

Appendix E

Monitoring Program Station No. ERK-3

Year: 2010 (As of issuance of licence: June 18, 2010.)

Name: Landfill (East Runway Landfill)

Description: Runoff and Leachate.

Results:

No available results for the 2010 Monitoring Program season of the Landfill.

Runoff and Leachate samples required for laboratory parameter analysis for **3BC-ERK1015, Part J, Item 5** could not be obtained in 2010.

Notes:

The Department of National Defence (DND) experienced timing and logistical restraints in implementing the 2010 Monitoring Program established in **3BC-ERK1015**. The monitoring requirements of **3BC-ERK1015** were issued on June 18, 2010, and the seasonal conditions experienced at Eureka, Nunavut, were no longer suitable to collect runoff samples. The summer 2010 maintenance staff at CFS Eureka was not equipped with the required equipment to properly conduct runoff and seepage sampling, as per Part J, Items 6 and 7.

It should be noted that timing to collect runoff and seepage is difficult as CFS Eureka is located in a polar desert environment, this location receives limited precipitation per year (climate normal 1971-2000 for precipitation: 75.5 mm; Environment Canada, 2010). By the late July to September, evaporation has dominated the landscape producing little to nil runoff and subsurface seepage. By mid-September, air temperatures fall below 0 degrees Celsius, remaining water and moisture present in the soil active layer begins to freeze with complete frozen conditions experience by the end of the month.

It should be further noted that DND does not anticipate future timing issues regarding the 2011 Monitoring Program season, and is taking measures to establish a sampling schedule to capture runoff and seepage seasons based on Eureka's observed climate conditions.

Reference:

Environment Canada. 2010. Canadian Climate Normals (Precipitation) 1971-2000 for Eureka, Nunavut. Accessed online on March 4th, 2011, at:
http://climate.weatheroffice.gc.ca/climate_normals/index_e.html