



OPTIONAL ANNUAL REPORT TEMPLATE

Drinking-Water System Number:	260006737
Drinking-Water System Name:	Ballantrae-Musselman’s Lake Water Distribution System
Drinking-Water System Owner:	Town of Whitchurch-Stouffville
Drinking-Water System Category:	Water Distribution Sub-System – Class 1
Period being reported:	January 1, 2016 to December 31, 2016

<p><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes [] No [x]</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [x] No []</p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px;"> <p>Town of Whitchurch-Stouffville 111 Sandiford Drive Stouffville ON, L4A 7X5 www.townofws.ca/en/residents/water-quality.asp</p> </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served:</p> <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p>0 – Not Applicable</p> </div> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [] No [x]</p> <p>Number of Interested Authorities you report to:</p> <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p>0 – Not Applicable</p> </div> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No [x]</p>
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Note: For the following tables below, additional rows or columns may be added or an appendix may be attached to the report

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	

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] 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 _____

Describe your Drinking-Water System

The water treatment and supply for the Ballantrae/Musselman's Lake distribution system is the responsibility of the Regional Municipality of York. The Communities of Ballantrae and Musselman's Lake are presently serviced by three ground production wells and one elevated storage tank.

For further information regarding water supply and treatment, contact the Regional Municipality of York located at 17250 Yonge Street, Newmarket, Ontario, L3Y 6Z1 or visit their website at www.york.ca.

The Town of Whitchurch-Stouffville owns and operates the Ballantrae-Musselman's Lake Water Distribution System, servicing approximately 5900 residents in the communities of Ballantrae and Musselman's Lake.

Presently, this water distribution system infrastructure consists of approximately 47 kilometres of watermain, 296 watermain valves, 337 hydrants and 16 sampling stations.

The operation and maintenance of this system to ensure safe drinking water is the responsibility of the Town's Public Works Department. Staff are certified in accordance with the Ministry of the Environment and Climate Change of Ontario (MOECC) requirements. In 2011 the MOECC issued to the Town the Drinking Water License for the Ballantrae Musselman's Lake Water Distribution System and also approved the Town's "Operational Plan". This plan is part of the Town's Quality Management System that describes the processes and procedures by which this water distribution system is operated and maintained. Activities generally include watermain break repairs, valve maintenance, hydrant maintenance, water locate stakeouts, watermain flushing and water quality sampling. The Operational Plan is available for review to the Public at the Town's Municipal Office (111 Sandiford Dr, Stouffville ON) or on the Town's website www.townofws.ca. A copy of the water distribution system annual and summary reports are also available on the Town's website.

List all water treatment chemicals used over this reporting period

Not applicable, treatment chemicals are introduced at the various sources by the Region of York only. Refer to the Region of York website www.york.ca.



Were any significant expenses incurred to?

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

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

Installation of a sampling station at McCowan Rd. and Aurora Rd. - \$4,700.00

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
	None				

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	Refer to Region of York Annual Report				
Treated	Refer to Region of York Annual Report				
Distribution	280	0-0	0-0	133	0-24

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	Refer to Region of York Annual Report		
Chlorine	889	0.59-1.82	mg/L
Fluoride (If the DWS provides fluoridation)			

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

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				



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

Note: Refer to Region of York Annual Report for supply and treatment results

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony				
Arsenic				
Barium				
Boron				
Cadmium				
Chromium				
*Lead				
Mercury				
Selenium				
Sodium				
Uranium				
Fluoride				
Nitrite	Dec. 19, 2016	0.003	mg/L	No
Nitrate	Dec. 19, 2016	0.002	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	0			
Distribution	10	0.0005-0.0011	mg/L	0

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

Note: Refer to Region of York Annual Report for supply and treatment results

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor				
Aldicarb				
Aldrin + Dieldrin				
Atrazine + N-dealkylated metabolites				
Azinphos-methyl				
Bendiocarb				
Benzene				
Benzo(a)pyrene				



Bromoxynil				
Carbaryl				
Carbofuran				
Carbon Tetrachloride				
Chlordane (Total)				
Chlorpyrifos				
Cyanazine				
Diazinon				
Dicamba				
1,2-Dichlorobenzene				
1,4-Dichlorobenzene				
Dichlorodiphenyltrichloroethane (DDT) + metabolites				
1,2-Dichloroethane				
1,1-Dichloroethylene (vinylidene chloride)				
Dichloromethane				
2,4 Dichlorophenol				
2,4-Dichlorophenoxy acetic acid (2,4-D)				
Diclofop-methyl				
Dimethoate				
Dinoseb				
Diquat				
Diuron				
Glyphosate				
HAA (NOTE: show latest annual average)	Running Annual Average	22	ug/L	No
Heptachlor + Heptachlor Epoxide				
Lindane (Total)				
Malathion				
Methoxychlor				
Metolachlor				
Metribuzin				
Monochlorobenzene				
Paraquat				
Parathion				
Pentachlorophenol				
Phorate				
Picloram				
Polychlorinated Biphenyls(PCB)				
Prometryne				
Simazine				



THM (NOTE: show latest annual average)	Running Annual Average	21.0	ug/l	No
Temephos				
Terbufos				
Tetrachloroethylene				
2,3,4,6-Tetrachlorophenol				
Triallate				
Trichloroethylene				
2,4,6-Trichlorophenol				
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)				
Trifluralin				
Vinyl Chloride				

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
Not Applicable			