

WATER USE INSPECTION REPORT FORM CIDM# 428918

Date: August 7 ,2010	Licensee Rep. (Name/Title): Mr. Kim Kalen, (NWS), Barb Thompson (Nasittuq), Scott Mackenzie LSS Mgr. (Nasittuq)	
Licensee: North Warning System Office (DND)	Licence No.:	3BC-FOH0919

WATER SUPPLY

Source(s): Municipal Reservoir	Quantity used: Records on site		
Owner:/Operator: Municipality of Hall Beach	Pipe line off line – Truck delivery		
Indicate: A - Acceptable U - Unacceptable NA - Not Applicable NI - Not Inspected			
Intake Facilities: NI	Storage Structure: A	Treatment Systems: A	Chemical Storage: NA
Flow Meas. Device: U	Conveyance Lines: NI	Pumping Stations: NI	Screen : NI

Comments: In February of 2010 the pipeline from the Municipal reservoir froze and the LSS facility was forced to revert to a trucked water service. There is a plan to replace the line however it is unconfirmed if this will take place before freeze up. Water use records are not metered at this time but based on estimates of truck volumes.

Water testing within the facility remains unchanged. The Inspector has directed the licensee to add an additional testing regime to the delivery truck on a quarterly basis. If any tests return a positive result for e-coli or fecal coliform bacteria the truck must be removed from service, cleaned and retested prior to being put back into service.

The water treatment system at the facility consists of a system of filters and UV light to treat raw water. The system has a back-up for redundancy and to facilitate preventive maintenance. Records for delivery were noted at the Raw Water Tanks.

WASTE DISPOSAL

Sewage: Sewage Treatment System (Prim./Sec/Ter.):Activated sludge and filter system (w UV)

Natural Water Body: No	Continuous Discharge (land or water): Land	
Seasonal Discharge: NA	Wetlands Treatment: None	Trench: None
Indicate: A - Acceptable U - Unacceptable NA - Not Applicable NI - Not Inspected		
Discharge Quality: A	Decant Structure: NA	Erosion: NA
Discharge Meas. Device: NA	Dyke Inspection: NA	Seepages: NA
Dams, Dykes: NA	Freeboard: NA	Spills: NA
Construction: A	O&M Plan: Provided A	A&R Plan: As filed
Periods of Discharge: Con.	Effluent Discharge Rate: Unknown	

Comments: The Licensee has installed an Activated Sludge and filtration system to treat waste water within the facility. Treated waste water is also re-circulated back through the facility for use in toilets.

Final treatment before discharge to the environment (pipeline) is a UV light system. The rate of discharge varies due to the “on-demand” system of usage within the facility.

Effluent treatment has met all license criteria standards for testing over the past two years. Sampling results were not available for review during the inspection and will be added to the 2010 annual report. No samples were collected during the inspection.

Solid Waste: Municipal wastes are picked up by the Municipality of Hall Beach for disposal.

Owner/Operator: Municipality of Hall Beach

Landfill: NA	Burn & Landfill: NA	Other: Haz-Mat marshalling area
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Comments:

Municipal wastes generated by the licensee are picked up by the Municipality of Hall Beach and transferred to the Municipal waste management area.

Hazardous wastes are usually shipped off site annually via sea-lift. In 2009 the Sea-lift was unable to remove the materials and the Licensee was forced to store the materials over winter. No Records were available for review at this time as no materials had been shipped off site. In 2010 it is expected that all of the 2009 and 2010 haz materials, waste oils, filters and contact water/ sludge from the 2009 tank cleaning project will be shipped off site. The 2010 records will be appended to the 2010 Annual report submitted to the Inspector and the Nunavut Water Board.

No incineration or open burning is conducted on site.

FUEL STORAGE: On-site storage of fuels .

Waste Oil Storage: In airport hanger and marshalling areas for shipment off site.

Owner/Operator: North Warning System (Department of National Defence)

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

Berms & Liners: A	Water within Berms: A	Evidence of Leaks: A
Drainage Pipes: A	Pump Station & Catchments Berm: A	
Pipeline Condition: NI	Condition of Tanks: NI (Tanks in use were cleaned and tested in 2009) Tanks have been registered as per AGS Regs.	

SURVEILLANCE NETWORK PROGRAM (SNP)

Samples Collected	Owner /Operator: Testing results noted in 2009 Annual report for Raw water. Testing results from Fuel storage berms were submitted to the Inspector in July of 2010 prior to discharge.	
0	INAC: Potable water source tested in July 2010. No Effluent testing was required in 2010.	
Signs Posted	SNP: (potable source)	Warning: Noted on site
Records & Reporting: Records were available as required.		
Geotechnical Inspection: N/A		

Non-Compliance of Act or Licence:

The Inspector did not note evidence of Non-compliance with the current license. The Licensee has taken steps over the last two years to ensure they bring themselves into compliance with the issued license and the Act. The Inspector also recognizes that the licensee has taken steps to address all identified items from previous inspections.

The Inspector has ordered that the water delivery truck, in use because of the Freeze up of the Pipeline, be tested on a quarter basis until such time as the Pipeline or a new Pipeline is commissioned for use. This is a precautionary testing as the water being taken in from the Reservoir is not chlorinated prior to entering the truck (Raw water only). This is not considered to be an issue of Non-compliance.

It is recommended that the site be inspected in again in 2012 or 2013 to ensure continued compliance with the issued license.

A. Keim

Sent by E-mail

Inspector's Name

Inspector's Signature

