



Conservation and Water Stewardship  
Office of Drinking Water  
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RECEIVED

JAN 27 2014

PWS 49.50

January 22, 2014

Reeve and Council  
Rural Municipality of Victoria  
Box 40  
Holland MB R0G 0X0

### 2013 Annual Audit Report

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Dear Reeve and Council:

Please find enclosed the 2013 Audit Report for the Cypress River Public Water System (PWS). The report indicates that the public water system has **not** met the following terms and conditions of your Operating Licence:

- Corrective action reporting

#### Update on General Chemistries

The requirement to undertake a scheduled general chemistry analysis of the raw and treated water associated with your public water system is a regulatory condition identified in Table 2 of your water system operating licence. Historically, the general chemistry sample has been collected by your regional Drinking Water Officer and has been used to fulfill this Operating Licence requirement on your behalf.

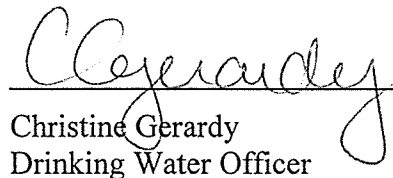
Beginning in 2013, the Office of Drinking Water stopped collecting general chemistry samples for municipal water systems serving populations greater than 1000 people and will likely continue to scale back the public water system general chemistry sampling program over time, replacing that program with targeted parameter specific studies. Water systems will be duly notified of any changes to the chemistry sampling program that affect their system directly.

Water suppliers are reminded to immediately notify the Office of Drinking Water of any condition(s) that may affect the ability of the water system to produce or deliver safe drinking water. These conditions include:

- treatment upsets or bypass conditions (including operation outside of licence conditions);
- contamination of source or treated water; or
- a disinfection, filtration or distribution system failure.

The Audit Report is based on information submitted to this office. If your records conflict with the audit information, or if you have any questions concerning this report, or any other drinking water related issues, please call me at (204) 570-1405.

Sincerely,

  
Christine Gerardy  
Drinking Water Officer

Enclosures

e-copy: Ivan Bruneau, CAO

copy: Neil Young, WTP Operator

Water System:

Code:

Operating Licence Number:

Reporting Period:

Date:

Cypress River – PWS

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PWS-08-241-01

2013

22-Jan-14

## Water Quality Standards

Percent  
Compliance

Corrective  
Action Forms

### Bacterial

<i>E. coli</i>	Less than one <i>E. coli</i> bacteria detectable per 100mL in all treated water	100	N/A
Total coliform	Less than one total coliform bacteria detectable per 100mL in all treated water	100	N/A
<i>E. coli</i>	Less than one <i>E. coli</i> bacteria detectable per 100mL in all distributed water	100	N/A
Total coliform	Less than one total coliform bacteria detectable per 100mL in all distributed water	100	N/A

**Comments:** The public water system has met its bacterial water quality standard for 2013.

### Disinfection

Chlorine residual	A free chlorine residual of at least 0.5 mg/L in water entering the distribution system following a minimum contact time of 20 minutes	99.7	0
	A free chlorine residual of at least 0.1 mg/L at all times at any point in the water distribution system	100	N/A

**Comments:** The public water system did not meet its disinfection standards for 2013. Our records indicate that the chlorine residual entering the distribution was less than 0.5 mg/L on February 23<sup>rd</sup>. Had a corrective actions form been submitted, this non-compliance situation may have been avoided.

### Chemical

		mg/L
Arsenic	Less than or equal to 0.01 mg/L	0.00252
Fluoride	Less than or equal to 1.5 mg/L	0.308
Nitrate	Less than or equal to 10 mg/L measured as nitrogen	<0.0050
Uranium	Less than or equal to 0.02 mg/L	0.00725
Benzene	Less than or equal to 0.005 mg/L	<0.50
Trichloroethylene	Less than or equal to 0.005 mg/L	<0.50
Tetrachloroethylene	Less than or equal to 0.03 mg/L	<0.50

**Comments:** The above chemistry results were taken by the Office of Drinking on December 13, 2012. The report indicated that the treated water met all health related guidelines.

Water System:

Code:

Operating Licence Number:

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## Monitoring Requirements

Percent  
Compliance

### Bacterial

Total coliform and <i>E. coli</i>	Bi-weekly sampling program with each set of samples consisting of one raw, one treated, and a minimum of one distribution sample	100
	Consecutive sample sets must be separated by at least 12 days	100
<b>Comments:</b> The public water system has met its bacterial sampling requirement for 2013.		

### Disinfection

Free chlorine (treated water)	One sample per day of water entering the distribution system following at least twenty minutes of contact time	100
Free chlorine (distribution system)	At the same times and location(s) as bacteriological distribution system sampling	100
Total chlorine (treated water)	One sample per day of water entering the distribution system following at least twenty minutes of contact time	100
Total chlorine (distribution system)	At the same times and location(s) as bacteriological distribution system sampling	100
<b>Comments:</b> The public water system has met its disinfection monitoring requirement for 2013.		

### Chemistry

General chemistry	One raw and one treated water sample once every three years	100
Lead	As per the instructions of the Drinking Water Officer	N/A
<b>Comments:</b> The Office of Drinking Water submitted water samples for chemical analysis on December 13, 2012. As a groundwater source, a chemical analysis is only required every 3 years. The next chemical analysis will be required in 2015. This action is considered to fulfill the general chemistry monitoring requirement outlined in Table 2 of the Operating Licence.		

## Reporting Requirements

Disinfection	Submit original monthly disinfection report forms within seven days after the end of each calendar month	100
Corrective Actions	Submit original corrective action report for minor exceedences as described in the most recent version of the Office of Drinking Water "Operational Guidelines for Public and Semi-public Water Systems", along with the monthly disinfection report form	See note below
Emergency	Immediately notify the Office of Drinking Water of any condition that may affect the ability of the water system to produce or deliver safe drinking water including treatment upsets or bypass conditions, contamination of the source water or treated water, a filtration or disinfection system failure, or a distribution system failure	N/A
<b>Comments:</b> The public water system did not meet its regulatory requirements for 2013 for corrective		

Water System:	Code:	Operating Licence Number:	Reporting Period:	Date:
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action reporting. I've attached Corrective Action Reports for future use. This form must be completed whenever there is a bacteria positive or low chlorine reading.

### Other Regulatory Requirements

#### *Engineering Assessment*

Due Date	March 1, 2016
<b>Comments:</b>	Public water systems are required to submit an engineering assessment every five years.

#### *Operating Licence Expiry Date*

Expiry Date	November 30, 2018
<b>Comments:</b>	Please be advised that you are required to apply for renewal of your operating licence 60 days prior to its expiry.

### Inspection

System Last Inspected	December 13, 2012
<b>Comments:</b>	Groundwater systems are inspected every two years. An inspection will be planned for 2014.