



2018 ANNUAL REPORT

Drinking-Water System Licence:	220002832 (OAP 177)
Drinking-Water System Name:	HAWKESBURY DRINKING WATER SYSTEM
Drinking-Water System Owner:	CORPORATION OF THE TOWN OF HAWKESBURY
Drinking-Water System Category:	Large Municipal Residential System
Period being reported:	JANUARY 1ST, 2018 TO DECEMBER 31ST, 2018

<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 [<input checked="" type="checkbox"/>] No [<input type="checkbox"/>]</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [<input checked="" type="checkbox"/>] No [<input type="checkbox"/>]</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;"> <p>-TECHNICAL SERVICES DEPARTMENT</p> <p>-HAWKESBURY PUBLIC LIBRARY</p> <p>-WEB SITE: WWW.HAWKESBURY.CA</p> <p>-TOWNSHIP OF CHAMPLAIN</p> </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served:</p> <div style="border: 1px solid black; width: 100px; height: 30px; margin: 5px 0;"></div> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [<input type="checkbox"/>] No [<input type="checkbox"/>]</p> <p>Number of Interested Authorities you report to:</p> <div style="border: 1px solid black; width: 100px; height: 30px; 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 [<input type="checkbox"/>] No [<input type="checkbox"/>]</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
Township of Champlain (L'Orignal)	260037102
Township of Champlain (Vankleek Hill)	260002395
Township of Champlain (Park Laurentien)	260090012



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 [] 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:

Our waterworks currently serves a population of 10,854 in Hawkesbury and a population of approximately 3,400 in the township of Champlain. In accordance with its Official Plan, all development in the town has been provided with municipal water and sewer services. Water is supplied by the Water Filtration Plant, which is owned and operated by the municipality, and sewage is treated at the Water Pollution Control Plant which is also owned and operated by the municipality.

Our Water Filtration Plant is located at 670 Main Street West in Hawkesbury, Ontario. The plant was constructed in 1953 and upgraded and expanded in 1996-1997. The system's upgrade and expansion consisted mainly of the following works:

- Construction and integration of a second clarifier unit in the treatment process complete with related piping, controls, etc...
- Construction and integration of a second potable water underground storage tank (2760 m³) with related piping, controls, etc...
- Construction of a new settling and decanting tank for clarifier sludge and backwash wastewater.
- Supply and Installation of a new high lift pumping equipment.
- Supply and Installation of a new SCADA control system.
- Replacement and/or relocation of yard piping.

We also have a 5,454 m³ elevated storage reservoir in our distribution system located on Spence Av. in Hawkesbury.



List all water treatment chemicals used over this reporting period:

<ul style="list-style-type: none"> - Liquid Poly Hydroxy Aluminum Sulphate (PAS-8) - Alum - Liquid Chlorine (Compressed gas) - Sodium Silicate - Sodium Aluminate - Hydro Fluosilicic Acid - Hydrated Lime - Zinc Orthophosphate
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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:

WATER TREATMENT PLANT MAIN EXPENSES	
Description	Cost
High lift Drive Pump	8,609.64 \$
Flow meter clamp on	3,294.00\$
Control box for 3 diesel engines	20,000.00\$
Programmable Logic Controller (PLC) replacement	9,809.08 \$

WATER DISTRIBUTION MAIN EXPENSES
Cecile street: New homeowner water service
Regent street: New water main installation and new homeowner water service
Bon Pasteur Street: New water main installation

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
None					

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

	Number of Samples	Range of E.Coli Or Fecal Results (min #) - (max #)	Range of Total Coliform Results (min #) - (max #)	Number of HPC Samples	Range of HPC Results (min #) - (max #)
Raw	51	(0) – (62)	(2) – (1680)	51	(16) – (2040)
Treated	51	(0) – (0)	(0) – (0)	49	(2) – (16)
Distribution	350	(0) – (0)	(0) – (0)	144	(2) - (118)

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

	Number of Grab Samples	Range of Results (min #) - (max #)
Turbidity	8760	(0.09) – (0.32) NTU
Chlorine	8760	(0.54) – (1.29)
Fluoride	8760	(0.01) – (0.82)

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
April 25, 2005	TSS Creek discharge	1/ month	(3) – (10)	mg/L

Summary of Inorganic parameters tested during this reporting period or the most recent sample results:

Parameter	Sample Date	Result Value	Unit of Measure	Exceedances
Antimony	September 11th, 2018	< 0.0001	mg/L	No
Arsenic	September 11th, 2018	0.0003	mg/L	No
Barium	September 11th, 2018	0.010	mg/L	No
Boron	September 11th, 2018	0.005	mg/L	No
Cadmium	September 11th, 2018	< 0.000015	mg/L	No
Chromium	September 11th, 2018	< 0.002	mg/L	No
Mercury	September 11th, 2018	< 0.00002	mg/L	No
Selenium	September 11th, 2018	< 0.001	mg/L	No
Sodium	March 29th, 2016	7.5	mg/L	No
Uranium	September 11th, 2018	< 0.00005	mg/L	No
Nitrite	October 1st, 2018	< 0.1	mg/L	No
Nitrate	October 1st, 2018	0.2	mg/L	No

*only for drinking water systems testing under Schedule 15.2; this includes large municipal non-residential systems, small municipal non-residential systems, non-municipal seasonal residential systems, large non-municipal non-residential systems, and small non-municipal non-residential systems

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 Lead Results (min#) – (max #)	Number of Exceedances
Plumbing	6	(< 0.00002) – (0.00407)	none
Distribution	8	(< 0.00003) – (0.00019)	none

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	September 11 th , 2018	< 0.3	µg /L	No
Atrazine + N-dealkylated metabolites	September 11 th , 2018	< 0.5	µg /L	No
Azinphos-methyl	September 11 th , 2018	< 1	µg /L	No
Benzene	September 11 th , 2018	< 0.5	µg /L	No
Benzo(a)pyrene	September 11 th , 2018	< 0.005	µg /L	No
Bromoxynil	September 11 th , 2018	< 0.3	µg /L	No
Carbaryl	September 11 th , 2018	< 3	µg /L	No
Carbofuran	September 11 th , 2018	< 1	µg /L	No
Carbon Tetrachloride	September 11 th , 2018	< 0.2	µg /L	No
Chlorpyrifos	September 11 th , 2018	< 0.5	µg /L	No
Diazinon	September 11 th , 2018	< 1	µg /L	No
Dicamba	September 11 th , 2018	< 5	µg /L	No
1,2-Dichlorobenzene	September 11 th , 2018	< 0.1	µg /L	No
1,4-Dichlorobenzene	September 11 th , 2018	< 0.2	µg /L	No
1,2-Dichloroethane	September 11 th , 2018	< 0.1	µg /L	No
1,1-Dichloroethylene (vinylidene chloride)	September 11 th , 2018	< 0.1	µg /L	No
Dichloromethane	September 11 th , 2018	< 0.3	µg /L	No
2,4 Dichlorophenol 2,4	September 11 th , 2018	< 0.1	µg /L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	September 11 th , 2018	< 5	µg /L	No
Diclofop-methyl	September 11 th , 2018	< 0.5	µg /L	No
Dimethoate	September 11 th , 2018	< 1	µg /L	No
Diquat	September 11 th , 2018	< 5	µg /L	No
Diuron	September 11 th , 2018	< 5	µg /L	No
Glyphosate	September 11 th , 2018	< 25	µg /L	No
Malathion	September 11 th , 2018	< 5	µg /L	No
MCPA	September 11 th , 2018	< 0.00012	mg/L	No
Metolachlor	September 11 th , 2018	< 3	µg /L	No
Metribuzin	September 11 th , 2018	< 3	µg /L	No
Monochlorobenzene	September 11 th , 2018	< 0.2	µg /L	No
Paraquat	September 11 th , 2018	< 1	µg /L	No
Pentachlorophenol	September 11 th , 2018	< 0.1	µg /L	No

Phorate	September 11 th , 2018	< 0.3	µg /L	No
Picloram	September 11 th , 2018	< 5	µg /L	No
Polychlorinated Biphenyls(PCB)	September 11 th , 2018	< 0.05	µg /L	No
Prometryne	September 11 th , 2018	< 0.1	µg /L	No
Simazine	September 11 th , 2018	< 0.5	µg /L	No
THM	November 19 th , 2018	46.3	µg /L	No
Terbufos	September 11 th , 2018	< 0.3	µg /L	No
Tetrachloroethylene	September 11 th , 2018	< 0.2	µg /L	No
2,3,4,6-Tetrachlorophenol	September 11 th , 2018	< 0.1	µg /L	No
Triallate	September 11 th , 2018	< 10	µg /L	No
Trichloroethylene	September 11 th , 2018	< 0.1	µg /L	No
2,4,6-Trichlorophenol	September 11 th , 2018	< 0.1	µg /L	No
Trifluralin	September 11 th , 2018	< 0.5	µg /L	No
Vinyl Chloride	September 11 th , 2018	< 0.2	µg /L	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
None			

Martin Perron
Prepared by Martin Perron