



# **2020**

## **DRINKING WATER**

### **ANNUAL REPORT**

**Prepared by the Environmental Service  
January 1, 2020, to December 31, 2020, reporting period**



ANNUAL REPORT

<b>Drinking-Water System Number:</b>	177-101
<b>Drinking-Water System Name:</b>	Hawkesbury Drinking Water System
<b>Drinking-Water System Owner:</b>	Corporation of the Town of Hawkesbury
<b>Drinking-Water System Category:</b>	Large Municipal Residential System
<b>Period being reported:</b>	January 1, 2020, to December 31, 2020

<p><b><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></b></p> <p><b>Does your Drinking-Water System serve more than 10,000 people?</b> Yes [<input checked="" type="checkbox"/>] No [ <input type="checkbox"/> ]</p> <p><b>Is your annual report available to the public at no charge on a web site on the Internet?</b> Yes [<input checked="" type="checkbox"/>] No [ <input type="checkbox"/> ]</p> <p><b>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</b></p> <div style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> <li>- ENVIRONMENTAL DEPARTMENT</li> <li>- HAWKESBURY PUBLIC LIBRARY</li> <li>- WEB SITE: <a href="http://WWW.HAWKESBURY.CA">WWW.HAWKESBURY.CA</a></li> <li>- TOWNSHIP OF CHAMPLAIN</li> </ul> </div>	<p><b><u>Complete for all other Categories.</u></b></p> <p><b>Number of Designated Facilities served:</b></p> <div style="border: 1px solid black; padding: 5px; width: 100px;">n/a</div> <p><b>Did you provide a copy of your annual report to all Designated Facilities you serve?</b> Yes [ <input type="checkbox"/> ] No [ <input type="checkbox"/> ]</p> <p><b>Number of Interested Authorities you report to:</b></p> <div style="border: 1px solid black; padding: 5px; width: 100px;"> </div> <p><b>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?</b> 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 methods

**Describe your Drinking-Water System:**

The Corporation of the Town of Hawkesbury’s drinking water system serves 3,928 private residences in its own town and supplies water to 1,479 private residences in the Township of Champlain.

Drinking water is supplied by the Drinking Water Plant, which is owned and operated by the Corporation of the Town of Hawkesbury. The plant was built in 1953 and went through significant expansion and modernization in 1996-1997.

The key elements of Hawkesbury’s drinking water system are:

- A raw water pumping station,
- A water treatment plant,
- A water distribution system for the Town of Hawkesbury,
- A remote standpipe water storage in the Town of Hawkesbury complete with booster pumping system,
- A booster pumping station for the Town of Vankleek Hill,
- A distribution pipeline connection to supply the Village of L’Orignal, complete with metering chamber, and
- A distribution connection to Laurentian Park (Champlain), complete with metering chamber.

The raw water source for Hawkesbury is the Ottawa River. Water is drawn through the intake pipe from the low lift pumping station. Raw water flows into the drinking water plant where it undergoes a treatment process based on coagulation and flocculation followed by clarification and filtration.

Treated water then travels through over 35 km of water distribution piping system and is stored in a 5,450-m<sup>3</sup> standpipe water storage.



List all water treatment chemicals used over this reporting period:

- Aluminium Sulfate
- Aluminium hydroxide Sulfate
- Sodium Silicate
- Sodium Aluminate
- Liquid Chlorine (compressed gas)
- HydroFluosilicic Acid
- Zinc Orthophosphate
- Caustic Soda
- Sodium Hypochlorite

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
Security fence	19,000\$
Upgrade and maintenance of the heating system	20,000\$
Water treatment clarifier and filter upgrade design	540,000\$

WATER DISTRIBUTION MAIN EXPENSES	
DESCRIPTION	COST
Lafrance street extension	75 000 \$



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
January 22, 2020	Total coliforms	1	cfu/100mL	Re-sampling	January 23, 2020

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 #)
<b>Raw</b>	51	(0) – (71)	(2) – (108)	n/a	n/a
<b>Treated</b>	51	(0) – (0)	(0) – (0)	51	(2) – (4)
<b>Distribution</b>	321	(0) – (0)	(0) – (1)	153	(2) - (124)

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 #)
<b>Turbidity</b>	8784	(0.03) – (0.17) NTU
<b>Chlorine</b>	8784	(0.79) – (1.19) mg/l
<b>Fluoride</b>	8784	(0.41) – (0.71) mg/l
*Grab Samples = 24 samples/day x 365 days/year = 8760 (or 366 days/leap year = 8784)		

**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) – (8)	mg/L

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

Parameter	Sample Date	Result	Unit of Measure	Exceedance
Antimony	September 14, 2020	< 0.0001	mg/L	No
Arsenic	September 14, 2020	0.0002	mg/L	No
Barium	September 14, 2020	0.011	mg/L	No
Boron	September 14, 2020	0.006	mg/L	No
Cadmium	September 14, 2020	< 0.000015	mg/L	No
Chromium	September 14, 2020	< 0.002	mg/L	No
Mercury	September 14, 2020	0.00005	mg/L	No
Selenium	September 14, 2020	< 0.001	mg/L	No
Uranium	September 14, 2020	< 0.00005	mg/L	No
Nitrite	October 26, 2020	0.1	mg/L	No
Nitrate	October 26, 2020	0.4	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:**

Location Type	Number of Samples	Range of Lead Results (min#) – (max #)	Unit of Measure	Number of Exceedances
Plumbing	12	0.00002 - 0.00116	mg/L	None
Distribution	8	0.00005 - 0.00014	mg/L	None

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

Parameter	Sample Date	Result	Unit of Measure	Exceedance
Alachlor	September 14, 2020	< 0.3	µg /L	No
Atrazine + N-dealkylated metabolites	September 14, 2020	<0.05	µg /L	No
Azinphos-methyl	September 14, 2020	<1	µg /L	No
Benzene	September 14, 2020	<0.5	µg /L	No
Benzo(a)pyrene	September 14, 2020	<0.005	µg /L	No
Bromoxynil	September 14, 2020	<0.5	µg /L	No
Carbaryl	September 14, 2020	<3	µg /L	No
Carbofuran	September 14, 2020	<1	µg /L	No
Carbon Tetrachloride	September 14, 2020	<0.2	µg /L	No
Chlorpyrifos	September 14, 2020	<0.5	µg /L	No
Diazinon	September 14, 2020	<1	µg /L	No
Dicamba	September 14, 2020	<10	µg /L	No
1,2-Dichlorobenzene	September 14, 2020	<0.5	µg /L	No
1,4-Dichlorobenzene	September 14, 2020	<0.5	µg /L	No
1,2-Dichloroethane	September 14, 2020	<0.5	µg /L	No
1,1-Dichloroethylene (vinylidene chloride)	September 14, 2020	<0.5	µg /L	No
Dichloromethane	September 14, 2020	<5	µg /L	No
2-4 Dichlorophenol	September 14, 2020	<0.2	µg /L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	September 14, 2020	<10	µg /L	No
Diclofop-methyl	September 14, 2020	<0.9	µg /L	No
Dimethoate	September 14, 2020	<1	µg /L	No
Diquat	September 14, 2020	<5	µg /L	No
Diuron	September 14, 2020	<5	µg /L	No
Glyphosate	September 14, 2020	<25	µg /L	No
Haloacetic acids (latest annual average)	Each 2020 calendar quarter	34.2	µg /L	No
Malathion	September 14, 2020	<5	µg /L	No
MCPA	September 14, 2020	<10	µg /L	No
Metolachlor	September 14, 2020	<3	µg /L	No
Metribuzin	September 14, 2020	<3	µg /L	No
Monochlorobenzene	September 14, 2020	<0.5	µg /L	No
Paraquat	September 14, 2020	<1	µg /L	No
Pentachlorophenol	September 14, 2020	<0.2	µg /L	No
Phorate	September 14, 2020	<0.3	µg /L	No
Picloram	September 14, 2020	<15	µg /L	No
Polychlorinated Biphenyls (PCB)	September 14, 2020	<0.05	µg /L	No

Parameter	Sample Date	Result	Unit of Measure	Exceedance
Prometryne	September 14, 2020	<0.1	µg /L	No
Simazine	September 14, 2020	<0.5	µg /L	No
THM (latest annual average)	Each 2020 calendar quarter	54.9	µg /L	No
Terbufos	September 14, 2020	<0.5	µg /L	No
Tetrachloroethylene	September 14, 2020	<0.5	µg /L	No
2,3,4,6-Tetrachlorophenol	September 14, 2020	<0.2	µg /L	No
Triallate	September 14, 2020	<10	µg /L	No
Trichloroethylene	September 14, 2020	<0.5	µg /L	No
2,4,6-Trichlorophenol	September 14, 2020	<0.2	µg /L	No
Trifluralin	September 14, 2020	<0.5	µg /L	No
Vinyl Chloride	September 14, 2020	<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	Unit of Measure	Date of Sample
n/a	n/a	n/a	n/a

## AVAILABILITY OF REPORT

This report is available at the following locations:

- 1. Environmental Service Department**  
 Corporation of the Town of Hawkesbury  
 815 Main East  
 Hawkesbury (Ontario) K6A 1B5  
 (613) 678-9269
- 2. Hawkesbury Public Library**  
 550 Higginson Street  
 Hawkesbury, Ontario  
 K6A 1H1
- 3. Town's website** [www.hawkesbury.ca](http://www.hawkesbury.ca)





If the format of this document is inadequate, please contact the Clerk's office at 613-632-0106 extension 2226 and the municipality will provide, to the best of its abilities, the required assistance.

Additionally, a copy of this Annual Report will be forwarded to the Township of Champlain.

This 2020 Annual Report has been prepared on February 25, 2021 and has been endorsed by the Corporation of the Town of Hawkesbury Municipal Council on March 29, 2021.

*Nancy Beks*

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Prepared by  
Nancy Beks  
DWQMS rep.  
Corporation of the Town of Hawkesbury

*Martin Perron*

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Approved by  
Martin Perron  
Environmental Service Superintendent  
Corporation of the Town of Hawkesbury