

## **Appendix A**

### **Monitoring Program Station No. ERK-1**

**Year:** 2011

**Name:** Sewage Treatment Facility

**Description:** Sampling of Effluent prior to release.

#### **Results:**

The Department of National Defence has no intentions or plans to release any effluent from the Sewage Treatment Facility (DND Sewage Lagoon) in 2011.

Although DND did not release effluent, samples from ERK-1 were taken for analysis as per **3BC-ERK1015, Part J, Item 3** and to collect and establish baseline conditions.

Parameter	Maximum Concentration of Any Grab Sample	Results from ERK1
BOD5	80 mg/L	<b>260 mg/L</b>
Total Suspended Solids	70 mg/L	<b>130 mg/L</b>
Fecal Coliforms*	$1 \times 10^6$ CFU/100 mL	$1.8 \times 10^3$ CFU/100 mL
Oil and Grease	No visible sheen	No visible sheen
pH	Between 6 and 9	6.82

\*Samples had exceeded laboratory holding times; Sampled on 04 June 2011, Received at Laboratory on 09 June 2011.

#### **Additional Notes:**

BOD5 and TSS were above the NWB criteria.

The effluent was not discharged from ERK1 in 2011.

Fecal Coliform water samples had exceeded the sample holding time due to the logistical challenges in high arctic regions. Transportation of samples from CFS Eureka, Nunavut, for analysis was sent to the (accredited) AGAT Laboratories in Mississauga, Ontario.

Effluent is produced during the warm season as CFS Eureka operations typically begin from early May and ending in the middle of summer (end-July). CFS Eureka is closed during the winter season period where there is no on-site staff and no waste/effluent generation. It should be noted that the opening and closing dates vary by year due to logistical and military factors.

See Appendix G for Analysis Results.