

**SUMMARY REPORT 2019**  
For the Town of Lakeshore Water Supply System  
Union Water Service Area

(Made under Schedule 22 of Ontario Regulation 170/03, a regulation made under the Safe Drinking Water Act, 2002)

**Explanation**

Schedule 22 of Ontario Regulation 170/03, a regulation made under the Safe Drinking Water Act, 2002 requires that a large municipal residential drinking-water system must provide to its board members a Summary Report on various aspects of the system before March 31 of the following year. The Union Water Service Area is classed as a large municipal residential drinking-water system and is therefore subject to Schedule 22.

The Summary Report must list the following:

- The requirements of the Safe Drinking Water Act, 2002 that the system failed to meet during the period covered by the Summary Report
- The requirements of the regulations made under the Safe Drinking Water Act, 2002 that the system failed to meet during the period covered by the Summary Report
- The drinking-water systems approval that the system failed to meet during the period covered by the Summary Report
- Any order that the system failed to meet during the period covered by the Summary Report, the duration of any such failure and any measures that were taken to correct such failure
- A summary of the quantities and flow rates of water supplied by the drinking-water system by monthly average and maximum daily flow rates and instantaneous peak flow rates
- A comparison of actual flow rates with rated capacity and flow rates in the systems approval
- Minutes of the Management Review Meeting held by the Operating Authority

A drinking-water system that supplies water to a municipality must provide a copy of the Summary Report to the municipality by March 31 of the year following the year covered in the Summary Report.

**Failure to meet the requirements of the Safe Drinking Water Act 2002, associated regulations, system approvals and provincial officer orders**

The table below lists the occasions on which the Union Water Service Area failed to meet the requirements of the Safe Drinking Water Act 2002, associated regulations, system approvals and provincial officer orders in 2019.

There was **no** occasion in 2019 where the Union Water Service Area was not in compliance with the requirements of the Safe Drinking Water Act 2002, associated regulations, system approvals and provincial officer orders.

**Union Water Service Area**

<b>Drinking Water Legislation</b>	<b>List the requirement(s) the system failed to meet</b>	<b>Specify the duration of the failure (i.e. date(s))</b>	<b>Describe the measures taken to correct the failure</b>	<b>Status (complete or outstanding)</b>
Safe Drinking Water Act	<b>None</b>			
Ontario Regulations	<b>None</b>			
Drinking Water Works Permit	<b>None</b>			
Provincial Officer's Order	<b>None</b>			

**Table 1: Union WSA Treated Flow Data (flow into Town of Lakeshore) in 2019**

<b>Month</b>	<b>Flow in m<sup>3</sup>/Month</b>
<b>January</b>	<b>41,678</b>
<b>February</b>	<b>38,936</b>
<b>March</b>	<b>39,432</b>
<b>April</b>	<b>34,751</b>
<b>May</b>	<b>40,599</b>
<b>June</b>	<b>50,955</b>
<b>July</b>	<b>50,021</b>
<b>August</b>	<b>52,553</b>
<b>September</b>	<b>54,830</b>
<b>October</b>	<b>48,283</b>
<b>November</b>	<b>50,078</b>
<b>December</b>	<b>53,520</b>
<b>Total</b>	<b>555,636</b>

**A Summary of 2019 Management Review Meeting Minutes as held by the Operating Authority**



**ANNUAL REPORT**

<b>Drinking-Water System Number:</b>	<b>220004995</b>
<b>Drinking-Water System Name:</b>	Union Water Service Area
<b>Drinking-Water System Owner:</b>	The Corporation of the Town of Lakeshore
<b>Drinking-Water System Category:</b>	Large Municipal Residential
<b>Period being reported:</b>	January 01, 2019 to December 31, 2019

<p><b>Does this Drinking-Water System serve more than 10,000 people? Yes [ ] No [ X ]</b></p> <p><b>Is this annual report available to the public at no charge on a web site on the Internet? Yes [X] No [ ]</b></p> <p><b>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</b></p> <p>Town of Lakeshore Municipal Building (Town Hall) 419 Notre Dame Street Belle River, Ont. NOR 1A0</p>	<p><b>Number of Designated Facilities served: None</b></p> <p><b>Number of Interested Authorities this system reports to: None</b></p>
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**Drinking-Water Systems which receive all of their drinking water from this system:**

<b>Drinking Water System Name</b>	<b>Drinking Water System Number</b>
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 4100 residents located within the Town 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
N/A					

**\*\* Please note that unless stated otherwise, all following values have been taken from 2019 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 #)
<b>Raw</b>	N/A	N/A	N/A	N/A	N/A
<b>Treated</b>	N/A	N/A	N/A	N/A	N/A
<b>Distribution</b>	208	0-0	0-0	104	<10-20



**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)			Mg/L
Distribution Free Chlorine Residuals (taken by Lakeshore operators)	83	0.28 – 1.65	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			mg/L	No
Nitrate			mg/L	No
Nitrate + Nitrite (N)			mg/L	No
Ammonia (N) -Total			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)	n/a	n/a	n/a	n/a	n/a
Distribution-Alkalinity (mg/L)	6	75	82	n/a	n/a
Distribution-pH In-house	6	7.56	7.93	n/a	n/a



**Summary of Organic parameters sampled during this reporting period**

<b>Parameter</b>	<b>Sample Date</b>	<b>Result Value</b>	<b>Unit of Measure</b>	<b>Exceedance</b>
<b>THM</b> (NOTE: show latest annual average)	<b>Annual Average</b>	<b>50.42</b>	<b>µg/L</b>	No
<b>HAA</b> (NOTE: show latest annual average)	<b>Annual Average</b>	<b>14.67</b>	<b>Ug/L</b>	No

**Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.**

<b>Parameter</b>	<b>Result Value</b>	<b>Unit of Measure</b>	<b>Date of Sample</b>
N/A			