



Water Resources
Nunavut Regional Office
P.O. Box 100
Iqaluit, NU, X0A 0H0

Your file - Votre référence
1BR-QIK0712

May 17, 2013

Our file - Notre référence
CIDM# 674959

Phyllis Beaulieu
Manager, Licensing
Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU, X0A 1J0

**Re: Application for Renewal and Amendment – Defense Construction Canada – FOX-5
Project, Qikiqtarjuaq Landfill Monitoring**

Dear Phyllis Beaulieu:

Aboriginal Affairs and Northern Development Canada (AANDC) has performed a review of the water licence renewal and amendment application 1BR-QIK0712 submitted by Defense Construction Canada to the Nunavut Water Board (NWB). The following advice has been provided pursuant to AANDC's mandated responsibilities under the *Nunavut Waters and Nunavut Surface Rights Tribunal Act* (NWNSRTA) and the *Department of Indian Affairs and Northern Development Act* (DIAND Act). In conducting our review, AANDC referred to the documents on the NWB's FTP-site under 1BR-QIK0712.

Should you have any questions or comments, please do not hesitate to contact me at (867) 975-4568 or by e-mail at Rory.MacDonald@aandc-aadnc.gc.ca

Regards,

Sent via Email

Rory MacDonald
Water Resources Technician

Cc. Ian Parsons, A/Manager of Water Resources, AANDC
Erik Allain, Manager of Field Operations, AANDC



Technical Review Memorandum

To: Phyllis Beaulieu – Manager of Licensing, Nunavut Water Board

From: Rory MacDonald – Water Resources Technician, AANDC

Existing Water Licence: 1BR-QIK0712

**Re: Application for Renewal and Amendment – Defense Construction Canada – FOX-5
Project, Qikiqtarjuaq Landfill Monitoring**

1. Project Description

FOX-5 is one of the Department of National Defence (DND) Distance Early Warning (DEW) sites decommissioned for remediation/clean-up. FOX-5 is located on a small island off the east coast of Cumberland Peninsula approximately 9km east of the community of Qikiqtarjuaq (formerly Broughton Island). Decommissioned in 1991, the environmental clean-up and demolition of facilities not required for operation commenced in 2001 and was completed during the summer of 2006. The project included the remediation of two (2) existing landfills and the construction of two (2) new landfills for the collection of non-hazardous wastes and collection of onsite debris generated from demolition.

DND in cooperation with Nunavut Tunngavik Incorporated (NTI) developed a landfill monitoring plan to address post closure monitoring requirements for landfills at DEW Line Sites in Nunavut (pursuant to the *September 1, 1998 Department of National Defence – Nunavut Tunngavik Inc. Agreement for the Clean-up and Restoration of DEW Sites within the Nunavut Settlement Area*). Defense Construction Canada is managing the cleanup and monitoring on behalf of DND. The objective of the landfill monitoring program is to collect sufficient information to assess the performance of the landfills from a geotechnical and environmental perspective

Defence Construction Canada is requesting a licence term of 17 years to complete a post-construction landfill monitoring program. The program consists of four main components including, visual, soil, groundwater, and thermal monitoring.

Water use will be limited as no water is required for domestic or construction purposes. Small quantities (approximately 1L) of water will be taken from existing monitoring wells to carry out the monitoring program. Wastes associated with this program will be <1m³.

2. Results of Review and Recommendations

AANDC Water Resources Division offers the following comments and recommendations for the Board's consideration.

A. General

- AANDC finds the following application to be complete.
- Defense Construction Canada has not provided annual reports for 2007, 2008, 2009, 2010, and 2012. Part B, Item 1 – General Conditions of the water licence 1BR-QIK0712 requires the licensee to provide the Board with annual reports for each year of the appurtenant undertaking. AANDC notes that there has been correspondence between DCC and the Board regarding the submission of monitoring reports; however it is recommended that annual reports be submitted each year outlining what work, if any has been conducted on site as per licence conditions.



- The contact information for the “AANDC Water Resources Inspector” listed in Section 3.2 of the submitted Spill Contingency Plan is incorrect and should be replaced with the contact information for AANDC’s Manager of Field Operations. The manager can be reached by telephone at 867-975-4295 and fax at 867-975-6445.