



Water Resources Division
Nunavut Regional Office
Iqaluit, NU
X0A 0H0

NWB File: 3BM-BAK1015
CIDMS #: 474332

July 28, 2011

**Re: 3BM-BAK1015 – Operation and Maintenance (O&M) Plans for the
Water Supply System, Sewage Disposal System, Solid Waste
Disposal Facility and Spill Contingency Plan – Hamlet of Baker Lake.**

Please be advised that the Water Resources Division of Aboriginal Affairs and Northern Development Canada (AANDC) have completed a review of the O&M plans and spill contingency plan of 3BM-BAK1015 from Nunami Stantec on behalf of the Hamlet of Baker Lake. The NWB circulated the O&M plans and spill contingency plan for comments on June 28, 2011. All documents related to the application posted on the NWB ftp site under 3BM-BAK1015 were included in my review (See attached Technical Review Memo).

Should you have any questions or comments, please do not hesitate to contact me at (867) 975-4282 or by email at Ian.Parsons@aandc-aadnc.gc.ca.

Sincerely,

Original signed by

Ian Parsons
Regional Coordinator



Technical Review Memorandum

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

From: Ian Parsons – Regional Coordinator, Aboriginal Affairs & Northern Development Canada.

Re: 3BM-BAK1015 – Operation and Maintenance (O&M) Plans for the Water Supply System, Sewage Disposal System, Solid Waste Disposal Facility and Spill Contingency Plan – Hamlet of Baker Lake.

Background

The Hamlet of Baker Lake has a population of approximately 1900 and is located on the Northwestern shore of Baker Lake adjacent to the mouth of the Thelon River in the Kivalliq Region of Nunavut.

Recommendations/Comments

Water Supply System Facility

As upgrades to the water supply facility are expected to be completed in 2012, AANDC recommends that the applicant submit an updated operation and maintenance plan upon the completion of upgrades to the supply facility.

AANDC notes that in the 2010 inspection water sampling was not completed on a daily basis.

Sewage Disposal System Facility

Section 2.2 of the O&M plan mentions an additional holding cell. However, Section 4.4 makes no mention of an additional holding cell. Clarification is required as to whether or not 2 engineered holding cells will be used.

AANDC also notes that in the 2010 inspection of municipal facilities there are several compliance issues with the sewage disposal facility. Notably the discharge quality of the effluent did not meet water license requirements at Station 5 (Inflow to Finger Lake) and Station 2 (Outflow to Airplane Lake).

The 2010 inspection report also noted unacceptable conditions of the sewage disposal facility concerning freeboard, erosion and seepages. AANDC notes that



upgrades have been completed by the Hamlet, including the creation of an additional (second) holding cell, the addition of a liner within the berm, strengthening and raising the berms of the original holding cell were completed in the fall of 2010. AANDC looks forward to seeing how the upgrades have improved past deficiencies.

Solid Waste Disposal Facility

AANDC recommends that all hazardous wastes be properly stored and disposed of as per the Government of Nunavut Environmental Guideline for General Management of Hazardous Waste in Nunavut.

Efforts should be made to segregate the different types of wastes being deposited into the solid waste facility.

Spill Contingency Plan

AANDC recommends that all fuel be contained in secondary containment. Additionally, AANDC recommends the use of drip pans when refuelling.

AANDC notes that in the 2010 inspection there was no control or attempt to control several leaks and spills from the hazardous wastes area within the solid waste facility.

INAC recommends that the spill contingency plan be employed whenever leaks or spills are found to be occurring.

Correct contact information for AANDC in the Spill Plan is:

Peter Kusugak – Manager of Field Operations, AANDC
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fax 867 975-6445.

Additional contact information is:

Andrew Keim –Water Resource Officer, Field Operations, AANDC,
phone 867 975 4298,
fax 867 975-6445.

Cc. Tanya Trenholm, A/Manager of Water Resources – Aboriginal Affairs and Northern Development Canada, Nunavut Regional Office
Andrew Keim, Water resources Officer - Field Operations – Aboriginal Affairs and Northern Development Canada, Nunavut Regional Office