



Aylmer Distribution System Annual Report - 2023

Drinking-Water System Number:	260002136
Drinking-Water System Name:	Aylmer Distribution System
Drinking-Water System Owner:	The Corporation of the Town of Aylmer
Drinking-Water System Category:	Large Municipal
Period being reported:	January 1, 2023 to December 31, 2023

<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 [] 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 Aylmer Distribution System Annual Report required under O. Reg. 170/03 Schedule 11 will be available for viewing inspection.</p> <div style="border: 1px solid black; padding: 5px;"> <p>Town of Aylmer 46 Talbot St W Aylmer, Ontario N5H 1J7</p> </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <input type="text"/></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: <input 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 [] 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 of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
Malahide Distribution System -Dingle Street -Talbot Street East	#260004774



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
- 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

Treated water is supplied to the Town of Aylmer from the Elgin Water Treatment Plant via the Elgin Area Primary Water Supply System, the Elgin- Middlesex Reservoir, and the Aylmer Secondary System. When required, two pumps, located at the Elgin-Middlesex Pumping Station in St. Thomas, pump water to Aylmer through a 450 mm dia. secondary transmission main (the Aylmer Secondary System). The main leaves the Pumping Station and proceeds along the north side of Hwy #3, through the Municipality of Central Elgin and Malahide Township until it connects to the Aylmer Distribution System at Bodkin Ave. Depending on system pressure and demand, the Secondary System may be used to directly feed the Distribution System or may be used to fill a 4,300 m3 standpipe located at 23 Myrtle Street. There is a continuous chlorine monitor, a tower level indicator and pressure sensor located at the standpipe.

The Aylmer Distribution System consists of approximately 44 kilometers of water main of varying sizes (50 mm to 450mm) and types (cast iron, ductile iron, DR-18 plastic, transite). There are nine meter chambers, 222 fire hydrants and approximately 396 street valves within the system.

List all water treatment chemicals used over this reporting period

No Treatment chemicals were used as the Aylmer Distribution System receives treated water from the Aylmer Secondary System. Re-chlorination occurs at the Elgin Middlesex Pumping station before water is pumped to Aylmer. Sodium hypochlorite is used for disinfecting parts during repairs as per AWWA C651 Standard.



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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

Ongoing installation of new water tower. 2023 costs associated with new tower
\$4,613,650.37

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
April 4 2023	Lead	16.1	Micrograms/L	Resampled on April 14, 2023. Results of resample were 0.27 micrograms/L. Advisory notice to 30 residents.	April 4, 2023 April 14, 2023

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	251	0	0	107	<10 to 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 #)	Unit of Measure
Turbidity	N/A		
Chlorine (Free)	211 grab 8760 at Tower	0.70 to 1.26 0.00 to 1.67	mg/L mg/L
Fluoride (If the DWS provides fluoridation)	N/A		

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

Note: All instances of readings below 0.05 mg/L on our SCADA have been accounted for with coinciding alarm events and Residual checks.

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
N/A				

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	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA
Barium	NA	NA	NA	NA
Boron	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA
Chromium	NA	NA	NA	NA
*Lead	NA	NA	NA	NA
Mercury	NA	NA	NA	NA
Selenium	NA	NA	NA	NA



Sodium	NA	NA	NA	NA
Uranium	NA	NA	NA	NA
Fluoride	NA	NA	NA	NA
Nitrite	NA	NA	NA	NA
Nitrate	NA	NA	NA	NA

*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	0			
Distribution	17	0.08 to 16.1	ug/L	1
pH	17	7.36 to 7.57		0
Alkalinity	17	90 to 124	mg/L	0

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	NA	NA	NA	NA
Aldicarb	NA	NA	NA	NA
Aldrin + Dieldrin	NA	NA	NA	NA
Atrazine + N-dealkylated metabolites	NA	NA	NA	NA
Azinphos-methyl	NA	NA	NA	NA
Bendiocarb	NA	NA	NA	NA
Benzene	NA	NA	NA	NA
Benzo(a)pyrene	NA	NA	NA	NA
Bromoxynil	NA	NA	NA	NA
Carbaryl	NA	NA	NA	NA
Carbofuran	NA	NA	NA	Na



Carbon Tetrachloride	NA	NA	NA	NA
Chlordane (Total)	NA	NA	NA	NA
Chlorpyrifos	NA	NA	NA	NA
Cyanazine	NA	NA	NA	NA
Diazinon	NA	NA	NA	NA
Dicamba	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA
Dichlorodiphenyltrichloroethane (DDT) + metabolites	NA	NA	NA	NA
1,2-Dichloroethane	NA	NA	NA	NA
1,1-Dichloroethylene (vinylidene chloride)	NA	NA	NA	NA
Dichloromethane	NA	NA	NA	NA
2-4 Dichlorophenol	NA	NA	NA	NA
2,4-Dichlorophenoxy acetic acid (2,4-D)	NA	NA	NA	NA
Diclofop-methyl	NA	NA	NA	NA
Dimethoate	NA	NA	NA	NA
Dinoseb	NA	NA	NA	NA
Diquat	NA	NA	NA	NA
Diuron	NA	NA	NA	NA
Glyphosate	NA	NA	NA	NA
HAA (NOTE: show latest annual average)	2023	11.7	ug/L	No
Heptachlor + Heptachlor Epoxide	NA	NA	NA	NA
Lindane (Total)	NA	NA	NA	NA
Malathion	NA	NA	NA	NA
Methoxychlor	NA	NA	NA	NA
Metolachlor	NA	NA	NA	NA
Metribuzin	NA	NA	NA	NA
Monochlorobenzene	NA	NA	NA	NA
Paraquat	NA	NA	NA	NA
Parathion	NA	NA	NA	NA
Pentachlorophenol	NA	NA	NA	NA
Phorate	NA	NA	NA	NA
Picloram	NA	NA	NA	NA
Polychlorinated Biphenyls(PCB)	NA	NA	NA	NA
Prometryne	NA	NA	NA	NA
Simazine	NA	NA	NA	NA
THM (NOTE: show latest annual average)	2023	25.0	ug/L	No



Temephos	NA	NA	NA	NA
Terbufos	NA	NA	NA	NA
Tetrachloroethylene	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NA	NA	NA	NA
Triallate	NA	NA	NA	NA
Trichloroethylene	NA	NA	NA	NA
2,4,6-Trichlorophenol	NA	NA	NA	NA
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	NA	NA	NA	NA
Trifluralin	NA	NA	NA	NA
Vinyl Chloride	NA	NA	NA	NA

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
NA	NA	NA	NA
NA	NA	NA	NA