



Inspection Report

License #: 3BM-CLY

Inspector: A. Keim

CIDMS # 364700

Client	Municipality of Clyde River		
Mailing Address	Box 89		
Inspection site location	Clyde River, Nunavut		
Contact name	Bill Buckell	Title	SAO
Last inspection date	August 18,2008		
Inspection start date	August 19, 2009		
Region	Qikiqtani		



INAC, Nunavut District
P.O. Box 100
Building 918
Iqaluit, NU, X0A 0H0

Submitted Via E-Mail

Our File: 3BM-CLY0909

Your File: _____

CIDM # 364700

November 3, 2009

Bill Buckell
Senior Administrative Officer
Box 89
Clyde River, Nunavut
XOA OEO

RE: August 19th, 2009 Municipal Water Licence 3BM-CLY0909

The following inspection report was generated on an inspection conducted to determine compliance with the terms and conditions of the Amended Water License issued to the Hamlet of Clyde River by the Nunavut Water Board (NWB). The report references the water license and the findings observed. During the writing of this report a review was undertaken of the documents located on the Nunavut Water Board's FTP site.

The Inspector would like to thank Mr. Bill Buckell, Senior Administrative Officer for the Municipality of Clyde River for taking the time to meet during the inspection period and for acting as guide during the inspection of the potable water source and waste management areas.

Previous findings:

On May 23rd, 2008 a structural failure of the existing lagoon system in the community resulted in the release of approximately 5,000 Cubic meters of sewage¹ into the environment. This followed Inspections conducted in both 2006 and 2007 where the integrity of the lagoon was indentified as an issue by the Inspector. An Inspection was completed again in 2008 and found the following issues;

Issues with a known or anticipated human health impacts;

- Sewage treatment in the community continues to be below standard.
- Failure to collect and submit for analysis the sample results required on the Monitoring Program.

Issues where there is a known or anticipated environmental impairment;

- Failure to undertake such works so to mitigate and remediate such lands and waters as were effected by the failure of the current lagoon.
- A failure to undertake such works as was required to prevent the erosion and failure of the existing lagoon system.

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

- Install and maintain the appropriate signage, and Surveillance Network Program. (SNP)
- Develop a Quality Assurance/ Quality Control Plan.(contact the Nunavut Water Board)
- Develop a Solid Waste Disposal Operations and Maintenance Manual.
- Develop and submit for approval a Sewage Sludge Waste Management Procedure or manual as required.
- Address concerns identified by the Inspector concerning the Sewage Lagoon.
- Submit Abandonment and Restoration plans as required.
- Collect and submit for analysis the samples required on the Monitoring Program.

¹ Trow Associates Report , Ref # OTCD00019055A, Page 1 paragraph 2, Dated June 3rd, 2008, Surinder K. Aggarwal & Steven L. Burden , Senior project Managers Trow Associates.



The Water Licence for the community (3BC-CLY0308) originally expired on September 15, 2008, during a review for a requested amendment. In the interim, a renewal application for NWB3CLY0308 had been filed by the Government of Nunavut on behalf of the Licensee during the amendment process. As such the NWB extended the expiry date of the licence by six months, from September 15, 2008 to March 15, 2009, to allow for processing of the renewal application and work to proceed under the amendment.

During this process NWB received comments on the application from interested parties including Indian and Northern Affairs Canada (INAC), the Government of Nunavut Department of Environment (GN-DOE), the GN Department of Culture, Language, Elders, and Youth (CLEY), and Environment Canada (EC). Based on a review of the above submissions, a teleconference held on February 13th, 2009 and the results of the detailed assessment of the renewal application, the Nunavut Water Board approved the application and on March 18th, 2009 issued an 8 month licence 3BM-CLY0909.

As a condition of the extension license and because of issues of non-compliance with the now expired license the Nunavut Water Board imposed as per Part B, Item 12 of the Licence, a condition for the submission of a Plan for Compliance that clearly demonstrates how the Licensee will achieve full compliance with the Licence conditions during the duration of the existing license (8 months) and over time in consideration of subsequent licence term(s).

As such, the Municipality of Clyde River had in place a current water license during the Inspection conducted August 19, 2009.

During the period of the 2009 Inspection the following issues were identified by the Inspector;

- The community potable water source (Water Source Lake) appeared to be drawn down. A program of monitoring the water level in the Source Lake should be implemented to prepare for and address in advance, any shortages that may be encountered.
- During the Inspection, chlorination records and usage data (records) were not available for review. This information is to be available during the period of the next Inspection.
- The Licensee has filed the required 2008 Annual report.
 - The 2008 report was found to be deficient and failed to include the requisite information as outlined in Part B Item 2. (a through n)
- The Licensee has failed to provide information on the Monitoring program as required under Part B item 1 as it was not collected. The licensee and their agent are reminded that compliance with the license is mandatory, not optional.
- Construction of the new second lagoon cell was underway during the period of Inspection. At the time it was impossible to determine what the compliance and monitoring points for discharge would be as construction had not progressed to that point. This is to be completed during the 2010 inspection.
- Decanting of the single cell lagoon was undertaken during this period however sampling was not undertaken by the licensee.
- Segregation of wastes in both the Municipal Waste Management Area and that of the bulk metals area is required. Part D item 7 requires that hazardous wastes including waste oil, within the Solid Waste Disposal Facility are stored in a manner as to prevent the deposit of deleterious substances into any water, until such a time as proper disposal arrangements are made.
- The Municipal Waste Management Area requires fencing to prevent materials and debris from being transported off site and into the community.
- It was noted during the period of Inspection that a Plan for Compliance was to have been submitted by April 18th, 2009. The Plan has not yet been submitted to the Nunavut Water Board or the Inspector for review. The Licensee is reminded that this Plan forms an integral component of the License as is a mandatory requirement.
- No Thermistors had been installed during the period of the Inspection.
- During the inspection it was also noted that the Licensee has not installed signage noted under the Surveillance Network Program.



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

The Licensee is required, in accordance with the terms and conditions of the current license to submit those items as outlined in the water license 3BM-CLY0909.

- Submit as required a complete Annual report. (Part B(2)
- Submit as required a Plan for Compliance. (Part B (12)
- Develop and submit an *Operation and Maintenance Manual*, subject to the requirements of Part F (1).
- Develop and Submit an Operation and Maintenance Manual for the Enhanced Sewage Disposal facility in accordance with Part F (2).
- Install thermistors, monitoring standpipes and settlement monitoring stations as described in the application documents, dated March 10, 2008 as per Part F (5).
- Submission of a geotechnical Inspection report to be completed annually in July (Part F (8)).
- Submit as required all Abandonment and Restoration Plans (Part G) (as required).
- Implement the requirements listed under the Monitoring Program (Part H – all parts that apply currently and not subject to the commissioning of the Enhanced Sewage Disposal facility).

The Municipality of Clyde River continues to operate in Non-conformity with the terms and conditions of the issued Water License. Municipalities are encouraged to contact the Nunavut Water Board and the Inspector to determine how best to achieve and maintain compliance.

A. Keim
Inspector's Name

Original signed
Inspector's Signature

Cc:

Peter Kusugak – Manager Field Operations Section- Indian and Northern Affairs Canada

Phyllis Beaulieu – Manager licensing – Nunavut Water Board

Bhabesh Roy, Regional Engineer - Qikiqtani – Dept of Community and Government Services, Government of Nunavut











