

**Part III Form 2
Section 11. ANNUAL REPORT.**

Drinking-Water System Number:	260024999
Drinking-Water System Name:	South Chatham-Kent WTP
Drinking-Water System Owner:	Municipality of Chatham-Kent
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January-December 2007

<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;"> Chatham-Kent PUC Office 325 Grand Ave E Box 1191 Chatham, ON N7M 5L8 </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <input style="width: 100px; height: 20px;" 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 style="width: 100px; height: 20px;" 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 microfiltration units, each equipped with hollow fibre membrane modules. The system automatically backwashes when the filters become plugged. Granular activated carbon filters are used seasonally for taste and odour 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. Hydrofluosilicic 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.

Repaired low lift pump # 5.....\$8000.00

Drinking-Water Systems Regulation O. Reg. 170/03

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
Nov 21	Indicator of Adverse Water Quality – contractor hit line			Resample Nov 22 & 23, Restored Disinfectant, Flushed & Users Advised to Boil/Seek alternative	Nov 21

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	0-35	0->2000		
Treated	52	0-0	0-0	52	<10-10
Distribution	479	0-0	0-0	169	<10-780

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	0.0065-0.053
Chlorine	8760	0.89 – 2.07
Fluoride (If the DWS provides fluoridation) POE grab	8760	0.46-0.73

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 2007	Result	Unit of Measure
C of A 3531-6HDQ3C	Monthly Backwash SS	Jan 09	8	mg/L
		Feb 12	5	
		Mar 12	12	
		Apr 10	9	
		May 14	10	
		Jun 11	6	
		Jul 09	13	
		Aug 13	10	
		Sept 10	17	
		Oct 09	12	
		Nov 13	88	
		Dec 10	13	
		Monthly Avg.	18.3	

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 9 '07	<1	ug/L	N
Arsenic	Jan 9 '07	<1	ug/L	N
Barium	Jan 9 '07	17	ug/L	N
Boron	Jan 9 '07	17	ug/L	N
Cadmium	Jan 9 '07	<0.1	ug/L	N
Chromium	Jan 9 '07	<5	ug/L	N
Lead Distribution	Jan 9 '07	<0.5	ug/L	N
	May 16	<0.5		
	May 16	<0.5		
	May 16	2.1		
	May 16	<0.5		
	May 16	<0.5		
	May 16	<0.5		
	May 16	0.6		
Mercury	Jan 9 '07	<0.0001	mg/L	N
Selenium	Jan 9 '07	<2	ug/L	N
Sodium	24 Feb '05	9.6	mg/L	N
Uranium	Jan 9 '07	0.4	ug/L	N
Fluoride	Continuous monitoring required	See operational section		
Nitrite	Oct 1	<0.01	mg/L	N
Nitrate	Oct 1	0.1	mg/L	N

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 9	<0.50	ug/L	N
Aldicarb	Jan 9	<5.0	ug/L	N
Aldrin + Dieldrin	Jan 9	<0.012	ug/L	N
Atrazine + N-dealkylated metabolites	Jan 9	<1.0	ug/L	N
Azinphos-methyl	Jan 9	<2	ug/L	N
Bendiocarb	Jan 9	<2.0	ug/L	N
Benzene	Jan 9	<0.1	ug/L	N
Benzo(a)pyrene	Jan 9	<0.0090	ug/L	N
Bromoxynil	Jan 9	<0.50	ug/L	N
Carbaryl	Jan 9	<5.0	ug/L	N
Carbofuran	Jan 9	<5.0	ug/L	N
Carbon Tetrachloride	Jan 9	<0.1	ug/L	N
Chlordane (Total)	Jan 9	<0.012	ug/L	N
Chlorpyrifos	Jan 9	<1.0	ug/L	N
Cyanazine	Jan 9	<1.0	ug/L	N
Diazinon	Jan 9	<1.0	ug/L	N
Dicamba	Jan 9	<1.0	ug/L	N
1,2-Dichlorobenzene	Jan 9	<0.2	ug/L	N
1,4-Dichlorobenzene	Jan 9	<0.2	ug/L	N
Dichlorodiphenyltrichloroethane (DDT) + metabolites	Jan 9	<0.024	ug/L	N
1,2-Dichloroethane	Jan 9	<0.1	ug/L	N
1,1-Dichloroethylene (vinylidene chloride)	Jan 9	<0.1	ug/L	N
Dichloromethane	Jan 9	<0.5	ug/L	N
2-4 Dichlorophenol	Jan 9	<0.50	ug/L	N
2,4-Dichlorophenoxy acetic acid (2,4-D)	Jan 9	<1.0	ug/L	N
Diclofop-methyl	Jan 9	<0.90	ug/L	N
Dimethoate	Jan 9	<2.5	ug/L	N
Dinoseb	Jan 9	<1.0	ug/L	N
Diquat	Jan 9	<7	ug/L	N
Diuron	Jan 9	<10	ug/L	N
Glyphosate	Jan 9	<10	ug/L	N
Heptachlor + Heptachlor Epoxide	Jan 9	<0.012	ug/L	N
Lindane (Total)	Jan 9	<0.006	ug/L	N
Malathion	Jan 9	<5.0	ug/L	N
Methoxychlor	Jan 9	<0.024	ug/L	N
Metolachlor	Jan 9	<0.50	ug/L	N
Metribuzin	Jan 9	<5.0	ug/L	N

Drinking-Water Systems Regulation O. Reg. 170/03

Monochlorobenzene	Jan 9	<0.1	ug/L	N
Paraquat	Jan 9	<1	ug/L	N
Parathion	Jan 9	<1.0	ug/L	N
Pentachlorophenol	Jan 9	<0.50	ug/L	N
Phorate	Jan 9	<0.50	ug/L	N
Picloram	Jan 9	<5.0	ug/L	N
Polychlorinated Biphenyls(PCB)	Jan 9	<0.05	ug/L	N
Prometryne	Jan 9	<0.25	ug/L	N
Simazine	Jan 9	<1.0	ug/L	N
THM (NOTE: show latest annual average)	2007POE Q1 19.7	2007Dist Q1 75.5 Q2 32.2 Q3 35.5 Q4 55.2 Avg49.6	ug/L	N
Temephos	Jan 9	<10	ug/L	N
Terbufos	Jan 9	<0.70	ug/L	N
Tetrachloroethylene	Jan 9	<0.1	ug/L	N
2,3,4,6-Tetrachlorophenol	Jan 9	<0.50	ug/L	N
Triallate	Jan 9	<1.0	ug/L	N
Trichloroethylene	Jan 9	<0.1	ug/L	N
2,4,6-Trichlorophenol	Jan 9	<0.50	ug/L	N
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	Jan 9	<1.0	ug/L	N
Trifluralin	Jan 9	<1.0	ug/L	N
Vinyl Chloride	Jan 9	<0.2	ug/L	N

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

(Only if DWS category is large municipal residential, small municipal residential, large municipal non residential, non municipal year round residential, large non municipal non residential)