

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 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 2016 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
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



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

Annual Summary Report
For the
Malahide Distribution System
For the Year
2016

**Prepared for the Township of Malahide
By the Ontario Clean Water Agency**

Table of Contents

Section Number	Contents	Page Number
1	Overview of System	1
2	Compliance with Regulations Schedule 22-2 (2)(a) List the requirements of the Act, the regulations, the system’s approval, drinking water works permit, municipal drinking water licence, and any orders applicable to the system that were not met at any time during the period covered by the report.	1
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
APPENDICES		
APPENDIX A Copenhagen Booster Pumping Station flows for January 1 st , 2016 to December 31 st , 2016		
APPENDIX B Malahide Distribution System Annual Flow Readings		

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, 2016 to December 31st, 2016. 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, 2017.

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 (051-101) and Drinking Water Works Permit (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 16th, 2016. 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, Reporting and Corrective Actions and Treatment Process Monitoring. This system received 0 out of 259 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 56.8m³/day, which is a 5.6% increase from 2015.

Attached as Appendix B are the remaining flow readings for the Malahide Distribution System. The total flow (including Copenhagen) supplied to the system was 154,826m³, which corresponds to a 2.8% increase from 2015.

APPENDIX A

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

Month	2016 Total Flow (m³)	2015 Total Flow (m³)	2016 Average Day Flow (m³/day)	2015 Average Day Flow (m³/day)	Difference between 2016 and 2015 (%)
January	1,889	1,480	60.9	47.7	21.7
February	1,236	1,337	42.6	47.8	-12.2
March	1,288	1,401	41.5	45.2	-8.8
April	1,264	1,199	42.1	40.0	5.1
May	1,704	1,574	55.0	50.8	7.6
June	1,775	1,433	59.2	47.8	19.2
July	1,946	1,740	62.8	56.1	10.6
August	2,207	1,856	71.2	59.9	15.9
September	2,332	2,012	77.7	67.1	13.7
October	2,234	1,818	72.1	58.7	18.5
November	1,433	1,963	47.8	65.4	-36.9
December	1,481	1,764	47.8	56.9	-19.1
Total Flow	20,789	19,577			
Average			56.8	53.6	5.6

APPENDIX B

The table below is a summary of quantities of flow for water usage throughout Malahide (excluding Copenhagen) in 2016 compared to 2015.

Month	2016 Total Flow (m ³)	2015 Total Flow (m ³)	2016 Average Day Flow (m ³ /d)	2015 Average Day Flow (m ³ /d)	Difference between 2016 and 2015 Flows (%)
Talbot Street East	4,840	3544	13.2	9.7	36.3
Dingle Street	68,515	63039	187.2	172.7	8.4
Talbot Street West	10,735	14230	29.3	39.0	-24.8
PB01 (Rush Creek)	3,323	3135	9.1	8.6	5.6
PB02 (Port Bruce)	8,903	16176	24.3	44.3	-45.1
Dexter and Imperial	5,831	-	15.9	-	-
Port Burwell Line	24,692	24592	67.5	67.4	0.1
Waneeta Beach	932	1052	2.5	2.9	-12.2