



**OPTIONAL ANNUAL REPORT TEMPLATE**

<b>Drinking-Water System Number:</b>	260024999
<b>Drinking-Water System Name:</b>	South Chatham-Kent Water Treatment Plant
<b>Drinking-Water System Owner:</b>	Municipality of Chatham-Kent
<b>Drinking-Water System Category:</b>	Large Municipal Residential
<b>Period being reported:</b>	January - December 2008

<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 [X] No [ ]</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 PUC Office 325 Grand Ave E Box 1191 Chatham, ON N7M 5L8</p> </div>	<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>
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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 South Chatham-Kent WTP has replaced both the Erie Beach-Erieau Water System and the Blenheim Area Water System. This plant began operations May 08, 2003. The system is a Dual Train Membrane Filtration System supplied by US Filter/Memcor and has 6 micro filtration units, each equipped with hollow fiber membrane modules. The system automatically backwashes when the filters become plugged. Granular activated carbon filters are used seasonally for taste and odor control. Chlorine gas is used for disinfection, and hydrofluorosilicic acid is also added as an aid in prevention of tooth decay.

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

1. Chlorine Gas
2. Hydrofluorosilicic Acid

**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**

Low lift # 6 pump assembly repair: \$68,000  
Blenheim reservoir concrete repair: \$10,000  
Back-up US Filter SCADA computer: \$15,000  
Spare radios for communication between facilities: \$15,000



**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
Feb 27	Lead	16	ug/l	Resampled	March 3
Aug 6	Total Coliform	6	CFU/100mL	Flushing Resampled	Aug 6 & 7

**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>	53	0 - 70	0 - 1020	1	>2000
<b>Treated</b>	54	0 - 0	0 - 0	53	<10 - 180
<b>Distribution</b>	466	0 - 0	0 - 6	157	<10 - 110

**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 #)
<b>Turbidity</b>	<b>8760</b>	0.042 - 0.270
<b>Chlorine</b>	<b>8760</b>	0.80 - 2.08
<b>Fluoride</b> (If the DWS provides fluoridation)	<b>8760</b>	0.51 - 0.79

***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 2008	Result	Unit of Measure
C of A 3531-6HDQ3C	Monthly Backwash Suspended Solids	Jan 07	100	mg/L
		Feb 11	14	
		Mar 19	<10	
		Apr 14	28	
		May 12	<10	
		Jun 09	15	
		Jul 3	3	
		Aug 10	10	
		Sept 8	10	
		Oct 6	10	
		Nov 10	10	
		Dec 15	<10	

**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>	Jan 7	<0.5	ug/L	No
<b>Arsenic</b>	Jan 7	1.0	ug/L	No
<b>Barium</b>	Jan 7	17.0	ug/L	No
<b>Boron</b>	Jan 7	24.0	ug/L	No
<b>Cadmium</b>	Jan 7	<0.1	ug/L	No
<b>Chromium</b>	Jan 7	<5.0	ug/L	No
<b>*Lead</b>	See Schedule 15.1 Summary			
<b>Mercury</b>	Jan 7	<0.0001	mg/L	No
<b>Selenium</b>	Jan 7	<2.0	ug/L	No
<b>Sodium</b>	Feb 24 '05	9.6	mg/L	No
<b>Uranium</b>	Jan 7	0.3	ug/L	No
<b>Fluoride</b>	Continuous Monitoring Required See Operational Section			
<b>Nitrite</b>	Oct 6	<0.01	mg/L	No
<b>Nitrate</b>	Oct 6	0.1	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 ug/L (min#) – (max #)	Number of Exceedances / Adverses
Residential	242	<0.50 - 54.00	1
Non-Residential	24	<0.50 - 3.40	0
Distribution	28	<0.50 - 16.00	1

**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	Jan 7	<0.50	ug/L	No
Aldicarb	Jan 7	<5.0	ug/L	No
Aldrin + Dieldrin	Jan 7	<0.01	ug/L	No
Atrazine + N-dealkylated metabolites	Jan 7	<1.0	ug/L	No
Azinphos-methyl	Jan 7	<2.0	ug/L	No
Bendiocarb	Jan 7	<2.0	ug/L	No
Benzene	Jan 7	<0.1	ug/L	No
Benzo(a)pyrene	Jan 7	<0.009	ug/L	No
Bromoxynil	Jan 7	<0.5	ug/L	No
Carbaryl	Jan 7	<5.0	ug/L	No
Carbofuran	Jan 7	<5.0	ug/L	No
Carbon Tetrachloride	Jan 7	<0.1	ug/L	No
Chlordane (Total)	Jan 7	<0.01	ug/L	No
Chlorpyrifos	Jan 7	<1.0	ug/L	No
Cyanazine	Jan 7	<1.0	ug/L	No
Diazinon	Jan 7	<1.0	ug/L	No
Dicamba	Jan 7	<1.0	ug/L	No
1,2-Dichlorobenzene	Jan 7	<0.2	ug/L	No
1,4-Dichlorobenzene	Jan 7	<0.2	ug/L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	Jan 7	<0.02	ug/L	No
1,2-Dichloroethane	Jan 7	<0.1	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	Jan 7	<0.1	ug/L	No
Dichloromethane	Jan 7	<0.5	ug/L	No
2-4 Dichlorophenol	Jan 7	<0.5	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Jan 7	<1.0	ug/L	No
Diclofop-methyl	Jan 7	<0.9	ug/L	No
Dimethoate	Jan 7	<3.0	ug/L	No
Dinoseb	Jan 7	<1.0	ug/L	No
Diquat	Jan 7	<7.0	ug/L	No
Diuron	Jan 7	<10.0	ug/L	No
Glyphosate	Jan 7	<10.0	ug/L	No
Heptachlor + Heptachlor Epoxide	Jan 7	<0.01	ug/L	No
Lindane (Total)	Jan 7	<0.006	ug/L	No
Malathion	Jan 7	<5.0	ug/L	No
Methoxychlor	Jan 7	<0.02	ug/L	No



<b>Metolachlor</b>	Jan 7	<0.5	ug/L	No
<b>Metribuzin</b>	Jan 7	<5.0	ug/L	No
<b>Monochlorobenzene</b>	Jan 7	<0.1	ug/L	No
<b>Paraquat</b>	Jan 7	<1.0	ug/L	No
<b>Parathion</b>	Jan 7	<1.0	ug/L	No
<b>Pentachlorophenol</b>	Jan 7	<0.5	ug/L	No
<b>Phorate</b>	Jan 7	<0.5	ug/L	No
<b>Picloram</b>	Jan 7	<5.0	ug/L	No
<b>Polychlorinated Biphenyls(PCB)</b>	Jan 7	<0.05	ug/L	No
<b>Prometryne</b>	Jan 7	<0.3	ug/L	No
<b>Simazine</b>	Jan 7	<1.0	ug/L	No
<b>THM</b> (NOTE: show latest annual average)  2008 POE: JAN 7 – 12.5 ug/L	Jan 7 Apr 7 July 7 Oct 6 Avg '08	29.7 38.4 29.3 59.7 39.3	ug/L	No
<b>Temephos</b>	Jan 7	<10.0	ug/L	No
<b>Terbufos</b>	Jan 7	<0.5	ug/L	No
<b>Tetrachloroethylene</b>	Jan 7	<0.1	ug/L	No
<b>2,3,4,6-Tetrachlorophenol</b>	Jan 7	<0.5	ug/L	No
<b>Triallate</b>	Jan 7	<1.0	ug/L	No
<b>Trichloroethylene</b>	Jan 7	<0.1	ug/L	No
<b>2,4,6-Trichlorophenol</b>	Jan 7	<0.50	ug/L	No
<b>2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)</b>	Jan 7	<1.0	ug/L	No
<b>Trifluralin</b>	Jan 7	<1.0	ug/L	No
<b>Vinyl Chloride</b>	Jan 7	<0.2	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