



OPTIONAL ANNUAL REPORT TEMPLATE

Drinking-Water System Number:	260024999
Drinking-Water System Name:	South Chatham-Kent Water Treatment Plant
Drinking-Water System Owner:	Municipality of Chatham-Kent
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January - December 2009

<p><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></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><u>Complete for all other Categories.</u></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

Compressor Repairs	\$7,381
5 kV Ampguard Breaker (Low Lift Pump Controls)	\$3,150
Low Lift Pump #3 Rebuilt	\$60,000
Raw Water Pumping Station Intake Inspection	\$2,400
Communication Radios Replaced at Cedar Springs Standpipe & Blenheim Elevated Tank	\$9,300
5 - Aluminum Hatches for Blenheim Reservoir	\$6,969
2 – 12” Replacement Valves at Blenheim Reservoir	\$8,500
Repairs to Membrane Filter Flow Control Valve	\$2,765
Milltronics Installed for Low Lift Pump Well Level Indication	\$1,593



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

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	52	0 – 10	0 - 560	0	
Treated	52	0 - 0	0 - 0	52	<10 - 50
Distribution	468	0 - 0	0 - 0	157	<10 - 450

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	8760	0.044 – 0.810
Chlorine	8760	0.97 – 2.37
Fluoride (If the DWS provides fluoridation)	8760	0.42 – 0.76

***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 2009	Result	Unit of Measure
C of A 3531-6HDQ3C	Monthly Backwash Suspended Solids	Jan 12	10	mg/L
		Feb 9	2	
		Mar 9	10	
		Apr 14	1	
		May 11	1	
		Jun 8	1	
		Jul 13	1	
		Aug 10	1	
		Sept 14	15	
		Oct 13	35	
		Nov 16	11	
		Dec 14	3	

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	Jan 5	<0.5	ug/L	No
Arsenic	Jan 5	1.0	ug/L	No
Barium	Jan 5	18.0	ug/L	No
Boron	Jan 5	18.0	ug/L	No
Cadmium	Jan 5	<0.1	ug/L	No
Chromium	Jan 5	<5.0	ug/L	No
*Lead	See Schedule 15.1 Summary			
Mercury	Jan 5	<0.0001	mg/L	No
Selenium	Jan 5	<2.0	ug/L	No
Sodium	Feb 24 '05	9.6	mg/L	No
Uranium	Jan 5	0.4	ug/L	No
Fluoride	Continuous Monitoring Required See Operational Section			
Nitrite	Oct 5	<0.01	mg/L	No
Nitrate	Oct 5	0.2	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	120	<0.50 – 3.00	0
Non-Residential	12	<0.50 – 3.60	0
Distribution	24	<0.50 – 2.10	0

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 5	<0.5	ug/L	No
Aldicarb	Jan 5	<5.0	ug/L	No
Aldrin + Dieldrin	Jan 5	<0.01	ug/L	No
Atrazine + N-dealkylated metabolites	Jan 5	<1.0	ug/L	No
Azinphos-methyl	Jan 5	<2.0	ug/L	No
Bendiocarb	Jan 5	<2.0	ug/L	No
Benzene	Jan 5	<0.1	ug/L	No
Benzo(a)pyrene	Jan 5	<0.009	ug/L	No
Bromoxynil	Jan 5	<0.5	ug/L	No
Carbaryl	Jan 5	<5.0	ug/L	No
Carbofuran	Jan 5	<5.0	ug/L	No
Carbon Tetrachloride	Jan 5	<0.1	ug/L	No
Chlordane (Total)	Jan 5	<0.01	ug/L	No
Chlorpyrifos	Jan 5	<1.0	ug/L	No
Cyanazine	Jan 5	<1.0	ug/L	No
Diazinon	Jan 5	<1.0	ug/L	No
Dicamba	Jan 5	<1.0	ug/L	No
1,2-Dichlorobenzene	Jan 5	<0.2	ug/L	No
1,4-Dichlorobenzene	Jan 5	<0.2	ug/L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	Jan 5	<0.02	ug/L	No
1,2-Dichloroethane	Jan 5	<0.2	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	Jan 5	<0.1	ug/L	No
Dichloromethane	Jan 5	<0.5	ug/L	No
2-4 Dichlorophenol	Jan 5	<0.5	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Jan 5	<1.0	ug/L	No
Diclofop-methyl	Jan 5	<0.9	ug/L	No
Dimethoate	Jan 5	<3.0	ug/L	No
Dinoseb	Jan 5	<1.0	ug/L	No
Diquat	Jan 5	<7.0	ug/L	No
Diuron	Jan 5	<10.0	ug/L	No
Glyphosate	Jan 5	<10.0	ug/L	No
Heptachlor + Heptachlor Epoxide	Jan 5	<0.01	ug/L	No
Lindane (Total)	Jan 5	<0.006	ug/L	No
Malathion	Jan 5	<5.0	ug/L	No
Methoxychlor	Jan 5	<0.02	ug/L	No
Metolachlor	Jan 5	<0.5	ug/L	No
Metribuzin	Jan 5	<5.0	ug/L	No
Monochlorobenzene	Jan 5	<0.1	ug/L	No
Paraquat	Jan 5	<1.0	ug/L	No
Parathion	Jan 5	<1.0	ug/L	No
Pentachlorophenol	Jan 5	<0.5	ug/L	No
Phorate	Jan 5	<0.5	ug/L	No
Picloram	Jan 5	<5.0	ug/L	No
Polychlorinated Biphenyls(PCB)	Jan 5	<0.05	ug/L	No
Prometryne	Jan 5	<0.3	ug/L	No
Simazine	Jan 5	<1.0	ug/L	No



THM (NOTE: show latest annual average) 2009 POE: JAN 5 – 17.1 ug/L	Jan 5	28.6	ug/L	No
	Apr 6	30.9		
	July 6	28.9		
	Oct 5	46.8		
	Avg '09	33.8		
Temephos	Jan 5	<10.0	ug/L	No
Terbufos	Jan 5	<0.5	ug/L	No
Tetrachloroethylene	Jan 5	<0.1	ug/L	No
2,3,4,6-Tetrachlorophenol	Jan 5	<0.5	ug/L	No
Triallate	Jan 5	<1.0	ug/L	No
Trichloroethylene	Jan 5	<0.1	ug/L	No
2,4,6-Trichlorophenol	Jan 5	<0.5	ug/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	Jan 5	<1.0	ug/L	No
Trifluralin	Jan 5	<1.0	ug/L	No
Vinyl Chloride	Jan 5	<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