

**WATER USE INSPECTION REPORT**

Date: 23 July 2013	Licensee Rep. (Name/Title): Kim Kalen, National Defence, Barb Thompson, Nasittuq, Scott MacKenzie, Nasittuq.
Licensee: National Defence	Licence No: 3BC-DYE0919

Comments: The Inspector would like to thank Mr. Kalen, Ms. Thompson and Mr. Scott MacKenzie for taking the time to facilitate and assist with the inspection of these facilities. The last inspection was completed in 2010. The site is contained within a reserve set up in the late 50's. The site has seen a great deal of work undertaken over the last few years with the on-going clean-up efforts being managed by Defence Construction Canada (1BR-DYE). A great deal of scrap metal, antennas and other inert bulk materials have been removed and placed in landfills adjacent to the site under that license.

The site was found to be well organized with two trains of accommodations remaining in place along with a number of out buildings used for vehicle maintenance, carpentry and other miscellaneous cold storage. The site is not continually manned but run remotely. The site has periodic habitation during the year for maintenance and operations.

WATER SUPPLY

Source(s): Lower melt water river	Quantity used: 18,319 L to date
Owner:/Operator: Nasittuq Corporation	

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

Intake Facilities: NA	Storage Structure: A	Treatment Sys: A	Chemical Storage: U
Flow Meas. Device: A	Conveyance Lines: A	Pumping Stations: A	Screen : NI

Comments: Water is collected via suction truck and hauled to the station where it is pumped into the stations 3 holding tanks. The station had only recently been opened and thus only two loads of water had been hauled to the camp.

The chlorination pump was said to be off line and was to be fixed within the next few days. The LSS station was to advise the inspector upon completion of that task. The filters (10, 5 and .1 micron) had recently been changed and all appeared to be in order. The tanks had all recently had testing to ensure their safety and sample kits and results were on hand to review.

Water had been used for no other purpose than consumption and personal use since the camp opened. The licensee is highly encouraged to install signage on Potable water and Waste Water Tanks in the facilities that reflect important dates and information such as inspections and cleaning as well as to aid in tank identification during the inspection process.

WASTE DISPOSAL

Sewage: Direct deposit to sump Treatment :(Prim./Sec/Ter.) Primary

Natural Water Body: NA	Continuous Discharge (land or water): NA	
Seasonal Discharge: NA	Wetlands Treatment: NA	Trench: NA

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

Discharge Quality: NI	Decant Structure: NA	Erosion: A
Discharge Meas. Device: NA	Dyke Inspection: NA	Seepages: A
Dams, Dykes: A	Freeboard: A	Spills: None
Construction: A	O&M Plan: A	A&R Plan: A
Periods of Discharge: Seasonal	Effluent Discharge Rate: Unknown.	

Comments: Effluent from each accommodation train is discharged to two small lagoons constructed in 2009 in compliance with a direction issued by the Inspector. These lagoons were found in good repair.

**SOLID WASTE MANAGEMENT AREAS:**

Landfill: None	Burn & Landfill: None	Other: Transported off site
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Comments: Waste is collected on site, bagged and then shipped out via aircraft to Iqaluit where it is transported to the Iqaluit Solid Waste management Area. Hazardous wastes are logged and packaged for retrograde south to a Facility licensed to treat this waste. Logs and records from 2012 were available for review during the Inspection of the facility.

The site had recently been granted a license exemption for a one time open burn program to get rid of waste wood products on site (approved by the NWB under Motion # 2013-B1-023). The Licensee is reminded that the conditions contained within the Amendment are to be followed at all times and documented for inclusion in the Annual Report.

Storage of hazardous materials on site requires sufficient spill containment and clean up materials including some form of neutralizing agent for Battery Acid (H_2SO_4) – including SODIUM BICARBONATE, SODA ASH, LIME. Keeping batteries sequestered from any form of oxidizer is also highly recommended.

Waste Oil Storage: Found on site awaiting transport south to a licensed facility.

FUEL STORAGE: Camp and Beach**Owner/Operator:** National Defence/ Nasittuq

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

Berms & Liners: A	Water within Berms: U	Evidence of Leaks: None
Drainage Pipes: A	Pump Station & Catchments Berm: A	
Pipeline Condition: A	Condition of Tanks: A	

Comments: Water was found within the Fuel Storage berms at the time of the Inspection. Sample results had not yet been returned from the lab so the water could not yet be discharged. The camp had only recently been opened and the POL fuel transfer to the upper site recently been completed. It is noted that the sampling of these fuel berms must take place as soon as possible following the onset of freshet to facilitate the removal of water from the berms as the presence of the water reduces the capacity inside the berm below the required 110% of the largest single tank.

The use of Drip-trays and other forms of spill prevention at fuel transfer areas was noted during the inspection. Secondary containment is highly encouraged wherever fuel is stored or transferred to prevent accidental releases. This is also a requirement of the water license Part G item 4 and is to be addressed before the period of the next inspection.

Spill Files/ Reports inspected and to be closed:

2011-344

2011-08-23

BAF

Cape Dyer, NWS LRR DYE-M

Waste Oil 1 L

SURVEILLANCE NETWORK PROGRAM (SNP)

Samples Collected		Owner /Operator: As required. Results to be provided			
None		AANDC			
Signs Posted	SNP: Posted	Warning: As required			
Records & Reporting: As required					
Geotechnical Inspection:					

NON-COMPLIANCE OF ACT OR LICENCE:

No obvious or serious issues of Non-compliance were noted during the period of Inspection. The Licensee is reminded that secondary containment, signage and segregation of hazardous materials are all constituent elements of the Water License. Diligence in the application of all aspects of the license is required to maintain compliance. The Licensee is commended for making such improvements that have been noted in the above report and for works noted during the Inspection of these facilities.



It is the recommendation that barring an incident that requires the attendance of the inspector at a date sooner, that a further inspection be done within 4 years at this facility.

Andrew Keim

Inspector's Name

Sent by E-mail (Original signed and on file)

Inspector's Signature

Cc:

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