



Ontario Clean Water Agency
Agence Ontarienne Des Eaux



Annual Summary Report

Lambton Area Water Supply System

2021

Prepared for the Lambton Area Water Supply System Board

By the Ontario Clean Water Agency

Lambton Area Water Supply System Annual Summary Report 2021

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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, 2021 to December 31, 2021. 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

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Notice of Resolution
Sept 13, 2021	Filter #2 and #4 loss of communication on effluent turbidimeter	Failure to meet O. Reg 170 Schedule 6-5	NTU	Manually closed effluent valve until communications were restored to analyzer Integration of auto shutdown for filters in SCADA when filter turbidity falls below 0.01 NTU	Nov 12, 2021

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 m³/day. The maximum treated daily flow for the reporting period was 88,617 m³/day on Aug 7, 2021. The rated capacity from the Municipal Drinking Water Licence was not exceeded.

The Permit to Take Water (Number 3560-APLNRJ) states the maximum amount of water taken is 182,000 m³/day. The maximum amount of raw water taken in 2021 was 92,934 m³/day on Aug 22, 2021. The Permit to Take Water limit was not exceeded.

Attached in Appendix A, are the average daily volume (m³), the maximum daily volume (m³) 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 2021

Design Rated Capacity (Treated Flows): 181,844 m³/day

Month	Average Daily Volume of Treated Water (m ³)	% of Design Volume	Maximum Daily Volume (m ³)	% of Design Volume	Peak Daily Rate (L/sec)	% of Design Rate of 2104 L/sec
January	43502	23.9	48879	26.9	837.7	39.8
February	47535	26.1	57505	31.6	785.5	37.3
March	44777	24.6	49037	26.9	892.9	42.4
April	45792	25.2	54566	30.0	826.2	39.3
May	55174	30.3	78737	43.3	1120.7	53.3
June	66533	36.6	85033	46.7	1293.4	61.5
July	61956	34.0	74794	41.1	1139.7	54.2
August	70112	38.5	88617	48.7	1275.1	60.6
September	59295	32.6	87891	48.3	1059.8	50.4
October	49928	27.4	61312	33.7	790.7	37.6
November	47744	26.2	57547	31.6	801.6	38.1
December	45875	25.2	58546	32.2	800.0	38.0

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Permit to Take Water Max Flow (Raw Water): 182,000 m³/day

Month	Average Daily Volume of Raw Water (m³)	% of Permit Volume	Maximum Daily Volume (m³)	% of Permit Volume	Peak Daily Rate (L/sec)	% of Permit Rate of 2106 L/sec
January	46267	25.4	50524	27.8	584.8	27.8
February	48505	26.7	60285	33.1	697.7	33.1
March	45946	25.2	57762	31.7	668.5	31.7
April	46870	25.8	53580	29.4	620.1	29.4
May	56388	31.0	82691	45.4	957.1	45.4
June	68294	37.5	88215	48.5	1021.0	48.5
July	62399	34.3	78025	42.9	985.1	46.8
August	70669	38.8	92934	51.1	1075.6	51.1
September	58390	32.1	72387	39.8	837.8	39.8
October	50389	27.7	64211	35.3	743.2	35.3
November	49266	27.1	67712	37.2	783.7	37.2
December	47151	25.9	64420	35.4	745.6	35.4