

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

Drinking-Water System Number:	210000149
Drinking-Water System Name:	Amherstburg Water Treatment Plant
Drinking-Water System Owner:	Corporation of the Town of Amherstburg
Drinking-Water System Category:	Large municipal residential system
Period being reported:	January 1, 2004 to December 31, 2004

<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 [<input checked="" type="checkbox"/>] No []</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [<input checked="" type="checkbox"/>] No []</p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <table border="1" style="width: 100%;"> <tr> <td>Amherstburg Water Treatment Plant Town of Amherstburg</td> </tr> </table>	Amherstburg Water Treatment Plant Town of Amherstburg	<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>
Amherstburg Water Treatment Plant Town of Amherstburg		

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
Amherstburg Water Distribution System	

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

A surface water treatment plant, with a rated capacity of 18,184 cubic meters per day, consisting of:

1. An intake crib 155 meters into the Detroit River and connected through a 900mm pipe to the Low Lift Pumping Station.
2. A low lift pumping station equipped with wet well, three vertical turbine pumps, a coarse bar screen, an automatic traveling screen and two 50mm chlorine solution feed lines and a chlorine diffuser.
3. A solids-contact upflow clarifier with overflow chamber, chemical feed line, sludge blow off line, sludge scraper and recirculation system.
4. Four rapid sand filters with dual media of anthracite and silica sand including a backwash system.
5. A filter effluent clearwell with transfer conduit to the reservoir.
6. A 14900m³ underground storage reservoir.
7. A high lift pumping station equipped with three vertical turbine pumps, a fluoride feed line/diffuser, a chlorine solution feed line/diffuser and a filter backwash pump.

List all water treatment chemicals used over this reporting period

1. SternPac
2. Activated carbon
3. Chlorine gas
4. Hydrofluosilicic acid
5. Polymer (Nalco 8103)
6. Polymer (Nalco 8184)

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

Installed Waste Stream Sampler - \$12,719.35

Fluoride Piping Upgrades - \$14,016.94

Chemical Feed Pump Upgrades - \$34,404.43

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
04/11/11	HPC (dist. sys.)	>500	/1mL	Resample	04/11/15
04/09/08	Fluoride (treated water)	>1.5	mg/L	Resample	04/09/08
04/09/01	Total Coliform (dist. sys.)	1	/100mL	Resample, flush mains.	04/09/07
04/07/21	TC Background(dist.sys.)	>200	/100mL	Resample, flush mains.	04/07/28
04/07/07	Fluoride (treated water)	>1.5	mg/L	Resample	04/07/07
04/06/17	Fluoride (treated water)	>1.5	mg/L	Resample	04/06/17
04/05/21	Fluoride (treated water)	>1.5	mg/L	Resample, shut off fluoride pump	04/05/21
04/05/21	Fluoride (treated water)	>1.5	mg/L	Resample	04/05/21
04/03/09	Fluoride (treated water)	>1.5	mg/L	Resample, shut off fluoride pump	04/03/09

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	2 - 1840	10-120,000	52	10 - 420,000
Treated	52	0	0	52	0 - 11
Distribution	435	0	0 - 1	175	0 - >500

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	0.01 – 0.85 NTU
Chlorine	8760	0.66 – 1.59 mg/L
Fluoride (If the DWS provides fluoridation)	8760	0 – >1.5 mg/L

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	Result	Unit of Measure
Cof A #8120-53VMF5 Dated on 02/01/07	Nitrilotriacetic Acid	04/02/16	<0.03	mg/L
		04/07/06	<0.03	mg/L
	Backwash/wastewater			
	Suspended Solid	04/12/07	593	mg/L
	Free Chlorine	04/12/07	0.10	mg/L
	Suspended Solid	04/11/02	41	mg/L
	Free Chlorine	04/11/02	1.13	mg/L
	Suspended Solid	04/10/05	42	mg/L
	Free Chlorine	04/10/05	0.9	mg/L
	Suspended Solid	04/09/06	447	mg/L
	Free Chlorine	04/09/06	1.2	mg/L
	Suspended Solid	04/08/03	31	mg/L
	Free Chlorine	04/08/03	0.79	mg/L
	Suspended Solid	04/07/06	210	mg/L
	Free Chlorine	04/07/06	0.89	mg/L
	Suspended Solid	04/06/07	1120	mg/L
	Free Chlorine	04/06/07	0.84	mg/L
Suspended Solid	04/05/04	204	mg/L	
Free Chlorine	04/05/04	0.67	mg/L	
Suspended Solid	04/04/06	12	mg/L	
Free Chlorine	04/04/06	0.48	mg/L	
Suspended Solid	04/03/02	20	mg/L	
Free Chlorine	04/03/02	0.30	mg/L	
Suspended Solid	04/02/03	55	mg/L	
Free Chlorine	04/02/03	0.59	mg/L	
Suspended Solid	04/01/06	18	mg/L	
Free Chlorine	04/01/06	0.44	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	04/07/06	<0.6	µg/L	No
Arsenic	04/07/06	<2	µg/L	No
Barium	04/07/06	15	µg/L	No
Boron	04/07/06	16	µg/L	No
Cadmium	04/07/06	<0.1	µg/L	No
Chromium	04/07/06	7	µg/L	No
Lead	04/07/06	1.0 (dist.sys.)	µg/L	No
Mercury	04/07/06	<0.02	µg/L	No
Selenium	04/07/06	<3	µg/L	No
Sodium	03/04/03	7.7	µg/L	No

		9.0 (dist.sys.)		
Uranium	04/07/06	<0.05	µg/L	No
Fluoride	03/04/07	0.25	mg/L	No
Nitrite	04/10/06	0.005	mg/L	No
	04/07/06	0.043		
	04/04/15	<0.005		
	04/01/05	<0.011		
Nitrate	04/10/06	0.251	mg/L	No
	04/07/06	0.892		
	04/04/15	3.13		
	04/01/05	1.53		

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	04/07/06	<0.11	µg/L	No
Aldicarb	04/07/06	<0.30	µg/L	No
Aldrin + Dieldrin	04/07/06	<0.067	µg/L	No
Atrazine + N-dealkylated metabolites	04/07/06	<0.12	µg/L	No
Azinphos-methyl	04/07/06	<0.21	µg/L	No
Bendiocarb	04/07/06	<0.13	µg/L	No
Benzene	04/07/06	<0.36	µg/L	No
Benzo(a)pyrene	04/07/06	<0.004	µg/L	No
Bromoxynil	04/07/06	<0.17	µg/L	No
Carbaryl	04/07/06	<0.16	µg/L	No
Carbofuran	04/07/06	<0.37	µg/L	No
Carbon Tetrachloride	04/07/06	<0.34	µg/L	No
Chlordane (Total)	04/07/06	<0.11	µg/L	No
Chlorpyrifos	04/07/06	<0.18	µg/L	No
Cyanazine	04/07/06	<0.18	µg/L	No
Diazinon	04/07/06	<0.081	µg/L	No
Dicamba	04/07/06	<0.17	µg/L	No
1,2-Dichlorobenzene	04/07/06	<0.56	µg/L	No
1,4-Dichlorobenzene	04/07/06	<0.25	µg/L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	04/07/06	<0.14	µg/L	No
1,2-Dichloroethane	04/07/06	<0.32	µg/L	No
1,1-Dichloroethylene (vinylidene chloride)	04/07/06	<0.52	µg/L	No
Dichloromethane	04/07/06	<1.17	µg/L	No
2-4 Dichlorophenol	04/07/06	<0.15	µg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	04/07/06	<0.11	µg/L	No

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Diclofop-methyl	04/07/06	<0.13	µg/L	No
Dimethoate	04/07/06	<0.12	µg/L	No
Dinoseb	04/07/06	<0.084	µg/L	No
Diquat	04/07/06	<1	µg/L	No
Diuron	04/07/06	<0.087	µg/L	No
Glyphosate	04/07/06	<6	µg/L	No
Heptachlor + Heptachlor Epoxide	04/07/06	<0.11	µg/L	No
Linadane (Total)	04/07/06	<0.056	µg/L	No
Malathion	04/07/06	<0.091	µg/L	No
Methoxychlor	04/07/06	<0.14	µg/L	No
Metolachlor	04/07/06	<0.092	µg/L	No
Metribuzin	04/07/06	<0.12	µg/L	No
Monochlorobenzene	04/07/06	<0.46	µg/L	No
Paraquat	04/07/06	<1	µg/L	No
Parathion	04/07/06	<0.18	µg/L	No
Pentachlorophenol	04/07/06	<0.15	µg/L	No
Phorate	04/07/06	<0.11	µg/L	No
Picloram	04/07/06	<0.20	µg/L	No
Polychlorinated Biphenyls(PCB)	04/07/06	<0.04	µg/L	No
Prometryne	04/07/06	<0.23	µg/L	No
Simazine	04/07/06	<0.15	µg/L	No
THM (NOTE: show latest annual average)	04/10/06 04/07/06 04/04/15 04/01/05 Average	27(dist.sys.) 38(dist.sys.) 68(dist.sys.) 27(dist.sys.) 40(dist.sys.)	µg/L	No
Temephos	04/07/06	<0.31	µg/L	No
Terbufos	04/07/06	<0.12	µg/L	No
Tetrachloroethylene	04/07/06	<0.48	µg/L	No
2,3,4,6-Tetrachlorophenol	04/07/06	<0.14	µg/L	No
Triallate	04/07/06	<0.10	µg/L	No
Trichloroethylene	04/07/06	<0.54	µg/L	No
2,4,6-Trichlorophenol	04/07/06	<0.25	µg/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	04/07/06	<0.14	µg/L	No
Trifluralin	04/07/06	<0.12	µg/L	No
Vinyl Chloride	04/07/06	<0.08	µg/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
No			

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(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)