



Ontario Clean Water Agency
Agence Ontarienne Des Eaux



Annual Summary Report

Lambton Area Water Supply System

2016

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, 2016 to December 31, 2016. 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 was one adverse water quality events/non-compliance issue reported. The issue was a Total Coliform result of 1 cfu/ 100mL taken from the treated water tap at the Water Treatment Plant. The MOECC and the Local Public Health Unit were informed as required. A resample was taken and the result was found to be free of Total Coliform.

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
Nov 14, 2016	Treated Water Total Coliform	1	cfu/100mL	Resampled Nov 16, 2016 from Treated Water Tap	Nov 21, 2016

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 90,959 m³/day on August 11, 2016. 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 2015 was 94,102,000 L on August 10, 2016. 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 2016

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	46478	25.6	51695	28.4	849	40.3
February	46998	25.8	68068	37.4	881	41.9
March	45008	24.8	50570	24.8	911	43.3
April	46248	25.4	50734	27.9	836	39.7
May	55216	30.4	74421	40.9	1120	53.2
June	64741	35.6	77151	42.4	1168	55.5
July	68956	37.9	80599	44.3	1269	60.3
August	70902	39.0	90959	50.0	1215	57.8
September	57005	31.3	68886	37.9	991	47.1
October	50747	27.9	58096	31.9	943	44.8
November	47130	25.9	52638	28.9	894	42.5
December	45401	25.0	51850	28.5	843	40.0

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

Month	Average Daily Volume of Raw Water (m ³)	% of Permit Volume	Maximum Daily Volume (m ³)	% of Permit Volume	Peak Daily Rate (L/sec)	% of Permit Rate of 2106 L/sec
January	49024	26.9	57752	31.7	668	31.7
February	49004	26.9	61446	33.8	711	33.8
March	48039	26.4	53149	29.2	615	29.2
April	49788	27.4	56625	31.1	655	31.1
May	55961	30.7	76556	42.1	886	42.1
June	64970	35.7	77369	42.5	895	42.5
July	70251	38.6	83196	45.7	963	45.8
August	71622	39.4	94102	51.7	1089	51.8
September	57220	31.4	69614	38.2	806	38.3
October	50524	27.8	57652	31.7	667	31.7
November	47308	26.0	54212	29.8	627	29.8
December	47790	26.3	52854	29.0	612	29.1

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