



**OPTIONAL ANNUAL REPORT TEMPLATE**

<b>Drinking-Water System Number:</b>	<b>220001518</b>
<b>Drinking-Water System Name:</b>	Sugarbush Water Supply
<b>Drinking-Water System Owner:</b>	Township of Oro-Medonte
<b>Drinking-Water System Category:</b>	Large Municipal Residential
<b>Period being reported:</b>	January 1, 2017 to December 31, 2017

<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? Yes [ ] No [X ]</b></p> <p><b>Is your annual report available to the public at no charge on a web site on the Internet? Yes [ X ] No [ ]</b></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;"> <p>Township of Oro-Medonte 148 Line 7 South Oro-Medonte, ON L0L 2E0 Tel: 705-487-2171</p> </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: 2px; width: fit-content;">None</div> <p><b>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [ ] No [ ]</b></p> <p><b>Number of Interested Authorities you report to:</b></p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">None</div> <p><b>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [ ] No [ ]</b></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:**

<b>Drinking Water System Name</b>	<b>Drinking Water System Number</b>
None	

**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 www.oro-medonte.ca
- 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 Notice in Open Session Staff Report to Council

**Describe your Drinking-Water System**

Sugarbush is serviced with 3-Phase, 600 Volt power. Sugarbush is a ground water system with three (3) wells with submersible pumps and each well has its own pumping station. Raw water enters the pumphouse and is treated with Sodium Hypochlorite and is then gravity-fed through the distribution system. The system is equipped with an alarm that monitors high/low pressure, high/low reservoir levels, AC failure and low well levels and pump failure. The distribution system consists of watermains ranging in size from 50mm to 200mm, forty-one (41) hydrants, forty-nine (49) valve boxes, four (4) sample stations, a booster station and a two (2) celled reservoir on Oneida Ave. with a capacity of 301.8 m<sup>3</sup>. The system has 124m of 350mm contact main on Huronwoods Drive from Well #1, 60m of 600mm contact main on Line 6 North for Well #2. Two (2) celled reservoir on Diamond Valley Drive with a 301.85 m<sup>3</sup> capacity provides a 15-minute contact time for Well #3. The water distribution system supplies water to residential homes. A Chlorine Residual Analyzer and Turbidimeter have been installed for continuous monitoring and recording a free chlorine residual and turbidity with a 24-hour alarm call out system.

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

Sodium Hypochlorite (liquid chlorine)

**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**

Replaced pipework at Well #2. Cost \$12,000



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
	None in 2016				

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	150	0	0	0	-
Treated	150	0	0	150	0-40
Distribution	114	0	0	114	0-230

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 #)	Unit of Measure	<i>NOTE: For continuous monitors use 8760 as the number of samples.</i>
Turbidity	8760	0.65-0.56	NTU	
Chlorine	8760	0.87-1.47	mg/l	
Fluoride (If the DWS provides fluoridation)	N/A	N/A	N/A	

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
None Required				

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	Jul. 28, 2015	0.02<MDL	ug/l	No
Arsenic	Jul. 28, 2015	0.2<MDL	ug/l	No
Barium	Jul. 28, 2015	45.4	ug/l	No
		38.0		
		47.7		
Boron	Jul. 28, 2015	6.9	ug/l	No
		6.6		
		5.9		



<b>Cadmium</b>	Jul. 28, 2015	0.011 0.003<MDL 0.008	ug/l	No
<b>Chromium</b>	Jul. 28, 2015	0.62 1.05 1.00	ug/l	No
<b>*Lead</b>	N/A	N/A	N/A	N/A
<b>Mercury</b>	Jul. 28, 2015	0.001<MDL	ug/l	No
<b>Selenium</b>	Jul. 28, 2015	0.17 0.16 0.20	ug/l	No
<b>Sodium</b>	Oct. 16, 2013	3.43	mg/l	No
<b>Uranium</b>	Jul. 28, 2015	0.851 0.336 0.384	ug/l	No
<b>Fluoride</b>	Oct. 16, 2013	0.07	mg/l	No
<b>Nitrite</b>	Oct. 31, 2017	0.003<MDL	mg/l	No
<b>Nitrate</b>	Oct. 31, 2017	0.167 0.708 1.01	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)

<b>Location Type</b>	<b>Number of Samples</b>	<b>Range of Lead Results (min#) – (max #)</b>	<b>Unit of Measure</b>	<b>Number of Exceedances</b>
<b>Plumbing</b>	0	N/A	N/A	0
<b>Distribution</b>	0	N/A Due 2018	N/A	0

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

<b>Parameter</b>	<b>Sample Date</b>	<b>Result Value</b>	<b>Unit of Measure</b>	<b>Exceedance</b>
<b>Alachlor</b>	Apr. 29, 2015	0.02<MDL	ug/l	No
<b>Aldicarb</b>	Apr. 29, 2015	0.01<MDL	ug/l	No
<b>Aldrin + Dieldrin</b>	Apr. 29, 2015	0.01<MDL	ug/l	No
<b>Atrazine + N-dealkylated metabolites</b>	Apr. 29, 2015	0.01<MDL	ug/l	No
<b>Azinphos-methyl</b>	Apr. 29, 2015	0.02<MDL	ug/l	No
<b>Bendiocarb</b>	Apr. 29, 2015	0.01<MDL	ug/l	No
<b>Benzene</b>	Apr. 29, 2015	0.32<MDL	ug/l	No

<b>Benzo(a)pyrene</b>	Apr. 29, 2015	0.004<MDL	ug/l	No
<b>Bromoxynil</b>	Apr. 29, 2015	0.33<MDL	ug/l	No
<b>Carbaryl</b>	Apr. 29, 2015	0.01<MDL	ug/l	No
<b>Carbofuran</b>	Apr. 29, 2015	0.01<MDL	ug/l	No
<b>Carbon Tetrachloride</b>	Apr. 29, 2015	0.16<MDL	ug/l	No
<b>Chlordane (Total)</b>	Apr. 29, 2015	0.01<MDL	ug/l	No
<b>Chlorpyrifos</b>	Apr. 29, 2015	0.02<MDL	ug/l	No
<b>Cyanazine</b>	Apr. 29, 2015	0.03<MDL	ug/l	No
<b>Diazinon</b>	Apr. 29, 2015	0.02<MDL	ug/l	No
<b>Dicamba</b>	Apr. 29, 2015	0.20<MDL	ug/l	No
<b>1,2-Dichlorobenzene</b>	Apr. 29, 2015	0.41<MDL	ug/l	No
<b>1,4-Dichlorobenzene</b>	Apr. 29, 2015	0.36<MDL	ug/l	No
<b>Dichlorodiphenyltrichloroethane (DDT) + metabolites</b>	Apr. 29, 2015	0.01<MDL	ug/l	No
<b>1,2-Dichloroethane</b>	Apr. 29, 2015	0.35<MDL	ug/l	No
<b>1,1-Dichloroethylene (vinylidene chloride)</b>	Apr. 29, 2015	0.33<MDL	ug/l	No
<b>Dichloromethane</b>	Apr. 29, 2015	0.35<MDL	ug/l	No
<b>2,4 Dichlorophenol</b>	Apr. 29, 2015	0.15<MDL	ug/l	No
<b>2,4-Dichlorophenoxy acetic acid (2,4-D)</b>	Apr. 29, 2015	0.19<MDL	ug/l	No
<b>Diclofop-methyl</b>	Apr. 29, 2015	0.40<MDL	ug/l	No
<b>Dimethoate</b>	Apr. 29, 2015	0.03<MDL	ug/l	No
<b>Dinoseb</b>	Apr. 29, 2015	0.36<MDL	ug/l	No
<b>Diquat</b>	Apr. 29, 2015	1<MDL	ug/l	No
<b>Diuron</b>	Apr. 29, 2015	0.02<MDL	ug/l	No
<b>Glyphosate</b>	Apr. 29, 2015	6<MDL	ug/l	No
<b>Heptachlor + Heptachlor Epoxide</b>	Apr. 29, 2015	0.01<MDL	ug/l	No
<b>Lindane (Total)</b>	Apr. 29, 2015	0.01<MDL	ug/l	No
<b>Malathion</b>	Apr. 29, 2015	0.02<MDL	ug/l	No
<b>Methoxychlor</b>	Apr. 29, 2015	0.01<MDL	ug/l	No
<b>Metolachlor</b>	Apr. 29, 2015	0.01<MDL	ug/l	No
<b>Metribuzin</b>	Apr. 29, 2015	0.02<MDL	ug/l	No
<b>Monochlorobenzene</b>	Apr. 29, 2015	0.3<MDL	ug/l	No
<b>Paraquat</b>	Apr. 29, 2015	1<MDL	ug/l	No
<b>Parathion</b>	Apr. 29, 2015	0.02<MDL	ug/l	No
<b>Pentachlorophenol</b>	Apr. 29, 2015	0.15<MDL	ug/l	No
<b>Phorate</b>	Apr. 29, 2015	0.01<MDL	ug/l	No
<b>Picloram</b>	Apr. 29, 2015	0.25<MDL	ug/l	No
<b>Polychlorinated Biphenyls(PCB)</b>	Apr. 29, 2015	0.04<MDL	ug/l	No
<b>Prometryne</b>	Apr. 29, 2015	0.03<MDL	ug/l	No
<b>Simazine</b>	Apr. 29, 2015	0.01<MDL	ug/l	No



<b>THM</b> (NOTE: show latest annual average)	Jan. 31, 2017 Apr. 25, 2017 July 19, 2017 Oct. 31, 2017	2.5	ug/l	No
<b>HAA</b> (NOTE: show latest annual average)	Jan. 31, 2017 Apr. 25, 2017 July 19, 2017 Oct. 31, 2017	5.3<MDL	ug/l	No
<b>Temephos</b>	Apr. 29, 2015	0.01<MDL	ug/l	No
<b>Terbufos</b>	Apr. 29, 2015	0.01<MDL	ug/l	No
<b>Tetrachloroethylene</b>	Apr. 29, 2015	0.35<MDL	ug/l	No
<b>2,3,4,6-Tetrachlorophenol</b>	Apr. 29, 2015	0.14<MDL	ug/l	No
<b>Triallate</b>	Apr. 29, 2015	0.01<MDL	ug/l	No
<b>Trichloroethylene</b>	Apr. 29, 2015	0.44<MDL	ug/l	No
<b>2,4,6-Trichlorophenol</b>	Apr. 29, 2015	0.25<MDL	ug/l	No
<b>2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)</b>	Apr. 29, 2015	0.22<MDL	ug/l	No
<b>Trifluralin</b>	Apr. 29, 2015	0.02<MDL	ug/l	No
<b>Vinyl Chloride</b>	Apr. 29, 2015	0.17<MDL	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
None			