

WATER LICENCE INSPECTION FORM

☒ Original

☐ Follow-Up Report

Licensee	Licensee Representative
Hamlet of Kugaaruk	Etienne Kakkianiun
Licence No. / Expiry	Representative's Title
3BM-PEL1929	Foreman
Land / Other Authorizations	Land / Other Authorizations
	--
Date of Inspection	Inspector
July 30, 2024	Jonathan MESHER
Activities Inspected	
<input type="checkbox"/> Camp	<input type="checkbox"/> Drilling
<input type="checkbox"/> Roads/Hauling	<input type="checkbox"/> Mining
	<input type="checkbox"/> Construction
	<input type="checkbox"/> Reclamation
	<input type="checkbox"/> Fuel Storage
	<input checked="" type="checkbox"/> Other: Hamlet waste storage.

Conditions:    **A - Acceptable**    **C - Concern**    **U - Unacceptable**    **NA – Not Applicable**    **NI – Not Inspected**

Water Use	Condition	Comment	Site Conditions	Condition	Comment	Haz/Mat Management	Condition	Comment
Intake/Screen	NA		Water Management Structures	NA		Storage	U	
Flow Measure. Device	NA		Culverts / Bridges	NA		Spills	C	
Source:	NA		Drainage	NA		Spill Plan	NI	
Water Use:	NA		Erosion / Sediment	NA				
Recirculation ( y /n)	NA		Mitigation Measures	A		Administrative		
			Reclamation Activities	NA		Records	NI	
			Materials Storage	NA		Reports	NI	
Waste Disposal			Signage			Plans	NI	
Waste Water	C					Notifications	A	
Solid Waste	U		Monitoring			Other		
Hazardous Waste	U		Sample Collection / Analysis	A		Follow-up from previous inspection	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    ☒ Comments    ☐ Non-Compliance with Act or Licence    ☐ Action Required

On July 30, 2024 I Jonathan Mesher of CIRNAC conducted inspection of the below water licence facilities to ensure compliance with the licence 3BM-PEL1929.

Waste Management

1. During the inspection it was noted the licensee does not appear to be operating the Landfill as approved in the Hamlet of Kugaaruk, NU Solid Waste Facility Operation and Maintenance Manual due to the following reasons;

a) The licensee does not appear to be covering and compacting the waste as describe in “Figure 3-1. Area Method of Solid Waste Disposal in a Landfill”, see photos 1 and 2 for the uncovered and spread out waste at the landfill.

b) At the time of the inspection there was significant amounts of hazardous waste not within the storage berms on at the landfill/metal dump. Section 3.2.2 of the Hamlet of Kugaaruk, NU Solid Waste Facility Operation and Maintenance Manual states; “Hazardous Wastes Hazardous wastes include waste such as paint, used oil and waste fuel, mercury thermometers and switches from household appliances, capacitors and ballasts, antifreeze, propane tanks, small flammable or explosive containers, etc. These items are to be stored within the designated storage berms located within the municipal solid waste site, until the wastes can be properly crated and shipped to an appropriate disposal facility.” See photos 3 and 4 for pictures of potentially hazardous materials outside of secondary containment.

- a) There appears to be significantly more Hazardous materials on site than the facility is able to contain. Section 3.1.7 of the Hamlet of Kugaaruk, NU Solid Waste Facility Operation and Maintenance states; “Three lined cells have been built specifically for the storage of hazardous materials. Similar to the waste batteries, hazardous materials will be stored for up to one year and then shipped to a southern facility for proper disposal.” See photo 5 for the full secondary containment.
2. Part D, item 9 of the 3BM-PEL1929 states; “The Licensee shall implement measures to prevent hazardous materials and/or leachate from the Solid Waste Disposal Facilities from entering water”. During the inspection the following instances of leachate and/or waste to water were noted;
- a) There was leachate leaving the entrance of the landfill, entering ditches outside the facility. see photo 6 for the leachate leaving the facility.
- b) There was a stream flowing through an area where the licensee has placed hazardous material outside secondary containment at the metal dump area. See photos 7 and 8 for photos of the stream flowing through hazardous material storage.
3. During the inspection of the Lagoon there was significant amounts of floating liner within the lagoon. See photo 9 for the floating liner.
4. At the time of the inspection the licensee informed the inspector that the that the lagoon was leaking, no leak was visible at the time potentially due to the low level of the lagoon.

Water Management

5. During the inspection of the water intake facility there was no concerns noted, the flow meter appeared to be operating as intended.

Section 2


☐ Comments

☐ Non-Compliance with Act or Licence

☒ Action Required

**The licensee is to provide a plan 2 weeks after receiving the report to ensure the following concerns are addressed, this plan shall include a timeline for implementation.**

- a. The licensee is to utilize the secondary containment on site to comply with the requirement to segregate the hazardous waste at the landfill and the metal dump.
- b. The licensee is to provide information on the last time Hazardous waste was shipped out of the community and provide a plan to ship hazardous waste to an approved disposal facility.
- c. The licensee is to start piling, compacting and covering the waste as described in the Hamlet of Kugaaruk, NU Solid Waste Facility Operation and Maintenance Manual.
- d. The licensee is to provide a plan to ensure the sewage lagoon is operating as intended and is containing the effluent.


Inspector's Name	
Jonathan MESHER	
Signature	
	
Date	
November 11, 2024	

Water Resource Officer, Nunavut Region  
Crown Indigenous Relations and Northern Affairs Canada – CIRNAC  
Jonathan.mesher@canada.ca  
Office #: 867-222-0118





Date	Camera	Inspector	Authorization
July 30, 2024	Sony Cyber-shot	J.Mesher	3BM-PEL
Photo Log			
Photo 1			
			
Description: not compacted or covered landfill.			

Date	Camera	Inspector	Authorization
July 30, 2024	Sony Cyber-shot	J.Mesher	3BM-PEL
Photo Log			
Photo 2			
			
Description: not covered or compacted landfill.			



Date	Camera	Inspector	Authorization
July 30, 2024	Sony Cyber-shot	J.Mesher	3BM-PEL
Photo Log			
Photo 3			
			
Description: Potentially hazardous waste outside of secondary containment at the metal dump.			

Date	Camera	Inspector	Authorization
July 30, 2024	Sony Cyber-shot	J.Mesher	3BM-PEL
Photo Log			
Photo 4			
			
Description: Potentially hazardous waste outside of secondary containment at the metal dump			





Date	Camera	Inspector	Authorization
July 30, 2024	Sony Cyber-shot	J.Mesher	3BM-PEL

Photo Log

Photo 5



Description: Full hazardous waste containment.

Date	Camera	Inspector	Authorization
July 30, 2024	Sony Cyber-shot	J.Mesher	3BM-PEL

Photo Log

Photo 6



Description: Leachate leaving the entrance of the landfill.





Date	Camera	Inspector	Authorization
July 30, 2024	Sony Cyber-shot	J.Mesher	3BM-PEL
Photo Log			
Photo 7			
			
Description: Stream flowing through hazardous waste outside of secondary containment.			





Date	Camera	Inspector	Authorization
July 30, 2024	Sony Cyber-shot	J.Mesher	3BM-PEL

Photo Log

Photo 8



Date	Camera	Inspector	Authorization
July 30, 2024	Sony Cyber-shot	J.Mesher	3BM-PEL

Photo Log

Photo 9



Description: floating liner within the lagoon.

