

# Town of Whitchurch-Stouffville - Ballantrae-Musselman's Lake DWS Drinking Water Systems Regulation O. Reg. 170/03 Section 11 Reporting

## **\*MODIFIED\* OPTIONAL ANNUAL REPORT TEMPLATE**

Accessible formats or communication supports are available upon request.

<b>Drinking-Water System Number:</b>	260006737
<b>Drinking-Water System Name:</b>	<b>Ballantrae-Musselman's Lake Drinking Water System</b>
<b>Drinking-Water System Owner:</b>	Town of Whitchurch-Stouffville
<b>Drinking-Water System Category:</b>	Large Municipal Residential, Class 1
<b>Period being reported:</b>	January 1, 2017 to December 31, 2017

**The Ballantrae-Musselman's Lake Drinking Water System serves less than 10,000 people.**

**This annual report is available to the public at no charge on the Town's web site and upon request.**

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

Town of Whitchurch-Stouffville  
111 Sandiford Drive  
Stouffville, ON L4A 0Z8

[www.townofws.ca/en/residents/water-quality.aspx](http://www.townofws.ca/en/residents/water-quality.aspx)

**No additional Drinking Water System owners that are connected to and receive drinking water from the Town of Stouffville.**

**System users were notified that the Ballantrae-Musselman's Lake annual report is available free of charge by public access and notice through:**

- Web
- Municipal Government Office (Administrative Office – 111 Sandiford Drive)
- Public Request at any time

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## Description of the Ballantrae-Musselman's Lake Drinking Water System

### About Ballantrae-Musselman's Lake

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/drinkingwater](http://www.york.ca/drinkingwater).

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](http://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/drinkingwater](http://www.york.ca/drinkingwater).

### Were any significant expenses incurred to?

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

### Brief description and breakdown of monetary expenses incurred

\$7,500 for various watermain, valve and hydrant repairs.

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**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 and Location	Parameter	Result	Unit of Measure	Corrective Action and Result	Corrective Action Date
None					

**Microbiological testing done under the Schedule 10 of Regulation 170/03 during this reporting period**

	Number of Distribution Samples	Range of Results (min # - max #)	Detections
<b>E. coli</b>	256	0 - 0	0
<b>Total Coliforms</b>	256	0 - 0	0
<b>HPC</b>	118	0 - 2	N/A
<b>Raw and Treated</b>	For raw and treated samples collected under Schedule 10, refer to the <a href="#">Region of York Annual Report</a> .		

**Operational testing done under Schedule 7 of Regulation 170/03 during the period covered by this Annual Report**

	Number of Grab Samples	Range of Results (min #)-(max #)	Unit of Measure	<i><b>NOTE:</b> For continuous monitors use 8760 as the number of samples.</i>
<b>Turbidity (treated)</b>	Refer to <a href="#">Region of York Annual Report</a> .			
<b>Chlorine (free)</b>	876	0.63-1.82	mg/L	
<b>Fluoride (If the DWS provides fluoridation)</b>	Refer to <a href="#">Region of York Annual Report</a> .			

**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 result.**

Parameter	Date Sampled	Result	Unit of Measure
Nitrite	December 20, 2017	<0.50	mg/L
Nitrate	December 20, 2017	<0.050	mg/L
Lead (Distribution system)	October 12, 2017	0.0011	mg/L

For all other results please refer to the [Region of York Annual Report](#).

**Summary of calculated running annual average Trihalomethane (THM) during this reporting period**

Facility monitored for THM	Ballantrae-Musselman's Lake DWS
Annual Average Q1-Q4 2017	0.022 mg/L
Does result exceed Standard of 0.100 mg/L?	No

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**York Region monitors another group of disinfection by-products called Total Haloacetic Acids (HAAs).**

<b>Facility monitored for HAAs</b>	<b>Ballantrae-Musselman's Lake DWS</b>
Annual Average (mg/L)	< 0.020 mg/L
Does result exceed Proposed Standard of 0.080 mg/L?	No

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

<b>Parameter</b>	<b>Result Value</b>	<b>Unit of Measure</b>	<b>Date of Sample</b>
None			