

**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 2006

<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

US Filter Membrane upgrade \$150,000.

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
Sept 13	HPC	Over-grown		Resampled Flushed Reported to HU	Sept 13
Sept 14	Total Coliforms 2 samples	1	/100 mL	Resampled Flushed	Sept 14, 15, 16
Sept 15	Main Break Precautionary BW			Resampled Flushed Precautionary BW	Sept 15, 16, 18

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	20	820	1	>200
Treated	52	0-0	0-0	52	0-120
Distribution	605	0-0	0-0	523	0-170

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	0.07596-0.3891
Chlorine	8760	1.28-2.04
Fluoride (If the DWS provides fluoridation) POE grab	8760	0.40-0.77

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 2006	Result	Unit of Measure
C of A 3531-6HDQ3C	Monthly Backwash SS	Jan 10	17	mg/L
		Feb 14	8	
		Mar 14	1	
		Apr	1	
		May	1	
		Jun	7	
		Jul	9	
		Aug	7	
		Sept	12	
		Oct	1	
		Nov	1	
		Dec	7	

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 10 '06	<1	ug/L	N
Arsenic	Jan 10	<1	ug/L	N
Barium	Jan 10	19	ug/L	N
Boron	Jan 10	18	ug/L	N
Cadmium	Jan 10	<0.1	ug/L	N
Chromium	Jan 10	<5	ug/L	N
Lead				
Point of Entry	Jan 10	<0.5	ug/L	N
Distribution	Jan 10	<0.5	ug/L	N
Mercury	Jan 10	<0.0001	mg/L	N
Selenium	Jan 10	<2	ug/L	N
Sodium	24 Feb '05	9.6	mg/L	N
Uranium	Jan 10	0.4	ug/L	N
Fluoride	Continuous monitoring required	See operational section		
Nitrite	03 Oct '06	<0.01	mg/L	N
Nitrate	03 Oct '06	0.2	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
Aalachlor	Jan 10 '06	<0.50	ug/L	N
Aldicarb	Jan 10	<5.0	ug/L	N
Aldrin + Dieldrin	Jan 10	<0.012	ug/L	N
Atrazine + N-dealkylated metabolites	Jan 10	<1.0	ug/L	N
Azinphos-methyl	Jan 10	<2	ug/L	N
Bendiocarb	Jan 10	<2.0	ug/L	N
Benzene	Jan 10	<0.1	ug/L	N
Benzo(a)pyrene	Jan 10	<0.0090	ug/L	N
Bromoxynil	Jan 10	<0.50	ug/L	N
Carbaryl	Jan 10	<5.0	ug/L	N
Carbofuran	Jan 10	<5.0	ug/L	N
Carbon Tetrachloride	Jan 10	<0.1	ug/L	N
Chlordane (Total)	Jan 10	<0.012	ug/L	N
Chlorpyrifos	Jan 10	<1.0	ug/L	N
Cyanazine	Jan 10	<1.0	ug/L	N
Diazinon	Jan 10	<1.0	ug/L	N
Dicamba	Jan 10	<1.0	ug/L	N
1,2-Dichlorobenzene	Jan 10	<0.2	ug/L	N
1,4-Dichlorobenzene	Jan 10	<0.2	ug/L	N
Dichlorodiphenyltrichloroethane (DDT) + metabolites	Jan 10	<0.024	ug/L	N
1,2-Dichloroethane	Jan 10	<0.1	ug/L	N
1,1-Dichloroethylene (vinylidene chloride)	Jan 10	<0.1	ug/L	N
Dichloromethane	Jan 10	<0.5	ug/L	N
2-4 Dichlorophenol	Jan 10	<0.50	ug/L	N
2,4-Dichlorophenoxy acetic acid (2,4-D)	Jan 10	<1.0	ug/L	N
Diclofop-methyl	Jan 10	<0.90	ug/L	N
Dimethoate	Jan 10	<2.5	ug/L	N
Dinoseb	Jan 10	<1.0	ug/L	N
Diquat	Jan 10	<7	ug/L	N
Diuron	Jan 10	<10	ug/L	N
Glyphosate	Jan 10	<10	ug/L	N
Heptachlor + Heptachlor Epoxide	Jan 10	<0.012	ug/L	N
Lindane (Total)	Jan 10	<0.006	ug/L	N
Malathion	Jan 10	<5.0	ug/L	N
Methoxychlor	Jan 10	<0.024	ug/L	N
Metolachlor	Jan 10	<0.50	ug/L	N
Metribuzin	Jan 10	<5.0	ug/L	N
Monochlorobenzene	Jan 10	<0.1	ug/L	N
Paraquat	Jan 10	<1	ug/L	N

Parathion	Jan 10 '06	<1.0	ug/L	N
Pentachlorophenol	Jan 10	<0.50	ug/L	N
Phorate	Jan 10	<0.50	ug/L	N
Picloram	Jan 10	<5.0	ug/L	N
Polychlorinated Biphenyls(PCB)	Jan 10	<0.05	ug/L	N
Prometryne	Jan 10	<0.25	ug/L	N
Simazine	Jan 10	<1.0	ug/L	N
THM (NOTE: show latest annual average)	2006 POE Q1 12	2006Dist Q1 23 Q2 44.5 Q3 24.7 Q4 42.3 Avg33.6	ug/L	N
Temephos	Jan 10	<10	ug/L	N
Terbufos	Jan 10	<0.70	ug/L	N
Tetrachloroethylene	Jan 10	<0.1	ug/L	N
2,3,4,6-Tetrachlorophenol	Jan 10	<0.50	ug/L	N
Triallate	Jan 10	<1.0	ug/L	N
Trichloroethylene	Jan 10	<0.1	ug/L	N
2,4,6-Trichlorophenol	Jan 10	<0.50	ug/L	N
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	Jan 10	<1.0	ug/L	N
Trifluralin	Jan 10	<1.0	ug/L	N
Vinyl Chloride	Jan 10	<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
none			

(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)