



Inspection Report

License #: 3BM-PAN

Inspector: A. Keim

CIDMS # 367901

Client	Municipality of Pangnirtung		
Mailing Address	Box 253		
Inspection site location	Pangnirtung , Nunavut		
Contact name	Ron Mongeau	Title	SAO
Last inspection date	August 17, 2008		
Inspection start date	July 27, 2009		
Region	Qikiqtani		



INAC, Nunavut District
P.O. Box 100
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Iqaluit, NU, X0A 0H0

Submitted Via E-Mail
Our File: 3BM-PAN0810
Your File: _____
CIDM # 367901

November 24, 2009

Ron Mongeau
Senior Administrative Officer
Box 253
Pangnirtung, Nunavut
XOA ORO

RE: July 27, 2009 Municipal Water Licence Inspection

The following inspection report is generated on an inspection conducted to determine compliance with the terms and conditions of the water license issued to the Municipality of Pangnirtung by the Nunavut Water Board (NWB).

The following report references the applicable parts of the current Water License (3BM-PAN0810) and the findings observe and documented during the Inspection. During the writing of this report a review was undertaken of the documents located on the Nunavut Water Board's FTP site.

The Inspector would like to thank SAO Ron Mongeau for taking the time to meet following the inspection and for reviewing with the Inspector those items that required actions on the Part of the Licensee to ensure compliance with the issued License.

Previous findings:

2006 – Direction issued by Indian and Northern Affairs Canada

2007 – Direction recommended by Inspector

2008 – Direction recommended by Inspector

2009 – Recommendation to Issue a Direction and require a Compliance Plan submission

Issues identified by the Inspector during the 2008 Inspection were as follows;

Issues with a known or anticipated human health impacts;

- Failure to segregate and properly dispose (bury) wastes in the bulk waste facility continues to pose significant risks.

Issues where there is a known or anticipated environmental impairment;

- Failure to consolidate and segregate Sewage Sludge from the Waste Water Treatment Facility stored in the Solid Waste Management Facility.
- Failure to take steps to control and mitigate runoff from the Solid Waste Management Facility.

Issues where there is a known or suspected violation of a requirement of the Water License;

- Failure to submit required Annual reports.
- Failure to maintain the appropriate signage, and Surveillance Network Program (SNP).
- Failure to implement the requirements listed under the Monitoring Program.
- Failure to develop and submit for approval to the NWB the required Operation and Maintenance Manuals for the Water Supply Facilities and the Solid Waste Disposal Facilities.
- Failure to comply with the Inspector's Direction issued in 2006.



During the period of the 2009 Inspection the following issues were identified;

- The Licensee has not filed the required Annual reports as required under Part B (1 a through i)).
- Work to address the previously identified issues in the Solid Waste Disposal facility remains outstanding;
 - Sewage Sludge (bagged) from the treatment facility remains within the facility adjacent to an overflowing pit of fish processing wastes.
 - Commercial Fish wastes, as per the terms of the Water License are to be stored in a pit that has been excavated below the level of the permafrost thus to facilitate encapsulation of these wastes. This has not taken place as was evidenced by the inspectors.
 - Segregation of materials within the dump was also nonexistent.
 - Signage within and around the facility has not yet been installed.
- The Licensee has not undertaken works to address issues of segregation and management of hazardous materials in the Solid Waste Disposal facility.
- Works to address the release of sludge from the Old sewage pump out location (ditch) have not been undertaken by the licensee. *(It is to be noted that this is not a Lagoon but rather a ditch off the main road with a flow channel leading down to the Fiord.)*
- A lack of overall holding capacity within the WWTP has resulted in modifications being undertaken by the Government of Nunavut Department of Community and Government services on behalf of the licensee. The result of the modifications is unclear; however, the following are the results of sampling conducted during the Inspection of July 27, 2009.

Parameter:	Result	NWTELS ¹ Criteria
Aluminum	5720 µg/L	2000 µg/L
Iron	1210 µg/L	300 µg/L
T.S.S	253 mg/L	180 mg/L- License criteria (3BM-PAN0810)

Non-Compliance: Issues identified during the July 27th, 2009 inspection and/or review of relevant material.

Issues with a known or anticipated human health impacts;

- Failure to segregate and properly dispose (bury) Fish wastes and sewage sludge in the bulk waste facility continues to pose significant health risks.
- Sewage treatment in the community continues to return sampling results which exceed the NWT Limits for Effluent Parameters for Specific Discharges criteria and License criteria.
- Failure to submit results to the Nunavut Water Board demonstrating that effluent discharged from the Waste Water Treatment Plant is not acutely toxic under the following tests;
 - a. Acute lethality to Rainbow Trout, *Oncorhynchus mykiss* (as per Environment Canada's Environmental Protection Series Biological Test Method EPS/1/RM/13); and
 - b. Acute lethality to the crustacean, *Daphnia magna* (as per Environment Canada's Environmental Protection Series Biological Test Method EPS/1/RM/14)
- The Licensee failed to collect and submit for analysis the samples required on the Monitoring Program.

Issues where there is a known or anticipated environmental impairment;

- Failure to consolidate and segregate Sewage Sludge from the Waste Water Treatment Facility stored in the Solid Waste Management Facility.
- Failure to undertake works to mitigate and remediate such lands and waters as were effected by the run off and release of impacted soils from the "Old Pump-out Location".

¹ NWT Limits for Effluent Parameters for specific Discharges Criteria



Issues where there is a known or suspected violation of a requirement of the Water License;

- Failure to submit as required a complete Annual report (Part B(1)).
- Failure to comply with the Monitoring Program (Part H (2, 3, 4, 5, 6).
- Failure to submit as required a Plan for Compliance (Part B (10)).
- Failure to Submit results of Acute Toxicity testing (Part D (3)).
- Failure to dispose and contain fish wastes as outlined in the issued License (Part D (6)).
- Failure to develop and submit an Operation and Maintenance Manuals (Part F (1)).
- Failure to submit the required geotechnical Inspection report to be completed annually in July (Part F (3)).
- Failure to comply with an Inspectors Direction issued in 2006.

The Municipality of Pangnirtung continues to operate in Non-conformity with the terms and conditions of the Water License issued in 2008. The Licensee is strongly encouraged to contact the Nunavut water board and the inspector to determine the requirements necessary to achieve and maintain compliance with the issued license and the Act.

A. Keim

Inspector's Name

Inspector's Signature

Cc:

Peter Kusugak –Manager Field Operations - Indian and Northern Affairs Canada

Phyllis Beaulieu – Manager licensing – Nunavut Water Board





















