



WATER USE INSPECTION REPORT

Date: August 17, 2010	Licensee Rep. (Name/Title): Moses Novalinga (Hamlet Foreman)
Licensee: Hamlet of Sanikiluaq	Licence No.: 3BM-SAN0308 (expired)

WATER SUPPLY

Source(s): Sanikiluaq Lake		Quantity used: NI	
Owner./Operator: CGS as operator on behalf of Hamlet			
Indicate: A - Acceptable U - Unacceptable NA - Not Applicable NI - Not Inspected			
Intake Facilities: NA (being torn down)	Storage Structure: NA (direct filling to water truck)	Treatment Systems: A	Chemical Storage: NA
Flow Meas. Device: NA	Conveyance Lines: A	Pumping Stations: NA	Screen : NI

Comments: Current water intake station was in process of being decommissioned at time of inspection; new intake station was not yet operational. Method of treatment is granulated chlorine (calcium hypochlorite, 70%), mixed to solution and injected to the water line during water truck pump/fill.

For future inspection: No records for water usage were provided by the Hamlet; lack of spill kit(s) and personal protective equipment for chemical mixing and storage.

WASTE DISPOSAL

Sewage: Sewage Treatment System (Prim./Sec/Ter.): Primary lagoon with continuous direct discharge to “wetland” effluent flow path before discharge to ocean

Natural Water Body: constructed lagoon	Continuous Discharge (land or water): yes (both)	
Seasonal Discharge: NA	Wetlands Treatment: some	Trench: no

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

Discharge Quality: U	Decant Structure: No	Erosion: yes (of berm)
Discharge Meas. Device: NA	Dyke Inspection: NA	Seepages: yes (U)
Dams, Dykes: U	Freeboard: No (U)	Spills: U
Construction: NA	O&M Plan: No (U)	A&R Plan: No
Discharge: Continuous	Effluent Discharge Rate: NI	

Comments: Lagoon has limited/insufficient capacity and continuously seeps through the gravel berm (or flows over), along a well established effluent flow path, before discharging to the ocean. Area is very well vegetated, which has prevented more serious erosion of the lagoon berm wall. Bulky waste area encroaches on lagoon.

Solid Waste:

Owner./Operator: Hamlet

Landfill: U	Burn & Landfill: yes	Other: Bulky wastes dump - U
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- Comments: The Solid waste area consists of multiple sites:
- The Bulky wastes/dump area (left side of road, above sewage lagoon): used as the main dump area and includes construction wastes, snow machines and atv’s, appliances, residential fuel tanks and other miscellaneous wastes. Extremely messy, mixed wastes and is encroaching on the lagoon.
 - Fenced landfill area (right side of road): used as the burn area for hamlet domestic wastes. This area is low-lying so the Hamlet does not like to dump non-burnable wastes here. A large metal-framed structure with mesh netting on the sides and a low-walled concrete berm as the base is used to burn wastes.
 - Vehicle/tire dump area (directly beside fenced area): old vehicles and heavy equipment; batteries and old drums
- Windblown garbage is widespread (and eventually blown to the ocean); repair of the fencing is required.
 - Repair of mesh netting covering burn structure is needed
 - Lack of overall management at the main dump (bulky wastes) area used: use of this area must be resolved between the Hamlet and CGS as wastes encroach on the sewage lagoon and may also be considered a fire and safety hazard.
 - No signage observed or areas designated for segregation of wastes; no area properly designated for hazardous wastes, batteries, liquid waste products.

FUEL STORAGE:

Waste Oil Storage: Area designated for storage does not appear to be lined or adequately maintained

Owner/Operator: Hamlet
Indicate: A - Acceptable U - Unacceptable NA - Not Applicable NI - Not Inspected

Berms & Liners: None found (U)	Water within Berms: NA	Evidence of Leaks: yes (U)
Drainage Pipes: NA	Pump Station & Catchments Berm: NA	
Pipeline Condition: NA	Condition of Tanks: See comments for Tank Farm	

Comments: The community is in need of a properly constructed storage and disposal area for liquid and hazardous wastes and contaminated soils. There is evidence of leaking drums and contaminated soil inside and outside of the gravel bermed area where waste fuel and liquid waste drums are deposited. No signage present.

Tank Farm: Older barrels of fuel are stored between the fuel pump station and the tank farm berm; container with spill pads collecting rain water.

- Tank farm berm is in need of care and maintenance: some erosion; berm substrate is well vegetated.
- There is spill padding wrapped with plastic on several corner valve joints –unsure whether this is meant as a preventative measure or a make-shift repair. This needs to be dealt with properly.
 - Accumulated water is passively withdrawn from within the tank farm berm and discharged directly to the environment: this water cannot be discharged unless sampled beforehand to show it meets discharge criteria (for hydrocarbons).

SURVEILLANCE NETWORK PROGRAM (SNP)

Samples Collected		Owner /Operator: no samples taken
3		INAC:. Raw water supply (Hamlet potable source); Spring (local alternative potable water source, near quarry); Effluent discharge point (before discharges to ocean).
Signs Posted	SNP: No	Warning: No
Records & Reporting: Records not available at time of inspection		
Geotechnical Inspection: NA		

Non-Compliance of Act or Licence:

- Lack of signage, monitoring and reporting requirements
- Lack of segregation and appropriate management at solid waste sites
- Inadequate sewage lagoon capacity
- Lack of operations and maintenance manuals, and spill contingency plans

Melissa Joy & Bryan Rayner

Sent by E-mail

Inspector(s) Name

Inspector(s) Signature