury and Camperdown Reservoirs, Happy Valley Booster Station and Thornbury WTP

Replacement of PLC Panels at the Thornbury and Camperdown Reservoirs, the Happy Valley Booster Station and the Thornbury Water Treatment Plant that have reached the end of their useful lives.

Expended this year: $66,136

Water System Pressure Readings

Installation of pressure monitors to provide information that will allow Operators to correct deficiencies with Pressure Reducing Valves (PRVs) in specific areas of Town

Expended this year: $6,922

Water System Supervisory Control And Data Acquisition (SCADA) Improvements

To improve and expand the existing SCADA system, including new software and replacement hardware

Expended this year: $6,094

Water Utility Dump Trailer Replacement

Replacement of a utility dump trailer that reached the end of its useful life

Expended this year: $9,458.59

Water Vehicle Replacement

Replacement of existing vehicles that has reached the end of their useful life

Expended this year: $57,850

Provide 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	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
August 23, 2017	Total Coliform	320	cfu/100 mL	Flushed and collected two consecutive sets of samples	August 25, 2017
October 10, 2017	Free Chlorine Residual	0.03	mg/L	Flushing and residual restored	October 10, 2017

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

	Number of Samples	Range of E.Coli Or Fecal Results (min #)-(max #)	Range of Total Coliform Results (min #)-(max #)	Number of HPC Samples	Range of HPC Results (min #)-(max #)
Raw	52	0 to 83	0 to 1080		
Treated	52	0	0	52	0 to 1
Distribution	557	0	0 to 320	411	0 to >2000

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

	Number of Grab Samples	Range of Results (min #)-(max #)	Unit of Measure
Turbidity			
Treated	8760	0.025 to 0.574	NTU
Rack 1	8760	0.014 to 0.480	NTU
Rack 2	8760	0.016 to 0.352	NTU
Rack 3	8760	0.015 to 0.492	NTU
Chlorine			
Finish	8760	1.26 to 1.94	mg/L
Thornbury Reservoir	8760	1.063 to 2.00	mg/L
10th Line Booster Station	8760	1.19 to 2.37	mg/L
Arrowhead Road Booster Station	8760	1.24 to 2.01	mg/L
Arrowhead Road Booster Station By-pass	8760	1.13 to 1.83	mg/L
Happy Valley Booster Station	8760	0.79 to 2.49	mg/L
Camperdown Reservoir Upper Zone	8760	1.07 to 2.39	mg/L

***NOTE**: For continuous monitors use 8760 as the number of samples.*

Camperdown Influent / Effluent	**8760**	**1.23 to 2.50**	**mg/L**
Mountain Road Booster Station	**8760**	**1.13 to 1.48**	**mg/L**
Distribution	**6467**	**0.03 to 2.36**	**mg/L**
Fluoride (If the DWS provides fluoridation)			

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
Municipal Drinking Water License Number: 111-101 Issue Number: 2	Suspended Solids			

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

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	March 20, 2017	0.08	ug/L	No
Arsenic	March 20, 2017	0.4	ug/L	No
Barium	March 20, 2017	13.7	ug/L	No
Boron	March 20, 2017	12	ug/L	No
Cadmium	March 20, 2017	0.003	ug/L	No
Chromium	March 20, 2017	0.62	ug/L	No
***Lead**			ug/L	No
Mercury	March 20, 2017	0.01	ug/L	No
Sodium	March 21, 2016	5.10	mg/L	No
Uranium	March 20, 2017	0.184	ug/L	No
Fluoride	March 23, 2015	0.11	mg/L	No
Nitrite	December 4, 2017	0.003	mg/L	No
Nitrate	December 4, 2017	0.260	mg/L	No

*only for drinking water systems testing under Schedule 15.2; this includes large municipal non-residential systems, small municipal non-residential systems, non-municipal seasonal residential systems, large non-municipal non-residential systems, and small non-municipal non-residential systems

Summary of lead testing under Schedule 15.1 during this reporting period
(applicable to the following drinking water systems; large municipal residential systems**,** small municipal residential systems, and non-municipal year-round residential systems)

Location Type	Number of Samples	Range of Lead Results (min#) – (max #)	Unit of Measure	Number of Exceedances
Plumbing	**N/A**			
Distribution	**4**	**0.01 to 0.06**	**ug/L**	**0**

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	March 20, 2017	0.02	ug/L	**No**
Atrazine + N-dealkylated metabolites	March 20, 2017	0.01	ug/L	**No**
Benzene	March 20, 2017	0.32	ug/L	**No**
Benzo(a)pyrene	March 20, 2017	0.004	ug/L	No
Bromoxynil	March 20, 2017	0.33	ug/L	No
Carbaryl	March 20, 2017	0.05	ug/L	No
Carbofuran	March 20, 2017	0.01	ug/L	No
Carbon Tetrachloride	March 20, 2017	0.16	ug/L	No
Chlorpyrifos	March 20, 2017	0.02	ug/L	No
Diazinon	March 20, 2017	0.02	ug/L	No
Dicamba	March 20, 2017	0.20	ug/L	No
1,2-Dichlorobenzene	March 20, 2017	0.41	ug/L	No
1,4-Dichlorobenzene	March 20, 2017	0.36	ug/L	No
1,2-Dichloroethane	March 20, 2017	0.35	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	March 20, 2017	0.33	ug/L	No
Dichloromethane	March 20, 2017	0.35	ug/L	No
2-4 Dichlorophenol	March 20, 2017	0.15	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	March 20, 2017	0.19	ug/L	No
Diclofop-methyl	March 20, 2017	0.40	ug/L	No
Dimethoate	March 20, 2017	0.03	ug/L	No
Diquat	March 20, 2017	1	ug/L	No
Diuron	March 20, 2017	0.03	ug/L	No
Glyphosate	March 20, 2017	1	ug/L	No
Malathion	March 20, 2017	0.02	ug/L	No
Metolachlor	March 20, 2017	0.01	ug/L	No
Metribuzin	March 20, 2017	0.02	ug/L	No
Monochlorobenzene	March 20, 2017	0.3	ug/L	No
Paraquat	March 20, 2017	1	ug/L	No
Pentachlorophenol	March 20, 2017	0.15	ug/L	No
Phorate	March 20, 2017	0.01	ug/L	No
Picloram	March 20, 2017	1	ug/L	No

Polychlorinated Biphenyls(PCB)	March 20, 2017	0.04	ug/L	No
Prometryne	March 20, 2017	0.03	ug/L	No
Simazine	March 20, 2017	0.01	ug/L	No
THM (NOTE: show latest annual average)	October 2, 2017	40	ug/L	No
Terbufos	March 20, 2017	0.01	ug/L	No
Tetrachloroethylene	March 20, 2017	0.35	ug/L	No
2,3,4,6-Tetrachlorophenol	March 20, 2017	0.20	ug/L	No
Triallate	March 20, 2017	0.01	ug/L	No
Trichloroethylene	March 20, 2017	0.44	ug/L	No
2,4,6-Trichlorophenol	March 20, 2017	0.25	ug/L	No
Trifluralin	March 20, 2017	0.02	ug/L	No
Vinyl Chloride	March 20, 2017	0.17	ug/L	No

List any 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
Trihalomethanes	**53**	**ug/L**	**July 4, 2017**
Trihalomethanes	**52**	**ug/L**	**October 2, 2017**
Trihalomethanes	**50**	**ug/L**	**October 2, 2017**

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Sample for: Trihalomethanes - Treated (ug/L)

Date	# of Samples	Location	Results / Range
03-Jan-17	1	Camperdown Reservoir	27
3-Jan-17	1	Swiss Meadows Standpipe	40
05-Apr-17	1	Camperdown Reservoir	28
05-Apr-17	1	Swiss Meadows Standpipe	33
04-Jul-17	1	Blueski George Crescent SS (026)	40
04-Jul-17	1	Swiss Meadows Standpipe	53
02-Oct-17	1	Blueski George Crescent SS (026)	52
02-Oct-17	1	Swiss Meadows Standpipe	50
		Annual Average	**40**

Calculating Trihaomethane Running Annual Average

Quarter	THM Sample Result # 1 ug/L	THM Sample Result # 2 ug/L	THM Sample Result # 3 ug/L	THM Sample Result # 4	Quarterly Average ug/L
October 1- December 31, 2015	36	53			22.25
January 1 - March 31, 2016	28	44	26	35	33.25
April 1 - June 30, 2016	25	49			18.5
July 1 - September 30, 2016	50	70			30
RAA # 1 Calculated Average					**26**
October 1 - December 31, 2016	36	53			22.25
January 1 - March 31, 2017	27	40			16.75
April 1 - June 30, 2017	28	33			15.25
July 1 - September 30, 2017	40	53			23.25
RAA # 2 Calculated Average					**19**

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Sample for: Total Haloacetic Acids (ug/L)

Date	# of Samples	Location	Results / Range
06-Mar-17	1	Swiss Meadows Standpipe	25.5
03-Apr-17	1	Camperdown Reservoir	16.3
03-Apr-17	1	Swiss Meadows Standpipe	24.9
04-Jul-17	1	Blueski George Crescent SS (026)	16.5
04-Jul-17	1	Swiss Meadows Standpipe	29.8
02-Oct-17	1	Blueski George Crescent SS (026)	27.4
02-Oct-17	1	Swiss Meadows Standpipe	31.9

Calculating Haloacetic Acid Running Annual Average

Quarter	HAA Sample Result # 1 ug/L	HAA Sample Result # 2 ug/L	Quarterly Average
January 1 - March 31, 2017	25.5		6.375
April 1 - June 30, 2017	16.3	24.9	10.3
July 1 - September 30, 2017	16.5	29.8	11.575
October 1 - December 31, 2017	27.4	31.9	14.825

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Sample for: Process Waste Water Total Suspended Solids (mg/L

Date	# of Samples	Location	Results / Range
January 3	1	SGS Lakefield Laboratory	7
February 6	1	SGS Lakefield Laboratory	6
March 6	1	SGS Lakefield Laboratory	7
April 3	1	SGS Lakefield Laboratory	<2
May 1	1	SGS Lakefield Laboratory	9
June 26	1	SGS Lakefield Laboratory	<2
July 4	1	SGS Lakefield Laboratory	3
August 8	1	SGS Lakefield Laboratory	6
September 5	1	SGS Lakefield Laboratory	7
October 2	1	SGS Lakefield Laboratory	5
November 6	1	SGS Lakefield Laboratory	8
December 4	1	SGS Lakefield Laboratory	4
		Annual Average	5

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Sample for: Nitrate - Raw & Treated (mg/L)

Date	# of Samples	Location	Results / Range
03-Jan-17	1	Thornbury WTP - Raw	0.270
03-Jan-17	1	Little Beaver - Source Protection	1.850
03-Jan-17	1	Big Head River - Source Protection	1.730
03-Jan-17	1	Beaver River - Source Protection	1.140
03-Jan-17	1	Indian Brook	2.990
03-Jan-17	1	Thornbury WTP - Treated	0.292
06-Feb-17	1	Thornbury WTP - Raw	0.261
06-Feb-17	1	Thornbury WTP - Treated	0.275
06-Mar-17	1	Thornbury WTP - Raw	0.307
06-Mar-17	1	Little Beaver River - Source Protection	1.540
06-Mar-17	1	Big Head River - Source Protection	1.450
06-Mar-17	1	Beaver River - Source Protection	0.856
06-Mar-17	1	Indian Brook	2.550
06-Mar-17	1	Thornbury WTP - Treated	0.343
03-Apr-17	1	Thornbury WTP - Raw	0.286
03-Apr-17	1	Little Beaver River - Source Protection	0.898
03-Apr-17	1	Big Head River - Source Protection	0.998
03-Apr-17	1	Beaver River - Source Protection	0.689
03-Apr-17	1	Indian Brook	2.070
01-May-17	1	Thornbury WTP - Raw	0.342
01-May-17	1	Thornbury WTP - Treated	0.323
05-Jun-17	1	Thornbury WTP - Treated	0.259
26-Jun-17	1	Thornbury WTP - Raw	0.261
04-Jul-17	1	Thornbury WTP - Treated	0.261
04-Jul-17	1	Thornbury WTP - Raw	0.256
04-Jul-17	1	Little Beaver River - Source Protection	1.200
04-Jul-17	1	Big Head River - Source Protection	0.619
04-Jul-17	1	Beaver River - Source Protection	0.166
04-Jul-17	1	Indian Brook	1.380
08-Aug-17	1	Thornbury WTP - Treated	0.254
08-Aug-17	1	Thornbury WTP - Raw	0.252
05-Sep-17	1	Thornbury WTP - Treated	0.243
05-Sep-17	1	Thornbury WTP - Raw	0.236
02-Oct-17	1	Thornbury WTP - Treated	0.239
02-Oct-17	1	Thornbury WTP - Raw	0.230
2-Oct-17	1	Little Beaver River - Source Protection	0.207
2-Oct-17	1	Big Head River - Source Protection	0.589
2-Oct-17	1	Beaver River - Source Protection	0.233
2-Oct-17	1	Indian Brook	0.563
6-Nov-17	1	Thornbury WTP - Raw	0.244
6-Nov-17	1	Thornbury WTP - Treated	0.256
4-Dec-17	1	Thornbury WTP - Raw	0.254
4-Dec-17	1	Little Beaver River - Source Protection	1.180
4-Dec-17	1	Big Head River - Source Protection	1.150
4-Dec-17	1	Beaver River - Source Protection	0.668
4-Dec-17	1	Indian Brook	1.790
4-Dec-17	1	Thornbury WTP - Treated	0.260

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Sample for: Nitrite - Raw & Treated (mg/L)

Date	# of Samples	Location	Results / Range
03-Jan-17	1	Thornbury WTP - Raw	0.003
03-Jan-17	1	Little Beaver River - Source Protection	0.003
03-Jan-17	1	Big Head River - Source Protection	0.003
03-Jan-17	1	Beaver River - Source Protection	0.004
03-Jan-17	1	Indian Brook	0.003
03-Jan-17	1	Thornbury WTP - Treated	0.003
06-Feb-17	1	Thornbury WTP - Raw	0.003
06-Feb-17	1	Thornbury WTP - Treated	0.003
06-Mar-17	1	Thornbury WTP - Raw	0.003
06-Mar-17	1	Little Beaver River - Source Protection	0.003
06-Mar-17	1	Big Head River - Source Protection	0.003
06-Mar-17	1	Beaver River - Source Protection	0.003
06-Mar-17	1	Indian Brook	0.003
06-Mar-17	1	Thornbury WTP - Treated	0.003
03-Apr-17	1	Thornbury WTP - Raw	0.003
03-Apr-17	1	Little Beaver River - Source Protection	0.003
03-Apr-17	1	Big Head River - Source Protection	0.003
03-Apr-17	1	Beaver River - Source Protection	0.030
03-Apr-17	1	Indian Brook	0.004
01-May-17	1	Thornbury WTP - Raw	0.003
01-May-17	1	Thornbury WTP - Treated	0.003
05-Jun-17	1	Thornbury WTP - Treated	0.003
26-Jun-17	1	Thornbury WTP - Raw	0.003
04-Jul-17	1	Thornbury WTP - Treated	0.003
04-Jul-17	1	Thornbury WTP - Raw	0.003
04-Jul-17	1	Little Beaver River - Source Protection	0.012
04-Jul-17	1	Big Head River - Source Protection	0.003
04-Jul-17	1	Beaver River - Source Protection	0.003
04-Jul-17	1	Indian Brook	0.003
08-Aug-17	1	Thornbury WTP - Raw	0.003
08-Aug-17	1	Thornbury WTP - Treated	0.003
05-Sep-17	1	Thornbury WTP - Treated	0.003
05-Sep-17	1	Thornbury WTP - Raw	0.003
2-Oct-17	1	Thornbury WTP - Treated	0.003
2-Oct-17	1	Thornbury WTP - Raw	0.003
2-Oct-17	1	Little Beaver River - Source Protection	0.003
2-Oct-17	1	Big Head River - Source Protection	0.003
2-Oct-17	1	Beaver River - Source Protection	0.003
2-Oct-17	1	Indian Brook	0.003
6-Nov-17	1	Thornbury WTP - Raw	0.003
6-Nov-17	1	Thornbury WTP - Treated	0.003
4-Dec-17	1	Thornbury WTP - Raw	0.003
4-Dec-17	1	Little Beaver River - Source Protection	0.003
4-Dec-17	1	Big Head River - Source Protection	0.003
4-Dec-17	1	Beaver River - Source Protection	0.005
4-Dec-17	1	Indian Brook	0.003
4-Dec-17	1	Thornbury WTP - Treated	0.003

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Sample for: pH & Alkalinity

Date	# of Samples	Location	pH	Alkalinity
03-Jan-17	1	10th Line Water Booster Station	8.08	76
03-Jan-17	1	Camperdown Reservoir	8.03	71
03-Jan-17	1	Arrowhead Road Booster Station	8.09	70
05-Sep-17	1	Sunset Blvd. DE SS (030)	7.98	70
05-Sep-17	1	Blueski George Crescent SS (026)	8.08	71
05-Sep-17	1	Drakes Path SS (018)	8.06	75
05-Sep-17	1	Swiss Meadows Standpipe	8.16	74
18-Dec-17	1	10th Line Water Booster Station	7.91	74
18-Dec-17	1	Thornbury Reservoir	7.92	72
18-Dec-17	1	Arrowhead Road Booster Station	8.04	70
18-Dec-17	1	Swiss Meadows Standpipe	8.12	75

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Sample for: Microcystin

Date	# of Samples	Location	Results / Range
05-Jun-17	1	Thornbury WTP - Raw	0.1
05-Jun-17	1	Thornbury WTP - Treated	0.1
05-Jun-17	1	Swiss Meadows Standpipe	0.1
12-Jun-17	1	Thornbury WTP - Raw	0.1
12-Jun-17	1	Thornbury WTP - Treated	0.1
12-Jun-17	1	Swiss Meadows Standpipe	0.1
19-Jun-17	1	Thornbury WTP - Raw	0.1
19-Jun-17	1	Thornbury WTP - Treated	0.1
19-Jun-17	1	Swiss Meadows Standpipe	0.1
26-Jun-17	1	Thornbury WTP - Raw	0.1
26-Jun-17	1	Thornbury WTP - Treated	0.1
26-Jun-17	1	Swiss Meadows Standpipe	0.1