

WATER USE INSPECTION REPORT FORM

Date: Sept 13,2011	Licensee Rep. (Name/Title): Ms. Akeego Ikkidluak- SAO , Mr. Miki Lyta – Hamlet Foreman
Licensee: Municipality of Kimmirut	Licence No.: 3BM-KIM0911 – Expired

WATER SUPPLY

Source(s): Fundo Lake	Quantity used: 12 758 110 L
Owner:/Operator: Municipality of Kimmirut	

Indicate: A - Acceptable U - Unacceptable NA - Not Applicable NI - Not Inspected

Intake Facilities: A	Storage Structure: A	Treatment Systems: A	Chemical Storage: NI
Flow Meas. Device: A	Conveyance Lines: NI	Pumping Stations: A	Screen : NI

**Comments:** In 2009 the Municipality of Kimmirut was issued by the Nunavut Water Board a short term license to allow the Municipality the time necessary to come into compliance with the Terms and conditions contained within the License.

This license has now expired. An application for renewal has not yet been submitted by the licensee or their agent.

Water testing records were not available for review. Gloves and mask were present at the pumping station. The Chlorination tank was half full. New signage was found at site. Area had again been cleaned by summer students.

WASTE DISPOSAL

**Sewage:** Sewage Treatment System (Prim./Sec/Ter.):None

Natural Water Body: No	Continuous Discharge (land or water): Land	
Seasonal Discharge: NA	Wetlands Treatment: None	Trench: None

Indicate: A - Acceptable U - Unacceptable NA - Not Applicable NI - Not Inspected

Discharge Quality: U	Decant Structure: U	Erosion: U
Discharge Meas. Device: U	Dyke Inspection: NA	Seepages: NA
Dams, Dykes: U	Freeboard: NA	Spills: NI
Construction: NA	O&M Plan: U (none submitted)	A&R Plan: U
Periods of Discharge: Con.	Effluent Discharge Rate: Unknown	

**Comments:** During the period of Inspection the Inspector noted the following issues;

- The Hamlet of Kimmirut continues to discharge its raw effluent to a ditch in the waste management area that drains directly to the ocean
- The newly constructed lagoon roadway has seen some work but remains very narrow in places and was of concern to the Licensee
- Work on the new lagoon (creation of a second cell has been completed)
- During the Inspection of the second (New) cell a flow from under the second cell’s down garde berm wall was noted
- The cell’s wall (berm) is not lined and water from within the containment area is flowing under the wall of the cell and down the hill side. The second cell is not providing any containment. Down grade from the cell wall a mixture of fine particles from the matrix of the newly constructed berm wall were found in pooled water
- Visual inspection of the lower half of the second cell wall note discoloration extending from the ground to the same level as the water within the containment. It appears as if the newly constructed cell wall is saturated with water from within the containment area

The municipality has indicated that they are awaiting support from the GN to address all of the deficiencies found in the 2009 Inspection report and as yet have only undertaken what they can do.

**Solid Waste:** Waste not segregated, Hazardous wastes noted both in Municipal land fill and outside on roadway.

**Owner/Operator:** Municipality of Kimmirut

Landfill: U	Burn & Landfill: U	Other: Bulk metals area
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**Comments:** The Inspector noted as follows;

- A hazardous materials area segregated from other wastes generated within the municipality has not yet been constructed.
- Waste oil and other drums (belonging to the housing authority) remain on the roadway outside the Municipal Waste Management Area. The Licensee was to remove these barrels and store them properly within a lined area and clean the spilled oil and other materials from that site.
- Bulk metal wastes had been moved into the municipal dump.
- The Municipal Waste Management Area ( Burn and bury) has maintained the practice of covering the recently burned materials with crushed rock and fill from an adjacent source.

**FUEL STORAGE:** Not inspected .

Indicate: **A** - Acceptable **U** - Unacceptable **NA** - Not Applicable **NI** - Not Inspected

<b>Berms &amp; Liners: NI</b>	<b>Water within Berms: NI</b>	<b>Evidence of Leaks: NI</b>
<b>Drainage Pipes: NI</b>	<b>Pump Station &amp; Catchments Berm: NI</b>	
<b>Pipeline Condition: NI</b>	<b>Condition of Tanks: NI</b>	

**Waste Oil Storage:** Drums outside dump

**Owner/Operator:** Housing Association

## URVEILLANCE NETWORK PROGRAM (SNP)

<b>Samples Collected</b>		<b>Owner /Operator:</b> No samples from Municipality have been submitted	
2		<b>INAC:</b> Potable water source & Effluent discharge	
<b>Signs Posted</b>	<b>SNP:</b> (potable source)	<b>Warning: None</b>	
<b>Records &amp; Reporting:</b> No records of water usage, waste discharge, operations manuals or annual reports have been submitted by the licensee			
<b>Geotechnical Inspection: N/A</b>			

### Non-Compliance of Act or Licence:

The Licensee has seen great success in their efforts to maintain the Water Intake area. The water reservoir and intake were in operation and well kept. Record keeping, sampling and submission of chlorination testing results however remain an issue for the Licensee.

The waste management remains un-segregated and hazardous wastes were noted both inside the facility and outside on the roadway adjacent to the facility.

Raw effluent continues to be deposited by truck to a ditch that runs down gradient directly to the ocean adjacent to the municipality.

The Municipality is reminded that their now expired water license was issued with an expectation that the licensee would ensure they would be in compliance with the Act by the time the submission of an application for renewal was necessary. This appears not to have occurred.

Issues that remain outstanding are as follows;

- Submission of the report on wetlands treatment and overland flow monitoring.
- Relocation of the new land fill from on top of the mountain to a more suitable location
- Construction of a hazardous wastes area
- Fencing as required at the Municipal Waste Management Area
- Development and submission of the required operations and maintenance manuals
- Development and submission of the required Abandonment and Restoration plans as required.

A newly identified is the obvious flow of water under the wall of the unlined second cell at the Waste Water Treatment system. The cell wall appears to be saturated to a level consistent with the level of water trapped within the confines of the cell. This was documented by the inspector and re-inspected for further issues in 2012.

A.Keim

Inspector's Name

Sent by E-mail (Original signed and on file)

**Inspector's Signature**

Cc:

Bernie Mac Isaac- Director of Operations - Aboriginal Affairs and Northern Development Canada  
Phyllis Beaulieu – Manager Licensing- Nunavut Water Board

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