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Submitted Via E-Mail
Our File: NWB6FOH0409
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February 4, 2008

North Warning System Office
c/o National Defence Headquarters
101 Colonel By Drive
Ottawa, ON. K1A 0K2
Attention: Maj. A. Cameron – R&C 3-4

RE: Water License Inspection of Hall Beach L.R.R. Station – July 16th, 2007

The Water Resources Officer (WRO) appreciates the assistance and cooperation provided by Mr. Bill Rae who accompanied the Inspector during the inspection of the site.

The following report is based on observations made at the time of the inspections at the Hall Beach Long Range Radar Station (FOX E MAIN) . A review of the terms and conditions of the water license was conducted during the Inspection.

Immediately following the inspection a Water Use Inspection Form outlining the concerns of the inspector was signed off by the Licensee's representative and the Inspector.

Part A: Scope and Conditions

No issues were found with respect to the location of the camp as it relates to the information contained within the current license. The current license was issued June 25th, 2004 to the Department of National Defence, Government of Canada.

The license, as issued, is a Type "B" license classed as Municipal undertakings.

Part B: General Conditions

A review of the Nunavut Water Board FTP – Public Registry was conducted during the writing of this report. An annual report for the 2006 annum, completed by Nasittuq Corp was located. This report is a requirement under the terms and conditions of the Water License. The annual report must include but should not be limited to those items listed in Section 1 (i) through (vi) of this Part.

Upon review of the report it was noted that the report was deficient in the following;

- No monthly or annual quantities of water use or waste disposal were provided.
- No summary of data collected under the monitoring program was provided.

The Licensee is reminded that the Nunavut Water Board has a generic form available to all Licensees on their web page. This form provides the licensee with a template to ensure complete and accurate reports are filed. The Licensee is encouraged to use this sheet in the future.

The proponent is reminded that an annual report is required to be filed by March 31st 2008 for the year ending December 31st 2007. The annual report **must** include but not be limited to those items listed in Section 1 (i) through (vi) inclusive, of this part as well as any information required by the Inspector.

Failure to file a complete report as outlined in the license is a violation of the Act and will subject the licensee to the enforcement measures and penalties provided for under the Act.



The licensee is reminded that it is the responsibility of the licensee to ensure that any documentation submitted by the licensee to the Nunavut Water Board is acknowledged by the Manager of Licensing.

During the period of inspection an estimated volume of 250,000 US gallons of water had been used to date.

Part C: Conditions Applying To Water Use

At the time of the inspection the licensee was allocated the use of 10 Cubic meters of water per day for all purposes. Water of all uses is to come from the designated Water Supply Lake which is the same lake used by the Municipality of Hall Beach. No samples of the potable water source were collected during the inspection of the LRR facility, as samples of this site had previously been collected during the inspection of the Municipal License.

The Licensee is reminded to ensure that the intake hoses are equipped with a screen to prevent the entrapment of fish.

An inspection of the intake system was conducted, a filter system and UV system were both present and in working order. The Facility was well kept and organized.

Part D: Conditions Applying to Waste Disposal

During the inspections of the camp the following items were noted and brought to the attention of Mr. Rae during the period of inspection.

As per section 2 of this Part:

2. The Licensee shall ensure that all hazardous wastes and waste oil generated through the course of the operation are disposed of in an approved hazardous waste disposal site outside of Nunavut

No incinerator was found to in use or present on site. However, a large metal burn box was found to be on site. The burn box contained partially burned; florescent light tubes, 1 gallon paint cans, aerosol cans and other materials.

The Licensee is cautioned that further instances of non-compliance will result in the Licensee being the subject of enforcement and compliance actions as set out in the Nunavut Waters and Nunavut Surface Rights Tribunal Act. .

As per Section 3 of this Part;

3. The Licensee shall direct all Sewage to the Sewage Disposal Facilities or as otherwise approved by the Board.

An inspection of the grey water/ black water outfall area was not able to locate a sump, natural depression, Lagoon or retention pond to which the waste is deposited. The Licensee is asked to provide clarity on the location of the final discharge point being used and a report on the maintenance and management of this facility including the results of the sampling required under the Monitoring Program.

The Licensee is reminded to include in the 2007 annual report due on March 31st 2008 a list of hazardous materials shipped out of the camp, and the location of the approved treatment facility to which they were sent. All of the foregoing is required information to be included in the annual report. Shipping and receiving invoices are not required so long as the records are available for inspection during the 2008 inspection season.



Part E: Conditions For Camps and Access Infrastructures

No issues were brought to the attention of the inspector under this section.

Part F: Conditions Applying To Emergency Response

A review of the Water Board FTP site could not locate an approved Emergency Response Plan which as per Section 2 of this part was to have been revised within 30 days of the issuance of the current license.

If the required Plan has been submitted to the Nunavut Water Board for approval, the Licensee is directed to provide a copy of the plan as well as a copy of the approval from the Nunavut Water Board to the Inspector within 30 days of receipt of this Inspection Report.

The licensee is reminded that it is the responsibility of the licensee to ensure that any documentation submitted by the licensee to the Nunavut Water Board is acknowledged by the Manager of Licensing.

If an approved plan can not be located, the Licensee is directed to provide, as an addendum to the 2007 Annual report, due on March 31st 2008 a revised and up to date copy of the Emergency Response plan.

The Licensee is reminded that as per Section (iii) of this Part the Licensee is required to submit a detailed report on each spill occurrence no later than 30 days following the initial event.

Part G: Conditions Applying To Abandonment And Restoration

As noted in the current License issued by the Nunavut Water Board the licensee is required to submit Abandonment and Restoration Plans 6 months prior to the completion of on site activities.

Part H: Conditions Applying To Monitoring Programs

The following items are to be addressed by the Licensee by the period of the next inspection.

As per section 2 the Licensee is required to sample, once per month, between the months of May to August inclusive, the following parameters from the final discharge point of the treatment facility (FOH 2);

BOD	Faecal Coliforms
pH	Conductivity
Total Suspended Solids	Ammonia Nitrogen
Nitrate-Nitrite	Oil and Grease
Total Phenols	Sulphate
Sodium	Potassium
Magnesium	Calcium
Total Arsenic	Total Cadmium
Total Copper	Total Chromium
Total Iron	Total Lead
Total Mercury	Total Nickel
Total Zinc	

As per section 6 of this Part the Licensee is reminded that the results of the above sampling are required to be submitted in the Annual Report as per Part B Section 1(ii).

As per Section 3 of this Part the Licensee is to measure and record in cubic meters the monthly and annual quantities of water utilized for Camp operations and all purposes.

As per Section 4 of this Part the Licensee is to measure and record in cubic quantities the monthly and annual quantities of treated sewage discharged at Monitoring station FOH-2.



The Licensee is reminded that failure to comply with the terms and conditions of the issued water license constitutes an offence under the Nunavut Water and Nunavut Surface Rights Tribunals Act.

Non-Compliance:

During the inspection a number of items were noted and are to be corrected before the period of the next Inspection.

- Open burning of hazardous wastes is to cease – Verbal direction provided on July 16th, 2007
- Location of the treatment facility where hazardous wastes generated or marshalled on site are to be shipped- to be included in annual report.
- Submission of Emergency Response Plan and approval of the Nunavut Water Board as addendum to 2007 annual report.
- Installation of metering system to accurately record water use.
- Submission of sampling results from the Monitoring Program as an addendum to the 2007 annual report

Andrew Keim
Inspector's Name

Inspector's Signature

Attached under separate cover;
Photos taken during Inspection of July 16th, 2007

Cc:

Peter Kusugak – Manager Field Operations Section- Indian and Northern Affairs Canada
Phyllis Beaulieu – Manager licensing – Nunavut Water Board















