

**Ontario Regulation 170/03
2009 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 - 3 (1)

One adverse water incident, as prescribed under this section, occurred in 2009.

A treated water sample taken at the Water Plant on January 8, 2009 tested at 33.6 Mg/l sodium which is above the MAC of 20 Mg/l. The test result was reported to the Ministry of the Environment and the Medical Officer of Health. Area physicians were notified about the elevated level of sodium by the Medical Officer of Health.

Schedule 16: Section 16 - 4

One adverse water incident, as prescribed under this section, occurred in 2009.

A low system pressure on September 2, 2009, 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. The pressure drop resulting from a failure in the Programmable Logic Controller reached a minimum pressure of 10 PSI. The fault was corrected, pressure was restored to 60 PSI and reported to the Renfrew County Health Unit. No further action was required.

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 2009 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	24.5	32.4	112
	156				
Feb	602.2	21.5	25.3	112	100
Mar	669.2	21.6	26.9	112	125
Apr	628.0	20.9	25.3	120	104
May	759.6	24.5	39.8	105	113
Jun	749.5	25.0	38.7	156	111
Jul	770.1	24.8	49.9	114	107
Aug	800.7	25.8	48.3	126	97
Sep	684.5	22.8	29.2	134	110
Oct	677.8	21.9	28.2	106	107
Nov	688.8	23.0	27.4	111	162
Dec	711.0	22.9	28.6	108	104

Total annual flow - 8501.1 cubic meters
 Average Annual Daily Flow - 23.3 cubic meters
 Maximum Daily Flow - 49.9 cubic meters
 Maximum Daily Peak Flow Rate - 162 cubic meters per day

As can be seen in the above summary the average annual daily flow of 23.3 cubic meters is equivalent to 23.3 % of the permitted maximum of 100 cubic meters per day. Similarly the maximum recorded daily flow of 49.9 cubic meters is equivalent to 49.9 % of the permitted maximum of 100 cubic meters per day. As well the maximum daily instantaneous peak flow rate of 162 cubic meters per day is within the maximum permitted instantaneous rate of 165.5 cubic meters per day.

This report fulfills the requirements for the 2009 annual summary report for municipalities as required under Schedule 22 of Ontario Regulation 170/03.

March 6, 2009

David Simmons

Plant Manager
 Township of Whitewater Region