



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

March 30, 2017

Rob Johnson
Director of Physical Services
87 John Street South
Aylmer, ON N5H 2C3

Re: Safe Drinking Water Act, O. Reg. 170/03 Schedule 22 Summary Report

Dear Mr. Johnson,

Attached is the 2016 Summary Report for the Aylmer Area Secondary Water Supply System. This report is completed in accordance with Schedule 22 of O. Reg. 170/03, under the Safe Drinking Water Act.

This Summary Report is to be provided to the members of the Aylmer Area Secondary Water Supply System Joint Board of Management by March 31, 2017. I have provided the members of the Board a copy of the report via email.

We recently forwarded a copy of the 2016 Annual Report for the Aylmer Area Secondary Water Supply System required under Section 11 of O. Reg. 170/03. Section 12 of O. Reg. 170/03, requires both the Summary Report and the Section 11 Annual Report be made available for inspection by any member of the public during normal business hours, without charge. The reports should be made available for inspection at the office of the township, or at a location that is reasonably convenient to the users of the water system.

Please feel free to contact me should you require any additional information regarding these reports. I can be reached at 226-377-3563.

Sincerely,

A handwritten signature in black ink that reads "Cindy Sigurdson".

Cindy Sigurdson
Safety, Process and Compliance Manager

c.c. Dale LeBritton, OCWA's Regional Hub Manager
Sam Sianas, OCWA's Senior Operations Manager
Mike Taylor, Malahide's Water/Wastewater Operations Manager



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Annual Summary Report

For the

**Aylmer Area Secondary
Water Supply System**

For the Year

2016

**Prepared for the Township of Malahide,
Administering Municipality for the Aylmer Area
Secondary Water Supply System**

By the Ontario Clean Water Agency

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| 3 | Corrective Actions Schedule 22-2 (2)(b) For each requirement referred to in section 2 that was not met, specify the duration of the failure and the measures that were taken to correct the failure. | 1 |
| 4 | Flow Summary Schedule 22-2 (3) <ol style="list-style-type: none"> 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. 2. A comparison of the summary referred to in paragraph 1 to the rated capacity and flow rates approved in the system's approval, drinking water works permit or municipal drinking water licence, or if the system is receiving all of its water from another system under an agreement pursuant to subsection 5 (4), to the flow rates specified in the written agreement. | 1 |
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SECTION 1: Overview

This summary report for the Aylmer Area Secondary Water Supply System is published in accordance with Schedule 22 of Ontario's Drinking Water Systems Regulation for the reporting period of January 1st, 2016 to December 31st, 2016. The Aylmer Area Secondary Water Supply System (waterworks number 260004722) is categorized as a Large Municipal Residential Drinking Water System.

The Aylmer Area Secondary Water Supply System is operated under the Municipal Drinking Water Licence (MDWL) 302-101 and Drinking Water Works Permit (DWWP) 302-201.

This report was prepared by the Ontario Clean Water Agency (OCWA) on behalf of the administering authority, the Township of Malahide, and only includes the OCWA Southwest Region operated portion of the system. This portion includes the transmission main from Chamber A001 to Chamber A018 at the Aylmer/Malahide border.

SECTION 2: Compliance

The Aylmer Area Secondary Water Supply System was operated and maintained in such a manner that water supplied to the consumers and serviced by the system satisfied the requirements in the Safe Drinking Water Act, Municipal Drinking Water Licence and Drinking Water Works Permit.

The Annual Inspection of the Aylmer Area Secondary Water Supply System on June 14th, 2016 conducted by Stephen Dunn of the Ministry of the Environment and Climate Change (MOECC) identified no non-compliances with regulatory requirements.

SECTION 3: Corrective Action

The routine MOECC Inspections have an Inspection Rating Record, which evaluates the system to provide information for the owner/operator on areas that need to be improved. The particular areas that were evaluated for the Aylmer Area Secondary Water Supply System were: Treatment Process, Distribution System, Operations Manuals, Logbooks, Certification and Training, Water Quality Monitoring and Treatment Process Monitoring. This system received 0 out of 190 non-compliance ratings and as such received 100% for the Final Inspection Rating.

SECTION 4: Summary and Discussion of Quantity of Water Supplied

In accordance with Schedule 22-2(3) 1, find a summary and discussion of the quantity of water supplied during the reporting period. There are no rated capacities specified in the Municipal Drinking Water Licence.

Attached as Appendix A, find a summary of flow for the Elgin Middlesex Pumping Station which supplies all of the water to the Aylmer Area Secondary Water Supply System. This data is collected at the Elgin Middlesex Pump Station.

The average daily flow supplied to the Aylmer Area Secondary Water Supply System was 3,605m³/day, which is a 3.7% increase from the previous year. The maximum daily flow for 2016 was 5,344m³/day, which is a 5.6% increase from the previous year.

Attached as Appendix B are the flow totals for all meters that are located in the Aylmer Area Secondary Water Supply System.

APPENDIX A

The table below is a summary of quantities and flow rates from the Elgin Middlesex Booster Pumping Station meter for 2016 compared to 2015 values.

| Month | 2016 Total Flow (m³) | 2015 Total Flow (m³) | 2016 Average Day Flow (m³) | 2015 Average Day Flow (m³) | % Difference between 2016 and 2015 | 2016 Max Day Flow (m³) | 2015 Max Day Flow (m³) | % Difference Between 2016 and 2015 |
|-------------------|--|--|--|--|---|--|--|---|
| January | 93,565 | 100,741 | 3,187 | 3,250 | -1.9 | 3,524 | 3,732 | -5.6 |
| February | 90,627 | 96,360 | 3,288 | 3,441 | -4.4 | 3,622 | 4,456 | -18.7 |
| March | 99,371 | 111,779 | 3,292 | 3,606 | -8.7 | 3,585 | 4,057 | -11.6 |
| April | 108,973 | 102,244 | 3,436 | 3,408 | 0.8 | 3,796 | 3,839 | -1.1 |
| May | 119,376 | 106,951 | 3,926 | 3,450 | 13.8 | 4,984 | 4,391 | 13.5 |
| June | 125,262 | 113,343 | 4,336 | 3,778 | 14.8 | 5,344 | 4,513 | 18.4 |
| July | 134,694 | 122,168 | 4,109 | 3,941 | 4.3 | 4,948 | 5,063 | -2.3 |
| August | 118,847 | 120,112 | 3,931 | 3,875 | 1.4 | 4,598 | 4,334 | 6.1 |
| September | 105,234 | 115,994 | 3,616 | 3,866 | -6.5 | 4,687 | 4,575 | 2.4 |
| October | 110,117 | 101,886 | 3,449 | 3,287 | 4.9 | 3,985 | 3,881 | 2.7 |
| November | 102,257 | 99,543 | 3,387 | 3,318 | 2.1 | 3,683 | 3,828 | -3.8 |
| December | 109,098 | 99,494 | 3,290 | 3,209 | 2.5 | 3,599 | 3,698 | -2.7 |
| Total Flow | 1,317,421 | 1,290,615 | | | | | | |
| Average | | | 3,605 | 3,536 | 3.7 | | | |
| Maximum | | | | | | 5,344 | 5,063 | 5.6 |

APPENDIX B

The table below is a summary of quantities and flow rates from the meters on the system for 2016 compared to 2015 values.

| Meter | 2016 Total Flow (m³) | 2015 Total Flow (m³) | % Difference between 2016 and 2015 |
|-----------------|--|--|---|
| Chamber 13 | 1,273,525 | 1,264,446 | 0.7 |
| Chamber 16 | 1,246,066 | 1,273,624 | -2.2 |
| Tower Rd. | 5,019 | 4,120 | 21.8 |
| Belmont Rd. | 2,550 | 2,087 | 22.2 |
| Springwater Rd. | 2,614 | 1,398 | 87.0 |
| Norton St. | 648 | 715 | -9.3 |
| Rogers Rd. | 339 | 373 | -9.2 |
