



Ontario Clean Water Agency
Agence Ontarienne Des Eaux



Annual Summary Report

Lambton Area Water Supply System

2015

Prepared for the Lambton Area Water Supply System Board

By the Ontario Clean Water Agency

TABLE OF CONTENTS

Section Number	CONTENTS	Page Number
1	<p>"Compliance with the Safe Drinking Water Act and Regulation 170/03, the system's approval, drinking water works permit, municipal drinking water licence and any orders applicable to the system "</p> <p><i>Statement of Compliance</i></p>	2
2	<p>"Non-Compliance with the Safe Drinking Water Act and Regulation 170/03, the system's approval, drinking water works permit, municipal drinking water licence and any orders applicable to the system"</p> <p><i>Details of the non-compliance issues as well as how and when any non-compliance issues were corrected</i></p>	2-3
3	<p>"Assessment of the capability of the system to meet existing and planned uses of the system"</p> <p><i>Summary and discussion of quantity of water supplied</i></p>	3-4
APPENDIX		
Appendix A	Annual volume record of the Lambton Area Water Supply System January 1, 2015 – December 31, 2015	4-5

Lambton Area Water Supply System Annual Summary Report 2015

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, 2015 to December 31, 2015. 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 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
April 23, 2015	It was noted that there was no flow of coagulant. No coagulant flow may cause an adverse due to a possible failure of chemically	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). Wasted all	April 23, 2015

Lambton Area Water Supply System Annual Summary Report 2015

	<p>assisted filtration from Procedure for Disinfection of Drinking Water in Ontario.</p>		<p>uncoagulated water prior to filters. Alarm for 0 coagulant flow has been set up in the PLC system as another operational aid in determining coagulation issues.</p>
--	---	--	---

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 78,221 m³/day on May 23, 2015. The rated capacity from the Municipal Drinking Water Licence was not exceeded.

Lambton Area Water Supply System Annual Summary Report 2015

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 79,435,000 L on July 28, 2015. 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.

Appendix A

Lambton Area Water Supply System Annual Volume Record for 2015

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	47127	25.9	56851	31.2	875	41.5
February	47681	26.1	60299	33.1	983	46.7
March	48797	26.8	58453	32.1	846	40.2
April	47003	25.8	51307	28.2	797	37.9
May	59906	32.9	78221	43.0	1119	53.2
June	57804	31.8	65770	36.1	1145	54.4
July	62856	34.5	73374	40.3	1184	56.3
August	61462	33.8	71949	39.5	1114	52.9
September	58219	32.0	70370	38.7	1109	52.7
October	51928	28.5	60590	33.3	1085	51.6
November	47554	26.1	66819	36.7	807	38.4
December	45489	25.0	49793	27.4	859	40.8

Lambton Area Water Supply System Annual Summary Report 2015

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	50486	27.7	67822	37.3	1129	53.6
February	50956	28.0	59554	32.7	1146	54.4
March	50763	27.9	56632	31.1	763	36.2
April	48100	26.4	55514	30.5	779	37.0
May	62459	34.3	77002	42.3	1194	56.7
June	58372	32.1	70308	38.6	1191	56.6
July	63104	34.7	79435	43.6	1204	57.2
August	60101	33.0	72250	40.0	1199	56.9
September	56750	31.2	71120	39.1	1194	56.7
October	52723	29.0	62581	34.4	1191	56.6
November	48809	26.8	74712	41.1	1237	58.7
December	47873	26.3	54049	30.0	750	35.6