

## Drinking-Water Systems Regulation O. Reg. 170/03

**JPart III Form 2**  
**Section 11. ANNUAL REPORT.**

<b>Drinking-Water System Number:</b>	260006737
<b>Drinking-Water System Name:</b>	Ballantrae - Musselman Lake Distribution System
<b>Drinking-Water System Owner:</b>	Town of Whitchurch-Stouffville
<b>Drinking-Water System Category:</b>	Water Distribution Sub-System – Class 1
<b>Period being reported:</b>	January 1 <sup>st</sup> , 2008 to December 31 <sup>st</sup> , 2008

<p><b><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></b></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes [ ] No [<input checked="" type="checkbox"/>]</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [<input checked="" type="checkbox"/>] 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; margin-top: 5px;">       Town of Whitchurch-Stouffville        Public Works Department        37 Sandiford Drive, 4<sup>th</sup> Floor        Stouffville, Ontario     </div>	<p><b><u>Complete for all other Categories.</u></b></p> <p>Number of Designated Facilities served:  <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px 0;"></div> </p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [ ] No [ ]</p> <p>Number of Interested Authorities you report to: <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px 0;"></div></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [ ] No [ ]</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
None – 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 [] 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 Town of Whitchurch-Stouffville owns and operates the Ballantrae-Musselman Lake Water Distribution System which services the residents and businesses of this Community. At present, the system consists of approximately thirty (30) kilometres of watermain, 250+ watermain valves and 300+ hydrants associated with a large municipal drinking water system.

The Town's Municipal Public Works Department staffs, certified by the Ministry of the Environment of Ontario (MOE), perform various duties to ensure that the water quality of the system meets provincial requirements. A component of their work involves the collection of water samples at various locations on a routine basis. These are sent to the York-Durham Regional Laboratory, an MOE accredited facility, where microbiological, organic and inorganic tests are performed to ensure adequate water quality. In addition to these analyses, the Public Works Department provides further assurances of safe drinking water by testing for the presence of chlorine residuals in the system on a daily basis. To help assure the appropriate water quality, a spot flushing program is performed on a monthly basis. In addition the entire system is flushed twice annually.

The supply of water to this distribution system is the responsibility of the Regional Municipality of York. The Communities of Ballantrae and Musselman Lake are serviced by two (2) ground production wells and a 2271 cubic metre elevated storage tank.

For further information, contact the Regional Municipality of York, Water and Wastewater Branch, 17250 Yonge Street, Newmarket, Ontario, L3Y 6Z1, telephone – 905-895-1200 or visit their website at [www.region.york.on.ca](http://www.region.york.on.ca)

**List all water treatment chemicals used over this reporting period**

Not applicable  
 No chemicals introduced in the distribution system  
 Treatment chemicals introduced at source only by Region of York

**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**

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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	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
January 24, 2008	Total Coliform	Present using P/A test	P/A/100ml confirmed	Flush & Resample	January 24 <sup>th</sup> , 2008

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February 29 <sup>th</sup> , 2008	Lead as Pb	Phys/Chem	0.0455mg/L	Flush & Resample	March 18 <sup>th</sup> , 2008
Aug 13 <sup>th</sup> , 2008	Lead as Pb	Phys/Chem	0.0147mg/L	Flush & Resample	August 21 <sup>st</sup> , 2008
September 25 <sup>th</sup> , 2008	Total Coliform	Present using P/A test	P/A/100ml confirmed	Flush & Resample	September 25 <sup>th</sup> , 2008

**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					
Treated					
Distribution	247	0-0	0-P	115	<1 - 1

**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 #)
Turbidity		
Chlorine	994	(0.24)– (1.75)
Fluoride (If the DWS provides fluoridation)		

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

*NOTE: Record the unit of measure if it is **not** milligrams per litre.*

**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

**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				
Arsenic				
Barium				
Boron				
Cadmium				

Chromium				
Lead	November 25, 2008	0.0007	mg/L	
Mercury				
Selenium				
Sodium				
Uranium				
Fluoride				
Nitrite				
Nitrate				

**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				
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				

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)	October 1, 2008	20	ug/L	
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

(Only if DWS category is large municipal residential, small municipal residential, large municipal non residential, non municipal year round residential, large non municipal non residential)