

## WATER USE INSPECTION REPORT FORM CIDM # 428917

Date: August 10 ,2010	Licensee Rep. (Name/Title): Mr. Kim Kalen, (NWS), Barb Thompson (Nasittuq), Mitzi Wall LSS Mgr. (Nasittuq),
Licensee: North Warning System Office (DND)	Licence No.: 3BC-CAM0919 (Cam Main)

### **WATER SUPPLY**

Source(s): Small Lake adjacent to site	Quantity used: Records on site 1140 m <sup>3</sup> L		
Owner:/Operator: NWS	Pump house from Lake to Accommodation Train		
Indicate: <b>A</b> - Acceptable <b>U</b> - Unacceptable <b>NA</b> - Not Applicable <b>NI</b> - Not Inspected			
Intake Facilities: A	Storage Structure: A	Treatment Systems: A	Chemical Storage: NA
Flow Meas. Device: A	Conveyance Lines: NI	Pumping Stations: NI	Screen : NI

**Comments:** Water from the lake is pumped from the lake directly to a holding tank in the accommodation train. Water is metered as it is sent to treatment which consist of a series of four filters and UV treatment before being sent on for use in the buildings. The meter was working during the period of Inspection. This system is the same as the system in Hall Main.

Water testing within the facility remains unchanged. Tests are conducted monthly and results were available for review during the Inspection.

It was noted during the Inspection that water is taken from the pump house and installed into a truck for watering the roads and other uses. This water is not presently metered. This is to be addressed by the period of the next Inspection.

### **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: <b>A</b> - Acceptable <b>U</b> - Unacceptable <b>NA</b> - Not Applicable <b>NI</b> - 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 available for review during the inspection and will also be added to the 2010 annual report. No samples were collected during the Inspection.

**Solid Waste:** Wastes are hauled to the Municipality of Cambridge Bay for disposal.

**Owner/Operator:** Municipality of Cambridge Bay

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 Cambridge Bay and transferred to the Municipal Waste Management Area.

Hazardous wastes are shipped off site annually via sea-lift. Completed signed shipping and transfer forms were not available for review during the inspection as the completed forms for 2009 are stored in a southern Location. This information is to be available on site for future Inspections in either hard copy or electronic format. The 2009 and 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. It is highly recommended that some waste reduction and management program is put in place prior to the next Inspection.

It is noted by the Inspector that an Incinerator is still not present on site. While the transfer of wastes to the Municipality of Cambridge Bay may be an option for the short term it is obviously not a sustainable long term solution.

The Inspector calls upon the licensee to provide the Nunavut Water Board and the Inspector a plan to address this issue. This Plan is to be submitted as an addendum to the 2010 Annual report and will provide times lines for compliance.

**FUEL STORAGE:** On-site storage of fuels, all tanks inspected no issues noted.

**Waste Oil Storage:** Waste Oil and other Haz Mat are to be shipped off site.

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

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

<b>Berms &amp; Liners:</b> A	<b>Water within Berms:</b> A	<b>Evidence of Leaks:</b> A
<b>Drainage Pipes:</b> A	<b>Pump Station &amp; Catchments Berm:</b> A	
<b>Pipeline Condition:</b> NI	<b>Condition of Tanks:</b> NI (Tanks in use were cleaned and tested in 2008) Tanks have been registered as per AGS Regs.	

**SURVEILLANCE NETWORK PROGRAM (SNP)**

<b>Samples Collected</b>	<b>Owner /Operator:</b> 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	<b>INAC:</b> Potable water source tested in July 2009. No Effluent testing was required in 2010.	
<b>Signs Posted</b>	<b>SNP:</b> (potable source)	<b>Warning:</b> Noted on site
<b>Records &amp; Reporting:</b> Records were available as required.		
<b>Geotechnical Inspection:</b> N/A		

**Non-Compliance of Act or Licence:**

The Licensee has taken steps over the last two years to ensure compliance with the issued license and the Act.

It is highly recommended that record keeping practices be reviewed and all uses of water are accounted for, in compliance with the License. The Inspector also recognizes that the licensee has complied with all of the items identified in previous inspections.

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

A. Keim

Inspector's Name

Sent by E-mail

Inspector's Signature

