OPTIONAL ANNUAL REPORT TEMPLATE

Drinking-Water System Number:
Drinking-Water System Name:
Drinking-Water System Owner:
Drinking-Water System Category:
Drinking-Water System Owner:
Upper Thames River Conservation Authority
Non-Municipal Year Round Residential
January 1, 2024 – December 31, 2024

Complete if your Category is Large Municipal Residential or Small Municipal Residential	Complete for all other Categories.
Does your Drinking-Water System serve more than 10,000 people? Yes [] No [] Is your annual report available to the public	Number of Designated Facilities served: none Did you provide a copy of your annual
at no charge on a web site on the Internet? Yes [] No [] Location where Summary Report required	report to all Designated Facilities you serve? Yes [] No []
under O. Reg. 170/03 Schedule 22 will be available for inspection.	Number of Interested Authorities you report to: none
	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	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 [x]

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	lic access/notice via the web
	lic access/notice via Government Office
	lic access/notice via a newspaper
	lic access/notice via Public Request
	lic access/notice via a Public Library
[] Pub	lic access/notice via other method
Dosarih	o your Drinking Water System
	e your Drinking-Water System
	the drinking water system is supplied by two drilled wells located west of the pump house. These wells are y referred to by staff as wells F5. Submersible well pumps draw water from the wells which enter the pump
	separate discharge pipes. Primary disinfection for each well source is achieved through the use of separate
	t (UV) disinfection units, one on each discharge line. Each UV unit is located downstream of separate
	on units (5 micron), which are used to provide necessary inactivation of viruses.
	am of the UV treatment, flow from each well enters a common header where the water is injected with pochlorite to provide necessary secondary disinfection. Water then enters an in-ground storage reservoir
	subsequently drawn via two distribution pumps that supply water to the Fanshawe Cottage Complex.
All critica	I functions of the disinfection treatment system are monitored for faults. The pump house is equipped with
	chlorine analyzer to monitor the free chlorine residual leaving the pump house. In the event that the
	hould drop below the low alarm level, a control relay will stop the distribution pumps to prevent the water ring the distribution system. In addition, the UV disinfection systems include fail-safe solenoid valves
	mmediately upstream of each unit which are set to close in the event of a UV alarm or loss of power.
List all	water treatment chemicals used over this reporting period
	water treatment chemicals used over this reporting period m Hypochlorite and Ultraviolet Light
Sodiu Were a	m Hypochlorite and Ultraviolet Light ny significant expenses incurred to?
Sodiu Were a	ny significant expenses incurred to? Install required equipment
Sodiu Were a	m Hypochlorite and Ultraviolet Light ny significant expenses incurred to?
Sodiu Were a	ny significant expenses incurred to? Install required equipment
Sodiu Were a	ny significant expenses incurred to? Install required equipment Repair required equipment

Please provide a brief description and a breakdown of monetary expenses incurred Normal operation, maintenance and sampling requirement expenses.

July 29, 2024 – Hallet UV replacement (2 units) = \$16, 486.70. September 17, 2024 – distribution valves and pump replacement = \$41, 150.97 November 20, 2024 – pumphouse electrical upgrade (controller panel, manual transfer switch, electrical panel) = \$17, 552.53

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	Parameter	Result	Unit of	Corrective Action	Corrective
Date			Measure		Action Date
Jan 13/24	Power outage	Water system down	n/a	-resample/test once power restored - flushed system	Jan 13 & 14, 2024
June 18/24	Total Colifom/E Coli	NDOGN	count/100mL	-Resample/test -disinfection increased -flushed system -advise users to boil water	June 18 & 19, 2024

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	48	Min 0. – Max 0	Min 0 – Max 1	0	0
Treated	28	Min 0. – Max 0	Min 0 – Max 0	0	0
Distribution	56	Min 0. – Max NDOGN	Min 0 – Max NDOGN	56	Min <10 - Max 1150

NDGON – No data: Overgrown with Non Target Bacteria

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 #)	Unit of Measure	NOTE: For continuous
Turbidity	205	Min 0.11 – Max 0.95	ntu	monitors use 8760
Chlorine	339	Min 0.57 – Max 2.98	ppm	as the number of
				samples.

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

Fluoride (If the	n/a	n/a	n/a
DWS provides			
fluoridation)			

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
C of A	Alkalinity	March 13, 2024 Sept 16, 2024		mg/L
C of A	ph	March 13, 2024 Sept 16, 2024	8.29 7.55	pH pH

Haloacetic Acids in Water (HAA)

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
HAA (Note: Show latest annual average)	Mar 13, 2024 June 13, 2024 Sept 16, 2024 Dec 13, 2024	ND	Ug/L	No

Summary of Inorganic parameters tested during this reporting period or the most recent sample results

Sample Date	Result Value	Unit of Measure	Exceedance
Oct 31 -19	ND	ug/L	No
Oct 31 -19	ND	ug/L	No
Oct 31 -19	67	ug/L	No
Oct 31 -19	17	ug/L	No
Oct 31 -19	ND	ug/L	No
Oct 31 -19	ND	ug/L	No
n/a	ND	ug/L	No
Oct 31 -19	ND	ug/L	No
Oct 31 -19	ND	ug/L	No
Oct 31 -19	13000	ug/L	No
Oct 31 -19	0.75	ug/L	No
Sept 14 -22	0.21	ug/L	No
March 13, 2024	ND	mg/L	No
June 13, 2024	ND	mg/L	No
Sept 16, 2024	ND	mg/L	No
Dec 13, 2024	ND	mg/L	No
March 13, 2024	1.21	mg/L	No
June 13, 2024	1.34	mg/L	No
Sept 16, 2024	1.24	mg/L	No
Dec 13, 2024	1.23	mg/L	No
	Oct 31 -19 Arch 13, 2024 June 13, 2024 Sept 16, 2024 Dec 13, 2024 June 13, 2024 Sept 16, 2024 June 13, 2024 Sept 16, 2024 June 13, 2024 Sept 16, 2024	Oct 31 -19 ND Oct 31 -19 ND Oct 31 -19 67 Oct 31 -19 17 Oct 31 -19 ND Oc	Oct 31 -19 ND ug/L Oct 31 -19 ND ug/L Oct 31 -19 67 ug/L Oct 31 -19 17 ug/L Oct 31 -19 ND ug/L Oct 31 -19 Ug/L Oct 31 -19 ND ug

*only for drinking water systems testing under Schedule 15.2; this includes large municipal non-residential systems, small municipal non-residential systems, non-municipal seasonal residential systems, large non-municipal non-residential systems, and small non-municipal non-residential systems

Summary of lead testing under Schedule 15.1 during this reporting period

(applicable to the following drinking water systems; large municipal residential systems, small municipal residential systems, and non-municipal year-round residential systems)

Not applicable during this reporting period.

Location Type	Number of Samples	Range of Lead Results (min#) – (max #)	Unit of Measure	Number of Exceedances
Plumbing	n/a	n/a	ug/L	n/a
Distribution	n/a	n/a	ug/L	n/a

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	Oct 31 -19	ND	ug/L	No
Atrazine + N-dealkylated metobolites	Oct 31 -19	ND	ug/L	No
Azinphos-methyl	Oct 31 -19	ND	ug/L	No
Benzene	Oct 31 -19	ND	ug/L	No
Benzo(a)pyrene	Oct 31 -19	ND	ug/L	No
Bromoxynil	Oct 31 -19	ND	ug/L	No
Carbaryl	Oct 31 -19	ND	ug/L	No
Carbofuran	Oct 31 -19	ND	ug/L	No
Carbon Tetrachloride	Oct 31 -19	ND	ug/L	No
Chlorpyrifos	Oct 31 -19	ND	ug/L	No
Diazinon	Oct 31 -19	ND	ug/L	No
Dicamba	Oct 31 -19	ND	ug/L	No
1,2-Dichlorobenzene	Oct 31 -19	ND	ug/L	No
1,4-Dichlorobenzene	Oct 31 -19	ND	ug/L	No
1,2-Dichloroethane	Oct 31 -19	ND	ug/L	No
1,1-Dichloroethylene	Oct 31 -19	ND	ug/L	No
(vinylidene chloride)				
Dichloromethane	Oct 31 -19	ND	ug/L	No
2-4 Dichlorophenol	Oct 31 -19	ND	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Oct 31 -19	ND	ug/L	No
Diclofop-methyl	Oct 31 -19	ND	ug/L	No
Dimethoate	Oct 31 -19	ND	ug/L	No
Diquat	Oct 31 -19	ND	ug/L	No
Diuron	Oct 31 -19	ND	ug/L	No
Glyphosate	Oct 31 -19	ND	ug/L	No
Malathion	Oct 31 -19	ND	ug/L	No
Methoxychlor	Oct 31 -19	ND	ug/L	No
Metolachlor	Oct 31 -19	ND	ug/L	No
Metribuzin	Oct 31 -19	ND	ug/L	No
Monochlorobenzene	Oct 31 -19	ND	ug/L	No
Paraquat	Oct 31 -19	ND	ug/L	No

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Pentachlorophenol	Oct 31 -19	ND	ug/L	No
Phorate	Oct 31 -19	ND	ug/L	No
Picloram	Oct 31 -19	ND	ug/L	No
Polychlorinated Biphenyls(PCB)	Oct 31 -19	ND	ug/L	No
Prometryne	Oct 31 -19	ND	ug/L	No
Simazine	Oct 31 -19	ND	ug/L	No
THM (NOTE: show latest annual average)	March 13, 2024 June 13, 2024 Sept 16, 2024 Dec 13, 2024	6.395	ug/L	No
Terbufos	Oct 31 -19	ND	ug/L	No
Tetrachloroethylene	Oct 31 -19	ND	ug/L	No
2,3,4,6-Tetrachlorophenol	Oct 31 -19	ND	ug/L	No
Triallate	Oct 31 -19	ND	ug/L	No
Trichloroethylene	Oct 31 -19	ND	ug/L	No
2,4,6-Trichlorophenol	Oct 31 -19	ND	ug/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-	Oct 31 -19	ND	ug/L	No
T) MCPA				
Trifluralin	Oct 31 -19	ND	ug/L	No
Vinyl Chloride	Oct 31 -19	ND	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.

Parameter	Result Value	Unit of Measure	Date of Sample	
	n/a	n/a	n/a	
	n/a	n/a	n/a	