



WATER USE INSPECTION REPORT

Date: July 6&11, 2009	Licensee Rep. (Name/Title): No Hamlet rep available; CGS rep: Matt MacFarlane for Water Intake and Treatment System
Licensee: Municipality of Cambridge Bay (Hamlet)	Licence No.: 3BM-CAM0914

WATER SUPPLY

Source(s): Water Supply 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: A	Storage Structure: NI	Treatment Systems: A	Chemical Storage: A - Improved from last year
Flow Meas. Device: NI	Conveyance Lines: A	Pumping Stations: A	Screen : NI

Comments: Ice cover still on Water Supply Lake; smoke plume from municipal dump carried over Lake. Manual records not yet being kept at WTP area. Fuel tank at Water Intake Station should be inspected by a certified professional as a precaution due to its close proximity to the Lake.

- Operation of WTP was taken over by CGS from the Hamlet. Repair work was being undertaken on underground conveyance line; some flooding of the system occurred this year.
- Spill kits and spill contingency plan still lacking for chemical storage and handling.

Other: Lack of essential replacement parts/inventory for water supply and treatment system. Lack of backflow stop on fire-line system to treated water supply line (possible public health issue).

WASTE DISPOSAL

Sewage: Sewage Treatment System (Prim./Sec/Ter.): None –direct discharge to system

Natural Water Body: yes	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: U
Discharge Meas. Device: NA	Dyke Inspection: NA	Seepages: yes -U
Dams, Dykes: U	Freeboard: NA	Spills: U
Construction: NA	O&M Plan: No -U	A&R Plan: No
Discharge: Continuous	Effluent Discharge Rate: NI	

Comments: Lagoon is seeping into landfill; drainage carries effluent through metals dump and picks up leachates from both the metals dump and solid waste dump areas. Large amount of garbage in lagoon area and flow pathways; garbage carried out to open water.

Solid Waste:

Owner/Operator: Hamlet

Landfill: U	Burn & Landfill: yes	Other: Metals Dump -U
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Comments: Windblown garbage everywhere; fencing required. Lack of overall management at landfill and metals dumps areas. No signage observed or areas designated for segregation of wastes; no areas designated for hazardous wastes or liquid waste products, resulting in mixed waste streams at both dump sites. Spills present in metals dump from vehicles that have not been drained adequately before being discarded.

Licensee is advised to take measures to bring the situation at the solid waste site under control, and to implement measures that will encourage responsible disposal practices not only by Hamlet operators, but by private operators and contractors as well.

FUEL STORAGE:

Waste Oil Storage: No area designated for storage Owner/Operator: Hamlet

Indicate: A - Acceptable U - Unacceptable NA - Not Applicable NI - Not Inspected		
Berms & Liners: U	Water within Berms: U	Evidence of Leaks: NA

Comments: There is currently an unauthorized structure built a local contractor that was intended for this purpose (outside the Metals Dump). As the structure was not approved by the NWB or Hamlet, it must be removed before illegal dumping can occur here.

The community is in need of a properly constructed storage and/or disposal area for liquid and hazardous wastes and contaminated soils.

Licensee is strongly advised to take measures that will encourage better fuel handling and disposal practices by business operations on Commissioner’s Lands.

Tank Farm and other fuel storage areas: **Owner/Operator:** GN (Contractor: Kitnuna)
Indicate: **A** - Acceptable **U** - Unacceptable **NA** - Not Applicable **NI** - Not Inspected

Berms & Liners: A	Water within Berms: A	Evidence of Leaks: A
Drainage Pipes: NA	Pump Station & Catchments Berm: U –require maintenance (refuelling station tank); lack of identifiable spill kits	
Pipeline Condition: A	Condition of Tanks: A	

Comments:
Kitnuna is responsible for the Hamlet fuel contract and manages two Tank farm sections and a refuelling station.

- Kitnuna currently has one tank in use which sits outside the Tank farm berm containment area.
- Tank at refuelling station requires maintenance of bermed area; labelling on tank and relevant signage requires updating.
- Spill kit/material storage was not identified in refuelling station area.
- Water collecting inside tank farm berms is discharged directly to the environment without confirmatory sampling.

Nunavut Power Corporation (NPC) operates a Tank farm (between the two Kitnuna sections), truck fill station and refuelling station adjacent to Kitnuna operations.

- NPC’s truck fill station requires immediate attention and cleanup –the liner is poorly maintained and placement is inadequate for use; fuel staining present outside lined area.

Other: Fuel pump station at the float plane dock was left unlocked and unattended, with the refuelling nozzle and a full jerry can left on the dock. Fuel tanks in this area require maintenance.

It is highly recommended that the Owner ensures their contractor tests for BTEX and Oil and Grease (HEM) in water collected within the tank farms next spring, prior to discharge to the environment. This is confirmatory sampling to ensure compliance.

Licensee is advised to take measures that will encourage better fuel handling and storage practices by business operations on Commissioner’s Lands.

SURVEILLANCE NETWORK PROGRAM (SNP)

Samples Collected		Owner /Operator: no samples taken by Hamlet
3		INAC:. Potable water supply, Leachate (outside Metals Dump), Effluent discharge point (after culvert)
Signs Posted	SNP: No	Warning: No; only one sign observed at entrance to Dump, which is in need of replacement.
Records & Reporting: Records not available at time of inspection		
Geotechnical Inspection: NA		

Non-Compliance of Act or Licence:

The Licensee has not yet met the requirements set out in the April 2009 Water Licence Renewal or the commitments made in the renewal application –many of which are directly related to issues noted during the inspection.

- Lack of signage, monitoring and reporting requirements
- Lack of operations and maintenance manuals, spill prevention/contingency plans and related training
- Overall lack of solid waste management

M. Joy

Inspector’s Name

Inspector’s Signature