

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

Drinking-Water System Number:	220001067
Drinking-Water System Name:	ROPE WATER TREATMENT PLANT
Drinking-Water System Owner:	CORPORATION OF THE TOWNSHIP OF TAY
Drinking-Water System Category:	SMALL MUNICIPAL RESIDENTIAL
Period being reported:	JAN. 1, 2009 – DEC. 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 [] No [X]</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [X] 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;"> 450 Park Street Victoria Harbour, Ontario L0K 2A0 </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <div style="border: 1px solid black; padding: 2px; display: inline-block;">n/a</div> </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: <div style="border: 1px solid black; padding: 2px; display: inline-block;">n/a</div> </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
n/a	

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 [X]

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

The Rope Water Treatment Plant currently serves the Rope Subdivision which is located at 204 Ruta Road. The plant is a surface water treatment plant drawing water from the Severn Sound of Georgian Bay. The system features seasonal pre-chlorination for Zebra Mussel control followed by treatment consisting of chemically assisted filtration utilizing membrane filtration. Primary disinfection occurs by ultraviolet light with a secondary disinfection occurring in a post treatment contact chamber which doubles as a treated water pump well. The treated water is then pumped through the distribution system. This water system currently serves a population of approximately 60 people.

List all water treatment chemicals used over this reporting period

Polyaluminum chloride is used as the Coagulant. Sodium Hypochlorite is used as the secondary disinfectant. Sulfuric acid is currently used for pH adjustment. A change in chemical dosing is typical during changes in raw water quality, however no abnormal usages were experienced during the year.

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

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
N/A					

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 - 140	0 - 1240	0	0 - 0
Treated	52	0 - 0	0 - 0	52	0 - 520
Distribution	104	0 - 0	0 - 0	52	0 - 2

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	0.003 – 0.540
Chlorine	8760	Dist 0.32 – 2.20 Treated 0.40 – 1.86
Fluoride (If the DWS provides fluoridation)	N/A	N/A

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
Dec 23/05 3772-6KCLGQ	Aluminum-Treated Weekly Suspended Solids - Monthly Aluminum- Raw Quarterly	Weekly Weekly Weekly	73.7 Avg 45.19 Avg 10.96 Avg	ug/L mg/L mg/L
	UV Intensity UV Transmittance Flow Rate UV Lamp Status	Weekly	35.58 w/cm2 Min 94% Max 105% Avg 98%	watts/cm2 UVT%

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	Apr 6 2009	0.02	ug/L	No
Arsenic	Apr 6 2009	0.20	ug/L	No
Barium	Apr 6 2009	18.2	ug/L	No

Boron	Apr 6 2009	10.3	ug/L	No
Cadmium	Apr 6 2009	0.179	ug/L	No
Chromium	Apr 6 2009	0.60	ug/L	No
Lead	Apr 7 2009	0.26	ug/L	No
Mercury	Apr 6 2009	0.02	ug/L	No
Selenium	Apr 6 2009	1.00	ug/L	No
Sodium	Apr 6 2009	14.9	mg/L	No
Uranium	Apr 6 2009	0.074	ug/L	No
Fluoride	Apr 6 2009	0.060	mg/L	No
Nitrite	Apr 6 2009	0.005	mg/L	No
Nitrate	Apr 6 2009	0.135	mg/L	No

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	Apr 6 2009	0.11	ug/L	No
Aldicarb	Apr 6 2009	0.30	ug/L	No
Aldrin + Dieldrin	Apr 6 2009	0.067	ug/L	No
Atrazine + N-dealkylated metabolites	Apr 6 2009	0.12	ug/L	No
Azinphos-methyl	Apr 6 2009	0.21	ug/L	No
Bendiocarb	Apr 6 2009	0.13	ug/L	No
Benzene	Apr 6 2009	0.37	ug/L	No
Benzo(a)pyrene	Apr 6 2009	0.004	ug/L	No
Bromoxynil	Apr 6 2009	0.33	ug/L	No
Carbaryl	Apr 6 2009	0.16	ug/L	No
Carbofuran	Apr 6 2009	0.37	ug/L	No
Carbon Tetrachloride	Apr 6 2009	0.41	ug/L	No
Chlordane (Total)	Apr 6 2009	0.11	ug/L	No
Chlorpyrifos	Apr 6 2009	0.18	ug/L	No
Cyanazine	Apr 6 2009	0.18	ug/L	No
Diazinon	Apr 6 2009	0.081	ug/L	No
Dicamba	Apr 6 2009	0.20	ug/L	No
1,2-Dichlorobenzene	Apr 6 2009	0.50	ug/L	No
1,4-Dichlorobenzene	Apr 6 2009	0.21	ug/L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	Apr 6 2009	0.14	ug/L	No
1,2-Dichloroethane	Apr 6 2009	0.43	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	Apr 6 2009	0.41	ug/L	No
Dichloromethane	Apr 6 2009	0.34	ug/L	No
2-4 Dichlorophenol	Apr 6 2009	0.15	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Apr 6 2009	0.19	ug/L	No
Diclofop-methyl	Apr 6 2009	0.40	ug/L	No

Dimethoate	Apr 6 2009	0.12	ug/L	No
Dinoseb	Apr 6 2009	0.36	ug/L	No
Diquat	Apr 6 2009	1.00	ug/L	No
Diuron	Apr 6 2009	0.087	ug/L	No
Glyphosate	Apr 6 2009	6.00	ug/L	No
Heptachlor + Heptachlor Epoxide	Apr 6 2009	0.11	ug/L	No
Lindane (Total)	Apr 6 2009	0.056	ug/L	No
Malathion	Apr 6 2009	0.091	ug/L	No
Methoxychlor	Apr 6 2009	0.14	ug/L	No
Metolachlor	Apr 6 2009	0.092	ug/L	No
Metribuzin	Apr 6 2009	0.12	ug/L	No
Monochlorobenzene	Apr 6 2009	0.58	ug/L	No
Paraquat	Apr 6 2009	1.00	ug/L	No
Parathion	Apr 6 2009	0.18	ug/L	No
Pentachlorophenol	Apr 6 2009	0.15	ug/L	No
Phorate	Apr 6 2009	0.11	ug/L	No
Picloram	Apr 6 2009	0.25	ug/L	No
Polychlorinated Biphenyls(PCB)	Apr 6 2009	0.04	ug/L	No
Prometryne	Apr 6 2009	0.23	ug/L	No
Simazine	Apr 6 2009	0.15	ug/L	No
THM (NOTE: show Latest annual average)	Dec 14, 2009	79.00	ug/L	No
Temephos	Apr 6 2009	0.31	ug/L	No
Terbufos	Apr 6 2009	0.12	ug/L	No
Tetrachloroethylene	Apr 6 2009	0.45	ug/L	No
2,3,4,6-Tetrachlorophenol	Apr 6 2009	0.14	ug/L	No
Triallate	Apr 6 2009	0.10	ug/L	No
Trichloroethylene	Apr 6 2009	0.38	ug/L	No
2,4,6-Trichlorophenol	Apr 6 2009	0.25	ug/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	Apr 6 2009	0.22	ug/L	No
Trifluralin	Apr 6 2009	0.12	ug/L	No
Vinyl Chloride	Apr 6 2009	0.17	ug/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
THM	117 Annual Avg 105	ug/L	June 29, 2009