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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

File No.: 3AM-ARV1015/TR/D5/D14

April 29, 2011

Ed Murphy, SAO
Hamlet of Arviat
P.O. Box 150
Arviat, Nunavut X0C 0E0
Email: arviatsao@qiniq.com

RE: *Submission of the Sewage Disposal Facility Report and Solid Waste Management Report, Required under Part D, Item 5 and Part D, Item 14 of Licence 3AM-ARV1015*

Dear Mr. Murphy:

The Nunavut Water Board ("NWB") received on February 15, 2011 from Nuna Burnside Engineering and Environmental Ltd., on behalf of the Hamlet of Arviat, the following documents as required under water Licence 3AM-ARV1015, which was issued to the Hamlet of Arviat on August 23, 2010.

1. Sewage Disposal Facility Report, required under Part D, Item 5.
2. Solid Waste Management Report, required under Part D, Item 14.

Following receipt, the NWB conducted a preliminary technical review of the documents before distributing on February 18, 2011 to interested parties and persons for a thirty-day comment and/or review period, with the deadline for comments being set for March 21, 2011. Submissions¹ were received from Environment Canada (EC) and Indian and Northern Affairs Canada (INAC). Both of the intervening Parties provided recommendations pertaining to expanding the scope and functionality of the reports.

The NWB, in reviewing the documents and considering the submissions made, has determined that the Reports are acceptable and consistent with requirements in the Licence. The Board has therefore approved the Reports under **Motion #: 2011-04-15** on April 27, 2011. However, to address issues raised by the intervening parties, the Licensee is required to include the following revisions to the approved reports and submit in the form of an addendum when addressing the requirements in Part F, Item 1 and Part F, Item 2 under the terms and conditions in the Licence. The addendums shall respectively address and/or include the following items:

¹ Environment Canada (EC), March 21, 2011 and Indian and Northern Affairs Canada (INAC), April 1, 2011.

Solid Waste Management Report

- measures to reduce and/or eliminate water ponding at the southeast and southwest corners as well as other areas of the landfill;
- measures to retain, treat and test all water that have accumulated within the Solid Waste Facility;
- information pertaining to suitable, alternative source of material, instead of contaminated soil, to be used as cover material for the landfill; and
- measures to improve general conditions of the Solid Waste Facility: cleanup of contaminated soils at the waste storage area, placement of an impermeable liner under the drums used to store hazardous waste, the use of secondary containment and berms for accidental spills, labeling of hazardous substances and restricting access to the site.

Sewage Disposal Facility Report

- Include in section 3.0 of the Plan information on seasonal variation in water levels in the lagoon system;
- The locations provided for ARV-4 in sections 6.2.1 and 7.0 of the Plan should be made consistent with the location listed under Part H, Item 1 in the Licence.
- Include measures and frequency for monitoring exfiltration rates;
- Include measures for monitoring sludge depth on a yearly basis; and
- Include the results of a Geotechnical Inspection of the Sewage Disposal Facility conducted by a Professional Engineer. The inspection should assess, among other structures, the berms of the lagoon as well as evaluate the impacts of sewage seepage, through the berms, on the environment as required under Part D, Item 5c of the Licence.

The Licensee is reminded that any documents required under the terms and conditions of the Licence should be submitted on or before the date that the document is due.

Should you have any questions, please feel free to contact the undersigned at 867-360-6338 ext. 25 or by email at sjoseph@nunavutwaterboard.org.

Yours truly,

Original Signed By:

Sean Joseph
Technical Advisor
Nunavut Water Board

Cc: Distribution List – Kivalliq Region