



## Inspection Report

**License #:** 1BR-DYE  
**Inspector:** A.Keim  
**CIDMS #** 324489

Client	Defence Construction Canada		
Mailing Address	Constitution Square, Suite 1720, 350 Albert St., Ottawa, Ontario K1A 0K3		
Inspection site location	Baffin Region		
Contact name	Douglas Craig	Title	Environmental Officer
Last inspection date	August 22 2007		
Inspection start date	August 22, 2008		
Region	Qikiqtani		



INAC, Nunavut District  
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Submitted Via E-Mail  
Our File: 1BR-DYE0409  
Your File: \_\_\_\_\_  
CIDM # 324489

April 8 2009

Douglas Craig, M.Sc.  
Environmental Officer  
DEW Line Clean Up  
Defence Construction Canada  
Constitution Square, Suite 1720, 350 Albert St.,  
Ottawa, Ontario  
K1A 0K3

**RE: Water license inspection - Dye M Clean Up - August 22<sup>nd</sup> , 2008**

The Water Resources Officer (WRO) appreciates the assistance and cooperation provided by Mr. Douglas Craig and Mr. Andre Champagne who accompanied the Inspector during the inspection of the camp.

The following report is based on observations made at the time of the inspections at Dye –M on August 22 2008. A review of the terms and conditions of the water license was completed with both parties following the individual inspections.

**Part A: Scope and Conditions**

No issues were found with respect to the information contained within this section of the license. The license, as issued, is a Type “B” license classed as Camp Mobilization, Operation, Site Remediation and Associated Uses.

**Part B: General Conditions**

The question of water use fees and security were not included within the context of this inspection.

A review of the Nunavut Water Board FTP – Public Registry was conducted during the writing of this report. License 1BR-DYE0409 was issued on May 6<sup>th</sup>, 2004 for a period of 5 years. An application for renewal of the License was received by the Nunavut Water Board on January 8<sup>th</sup>, 2009.

A review of the Nunavut Water Board FTP – Public Registry was conducted during the writing of this report. An annual report for the 2008 annum was not located. The proponent is reminded that in accordance with the Water License an annual report is required to be filed by March 31<sup>st</sup> 2009 for the year ending December 31<sup>st</sup> 2008. The annual report must contain all items listed within Section 2 (I through vi) of this Part. A copy of this report should also be sent to the Inspector at [Keima@inac.gc.ca](mailto:Keima@inac.gc.ca) .

The Licensee is reminded that it is the responsibility of the licensee to ensure that any documentation submitted by the licensee to the Nunavut Water Board is acknowledged by the Manager of Licensing.

It was noted that during the period of inspection the records for volumes of water used to date were again estimates based on truck loads delivered to and around the site. Metering of water at the intake is the much preferred and more accurate method and is highly recommended by the Inspector. Records of water use must be available for review with the Inspector.



### **Part C: Conditions Applying to Water Use**

At the time of the inspection the licensee had been allocated the use of 150 Cubic meters of water per day for all purposes. Water of all uses is to come from the designated Water Supply Lake.

During the 2007 inspection the Inspector noted that the source for water intake was a freshet or melt stream from higher elevations. In the 2007 report the Inspector requested clarification from the Nunavut Water Board on the use of this stream as the water source. A review of correspondence from the Board on this file was completed and no clarification from the board has been provided. As such the Inspector recommends that this issue be addressed in the renewal license, if issued.

### **Part D: Conditions Applying to Sewage Disposal**

During the inspections of the Inspector noted that a second cell had been constructed adjacent to the original Lagoon. When questioned the Camp manager Mr. Champagne and Mr. Craig stated that this was done to increase the holding time and capacity of the lagoons as the number of persons in Camp had exceeded the capacity of the Single cell Lagoon in the previous year.

Dried matter / slurry commonly found in lagoon systems was again noted leading away from a previously used lagoon indicating a past release originating from within the lagoon system. No record of a spill or release was available during the inspection.

### **Part E: Conditions Applying To Solid Waste Disposal**

The proponent is reminded to include in the 2008 annual report due on March 31<sup>st</sup> 2009 a list of hazardous materials shipped out of the camp, the treatment received, and the location of the approved treatment facility to which they were sent. Shipping and receiving invoices are not required so long as the records are available for inspection during the 2009 inspection season.

The capability of the incinerator to meet the Canada-wide Standards for Dioxins and Furans and the Canada-wide Standard for Mercury Emissions was not reviewed with the proponent. The licensee is reminded that the Nunavut Water Board has recommended that this standard be met by the Licensee.

An inspection of the Non-hazardous land fill was conducted during the Inspection. No issues were noted with the facility.

### **Part F: Conditions Applying to the Undertaking**

During the period of Inspection the licensee was referred to Section 1 of this part. The licensee stated that the current construction parameters were all in accordance with the issued license and plans submitted to the Nunavut Water Board. These Plans were not found on a search of the Nunavut Water Board FTP site.

The Inspector seeks information on the results of compaction tests on the berms constructed around the hazardous and non-hazardous waste areas. The Inspector also seeks information on equipment used in their construction. This information must be provided prior to the start of the 2009 construction season.

### **Part G: Conditions Applying To Spill Contingency Planning**

A review of the Water Board FTP site conducted during the development of this report found both an updated Spill Response Plan and Spill Contingency Plan submitted as part of the Licensee's application for license renewal.

The licensee is reminded that it is the responsibility of the licensee to ensure that any documentation submitted by the licensee to the Nunavut Water Board is acknowledged by the Manager of Licensing.



The Licensee is reminded that as per Section 5 (iii) of this Part the Licensee is required to submit a detailed report on each spill occurrence no later than 30 days following the initial event.

The proponent is reminded that secondary containment for fuel storage is required as it prevents uncontrolled and accidental discharges to water and the environment. This includes fuel stored at the camp, the landing strip and any caches as well as any fuel transfer area.

During the period of Inspection it was noted that on-going maintenance of the Fuel storage area required the tankers used to store fuel to be moved outside of the Secondary Containment area for fuel transfer and storage. It is highly recommended that in the future this does not occur and fuel is only dispensed and or stored in areas with secondary containment.

#### **Part I: Conditions Applying To Abandonment And Restoration or Temporary Closing**

As noted in the current License issued by the Nunavut Water Board the licensee is required to submit Abandonment and Restoration Plans 6 months prior to the completion of on site activities.

#### **Part J: Conditions Applying To The Monitoring Program**

As per Section 1 of this Part the Licensee was to submit for approval a monitoring program to the Nunavut Water Board within 6 months of the issuance of the current license. A review of the Nunavut Water Board FTP site could not locate the required Monitoring program or an approval from the Nunavut Water Board.

As noted and in accordance with Section 5 of this Part the Licensee submitted a Quality Control/ Quality Assurance Plan to the Nunavut Water Board. This Plan will be reviewed and approved by the Nunavut Water Board.

The licensee is reminded that it is the responsibility of the licensee to ensure that any documentation submitted by the licensee to the Nunavut Water Board is acknowledged by the Manager of Licensing.

**Non-Compliance:** Issues identified during the inspection and/or review of relevant material

#### **Issues with a known or anticipated human health impacts;**

None

#### **Issues where there is a known or anticipated environmental impairment;**

- Fuel storage secondary containment.
- Information as requested on the construction and specifically the compaction and testing of both the hazardous and Non-hazardous waste management areas.

#### **Issues where there is a known or suspected violation of a requirement of the Water License or Act;**

- None

**Andrew Keim**  
Inspector's Name

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Inspector's Signature

Cc:

Bernie Mac Isaac – A/Manager Field Operations Section- Indian and Northern Affairs Canada  
Phyllis Beaulieu – Manager licensing – Nunavut Water Board