



WATER LICENCE INSPECTION FORM

☒ Original  
☐ Follow-Up Report

Licensee	Licensee Representative
Baffinland Iron Mines Corporation (BIMC)	Jim MILLARD/William BOWDEN
Licence No. / Expiry	Representative's Title
2AM-MRY1325	Environmental Manager
Land / Other Authorizations	Land / Other Authorizations
2BE-MRY1421	N2014X0012, N2014Q0016, N2014C0013
Date of Inspection	Inspector
Sept 28-29, 2016	Justin HACK
Activities Inspected	
<input checked="" type="checkbox"/> Camp	<input type="checkbox"/> Drilling
<input checked="" type="checkbox"/> Roads/Hauling	<input type="checkbox"/> Other:
<input checked="" type="checkbox"/> Mining	<input checked="" type="checkbox"/> Construction
	<input type="checkbox"/> Reclamation
	<input checked="" type="checkbox"/> Fuel Storage
	<input type="checkbox"/> Other:

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	NI		Water Management Structures	C	5	Storage	NI	
Flow Measure. Device	A		Culverts / Bridges	A		Spills	NI	
Source:	A		Drainage	A		Spill Plan	A	
Water Use:	A		Erosion / Sediment	A	16			
Recirculation ( y /n)	NA		Mitigation Measures	A		Administrative		
			Reclamation Activities	A		Records	NI	
			Materials Storage	A		Reports	A	
Waste Disposal			Signage	A		Plans	A	
Waste Water	A					Notifications	A	
Solid Waste	A		Monitoring			Other		
Hazardous Waste	A		Sample Collection / Analysis	NI		Follow-up from previous inspection	A	
*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
Inspectors Statement			
On September 28-29 2016, a water licence inspection was conducted at the Mary River Project, Qikiqtani Region, Nunavut. Sites inspected included the Mary River Mine Site, the Tote Road and related infrastructure, and the Milne Port area.			
Weather Conditions on Site			
Temperatures were approximately -2°C with snow cover. Large water bodies remained unfrozen, while smaller streams and water in containment was frozen.			
Summary of Report			
At the time of inspection, the Licensee was conducting activities related to the mining of iron ore, which includes blasting, crushing and transporting ore to Milne Port to an awaiting ship.			
Due to the significant snow cover on site and the frozen conditions it was difficult to conduct a thorough inspection. All major activities related to the use of water and deposits of waste were inspected.			
Baffinland has submitted a Dust Mitigation Action Plan and a Sedimentation Mitigation Action Plan to address the ongoing concerns with dust, sedimentation and erosion on site.			
No major concerns are noted in this report			
SECTION 2	<input type="checkbox"/> Comments	<input type="checkbox"/> Non-Compliance with Act or Licence	<input checked="" type="checkbox"/> Action Required
Water Management Structures:			
1. Waste Rock Pile Sedimentation Pond and Surface Water Management Ditches			
a. BIMC explained that proper diversion ditches for this facility were constructed as noted in a previous inspection.			
b. During inspection, snow cover prevented proper inspection of this facility.			
c. Follow-up will be conducted when snow melts.			
2. Crusher Pad Construction			



- a. A recent expansion of this facility was completed.
  - b. It was noted previously that BIMC had installed mitigation measures to address sedimentation during construction.
  - c. At the time of this inspection, BIMC left the mitigation measures in place to address possible sedimentation during spring melt.
- 3. Crusher Pad Sedimentation Pond
  - a. Significant snow cover prevented proper inspection of this facility; however, no signs of leaks were apparent.
- 4. Ore Stockpile Sedimentation Pond West
  - a. During the Jul 2016 Geotechnical Inspection, it was identified that there is concern over the stability of the liner in this pond.
  - b. Furthermore, culvert inlet is possibly allowing water to flow under the liner. This must be repaired during the next construction season.
- 5. Ore Stockpile Sedimentation Pond East
  - a. At the time of the inspection, the water within the pond was approximately 30cm from overtopping. It was recommended to BIMC that this pond be decanted to prevent uncontrolled discharge from this facility.
- 6. Hazardous Waste Berms (MS-HWB1 to 6, and MP-HWB-1, MP-HWB-3 to 5)
  - a. All hazardous waste berms were inspected.
  - b. All waste was contained within the facility and no signs of leaks were apparent.
- 7. Polishing Waste Stabilization Ponds (Three Ponds at Mary River and One Pond at Milne Port)
  - a. Significant snow cover prevented a proper inspection; however, no signs of leaks in the berm walls or tears in the liner were apparent.
- 8. Ore Stockpile Pad Diversion Ditches
  - a. No concerns related to this infrastructure.
- 9. Contaminated Snow Containment Facility
  - a. Significant snow cover prevented proper inspection of this facility; however, no signs of leaks were apparent.
- 10. Landfarm Facility
  - a. Significant snow cover prevented proper inspection of this facility; however, no signs of leaks were apparent.
- 11. Bulk Fuel Storage Facility at Mine Site, Aerodrome, and Milne Port
  - a. No concerns with these structures.

**Water Use:**

- 12. Records for water use were in good order at the time of the inspection at both Milne Port and Mary River Mine Site.
- 13. At the time of the inspection, water was primarily being used to support camp functions.

**Waste Discharges:**

- 14. BIMC was discharging sewage waste as intended. No other discharges of wastes were occurring during the inspection.
- 15. Records of sewage discharges were in good order.

**Erosion and Sedimentation**

- 16. General Site Comment
  - a. Due to the significant sedimentation of waterways around the project, a *Letter of Non-Compliance* was issued to BIMC to address this issue.
  - b. In response to the Letter of Non-Compliance, BIMC has made significant progress related to mitigating sedimentation events from project activities.
  - c. On September 30, 2016 a Dust Mitigation Action Plan and a Sedimentation Mitigation Action Plan was submitted by BIMC to address the concerns over Dust and Sedimentation on site.
- 17. Jetty at Camp Lake
  - a. The construction of this structure was complete at the time of the inspection.
  - b. Proper sedimentation measures were installed during construction.

**Culverts/Bridges**

- 18. Bridges along Tote Road
  - a. In a previous inspection it was noted that road material was being pushed into water courses that are crossed by a bridge.
  - b. BIMC has developed a plan to minimize the amount of road material entering major water courses.
  - c. This will be monitored during future inspections.

Inspector's Name



Justin Hack

Signature

Date

November 9, 2016

Justin Hack  
Water Resource Officer  
Iqaluit, NU  
PH: 867-975-4517  
Email: [Justin.hack@aandc.gc.ca](mailto:Justin.hack@aandc.gc.ca)