

Multi Year Municipal Compliance Summary

Kugluktuk	3BM-KUG0914
Potable Source:	Coppermine River
Licensee:	Hamlet
Start and Expiry dates:	5/14/2009 4/30/2014
Status:	Active
Sampling Results:	None

Reporting General

No Annual Reports have been submitted since 2006
Failure to submit Sludge Waste Management Plan
O&M Plan and A&R Plan Unacceptable

2007 Reporting

Unknown

2008 Reporting

Issues with Water intake: large amount of sediment
Construction of New Lagoon and Solid Waste Sites

2009 Reporting

- Licence was renewed in May 2009
- Water Treatment Plant chemical storage (inventory) was stored without secondary containment
- Modifications to the process were identified and Chlorine injection point to be relocated to after point of filtration
- Signage at water intake and effluent outfall require replacement;
- no signage for monitoring
- Does not meet monitoring and reporting requirements
- Newly constructed lagoon –bubbling of liner observed; some tearing in one area.
- Newly constructed solid waste site –lack of designated drop off areas; haz-waste cell is too small requiring Hamlet using land farm cell for excess barrels
- Bulky waste site: dumping of hazardous and liquid waste (fuel/unknown) products –site requires better management. Pit area collecting run-off water.
- Fuel Tank farm: direct discharge of water from secondary containment berm without testing or treatment to the environment.
- Several hundred drums of Av Gas (PPD-GN) stored within fenced area in front of Tank farm and not on Secondary Containment, some stacked pallets look ready to collapse
- Two abandoned industrial sites with active risk of environmental contamination without immediate intervention (fuel spills noted). Issues further compounded by unsolicited use of sites by members of the community.

2010 Reporting

Potable Source

- Filters had recently been changed
- Chlorine residual testing results were complete and up-to-date
- Emergency Reservoir was full

Waste: Sewage Lagoon

- Lagoon liner has bubbles under the liner and may threaten the integrity of the liner.
- Lagoon Liner is not sealed in a number of locations.
- Hamlet staff suggest that the Lagoon liner was installed up-side down
- An obvious flow of raw sewage was noted exiting the wall and toe of the new lagoon
- The new Lagoon does not have a decant structure installed.

Multi Year Municipal Compliance Summary

- Sloughing or stress cracking in the wall of the new lagoon was noted during the inspection with Hamlet staff.
- A pre-existing stream appears to be undercutting the new lagoon on the up-hill side and flowing underneath the newly constructed lagoon.

Waste: Solid Waste Management Area

- Hazardous Materials Area , Hamlet staff indicate it is too small for heavy equipment to move in and storage capacity is too small.
- The Operations and maintenance manuals for the facilities could not be located during the inspection (**Required to submit with 2010 Annual Report**)

Non-Compliance

- Licensee is required to submit 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.
- Licensee is required to submit outstanding annual reports including the results of sampling as required.
- The Licensee is required to 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.

2011 Reporting

Potable Source

- Samples were collected from the source adjacent to the Intake. Silt was noted in the sampling area.
- Water sampling and daily testing records were found complete
- Chlorination treatment systems were both working on site. Turbidity reading noted at 3.5
- Emergency back up reservoir water had recently been refilled

Waste: Lagoon

- The Waste Water Lagoon appears to have a number of tears in lagoon liner that were identified in the 2010 Inspection
- Large bubbles of water/ Ice have pushed up from the bottom of the lagoon. The facility is currently not in use and remains off line
- Effluent from the community is currently discharged to the old lagoon cell adjacent to the new Lagoon. Raw, untreated effluent flows downstream into the river system and on to Coronation Gulf
- No sampling results have been submitted by the Municipality
- A Sludge Waste Management Plan has not been submitted for review
- It was noted that none of the issues identified in the 2010 inspection appear to have been addressed by the Licensee

Waste: Solid Waste Management Area

- The Hazardous Materials cells is very close to having no capacity within the facility
- The Municipal Waste Management Area for municipal waste requires cover material as open burned garbage and debris was noted blowing around and being ejected from the facility
- Operations and Maintenance Manuals were not reviewed as no hamlet staff took part in the inspection.

Non-Compliance

- Failure to submit annual reports (2007 – 2010)
- Failure to undertake the required sampling
- Failure to participate in Inspections as required
- Failure to submit the required **Compliance Plan** (originally ordered in 2010)
- Failure to maintain the Sewage lagoon

Multi Year Municipal Compliance Summary

NB: An **Inspectors Direction** was recommended by the Inspector upon Completion of the Inspection on July 11, 2011. The Inspector has **two years** from the date of becoming aware of an infraction of the license or legislation to order corrective action in the form of an Inspector's Direction.

HAMLET OF KUGLUKTUK

3BM-KUG0712

Non-compliance Overview between 2007 and 2011

N.B: Application for renewal has not yet been submitted (at the time this was composed)

Failure to submit the **Compliance Plan** as required by the Inspector

Failure to submit required addendum to the submitted O&M Manual for the Sewage lagoon to address deficiencies identified during the review period.

Failure to submit required addendum to the submitted O&M Manual for the Solid Waste Facility to address deficiencies identified during the review period.

Part B (1a-i) Failure to submit annual reports as required (this includes those requirements as listed in Part H – Monitoring Program)

Part B (7) Failure to maintain a copy of the License at the Municipal Office

Part B (8) Failure to provide copies of reports and Plans in the specified number and format

Part B (10) failure to undertake works without the approval of the Nunavut Water Board.

Part D (4) Failure to maintain and operate the lagoon in such a manner as to prevent structural failure

Part D (5) Failure to treat the Type B soil in the Land Farm facility in accordance with the O&M Plan as submitted

Part F (1) Failure to submit to the Board for approval, the required Plans and manuals including the following;

Environmental Emergency Contingency Plan For Water, Sewage and Solid Waste Operations in the Hamlet of Kugluktuk Nunavut

Part F 5 Failure to report an unauthorized discharge of waste

Part G (1) Failure to submit to the Board for approval, an Abandonment and Restoration Plan

N.B An Inspector's Direction was recommended by the Inspector to address items found in the 2010 and 2011 Inspection. The Inspector has 2 years to issue the Direction.

Inspections and review completed by Field Operation Section, AANDC