

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

## OPTIONAL ANNUAL REPORT TEMPLATE

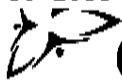
<b>Drinking-Water System Number:</b>	250001233
<b>Drinking-Water System Name:</b>	Haley Townsite Waterworks
<b>Drinking-Water System Owner:</b>	Township of Whitewater Region
<b>Drinking-Water System Category:</b>	Small Municipal Residential System
<b>Period being reported:</b>	January 01, 2010 to December 31, 2010

<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 Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px;"> <p>Township of Whitewater Region Municipal Office 44 Main Street Cobden, Ontario K0J1K0</p> </div>	<p><b><u>Complete for all other Categories.</u></b></p> <p>Number of Designated Facilities served:  <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px 0;"></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; width: 100px; height: 20px; margin: 5px 0;"></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
Haley Well Supply	250001233



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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

Upgrades to the Haley water system completed in 2008 include two new ground water drilled wells, using variable speed pumps, on the Heather Place site, a new building housing a new PLC panel, new pump controls and valve controls, new flush to waste system, new chlorination system, and new chlorine analyzer. A larger underground chlorine contact chamber and a new natural gas standby generator are located outside the building. The new fenced in plant serves 34 residences via a one kilometer distribution system. The distribution system was replaced in 2010.

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

Sodium Hypochlorite - Brenntag Canada Inc. - Sodium Hypochlorite 12 %

Were any significant expenses incurred to?

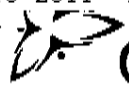
- Install required equipment  
 Repair required equipment  
 Replace required equipment

## Please provide a brief description and a breakdown of monetary expenses incurred

A new water distribution system was constructed at a cost of \$510,000.00

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 M/D/Y	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date D/M/Y
11/05/10	Loss of system pressure	0	PSI	Restored pressure, flushed mains, and issued boil water advisory	11/05/10



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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 Well #1	12	0 - 0	0 - 5		
Raw Well #2	12	0 - 0	0 - 0		
Distribution	33	0 - 0	0 - 0	29	< 1 - 194

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

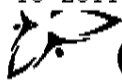
	Number of Grab Samples	Range of Results (min #)-(max #)
Turbidity Treated	8760	0.26 - 0.40 NTU
Chlorine Treated	8760	0.67 - 1.10 Mg/l
Chlorine Distribution	107	0.34 - 0.83 Mg/l

*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 M/D/Y	Result	Unit of Measure
Reg. 170/03	Well #1	01/06/10	0.39	NTU
"	Well #2	01/06/10	0.32	NTU
"	Well #1	02/02/10	0.40	NTU
"	Well #2	02/02/10	0.29	NTU
"	Well #1	03/02/10	0.72	NTU
"	Well #2	03/02/10	0.38	NTU
"	Well #1	04/13/10	0.44	NTU
"	Well #2	04/13/10	0.68	NTU
"	Well #1	05/06/10	0.40	NTU
"	Well #2	05/06/10	0.66	NTU
"	Well #1	06/08/10	0.28	NTU
"	Well #2	06/08/10	0.35	NTU
"	Well #1	07/08/10	0.37	NTU
"	Well #2	07/08/10	0.39	NTU
"	Well #1	08/03/10	0.43	NTU
"	Well #2	08/03/10	0.36	NTU
"	Well #1	09/13/10	0.58	NTU
"	Well #2	09/13/10	1.1	NTU
"	Well #1	10/12/10	0.35	NTU
"	Well #2	10/12/10	0.44	NTU
"	Well #1	11/15/10	0.39	NTU
"	Well #2	11/15/10	0.47	NTU
"	Well #1	12/13/10	0.31	NTU
"	Well #2	12/13/10	0.38	NTU



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

Parameter	Sample Date M/D/Y	Result Value	Unit of Measure	Exceedance
Antimony	01/06/09	< 0.0001	Mg/l	No
Arsenic	01/06/09	0.0011	Mg/l	No
Barium	01/06/09	0.442	Mg/l	No
Boron	01/06/09	0.011	Mg/l	No
Cadmium	01/06/09	0.00019	Mg/l	No
Chromium	01/06/09	< 0.002	Mg/l	No
*Lead	01/06/09		Mg/l	
Mercury	01/06/09	< 0.00002	Mg/l	No
Selenium	01/06/09	0.0011	Mg/l	No
Sodium	01/06/09	33.6	Mg/l	No
Uranium	01/06/09	0.00139	Mg/l	No
Fluoride	01/06/09	0.2	Mg/l	No
Nitrite	01/11/10	< 0.1	Mg/l	No
Nitrate	01/11/10	3.8	Mg/l	No
Nitrite	04/07/10	< 0.1	Mg/l	No
Nitrate	04/07/10	5.0	Mg/l	No
Nitrite	07/14/10	< 0.1	Mg/l	No
Nitrate	07/14/10	3.6	Mg/l	No
Nitrite	10/13/10	< 0.1	Mg/l	No
Nitrate	10/13/10	4.8	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

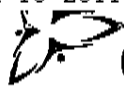
## Summary of lead testing under Schedule 15.1 during this reporting period

(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			
Distribution	2	0.00021 – 0.00057	None

## 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	01/06/09	< 0.3	Ug/l	No
Aldicarb	01/06/09	< 3	Ug/l	No
Aldrin + Dieldrin	01/06/09	< 0.02	Ug/l	No
Atrazine + N-dealkylated metabolites	01/06/09	< 0.5	Ug/l	No
Azinphos-methyl	01/06/09	< 1	Ug/l	No
Bendiocarb	01/06/09	< 3	Ug/l	No
Benzene	01/06/09	< 0.5	Ug/l	No
Benzo(a)pyrene	01/06/09	< 0.005	Ug/l	No



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Bromoxynil	01/06/09	< 0.3	Ug/l	No
Carbaryl	01/06/09	< 3	Ug/l	No
Carbofuran	01/06/09	< 1	Ug/l	No
Carbon Tetrachloride	01/06/09	< 0.2	Ug/l	No
Chlordane (Total)	01/06/09	< 0.04	Ug/l	No
Chlorpyrifos	01/06/09	< 0.5	Ug/l	No
Cyanazine	01/06/09	< 0.5	Ug/l	No
Diazinon	04/27/09	< 1	Ug/l	No
Dicamba	04/27/09	< 5	Ug/l	No
1,2-Dichlorobenzene	07/21/09	< 0.1	Ug/l	No
1,4-Dichlorobenzene	01/06/09	< 0.2	Ug/l	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	01/06/09	< 0.1	Ug/l	No
1,2-Dichloroethane	01/06/09	< 0.1	Ug/l	No
1,1-Dichloroethylene (vinylidene chloride)	01/06/09	< 0.1	Ug/l	No
Dichloromethane	01/06/09	< 0.3	Ug/l	No
2,4 Dichlorophenol	01/06/09	< 0.1	Ug/l	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	01/06/09	< 5	Ug/l	No
Diclofop-methyl	01/06/09	< 0.5	Ug/l	No
Dimethoate	01/06/09	< 1	Ug/l	No
Dinoseb	01/06/09	< 0.5	Ug/l	No
Diquat	01/06/09	< 5	Ug/l	No
Diuron	01/06/09	< 5	Ug/l	No
Glyphosate	01/06/09	< 25	Ug/l	No
Heptachlor + Heptachlor Epoxide	01/06/09	< 0.1	Ug/l	No
Lindane (Total)	04/27/09	< 0.1	Ug/l	No
Malathion	04/27/09	< 5	Ug/l	No
Methoxychlor	07/21/09	< 0.1	Ug/l	No
Metolachlor	01/06/09	< 3	Ug/l	No
Metribuzin	01/06/09	< 3	Ug/l	No
Monochlorobenzene	01/06/09	< 0.2	Ug/l	No
Paraquat	01/06/09	< 1	Ug/l	No
Parathion	01/06/09	< 3	Ug/l	No
Pentachlorophenol	01/06/09	< 0.1	Ug/l	No
Phorate	01/06/09	< 0.3	Ug/l	No
Picloram	01/06/09	< 5	Ug/l	No
Polychlorinated Biphenyls(PCB)	01/06/09	< 0.05	Ug/l	No
Prometryne	01/06/09	< 0.1	Ug/l	No
Simazine	01/06/09	< 0.5	Ug/l	No
THM (NOTE: show latest annual average)	10/13/10	11.3	Ug/l	No
Temephos	01/06/09	< 10	Ug/l	No
Terbufos	01/06/09	< 0.3	Ug/l	No
Tetrachloroethylene	01/06/09	< 0.2	Ug/l	No
2,3,4,6-Tetrachlorophenol	01/06/09	< 0.1	Ug/l	No
Triallate	01/06/09	< 10	Ug/l	No
Trichloroethylene	01/06/09	< 0.1	Ug/l	No
2,4,6-Trichlorophenol	01/06/09	< 0.1	Ug/l	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	01/06/09	< 10	Ug/l	No
Trifluralin	01/06/09	< 0.5	Ug/l	No
Vinyl Chloride	01/06/09	< 0.2	Ug/l	No

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**List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.**

<b>Parameter</b>	<b>Result Value</b>	<b>Unit of Measure</b>	<b>Date of Sample</b>

**February 25, 2011**

**David Simmons**

**For**

**Plants Department**

**Township of Whitewater region**