



**Ontario Clean Water Agency**  
**Agence Ontarienne Des Eaux**



**Annual Summary Report**

**Lambton Area Water Supply System**

**2020**

**Prepared for the Lambton Area Water Supply System Board**

**By the Ontario Clean Water Agency**

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## SECTION 1

### Statement of Compliance

This report is a summary of water quality information for the Lambton Area Water Supply System and published in accordance with Schedule 22 of Ontario's Safe Drinking Water Act, Ontario Regulation 170/03 for the reporting period of January 1, 2020 to December 31, 2020. The Lambton Area Water Supply System is categorized as a Large Municipal Residential Drinking Water System.

This report was prepared by the Ontario Clean Water Agency on behalf of the Lambton Area Water Supply System Board.

The Lambton Area Water Supply System was operated and maintained in such a manner that the water supplied to the consumers serviced by the system satisfied all the requirements in the Safe Drinking Water Act, the Certificate of Approval and the Municipal Drinking Water Licence. There were two non-compliance issues reported.

## SECTION 2

### Details of the non-compliance issues as well as how and when any non-compliance issues were corrected

<b>Incident Date</b>	<b>Parameter</b>	<b>Result</b>	<b>Unit of Measure</b>	<b>Corrective Action</b>	<b>Notice of Resolution</b>
July 29, 2020	Filter #2 Turbidity Meter no flow while operating	Failure to meet O. Reg 170 Schedule 6-5	NTU	Opened valve allowing flow to turbidity meter	July 29, 2020
Dec 1, 2020	Missed taking weekly bacteriological samples for raw and treated water	Failure to meet O. Reg 170 Schedule 10-3	N/A	N/A	N/A

### SECTION 3

#### **Summary and discussion of quantity of water supplied**

In accordance with Schedule 22-2 (3) *“the report must also include the following information for the purpose of enabling the owner of the system to assess the capability of the system to meet existing and planned uses of the system.”*

- 1. A summary of the quantities and flow rates of the water supplied during the period covered by the report, including monthly average and maximum daily flows and daily instantaneous peak flow rate.*
- 2. A comparison of the summary referred to in paragraph 1 to the rated capacity and flow rates approved in the system’s approval must be discussed.*

The rated capacity specified in the Municipal Drinking Water Licence (Licence Number: 020-101) for the Lambton Area Water Supply System is 181,844 m<sup>3</sup>/day. The maximum treated daily flow for the reporting period was 97,657 m<sup>3</sup>/day on July 7, 2020. The rated capacity from the Municipal Drinking Water Licence was not exceeded.

The Permit to Take Water (Number 3657-7DJL86) states the maximum amount of water taken is 182,000,000 L/Day. The maximum amount of raw water taken in 2020 was 105,002,000 L on July 7, 2020. The Permit to Take Water limit was not exceeded.

Attached in Appendix A, are the average daily volume (m<sup>3</sup>), the maximum daily volume (m<sup>3</sup>) and the peak daily flow rate (L/sec) for treated water and raw. Also noted is the % of Design Volume for each.

The quantity of water supplied during the reporting period did not exceed the rated capacity of this facility.

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## Appendix A

### Lambton Area Water Supply System Annual Volume Record for 2020

Design Rated Capacity (Treated Flows): 181,844 m<sup>3</sup>/day

Month	Average Daily Volume of Treated Water (m <sup>3</sup> )	% of Design Volume	Maximum Daily Volume (m <sup>3</sup> )	% of Design Volume	Peak Daily Rate (L/sec)	% of Design Rate of 2104 L/sec
January	44815	24.6	48147	26.5	803.6	38.2
February	44079	24.2	47888	26.3	789.2	37.5
March	43484	23.9	47433	26.1	800.2	38.0
April	41676	22.9	45327	24.9	785.5	37.3
May	48894	26.9	65796	36.2	1085.2	51.6
June	63849	35.1	79186	43.5	1165.6	55.4
July	74405	40.9	97657	53.7	1466.7	69.7
August	64863	35.6	81049	44.6	1342.5	63.8
September	57551	31.6	65979	36.3	1021.9	48.6
October	48277	26.5	59806	32.9	999.4	47.5
November	45763	25.2	51765	28.5	788.8	37.5
December	43981	24.2	49430	27.2	784.5	37.3

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### Permit to Take Water Max Flow (Raw Water): 182,000 m<sup>3</sup>/day

<b>Month</b>	<b>Average Daily Volume of Raw Water (m<sup>3</sup>)</b>	<b>% of Permit Volume</b>	<b>Maximum Daily Volume (m<sup>3</sup>)</b>	<b>% of Permit Volume</b>	<b>Peak Daily Rate (L/sec)</b>	<b>% of Permit Rate of 2106 L/sec</b>
January	46223	25.4	51462	28.3	595.6	28.3
February	45011	24.7	49347	27.1	571.1	27.1
March	43968	24.2	68210	37.4	789.5	37.5
April	42331	23.3	54076	29.7	600.2	28.5
May	49718	27.7	68792	37.8	796.2	37.8
June	65202	35.8	89737	49.3	1038.6	49.3
July	75955	41.7	105002	57.7	1215.3	57.7
August	64405	35.4	80612	44.3	933.0	44.3
September	57451	31.6	64978	35.7	752.1	35.7
October	47967	26.3	67656	37.2	783.1	37.2
November	45904	25.2	53544	29.4	619.7	29.4
December	45132	24.8	49772	27.3	576.1	27.4