

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

<b>Drinking-Water System Number:</b>	220001245
<b>Drinking-Water System Name:</b>	Prescott Water
<b>Drinking-Water System Owner:</b>	Town of Prescott
<b>Drinking-Water System Category:</b>	Large Municipal Residential
<b>Period being reported:</b>	January 1 to December 31, 2014

<p><b><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></b></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes [ ] No [ x ]</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [ ] No [ x ]</p> <p>Location where Report required under O. Reg. 170/03 section 11 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">                 Available at the Municipal Office,                  360 Dibble Street West, Prescott, Ontario                  and on their website: <a href="http://www.prescott.ca">www.prescott.ca</a> </div>	<p><b><u>Complete for all other Categories.</u></b></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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**List Drinking-Water Systems, which receive all of their drinking water from your system:**

Township of Edwardsburgh

**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 [x] No [ ] N/A [ ]

**Indicate how you notified system users that your annual report is available, and is free of charge.**

- [x] Public access/notice via the web
- [x] 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**

The Town of Prescott's Drinking Water System consists of a direct filtration surface water treatment plant, a distribution system and an elevated storage tank. The raw water source is the St. Lawrence River. The intake pipe is located 126 meters offshore at the foot of Sophia Street. The treatment system consists of a low lift pumping station, four flocculation tanks, three dual media rapid filters, a clearwell storage area and four high lift pumps. The plant's design capacity is 8,200 m<sup>3</sup>/day.

**List all water treatment chemicals used over this reporting period**

Hydrofluorosilicic Acid was used at an average rate of 0.34 mg/L.  
 Aluminum Sulphate was used at an average rate of 11.84 mg/L.  
 Sodium Hypochlorite was used at an average rate of 2.07 mg/L.

**Were any significant expenses incurred to?**

- Install required equipment  
 Repair required equipment  
 Replace required equipment

**Describe**

Water tower cleaned & inspected  
 Replaced filter media  
 Replaced treated water chlorine, fluoride and pH analyzers  
 Replaced one high lift pump  
 Replaced raw water flow control valve/actuator

**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
Feb. 13/14	Low system pressure & insufficient chlorine contact time	n/a	n/a	Repair break, disinfect, collect samples.	Feb. 22/14

**Microbiological testing done under section 8 (2) during this reporting period**

	Number of Samples	Range of <i>E. coli</i> Results	Range of Total Coliform Results	Number of HPC Samples	Range of HPC Results
<b>Raw</b>	104	0 - 12	0 - >200	n/a	n/a
<b>Treated</b>	156	0-0	0-0	52	0-50
<b>Distribution</b>	481	0-0	0-0	52	0-20

**Operational testing done under Schedule 7, 8 or 9 during the period covered by this Annual Report.**

	Number of Grab Samples	Range of Results (min #)-(max #)
<b>Turbidity</b>	8760	0.04-2.99 NTU
<b>Chlorine</b>	8760	0.33-3.01 mg/L
<b>Fluoride</b>	8760	0.00-1.15 mg/L

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

**Summary of additional testing and sampling carried out in accordance with the requirement of an approval or order.**

Licence # 161-101	Parameter	Date Sampled	Result	Unit of Measure
March 30, 2010	Filter Backwash Supernatant	01/20/14	4	mg/L
	Filter Backwash Supernatant	02/24/14	9	mg/L
	Filter Backwash Supernatant	03/24/14	4	mg/L
	Filter Backwash Supernatant	04/07/14	<2	mg/L
	Filter Backwash Supernatant	05/26/14	5	mg/L
	Filter Backwash Supernatant	06/16/14	3	mg/L
	Filter Backwash Supernatant	07/14/14	3	mg/L
	Filter Backwash Supernatant	08/11/14	4	mg/L
	Filter Backwash Supernatant	09/15/14	4	mg/L
	Filter Backwash Supernatant	10/20/14	4	mg/L
	Filter Backwash Supernatant	11/21/14	3	mg/L
	Filter Backwash Supernatant	12/01/14	3	mg/L

**Summary of Inorganic parameters tested during this reporting period or most recent**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	01/20/2014	0.0001	mg / L	No
Arsenic	01/20/2014	0.0007	mg / L	No
Barium	01/20/2014	0.021	mg / L	No
Boron	01/20/2014	0.023	mg / L	No
Cadmium	01/20/2014	<0.00002	mg / L	No
Chromium	01/20/2014	<0.002	mg / L	No
*Lead	n/a	n/a	mg / L	No
Mercury	01/20/2014	<0.00002	mg / L	No
Selenium	01/20/2014	0.002	mg / L	No
Uranium	01/20/2014	0.00025	mg / L	No
Sodium	01/20/2014	15.4	mg / L	No
Nitrite	10/20/2014	<0.1	mg / L	No
Nitrate	10/20/2014	0.3	mg / L	No

\*exempt Schedule 15.2

**Summary of lead testing under Schedule 15.1 during this reporting period**

Location Type	Number of Samples	Range of Lead Results (min#) – (max #)	Number of Exceedances
Plumbing	n/a	n/a	n/a
Distribution	6	<0.001	0

**Summary of Organic parameters sampled during this reporting period or most recent**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	01/20/2014	<0.3	µg / L	No
Aldicarb	01/20/2014	<3	µg / L	No
Aldrin + Dieldrin	01/20/2014	<0.02	µg / L	No
Atrazine + N-dealkylated metabolites	01/20/2014	<0.5	µg / L	No
Azinphos-methyl	01/20/2014	<1	µg / L	No
Bendiocarb	01/20/2014	<3	µg / L	No
Benzene	01/20/2014	<0.5	µg / L	No
Benzo(a)pyrene	01/20/2014	<0.005	µg / L	No
Bromoxynil	01/20/2014	<0.3	µg / L	No
Carbaryl	01/20/2014	<3	µg / L	No
Carbofuran	01/20/2014	<1	µg / L	No
Carbon Tetrachloride	01/20/2014	<0.2	µg / L	No
Chlordane (Total)	01/20/2014	<0.04	µg / L	No
Chlorpyrifos	01/20/2014	<0.5	µg / L	No
Cyanazine	01/20/2014	<0.5	µg / L	No
Diazinon	01/20/2014	<1	µg / L	No
Dicamba	01/20/2014	<5	µg / L	No
1,2-Dichlorobenzene	01/20/2014	<0.1	µg / L	No
1,4-Dichlorobenzene	01/20/2014	<0.2	µg / L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	01/20/2014	<0.01	µg / L	No
1,2-Dichloroethane	01/20/2014	<0.1	µg / L	No
1,1-Dichloroethylene (vinylidene chloride)	01/20/2014	<0.1	µg / L	No

Dichloromethane	01/20/2014	<0.3	µg / L	No
2-4 Dichlorophenol	01/20/2014	<0.1	µg / L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	01/20/2014	<5	µg / L	No
Diclofop-methyl	01/20/2014	<0.5	µg / L	No
Dimethoate	01/20/2014	<1	µg / L	No
Dinoseb	01/20/2014	<0.5	µg / L	No
Diquat	01/20/2014	<5	µg / L	No
Diuron	01/20/2014	<5	µg / L	No
Glyphosate	01/20/2014	<25	µg / L	No
Heptachlor + Heptachlor Epoxide	01/20/2014	<0.1	µg / L	No
Lindane (Total)	01/20/2014	<0.1	µg / L	No
Malathion	01/20/2014	<5	µg / L	No
Methoxychlor	01/20/2014	<0.1	µg / L	No
Metolachlor	01/20/2014	<3	µg / L	No
Metribuzin	01/20/2014	<3	µg / L	No
Monochlorobenzene	01/20/2014	<0.2	µg / L	No
Paraquat	01/20/2014	<1	µg / L	No
Parathion	01/20/2014	<3	µg / L	No
Pentachlorophenol	01/20/2014	<0.1	µg / L	No
Phorate	01/20/2014	<0.3	µg / L	No
Picloram	01/20/2014	<5	µg / L	No
Polychlorinated Biphenyls(PCB)	01/20/2014	<0.05	µg / L	No
Promethyne	01/20/2014	<0.1	µg / L	No
Simazine	01/20/2014	<0.5	µg / L	No
THM Distribution Average	10/20/2014	39.0	µg / L	No
Temephos	01/20/2014	<10	µg / L	No
Terbufos	01/20/2014	<0.3	µg / L	No
Tetrachloroethylene	01/20/2014	<0.2	µg / L	No
2,3,4,6-Tetrachlorophenol	01/20/2014	<0.1	µg / L	No
Triallate	01/20/2014	<10	µg / L	No
Trichloroethylene	01/20/2014	<0.1	µg / L	No
2,4,6-Trichlorophenol	01/20/2014	<0.1	µg / L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	01/20/2014	<10	µg / L	No
Trifluralin	01/20/2014	<0.5	µg / L	No
Vinyl Chloride	01/20/2014	<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
n/a			