



Annual Summary Report
February 24, 2009

Lou Zarlenga
Manager of Public Services
Corporation of the Town of Amherstburg
P.O. Box 159
271 Sandwich St. S,
Amherstburg, Ontario
Canada N9V 2Z3

Dear Mr. Zarlenga:

Re: Safe Drinking Water Act, O. Reg. 170/03 Schedule 22 Summary Report

Attached is the 2008 Summary Report for the Amherstburg Water Treatment Plant. This report has been completed based on the information obtained from the water treatment plant records and in accordance with Schedule 22 of O. Reg. 170/03, under the Safe Drinking Water Act, which requires a Summary Report to be prepared not later than March 31st of each year for the preceding calendar year. This report covers the period of January 1, 2008 to December 31, 2008.

Please remember that any Orders that you have received directly from the MOE should be reviewed. Where non-compliance with the Order is evident and it is not included in the attached 2008 Summary Report, then we recommend that this information be added to the Summary Report. Note: Schedule 22-2 (a) specifies that the summary report is given to, in the case of a drinking water system owned by a municipality, the members of the municipal council for the Town of Amherstburg, and is not intended for distribution to the Ministry of the Environment.

After your review and inclusion of any additional information, these Summary Reports are to be provided to the members of the municipal council. Please ensure this distribution.

Section 12 of O. Reg. 170/03, requires the Summary Reports be made available for inspection by any member of the public during normal business hours, without charge. The reports should be made available for inspection at the office of the municipality, or at a location that is reasonably convenient to the users of the water system.

Please find enclosed reports. If you have any questions, please feel free to contact Cluster Manager, Tim Sunderland, at (519) 736-5447.

Sincerely,

Dan Mitchell

Dan Mitchell
Operator/Mechanic/Acting PCT
Ontario Clean Water Agency

SUMMARY REPORTS FOR MUNICIPALITIES

Report

This report is a summary of water quality information for the Amherstburg WTP, published in accordance with Schedule 22 of Ontario's Drinking-Water Systems Regulation for the reporting period of January 1, 2008 to December 31, 2008. The Amherstburg WTP is categorized as a Large Municipal Residential Drinking Water System.

This report was prepared by The Ontario Clean Water Agency on behalf of The Corporation of the Town of Amherstburg.

Who gets a copy of the Summary Report?

- in the case of a drinking-water system owned by a municipality, the members of the municipal council;
- in the case of a drinking-water system owned by a municipal service board established under section 195 of the *Municipal Act, 2001*, the members of the municipal service board; or
- in the case of a drinking-water system owned by a corporation, the board of directors of the corporation.

What must the Summary Report contain?

The report must,

- (a) list the requirements of the Act, the regulations, the system's approval and any order that the system **failed to meet** at any time during the period covered by the report and specify the duration of the failure; and
- (b) for each failure referred to in clause (a), describe the measures that were taken to correct the failure.

The following table 1 lists the requirements that the system failed to meet and the measures taken to correct the failure:

Drinking Water Legislation	List the requirement(s) the system failed to meet	Specify the duration of the failure (i.e. date(s))	Describe the measures taken to correct the failure	Status (complete or outstanding)
Safe Drinking Water Act	None to report	—	—	—
Ontario Regulations (eg. O.Reg 170/03, O.Reg 435/93, O.Reg 903	2 nd round Lead sampling criteria, 58 samples were taken for residential when the requirement is 60	2 nd Round June 15/08 to Oct 15/08	better tracking	Complete
System Certificate of Approval #8120-53VMF5 Amended to #0896-7JHHW8	Monthly Backwash and Clarification/ Sedimentation Testing	Month of April/2008	Due to Lab error Duplicate samples are taken every month to comply with Certificate of Approval #8120-53VMF5 under Monitoring and Recording section 2 subsection 2.1 (g) (ii).	Complete
Provincial Officer's Order	None to report	—	—	—

Table 1

What else must the Summary Report contain?

The report must also include the following information for the purpose of enabling the owner of the system to assess the capability of the system to meet existing and planned uses of the system:

1. A summary of the quantities and flow rates of the water supplied during the period covered by the report, including monthly average and maximum daily flows and daily instantaneous peak flow rates.

Attached please find a copy of the quantities and flow rates report of the water supplied for Amherstburg WTP during 2008.

2. A comparison of the summary referred to in paragraph 1 to the rated capacity and flow rates approved in the system's approval.

By comparison, the rated capacity and flow rates for raw flow and treated water did not exceed the legislative requirement. Max day treated flows exceeded 80% of the rated treated capacity for the months of August and September.

Flow	Requirement	Maximum Daily Flow	Requirement	Maximum Flow Rate
2008	Maximum Allowable (per day)	Maximum Achieved (per day)	Maximum Allowable (per minute)	Maximum Achieved (per minute)
Raw Flow	22,900,000 L/d Permit to Take Water (#02-P-1254) (#3750-7FAHRN)	19,500,000 L/d	15,903 L/min Permit to Take Water (#02-P-1254) (#3750-7FAHRN)	14,650 L/min
Treated Flow	18,184 m ³ /d C of A (#8120-53VMF5) (#0896-7JHHW8)	16,270 m ³ /d	_____	_____

Table 2

When Does the Summary Report Get Submitted?

If a report is prepared for a system that supplies water to a municipality under the terms of a contract, the owner of the system shall give a copy of the report to the municipality by March 31.

End



**Ontario Clean Water Agency
Monthly Process Data Report**

Printed on: 1/11/2009
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Period: 01/01/2008 to 12/31/2008
Served Population: 20,599
Total Design Capacity(m³/day): 18,184.0

Municipality: Town of Amherstburg formerly (Twp of Malden, Twp of Anderdon, Town of Amherstburg)
Facility: [6810] - Amherstburg Water Treatment Plant & Distribution System
Works: [210000149] - Amherstburg Water Treatment Plant & Distribution System
Classification: Class 2 Water Distribution, Class 3 Water Treatment
Water Source: Detroit River

	Jan/2008	Feb/2008	Mar/2008	Apr/2008	May/2008	Jun/2008	Jul/2008	Aug/2008	Sep/2008	Oct/2008	Nov/2008	Dec/2008	Summary ->
Raw Water/Flows - Raw Water													
Raw Water/Flows Sum (m ³ /d)	9,707,415	9,134,829	9,228,032	9,982,333	10,729,627	11,573,133	12,732,935	13,816,742	10,866,067	10,871,226	12,621,467	13,933,161	11,285,809
Avg	31.0	29.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0	366.0
Cnt	10,845.0	10,430.0	9,935.0	10,950.0	15,220.0	14,460.0	18,700.0	17,710.0	15,350.0	11,950.0	17,205.0	18,545.0	13,700.0
Max	8,559.0	7,300.0	8,460.0	9,060.0	9,279.0	9,930.0	8,792.0	9,732.0	7,990.0	8,290.0	9,290.0	9,502.0	7,300.0
Min	6,987,097	6,845,311	6,825,742	7,187,933	7,982,452	8,969,667	9,782,806	10,625,323	8,257.2	7,940,581	10,043,133	10,812,742	8,459,727
Avg	31.0	29.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0	366.0
Cnt	7,545.0	7,655.0	7,029.0	7,723.0	11,906.0	11,310.0	13,637.0	14,594.0	11,775.0	9,051.0	14,650.0	14,822.0	14,650.0
Max	6,353.0	5,939.0	6,282.0	6,468.0	6,570.0	6,983.0	7,517.0	8,689.0	6,565.0	7,261.0	7,382.0	6,893.0	6,939.0
Min	Treated Water/Flows - Treated Water												
Treated Water/Flows Sum (m ³ /d)	8,129,677	7,800,682	7,942,258	8,600.0	9,628,357	10,575.0	11,679,161	13,204,711	9,931.3	8,388,742	7,509,767	7,997,903	9,324,657
Avg	31.0	29.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0	366.0
Cnt	8,723.0	9,214.0	8,543.0	9,900.0	12,918.0	12,950.0	14,350.0	16,270.0	15,280.0	9,410.0	8,430.0	8,915.0	16,270.0
Max	7,570.0	7,200.0	7,423.0	7,820.0	8,110.0	7,050.0	9,079.0	10,510.0	8,522.0	6,360.0	7,190.0	7,515.0	6,360.0
Min	Note: ? Calculation not verifiable. At least one result reported as < and at least one result reported >.												
	-1 Analysis result less than detectable limit												



**Ontario Clean Water Agency
Performance Assessment Report - Surface Water Supply**

Printed on: 1/11/2009
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Municipality: Town of Amherstburg formerly (Town of Malden, Town of Andover, Town of Amherstburg)
 Facility: [5619] - Amherstburg Water Treatment Plant & Distribution System
 Works: [210000149] - Amherstburg Water Treatment Plant & Distribution System
 Classification: Class 2 Water Distribution, Class 3 Water Treatment
 Water Source: Detroit River

Period: 01/01/2008 to 12/31/2008
 Served Population: 20,590
 Total Design Capacity(m³/day): 18,184.0
 Raw Group Selected: RW
 Effluent Group Selected: TW


Flow	Date												Total	Avg	Max	Criteria	
	Jan2008	Feb2008	Mar2008	Apr2008	May2008	Jun2008	Jul2008	Aug2008	Sep2008	Oct2008	Nov2008	Dec2008					
Raw: Total Flow(m ³ /mth)	300,930.0	254,910.0	299,089.0	299,470.0	332,520.0	390,194.0	354,721.0	428,379.0	325,542.0	337,008.0	378,844.0	431,928.0	4,130,490.0				
Raw: Avg Day Flow(m ³ /day)	9,707.4	8,134.4	9,228.6	9,982.2	10,720.7	11,952.1	12,732.9	13,816.7	10,186.7	10,871.2	12,827.6	13,933.2	17,286.6				
Raw: Max Day Flow(m ³ /day)	10,845.0	10,430.0	9,356.0	10,950.0	15,220.0	14,460.0	18,700.0	17,710.0	15,350.0	11,950.0	17,205.0	15,848.0	18,700.0				
Treat: Total Flow(m ³ /mth)	252,020.0	226,220.0	246,710.0	259,000.0	298,480.0	317,280.0	362,854.0	409,345.0	297,930.0	280,051.0	287,935.0	287,935.0	3,412,820.0				
Treat: Avg Day Flow(m ³ /day)	8,129.7	7,807.1	7,942.2	8,000.0	9,603.4	10,870.0	11,972.0	13,204.7	9,931.3	8,388.7	7,905.8	7,997.9	9,324.7				
Treat: Max Day Flow(m ³ /day)	8,723.0	9,214.0	8,493.0	9,600.0	12,915.0	12,990.0	14,380.0	16,270.0	15,280.0	9,410.0	8,430.0	8,018.0	16,270.0				
Esoteric/Chemical/Bacterias																	
Raw: Max Turbidity(NTU)	200.0	893.0	70.2	192.0	69.3	66.0	90.8	61.5	32.2	60.7	185.0	348.0	48.28				
Treat: Min Turbidity(NTU)	0.04	0.04	0.04	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04				
Treat: Max Turbidity(NTU)	0.1	0.21	0.03	0.1	0.07	0.08	0.06	0.05	0.06	0.1	0.17	0.24	0.05				
Treat: Min Filler Turb.(NTU) []	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02				
Treat: Max Filler Turb.(NTU) []	0.23	0.95	0.14	0.24	0.44	0.24	0.06	0.15	0.16	0.3	0.94	0.73	0.11				
Treat: Max Nitrite(mg/L)	<	<	<	<	<	<	<	<	<	<	<	<	<				
Treat: Max Lead(mg/L)																	
Dist: Avg THM(mg/L)	11.0			19.0						36.0			28.0				
Disinfection																	
Treat: Min Free Cl ₂ Resid.(mg/L)	0.5	0.93	0.57	0.86	0.90	0.65	0.91	0.92	0.64	1.07	1.16	1.19	1.24				
Treat: Max Free Cl ₂ Resid.(mg/L)	1.45	1.9	1.56	1.45	1.32	1.32	1.4	1.34	1.43	1.97	2.01	2.2	1.35				
Dist: Min Free Cl ₂ Resid.(mg/L)	0.6	0.42	0.6	0.52	0.51	0.63	0.57	0.54	0.53	0.63	0.76	0.87	0.88				
Dist: Max Free Cl ₂ Resid.(mg/L)	1.49	1.62	1.55	1.32	1.14	1.06	1.05	1.06	1.12	1.62	1.83	1.97	1.17				
No. Of Bactl Sample Collected																	
Raw	5.0	4.0	4.0	5.0	4.0	4.0	5.0	4.0	5.0	4.0	4.0	5.0	5.0				
Treated	5.0	4.0	4.0	5.0	4.0	4.0	5.0	4.0	5.0	4.0	4.0	5.0	5.0				
Treat: Adverse																	
Dist: Adverse																	

Legend:
 Raw Group Selected: RW - Raw Water
 Effluent Group Selected: TW - Treated Water
 Filler Group Selected: -

Note: ? Calculation not verifiable. At least one result reported as < and at least one result reported as -.
 -1 Analysis result less than detectable limit

Report Submitted By: Tim Sunderland,
Cluster Manager,
Essex West Hub, Ontario Clean Water Agency

Signature  **Date** Feb 27/09

Received By:  - ANTONIETTA GIOFU

Signature  **Date** FEB 27, 2009

Confirmed By Resolution of Council:

Signature _____ **Date** _____