

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

Act, Regulations, C of A, or Order - Unfulfilled Requirements

Regulation 170/03

Schedule 16: Section 16 - 3(1)

A water distribution system sample, taken at 3 Simmons Drive on March 30, 2010, tested at 1 Total Coliform counts/100 ml which is above the MAC. A resample was taken on March 31, 2010 by plant staff and the result of 0 count/100 ml, which is below the MAC was reported to the Ministry of the Environment and the Medical Officer of Health as required under Schedule 17 of Reg. 170/03.

Certificate of Approval

Section 7.1 – Future Alterations

Approval was obtained from Approvals and Licencing branch of the MOE to install a zebra mussel and manganese control system in the water plant. This system did not require an amendment to the Certificate of Approval but was included in the new Licence for the plant. The potassium permanganate injection system, which included mixing and solution holding tanks, metering pumps, injectors, piping and electrical and instrumentation controls, was installed and commissioned prior to zebra mussel egg production season.

Water Flow Rate Summary

The Certificate of Approval for the Cobden Water Treatment Plant specifies a maximum permissible flow rate of 1364 cubic meters 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
Jan	18352	592	818	1014
Feb	17549	627	794	1005
Mar	20975	667	819	1101
Apr	19336	644	797	1101
May	22919	739	1034	1191
Jun	21716	724	931	1208
Jul	26307	849	1090	1259
Aug	24288	783	953	1274
Sep	23024	768	1096	1207
Oct	22497	726	854	1203
Nov	20420	681	850	1200
Dec	19976	644	734	1054

Total Annual Flow	- 257359 cubic meters
Annual Average Daily Flow	- 704 cubic meters
Maximum Daily Flow	- 1096 cubic meters
Maximum Daily Peak Flow Rate	- 1274 cubic meters per day

As can be seen in the above summary the annual average daily flow of 704 cubic meters is equivalent to 51.6 % of the plant rated capacity of 1364 cubic meters per day. Similarly the maximum recorded daily flow of 1159 cubic meters is equivalent to 80.4 % of the plant rated capacity of 1364 cubic meters per day. As well the maximum daily instantaneous peak flow rate of 1274 cubic meters per day is within the maximum permitted instantaneous rate of 1364 cubic meters per day.

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