



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

ANNUAL REPORT – 2017

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 – December 31, 2017

<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 [X] No []</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [X] No []</p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <p>Municipality of Strathroy-Caradoc 52 Frank Street Strathroy, Ontario N7G 2R4</p>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: 0</p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve?</p> <p>Not Applicable</p> <p>Number of Interested Authorities you report to:</p> <p>Not Applicable</p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?</p> <p>Not Applicable</p>
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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 [X] 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-Water Department 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 re-chlorination and 99.4 km of water mains serving the local street network.

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

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

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



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Please provide a brief description and a breakdown of monetary expenses incurred

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

Water main replacements and water meter installations	\$ 1,110,000.00
Strathroy Water Tower Upgrades	\$ <u>15,000.00</u>

TOTAL	\$ 1,125,000.00
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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
No reportable incident identified					

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)
Distribution (Strathroy)	312	0-0	0-0	312	0->2000
Distribution (Mount Brydges)	156	0-0	0-0	156	0->2000
Distribution (Adelaide-Metcalf)	52	0-0	0-0	52	0-100

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	N/A
Chlorine: Strathroy-Mt. Brydges	8760 (at each location)	0.2 - 3.51

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
Not Applicable				

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

Not Applicable

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	Date Sampled	Number of Samples	pH Range	Range of Alkalinity (min – max) mg/L	Range of Lead Results (min – max) ug/L	Number of Exceedances
Distribution	March 21, 2017	4	7.42-7.71	77 - 86	0.03 - 0.69	0
Distribution	October 10, 2017	4	7.72-8.08	76 - 83	0.06 - 0.14	0

Summary of Organic parameters sampled during this reporting period or the most recent sample results

Distribution Parameter	Annual Running Average	Result Value	Unit of Measure	Exceedance
THM's STATHROY (latest annual running average)	Jan –Dec. 2017	31.25	ug/L	No
THM's Mt. Brydges (latest annual running average)	Jan –Dec. 2017	36.25	ug/L	No



Distribution Water Parameter	Sample Date	Sample Result	MAC	Exceedance
Total Haloacetic Acids: (ug/L): Strathroy	Feb. 14, 2017	< 5.3	N/A	Not applicable
Total Haloacetic Acids: (ug/L): Strathroy	May 09, 2017	7.0	N/A	Not applicable
Total Haloacetic Acids: (ug/L): Strathroy	Aug. 08, 2017	16.6	N/A	Not applicable
Total Haloacetic Acids: (ug/L): Strathroy	Nov. 14, 2017	6.7	N/A	Not applicable
Total Haloacetic Acids: (ug/L): Mt. Brydges	Feb. 14, 2017	7.7		
Total Haloacetic Acids: (ug/L): Mt. Brydges	Apr. 11, 2017	19.8	N/A	Not applicable
Total Haloacetic Acids: (ug/L): Mt. Brydges	Jul. 11, 2017	18.6	N/A	Not applicable
Total Haloacetic Acids: (ug/L): Mt. Brydges	Oct. 10, 2017	21.4	N/A	Not applicable

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
Not Applicable			