

March 30, 2016

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 2015 Summary Report for the Malahide Distribution 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 municipal council by March 31st; I have emailed copies of the report to each council member as provided by Mike Taylor.

We recently forwarded a copy of the 2015 Annual Report for the Malahide Distribution System required under Section 11 of O. Reg. 170/03. Section 12 of O. Reg. 170/03, requires both the Summary Report and 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,



Cindy Sigurdson
Operations and Compliance Team Lead

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



**Ontario Clean Water Agency
Agence Ontarienne Des Eaux**

Annual Summary Report

For the

Malahide Distribution System

For the Year

2015

**Prepared for the Township of Malahide
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 total and monthly average 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 of System

This summary report for the Malahide Distribution System is published in accordance with Schedule 22 of Ontario's Drinking Water Systems Regulation for the reporting period of January 1st, 2015 to December 31st, 2015. The Malahide Distribution System (waterworks number 260004774) is categorized as a Large Municipal Residential Drinking Water System.

This report was prepared by The Ontario Clean Water Agency on behalf of the Township of Malahide and must be supplied to the municipal council by March 31, 2016.

SECTION 2: Compliance with Regulations

The Malahide Water Distribution Supply System was operated and maintained in such a manner, that water supplied to the consumers serviced by the system satisfied the requirements in the Safe Drinking Water Act, the regulations, and the system's Municipal Drinking Water Licence (Issue 1, 051-101) and Drinking Water Works Permit (Issue 1, 051-201).

There were no Adverse Drinking Water Quality Incidents (AWQI) reported during this reporting period. The Ministry of the Environment and Climate Change (MOECC) conducted the routine annual inspection on August 26th, 2015. The inspecting officer, Stephen Dunn, found no non-compliances with the regulatory requirements.

SECTION 3: Corrective Actions

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 Malahide Distribution 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 184 non-compliance ratings and as such received 100% for the Final Inspection Rating.

SECTION 4: Summary and Discussion of Quantity of Water Supplied

The Malahide Distribution System consists of a number of tertiary mains throughout the Township. Flow rates are measured throughout the distribution system.

Attached as Appendix A is a summary of flows including total and average daily flows for the reporting period at the Copenhagen Booster Pumping Station. The Copenhagen Booster Pumping Station daily average flow for the reporting period was 53.6m³/day, which is a 4.9% decrease from 2014.

Attached as Appendix B are the remaining flow readings for the Malahide Distribution System. The total flow (including Copenhagen) supplied to the system was 150,635m³, which corresponds to an 8.6% increase from 2014.

APPENDIX A

The table below is a summary of quantities and flow rates from the Copenhagen Booster Station for 2015 compared to 2014 values.

Month	2015 Total Flow (m³)	2014 Total Flow (m³)	2015 Average Day Flow (m³/day)	2014 Average Day Flow (m³/day)	Difference between 2015 and 2014 (%)
January	1,480	1,480	47.7	47.7	0.1
February	1,337	1,303	47.8	46.5	2.7
March	1,401	2,130	45.2	68.7	-34.2
April	1,199	1,671	40.0	55.7	-28.2
May	1,574	1,673	50.8	54	-6.0
June	1,433	1,923	47.8	64.1	-25.5
July	1,740	1,889	56.1	60.9	-7.8
August	1,856	1,615	59.9	52.1	14.9
September	2,012	1,552	67.1	51.7	29.7
October	1,818	1,689	58.7	54.5	7.6
November	1,963	1,432	65.4	47.7	37.2
December	1,764	2,246	56.9	72.5	-21.5
Total Flow	19,577	20,602			
Average			53.6	56.4	-4.9

APPENDIX B

The table below is a summary of quantities of flow for water usage throughout Malahide (excluding Copenhagen) in 2015 compared to 2014.

Month	2015 Total Flow (m ³)	2014 Total Flow (m ³)	2015 Average Day Flow (m ³)	2014 Average Day Flow (m ³)	Difference between 2015 and 2014 Flows (%)
Talbot Street East	3544	3,936	9.7	10.8	-10.1
Dingle Street	63039	77,639	172.7	212.7	-18.8
Talbot Street West	14230	10,305	39.0	28.2	38.2
PB01 (Rush Creek)	3135	3,333	8.6	9.1	-5.6
PB02 (Port Bruce)	16176	13,851	44.3	37.9	16.9
Port Burwell Line	24592	28,593	67.4	78.3	-14.0
Waneeta Beach	1052	1,104	2.9	3	-3.9