

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

JPart III Form 2

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	260006737
Drinking-Water System Name:	Ballantrae - Musselman Lake 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 st , 2009 to December 31 st , 2009

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

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

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

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

Town of Whitchurch-Stouffville
Public Works Department
37 Sandiford Drive, 4th Floor
Stouffville, Ontario
www.townofws.com/TOWN_Publicwater.asp

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 []

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 []

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 forty (40) kilometres of watermain, 260+ watermain valves and 300+ hydrants associated with a large municipal drinking water system.

This distribution system is operated as a "large municipal residential system" under Regulation 170/03.

The Town's Municipal Public Works Department staff, certified by the Ministry of the Environment of Ontario (MOE), performs various duties to ensure that the water quality of the system meets provincial requirements. Activities generally include watermain break repairs, valve exercising and repairs, fire hydrant maintenance, water locate stakeouts and water sampling.

Water samples are taken 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.

For further information on The Town of Whitchurch-Stouffville water distribution systems refer to the annual water summary report.

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. The wells are located at the North-east corner of Aurora Road and McCowan Road and the tank is situated on the Ninth Line north of Bloomington Road.

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

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.

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Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
March 31 st , 2009	Total Coliform	Present using P/A test	P/A/100ml confirmed	Flush & Resample	March 31 st , 2009
October 14 th , 2009	Lead as Pb	exceeds standard	0.0385mg/L	Flush & Resample	November 10 th , 2009

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	299	0-0	0-P	147	<1 – 12

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	1161	(0.25)– (1.86)
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 6 th , 2009	0.0011	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)	November 18, 2009	24.25	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)