

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

<b>Drinking-Water System Number:</b>	260039143
<b>Drinking-Water System Name:</b>	Whitchurch-Stouffville Museum Well Supply
<b>Drinking-Water System Owner:</b>	Town of Whitchurch-Stouffville
<b>Drinking-Water System Category:</b>	Small Municipal Non-Residential
<b>Period being reported:</b>	January 1 <sup>st</sup> , 2004 – December 31 <sup>st</sup> , 2004

<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 [ ]</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [ ] 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; height: 100px; width: 100%;"></div>	<p><b><u>Complete for all other Categories.</u></b></p> <p>Number of Designated Facilities served:</p> <div style="border: 1px solid black; width: 100px; text-align: center; margin: 0 auto;">0</div> <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; display: inline-block;"></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>
---	---

**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

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 [ ]

**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 Whitchurch-Stouffville Museum is located in the Hamlet of Vandorf at 14732 Woodbine Avenue. This facility is owned and operated by the Town of Whitchurch-Stouffville. The Museum provides visitors a diverse range of opportunities to enjoy experiences about the area's past.

In October 2002 the Town's Public Works Department was charged with the responsibility of the operation and the maintenance of the property's water system. The Ministry of the Environment (M.O.E.) in accordance with Ontario Regulation 170/03 of the Safe Drinking Water Act, 2002 has designated this system a small municipal non residential type servicing a public facility. It is not connected to any residential development and the system has a flow rate of less than 2.9 litres per second.

The groundwater supply to this building consists of a 150 mm diameter casing approximately 85 metres deep, a submersible pump and a pressure tank. The water is pumped from the well through a poly vinyl chloride pipe by means of the submersible pump which has a recommended pumping rate of approximately 1.1 litres per second to a pressure tank located in a utility room situated at the rear of the property. The system was installed in 1990.

In October 2003 a disinfection system was added to the water system. An Ultra Violet unit has been installed downstream of the pressure vessel to provide disinfection of the water. In addition sodium hypochlorite (NaOCl) is dosed into the system upstream of the pressure tank to create a free chlorine residual in the distribution water.

The distribution system supplies water to a separate public washroom facility and three (3) museum buildings, these being the Bogartown Schoolhouse, the Vandorf School Building and the Brown House.

Public Works Department staff, certified by the M. O.E., inspect the system on a regular basis and routinely collect water samples which are then sent to the York-Durham Regional Laboratory, an M.O.E. accredited facility, where microbiological, organic and inorganic tests are performed to ensure adequate water quality.

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

Sodium Hypochlorite (NaOCl)

**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**

--

**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

**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	11	0 – 0	0 – 0		
Treated					
Distribution	74	0 – 0	0 – 0	64	0 – 16,000

**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	0	
Chlorine	277	0.05 – 1.67
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	Mar 29/04	<0.003	mg/l	
Arsenic	Mar 29/04	<0.0007	mg/l	
Barium				
Boron				
Cadmium	Mar 29/04	<0.0001	mg/l	
Chromium	Mar 29/04	<0.0003	mg/l	
Lead	Mar 29/04	<0.0007	mg/l	
Mercury				
Selenium	Mar 29/04	<0.002	mg/l	
Sodium	Mar 29/04	18.9	mg/l	
Uranium				
Fluoride	Nov 15/04	0.27	mg/l	
Nitrite	Nov 15/04	<0.05	mg/l	
Nitrate	Nov 15/04	<0.03	mg/l	

**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	Mar 29/04	<0.1	mg/l	
Benzo(a)pyrene				
Bromoxynil				
Carbaryl				
Carbofuran				
Carbon Tetrachloride	Mar 29/04	<0.2	mg/l	
Chlordane (Total)				
Chlorpyrifos				
Cyanazine				
Diazinon				
Dicamba				
1,2-Dichlorobenzene	Mar 29/04	<0.1	mg/l	
1,4-Dichlorobenzene	Mar 29/04	<0.1	mg/l	
Dichlorodiphenyltrichloroethane (DDT) + metabolites				
1,2-Dichloroethane	Mar 29/04	<0.1	mg/l	

1,1-Dichloroethylene (vinylidene chloride)	Mar 29/04	<0.3	mg/l	
Dichloromethane	Mar 29/04	<0.5	mg/l	
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	Mar 29/04	<0.1	mg/l	
Paraquat				
Parathion				
Pentachlorophenol				
Phorate				
Picloram				
Polychlorinated Biphenyls(PCB)				
Prometryne				
Simazine				
THM (NOTE: show latest annual average)				
Temephos				
Terbufos				
Tetrachloroethylene	Mar 29/04	<0.3	mg/l	
2,3,4,6-Tetrachlorophenol				
Triallate				
Trichloroethylene	Mar 29/04	<0.8	mg/l	
2,4,6-Trichlorophenol				
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)				
Trifluralin				
Vinyl Chloride	Mar 29/04	<0.2	mg/l	

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)