



OPTIONAL ANNUAL REPORT TEMPLATE

Drinking-Water System Number:	260080106
Drinking-Water System Name:	Strathroy-Caradoc Distribution System
Drinking-Water System Owner:	Municipality of Strathroy-Caradoc
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2016 to December 31, 2016

<p><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes [<input checked="" type="checkbox"/>] No [<input 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 [<input type="checkbox"/>]</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; text-align: center;"> <p>Municipality of Strathroy-Caradoc 52 Frank Street Strathroy, Ontario N7G 2R4</p> </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <input style="width: 100px; height: 20px;" type="text"/></p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [<input type="checkbox"/>] No [<input type="checkbox"/>]</p> <p>Number of Interested Authorities you report to: <input style="width: 100px; height: 20px;" type="text"/></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [<input type="checkbox"/>] No [<input type="checkbox"/>]</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
Adelaide-Metcalf Small Municipal Non-Residential System	744003083

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 Strathroy-Caradoc Distribution System is supplied water from the Lake Huron Primary System. There are two connections to the Lake Huron Primary System.

Strathroy is connected at the Lake Huron Primary Water System Monitoring Station #2 located at the Second Street Reservoir. The Strathroy portion of the distribution system consists of the Head Street Water Tower (capacity 1,900 m3), the Second Street Reservoir (capacity 11,250 m3)/Pumping Station with rechlorination and 99.4 km of water mains serving the local street network.

The reservoir/pump station has the following rated pump capacities:

Pump #1	80 L/s
Pump #2	139 L/s
Pump #3	212 L/s
Pump #4	39 L/s
Pump #5	39 L/s

The Strathroy portion of the distribution system services a population of approximately 13,500 in the Municipality of Strathroy-Caradoc and Township of Adelaide-Metcalf.

Mount Brydges is connected at the Lake Huron Primary Water System Monitoring Station #2 located at the intersection of Springwell Road and Falconbridge Drive. The Mount Brydges portion of the distribution system consists of the Oriole Drive Monitoring Station #3 (Rechlorination), Railroad Street Water Tower (capacity 720 m3), Glendon Drive Reservoir (capacity 1639m3)/Pumping Station and 39.85 km of water mains serving the local street network.

The reservoir/pump station has the following rated pump capacities:

Pump #1	41 L/s
Pump #2	60 L/s
Pump #3	58.13 L/s
Pump #4	58.13 L/s



The Mount Brydges portion of the distribution system services a population of approximately 2,770 people.

Water Quality information pertaining to the Lake Huron Primary Water System may be obtained from the following web site and viewing the report tab.

www.watersupply.london.ca

List all water treatment chemicals used over this reporting period

Sodium Hypochlorite

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

The following capital works were performed on the Strathroy-Caradoc Distribution System:

1. Generator Upgrades completed to comply with TSSA regulations for Mount Brydges (\$2,650.00)
2. Strathroy-Mount Brydges Water Tower and Reservoir Inspection (\$7,400.00)
3. 155 Water Meters were replaced in Strathroy.

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
Jun 28/16	E. Coli	62	#/100ml	Resample	July 4, 2016



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	N/A				
Treated	N/A				
Distribution (Strathroy)	318	0-62	0-0	318	0->2000
Distribution (Mount Brydges)	156	0-0	0-0	156	0->2000
Distribution (Adelaide-Metcalf)	52	0-0	0-0	52	0->2000

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	N/A	
Chlorine (Strathroy)	8760	0.1-2.86
Chlorine (Mt. Brydges)	8760	0-1.73
Fluoride (If the DWS provides fluoridation)	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.

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				
Mercury				
Selenium				
Sodium				
Uranium				
Fluoride				
Nitrite				
Nitrate				

*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)

Location Type	Number of Samples	Range of Lead Results (min#) – (max #)	Unit of Measure	Number of Exceedances
Plumbing	22	0.07-5.81	ug/L	0
Distribution	4	0.04-0.44	ug/L	0

Note: Above Sampling relates to Winter and Summer Mount Brydges 2014 sample rounds.

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 (STATHROY) (NOTE: show latest annual average)	Feb 9/16	21	ug/L	No
	May 10/16	33	ug/L	No
	Aug 9/16	35	ug/L	No
	Nov 8/16	24	ug/L	No
THM (MOUNT BRYDGES) (NOTE: show latest annual average)	Jan 12/16	28	ug/L	No
	Apr 12/16	32	ug/L	No
	Jul 12/16	43	ug/L	No
	Oct 11/16	34	ug/L	No
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