

Optional Annual Report Template

Drinking-Water System Number:	260005346
Drinking-Water System Name:	Fanshawe Conservation Area Day Use
Drinking-Water System Owner:	Upper Thames River Conservation Authority
Drinking-Water System Category:	Small Non-municipal non-residential
Period being reported:	April 1, 2007 – March 31, 2008

<p><i>Complete if your Category is Large Municipal Residential or Small Municipal Residential</i></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><i>Complete for all other Categories.</i></p> <p>Number of Designated Facilities served:</p> <div style="border: 1px solid black; padding: 2px; display: inline-block;">One</div> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [x] No []</p> <p>Number of Interested Authorities you report to:</p> <div style="border: 1px solid black; padding: 2px; display: inline-block;">n/a</div> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No [] not applicable [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
n/a	

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 [x]

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

Water for the drinking water system is supplied by a drilled well located at the north end of the day use area alongside Fanshawe Golf Course which enters the pump house. This well is referred to by staff as F3. A submersible pump supplies raw water from the well which is then injected with sodium hypochlorite as part of the primary disinfection process. Secondary disinfection is also provided through maintaining a free chlorine residual within the distribution system. A contact chamber located downstream of the injection point ensures adequate chlorine contact is achieved prior to the first user of the system. From the contact chamber, water re-enters the pump house. Further treatment as part of the required primary disinfection process is achieved through the use of ultraviolet (UV) disinfection. The UV unit is located downstream of prefiltration units (5 micron), which are required to provide the necessary inactivation of giardia cysts and cryptosporidium cysts based on the source water quality. The drinking water system supplies water to the YMCA Children's Safety Village, Watson Porter Pavilion and day use washroom facilities.

All critical functions of the disinfection treatment system are monitored for faults. The pump house is equipped with an on-line chlorine analyzer to monitor the free chlorine residual. In addition, the UV disinfection system includes a fail-safe solenoid valve mounted immediately upstream of the unit which is set to close in the event of a UV alarm or a loss of power. Alarming is also present on the UV system, as is automatic shutoff of the pump in the event of primary disinfection failure.

Please note that effective April 25, 2008 this system was reclassified and approved by the MOE as a Small Non Municipal Non Residential system that does not serve a Designated Facility. F3 is now regulated under O.Reg 252/05.

List all water treatment chemicals used over this reporting period

Sodium hypochlorite, Ultraviolet Light

Were any significant expenses incurred to? *Not applicable [x]*

- 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
May 31/07	Elevated chlorine levels	8.80	mg/l	-lowered frequency and flushed the system. Posted signs do not drink and bagged all water taps. Continued flushing until chlorine reading was within parameter limits at all points. Informed MHU and was given permission to remove signs and bags from taps.	June 1/07

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	26	0	0	Not required	n/a
Treated	26	0	0	Not required	n/a
Distribution	52	0	0	52	<10 – 20

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	366	.08 - .97
Chlorine	763	0.26 – 3.68
Fluoride (If the DWS provides fluoridation)	n/a	n/a

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. *Not applicable [x]*

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
Well F3

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	May 25 -06	Not Detected	ug/L	No
Arsenic	May 25 -06	Not Detected	ug/L	No
Barium	May 25 -06	120	ug/L	No
Boron	May 25 -06	74	ug/L	No
Cadmium	May 25 -06	Not Detected	ug/L	No
Chromium	May 25 -06	Not Detected	ug/L	No
Lead	Sept 7 -07	Not Detected	mg/L	No
Mercury	May 25 -06	Not Detected	mg/L	No
Selenium	May 25 -06	Not Detected	ug/L	No
Sodium	Sept 7 -06	20.445	mg/L	No
Uranium	May 25 -06	Not Detected	ug/L	No
Fluoride	Sept 7 -07	0.7	ug/L	No
Nitrite	June 4 -07	Not Detected	mg/L	No
	Sept 7 -07	Not Detected		
	Dec 3 -07	Not Detected		
	Mar 10-08	Not Detected		
Nitrate	June 4 -07	Not Detected	mg/L	No
	Sept 7 -07	Not Detected		
	Dec 3 -07	Not Detected		
	Mar 10 -08	Not Detected		

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	May 25 -06	Not Detected	ug/L	No
Aldicarb	May 25 -06	Not Detected	ug/L	No
Aldrin + Dieldrin	May 25 -06	Not Detected	ug/L	No
Atrazine + N-dealkylated metabolites	May 25 -06	Not Detected	ug/L	No
Azinphos-methyl	May 25 -06	Not Detected	ug/L	No
Bendiocarb	May 25 -06	Not Detected	ug/L	No
Benzene	May 25 -06	Not Detected	ug/L	No
Benzo(a)pyrene	May 25 -06	Not Detected	ug/L	No
Bromoxynil	May 25 -06	Not Detected	ug/L	No
Carbaryl	May 25 -06	Not Detected	ug/L	No
Carbofuran	May 25 -06	Not Detected	ug/L	No
Carbon Tetrachloride	May 25 -06	Not Detected	ug/L	No
Chlordane (Total)	May 25 -06	Not Detected	ug/L	No

Chlorpyrifos	May 25 -06	Not Detected	ug/L	No
Cyanazine	May 25 -06	Not Detected	ug/L	No
Diazinon	May 25 -06	Not Detected	ug/L	No
Dicamba	May 25 -06	Not Detected	ug/L	No
1,2-Dichlorobenzene	May 25 -06	Not Detected	ug/L	No
1,4-Dichlorobenzene	May 25 -06	Not Detected	ug/L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	May 25 -06	Not Detected	ug/L	No
1,2-Dichloroethane	May 25 -06	Not Detected	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	May 25 -06	Not Detected	ug/L	No
Dichloromethane	May 25 -06	Not Detected	ug/L	No
2-4 Dichlorophenol	May 25 -06	Not Detected	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	May 25 -06	Not Detected	ug/L	No
Diclofop-methyl	May 25 -06	Not Detected	ug/L	No
Dimethoate	May 25 -06	Not Detected	ug/L	No
Dinoseb	May 25 -06	Not Detected	ug/L	No
Diquat	May 25 -06	Not Detected	ug/L	No
Diuron	May 25 -06	Not Detected	ug/L	No
Glyphosate	May 25 -06	Not Detected	ug/L	No
Heptachlor + Heptachlor Epoxide	May 25 -06	Not Detected	ug/L	No
Lindane (Total)	May 25 -06	Not Detected	ug/L	No
Malathion	May 25 -06	Not Detected	ug/L	No
Methoxychlor	May 25 -06	Not Detected	ug/L	No
Metolachlor	May 25 -06	Not Detected	ug/L	No
Metribuzin	May 25 -06	Not Detected	ug/L	No
Monochlorobenzene	May 25 -06	Not Detected	ug/L	No
Paraquat	May 25 -06	Not Detected	ug/L	No
Parathion	May 25 -06	Not Detected	ug/L	No
Pentachlorophenol	May 25 -06	Not Detected	ug/L	No
Phorate	May 25 -06	Not Detected	ug/L	No
Picloram	May 25 -06	Not Detected	ug/L	No
Polychlorinated Biphenyls(PCB)	May 25 -06	Not Detected	ug/L	No
Prometryne	May 25 -06	Not Detected	ug/L	No
Simazine	May 25 -06	Not Detected	ug/L	No
THM (NOTE: show latest annual average)	Feb 27 -06 May 25 -06 Sept 7 -06 Dec 4 06	5.55	ug/L	No
Temephos	May 25 -06	Not Detected	ug/L	No
Terbufos	May 25 -06	Not Detected	ug/L	No
Tetrachloroethylene	May 25 -06	Not Detected	ug/L	No
2,3,4,6-Tetrachlorophenol	May 25 -06	Not Detected	ug/L	No
Triallate	May 25 -06	Not Detected	ug/L	No
Trichloroethylene	May 25 -06	Not Detected	ug/L	No
2,4,6-Trichlorophenol	May 25 -06	Not Detected	ug/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	May 25 -06	Not Detected	ug/L	No
Trifluralin	May 25 -06	Not Detected	ug/L	No
Vinyl Chloride	May 25 -06	Not Detected	ug/L	No

List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards. *not applicable*

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)