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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

File: 3BM-GRI0308

December 8, 2008

The following summary report is a reflection of all information received as of December 8, 2008 from the Licensee and INAC inspectors with regards to Licence 3BM-GRI0308. This was completed in response to a renewal application for the Hamlet of Grise Fiord's municipal water Licence which expired on November 15, 2008.

Subject: Assessment of Administrative Compliance for Municipal Water Licence Renewal

The Nunavut Water Board ("NWB") has taken the opportunity to summarize the information regarding water Licence 3BM-GRI0308, to review the public registry files and confirms that the following information is on file with the NWB, with respect to the requirements of the Licence.

LICENCE

Original Licence issued: November 15, 2003

Renewal of Licence: n/a

Amendment issued: n/a

Licence expiry: November 15, 2008

SCOPE, DEFINITIONS AND ENFORCEMENT

INAC Inspection Reports/Communications:

Date of Inspection or Letter:	Received:
January 11, 2000 (Inspection)	January 20, 2000
July 20-21, 2001 (Inspection)	November 16, 2001
March 12, 2002 (Letter)	March 12, 2002
March 13, 2002 (Letter)	March 13, 2002
July 31, 2003 (Inspection)	September 30, 2003
August 19, 2006 (Inspection)	November 21, 2006

Issues raised in the 2000 inspection report:

- Non compliance: at the time of the inspection the community did not have a water Licence.
- Sewage facility: the sewage facilities' chute for receiving dumped sewage from trucks was frozen at the time of inspection and as the result a different dumping location into the sewage lagoon was being used.

Issues raised in the 2001 inspection report:

- Water supply: The INAC inspector raised concerns that the Hamlet's water facilities would not be sufficient for the entire year. The inspector noted that an additional storage tank was being planned to increase the communities' water supply.

- Sewage facility: The sewage disposal facility at the time of inspection had little freeboard due to the fact that the annual decant was to take place shortly. The inspector suggested that a decant line with a small diameter be used to slow the rate of release and increase the time available for aerobic digestion and secondary biological treatment. It was also noted during this inspection that there were veins of seepage at the downslope berm of the facility. The inspector makes note that the old sewage lagoon cell and honeybag pit were both partially reclaimed.
- Solid waste disposal: Segregation was in place at the site during inspection including the sequestering of wood, hazardous materials and bulky metal wastes from the combustible household wastes. A path of runoff from the solid waste disposal facility was observed during the inspection. The leachate was tested and found to exceed the Canadian Water Quality Guidelines for the Protection of Freshwater Aquatic Life for the parameters of ammonia (857ug/L vs 300 ug/L), cadmium (0.6ug/L vs 0.017 ug/L) and iron (857ug/L vs 300ug/L). The sample was tested and was concluded to be non-toxic.
- Other: The community has numerous drums of unknown contents that must be sealifted south for disposal. The inspector also noted that the solid waste disposal facility does not have fencing around the landfill but the hamlet plans to implement one and that the hamlet was looking to secure a sealift container to hold hazardous materials. The inspector states that both these actions will significantly reduce the likelihood of waste being deposited into waters.
- Non compliance: At the time of inspection the hamlet did not have a water Licence.

Issues addressed in the March 12, 2002 letter:

- Non compliance: INAC notifies the community that they are still in non-compliance for not having applied to the Nunavut Water Board (NWB) for a water licence.

Issues addressed in the 2003 inspection report:

- Sewage Disposal: The sewage lagoon was in good condition. Some seepage was observed. The lagoon had sufficient freeboard for the rest of the season.
- Solid Waste Disposal: Waste oil was found near a creek. The inspector instructed the municipality to relocate the drums. The inspector recommends that all the drums be placed in one location that is flat and dry. The dump was found to be poorly segregated with excessive surface water draining through it. Batteries at the site were not properly stored in a container. Bulky waste was scattered throughout the dump.
- Non compliance: At the time of inspection the hamlet did not have a water Licence.

Issues addressed in the 2006 inspection report:

- Water supply: The inspector made note that there was still no fence around the potable water resupply catchment.
- Waste oil storage: No immediate concerns identified.
- Non compliance: The drums and transformers that were well within 30 meters of the high water mark during the 2003 inspection were still at the same location during the 2006 inspection.

GENERAL CONDITIONS

Annual Report:

Year Reporting:	Received:	Comments on the Report:
2003	1-Sep-04	INAC- some missing monitoring data, overall the report is acceptable.
2004	9-Feb-05	NWB- some missing monitoring data, missing data on sewage volumes removed from sewage disposal facility, missing information on the creek diversion works in the hamlet.

2005	Not received	NA
2006	Not received	NA
2007	Not received	NA

WATER USE

Fees Provided: Not Applicable

The most recent annual report, 2004, indicates that the annual water use is 5,824 cubic meters. The renewal application is for 6,200 cubic meters. The supplementary questionnaire has the population set at 150 with a per-capita use of 95.17 liters/day for a total of 14,275.50 liters per day, multiplied by 365 days equals 5,210.55 cubic meters.

WASTE DISPOSAL

The most recent annual report, 2004, indicates that the annual quantity of sewage waste discharged is equal to 5,823.89 cubic meters.

Part D, Item 8 of the current Licence requires that a report identifying all Final Discharge Points be submitted within six months of issuance of the Licence, May 15, 2004, to include:

- Plans, specifications and a general description of each Final Discharge Point together with its specific geo-referenced location;
- A description of how each Final Discharge Point is designed and maintained.

This document has not been submitted.

MODIFICATION AND CONSTRUCTION

No issues identified.

OPERATION AND MAINTENANCE

Part F, Item 1 requires that an Operation and Maintenance Plan be submitted to the NWB by May 31, 2004. It is to specifically address issues raised by the INAC inspector during the July 20-21, 2001 inspection.

This document has not been submitted.

ABANDONMENT AND RESTORATION

Required six (6) months prior to closure of any licensed facilities.

- No issues identified.

MONITORING PROGRAM

All data collected under the Monitoring Program is to be submitted with the Annual Report.

ANY OTHER RELEVANT LICENSING INFORMATION

- No

Prepared by:

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