



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

July 19, 2011

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

Your file - Votre référence
1BR-RBL----
Our file - Notre référence
CIDM# 472131

**Re: 1BR-RBL---- New Water License Application – Resolute Bay Landfill
Remediation – Transport Canada – Qikiqtani Region**

Aboriginal Affairs and Northern Development Canada (AANDC) has performed a review of the new water license application, 1BR-RBL---- (Resolute Bay Landfill Remediation, Resolute Bay Airport), submitted by Transport Canada (TC) to the Nunavut Water Board (NWB). The following advice has been provided pursuant to AANDC's mandated responsibilities for the enforcement of the *Nunavut Waters and Nunavut Surface Rights Tribunal Act* (NW&NSRT Act) 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-RBL----.

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

Sincerely,

Original Signed By

Eva Paul
Water Resources Technician, Aboriginal Affairs and Northern Development
Canada, Nunavut Regional Office

Cc. Tanya Trenholm, A/Manager, Water Resources, Aboriginal Affairs and
Northern Development Canada, Nunavut Regional Office
Bernie MacIsaac, Director of Operations, Aboriginal Affairs and Northern
Development Canada, Nunavut Regional Office



Technical Review Memorandum

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

From: Eva Paul – Water Resources Technician, Aboriginal Affairs and Northern Development Canada, Nunavut Regional Office

Re: 1BR-RBL---- New Water License Application – Resolute Bay Landfill Remediation – Transport Canada – Qikiqtani Region

Project Description

On June 23, 2011 the Nunavut Water Board (the Board) distributed Transport Canada's (TC) application for a Type B water licence to allow for the disposal of waste associated with the Resolute Bay Landfill Remediation Project. TC has requested a licence term from July 2012 to September 2015.

The Resolute Bay Airport Landfill sites include the solid waste landfill and the historic landfill, both situated near the airport, and the vehicle storage area to the north of the airport. The landfills span a period from the late 1940's to the late 1990's, and are known to contain petroleum products, paints, household chemicals, and solvents. The project aims to remediate the sites over a period of four years. This will include the recovery and removal of recyclable non-hazardous waste, the removal and proper disposal of hazardous waste, the landscaping and closure of the landfills, and monitoring of contaminants throughout. No water use is anticipated and no hazardous materials will be kept on-site.

Results of Review

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

1. AANDC recommends that the proponent refer to the AANDC publication: *Abandoned Military Site Remediation Protocol; 2008, Vols I & II* to complete the items suggested in this review. Remediation protocols and monitoring should meet or exceed the standards described in this guide.
2. AANDC recommends that an Operation and Maintenance plan be requested from the proponent following the completion of the remedial options study.



3. AANDC would like to request confirmation that fill/cover material be from a non-potentially acid generating source.
4. AANDC recommends that the Spill Plan be updated prior to the field season to include the following information:
 - a. An onsite contact number.
 - b. Applicable Material Safety Data Sheets.
5. In the spill plan, the proponent identifies the use of a Land Treatment Unit for fuel-contaminated soil. AANDC requests clarification on whether this LTU exists under a current water licence, and confirmation that this use will not exceed the capacity of the Land Treatment Unit.
6. AANDC recommends that a detailed monitoring program be developed, including the use of thermal monitoring.
7. Although the licence application requests a licence term to September 2015, the schedule in the Spill Plan discusses monitoring and closure occurring in 2016. AANDC would suggest that the licence term be extended to include the 2016 operations.

AANDC supports the issuance of a water licence for this remediation project, which includes the water license terms and conditions typically assigned to applications of this nature by the NWB.

Cc. Tanya Trenholm, A/Manager, Water Resources, Aboriginal Affairs and Northern Development Canada, Nunavut Regional Office
Bernie MacIsaac, Director of Operations, Aboriginal Affairs and Northern Development Canada, Nunavut Regional Office