



OPTIONAL ANNUAL REPORT TEMPLATE

<b>Drinking-Water System Number:</b>	220008140
<b>Drinking-Water System Name:</b>	Barwick Well Supply
<b>Drinking-Water System Owner:</b>	Corporation of the Township of Chapple
<b>Drinking-Water System Category:</b>	Small Municipal Residential System
<b>Period being reported:</b>	January 1, 2016 to December 31, 2016

<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 [ X ] No [ ]</p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <table border="1" style="width: 100%;"> <tr> <td>Chapple Municipal Office Chapple Water Treatment Plant</td> </tr> </table>	Chapple Municipal Office Chapple Water Treatment Plant	<p><b><u>Complete for all other Categories.</u></b></p> <p>Number of Designated Facilities served: <input 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 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>
Chapple Municipal Office Chapple Water Treatment Plant		

**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

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 Newsletter\_\_\_\_\_

**Describe your Drinking-Water System**

Ground water treatment plant with softening, coagulation, flocculation, sedimentation, filtration, chlorination and pH adjustment

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

Lime, Carbon Dioxide gas, and 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**

- Well # 5 – New Pump complete wet end and motor
- Well # 1 – New Wet end put on existing motor

**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
Sept 21/16	Sodium	49.6	Mg/l	Resample	Sept 28/16

**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 #)
<b>Raw</b>	38	37 – Absent 1 - Present	31 – Absent 7 – Present		
<b>Treated</b>					
<b>Distribution</b>	26	Absent	Absent	25	0 - 4

**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>
<b>Turbidity</b>	<b>8760</b>	<b>0.018 – 0.163</b>	<b>NTU</b>	
<b>Chlorine</b>	<b>8760</b>	<b>0.44 – 1.24</b>	<b>Mg/l</b>	
<b>Fluoride</b> (If the DWS provides fluoridation)				

**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

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
<b>Antimony</b>	<b>Nov 16/15</b>	<b>&lt;0.60</b>	<b>Ug/l</b>	<b>No</b>
<b>Arsenic</b>	<b>Nov 16/15</b>	<b>&lt;1</b>	<b>Ug/l</b>	<b>No</b>
<b>Barium</b>	<b>Nov 16/15</b>	<b>&lt;10</b>	<b>Ug/l</b>	<b>No</b>
<b>Boron</b>	<b>Nov 16/15</b>	<b>108</b>	<b>Ug/l</b>	<b>No</b>
<b>Cadmium</b>	<b>Nov 16/15</b>	<b>&lt;0.1</b>	<b>Ug/l</b>	<b>No</b>
<b>Chromium</b>	<b>Nov 16/15</b>	<b>&lt;1.0</b>	<b>Ug/l</b>	<b>No</b>
<b>*Lead</b>				
<b>Mercury</b>	<b>Nov 16/15</b>	<b>&lt;0.10</b>	<b>Ug/l</b>	<b>No</b>
<b>Selenium</b>	<b>Nov 16/15</b>	<b>&lt;1.0</b>	<b>Ug/l</b>	<b>No</b>
<b>Sodium</b>	<b>Sept 21/16</b>	<b>49.6</b>	<b>Mg/l</b>	<b>Yes</b>
<b>Uranium</b>	<b>Nov 16/15</b>	<b>&lt;2.0</b>	<b>Ug/l</b>	<b>No</b>
<b>Fluoride</b>	<b>Mar 9/15</b>	<b>0.053</b>	<b>Mg/l</b>	<b>No</b>



<b>Nitrite</b>	<b>Dec 12 /16</b>	<b>&lt;0.010</b>	<b>Mg/l</b>	<b>No</b>
<b>Nitrate</b>	<b>Dec 12 /16</b>	<b>0.115</b>	<b>Mg/l</b>	<b>No</b>

\*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>				
<b>Distribution</b>	<b>2</b>	<b>&lt;1.0</b>	<b>Ug/l</b>	<b>0</b>

**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>	<b>Mar 7/16</b>	<b>&lt;0.1</b>	<b>Ug/l</b>	<b>No</b>
<b>Aldicarb – Removed Jan 1 2016</b>				
<b>Aldrin + Dieldrin – Removed Jan 1 2016</b>				
<b>Atrazine + N-dealkylated metabolites</b>	<b>Mar 7/16</b>	<b>&lt;0.20</b>	<b>Ug/l</b>	<b>No</b>
<b>Azinphos-methyl</b>	<b>Mar 7/16</b>	<b>&lt;0.10</b>	<b>Ug/l</b>	<b>No</b>
<b>Bendiocarb – Removed Jan 1 2016</b>				
<b>Benzene</b>	<b>Mar 7/16</b>	<b>&lt;0.50</b>	<b>Ug/l</b>	<b>No</b>
<b>Benzo(a)pyrene</b>	<b>Mar 7/16</b>	<b>&lt;0.010</b>	<b>Ug/l</b>	<b>No</b>
<b>Bromoxynil</b>	<b>Mar 7/16</b>	<b>&lt;0.20</b>	<b>Ug/l</b>	<b>No</b>
<b>Carbaryl</b>	<b>Mar 7/16</b>	<b>&lt;0.20</b>	<b>Ug/l</b>	<b>No</b>
<b>Carbofuran</b>	<b>Mar 7/16</b>	<b>&lt;0.20</b>	<b>Ug/l</b>	<b>No</b>
<b>Carbon Tetrachloride</b>	<b>Mar 7/16</b>	<b>&lt;0.50</b>	<b>Ug/l</b>	<b>No</b>
<b>Chlordane (Total) – Removed Jan 1 2016</b>				
<b>Chlorpyrifos</b>	<b>Mar 7/16</b>	<b>&lt;0.10</b>	<b>Ug/l</b>	<b>No</b>
<b>Cyanazine – Removed Jan 1 2016</b>				
<b>Diazinon</b>	<b>Mar 7/16</b>	<b>&lt;0.10</b>	<b>Ug/l</b>	<b>No</b>
<b>Dicamba</b>	<b>Mar 7/16</b>	<b>&lt;0.20</b>	<b>Ug/l</b>	<b>No</b>
<b>1,2-Dichlorobenzene</b>	<b>Mar 7/16</b>	<b>&lt;0.50</b>	<b>Ug/l</b>	<b>No</b>
<b>1,4-Dichlorobenzene</b>	<b>Mar 7/16</b>	<b>&lt;0.50</b>	<b>Ug/l</b>	<b>No</b>
<b>Dichlorodiphenyltrichloroethane (DDT) + metabolites – Removed Jan 1 2016</b>				
<b>1,2-Dichloroethane</b>	<b>Mar 7/16</b>	<b>&lt;0.50</b>	<b>Ug/l</b>	<b>No</b>
<b>1,1-Dichloroethylene (vinylidene chloride)</b>	<b>Mar 7/16</b>	<b>&lt;0.50</b>	<b>Ug/l</b>	<b>No</b>
<b>Dichloromethane</b>	<b>Mar 7/16</b>	<b>&lt;5.0</b>	<b>Ug/l</b>	<b>No</b>
<b>2,4 Dichlorophenol</b>	<b>Mar 7/16</b>	<b>&lt;0.30</b>	<b>Ug/l</b>	<b>No</b>
<b>2,4-Dichlorophenoxy acetic acid (2,4-D)</b>	<b>Mar 7/16</b>	<b>&lt;0.20</b>	<b>Ug/l</b>	<b>No</b>



Diclofop-methyl	Mar 7/16	<0.20	Ug/l	No
Dimethoate	Mar 7/16	<0.10	Ug/l	No
Dinoseb – Removed Jan 1 2016				
Diquat	Mar 7/16	<1.0	Ug/l	No
Diuron	Mar 7/16	<1.0	Ug/l	No
Glyphosate	Mar 7/16	<5.0	Ug/l	No
Heptachlor + Heptachlor Epoxide – Removed Jan 1 2016				
Lindane (Total) – Removed Jan 1 2016				
Malathion	Mar 7/16	<0.10	Ug/l	No
Methoxychlor – Removed Jan 1 2016				
Metolachlor	Mar 7/16	<0.10	Ug/l	No
Metribuzin	Mar 7/16	<0.10	Ug/l	No
Monochlorobenzene	Mar 7/16	<0.50	Ug/l	No
Paraquat	Mar 7/16	<1.0	Ug/l	No
Parathion – Removed Jan 1 2016				
Pentachlorophenol	Mar 7/16	<0.50	Ug/l	No
Phorate	Mar 7/16	<0.10	Ug/l	No
Picloram	Mar 7/16	<0.20	Ug/l	No
Polychlorinated Biphenyls(PCB)	Mar 7/16	<0.035	Ug/l	No
Prometryne	Mar 7/16	<0.10	Ug/l	No
Simazine	Mar 7/16	<0.10	Ug/l	No
THM (NOTE: show latest annual average)	2016 Average	59.52	Ug/l	No
Temephos – Removed Jan 1 2016				
Terbufos	Mar 7/16	<0.20	Ug/l	No
Tetrachloroethylene	Mar 7/16	<0.50	Ug/l	No
2,3,4,6-Tetrachlorophenol	Mar 7/16	<0.50	Ug/l	No
Triallate	Mar 7/16	<0.10	Ug/l	No
Trichloroethylene	Mar 7/16	<0.50	Ug/l	No
2,4,6-Trichlorophenol	Mar 7/16	<0.50	Ug/l	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T) – Removed Jan 1 2016				
Trifluralin	Mar 7/16	<0.10	Ug/l	No
Vinyl Chloride	Mar 7/16	<0.20	Ug/l	No
MCPA – New Jan 1 2016	Mar 7/16	<0.20	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
Sodium	49.6	Mg/l	Sept 21, 2016