

Annual Summary Report February 22, 2010

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 2009 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, 2009 to December 31, 2009.

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 2009 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 Operations Manager, Tim Sunderland, at (519) 736-5447.

Sincerely,

Dan Mitchell

Dan Mitchell Process & Compliance Technician 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, 2009 to December 31, 2009. 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	List the requirement(s) the	Specify the	Describe the measures taken	Status
Legislation	system failed to meet	duration of the	to correct the failure	(complete or
		failure (i.e. date(s))		outstanding)
Safe Drinking	None to report			
Water Act				
Ontario	None to report			
Regulations (eg.	_			
O.Reg 170/03,				
O.Reg 435/93,				
O.Reg 903)				
System	None to report			
Certificate of				
Approval				
#0896-7JHHW8				
Provincial	None to report			
Officer's Order				

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 2009.

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 exceed the legislative requirement. No max day treated flows exceeded 80% of the rated treated capacity for the reporting period.

Flow	Requirement	Maximum Daily Flow	Requirement	Maximum Flow Rate
2009	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 (#3750-7FAHRN)	16,202,000 L/d	15,903 L/min Permit to Take Water (#3750-7FAHRN)	17,833 L/min
Treated Flow	18,184 m ³ /d C of A (#0896-7JHHW8)	12,797 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: 1/14/2010 d_monthlyprocessrep

Municipality: Town of Amherstburg formely (Twp of Malden, Twp of Anderdon, Town of Amherstburg) Period: 01/01/2009 to 12/31/2009

Facility: [5819] - Amherstburg Water Treatment Plant & Distribution System Serviced Population: 20,599
Works: [210000149] - Amherstburg Water Treatment Plant & Distribution System Total Design Capacity(m²/day): 18,184.0

Classification: Class 2 Water Distribution, Class 3 Water Treatment

Water Source: Detroit River

water source. D	etroit River												
	Jan/2009	Feb/2009	Mar/2009	Apr/2009	May/2009	Jun/2009	Jul/2009	Aug/2009	Sep/2009	Oct/2009	Nov/2009	Dec/2009	<- Summary ->
Raw Water\Flows	- Raw Water												
Raw Flow: Sum (r	m3/d)												
Avg	9,448.516	9,213.571	9,031.29	9,545.667	10,302.613	11,816.4	12,309.29	11,655.355	9,975.467	8,859.161	8,454.667	8,720.0	9,950.299
Cnt	31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0	365.0
Max	11,030.0	10,828.0	10,650.0	11,490.0	12,384.0	15,384.0	15,040.0	16,202.0	11,419.0	10,130.0	9,300.0	9,450.0	16,202.0
Min	7,632.0	7,733.0	7,730.0	7,447.0	8,290.0	8,583.0	9,823.0	8,708.0	8,047.0	7,680.0	7,422.0	7,906.0	7,422.0
Raw Flow: Peak ([L/min)												
Avg [6,809.194	6,760.429	7,759.129	7,484.5	7,594.71	9,937.233	9,377.903	8,724.806	7,371.5	6,610.968	6,112.4	6,281.0	7,573.562
Cnt	31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0	365.0
Max	7,708.0	8,069.0	12,994.0	17,833.0	9,076.0	15,899.0	14,236.0	11,921.0	8,635.0	8,493.0	7,246.0	6,853.0	17,833.0
Min	5,901.0	5,819.0	5,966.0	5,987.0	6,051.0	7,600.0	7,034.0	6,670.0	5,982.0	5,616.0	5,593.0	5,548.0	5,548.0
Treated Water\Flo	ws - Treated W	ater											

Treated Flow (m3/d)

meated now (i	nora)												
Avg	7,736.194	7,527.357	7,284.839	8,028.667	9,226.774	10,638.933	11,055.548	10,435.903	8,911.2	7,632.935	7,198.2	7,236.032	8,583.373
Cnt	31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0	30.0	31.0	30.0	31.0	365.0
Max	8,306.0	8,250.0	7,840.0	12,166.0	11,691.0	12,717.0	12,797.0	12,601.0	10,259.0	8,494.0	7,800.0	7,900.0	12,797.0
Min	7,130.0	6,883.0	6,636.0	7,100.0	7,864.0	9,077.0	9,080.0	7,912.0	7,777.0	6,970.0	6,417.0	6,576.0	6,417.0



Ontario Clean Water Agency Performance Assessment Report - Surface Water Supply

Printed on: 1/14/2010 d_par_swt

Municipality: Town of Amherstburg formely (Twp of Malden, Twp of Anderdon, Town of Amherstburg)

Facility: [5819] - 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: 01/01/2009 to 12/31/2009 Serviced Population: 20,599

Total Design Capacity(m³/day): 18,184.0

Raw Group Selected: RW Effluent Group Selected: TW

Water Source. Detroit River	Entretti Group Selected.															
	Jan/2009	Feb/2009	Mar/2009	Apr/2009	May/2009	Jun/2009	Jul/2009	Aug/2009	Sep/2009	Oct/2009	Nov/2009	Dec/2009	< Total>	< Avg>	< Max>	<- Criteria->
Flow																
Raw: Total Flow(m3/mth)	292,904.0	257,980.0	279,970.0	286,370.0	319,381.0	354,492.0	381,588.0	361,316.0	299,264.0	274,634.0	253,640.0	270,320.0	3,631,859.0			
Raw: Avg. Day Flow(m3/day)	9,448.5	9,213.6	9,031.3	9,545.7	10,302.6	11,816.4	12,309.3	11,655.4	9,975.5	8,859.2	8,454.7	8,720.0		9,950.3		
Raw: Max. Day Flow(m3/day)	11,030.0	10,828.0	10,650.0	11,490.0	12,384.0	15,384.0	15,040.0	16,202.0	11,419.0	10,130.0	9,300.0	9,450.0			16,202.0	
Treat: Total Flow(m3/mth)	239,822.0	210,766.0	225,830.0	240,860.0	286,030.0	319,168.0	342,722.0	323,513.0	267,336.0	236,621.0	215,946.0	224,317.0	3,132,931.0			
Treat: Avg. Day Flow(m3/day)	7,736.2	7,527.4	7,284.8	8,028.7	9,226.8	10,638.9	11,055.5	10,435.9	8,911.2	7,632.9	7,198.2	7,236.0		8,583.4		
Treat: Max. Day Flow(m3/day)	8,306.0	8,250.0	7,840.0	12,166.0	11,691.0	12,717.0	12,797.0	12,601.0	10,259.0	8,494.0	7,800.0	7,900.0			12,797.0	1
Physical/Chemical Parameters																
Raw: Max. Turbidity(NTU)	60.0	400.0	313.0	186.0	140.0	35.0	38.6	21.0	45.7	74.3	89.1	127.0		38.38	400.0	1
Treat: Min. Turbidity(NTU)	0.04	0.04	0.04	0.04	0.03	0.03	0.02	0.02	0.02	0.02	0.04	0.03		0.04		0
Treat: Max. Turbidity(NTU)	0.07	0.15	0.13	0.1	0.07	0.06	0.41	0.06	0.04	0.05	0.21	0.1		0.05	0.41	1.0
Treat: Min.Filter Turb.(NTU) []	0.02	0.02	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02		0.03		0
Treat: Max. Filter Turb.(NTU) []	0.15	0.77	0.32	0.46	0.17	15.9	0.72	0.07	0.05	0.11	0.12	0.09		0.12	15.9	1.0
Treat: Max. Nitrite(mg/L)	< 0.01		<	0.01			0.01		<	0.01				< 0.01		
Treat: Max. Nitrate(mg/L)	0.99			0.61			0.35			0.23				0.55		
Dist.: Max. Lead(ug/L)							0.72							0.72	0.72	
Dist.: Avg. THM(ug/L)	20.0			22.0			39.0			26.0				26.8		100.0
<u>Disinfection</u>																
Treat: Min. Free CL2 Resid.(mg/L)	0.98	0.9	0.62	0.81	0.92	0.93	0.87	0.96	0.99	0.96	1.05	0.97		1.06		0.6
Treat: Max. Free CL2 Resid.(mg/L)	1.62	1.3	1.33	1.26	1.2	1.27	1.49	1.2	1.48	1.16	1.18	1.25		1.13	1.62	4.0
Dist.: Min. Free CL2 Resid.(mg/L)	0.59	0.43	0.51	0.53	0.57	0.68	0.63	0.51	0.55	0.61	0.61	0.61		0.73		0.05
Dist.: Max. Free CL2 Resid.(mg/L)	1.51	1.33	1.13	1.08	1.04	1.06	0.98	1.03	0.93	1.04	1.03	1.14		0.95	1.51	4.0
No. Of Bacti Sample Collected																
Raw	4.0	4.0	5.0	4.0	4.0	5.0	4.0	4.0	5.0	4.0	4.0	5.0	52.0	1.0	5.0	
Treated	4.0	4.0	5.0	4.0	4.0	5.0	4.0	4.0	5.0	4.0	4.0	5.0	52.0	1.0	5.0	
Treat: Adverse													0	0	0	
Dist.: Adverse	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	. 0

Legend:

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

Report Submitted By:	Tim Sunderland, Operations Manager, Essex West Hub, Ontario Clean Water Agency					
Signature	Date	_				
Received By:		_				
Signature	Date	_				
Confirmed By Resolutio	of Council:					

Signature _____ Date____