



## MUNICIPAL WATER USE INSPECTION REPORT

Date: September 19th 2006

Licensee Rep. (Name/Title) Etienne Kakkianian

Licensee: Kugaaruk

Licence No.: Unlicensed

Nunavut Water  
Board

DEC 19 2006

Public Registry

### WATER SUPPLY

Source(s): river

Quantity used: Unknown

Owner:/Operator: Hamlet of Kugaaruk

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

Intake Facilities: A

Storage Structure: A

Treatment Systems: A

Chemical Storage: NA

Flow Meas. Device: NI

Conveyance Lines: NA

Pumping Stations: NI

**Comments:** During the inspection the local pumping station up river of the community was assessed. The chlorination system was found not to be working at the time of the inspection. It was noted that the pump/ flow switch had malfunctioned and one was on order. Records were being kept and chlorination was being done in the trucks at the pump house prior to delivery of the water.

### WASTE DISPOSAL

**Sewage:** Sewage Treatment System(Prim./Sec./Ter.) primary lagoon treatment then wetlands

Natural Water Body:

Continuous Discharge(land or water): land

Seasonal Discharge: NA

Wetlands Treatment: X

Trench: None

**Solid Waste:** Owner/Operator: Hamlet of Kugaaruk

Landfill: X

Burn & Landfill: X

Other: No segregation

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

Discharge Quality: U

Decant Structure: U

Erosion: U

Discharge Meas. Device: None

Dyke Inspection: NA

Seepages: U

Dams, Dykes: NI

Freeboard: U

Spills: U

Construction: NA

O&M Plan: Unknown

A&R Plan: Unknown

Periods of Discharge: NA

Effluent Discharge Rate: Not monitored

**Comments:** The sewage lagoon was inspected and it was found to be wholly insufficient to the needs of the community. The whole area was leaking through the wall of the lagoon and seepages were discovered throughout the system. In conversation with the Hamlet staff it was noted that there had been a failure of the lagoon wall less than a year previous and work was completed to stem the flow of raw effluent into the environment however the lagoon is of insufficient capacity and needs to be replaced.

Bulk waste materials were well segregated and hazardous materials were isolated and stored separate from the noncombustible community wastes.

### 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 & Catchment Berm: NI

Pipeline Condition: NI

Condition of Tanks: Unknown

### SURVEILLANCE NETWORK PROGRAM (SNP)

Samples Collected Hamlet: none

INAC: Raw water, Sewage Effluent, 1 location from solid waste management area

Signs Posted SNP: Signage was noted

Warning: None

Records & Reporting: pending

Geotechnical Inspection:

### Non-Compliance of Act or Licence:

Sewage treatment is unacceptable. The lagoon has suffered a failure within the last year and currently the volume of effluent exceeds the capacity of the current lagoon. The lagoon also suffers from numerous seepages, thus the treatment and containment time are of serious concern. This needs to be addressed this coming field season.

The community is currently unlicensed.

(NB. An equipment malfunction caused the loss of photographs taken during this inspection).

A. Keim

Inspector's Name

Inspector's Signature