

Appendix B

Monitoring Program Station No. ALT-2 & ALT 3

Year: 2010 (As of issuance of licence: Aug. 4, 2010.)

Month: August

ALT-2 Name: Sewage Terrace Outfall Point

ALT-3 Name: Sewage Terrace Final Discharge Point

Description: Effluent Quality Results.

Notes:

The Alert Sewage Terrace System is being monitored through a parallel research study program administered by Environment Canada in Ontario; Sir Sandford Fleming College in Ontario; and 1 Canadian Air Division in Manitoba. The Alert Sewage Terrace System is managed by 1 Canadian Air Division. Water quality samples are collected and analyzed by the Centre for Alternative Wastewater Treatment (CAWT) at Sir Sandford Fleming College (CALA member #3628) and the Wastewater Technology Centre (WTC) at Environment Canada (CALA member #1390).

Summary of Results:

ALT-2 is located at the Sewage Terrace Outfall Point.

As per **Part J, Item 5**, ALT-3 is located at the weir box as the Sewage Terrace Final Discharge Point.

In reference to **Part D, Item 9**, for ALT-3, the results are summarized below:

Parameter	Maximum [] of any Grab Sample	Results from ALT-3 (Weir box)
(cBOD5)	80 mg/L	12 mg/L
Total Suspended Solids	70 mg/L	346 mg/L
Oil and Grease	5 mg/L & no sheen	No visible sheen
pH	Between 6 and 9	8.54

The Total Suspended Solids (TSS) exceeded the maximum concentration due to the construction activity of the Sewage Terrace System. The Sewage Terrace System was newly commissioned at the time of sampling in August which could explain the elevated concentration of TSS in the wastewater flow.