

WATER LICENCE INSPECTION FORM

Original	
Follow-Up	Report

Licensee			Licensee Repres				
Baffinland Iron M	lines		Connor D		aux		
Licence No. / Expiry			Representative'				
2AM-MRY Land / Other Authorizations			Land / Other Au		superintendent		
Land / Other Authorizations				itiloi izatioii	3		
Date of Inspection			Inspector				
September 16-17	. 2021		Jonathan	MESH	ER		
Activities Inspected	, = = =						
☐ Camp ☐ ☐ Roads/Hauling ☐	Drilling Other:	Mining	☐ Construc ☐ Other:	ction	Reclamation	☐ Fuel Storage	
Noaus/Hauling	J Other.		Other.				
Conditions: A - Ac	ceptable	C - Concern	U - Unacceptab		NA – Not Applicable	NI – Not Insp	ected
Water Use	Condition Co	mment Site Condition	s	Condit (Comme Haz/Mat Mana	gement Condition	Comment
Intake/Screen	NA	Water Manage	ement Structures	NA	Storage	NA	
Flow Measure. Device	NA	Culverts / Brid	ges	NA	Spills	NA	
Source:	NA	Drainage		NA	Spill Plan	NI	
Water Use:	NA	Erosion / Sedir	ment	NA			
Recirculation (y /n)	NA	Mitigation Me	asures	Α	Administrative		
		Reclamation A	ctivities	NA	Records	NI	
		Materials Stor	age	NA	Reports	NI	
Waste Disposal		Signage			Plans	NI	
Waste Water	NA				Notifications	А	
Solid Waste	NA	Monitoring			Other		
Hazardous Waste	NA	Sample Collect	ion / Analysis	Α	Follow-up from	NI	
					previous inspec	tion	
*TI	he number in	the comments field w	rill correspond with	h specific	comments provided be	elow.	
Samples taken by Inspe	ctor:	Location(s):					
☐ Yes 🖂 No							
SECTION 1	Comments	Non	-Compliance with	Act or Li	cence	Action Required	
Background							
On September 16-17,	2021 Llona	uthan Machar Pacau	rce Managemen	t Officer	of CIPNAC conducts	nd a Water licenc	0
inspection at the Mar			_	it Officei	or cirrinac conducte	a a water neeme	_
mopeetion at the mar	y mver i roj	cet, rote Roda and	viiire port site.				
Inspection							
A) <u>Tote Road;</u> I-60 Crown Land- multi	nla snills of	unknown substance	(notentially mo	tor oil) o	n the ground near th	na narking area S	.00
pto 3 for the spills.	pie spilis oi	unknown substance	s(potentially file	tor on, o	in the ground hear th	ie parking area. 5	CC
oto o for the spino.							
-154A/ Spill 21247- the	re was visib	le erosion on the ro	ad near the culv	ert, upst	ream of the culvert a	and down stream	of
culvert. See photos 4				•			
-115/ spill 21247- no co	oncerns nea	r the culvert.					
442/: 11 24247+						TCC C Db	
-112/spill 21247- poter pr the mentioned ditch	•	engineerea aitches t	ipstream of the	cuivert c	ould be causing incre	eased 155. See Pr	OTO #
br the mentioned ditch	ies.						
-093/spill 21247- poter	ntially non-	engineered ditches	upstream of the	culvert o	could be causing inci	reased TSS. See p	hoto
potentially non-engine	•	-	•		_	·	
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-24/spill 21247- signific	cant erosior	n on both sides of cu		s 8-9 for	the erosion.		
-24/spill 21247- signific	cant erosior	n on both sides of cu		s 8-9 for	the erosion.		





maged culvert.

B) Milne Inlet

1)MP-05- The inspector noted rips on the liner at the inflow after the culvert, the pond appeared to be appropriately pumped down. See photo 11 for pictures of the rips.

2)MP-06- There was erosion noted on the East inflow of the pond, the pond appeared appropriately pumped down. See photo 12 for the erosion noted.

3)Pond 3- Pond 3 is unable to passively drain into MP-06 and the ditch connecting the two ponds is leaking. The surface water on the South West side of the ore pad is unable to drain into Pond 3. See photo 13 for a picture of the hoses used to pump the water from pond 3 into mp-06 and the area leaking.

4)Snow dumps- The snow dumps appear to be contaminated with litter scooped up during the winter season. see photos 14 and 15 for waste in the snow dumps.

5) HWB 03 and 04- the is no defined berm where waste is being stored it appears if a spill did occur the waste would flow outside of this facility. See photo 16 for a picture of this facility.

6)western globe fuel module- there is no visible berm, this pumping station does not appear to be properly contained, if a spill was or occur or if rain was to pool and become contaminated it appears to be able to flow outside of containment. See photo 17 for the lack of defined berms.

C) Mine site

- 1) The inspector noted erosion North of the camp lake intake, is appears surface water from the runway and surrounding area has no water management structure to manage it. This surface water has previously caused erosion near the camp lake tributary and now is eroding the sandy hills north of the water intake. See photo 18 and 19 for pictures of this erosion.
- 2) Aircraft Fuel berm- The inspector noted erosion on the outside of this berm. See photo 20 for the erosion noted.
- 3) Landfill- While inspecting the landfill the following items were noted; food waste, fuel filters two generators, break fluid and a automotive fuel tank. See photo 21 for a photo of some of the items mentioned.
- 4) Mine site snow dump- the mine site snow dump also has significant waste. See photo 22 for the waste in the snow dump
- 5) Waste Rock Stockpile pond- this waste rock stockpile and the surrounding area was snow covered at the time of the inspection making it difficult to identify any concerns, no concerns were noted.
- 6) MS-07/spill 21268- This facility is currently dealing with a seepage issue potentially due to gradient of the ditch and the type of fill used. See Photo 23 for the ditch with the unresolved seepage.
- 7) Crusher Pad and pond- The Crusher pad is currently dealing with a unresolved seepage as well, the ditch that is designed to divert surface water to the containment pond is not operational due to a leak. The licensee currently has a sump installed and is pumping water from the sump into the containment pond. See photo 24 for a photo of the sump and berms installed to keep the surface water out o the ditches.
- 8) Km 104 laydown- during the inspection the inspector noted the following concerns at the 104 laydown;
 - Lubricants and hazardous material outside of containment, in damaged containment and staining which smelled strongly of fuel. See photo 25 for the area with staining and hazardous material outside of containment.
 - Open containers with dirty absorbent rags nearing capacity, see photo 26 and 27 for the containers.
 - Heavy equipment actively leaking on the ground with no drip tray, see photos 28 and 29 for photos of fluid under heavy equipment at laydown 104.

The licensee is to provide a plan to with the following concerns by November 25, 2021.

- 1) The licensee is to install the appropriate erosion control measures to prevent continued erosion identified in comments A1-A7, C1 and C2. The following items in Part C of the license 2AM-MRY1325 require the licensee to prevent erosion and maintain erosion control measures;
- 7 . The Licensee shall not cause erosion to the banks of any body of water and shall provide necessary controls to prevent such erosion.



*

- 8. The Licensee shall implement sediment and erosion control measures prior to and maintain such measures during the undertaking to prevent entry of sediment into Water.
- 2) The licensee is to ensure the following waste/water management structures are operating as intended and consistent with the design in the plans approved by the Nunavut Water Board; Ore stockpile ditches and gradient, Crusher pad ditches, MP-07 ditches, Western Globe Fuel Module, HWB 03, HWB 04.
- 3) The licensee is to remove all waste from the snow dumps and provide a monitoring schedule to ensure the snow dumps are not contaminating the surrounding water bodies.
- 4) The licensee is to remediate all spills noted in this report.

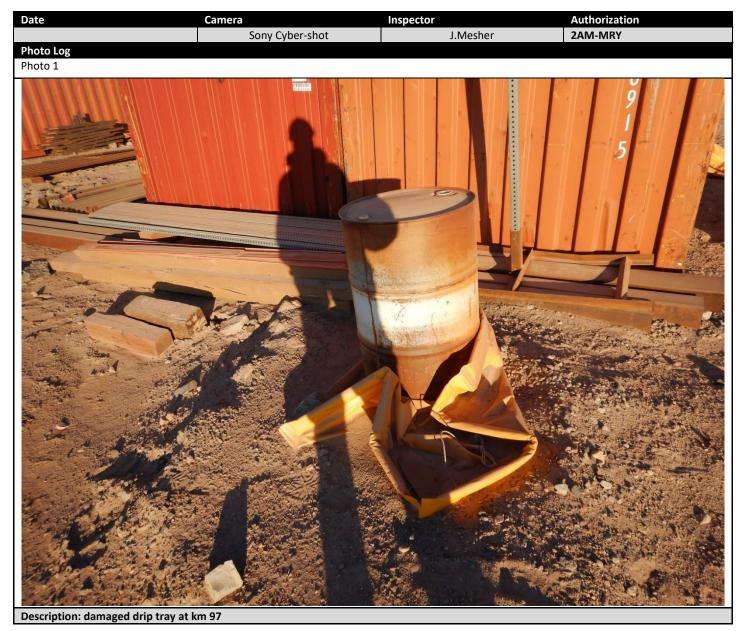
Inspector's Name	
Jonathan MESHER	
Signature	
Date	
October 18, 2020	

Water Resource Officer, Nunavut Region

Crown Indigenous Relations and Northern Affairs Canada – CIRNAC

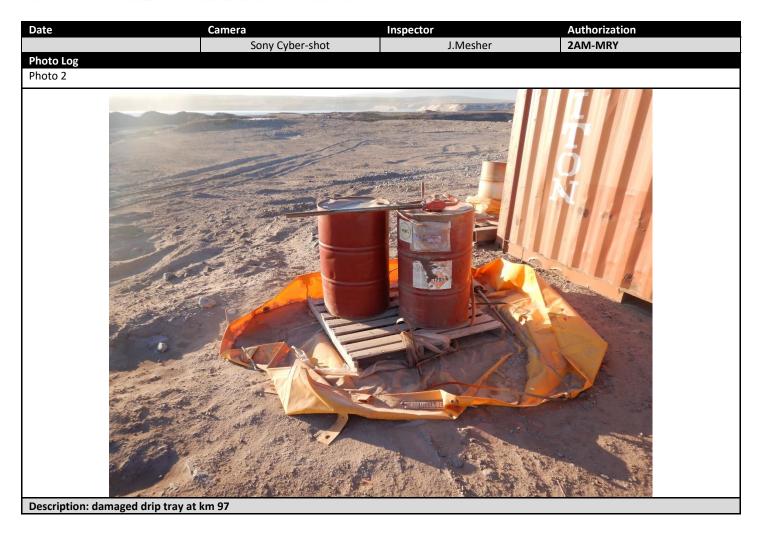
Jonathan.mesher@canada.ca

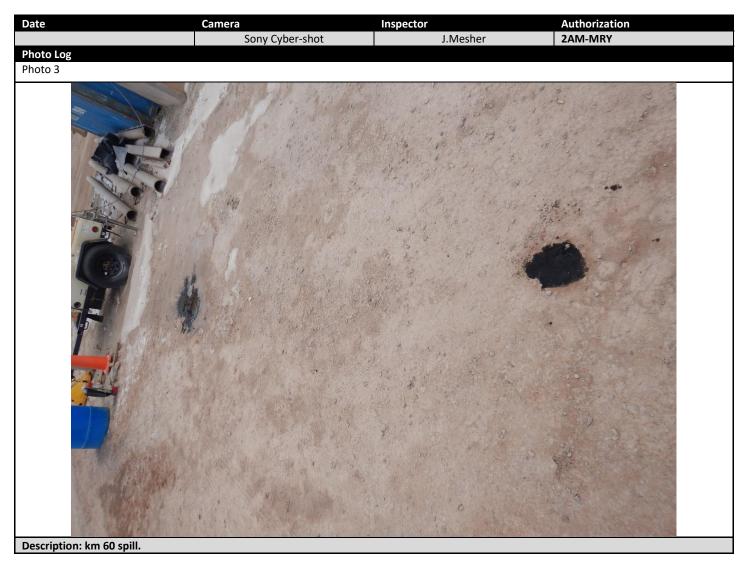
Office #: 867-975-4296 Fax: 867 979-6445

















Date	Camera	Inspector	Authorization
September,16-17 2021			
	Sony Cyber-shot	J.Mesher	2AM-MRY
Dhoto Log			







Description: Cv-112, potential cause of TSS.

Date	Camera	Inspector	Authorization
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Photo Log			
Photo 7			







Date	Camera	Inspector	Authorization
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Photo Log			



Description: BG-24, erosion on down stream side of culvert/ damaged culvert.

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	Sony Cyber-shot	J.Mesher	2AM-MRY
Photo Log			

Photo 9

Description: BG-24, erosion on down stream side of culvert/ damaged culvert.





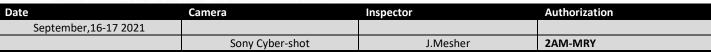


Photo Log

Photo 10



Date Inspector Authorization September,16-17 2021 Sony Cyber-shot J.Mesher 2AM-MRY Photo Log

Photo 11







Date	Camera	Inspector	Authorization
September,16-17 2021			
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Photo 13



Description: hoses required for pumping and leaking area of the ditch.





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Authorization September,16-17 2021 Sony Cyber-shot J.Mesher 2AM-MRY Photo Log





Description: previous snow dump still containing plastic, metal and wood waste





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Photo Log

Photo 17



Description: lack of defined berms at fuel module.





Date	Camera	Inspector	Authorization
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Description: Erosion near water intake, standing on runway perimeter road looking towards camp lake.

Date	Camera	Inspector	Authorization
September,16-17 2021			
	Sony Cyber-shot	J.Mesher	2AM-MRY
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Photo Log Photo 19



Description: Erosion near water intake, standing near intake looing at the hillside.





Date	Camera	Inspector	Authorization
September,16-17 2021			
	Sony Cyber-shot	J.Mesher	2AM-MRY
Photo Log			

Photo 20



Description: Erosion on outside of aircraft fuel berm

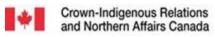
Date	Camera	Inspector	Authorization
September,16-17 2021			
	Sony Cyber-shot	J.Mesher	2AM-MRY

Photo 21



Description: Erosion near water intake, standing on runway perimeter road looking towards camp lake.





Date	Camera	Inspector	Authorization
September,16-17 2021			
	Sony Cyber-shot	J.Mesher	2AM-MRY
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Description: Mine site snow dump.

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September,16-17 2021			
	Sony Cyber-shot	J.Mesher	2AM-MRY
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Photo Log Photo 23



Description: MS-07 ditch with ongoing seepage issue.





Date	Camera	Inspector	Authorization
September,16-17 2021			
	Sony Cyber-shot	J.Mesher	2AM-MRY
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Description: Berm and sump installed.

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September,16-17 2021			
	Sony Cyber-shot	J.Mesher	2AM-MRY

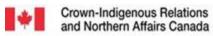
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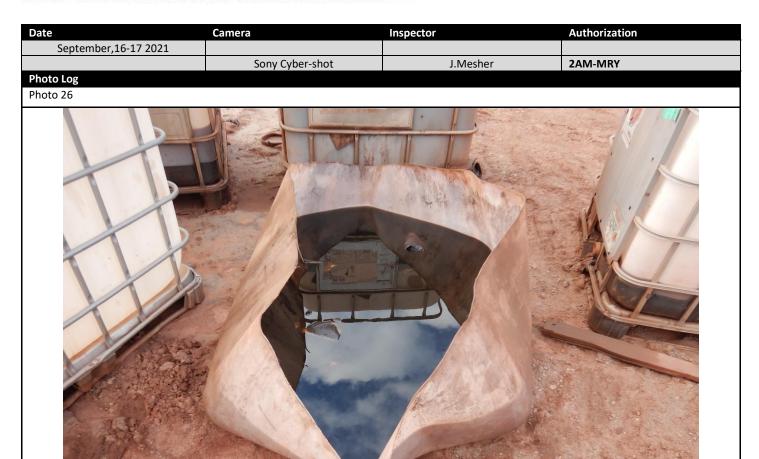
Photo 25



Description: hazardous material outside of containment, in damaged containment and staining in the area.







Description: dirty spill rags and unknown waste in open container outside of containment

Date	Camera	Inspector	Authorization
September,16-17 2021			
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Photo Log

Photo 27



Description: dirty spill rags and unknown waste in open container outside of containment





Date	Camera	Inspector	Authorization
September,16-17 2021			
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Photo 28



Description: fluid leaking from heavy equipment.

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