



THE CORPORATION OF THE
Township Of Pelee

February 28, 2011

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 on the drinking water quality produced from the treatment plant and throughout the distribution system between the dates from January 1, 2010 until December 31, 2010.

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*, *Pelee East Shore Distribution*. 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 serve 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. Table 2 outlines the inorganic analytical results.

Table 1
Schedule 12 Sampling Completed
January 1, 2010 – December 31, 2010

Sample Type	# of Samples	Range of E. Coli Results min # – max # (CFU)	Range of Total Coliform Results min # – max # (CFU)	Number of HPC Samples	Range of HPC Results min # – max #
Raw	22	<2 – 14	2 – 300	0	NP
Treated	27	0 – 0	0 – 0	0	NP
Distribution	29	0 – 0	0 – 0	15	<10 - <10

HPC – Heterotrophic Plate Count

CFU- Colony Forming Units

NP – Not Performed

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

Table 2
Inorganic Sampling Completed
January 1, 2010 – December 31, 2010

Parameter	Sample Date	Result	Unit of Measure	Exceedance
Lead	Aug 11	0.00029	Mg/L	No
Nitrate	May 13	0.6	Mg/L	No
	Aug 11	<0.1	Mg/L	No
Nitrite	Oct 19	<0.1	Mg/L	No
	May 13	<0.1	Mg/L	No
	Aug 11	<0.1	Mg/L	No
Chloroform	Oct 19	<0.1	Mg/L	No
	May 13	6.5	Ug/L	No
Bromoform	May 13	0.1	Ug/L	No
Bromodichloromethane	May 13	4.9	Ug/L	No
Dibromochloromethane	May 13	3.4	Ug/L	No
Total Trihalomethanes	May 13	14.9	Ug/L	No

Mg/L – milligrams / Litre

Ug/L – micrograms / Litre

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

Table 3
Schedule 9 Sampling Results
January 1, 2010 – December 31, 2010

Analysis	Distribution (grab sample)		Treated (Continuous Sample)	
	# taken	Min – Max	# taken	Min – Max
Free Chlorine (mg/L)	60	0.28 – 1.98	353	0.61 – 3.08
Turbidity (NTU)	NP	NP	353	0.019 – 3.508

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 2010 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, 2010 – December 31, 2010

Incident Date	Indicator	Corrective Action	Corrective Action Notice Submitted
May 15	Chlorine <0.05 in Treated Water	Sample Distribution System, Free Chlorine not less than 0.15 mg/L	May 15
May 30	Distribution Pressure <25psi	Flush Distribution System, Sample Distribution system for Free Chlorine and Microbiological for two consecutive days	June 4
July 6	Distribution Pressure <25 psi	Flush Distribution System, Restore Distribution Free Chlorine	July 6
Aug 10	Distribution Pressure <25 psi	Flush Distribution System, Restore Distribution Free Chlorine, Boil Water Advisory Issued by WECHU, Deliver Notices to customers	Aug 17
Dec 26	Instrumentation not Recording	Physically observe plant and test distribution system for Free Chlorine three times daily	Dec 28

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

The Corporation of the Township of Pelee
 Environmental Services Department



Unité sanitaire
de Windsor - comté d'Essex

* mailing address /
adresse de livraison

*** WINDSOR OFFICE**

1005 Ouellette Avenue
Windsor ON N9A 4J8

Telephone: 519-258-2146
Toll Free: 800-265-5822
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

Téléphone: 519-258-2146
Sans frais: 800-265-5822
Administration -
télécopieur: 519-258-6003
Promotion de la santé -
télécopieur: 519-258-7288
Protection de la santé
copieur: 519-258-8672

ESSEX OFFICE

360 Fairview Avenue West,
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215, rue Talbot est
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WEBSITE

www.wehealthunit.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