

Nunavut Water Board License 3BC-KAR0812: A Response to Outstanding Issues Pertaining to Karrak Lake Research Station, Nunavut, Operated by Environment Canada

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The following is in response to outstanding issues communicated by email from Ida Porter (Nunavut Water Board) to Ray Alisauskas and Dana Kellett. Contents of the email are indicated in bold type.

In addition the, following terms and conditions in the licence that should have addressed, but were not, after the licence was issued on June 14, 2008:

- a. Part B, Item 2: The Licensee shall file an Annual Report on the appurtenant undertaking with the Board no later than March 31st of the year following the calendar year being reported which shall contain the following information:**

a. A summary report of water use and waste disposal activities;

Water use during the 2009 field season (20 May to 15 August 2009) was for domestic purposes only, at a rate of 20-40L per day. Prior to melt, water was obtained by melting ice from Karrak Lake. During and after ice-breakup on Karrak Lake, water was obtained by pumping into a 175 L holding tank located on the deck of the main cabin. Water was treated with 5% chlorine bleach prior to use. Disposal was by leaching into soil at least 100 m from the high water mark of Karrak Lake.

b. A list of unauthorized discharges and a summary of follow-up actions taken;

No unauthorized discharges occurred during the 2009 field season.

c. An up-to-date copy of the Spill Contingency Plan, including contact information;

An updated copy of the Spill Contingency Plan is included with the response email.

d. A description of all progressive and or final reclamation work undertaken, including photographic records of site conditions before, during and after completion of operations;

Blackwater, ash from incinerated waste, and food waste were buried in pits located at 100+ m from the high water mark of Karrak Lake. I neglected to take photos of recent disposal pits during 2009, but will rectify this during the upcoming field season. However, below is a photo of an older disposal pit, circa 1999.



e. A summary of all information requested and results of the Monitoring Program; and
Progress reports from research activities were submitted with the Water License amendment request.

f. Any other details on water use or waste disposal requested by the Board by November 1 of the year being reported.

To our knowledge, no information pertaining to water use or waste disposal has been requested since the License approval.

b. Part G, Item 2: The Licensee shall submit within thirty (30) days of issuance of the Licence, an Addendum to the Plan referred to in Part H, Item 1, to include the following:

- 1. A Cover Page;**
- 2. Table of contents;**
- 3. Procedures for spills on snow;**
- 4. Procedures for spills on ice;**
- 5. Procedures for spills in water;**
- 6. Details on reporting requirements;**
- 7. 24 Nunavut Spill Report Line, 867-920-8139;**
- 8. INAC Manager of Operations (Inspection) 867-975-4295;**
- 9. Environment Canada 24 hour pager, 867-766-3737;**
- 10. Update Environmental Protection, 867-975-7700;**
- 11. Spill Report Form (available on NWB ftp site);**
- 12. Information on spill training provided;**
- 14. Address issues in INAC comments.**

These items have been addressed in the updated Spill Contingency Plan, entitled “Spill Contingency Plan for Karrak Lake Research Station and F-14 Satellite Camp”, and is attached to the response email.

- c. **Part H, Item 1: The Licensee shall submit to the Board for approval within sixty (60) days of issuance of this Licence, an Abandonment and Restoration Plan prepared in accordance with applicable sections of the "Guidelines for Abandonment and Restoration Planning for Mines in the Northwest Territories (1990)".**

An Abandonment and Restoration Plan entitled “Abandonment and Restoration Plan May2010” has been drafted and is attached to the response email.