



WATER LICENCE INSPECTION FORM

☒ Original  
☐ Follow-Up Report

Licensee		Licensee Representative	
Hamlet of Pangnirtung		Shawn Terpanier	
Licence No. / Expiry		Representative's Title	
3BM-PAN1417		Senior Administrative Officer	
Land / Other Authorizations			
None			
Date of Inspection		Inspector	
July 22, 2015		Justin HACK	
Activities Inspected			
<input checked="" type="checkbox"/> Camp/Municipality	<input type="checkbox"/> Drilling	<input type="checkbox"/> Mining	<input type="checkbox"/> Construction
<input type="checkbox"/> Roads/Hauling	<input type="checkbox"/> Other:	<input type="checkbox"/> Other:	<input type="checkbox"/> Reclamation
<input type="checkbox"/> Fuel Storage			

Conditions:		A - Acceptable	C - Concern	U - Unacceptable	NA – Not Applicable	NI – Not Inspected	
Water Use		Condition	Comment	Site Conditions		Condition	Comment
Intake/Screen	A			Water Management Structures		U	12, 13
Flow Measure. Device	A			Culverts / Bridges		A	
Source:	A			Drainage		A	
Water Use:	A			Erosion / Sediment		A	
Recirculation ( y / n)	NA			Mitigation Measures		A	
				Reclamation Activities		A	
				Materials Storage		A	
Waste Disposal				Signage		A	
Waste Water	A						
Solid Waste	C	8		Monitoring			
Hazardous Waste	C	15		Sample Collection / Analysis		NI	
*The number in the comments field will correspond with specific comments provided below.							
Samples taken by Inspector:			Location(s):				
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							

SECTION 1	<input checked="" type="checkbox"/> Comments	<input type="checkbox"/> Non-Compliance with Act or Licence	<input type="checkbox"/> Action Required
<b>Inspectors Statement</b>			
On July 22 2015, a water licence inspection was conducted at the Hamlet of Pond Inlet, Qikiqtani Region, Nunavut. Sites inspected included the Waste Water Treatment Plant, the Solid Waste Disposal Facility, and the Water Distribution Facility.			
<b>Background</b>			
The Hamlet of Pangnirtung has an active licence for the use of 299 cubic meters of water per day and is permitted to dispose of waste in its Waste Water Treatment Plan, Solid Waste Disposal Facilities and Metal Disposal Facility.			
<b>Inspection</b>			
<b>Water Use and related structures:</b>			
1. Water is being withdrawn from the Duval River as approved in the Water Licence.			
2. In 2014, the Hamlet of Pangnirtung withdrew approximately a total of 52,542m <sup>3</sup> of water and is withdrawing water at approximately the same rate in 2015.			
3. Berm walls around the Water Storage Reservoir show no signs of slumping or cracking.			
<b>Waste Water Treatment Plant</b>			
4. No concerns with the operation of this facility.			
5. The Licensee is reminded to maintain up-to-date records of all sampling that occurs at the facility.			
<b>Solid Waste Facility:</b>			
6. Fencing around the Solid Waste Disposal Facility was windblown on the western edge but the Hamlet was actively fixing this concern.			
7. At the time of inspection, Pangnirtung was open burning domestic waste as a waste management procedure.			
8. A small flow of uncontrolled leachate was passively flowing out of the South-Western corner of the Landfill Facility. As outlined on <i>Page ix</i> of the Licence, the Nunavut Water Board understands that a small amount of leachate can leave the site and enter the surrounding environment. Due to the active open burning in the facility, I noted concern that this was not accounted for in the licence. This leachate was sampled by the Hamlet at the time of inspection and results will be provided to the inspector. If sample results indicate significant pollutants, the Hamlet will be asked to provide a plan to address this.			



9. Ditches around the domestic land fill are in good order and are sufficient to channel water around this facility.

**Metal Storage Area**

- 10. The community is segregating and storing metals, vehicles, batteries, and electronic waste within the Metal Storage Area.
- 11. Batteries are being stored in a contained sea can in anticipation for transportation to a southern disposal facility.
- 12. Due to changing drainage patterns coming off of the mountains behind the metal disposal area, the berm walls surrounding this facility have breached. Water is flowing through the site at three different locations and appears to mobilize fluids/materials from this facility that are leaking from vehicles.
- 13. This has been flagged as a major concern and an Inspector’s Direction was issued to the Hamlet of Pangnirtung to take immediate actions to remedy this situation. The Licensee has been given to October 31, 2015 to address this issue.
- 14. The space required for the metal storage remains an issue for Pangnirtung. Practical short-term solutions do not appear feasible and the community is trying to determine a plan to deal with this issue.


**Hazardous Waste:**

- 15. Hazardous materials and waste are being segregated in different areas around the Hamlet. The Licensee is reminded to remain diligent to prevent these wastes from entering water and the environment.

SECTION 2	<input type="checkbox"/> Comments	<input type="checkbox"/> Non-Compliance with Act or Licence	<input checked="" type="checkbox"/> Action Required
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**Inspector’s Direction:**

An Inspector’s Direction was issued to the Hamlet of Pangnirtung on August 10, 2015 to remedy the situation at the Metal Storage Area. The Hamlet has been directed to implement measures immediately to stop the spill of fluids from the Meral Storage Area into streams, and to repairs the damaged berm wall surrounding the Metal Storage area and properly divert water around the facility by October 31, 2015.

Inspector’s Name	
Justin Hack	
Signature	
	
Date	
August 19, 2015	