



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

March 26, 2018

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 2017 Summary Report for the Port Burwell 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 Port Burwell Area Secondary Water Supply System Joint Board of Management by March 31, 2018.

We recently forwarded a copy of the 2017 Annual Report for the Port Burwell 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 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 municipality, 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. Terry Bender, OCWA's Acting Regional Hub Manager
Mike Taylor, OCWA's Senior Operations Manager
Sam Gustavson, Malahide's Water/Wastewater Operations Manager
Umashree Pancholy, OCWA's Process and Compliance Technician



Annual Summary Report

For the

**Port Burwell Area Secondary
Water Supply System**

2017

**Prepared for the Township of Malahide,
Administering Municipality for the Port Burwell
Area Secondary Water Supply System
By the Ontario Clean Water Agency**

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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, average daily 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 of System

This summary for the Port Burwell Area Secondary Water Supply System was published in accordance with Schedule 22 of Ontario's Drinking Water Systems Regulation for the reporting period of January 1, 2017 to December 31, 2017. The Port Burwell Area Secondary Water Supply System (waterworks number 260004735) 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 Port Burwell Area Secondary Water Supply System Joint Board of Management by March 31, 2018.

SECTION 2: Compliance

The Port Burwell 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, the regulations, the Municipal Drinking Water Licence (303-101) and Drinking Water Works Permit (303-201).

The Annual inspection of the Port Burwell Area Secondary Water Supply System was conducted by the Ministry of the Environment and Climate Change (MOECC), Jim Miller, on August 1st, 2017. There were no non-compliances identified for the inspection period.

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 Port Burwell Area Secondary Water Supply 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 407 non-compliance ratings and as such received 100% for the Final Inspection Rating.

SECTION 4: Summary and Discussion of Quantity of Water Supplied

The current Municipal Drinking Water Licence does not specify a rated capacity for this system. There are several metering sites throughout the system to capture flows.

The flow entering the Port Burwell Area Secondary Water Supply System is monitored at the Port Burwell Valve House (MV1). Refer to Appendix A for the flows during the reporting period. The average daily flow for 2017 was 644m³/day which is a decrease of 0.2% from 2016 average day flows. The maximum daily flow for 2017 was 1,208m³/day, which is an increase of 17% from the previous year.

There are various flow meters within to the PBASWSS, these assist with providing flow data for billing purposes, chlorine dosing and line loss studies. Appendix B provides the monthly meter flows for each of these meters.

APPENDIX A

The table below is a summary of quantities and flow rates supplying the PBASWSS from the Port Burwell Valve House meter (MV1 Meter) for 2017 compared to 2016 values.

Month	2017 Total Flow (m ³)	2016 Total Flow (m ³)	2017 Average Day Flow (m ³ /day)	2016 Average Day Flow (m ³ /day)	% Difference between 2017 and 2016	2017 Max Day Flow (m ³ /day)	2016 Max Day Flow (m ³ /day)	% Difference Between 2017 and 2016
January	13,943	17,075	482.3	596.4	-19.1	699	768	-9.0
February	13,297	16,358	475.6	577.6	-17.7	647	728	-11.1
March	14,557	16,768	486.4	565.5	-14.0	698	820	-14.9
April	18,899	19,261	611.1	603.6	1.2	863	814	6.0
May	21,073	19,006	676.8	629.3	7.6	1,004	1,029	-2.4
June	25,463	21,451	760.0	738.7	2.9	947	925	2.4
July	23,632	25,700	849.3	779.1	9.0	1,050	909	15.5
August	25,825	27,081	856.2	894.5	-4.3	1,002	1,573	-36.3
September	23,127	21,984	724.1	758.4	-4.5	964	1,269	-24.0
October	19,841	19,192	663.9	606.2	9.5	1,208	1172	3.1
November	17,094	15,140	578.8	505.1	14.6	763	838	-8.9
December	17,876	16,442	548.9	488.9	12.3	700	720	-2.8
Total Flow	234,627	235,458						
Average			644.3	645.6	-0.2			
Max						1,208	1,029	17.4

APPENDIX B

The table below is a summary of flow volumes from the various flow meters in the PBASWSS.

Month	EO14 (m³)	Lakeview (m³)	EO38 (m³)	VO01 (m³)
January	2,356	10,205	5,215	3,841
February	2,932	9,040	4,946	3,527
March	3,166	11,059	5,330	3,916
April	3,936	10,939	6,969	4,351
May	4,417	13,057	7,098	4,331
June	4,330	14,126	9,624	4,400
July	5,707	15,569	10,793	4,585
August	5,170	15,336	10,016	4,745
September	4,611	14,037	8,121	5,075
October	3,571	11,133	5,989	4,259
November	3,336	10,694	5,262	4,217
December	3,378	11,099	6,141	4,840
Total Flow	46,910	146,294	85,504	52,087