



Ontario Clean Water Agency
Agence Ontarienne Des Eaux



Annual Summary Report

Lambton Area Water Supply System

2014

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, 2014 to December 31, 2014. 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 reported as an adverse as a precaution. The adverse was due to a loss of coagulant. A loss of coagulant (especially for such a short duration which in this case was four minutes) in itself is not an adverse but may cause an adverse due to chlorine contact time and turbidity issues.

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
October 29, 2014	It was noted that there was no flow of coagulant for 4 minutes. No coagulant flow may cause an	No adverse affects were noted on any of the filter effluent turbidities.	none	Restored coagulant feed system and tested failed system to ensure that it would work (which it did).	October 30, 2014

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	<p>adverse due to a possible failure of chemically assisted filtration from Procedure for Disinfection of Drinking Water in Ontario.</p>		<p>Alarm for 0 coagulant flow has been set up in the PLC system as another operational aid in determining coagulation issues.</p>
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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 75,897 m³/day on July 25, 2014. The rated capacity from the Municipal Drinking Water Licence was not exceeded.

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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 2014 was 84,113,000 L on July 25, 2014. 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). 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.

Appendix A

Lambton Area Water Supply System Annual Volume Record for 2014

Design Treated Flows: 182,000 m³/day

Month	Average Daily Volume (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	47787	26.2	59457	32.7	1016.7	48.3
February	48586	26.7	56329	31.0	775.1	36.8
March	47122	25.9	51026	28.0	823.2	39.1
April	47044	25.8	51674	28.4	904.7	43.0
May	53231	29.2	66447	36.5	1116.7	53.1
June	64410	35.4	75696	41.6	1185.1	56.3
July	61455	33.8	75897	41.7	1381.1	65.6
August	58667	32.2	67283	37.0	1128.0	53.6
September	51581	28.3	62799	34.5	1069.2	50.8
October	47157	25.9	51082	28.1	825.8	39.2
November	44438	24.4	47267	26.0	897.8	42.7
December	45847	25.2	55690	30.6	802.3	38.1

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

Month	Average Daily Volume (m³)	% of Permit Volume	Maximum Daily Volume (m³)	% of Permit Volume	Peak Daily Rate (L/sec)	% of Permit Rate of 2106 L/sec
January	49877	27.4	67748	37.2	741.1	35.2
February	48984	26.9	57489	31.6	729.6	34.6
March	47673	26.2	58601	32.2	719.1	34.1
April	49929	27.4	66271	36.4	780.2	37.0
May	53187	29.2	66157	36.4	764.8	36.3
June	64352	35.4	81032	44.5	943.5	44.8
July	64308	35.3	84113	46.2	953.2	45.2
August	60181	33.1	69609	38.2	862.6	41.0
September	52042	28.6	65248	35.9	762.6	36.2
October	48216	26.5	53376	29.3	740.2	35.1
November	45995	25.3	49626	27.3	714.6	33.9
December	48001	26.4	55959	30.7	738.1	35.0