



## MUNICIPAL WATER USE INSPECTION FORM

<b>Date:</b> June 30,2014	<b>Licensee Rep. (Name/Title):</b> Paul Clow, Keith Coutier, Paul Keenainak
<b>Licensee:</b> City of Iqaluit	<b>Licence No.:</b> 3AM-IQA0712 <b>Expired</b>

**Comments:** This inspection was completed to determine the state of compliance with the now expired Water Licence and Compliance Plan submitted by the City of Iqaluit (City) to regulators in response to an Inspector's Direction issued by Aboriginal Affairs and Northern Development Canada (AANDC) on March 5<sup>th</sup>, 2013. Two quarterly meetings have taken place since the issuance of the Direction. The City has managed to stay within the deadlines set at this point.

Currently the City has an expired License. The City has initiated the renewal process.

### WATER SUPPLY

<b>Source(s):</b> Lake Geraldine	<b>Quantity used:</b> Unknown- est. 2 500 000 L per day
<b>Owner:/Operator:</b> City of Iqaluit	

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

<b>Intake Facilities:</b> A	<b>Storage Structure:</b> A	<b>Treatment System:</b> U	<b>Chemical Storage:</b> A
<b>Flow Meas. Device:</b> A	<b>Conveyance Lines:</b> A	<b>Pumping Stations:</b> A	<b>Screen:</b> NI

**Comments:** During the Inspection of the Water Treatment Plant the Inspector identified the following;

- One UV light system was found to be non-functional during time of inspection.
- Water sampling and daily testing records were found complete and in order.
- The 2013 Annual Report had been submitted.
- It was noted that in 2013 a Dam Safety Review had been completed in August of 2013. At the time of the October 2013 Inspection the report had not been finalized and was not available for review. The Report has since been submitted to the Inspector and the Nunavut Water Board. A plan to address the recommendations in that report has been undertaken by the City with the majority of the work scheduled for 2015.
- Chemicals were found stored in secondary containment inside the building.
- MSDS documentation available for hazardous materials onsite.
- At the time of the Inspection a great deal of ice remained at the foot of the Lake Geraldine dam, it was not possible to see this area for a visual inspection.
- New signage had been installed around the perimeter of Lake Geraldine as committed to in 2013.

### WASTE DISPOSAL

**Sewage: Sewage Treatment System (Prim./Sec/Ter.): Solids Removal**

<b>Natural Water Body:</b> No	<b>Continuous Discharge</b> (land or water): <b>Yes</b>	
<b>Seasonal Discharge:</b> Decant of lagoon as required	<b>Wetlands Treatment:</b> N	<b>Trench:</b> None

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

<b>Discharge Quality:</b> U	<b>Decant Structure:</b> A	<b>Erosion:</b> NI
<b>Discharge Meas. Device:</b> NI	<b>Dyke Inspection:</b> NI	<b>Seepages:</b> NI
<b>Dams, Dykes:</b> A	<b>Freeboard:</b> A ( at lagoon)	<b>Spills:</b> A
<b>Construction:</b> A	<b>O&amp;M Plan:</b> NI	<b>A&amp;R Plan:</b> NI
<b>Periods of Discharge:</b> Cont.	<b>Effluent Discharge Rate:</b> based on estimate only	

**Comments:** During the Inspection of the Waste Water Treatment Facility the Inspector noted the following;

- Daily sampling results and logs found on site were up to date.
- A Sludge Waste Management Manual was submitted with the application for renewal application and is to be reviewed by the Nunavut Water Board.
- Operational Manuals for the plant were noted on site.
- Samples collected during the period of Inspection
- The Licensee did not conduct sampling at the time of the inspection.
- It was noted that a decant of the Emergency Lagoon had recently been completed, the volume estimates and sampling results will be forwarded to the Inspector as soon as tabulated and received from the Lab.
- A large area of hydrocarbon contaminated soils identified in 2013 was found to have been cleaned up properly. No evidence of new spills was found at the site.



**Solid Waste: Municipal Solid Waste Management Site      Owner/Operator: City of Iqaluit**

<b>Landfill:</b> Y	<b>Burn &amp; Landfill:</b> N	<b>Other:</b> Waste/Bulk Metals
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**Comments:** An Inspection was not completed during this period because of the fire and on-going hazards on site.

**FUEL STORAGE:      Owner/Operator: Government of Nunavut**

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

<b>Berms &amp; Liners:</b> NI	<b>Water within Berms:</b> NI	<b>Evidence of Leaks:</b> NI
<b>Drainage Pipes:</b> NI	<b>Pump Station &amp; Catchments Berm:</b> NI	
<b>Pipeline Condition:</b> NI	<b>Condition of Tanks:</b> NI	

**Comments:** These tanks belong to the Government of Nunavut and do not form part of the issued Water License for the City of Iqaluit.

- It is noted that the City of Iqaluit conducted a decant of the retention pond on June 23<sup>rd</sup> and the sample results of that testing will be submitted to the Inspector upon receipt from the Lab.

**SURVEILLANCE NETWORK PROGRAM (SNP)**

<b>Samples Collected</b>	<b>Owner /Operator:</b> Samples collected by Licensee to be submitted with annual report unless requested by the Inspector.	
2	<b>AANDC Inspector:</b> Potable water source, Effluent,	
<b>Signs Posted</b>	<b>SNP:</b> A	<b>Warning:</b>
<b>Records &amp; Reporting:</b> Records of daily checks and sampling at Water Treatment and Waste Water Treatment Facilities were noted.		
<b>Geotechnical Inspection:</b> Dam Safety review completed in 2013.		

**Comments:**

During the period of Inspection it was noted that the City of Iqaluit has been working diligently to fully implement all of the conditions contained in the monitoring program. Sample results and compliance with the license criteria is to be confirmed upon receipt of the results by the Inspector.

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

The City of Iqaluit has recently applied for a renewal to their water license and has provided the Nunavut Water Board a number of plans to address the deficiencies noted in this and previous inspection reports prepared since 2006.

On March 5, 2013 in response to issues of Non-compliance, an Inspector's Direction under the Authority of the Nunavut Water and Nunavut Surface Rights Tribunal Act was issued by an AANDC Inspector. On that same day and in conjunction with the AANDC Direction, the Department of Environment, Government of Canada also issued a Fisheries Act Direction to the City. Both of these Orders remain in force at the time of the Inspection.

At the time of the Inspection a great deal of the City's resources were tied up in the on-going Dump Fire and as such the Inspection of the Solid Waste Management Area was not completed. It is expected that this will not be the case for the second Inspection of 2014.

A further Inspection of the City's progress towards compliance will be scheduled for October of 2014.

Andrew Keim  
Inspector's Name

Sent by E-mail (Original signed and on file)  
Inspector's Signature

Cc:

Erik Allain      - Manager Field Operations, AANDC

Phyllis Beaulieu – Manager Licensing- Nunavut Water Board



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