

WATER USE INSPECTION REPORT FORM

CIDM# 429039

Date: July 16, 2010	Licensee Rep. (Name/Title): Mr. Phillip Katik –Hamlet Foreman
Licensee: Hamlet of Kugluktuk	Licence No.: 3BM-KUG0914

WATER SUPPLY

Source(s): Coppermine River	Quantity used: 216,959.3 log entry
Owner:/Operator: Hamlet of Kugluktuk	

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: A	Pumping Stations: A	Screen : NI

**Comments:** Samples were collected at the Potable water intake. An Inspection of the treatment facility followed. Filters had recently been changed. Chlorine residual tests on both the holding tanks were conducted during the inspection period and the records were reviewed at the same time. A second chlorine pump was noted in place to address low chlorine readings prior to truck filling.

An emergency reservoir was noted on site. It is estimated to hold up to 3 days water for the community. It was noted that the Reservoir sits directly below the bulk fuel storage facility for the Power corp.

WASTE DISPOSAL

**Sewage:** Sewage Treatment System (Prim./Sec/Ter.): Primary cell and then overland flow

Natural Water Body: No	Continuous Discharge (land or water): seepage	
Seasonal Discharge: Yes	Wetlands Treatment: unknown	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: NI	Seepages: U
Dams, Dykes: U	Freeboard: A	Spills: A
Construction: U	O&M Plan: U	A&R Plan: U
Periods of Discharge: U	Effluent Discharge Rate: Unknown	

Comments:

During the period of Inspection an INAC Water Analyst was on site to conduct background sampling on the “wetland flow”. Ms. Jeanne Arsenault conducted sampling in concert with the sampling conducted by the Inspector.

During the inspection of the newly constructed lagoon the following issues were identified by the Inspector;

- Lagoon liner has 10 or more bubbles under the liner. These are VERY large in size and may threaten the integrity of the liner.
- Lagoon Liner is not sealed in a number of locations.
- Lagoon liner looks like it was installed up-side down based on observations provided by hamlet staff.
- An obvious flow of raw sewage was noted exiting the wall and toe of the new lagoon directly into the “old” lagoon area.
- The New Lagoon does not have a decant structure installed.
- Sloughing or stress cracking in the wall of the lagoon was noted during the inspection with Hamlet staff.
- A pre-existing stream was not diverted properly during construction and now appears to be undercutting the new lagoon on the up-hill side and flowing underneath the newly constructed lagoon.

**Solid Waste:** Non-combustible waste area and municipal waste management areas.

**Owner/Operator:** Hamlet of Kugluktuk

Landfill: A- good segregation	Burn & Landfill: A	Other:
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Comments:

The new Waste Management area was inspected and found to be well designed and set up. A small cell at the low end of the WMA collects water and run off prior to exiting the facility. Two lined and fenced off areas for hazardous materials were noted. Both appear small and may require enlargement for the amount of hazmat generated within the community.

The Solid waste management area is located across the road and has recently been upgraded and old materials crushed and buried. Over 50 drums were already placed within the facility in less than a year.

The Operations and maintenance manuals for the facilities were not located during the inspection and could not be found on the Nunavut Water Board FTP site. The licensee is required to provide these as an addendum to their 2010 Annual report.

FUEL STORAGE:

Owner/Operator: Government of Nunavut		
Indicate: A - Acceptable U - Unacceptable NA - Not Applicable NI - Not Inspected		
Berms & Liners: NI	Water within Berms: NI	Evidence of Leaks: NI
Drainage Pipes: NI	Pump Station & Catchments Berm: NI	
Pipeline Condition: NI	Condition of Tanks: NI	

SURVEILLANCE NETWORK PROGRAM (SNP)

Samples Collected: 0	Owner /Operator: No samples from Municipality have been submitted	
Samples Collected: 2	INAC: Potable-River, and Effluent	
Signs Posted	SNP: some	Warning: noted.
Records & Reporting: None of the reporting requirements have been complied with to date.		
Geotechnical Inspection: N/A		

**Non-Compliance of Act or Licence:** The Municipality is required to supply the following documents to bring themselves into compliance with the outstanding requirements of the issued Water License;

- Updates to the following documents;
  - Solid Waste Management Facility Operation and Maintenance (O&M) Plan, Hamlet of Kugluktuk;
  - Sewage Treatment Facility Operation and Maintenance (O&M) Plan, Hamlet of Kugluktuk, Nunavut;
  - Monitoring Program and Quality Assurance/Quality Control Plan, Hamlet of Kugluktuk; and
  - Environmental Emergency Contingency Plan, Hamlet of Kugluktuk.
- Submission of the outstanding annual reports including the results of sampling as required.

The Municipality must submit as an addendum to their 2010 annual report a Plan for Compliance, outlining what specific actions they will undertake to bring themselves into full compliance with their License by the period of the next inspection.

This will be included in the formal report on the inspection.

A.Keim

Inspector’s Name

Sent by E-mail

Inspector’s Signature

