



MUNICIPALITY OF

Pelee Island

Established 1868

1045 West Shore Road, Pelee Island, Ontario, Canada NOR 1M0
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March 1, 2013

The Corporation of the Township of Pelee is required to provide an *Annual Report* for its Ministry of the Environment regulated drinking water system (DWS) under Drinking Water Systems Regulation *O. Reg. 170/03*. The purpose of this letter and its attachments is to satisfy this requirement and report the dates from January 1, 2012 until December 31, 2012.

The Township of Pelee owns and operates the *Pelee West Shore Well Supply* which is a *Class 1 Water Treatment Subsystem* having a DWS registration number of 220008177. The *Treatment Subsystem* supplies two additional systems within the Township; *Pelee West Shore Distribution* and *Pelee East Shore Distribution*. All of the Township of Pelee's water systems mentioned above remain on a "Boil Water Advisory" issued by the Windsor Essex County Health Unit in 2010. This report outlines the sampling and direct connections to the *Pelee West Shore Distribution System*.

The *Pelee West Shore Well Supply* and *Pelee West Shore Distribution System* are classed as a *Small-Municipal, Non-Residential DWS* and serves a population of 7, having 4 residential connections and 1 designated facility. There are 18 total service connections. The *Pelee West Shore Well Supply* system utilizes ultra-membrane filtration, Ultraviolet Light and Sodium Hypochlorite (12% solution) injection as its methods of treatment. The treatment system utilizes continuous monitors for turbidity, Chlorine, temperature, pH and Ultraviolet dose to monitor the water entering, being treated and sent to the distribution systems. The *Pelee West Shore Well Supply* does not include fluoridation in its process.

Under *Schedule 12* of *O. Reg. 170/03* the Township is required to complete microbiological testing of its raw intake, treatment and distribution systems. Table 1 outlines these analytical results. The Township is also required to take distribution samples for various inorganic parameters under *O. Reg. 170/03, Schedule 6-1.1 (4)*. The inorganic parameter for Nitrate and Nitrite samples are required to be taken quarterly or not longer than 120 days between sampling. Three Nitrate and Nitrite samples were taken for the purpose of this report complying with the 120 day sampling program. Table 2 outlines the inorganic analytical results.

Table 1
Schedule 12 Sampling Completed
January 1, 2012 – December 31, 2012

Sample Type	# of Samples	Range of E. Coll Results min # – max #	Range of Total Coliform Results min # – max #	Number of HPC Samples	Range of HPC Results min# – max#
Raw	23	1 – 700	<2 – 800	0	NP
Treated	23	0 – 0	0 – 0	0	NP
Distribution	25	0 – 0	8 – 0	25	<10 - 190

HPC – Heterotrophic Plate Count

NP – Not Performed

Note – All analysis results in CFU's (Colony Forming Units)

Table 2
Inorganic Sampling Completed
January 1, 2012 – December 31, 2012

Parameter	Sample Date	Result	Unit of Measure	Exceedance
Lead	July 24	0.00025	Mg/L	No
Nitrate	April 11	0.7	Mg/L	No
	July 24	0.2	Mg/L	No
	October 29	0.3	Mg/L	No
	April 11	<0.1	Mg/L	No
Nitrite	July 24	<0.1	Mg/L	No
	October 29	<0.1	Mg/L	No

Mg/L – milligrams per litre

Ug/L – micrograms per litre

Under *Schedule 9 of O. Reg. 170/03* the Township is required to report the distribution grab samples and treatment operation continuous samples in this Annual Report. These results are listed below in Table 3.

Table 3
Schedule 9 Sampling Results
January 1, 2012 – December 31, 2012

Analysis	Distribution (grab sample)		Treated (Continuous Sample)	
	# taken	Min – Max	# taken	Min – Max
Free Chlorine (mg/L)	105	0.55 – 2.19	353	0.63 – 3.35
Turbidity (NTU)	NP	NP	353	0.018 – 0.097

Mg/L – milligrams per litre

NTU – Nephelometric Turbidity Units

NP – Not Performed

Note – Continuous Samples taken from Daily observation at Treatment Plant

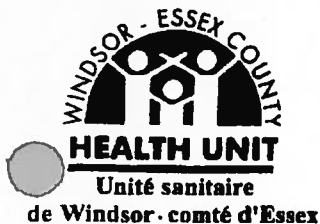
The Township of Pelee is required to include in the annual report for the year 2012 any notices submitted under *subsection 18(1) of the Safe Drinking Water Act* or *section 16-4 of Schedule 16 of O. Reg. 170/03* and reported to the Ministry of the Environments Spills Action Center. Table 4 below includes details on all notices submitted.

Table 4
Submissions to Spills Action Center for
Incidents Possible to Cause an
Adverse Drinking Water Quality Incident
January 1, 2012 – December 31, 2012

Incident Date	Indicator	Corrective Action	Corrective Action Notice Submitted
Mar. 6	Total Coliform Count of 8 cfu from Distribution Sample	Re-sample and Re-test March 12 and March 13	March 19
Oct. 30	Lost ability to notify On-Call operators of alarm situations at water plant due to loss of all cellular phone signal	To manually check on plant through out this period of time, review on-line instrument stored data each time	Nov. 5

Attached to this report is a copy of the notice provided to the West Shore Distribution System customers and the *Boil Water Advisory* issued by the Windsor Essex County Health Unit.

The Corporation of the Township of Pelee
 Environmental Services Department



* mailing address /
adresse de livraison

*** WINDSOR OFFICE**

1005 Ouellette Avenue
Windsor ON N9A 4J8

Telephone: 519-258-2146
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Administration
Fax: 519-258-6003
Health Promotion
Fax: 519-258-7288
Health Protection
Fax: 519-258-8672

*** BUREAU DE WINDSOR**

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Windsor (Ontario) N9A 4J8

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Sans frais: 800-265-5822
Administration -
télécopieur: 519-258-6003
Promotion de la santé -
télécopieur: 519-258-7288
Protection de la santé
télécopieur: 519-258-8672

ESSEX OFFICE

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LEAMINGTON OFFICE

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WEBSITE

www.wechealthunit.org

August 10, 2010

Ms. Anne Mitchell, Clerk
Township of Pelee
Pelee Island, Ontario
N0R 1M0

Dear Ms. Mitchell,

RE: Boil Water Advisory – West Shore distribution system

On Tuesday, August 10, 2010 this office received notification that a loss of pressure occurred in the West Shore distribution system on the Island of Pelee. It is our understanding that this event has occurred on several occasions and is reportedly due to the intake well having insufficient capacity. I am therefore issuing a boil water advisory for all customers of the West Shore distribution system on the Island of Pelee.

The Township of Pelee must ensure that all customers are informed of the advisory and that only bottled water, or water brought to a hard boil for one minute should be used for consumption, or food and ice preparation. Written notification must be maintained at municipal offices and the ferry. Announcements must continue to be made on the ferry serving the island.

If you require further information or clarification, please do not hesitate to contact this office.

Yours truly,

G. Allen Heimann, M.D., M.H.Sc.
Medical Officer of Health

GAH/la



THE CORPORATION OF THE
Township Of Pelee

Ontario Regulation 170/03

PUBLIC NOTICE

Adverse Conditions have arisen in the Township of Pelee West Shore Water System and the Windsor Essex County Health Unit have issued a “Boil Water Advisory” for its customers.

It is required that you seek alternative sources for drinking water or bring the water to a rolling boil for at least one (1) minute prior to use for food preparation and personal consumption

This notification is required under Section 19 of Ontario Regulation 170/03 – “Ontario Drinking Water Systems” from the Ontario Safe Drinking Water Act

Township of Pelee