

ANNUAL REPORT

Drinking-Water System Number:	220002832
Drinking-Water System Name:	Hawkesbury Water Treatment Plant
Drinking-Water System Owner:	Corporation of the Town of Hawkesbury
Drinking-Water System Category:	Large municipal residential system
Period being reported:	January 1, 2009 to December 31, 2009

<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 []</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 []</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;"> <ul style="list-style-type: none"> - Technical Services Department - Hawkesbury Public Library - Web site www.hawkesbury.ca - Township of Champlain </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 [] No []</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 [] No []</p>
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Note: For the following tables below, additional rows or columns may be added or an appendix may be attached to the report

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	

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 10,154 in Hawkesbury and a population of approximately 4,000 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 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 2,760 m³ potable water underground storage complete with related piping, controls, etc...
- Construction of new settling and decanting tanks for clarifier sludge and backwash wastewater.
- Supply and installation of 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 cubic metre elevated storage reservoir in our distribution system located on Spence Avenue.

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**
- **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

No major breakdown of equipment.
Only routine and preventive maintenance of equipment.

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
NIL	NIL	NIL	NIL	NIL	NIL

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	(1) (220)	(4) (6200)		
Treated	52	0	0		
Distribution	364	0	0		

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	0.14 – 0.43 NTU
Chlorine	8760	0.53 – 1.24 mg/L
Fluoride (If the DWS provides fluoridation)	8760	0.00 – 0.76 mg/L

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

NOTE: Record the unit of measure if it is not milligrams per litre.

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	25.05.09	<0.0001	mg/L	
Arsenic	25.05.09	0.0002	mg/L	
Barium	25.05.09	0.010	mg/L	
Boron	25.05.09	0.006	mg/L	
Cadmium	25.05.09	<0.00002	mg/L	
Chromium	25.05.09	<0.002	mg/L	
Lead	25.05.09	<0.00002	mg/L	
Mercury	25.05.09	<0.00002	mg/L	
Selenium	25.05.09	<0.0002	mg/L	
Sodium	25.05.09	3.6	mg/L	
Uranium	25.05.09	<0.00005	mg/L	
Fluoride	25.05.09	0.6	mg/L	
Nitrite	25.05.09	<0.1	mg/L	
Nitrate	25.05.09	0.3	mg/L	

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	25.05.09	<0.3	µg/L	
Aldicarb	25.05.09	<3	µg/L	
Aldrin + Dieldrin	25.05.09	<0.02	µg/L	
Atrazine + N-dealkylated metabolites	25.05.09	<0.5	µg/L	
Azinphos-methyl	25.05.09	<1	µg/L	
Bendiocarb	25.05.09	<3	µg/L	
Benzene	25.05.09	<0.5	µg/L	
Benzo(a)pyrene	25.05.09	<0.005	µg/L	
Bromoxynil	25.05.09	<0.3	µg/L	
Carbaryl	25.05.09	<3	µg/L	
Carbofuran	25.05.09	<1	µg/L	
Carbon Tetrachloride	25.05.09	<0.2	µg/L	
Chlordane (Total)	25.05.09	<0.04	µg/L	
Chlorpyrifos	25.05.09	<0.5	µg/L	
Cyanazine	25.05.09	<0.5	µg/L	
Diazinon	25.05.09	<1	µg/L	
Dicamba	25.05.09	<5	µg/L	
1,2-Dichlorobenzene	25.05.09	<0.1	µg/L	
1,4-Dichlorobenzene	25.05.09	<0.2	µg/L	

Dichlorodiphenyltrichloroethane (DDT) + metabolites	25.05.09	<0.1	µg/L	
1,2-Dichloroethane	25.05.09	<0.1	µg/L	
1,1-Dichloroethylene (vinylidene chloride)	25.05.09			
Dichloromethane	25.05.09	<0.3	µg/L	
2-4 Dichlorophenol	25.05.09	<0.1	µg/L	
2,4-Dichlorophenoxy acetic acid (2,4-D)	25.05.09	<5	µg/L	
Diclofop-methyl	25.05.09	<0.5	µg/L	
Dimethoate	25.05.09	<1	µg/L	
Dinoseb	25.05.09	<0.5	µg/L	
Diquat	25.05.09	<5	µg/L	
Diuron	25.05.09	<5	µg/L	
Glyphosate	25.05.09	<25	µg/L	
Heptachlor + Heptachlor Epoxide	25.05.09	<0.1	µg/L	
Lindane (Total)	25.05.09	<0.1	µg/L	
Malathion	25.05.09	<5	µg/L	
Methoxychlor	25.05.09	<0.1	µg/L	
Metolachlor	25.05.09	<3	µg/L	
Metribuzin	25.05.09	<3	µg/L	
Monochlorobenzene	25.05.09	<0.2	µg/L	
Paraquat	25.05.09	<1	µg/L	
Parathion	25.05.09	<3	µg/L	
Pentachlorophenol	25.05.09	<0.1	µg/L	
Phorate	25.05.09	<0.3	µg/L	
Picloram	25.05.09	<5	µg/L	
Polychlorinated Biphenyls(PCB)	25.05.09	<0.05	µg/L	
Prometryne	25.05.09	<0.1	µg/L	
Simazine	25.05.09	<0.5	µg/L	
THM (NOTE: show latest annual average)	25.05.09	53.9	µg/L	
Temphos	25.05.09	<10	µg/L	
Terbufos	25.05.09	<0.3	µg/L	
Tetrachloroethylene	25.05.09	<0.2	µg/L	
2,3,4,6-Tetrachlorophenol	25.05.09	<0.1	µg/L	
Triallate	25.05.09	<10	µg/L	
Trichloroethylene	25.05.09	<0.1	µg/L	
2,4,6-Trichlorophenol	25.05.09	<0.1	µg/L	
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	25.05.09	<10	µg/L	
Trifluralin	25.05.09	<0.5	µg/L	
Vinyl Chloride	25.05.09	<0.2	µg/L	

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

(Only if DWS category is large municipal residential, small municipal residential, large municipal non residential, non municipal year round residential, large non municipal non residential)