



2014 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 1, 2014 to December 31, 2014

<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; margin-top: 10px;"> <p>-Technical Services Department -Hawkesbury Public Library -Web site: www.hawkesbury.ca -Township of Champlain</p> </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <input style="width: 100px; height: 20px;" type="text"/></p> <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: <input style="width: 100px; height: 20px;" type="text"/></p> <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



Ontario Drinking-Water Systems Regulation O. Reg. 170/03

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 town 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. 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

- Liquid Chlorine (Compressed gas)
- Hydrated Lime
- Sodium Aluminate
- Sodium Silicate
- Liquid Poly Hydroxy Aluminum Sulphate (PAS-8)
- Alum
- Hydro Fluosilicic Acid (25%)

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
 We replace an Watermain, Valve and connection and with new hydrant on Cartier-Cecile Blvd.

Estimate expenses \$240 000.00

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
June 23, 2014	Total Coliforms	1	cfu/100ml	Re-Sample	June 25, 2014
July 7, 2014	Total Coliforms	2	cfu/100ml	Re-sample	July 9, 2014

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	52	(0) – (97)	(2) – (1800)	n/a	n/a
Treated	52	(0) – (0)	(0) – (0)	51	(2) – (8)
Distribution	416	(0) – (0)	(0) – (0)	153	(2) - (82)

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	(0.15) – (0.36) NTU
Chlorine	8760	(0.60) – (1.29)
Fluoride	8760	(0.03) – (0.72)

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	Creek discharge (TSS)	1/ month	(5) – (11)	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	November 24, 2014	< 0.0001	mg/L	no
Arsenic	November 24, 2014	0.0004	mg/L	no
Barium	November 24, 2014	0.012	mg/L	no
Boron	November 24, 2014	< 0.006	mg/L	no
Cadmium	November 24, 2014	< 0.00002	mg/L	no
Chromium	November 24, 2014	< 0.002	mg/L	no
Mercury	November 24, 2014	< 0.00002	mg/L	no
Selenium	November 24, 2014	< 0.001	mg/L	no
Sodium	November 24, 2014	6.3	mg/L	no
Uranium	November 24, 2014	< 0.00005	mg/L	no
Fluoride	September 15, 2014	0.6	mg/L	no
Nitrite	November 25, 2014	< 0.1	mg/L	no
Nitrate	November 25, 2014	0.3	mg/L	no

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	0	n/a	n/a
Distribution	0	n/a	n/a

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	November 24, 2014	< 0.3	µg /L	no
Aldicarb	November 24, 2014	< 3	µg /L	no
Aldrin + Dieldrin	November 24, 2014	< 0.02	µg /L	no
Atrazine + N-dealkylated metabolites	November 24, 2014	< 0.5	µg /L	no
Azinphos-methyl	November 24, 2014	< 1	µg /L	no
Bendiocarb	November 24, 2014	< 3	µg /L	no
Benzene	November 24, 2014	< 0.5	µg /L	no
Benzo(a)pyrene	November 24, 2014	< 0.005	µg /L	no
Bromoxynil	November 24, 2014	< 0.3	µg /L	no
Carbaryl	November 24, 2014	< 3	µg /L	no
Carbofuran	November 24, 2014	< 1	µg /L	no
Carbon Tetrachloride	November 24, 2014	< 0.2	µg /L	no
Chlordane (Total)	November 24, 2014	< 0.04	µg /L	no
Chlorpyrifos	November 24, 2014	< 0.5	µg /L	no
Cyanazine	November 24, 2014	< 0.5	µg /L	no
Diazinon	November 24, 2014	< 1	µg /L	no
Dicamba	November 24, 2014	< 5	µg /L	no
1,2-Dichlorobenzene	November 24, 2014	< 0.1	µg /L	no
1,4-Dichlorobenzene	November 24, 2014	< 0.2	µg /L	no
Dichlorodiphenyltrichloroethane (DDT) + metabolites	November 24, 2014	< 0.01	µg /L	no
1,2-Dichloroethane	November 24, 2014	< 0.1	µg /L	no
1,1-Dichloroethylene (vinylidene chloride)	November 24, 2014	< 0.1	µg /L	no
Dichloromethane	November 24, 2014	< 0.3	µg /L	no



2-4 Dichlorophenol 2,4	November 24, 2014	< 0.1	µg /L	no
2,4-Dichlorophenoxy acetic acid (2,4-D)	November 24, 2014	< 5	µg /L	no
Diclofop-methyl	November 24, 2014	< 0.5	µg /L	no
Dimethoate	November 24, 2014	< 1	µg /L	no
Dinoseb	November 24, 2014	< 0.5	µg /L	no
Diquat	November 24, 2014	< 5	µg /L	no
Diuron	November 24, 2014	< 5	µg /L	no
Glyphosate	November 24, 2014	< 25	µg /L	no
Heptachlor + Heptachlor Epoxide	November 24, 2014	< 0.1	µg /L	no
Lindane (Total)	November 24, 2014	< 0.1	µg /L	no
Malathion	November 24, 2014	< 5	µg /L	no
Methoxychlor	November 24, 2014	< 0.1	µg /L	no
Metolachlor	November 24, 2014	< 3	µg /L	no
Metribuzin	November 24, 2014	< 3	µg /L	no
Monochlorobenzene	November 24, 2014	< 0.2	µg /L	no
Paraquat	November 24, 2014	< 1	µg /L	no
Parathion	November 24, 2014	< 3	µg /L	no
Pentachlorophenol	November 24, 2014	< 0.1	µg /L	no
Phorate	November 24, 2014	< 0.3	µg /L	no
Picloram	November 24, 2014	< 5	µg /L	no
Polychlorinated Biphenyls(PCB)	November 24, 2014	< 0.05	µg /L	no
Prometryne	November 24, 2014	< 0.1	µg /L	no
Simazine	November 24, 2014	< 0.5	µg /L	no
THM	November 24, 2014	63.8	µg /L	no
Temephos	November 24, 2014	< 10	µg /L	no
Terbufos	November 24, 2014	< 0.3	µg /L	no
Tetrachloroethylene	November 24, 2014	< 0.2	µg /L	no
2,3,4,6-Tetrachlorophenol	November 24, 2014	< 0.1	µg /L	no
Triallate	November 24, 2014	< 10	µg /L	no
Trichloroethylene	November 24, 2014	< 0.1	µg /L	no
2,4,6-Trichlorophenol	November 24, 2014	< 0.1	µg /L	no
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	November 24, 2014	< 10	µg /L	no
Trifluralin	November 24, 2014	< 0.5	µg /L	no
Vinyl Chloride	November 24, 2014	< 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			

Prepared by Martin Perron
Approved by Richard Guertin