

VILLAGE OF OIL SPRINGS

SUMMARY REPORT

2014

08-Jan-15

Schedule 22 of O. Regulation 170/03 requires that a Summary Report be prepared for each year. It is to be prepared not later than March 31 and given to the members of the municipal council in the case of a drinking water system owned by a municipality. (section 22-2 (1))

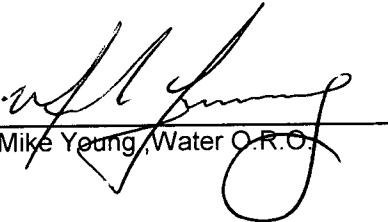
The Summary Report must list the requirements of the Act, the regulations, the system's approval, and any order that the system failed to meet at any time during the period covered by the report and specify the duration of the failure. It must also, for each failure referred to above, describe the measures that were taken to correct the failure. (section 22-2 (2))

The Summary Report must also include the following:

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

This will enable the system's owner to assess the capability of the system to meet existing and planned uses of the system. (section 22-2 (3))

If a report is prepared under subsection 1 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. (section 22-2 (4))



Mike Young, Water O.R.O.

SUMMARY REPORT

The following is a summary performance report for the Village of Oil Springs Water Distribution System. This report is for the year 2014 and is based on Schedule 22. of the O.Regulation 170/03.

2014 Water Purchased from Enniskillen (m3)

Month	Oil Heritage Road	Oil Springs Line	Monthly Totals
January	1,913	2,700	4,613
February	1,534	2,556	4,090
March	1,937	2,355	4,292
April	1,331	2,628	3,959
May	1,552	2,312	3,864
June	2,713	2,234	4,947
July	2,431	1,904	4,335
August	2,496	1,751	4,247
September	2,370	1,949	4,319
October	1,819	1,786	3,605
November	1,810	1,726	3,536
December	2,104	1,912	4,016
Total	24,010	25,813	49,823

The annual amount of water (m3) purchased from Enniskillen is as follows:

2015		2011	60,678	2011	60,678	2007	64,187	2003	70,165
2014	49,823	2010	63,392	2010	63,392	2006	60,230	2002	72,390
2013	49,230	2009	55,811	2009	55,811	2005	67,315	2001	74,426
2012	48,657	2008	56,480	2008	56,480	2004	64,915	2000	81,995

The Total amount of water accounted for in 2014 for Oil Springs was 45937

This total includes water sold to customers in the Oil Springs water distribution system and other water users including hydrant flushing, fire flows, new watermain construction etc.

The water loss factor (%) is: 8.61%

2019		2015		2011	17.01	2007	11.00
2018		2014	8.61	2010	8.21	2006	6.50
2017		2013	3.91	2009	8.81	2005	8.43
2016		2012	2.06	2008	6.63	2004	8.90

The agreement with the Township of Enniskillen provides for the supply of water for an ultimate population of 1200 in the Village of Oil Springs. The estimates of water consumption is based on 66 imp. gallons/capita/day (0.3 m3/capita/day). For a population of 1200, the average daily consumption is 79,000 imp. gallons/day (359 m3/day with an average daily flow rate of 55 imp. gpm (0.25 m3/min.), maximum daily flow rate of 138 imp. gpm (0.63 m3/min.), and a peak hourly flow rate of 206 imp. gpm (0.94 m3/min.).

HEALTH SAMPLES

The health samples include tests for the presence of E. coli, total coliforms, and background count. Any presence of E.coli or total coliforms would be considered adverse and must be reported.

Free chlorine samples were also analyzed at each site. Sample results less than 0.2 mg/l are of concern and sample results less than 0.05 mg/l are considered adverse and must be reported.

Health samples are taken on a weekly basis at 3 locations within the Village of Oil Springs water distribution system as follows:

Oil Springs Petrocan
Oil Springs Municipal Office
Water Reservoir and Pumping station where water enters Oil Springs distribution system

Chlorine residues ranged from 0.95 to 1.66 mg/L. All health samples indicated no presence of E.coli or Total coliforms. All health samples for Background were 0 cfu/100mL. All health samples for HPC. ranged from <10 to 30 cfu/1mL.

Lead sampling was conducted on April 16, 2014 with no adverse results. (attached)

CHEMICALS USED IN TREATMENT PROCESSES

There are no chemicals used in the Oil Springs Water Distribution System. A 12% chlorine solution of sodium hypochlorite is used at the Enniskillen Water Reservoir and Pumping Station immediately upstream of the water system.

EMERGENCY OR UPSET CONDITIONS

An emergency or upset condition would be a circumstance where the quality of water was threatened. There were no upset or emergency conditions in the water distribution system during the year of 2014

REVIEW OF WATER DISTRIBUTION SYSTEM

There were no reported watermain breaks in: 2014

Note:

On October 14 ,2014 a Boil Water Advisory was issued for the Oil Springs water distribution following an adverse sample taken in Petrolia. After resampling the Boil Water Advisory was lifted October 17 ,2014 , The Boil Water Advisory was issued to all the surrounding water distribution systems (Enniskillen, Oil Springs and Dawn Euphemia) as a precautionary .

RECOMMENDED WORK

1. Main meters should be replaced, (with newer, more accurat meters)when the accuracy of the old existing meters are compromised.



Works #: 260046761

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - K0L 2H0
Phone: 705-652-2000 FAX: 705-652-6365

22-April-2014

Twp of Enniskillen (Oil Springs)
Attn : Mike Young

Date Rec. : 15 April 2014
LR Report: CA19085-APR14

4465 Rokey Line, R.R.#1
Petrolia, ON, ON
N0N 1R0,

Copy: #1

Phone: 519-882-2490
Fax: excel-sample mode format, pdf

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field pH	Alkalinity mg/L as CaCO3	Lead ug/L
1: Analysis Start Date		---	---	16-Apr-14	21-Apr-14
2: Analysis Start Time		---	---	08:31	13:34
3: Analysis Approval Date		---	---	21-Apr-14	22-Apr-14
4: Analysis Approval Time		---	---	10:54	08:27
5: MAC		---	---	---	10
6: AO/OG		---	---	30-500	---
7: MDL		---	---	2	0.01
8: DW Hydrant#12 4776 Oil Springs Line 1st	11-Apr-14 09:20	8.0	7.89	---	1.16
9: DW Hydrant#2 4516 Oil Springs Line 1st	11-Apr-14 09:50	8.0	7.91	81	---
10: DW Hydrant#2 4516 Oil Springs Line 2nd	11-Apr-14 09:50	8.0	7.91	---	0.44
11: DW Hydrant#12 4776 Oil Springs Line 2nd	11-Apr-14 09:20	8.0	7.59	83	---

Field pH was not analyzed by SGS Environmental Services.
MAC - Maximum Acceptable Concentration
AO/OG - Aesthetic Objective / Operational Guideline
MDL - SGS Method Detection Limit

Patti Stark
Project Specialist Environmental Services,
Analytical