

## ANNUAL REPORT TEMPLATE

Drinking Water System Number:	260006568
Drinking Water System Name:	East Lambton Shores Water
Drinking Water System Owner:	Municipality of Lambton Shores
Drinking Water System Category:	Large Municipal Residential
Period being reported:	Jan-Dec 2024

<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 [X]</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> <div style="border: 1px solid black; padding: 5px;"> <p>The Municipality of Lambton Shores Municipal Office 9577 Port Franks Road RR#1 Thedford Ontario N0M 2N0</p> </div>	<p><b><u>Complete for all other Categories</u></b></p> <p>Number of Designated Facilities served: N/A</p> <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: N/A</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>
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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 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 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 Water System serving East Lambton Shores receives treated water from the Lake Huron Water Supply System. Consisting of a control chamber at the vicinity of Pinetree Drive and Lakeshore Road, controlled by the level of the elevated storage tank having an available storage volume of 3,725 m<sup>3</sup> equipped with a chlorine analyzer to continuously monitor chlorine residual entering the system, two metering pumps with variable flow control using sodium hypochlorite solution together with system controlling all levels and functions through the SCADA system located on site.

The Municipality of Lambton Shores has undertaken upgrades to the entire water system to allow the people of the Municipality to have safe drinking water. The upgrades have included new water mains to Thedford and Arkona. These water mains supply water from the Northville Elevated Tank. The Northville Elevated Tank is supplied from the Lake Huron Water Plant which flows through the B-Line valve.

A Booster Station was constructed to push the water uphill to Arkona. Thedford is gravity feed from the trunk water main at the Booster Station.

A SCADA network has been established between the above noted sites using the Municipalities wireless communications network to allow the passing of information between PLCs.

**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

Hydro vac services, watermain repair parts, curbstop repairs, hydrant repairs, backflow inspections, watermain replacement.

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
Nov 18	Pressure	Low	KPA	Opened valve, flushed, bacti samples	Nov 18

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 Results (min #)-(max #)	Range of Total Coliform Results (min #)-(max #)	Number of HPC Samples	Range of HPC Results (min #)-(max #)
Raw						
Treated						
Distribution		273	0-0	0-0	85	<10 - 120

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
Turbidity	N/A		
Chlorine	8760	0.52 – 2.36	mg/L
Fluoride (If the DWS provides fluoridation)	N/A		

**NOTE: For continuous monitors use 8760 as the number of samples**

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	Exempt			
Distribution	Exempt			

## 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				
Atrazine + N-dealkylated metabolites				
Azinphos-methyl				
Benzene				
Benzo(a)pyrene				
Bromoxynil				
Carbaryl				
Carbofuran				
Carbon Tetrachloride				
Chlorpyrifos				

Diazinon				
Dicamba				
1,2-Dichlorobenzene				
1,4-Dichlorobenzene				
1,2-Dichloroethane				
1,1-Dichloroethylene (vinylidene chloride)				
Dichloromethane				
2,4 Dichlorophenol				
2,4-Dichlorophenoxy acetic acid (2,4-D)				
Diclofop-methyl				
Dimethoate				
Diquat				
Diuron				
Glyphosate				
HAA5 (Note: show latest running annual average)	2024	18.9	ug/L	No
Lindane (Total)				
Malathion				
Metolachlor				
Metribuzin				
Monochlorobenzene				
Paraquat				
Pentachlorophenol				
Phorate				
Picloram				
Polychlorinated Biphenyls(PCB)				
Prometryne				
Simazine				
Terbufos				
Tetrachloroethylene (perchloroethylene)				
2,3,4,6-Tetrachlorophenol				
THMs (Note: show latest running annual average)	2024	46.8	ug/L	No
Triallate				
Trichloroethylene				
2,4,6-Trichlorophenol				
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
THM	53	ug/L	July 2
THM	54	ug/L	Oct 1

