

ANNUAL REPORT

Drinking-Water System Number:	220004995
Drinking-Water System Name:	Union Water Service Area
Drinking-Water System Owner:	Municipality of Lakeshore
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 01, 2020 to December 31, 2020

<p>Does this Drinking-Water System serve more than 10,000 people? Yes [] No [X]</p> <p>Is this 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 Lakeshore Municipal Building (Town Hall) 419 Notre Dame Street Belle River, Ont. NOR 1A0</p>	<p>Number of Designated Facilities served: None</p> <p>Number of Interested Authorities this system reports to: None</p>
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Drinking-Water Systems which receive all of their drinking water from this system:

Drinking Water System Name	Drinking Water System Number
None	

How system users are told that this 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**

Description of the Drinking-Water System during this reporting period

The Lakeshore Union Distribution System includes the area of Lakeshore generally bounded by County Rd. 19, County Rd. 8, Lakeshore Road 245, Rochester Town line Road, Lakeshore Rd. 131 and Highway 401. The Union Water Supply System (UWSS) WTP in Ruthven supplies approximately 4188 residents located within the Municipality of Lakeshore. The LUWSS distribution system is comprised of approximately 148 km of watermains ranging in size from 50 to 300 millimeters in diameter.

List of all water treatment chemicals used during this reporting period

No water treatment chemicals applied by Lakeshore. All water treatment chemicals were added by upstream owners and operating authorities.

Significant expenses incurred during this reporting period to:

- Install required equipment None
- Repair required equipment None
- Replace required equipment None

A brief description and a breakdown of monetary expenses incurred during this reporting period

None

Details of 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 during this reporting period

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
None					

**** Please note that unless stated otherwise, all following values have been taken from 2020 Annual Report prepared by the Union Water System.**

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	N/A	N/A	N/A	N/A	N/A
Treated	N/A	N/A	N/A	N/A	N/A
Distribution	208	0-0	0-0	104	<10-<10

Operational testing done under Schedule 7 of Regulation 170/03 during this reporting period

	Number of Grab Samples	Range of Results (min #)-(max #)	Unit of Measure
Turbidity	N/A	N/A	N/A
Chlorine	N/A	N/A	N/A
Distribution Free Chlorine Residuals (taken by Union Operators)	368	0.41 – 1.87	Mg/L
Distribution Free Chlorine Residuals (taken by Lakeshore operators)	137	0.39 – 1.57	Mg/L

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Nitrite	October 5, 2020	<0.1	mg/L	No
Nitrate	October 5, 2020	0.1	mg/L	No
Ammonia (N) -Total	October 5, 2020	0.05	mg/L	No

Summary of lead testing under Schedule 15.1 during this reporting period

Location Type	Number of Samples	Range of Results (min#) – (max #)		MAC (ug/L)	Number of Exceedances
		Minimum	Maximum		
Distribution-Lead Results (ug/L)	18	0.06	0.63	10	None
Distribution-Alkalinity (mg/L)	18	69	89	n/a	n/a
Distribution-pH In-house	6	6.97	7.41	n/a	n/a

Summary of Organic parameters sampled during this reporting period

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM	Running Annual Average	47.25	µg/L	No
HAA	Running Annual Average	15.73	µg/L	No

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
N/A			