

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

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

<b>Drinking-Water System Number:</b>	210000078
<b>Drinking-Water System Name:</b>	Southampton Water Treatment Plant & Distribution System
<b>Drinking-Water System Owner:</b>	Town of Saugeen Shores
<b>Drinking-Water System Category:</b>	Large Municipal Residential
<b>Period being reported:</b>	January 1 to December 31, 2004

<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 [ ] 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>Town of Saugeen Shores 600 Tomlinson Drive Port Elgin, Ontario N0H 2C0 519-832-2008</p> </div>	<p><b><u>Complete for all other Categories.</u></b></p> <p>Number of Designated Facilities served:  <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px 0;"></div> </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: <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px 0;"></div></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
Saugeen First Nations	

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 [ ]

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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

#### Class 2 Water Distribution, Class 3 Water Treatment

**Operational Description:** There is 1200'(365.8m) of 24" (600mm concrete intake pipe into Lake Huron that enters the low lift pump station. Zebra mussel control by chlorine at intake crib. Pre-chlorination at low lift station. Manual screening of raw water at intake well. 3 low lift pumps at low lift pump station (66 l/s each) discharge to a 16" (400mm) dia. raw water transmission line approximately 2400' (732m) in length to the water treatment plant located on Island Street. Polyaluminum chloride is added to the raw water as it enters the plant, passes through a static mixer and empties into 2 reactor-clarifier pretreatment units. Clarified water is then transmitted to 3 dual media pre-engineered, prefabricated steel filters. Filtered water is then chlorinated and stored in a 2 compartment underground reservoir with a capacity of 1336m<sup>3</sup>. Clarifier sludge and filter backwash water is directed to a 307m<sup>3</sup>, 2 compartment surge-settling tank. Decanted water is discharged to a drainage ditch which discharges eventually to Lake Huron. Waste sludge is discharged to the municipal sanitary sewer system. Treated water is discharged to the water system by 3 vertical turbine pumps. 2 pumps have a capacity of 60 l/s and 1 @ 45 l/s. A water storage tower with a capacity of 750000 imp. gals. (3409m<sup>3</sup>) is connected to the system to provide pressure within the system and to provide storage for fire fighting and domestic supply for the town, a small number of users in Saugeen Township and the residents of Chippawa Hill, a section of the Saugeen First Nations Indian Reserve.

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

Poyaluminum chloride  
Chlorine (gas)  
Sodium Metabisulphate

### 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

<i>Item</i>	<i>Date</i>	<i>Cost</i>
Hydrant Markers	2004	\$ 2,389.61
Alldos Sampler	2004	\$ 3,521.07
Hydrant Cleanouts	2004	\$ 4,776.53

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<i>Item</i>	<i>Date</i>	<i>Cost</i>
Gaskets & Rings	2004	\$ 2,572.03
Injection Pump	2004	\$ 5,243.77
Water Tower Investigations	2004	\$ 603.75
Water Testing for new watermain & plant upgrades	2004	\$ 4,168.55

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. 9/04 AWQI #32540	Total Coliform	1	CFU/100 mL	Resample	Sept. 13/04

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 Background/HPC Samples	Range of Background/HPC Results (min #)-(max #)
Raw	52	0-380	0-1820	66	0-2400
Treated	52	0-0	0-0	64	0-66
Distribution	215	0-0	0-1	237	0-4

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	8670	0.04 – 0.35
Chlorine	8670	0.66 – 1.59
Fluoride (If the DWS provides fluoridation)		

*NOTE: For continuous monitors use 8760 as the number of samples.*

*NOTE: Record the unit of measure if it is not milligrams per litre.*

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**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
C of A 4151-645HF6	Suspended Solids (composite)	Monthly	Annual Average 8.6	mg/L

**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.13/04	<0.6	ug/L	No
Arsenic	Jan.13/04	<2	ug/L	No
Barium	Jan.13/04	14	ug/L	No
Boron	Jan.13/04	14	ug/L	No
Cadmium	Jan.13/04	<0.1	ug/L	No
Chromium	Jan.13/04	<3	ug/L	No
Lead (DDW)	Jan.13/04	<0.6	ug/L	No
Mercury	Jan.13/04	<0.1	ug/L	No
Selenium	Jan.13/04	<3	ug/L	No
Sodium	April 06/04	5.2	mg/L	No
Uranium	Jan.13/04	<0.05	ug/L	No
Fluoride	Jan.14/03	0.18	mg/L	No
Nitrite	Jan.13/04	<0.011	mg/L	No
Nitrate	Jan.13/04	0.322	mg/L	No

**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.13/04	<0.11	ug/L	No
Aldicarb	Jan.13/04	<0.3	ug/L	No
Aldrin + Dieldrin	Jan.13/04	<0.067	ug/L	No
Atrazine + N-dealkylated metabolites	Jan.13/04	<0.12	ug/L	No
Azinphos-methyl	Jan.13/04	<0.21	ug/L	No
Bendiocarb	Jan.13/04	<0.13	ug/L	No
Benzene	Jan.13/04	<0.36	ug/L	No
Benzo(a)pyrene	Jan.13/04	<0.004	ug/L	No
Bromoxynil	Jan.13/04	<0.094	ug/L	No
Carbaryl	Jan.13/04	<0.16	ug/L	No
Carbofuran	Jan.13/04	<0.37	ug/L	No
Carbon Tetrachloride	Jan.13/04	<0.34	ug/L	No
Chlordane (Total)	Jan.13/04	<0.11	ug/L	No
Chlorpyrifos	Jan.13/04	<0.18	ug/L	No

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Cyanazine	Jan.13/04	<0.18	ug/L	No
Diazinon	Jan.13/04	<0.081	ug/L	No
Dicamba	Jan.13/04	<0.17	ug/L	No
1,2-Dichlorobenzene	Jan.13/04	<0.56	ug/L	No
1,4-Dichlorobenzene	Jan.13/04	<0.25	ug/L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	Jan.13/04	<0.14	ug/L	No
1,2-Dichloroethane	Jan.13/04	<0.32	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	Jan.13/04	<0.52	ug/L	No
Dichloromethane	Jan.13/04	<1.17	ug/L	No
2-4 Dichlorophenol	Jan.13/04	<0.15	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Jan.13/04	<0.11	ug/L	No
Diclofop-methyl	Jan.13/04	<0.13	ug/L	No
Dimethoate	Jan.13/04	<0.12	ug/L	No
Dinoseb	Jan.13/04	<0.084	ug/L	No
Diquat	Jan.13/04	<1	ug/L	No
Diuron	Jan.13/04	<0.087	ug/L	No
Glyphosate	Jan.13/04	<6	ug/L	No
Heptachlor + Heptachlor Epoxide	Jan.13/04	<0.11	ug/L	No
Lindane (Total)	Jan.13/04	<0.056	ug/L	No
Malathion	Jan.13/04	<0.091	ug/L	No
Methoxychlor	Jan.13/04	<0.14	ug/L	No
Metolachlor	Jan.13/04	<0.092	ug/L	No
Metribuzin	Jan.13/04	<0.12	ug/L	No
Monochlorobenzene	Jan.13/04	<0.46	ug/L	No
Paraquat	Jan.13/04	<1	ug/L	No
Parathion	Jan.13/04	<0.18	ug/L	No
Pentachlorophenol	Jan.13/04	<0.15	ug/L	No
Phorate	Jan.13/04	<0.11	ug/L	No
Picloram	Jan.13/04	<0.20	ug/L	No
Polychlorinated Biphenyls(PCB)	Jan.13/04	<0.04	ug/L	No
Prometryne	Jan.13/04	<0.23	ug/L	No
Simazine	Jan.13/04	<0.15	ug/L	No
THM (NOTE: show latest annual average)	Oct.25/04	30.5	ug/L	No
Temephos	Jan.13/04	<0.31	ug/L	No
Terbufos	Jan.13/04	<0.12	ug/L	No
Tetrachloroethylene	Jan.13/04	<0.48	ug/L	No
2,3,4,6-Tetrachlorophenol	Jan.13/04	<0.14	ug/L	No
Triallate	Jan.13/04	<0.10	ug/L	No
Trichloroethylene	Jan.13/04	<0.54	ug/L	No
2,4,6-Trichlorophenol	Jan.13/04	<0.25	ug/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	Jan.13/04	<0.14	ug/L	No
Trifluralin	Jan.13/04	<0.12	ug/L	No

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Vinyl Chloride	Jan.13/04	<0.08	ug/L	No
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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)