



ANNUAL REPORT

Drinking-Water System Number:	260004774
Drinking-Water System Name:	Malahide Distribution System
Drinking-Water System Owner:	Corporation of the Township of Malahide
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1 st to December 31 st , 2016

<p><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes [] No [X]</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [X] No []</p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Township of Malahide Office 87 John Street Aylmer, ON N5H 2C3</p> </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served:</p> <div style="border: 1px solid black; padding: 2px; width: 100px; margin: 5px 0;">n/a</div> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [] No []</p> <p>Number of Interested Authorities you report to:</p> <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px 0;"></div> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No []</p>
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List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
Ontario Police College Water System	260002161

Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water? Yes [X] No []



Indicate how you notified system users that your annual report is available, and is free of charge.

Public access/notice via the web

Public access/notice via Government Office

Public access/notice via a newspaper

Public access/notice via Public Request

Public access/notice via a Public Library

Public access/notice via other method _____

Describe your Drinking-Water System

The Malahide Distribution System receives water from the following systems:

- 1) Port Burwell Area Secondary Water Supply System
- 2) The Aylmer Area Secondary Water Supply System
- 3) The Aylmer Distribution System

The source of these three systems is the Elgin Area Primary Water Supply System whose raw water is taken from Lake Erie. The Malahide Distribution System supplies water to the Ontario Police College Water System.

The Malahide Distribution System services Waneeta Beach, Port Bruce, Copenhagen, Granger Road, Norton & Church St. (Orwell), Dixie Estates, Pede Road, Imperial Road (Hwy 73), Dingle Street, Hacienda Road, and east from Aylmer on Talbot Line to 49823 Talbot Line. There are various size mains and construction material. There are 44 fire hydrants and five chambers in the system. The chambers (two at Copenhagen Booster, PB-01, PB-02 and PB-03) are for air relief, pressure control, and/or metering. Note: PB-01 and PB-02 are owned by the Port Burwell Area Secondary Water Supply System with the pressure regulating valves owned by Malahide. Sample stations are located throughout the distribution system for water quality monitoring purposes.

In Copenhagen, the booster station provides additional water pressure north of the chamber. This station alternates duty on the booster pumps and is equipped with a pressure regulating valve and SCADA system to notify operators if there are any issues at the station. Flow is measured with a magnetic flow meter.

List all water treatment chemicals used over this reporting period

There are no process chemicals used for water treatment for the system.

Were any significant expenses incurred to?

- Install required equipment
- Repair required equipment
- Replace required equipment

Please provide a brief description and a breakdown of monetary expenses incurred

-Various repairs to water shutoffs/curbstops in distribution system
 -Inspect all PRV's in Port Bruce PB01, PB02, Dexter/Imperial, Waneeta Beach
 -Replaced flood alarm float at Copenhagen Booster
 -Spare household meters and parts
 -Rebuild PRV at Dexter/Imperial metering chamber
 -Replace PRV at PB02 metering chamber
 -Replace pump 2 at Copenhagen with brand new pump
 -Replace pump 1 at Copenhagen with spare pump
 -Hydrant Painting and NFP colour coding

Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
n/a	n/a	n/a	n/a	n/a	n/a

Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period.

	No. of Samples Collected for period being reported	Range of E. Coli Results (cfu/100mL)		Range of Total Coliform Results (cfu/100mL)		Number of HPC Samples	Range of HPC Results (cfu/mL)	
		Minimum	Maximum	Minimum	Maximum		Minimum	Maximum
Distribution	161	0	0	0	0	109	0	30

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

	No. of Samples Collected for period being reported	Range of Results	
		Minimum	Maximum
Free Chlorine Residual (mg/L)	364	0.24	1.07

NOTE: For continuous monitors use 8760 as the number of samples.

Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument.

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure
n/a	n/a	n/a	n/a	n/a

Summary of lead testing under Schedule 15.1 during this reporting period

(applicable to the following drinking water systems; large municipal residential systems, small municipal residential systems, and non-municipal year-round residential systems)

Location Type	Number of Samples	Range of Results		MAC (ug/L)	Number of Exceedances
		Minimum	Maximum		
DW - Lead Results (ug/L)	n/a	n/a	n/a	10	0
DW - Alkalinity (mg/L)	4	88	106	n/a	n/a
DW - pH	4	7.34	8.33	n/a	n/a

Summary of Organic parameters sampled during this reporting period or the most recent sample results

DISTRIBUTION WATER	Sample Date (mm/dd/yyyy)	Sample Result	MAC	Number of Exceedances	
				MAC	1/2 MAC
Trihalomethane: Total (ug/L)	Annual Running Average	35.5	100.00	No	No

List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.

Parameter	Result Value	Unit of Measure	Date of Sample
n/a	n/a	n/a	n/a