

**Ontario Regulation 170/03
2010 Summary Report For Municipalities - Schedule 22
Haley Water Treatment Plant**

Act, Regulations, C Of A, or Order, Unfulfilled Requirements

Reg. 170/03

Schedule 16: Section 16 - 4

One adverse water incident, as prescribed under this section, occurred in 2010.

A loss of system pressure on November 5, 2010, having the potential of allowing entry of non disinfected water into the distribution system, was reported to the Ministry of the Environment and the Medical Officer of Health as required under Schedule 17 of Reg. 170/03. The pressure loss resulted from a water main that was broken during construction of a new distribution system. Corrective action consisted of flushing the water mains and issuing a Boil Water Advisory which, due to the probability of additional pressure loss situations, was to remain in effect for the duration of construction. Following successful commissioning of the new distribution system, the Boil water advisory was lifted on December 17, 2010.

Certificate of Approval

None

Water Flow Rate Summary

The Certificate of Approval for the Haley Water Treatment Plant specifies a maximum peak flow rate of 115 L/m (165.5 cubic meters per day). The Permit to take Water specifies a maximum daily flow of 100 M3 per day.

Quantities and flow rates for 2010 were as follows:

Monthly Flow Rates Cubic Meters

	Total Flow	Average Daily Flow	Maximum Daily Flow	Daily Peak Flow Rates	
				Well #1	Well #2
Jan	721.0	23.3	29.9	105	107
Feb	644.9	23.0	29.9	119	96
Mar	691.4	22.3	25.7	114	102
Apr	717.7	23.9	38.8	118	118
May	817.1	26.4	52.9	138	103
Jun	711.8	23.7	35.2	140	124
Jul	802.7	25.9	39.0	143	102
Aug	717.3	23.1	28.9	124	100
Sep	679.2	22.6	32.1	105	98
Oct	761.5	24.6	31.2	112	107
Nov	1065.4	35.5	122.8*	250*	163
Dec	506.6	16.9	21.6	126	185*

Total annual flow	- 8836.6 cubic meters
Average Annual Daily Flow	- 24.3 cubic meters
Maximum Daily Flow	- 122.8* cubic meters
Maximum Daily Peak Flow Rate	- 250* cubic meters per day

As can be seen in the above summary under normal conditions the average annual daily flow of 24.3 cubic meters is equivalent to 24.3 % of the permitted maximum of 100 cubic meters per day. Similarly the maximum recorded daily flow of 52.9 cubic meters is equivalent to 52.9 % of the permitted maximum of 100 cubic meters per day. As well the maximum daily instantaneous peak flow rate of 163 cubic meters per day is within the maximum permitted instantaneous rate of 165.5 cubic meters per day.

* These maximum recorded daily flows and flow rates are in excess of the specified maximum allowed, however an exception is granted under Section 4.2(i) of the Certificate of Approval for maintenance of the drinking water system – in this case water main break repairs.

This report fulfills the requirements for the 2010 annual summary report for municipalities as required under Schedule 22 of Ontario Regulation 170/03.

February 25, 2011

David Simmons

For

Plants Department, Township of Whitewater region