



OPTIONAL ANNUAL REPORT TEMPLATE

Drinking-Water System Number:	260002551
Drinking-Water System Name:	Bothwell Distribution System
Drinking-Water System Owner:	Municipality of Chatham-Kent
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1 - December 31, 2015

Complete if your Category is Large Municipal Residential or Small Municipal Residential

Complete for all other Categories.

<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;"> <p>Chatham-Kent P.U.C. Office 325 Grand Ave., East P.O. Box 1191 Chatham, Ontario N7M 5L8</p> </div>	<p>Number of Designated Facilities served:</p> <div style="border: 1px solid black; padding: 2px; width: 100px; text-align: center;">N/A</div> <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:</p> <div style="border: 1px solid black; padding: 2px; width: 100px; text-align: center;">N/A</div> <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
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
- 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 Bothwell Distribution System receives treated water from the West Lorne Water System. The source of the raw water for the West Lorne System is Lake Erie. This water supply system consists of the West Elgin Water Treatment Plant, which is located south of the settlement of Eagle along the Lake Erie shoreline in the Municipality of West Elgin. Water is transported from West Lorne to Newbury, Glencoe, Bothwell, Melbourne and rural areas by the Glencoe pipeline. A pumping station at the Glencoe reservoir pumps directly to Mosa Township, Newbury and the Bothwell elevated tower. Water is stored in the Bothwell elevated tower to supply the Bothwell Distribution System.

List all water treatment chemicals used over this reporting period

Sodium Hypochlorite

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

Replacement of turbidimeter \$6,000

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					



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 #)
Tower Inlet	52	0 - 0	0 - 0	52	<10 - 40
Distribution	260	0 - 0	0 - 0	260	<10 - 320

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	N/A	
Chlorine	370	0.37 – 1.32
Fluoride (If the DWS provides fluoridation)	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
None				

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

Parameter	Sample Date Jan 22/15	Sample Date Apr21/15	Sample Date Jul 21/15	Sample Date Oct 19/15	Exceedance
Antimony	N/A	N/A	N/A	N/A	N/A
Arsenic	N/A	N/A	N/A	N/A	N/A
Barium	N/A	N/A	N/A	N/A	N/A
Boron	N/A	N/A	N/A	N/A	N/A
Cadmium	N/A	N/A	N/A	N/A	N/A
Chromium	N/A	N/A	N/A	N/A	N/A
*Lead	N/A	N/A	N/A	N/A	N/A
Mercury	N/A	N/A	N/A	N/A	N/A
Selenium - ug/L	ND	N/A	N/A	N/A	No
Sodium - ug/L	12000	N/A	N/A	N/A	No



Total Ammonia - mg/L	ND	ND	ND	ND	No
Dissolved Organic Carbon – mg/L	1.9	2.0	1.9	1.7	No
Turbidity - NTU	ND	ND	ND	0.7	No
Uranium – ug/L	N/A	N/A	N/A	N/A	N/A
Fluoride mg/L	0.12	N/A	N/A	N/A	No
Nitrite mg/L	ND	ND	ND	ND	No
Nitrate – mg/L	ND	0.25	0.15	ND	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 ug/L (min#) – (max #)	Number of Exceedances / Adverses
Residential	N/A		
Non-Residential	N/A		
Distribution	2	ND	

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

Parameter	Sample Date Jan 28/15	Sample Date Apr 21/15	Sample Date Jul 21/15	Sample Date Oct 19/15	Exceedance
Alachlor	N/A	N/A	N/A	N/A	N/A
Aldicarb	N/A	N/A	N/A	N/A	N/A
Aldrin + Dieldrin	N/A	N/A	N/A	N/A	N/A
Atrazine + N-dealkylated metabolites	N/A	N/A	N/A	N/A	N/A
Azinphos-methyl	N/A	N/A	N/A	N/A	N/A
Bendiocarb	N/A	N/A	N/A	N/A	N/A
Benzene	N/A	N/A	N/A	N/A	N/A
Benzo(a)pyrene	N/A	N/A	N/A	N/A	N/A
Bromoxynil	N/A	N/A	N/A	N/A	N/A
Carbaryl	N/A	N/A	N/A	N/A	N/A
Carbofuran	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	N/A	N/A	N/A	N/A	N/A
Chlordane (Total)	N/A	N/A	N/A	N/A	N/A
Chlorpyrifos	N/A	N/A	N/A	N/A	N/A
Cyanazine	N/A	N/A	N/A	N/A	N/A
Diazinon	N/A	N/A	N/A	N/A	N/A
Dicamba	N/A	N/A	N/A	N/A	N/A
1,2-Dichlorobenzene	N/A	N/A	N/A	N/A	N/A



1,4-Dichlorobenzene	N/A	N/A	N/A	N/A	N/A
Dichlorodiphenyltrichloroethane (DDT) + metabolites	N/A	N/A	N/A	N/A	N/A
1,2-Dichloroethane	N/A	N/A	N/A	N/A	N/A
1,1-Dichloroethylene (vinylidene chloride)	N/A	N/A	N/A	N/A	N/A
Dichloromethane	N/A	N/A	N/A	N/A	N/A
2-4 Dichlorophenol	N/A	N/A	N/A	N/A	N/A
2,4-Dichlorophenoxy acetic acid (2,4-D)	N/A	N/A	N/A	N/A	N/A
Diclofop-methyl	N/A	N/A	N/A	N/A	N/A
Dimethoate	N/A	N/A	N/A	N/A	N/A
Dinoseb	N/A	N/A	N/A	N/A	N/A
Diquat	N/A	N/A	N/A	N/A	N/A
Diuron	N/A	N/A	N/A	N/A	N/A
Glyphosate	N/A	N/A	N/A	N/A	N/A
Heptachlor + Heptachlor Epoxide	N/A	N/A	N/A	N/A	N/A
Lindane (Total)	N/A	N/A	N/A	N/A	N/A
Malathion	N/A	N/A	N/A	N/A	N/A
Methoxychlor	N/A	N/A	N/A	N/A	N/A
Metolachlor	N/A	N/A	N/A	N/A	N/A
Metribuzin	N/A	N/A	N/A	N/A	N/A
Monochlorobenzene	N/A	N/A	N/A	N/A	N/A
Paraquat	N/A	N/A	N/A	N/A	N/A
Parathion	N/A	N/A	N/A	N/A	N/A
Pentachlorophenol	N/A	N/A	N/A	N/A	N/A
Phorate	N/A	N/A	N/A	N/A	N/A
Picloram	N/A	N/A	N/A	N/A	N/A
Polychlorinated Biphenyls(PCB)	N/A	N/A	N/A	N/A	N/A
Prometryne	N/A	N/A	N/A	N/A	N/A
Simazine	N/A	N/A	N/A	N/A	N/A
THM – Jan., April, July, Oct. – ug/L	47.9	56.4	84.4	111	No
THM Annual Average – ug/L				74.9	
Temephos	N/A	N/A	N/A	N/A	N/A
Terbufos	N/A	N/A	N/A	N/A	N/A
Tetrachloroethylene	N/A	N/A	N/A	N/A	N/A
2,3,4,6-Tetrachlorophenol	N/A	N/A	N/A	N/A	N/A
Triallate	N/A	N/A	N/A	N/A	N/A
Trichloroethylene	N/A	N/A	N/A	N/A	N/A
2,4,6-Trichlorophenol	N/A	N/A	N/A	N/A	N/A
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	N/A	N/A	N/A	N/A	N/A
Trifluralin	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	N/A	N/A	N/A	N/A	N/A



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
THMs	74.9	ug/L	Running Annual Average

Summary of additional voluntary testing and sampling on treated water.

Sample Date	Parameter	Result	Unit of Measure
None			