



ANNUAL REPORT

Drinking-Water System Number:	260087048
Drinking-Water System Name:	Leamington (Wheatley) Drinking Water System
Drinking-Water System Owner:	Leamington
Drinking-Water System Category:	Large Municipal Year Round Residential
Period being reported:	January 1 – December 31, 2022

Does your Drinking-Water System serve more than 10,000 people? Yes [] No [X]

Is your annual report available to the public at no charge on a web site on the Internet? Yes [X] No []

Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.

Chatham-Kent P.U.C. 325 Grand Ave. East P.O. Box 1191 Chatham, ON N7M 5L8

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	

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 Leamington (Wheatley) DWS forms part of a stand-alone water distribution system owned by the Municipality of Leamington. The other subsystem which forms part of it is the Leamington (Union) Distribution System. They are both connected to each other at several inter-connections valves which are closed at all times except in emergency situations. This distribution system does not contain storage, pumping or re-chlorination facilities. There are 181 residential and commercial service connections served by the Leamington (Wheatley) Distribution System. It therefore falls into the ‘large municipal residential’ category under O. Regulation 170/03. Treated drinking water is supplied by the Wheatley Drinking Water System which is owned and operated by the Chatham-Kent Public Utilities Commission which takes its source of raw water from Lake Erie. Pressure in the distribution system is maintained by the Wheatley tower which the Chatham-Kent PUC governs by controlling tower levels. A water supply agreement between Chatham-Kent PUC and Municipality of Leamington was renewed 2016 January 1. This agreement authorizes Chatham-Kent PUC to conduct testing and monitoring services of the Leamington (Wheatley) DS in accordance with the provisions of O. Reg. 170/03 s. 5 (4) on Leamington's behalf. Leamington's Water Services is responsible for all other aspects of the operation, including maintenance and repairs of the water distribution infrastructure.

List all water treatment chemicals used over this reporting period

None

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

No expenditures on the part of Chatham-Kent



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 & AWQI No.	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
No adverse samples during this year.					

Microbiological testing done under the Schedule 10 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	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Point of Entry (Treated)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Distribution	154	0-0	0-0	154	<10-10

Operational testing done under Schedule 7 of Regulation 170/03 during the period covered by this Annual Report. Chlorine residuals are from weekly distribution samples (4 & 3) and from microbiological distribution sample chlorine residuals under Section 7-2.(4)1.&2.

	Number of Grab Samples	Range of Results (min #)-(max #)
Turbidity	Not Applicable	
Chlorine	154	1.02-1.65
Fluoride	Not Provided	

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
None				

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

The following parameters are sampled by the donor system.	Sample Date	Result Value	MAC Limit	Unit of Measure	Exceedance
Antimony	August 15	<0.50	6	ug/L	No
Arsenic	August 15	<1.0	10	ug/L	No
Barium	August 15	19	1000	ug/L	No
Boron	August 15	17	5000	ug/L	No
Cadmium	August 15	<0.090	5	ug/L	No
Chromium	August 15	<5.0	50	ug/L	No
*Lead	See Schedule 15.1 Summary				
Mercury	August 15	<0.00010	0.001	mg/L	No
Selenium	August 15	<2.0	50	ug/L	No
Sodium	August 15	8600	20000	ug/L	No
Uranium	August 15	<0.10	20	ug/L	No
Fluoride	August 15	10	1.5	mg/L	No
Nitrite	August 15	<0.010	1	mg/L	No
Nitrate	August 15	<0.10	10	mg/L	No
Nitrite + Nitrate	August 15	<0.10	-	mg/L	No

Summary of lead testing under Schedule 15.1 during this reporting period

Location Type	Number of Samples	Range of Lead Results ug/L (min#) – (max #)	MAC Limit ug/L	Number of Exceedances / Adverses
Residential	0			
Non-Residential	0			
Distribution	2	<0.50 – <0.50	10	0

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

The following parameters are sampled by the donor system.	Sample Date	Result Value	MAC Limits	Unit of Measure	Exceedance
Alachlor	August 15	<0.50	5	ug/L	No
Atrazine + N-dealkylated metabolites	August 15	<1.0	5	ug/L	No
Azinphos-methyl	August 15	<2.0	20	ug/L	No
Benzene	August 15	<0.10	1	ug/L	No
Benzo(a)pyrene	August 15	<0.0050	0.01	ug/L	No
Bromoxynil	August 15	<0.50	5	ug/L	No
Carbaryl	August 15	<5.0	90	ug/L	No
Carbofuran	August 15	<5.0	90	ug/L	No
Carbon Tetrachloride	August 15	<0.10	2	ug/L	No
Chlorpyrifos (Dursban)	August 15	<1.0	90	ug/L	No

Diazinon	August 15	<1.0	20	ug/L	No
Dicamba	August 15	<1.0	120	ug/L	No
1,2-Dichlorobenzene	August 15	<0.20	200	ug/L	No
1,4-Dichlorobenzene	August 15	<0.20	5	ug/L	No
1,2-Dichloroethane	August 15	<0.20	5	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	August 15	<0.10	14	ug/L	No
Dichloromethane	August 15	<0.50	50	ug/L	No
2-4 Dichlorophenol	August 15	<0.25	900	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	August 15	<1.0	100	ug/L	No
Diclofop-methyl	August 15	<0.90	9	ug/L	No
Dimethoate	August 15	<2.5	20	ug/L	No
Diquat	August 15	<7.0	70	ug/L	No
Diuron	August 15	<10	150	ug/L	No
Ethylbenzene	August 15	<0.10	140	ug/L	No
Glyphosate	August 15	<10	280	ug/L	No
Haloacetic Acids (HAA)	Feb 14 May 2 Aug 15 Nov 14	17 23 28 18	80	ug/L	No
Running Annual Average:		21.5			
Malathion	August 15	<5.0	190	ug/L	No
2 Methyl-4-chlorophenoxyacetic acid (MCPA)	August 15	<10	100	ug/L	No
Metolachlor	August 15	<0.50	190	ug/L	No
Metribuzin (Sencor)	August 15	<5.0	80	ug/L	No
Monochlorobenzene	August 15	<0.10	80	ug/L	No
Paraquat	August 16	<1.0	10	ug/L	No
Pentachlorophenol	August 15	<0.50	60	ug/L	No
Phorate	August 15	<0.50	2	ug/L	No
Picloram	August 15	<5.0	190	ug/L	No
Polychlorinated Biphenyls(PCB)	August 15	<0.05	3	ug/L	No
Prometryne	August 15	<0.25	1	ug/L	No
Simazine	August 15	<1.0	10	ug/L	No
Terbufos	August 15	<0.50	1	ug/L	No
Tetrachloroethylene	August 15	<0.10	10	ug/L	No
2,3,4,6-Tetrachlorophenol	August 15	<0.50	100	ug/L	No
Trihalomethanes (THM) (MINT)	Feb 14 May 2 Aug 15 Nov 14	24.1 33.7 53.1 37.0	100	ug/L	No
Running Annual Average:		36.9			
Toluene	August 15	<0.20	60	ug/L	No
Triallate	August 15	<1.0	230	ug/L	No
Trichloroethylene	August 15	<0.10	5	ug/L	No
2,4,6-Trichlorophenol	August 15	<0.50	5	ug/L	No
Trifluralin	August 15	<1.0	45	ug/L	No
Vinyl Chloride	August 15	<0.20	1	ug/L	No
Xylenes	August 15	<0.10	90	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
None			

Summary of additional voluntary sampling and testing during this reporting period.

Parameter	Sample Date	Result: Raw – Before Treatment	Result: Point of Entry	Result: Distribution	Unit of Measure
None					