

### **APPENDIX E.8.2**

# QIA Inspection Reports and Baffinland Response



July 5, 2019

Chris Spencer, Regulatory Manager Qikiqtani Inuit Association P.O. Box 1340 Iqaluit, NU XOA 0H0

RE: Response to QIA May 2019 Site Inspection, Findings and Recommendations

Baffinland Iron Mines Corporation (Baffinland) provides the Qikiqtani Inuit Association (QIA) with the following response to the inspection completed<sup>1</sup> May 20-21, 2019, consistent with the Commercial Lease No. Q13C301.

The attached Table 1 provides Baffinland's responses to the concerns/findings of the QIA inspection, including details where applicable on progress made to date.

Should you have any additional concerns or questions regarding the attached responses, please to not hesitate to contact the undersigned at your convenience.

Regards,

Christopher Murray

**Environmental & Regulatory Compliance Manager** 

**Baffinland Iron Mines** 

Cc: Jared Ottenhof (QIA), Megan Lord-Hoyle, Tim Sewell, Lou Kamermans, William Bowden, Connor Devereaux, Shawn Stevens, Amanda McKenzie (Baffinland)

#### Attachments:

Attachment 1 – Baffinland Responses to QIA Concerns/Findings

Attachment 2 - Baffinland Inspection Forms

<sup>&</sup>lt;sup>1</sup> QIA (2019) Re: Baffinland Iron Mines Corporation's, Mary River Mine – Qikiqtani Inuit Association May 2019 Site Inspection, Findings, and Recommendations. Letter dated June 20, 2019.



### Attachment 1

**Baffinland Responses to QIA Concerns/Findings** 



Table 1 – Baffinland Responses to QIA Concerns/Findings May 2019 Site Inspection

#	Project Location	Description of Concern or Finding	Recommended Action	Deadline	Response
1	Historical borrows and ponding beside roads	Historical borrows and general water accumulation was noted beside the Tote Road, possibly impacting the long- term stability of the Tote Road. Of specific concern were identified at Tote Road KM 89.8, 49.9, 49, 29.4, 21.9, and 7.2.	Baffinland remove ponding water from beside the Tote Road in noted areas to promote permafrost aggradation. Grading and contouring may be required to divert water from ponding next to the Tote Road.	September 1, 2019	Baffinland has developed several protocols to address concerns regarding erosion, permafrost degradation and sedimentation at the Project. Regular inspections of the Tote Road are conducted by the Road Maintenance and Environment Department to ensure areas of potential concern (ex. general water accumulation) are identified, and corrective actions initiated. Visual monitoring is conducted, and if any concerns are identified in an area this will trigger additional monitoring and installation of erosion and sediment control measures. In general, the following measures are implemented to address reoccurring water ponding on site:  Baffinland will work to remove ponding water from beside the Tote Road in noted areas, by regrading or contouring the road banks.  Regular inspections of borrow locations will be completed during this work through the Tote Road Monitoring Program. Any additional unstable slopes identified will be re-graded to eliminate depressions and re-establish natural drainage patterns.  Cut and fill areas will be stabilized by constructing gentle slopes less prone to erosion.  Areas of unexpected settlement will be filled to re-establish the natural contours and eliminate ponding of water.

					Borrow activities will occur only at approved locations and will be concentrated to limit the area of disturbance.  Areas of concern identified by QIA along the Tote Road (KM 89.8, 49.9, 49, 29.4, 21.9, and 7.2) will be further inspected by the Road Maintenance and Environment Department, and ranked based on risk/likelihood of adverse environmental impacts.  Re-contouring/grading of areas will be prioritized in 2019 based on the highest to lowest risk areas of potential concern.
2	Tote Road KM 7.2	Borrow sources of historical concern have fill placed. Grade of road appears near original ground with ponding water encroaching on the road, possibly due to degradation of permafrost.	Baffinland remove water prior to grading fill and provide timelines for grading fill.	September 1, 2019	Following the inspection, Baffinland conducted a detailed examination of the borrow sources along the Tote Road near KM 7.2. Baffinland commits to re-grading the road in this location to reduce the likelihood of ponding water and re-establish natural contours. This work is scheduled to be conducted by the end of 2019.
3	Upgrades to the Tote Road	It appears the Tote Road was raised at KM 52.2. Due to time constraints, the Inspector was not able to inquire with Baffinland's Road Maintenance department as to the triggers for upgrading the road.	Baffinland provide details of the trigger(s) used when upgrading the road.	July 5, 2019	Following consultation with project personnel, the road raising at KM 52.2 has been classified as historic construction work. This road raising was completed several years prior to establishment of the Tote Road Adjustment Notification Process. As a result, Baffinland is unable to provide record of the road raising, and the details triggering the modifications. Baffinland is conducting a detailed records review of historic road modifications. If documents pertaining to this road lift are located, records will be provided to QIA.  Irrespective of the historical nature of the road upgrades, Baffinland will continue to monitor this

					region for any adverse environmental impacts, and signs of permafrost degradation in accordance with the Roads Management Plan and Environmental Protection Plan.
4	SWAEMP and Adaptive Management	Baffinland indicated triggers for additional management and monitoring due to erosion and sedimentation are based on an inspection form. At the time of questioning, there was not enough time to receive the inspection form.	Baffinland provide the inspection form that includes visual indicators for erosion and sedimentation that would trigger follow-up sampling.	July 5, 2019	Attachment 2 includes the 'Tote Road – Sampling Event Monitoring Form' as well as the 'Freshet Water Quality Data Sheet' that outline the visual indicators for erosion and sedimentation that project personnel would use to trigger follow-up sampling. Examples include recording visual observations of water clarity, and turbidity and requirements to fill in whether mitigation measures were implemented and water samples were collected.
5	Roads Management Plan	The thresholds in the Roads Management Plan that were identified by the Inspector do not comply with those included in the DFO report¹ or water license². Specifically, that the downstream location be 10% higher than the upstream location and that there is no differentiation from clear and high flow.	Baffinland to provide evidence or reasoning why a 20% increase in TSS from upstream concentrations is sufficiently conservative compared to DFO's 10% guidance. Baffinland to provide reasoning why there is no differentiation between clear and high flow as indicated in the DFO report. Baffinland to	July 5, 2019	Baffinland will continue to engage with QIA on the review of the Roads Management Plan, and looks forward to receipt of comments on the March 31st submission. Additionally, Baffinland would welcome a meeting with QIA to further discuss the Roads Management Plan.

			provide evidence as to why the aforementioned threshold varies from the project's water license.		
6	Adaptive Management	Visual indicators for adaptive management (e.g., would trigger mitigation measures) were identified to be on an inspection form.	Baffinland to provide the inspection form with details as to when something is identified (e.g., when cracking, sloughing, washout, etc.) and what action is to be taken. Baffinland to provide inspection forms from 2018 and those available in 2019. Baffinland to provide any other on-site adaptive management documents.	July 5, 2019	Roads and water crossings are inspected regularly for signs of degradation and maintenance requirements. Periodic visual inspections are conducted on the Project road network by trained personnel and occur at regular intervals following heavy precipitation events and construction activities. The Project road network will be continually inspected over the life of the Project. Road safety, stability and erosion are several of the main factors that will be investigated during the routine inspections.  Baffinland has provided forms in Attachment 2 with details as to when visual indicators are observed (e.g., when cracking, sloughing, washout, etc.) and what action is to be taken.
7	Waste Rock Facility	Baffinland indicated that there currently is not a QAQC program for waste rock once it is placed in the Waste Rock Facility; that it is currently monitored where the material is removed. This is not in	Baffinland to include a sampling and verification program to be performed on an annual basis, at a minimum, to verify the success of PAG rock segregation	September 1, 2019	Baffinland has committed to and is currently conducting confirmatory sampling of PAG rock segregation and placement in the Waste Rock Facility. In the next update to the Waste Rock Management Plan, Baffinland commits to incorporating a QA/QC program for waste rock once placed in the Waste Rock Facility. The updated plan is to be submitted to QIA by December 31, 2019.

		accordance with the Interim Reclamation and Closure Plan that indicates Waste Rock will be assured to be placed in the appropriate locations of the Waste Rock Facility nor QIA's October 2018 inspection recommendation.	and placement, for approval by QIA.  This recommendation was stated in QIA's June and October 2018 site inspection reports.		
8	Snow Stockpile Inspection Forms	The Inspector requested Baffinland's Snow Stockpile Inspection Forms completed during the 2018-2019 winter period. These inspection forms remain outstanding.	Baffinland provide Snow Stockpile Inspection Forms for the 2018-2019 Winter period.	August 1, 2019	Attachment 2 outlines the Snow Stockpile Inspection Forms completed in the 2018-2019 winter period. The inspections are completed by site environment personnel to document any items of concern identified and the corresponding corrective actions taken.
9	Snow Dumps	Snow dump melt disturbing ground past where Lease delineation markers once were. Markers were clearly pushed over and overall could not be used to clearly identify lease boundaries. The Inspector observed that snow was pushed over the markers and that was confirmed by Baffinland personnel.	Baffinland ensure snow removal operators are aware of markers and do not exceed boundaries.	August 1, 2019	As a proactive measure to prevent sediment release, Baffinland commits to installing silt fencing in the region surrounding the snow dump. Baffinland also commits to conducting additional visual monitoring of the snow dump in accordance with the Snow Management Plan. If any potential adverse environmental impacts are observed, additional sediment and erosion control measures will be installed in the region surrounding the dump. Environmental awareness training will also be conducted with the snow removal operators prior to the 2019/20 winter season. The training will be conducted in accordance with the Snow Management Plan.

10	Snow Dumps	No sedimentation mitigations observed in place. Specifically, at the snow dump around Tote Road KM marker 85.5, runoff was observed to be flowing directly into a flowing stream.	Baffinland provide what triggers additional mitigation measures to ensure runoff from snow dumps are mitigated. Baffinland ensure mitigation measures are in place (e.g. silt fencing) to limit sediment due to snow dump runoff from entering water bodies.	September 1, 2019	As a preemptive measure to prevent sediment release, Baffinland commits to installing silt fencing in the area around Tote Road KM marker 85.5 surrounding the snow dump. Baffinland also commits to conducting additional visual monitoring of the snow dump in accordance with the Snow Management Plan. If any potential adverse environmental impacts are observed, additional sediment and erosion control measures will be installed.
11	Milne Port Snow Dump	Waste, debris, and plastic wrap covering in and around the area of the snow dump.	Baffinland to remove waste, debris, and plastic wrap from all snow dumps.	August 1, 2019	Baffinland applies the principles of pollution prevention, waste reduction and continuous improvement to minimize ecosystem impacts, and facilitate biodiversity conservation. Baffinland commits to removing waste, debris, and plastic wrap from the snow dump, and disposing of the material in accordance with the Waste Management Plan.



#### **Attachment 2**

**Baffinland Inspection Forms** 

	Fres	het	Water Q	uality Da	ta Sl	neet	
Sample ID:		Da	ate:	Time:			Photos:
						Ups	stream:
Samplers:		Ca	amera ID:	Weathe	er:	Cros	ss Section:
YSI Model:		Ca	alibration:			Dov	wnstream:
			Visual Obs	servations			
Water Leve	el (Dry	, Stag	gnant, Low,	Moderate,	High)	:	
Water Clar	ity (Τι	ırbid,	Clear, Shee	en):			
Debris in W	/ater	(Y/N):					
Upstream (	Obser	vation	ns:				
Downstrea	m Ob	serva	tions:				
Inconsister	ncies c	or Con	icerns:				
		Su	bstrate Cor	mposition (	(%)		
Boulde (>256 m	-	_	Cobble -256 mm)	Grave (2-64 m			d/Silt/Clay <2 mm)
			Field Par	rameters			
Time (24- hr)	Temp. (°C)		рН	Cond. (μs/cm)	Turb (N	•	DO (%)

	Fresh	Freshet Water Quality Data Sheet										
Sample ID:		Da	ate:	Time:			Photos:					
						Ups	tream:					
Samplers:		Ca	imera ID:	Weathe	r:	Cros	ss Section:					
YSI Model:	/SI Model: Calibration: Downstrea											
Visual Observations												
Water Level (Dry, Stagnant, Low, Moderate, High):												
Water Clarity (Turbid, Clear, Sheen):												
Debris in W	/ater (\	//N):										
Upstream (	Observ	atior	ns:									
Downstrea	m Obs	erva	tions:									
Inconsister	icies or	Con	icerns:									
		Su	bstrate Cor	nposition (	%)							
Boulde		-	Cobble	Grave	-		d/Silt/Clay					
(>256 m	m)	(64-	256 mm)	(2-64 m	m)	(<	(2 mm)					
		_				_						
			Field Par	ameters								
Time (24- hr)	Temp. (°C)		рН	Cond. (μs/cm)	Turb (N)		DO (%)					

QA/Q	QA/QC Samples (Y o N):					Erosion and M		dime sures		Control	
Field		eld	Travel	Equip.		Required?: Ty			Type?:		
Dup. (01)		ınk 2)	Blank (03)	Blank (04)	Mai	Maintenance Required?:					
				Flow	Mea	surements					
L	eft	Bar	ık	N	∕lid-(	Channel		Ri	gh	t Bank	
Depth (m):	•		Depth (m):		Velocity (m/s):	Depth (m):			Velocity (m/s):		
Wetted Width	t	Bar	nkfull Wi	idth (m):		Bank S	tak	ility	(H/	/M/L):	
(m):						Left:		Rig		ght:	
Weir D	ept	h (n	າ):			V-Notch (m	):				
Notes/	'Cor	nm	ents:			•					

QA/Q		mp I):	les (Y o			Erosion and M		dime sures		Control	
Field		eld	Travel	Equip.	Req	quired?: Τγρε			?:		
Dup. (01)		ınk 2)	Blank (03)	Blank (04)	Mai	Maintenance Required?:					
				Flow	Mea	surements					
ı	eft	Bar	ık	N	∕lid-(	Channel		Ri	ight	t Bank	
Depth (m):	· · · · · · · · · · · · · · · · · · ·				Velocity (m/s):		Depth (m):		Velocity (m/s):		
Wetted Width	t	Bar	nkfull W	idth (n	า):	Bank S	tak	oility	(H/	′M/L):	
(m):						Left:			Right:		
Weir D	ept	h (n	า):			V-Notch (m	1):				
Notes/	'Cor	nm	ents:			•					

		To	te Roa	d - S	Sampling E	ven	t Monitor	ing Form			
										Photos:	
Water Cross	sing ID:			Date	:		Time:		Upsti	ream:	
Samplers:			Cam	era ID:		Weather:		Cross	Section:		
YSI Model:			Calib	ration:				Dowi	nstream:		
Coordinate		oring	Location	Zone	:		Easting:				
(UTM; NAD	33)						Northing:				
					Sampling I	nforn	nation				
	Reason for Sampling (e.g. scheduled sampling, follow-up, etc.):  Water Sample Collected (Y/N):										
Mitigation N	/leasures	Imple	emented	(Y/N)							
		Ī		ı	Field Par	ramet	ters	I			
Time (24	1-hr)	Ten	np. (°C)		рН	Cor	nd. (μs/cm)	Turbidity (N	ITU)	DO (%)	
QA/	'QC Sam	ples (Y	′ o N):				Monito	ring Location	n Desc	cription	
Field Dup. (01)	Field B (02		Travel B (03)		Equip. Blank (04)	(e.g.	. 100m downstream)				
<b>Notes:</b> (Gen	eral obs	ervatio	ons, Devi	ation	s from protoc	col, e	cc.)				



Mary River Snow Stockpile Inspections 2019

Date: Feb 5719
Inspecting Personnel: SJS

#### Mary River Crusher Snow Stockpile



Condition	Yes	No	Cam/Photo #	Comment
Is the stockpile currently in use?. If so, what is the current capacity remaining (% full)		/		
Are there any vehicles/heavy equipment in the work area?.		/		
Is the stockpile boundary clearly marked/snow stockpiled within boudary?				
Does snow contain conaminants such as hydrocarbons or other fluids?		/		If Yes: type of contamination found?
Are the natural drainage patterns of the area still intact?				s: 1)
Is there any refuse within the snow being stockpiled? (I.e. plastic, wood, etc.)	/	1		4
Additional Notes:				

Date: Inspecting Personnel:

#### Mary River Crusher Snow Stockpile



Condition	Yes	No	Cam/Photo #	Comment
Is the stockpile currently in use?. If so, what is the current capacity remaining (% full)		×	×	NOT IN USE
Are there any vehicles/heavy equipment in the work area?.		/		and the second s
Is the stockpile boundary clearly marked?. If so, is the snow being stockpiled within the boundary area?.				
Does snow/ice contain conaminants such as hydrocarbons or other fluids, are any spill present?				If Yes: type of contamination found?
Are the natural drainage patterns of the area still intact?				
Is there any other refuse within the snow being stockpiled? (I.e. garbage, loose material, etc.)				
Is the surrounding frea free of loose debris?				
Additional Notes:				

Date: 12-may-19
Inspecting Personnel: CP/BH/TM

#### Mary River Crusher Snow Stockpile



Condition	Yes	No	Cam/Photo #	Comment
Is the stockpile currently in use?. If so, what is the current capacity remaining (%)	1			
Are there any vehicles/heavy equipment in the work area?.		<b>\</b>		
Is the stockpile boundary clearly marked?. If so, is the snow being stockpiled within the boundary area?.		J		
Does snow/ice contain contaminants such as hydrocarbons or other fluids present?		<b>√</b>		If Yes: type of contamination found?
Are the natural drainage patterns of the area still intact?	<b>V</b>			
Is there any other refuse within the snow being stockpiled? (I.e. garbage, oose material, etc.)				
s the surrounding area free of loose debris?				
Additional Notes: Photo: 03	6-0	37	(unsure of	exact Stockpile boundaries



### **Snow Stockpile Inspection**

Date: \5-J\_00-19
Inspecting Personnel: KN (575
Stockpile Location: Oyno Rd/East

	Condition	Y/N or NA	Item of Concern	Corrective Action
1	Is the stockpile currently in use?. If so, what is the current capacity remaining (% full)	N	NOT IN USE	S S
Ü	Are there any vehicles/heavy equipment in the work area?.	$\wedge$		
2	Is the stockpile boundary clearly marked?. If so, is the snow being stockpiled within the boundary area?.	\		
3	Is the snow clear of contamination?. List type of contamination found (coolant, oil, fuel, sewage)	$\sim$		
4	Are the natural drainage patterns of the area still intact?	7		⊕ ₩
5	Is there any refuse within the snow being stockpiled? (I.e. garbage, loose material, etc.)	$\wedge$		
6	Is the surrounding area free of loose debris?	7		
7	Photos taken?.	7	Camera ID: 5 Photo #: 666 - 667	

**Additional Notes:** 



### **Snow Stockpile Inspection**

Date: 15-Jan -19
Inspecting Personnel: KN/SJS
Stockpile Location: Dyno Road West

	Condition	Y/N or NA	Item of Concern	Corrective Action
1	Is the stockpile currently in use?. If so, what is the current capacity remaining (% full)	7 25%		=
	Are there any vehicles/heavy equipment in the work area?.	$\mathcal{N}$		
2	Is the stockpile boundary clearly marked?. If so, is the snow being stockpiled within the boundary area?.	7	Recently Staked Effluent Line	
3	Is the snow clear of contamination?. List type of contamination found (coolant, oil, fuel, sewage)	7		
4	Are the natural drainage patterns of the area still intact?	7		
5	Is there any refuse within the snow being stockpiled? (I.e. garbage, loose material, etc.)	Y	Pieces of Wood + (672) Small Plastics	
6	Is the surrounding area free of loose debris?	Ν,	TelePallet on Side of Rd.	# 676
7	Photos taken?.	,	Camera ID: 5 Photo #: 670 —	675

Additional Notes:

Date: Feb 3 | 19 Inspecting Personnel: S55



		Dyno Rd Sn	ow Stockpile East		Dyno Rd Snow Stockpile West					
Yes	No	Cam/Photo #	Comment	Yes	No	Cam/Photo#	Comment			
	X	5/716		X		5/772- 775				
	×				X					
X				X						
	×		If Yes: type of contamination found?		Χ		If Yes: type of contamination found?			
X				X						
	×		0.0		×					
	×	× × ×	Yes No Cam/Photo#  X 5/716  X  X  X  X	X       5/716         X       If Yes: type of contamination found?         X       X	Yes         No         Cam/Photo #         Comment         Yes           X         5/716         X           X         X         X           X         If Yes: type of contamination found?         X           X         X         X	Yes         No         Cam/Photo #         Comment         Yes         No           X         5 / 716         X         X           X         X         X         X           X         If Yes: type of contamination found?         X           X         X         X	Yes         No         Cam/Photo #         Comment         Yes         No         Cam/Photo #           X         5/712-715         X         5/712-715           X         X         X         X           X         If Yes: type of contamination found?         X         X           X         X         X         X			

Date: Feb 3 | 19 Inspecting Personnel: S55



		Dyno Rd Sn	ow Stockpile East		Dyno Rd Snow Stockpile West					
Yes	No	Cam/Photo #	Comment	Yes	No	Cam/Photo#	Comment			
	X	5/716		X		5/772- 775				
	×				X					
X				X						
	×		If Yes: type of contamination found?		Χ		If Yes: type of contamination found?			
X				X						
	×		0.0		×					
	×	× × ×	Yes No Cam/Photo#  X 5/716  X  X  X  X	X       5/716         X       If Yes: type of contamination found?         X       X	Yes         No         Cam/Photo #         Comment         Yes           X         5/716         X           X         X         X           X         If Yes: type of contamination found?         X           X         X         X	Yes         No         Cam/Photo #         Comment         Yes         No           X         5 / 716         X         X           X         X         X         X           X         If Yes: type of contamination found?         X           X         X         X	Yes         No         Cam/Photo #         Comment         Yes         No         Cam/Photo #           X         5/712-715         X         5/712-715           X         X         X         X           X         If Yes: type of contamination found?         X         X           X         X         X         X			

Date: 03-Mar-19
Inspecting Personnel: SJS/KN



			Dyno Rd Sn	ow Stockpile East			Dyno Rd Sno	ow Stockpile West
Condition	Yes	No	Cam/Photo #	Comment	Yes	No	Cam/Photo#	Comment
Is the stockpile currently in use?. If so, what is the current capacity remaining (% full)		X		NotinUse	X		高级	50%
Are there any vehicles/heavy equipment in the work area?.		X				X		
Is the stockpile boundary clearly marked?. If so, is the snow being stockpiled within the boundary area?.	√.				×			
Does snow/ice contain conaminants such as hydrocarbons or other fluids, are any spill present?				If Yes: type of contamination found?		×		If Yes: type of contamination found?
Are the natural drainage patterns of the area still intact?					×			
Is there any other refuse within the snow being stockpiled? (I.e. garbage, loose material, etc.)				_	×	-	10/26-31	-Wood, insulation Scraps -Liner
Is the surrounding area free of loose debris?					X		80	
Additional Notes:	lan	n IC	/32			<del>-</del>		

Date: 03-Mar-19
Inspecting Personnel: SJS/KN



			Dyno Rd Sn	ow Stockpile East			Dyno Rd Sno	ow Stockpile West
Condition	Yes	No	Cam/Photo #	Comment	Yes	No	Cam/Photo#	Comment
Is the stockpile currently in use?. If so, what is the current capacity remaining (% full)		X		NotinUse	X		高级	50%
Are there any vehicles/heavy equipment in the work area?.		X				X		
Is the stockpile boundary clearly marked?. If so, is the snow being stockpiled within the boundary area?.	√.				×			
Does snow/ice contain conaminants such as hydrocarbons or other fluids, are any spill present?				If Yes: type of contamination found?		×		If Yes: type of contamination found?
Are the natural drainage patterns of the area still intact?					×			
Is there any other refuse within the snow being stockpiled? (I.e. garbage, loose material, etc.)				_	×	-	10/26-31	-Wood, insulation Scraps -Liner
Is the surrounding area free of loose debris?					X		80	
Additional Notes:	lan	n IC	/32			<del>-</del>		

Date: 12 - May - 19 Inspecting Personnel: CP/RH/TM



			Dyno Road	Snow Stockpile East			Dyno Road Si	now Stockpile West	
Condition	Yes	No	Cam/Photo #	Comment	Yes	No	Cam/Photo #	Comment	
Is the stockpile currently in use?. If so, what is the current capacity remaining (%)	5	Х				×		was not used	
Are there any vehicles/heavy equipment in the work area?.		X				X			
Is the stockpile boundary clearly marked?. If so, is the snow being stockpiled within the boundary area?.	X				X			- Some delineators Rell down	
Does snow/ice contain contaminants such as hydrocarbons or other fluids present?		X		If Yes: type of contamination found?		X		If Yes: type of contamination found?	
Are the natural drainage patterns of the area still ntact?	X			-melt Water not Causing any issues	X				
s there any other refuse within the snow being stockpiled? (I.e. garbage, oose material, etc.)	X			Causing any issues - Wooden debris around pile		X			
s the surrounding area free of loose debris?	X	1			X				
Additional Notes:	rot	05	: 054-01	51			Photo: C	169-070	

Date: 16- May - 2019 Inspecting Personnel: BM/BR/VPH



	100		Dyno Road	Snow Stockpile East			Dyno Road S	now Stockpile West
Condition	Yes	No	Cam/Photo #	Comment	Yes	No	Cam/Photo #	Comment
Is the stockpile currently in use?. If so, what is the current capacity remaining (%)		*	Field	residual snaw		*		residual snow
Are there any vehicles/heavy equipment in the work area?.	#	*	-			*		
Is the stockpile boundary clearly marked?. If so, is the snow being stockpiled within the boundary area?.		1		no markers seen		X		
Does snow/ice contain contaminants such as hydrocarbons or other fluids present?		*		If Yes: type of contamination found?		A		If Yes: type of contamination found?
are the natural drainage patterns of the area still ntact?	X		1		*			7 17
there any other refuse vithin the snow being cockpiled? (I.e. garbage, cose material, etc.)	+	100	3/			*		
the surrounding area free loose debris?	1		4		. 4			
dditional Notes: 3   345 Significant	51	100	cover	3776		13	347	

Inspecting Personnel: JH / JRS

Mary River

Dyno Road Snow Stockpiles (East/West)

\* MS-SN-02

**T**Baffinland

**Dyno Road Snow Stockpile East Dyno Road Snow Stockpile West** Yes No Cam/Photo # Condition Comment Yes No Cam/Photo# Comment Is the stockpile currently in use?. If so, what is the current capacity remaining (%) Are there any vehicles/heavy equipment in the work area?. Is the stockpile boundary clearly marked?. If so, is the X snow being stockpiled within the boundary area?. If Yes: type of contamination If Yes: type of contamination found? Does snow/ice contain found? contaminants such as hydrocarbons or other fluids present? Are the natural drainage patterns of the area still intact? Is there any other refuse within the snow being Y stockpiled? (I.e. garbage, loose material, etc.) Is the surrounding area free of loose debris? Additional Notes: arma

Date: 3/2019 Inspecting Personnel: N#/SRS

Mary River

\* MS-SN-02

			Dyno Ro	ad Snow Sto	ockpile East	Dyno Road Snow Stockpile West				
Condition	Yes	No	Cam/Photo	#	Comment	Yes	No			
Is the stockpile currently in use?. If so, what is the current capacity remaining (%)	X						NO	Cam/Photo #	Comment	
Are there any vehicles/heavy equipment in the work area?.		X					-			
s the stockpile boundary learly marked?. If so, is the now being stockpiled within he boundary area?.		X								
oes snow/ice contain ontaminants such as ydrocarbons or other fluids resent?		P	·	If Yes: type found?	of contamination				If Yes: type of contamination found?	
re the natural drainage atterns of the area still cact?	P						+	-		
there any other refuse thin the snow being ockpiled? (I.e. garbage, use material, etc.)		Y								
he surrounding area free oose debris?	Q									

Date: 11-JUN-19 Inspecting Personnel: BM | JBB



			Dyno Road S	Snow Stockpile East			Dyno Road Sr	now Stockpile West
Condition	Yes	No	Cam/Photo #	Comment	Yes	No	Cam/Photo #	Comment
Is the stockpile currently in use?. If so, what is the current capacity remaining (%)	/							
Are there any vehicles/heavy equipment in the work area?.						/		
is the stockpile boundary clearly marked?. If so, is the snow being stockpiled within the boundary area?.		_				/		
Does snow/ice contain contaminants such as hydrocarbons or other fluids present?		/		If Yes: type of contamination found?		/		If Yes: type of contamination found
Are the natural drainage patterns of the area still intact?	/				/			
Is there any other refuse within the snow being stockpiled? (I.e. garbage, loose material, etc.)		1	/		/		1.74	some losse material
Is the surrounding area free of loose debris?	1				/			
Additional Notes:	36	2-3	0			14/3	371-373	

Date: 18 JUN 19

Inspecting Personnel: BM/JB/BC



			Dyno Road S	now Stockpile East		Dyno Road Snow Stockpile West					
Condition	Yes	No	Cam/Photo #	Comment	Yes	No	Cam/Photo#	Comment			
s the stockpile currently in use?. If so, what is the current capacity remaining %)	/	/		60	/			50			
Are there any vehicles/heavy equipment in the work area?.		/				/					
Is the stockpile boundary clearly marked?. If so, is the snow being stockpiled within the boundary area?.		1	y=	not clearly nurked		/		not clearly merked			
Does snow/ice contain contaminants such as hydrocarbons or other fluids present?		/		If Yes: type of contamination found?		/		If Yes: type of contamination found			
Are the natural drainage patterns of the area still intact?	/				/						
Is there any other refuse within the snow being stockpiled? (I.e. garbage, loose material, etc.)		/			/		11-353				
Is the surrounding area free of loose debris?	1				/						



### **Snow Stockpile Inspection**

Date: |5-Jan-19 Inspecting Personnel: 955 | KN

Stockpile Location: Landfill Overflow

	Condition	Y/N or NA	Item of Concern	<b>Corrective Action</b>
1	Is the stockpile currently in use?. If so, what is the current capacity remaining (% full)	N		
19 (V H	Are there any vehicles/heavy equipment in the work area?.	$\wedge$		
2	Is the stockpile boundary clearly marked?. If so, is the snow being stockpiled within the boundary area?.	7		
3	Is the snow clear of contamination?. List type of contamination found (coolant, oil, fuel, sewage)	7		
4	Are the natural drainage patterns of the area still intact?	7		
5	Is there any refuse within the snow being stockpiled? (I.e. garbage, loose material, etc.)	N		
6	Is the surrounding area free of loose debris?	7		
7	Photos taken?.	Ca	amera ID: 5 Photo #: 681/682	

**Additional Notes:** 

Date: Feb 1<sup>3+</sup>/19
Inspecting Personnel: SJS

# Mary River Landfill Overflow Snow Stockpile



Condition	Yes	No	Cam/Photo #	Comment
Is the stockpile currently in use?. If so, what is the current capacity remaining (% full)		X	Cam 1/0743/	
Are there any vehicles/heavy equipment in the work area?.		/		€
Is the stockpile boundary clearly marked/snow stockpiled within boudary?	/			
Does snow contain conaminants such as hydrocarbons or other fluids?		/		If Yes: type of contamination found?
Are the natural drainage patterns of the area still intact?	/			
Is there any refuse within the snow being stockpiled? (I.e. plastic, wood, etc.)		/		
Additional Notes:				A S

Date: Inspecting Personnel:

### Mary River Landfill Overflow Snow Stockpile



Condition	Yes	No	Cam/Photo #	Comment
Is the stockpile currently in use?. If so, what is the current capacity remaining (% full)		X		NOTIN USE
Are there any vehicles/heavy equipment in the work area?.	:	X		
Is the stockpile boundary clearly marked?. If so, is the snow being stockpiled within the boundary area?.	X			
Does snow/ice contain conaminants such as hydrocarbons or other fluids, are any spill present?				If Yes: type of contamination found?
Are the natural drainage patterns of the area still intact?				
Is there any other refuse within the snow being stockpiled? (I.e. garbage, loose material, etc.)				
Is the surrounding area free of loose debris?				
Additional Notes:	10	124	1-25	

Date: 12-May-19 Inspecting Personnel: CP, TM, RH

# Mary River Landfill Overflow Snow Stockpile



Condition	Yes	No	Cam/Photo #	Comment
Is the stockpile currently in use?. If so, what is the current capacity remaining (%)	S	X	16/062	Stockpile was not used this season
Are there any vehicles/heavy equipment in the work area?.		X		
Is the stockpile boundary clearly marked?. If so, is the snow being stockpiled within the boundary area?.	X		Reported	Removed fallen down delineators
Does snow/ice contain contaminants such as hydrocarbons or other fluids present?		X		If Yes: type of contamination found?
Are the natural drainage patterns of he area still intact?	X			
s there any other refuse within the now being stockpiled? (I.e. garbage, pose material, etc.)	-	X	-	
the surrounding area free of loose ebris?	X			

Date: 11-JUN-19 Inspecting Personnel: BM/JBB

#### <u>Mary River</u> <u>Landfill Overflow Snow Stockpile</u>



Condition	Yes	No	Cam/Photo #	Comment
Is the stockpile currently in use?. If so, what is the current capacity remaining (%)		/		
Are there any vehicles/heavy equipment in the work area?.		/		
Is the stockpile boundary clearly marked?. If so, is the snow being stockpiled within the boundary area?.	/			
Does snow/ice contain contaminants such as hydrocarbons or other fluids present?		/		If Yes: type of contamination found?
Are the natural drainage patterns of the area still intact?	/		la la la	
s there any other refuse within the snow being stockpiled? (I.e. garbage, oose material, etc.)		/		
s the surrounding area free of loose debris?	/			
Additional Notes:	1			



### **Snow Stockpile Inspection**

Inspecting Personnel: KN/SJS
Stockpile Location: Weather Haven

	Condition	Y/N or NA	Item of Concern	Corrective Action
1	Is the stockpile currently in use?. If so, what is the current capacity remaining (% full)	30%		
	Are there any vehicles/heavy equipment in the work area?.	2		
2	Is the stockpile boundary clearly marked?. If so, is the snow being stockpiled within the boundary area?.	7		
3	Is the snow clear of contamination?. List type of contamination found (coolant, oil, fuel, sewage)	7		
4	Are the natural drainage patterns of the area still intact?	7		14 393
5	Is there any refuse within the snow being stockpiled? (I.e. garbage, loose material, etc.)	7	Small Pebris (wood/Plastic) Minimal	
6	Is the surrounding area free of loose debris?	7		
7	Photos taken?.	7	Camera ID: 5 Photo #: 539 / 54	0

Additional Notes:

Date: Feb 2/19
Inspecting Personnel: SJS

### Mary River Weatherhaven/Warehouse Snow Stockpiles



			Weatherhav	en Snow Stockpile	Warehouse Snow Stockpile				
Condition	Yes	No	Cam/Photo#	Comment	Yes	No	Cam/Photo #	Comment	
Is the stockpile currently in use?. If so, what is the current capacity remaining (% full)	X		5/767-7 <b>60</b> 40%			X		NOT IN USE	
Are there any vehicles/heavy equipment in the work area?.		X				X			
Is the stockpile boundary clearly marked/snow stockpiled within boudary?					X				
Does snow contain conaminants such as hydrocarbons or other fluids?		×		If Yes: type of contamination found?		X		If Yes: type of contamination found?	
Are the natural drainage patterns of the area still intact?	×				X		F) 8		
Is there any refuse within the snow being stockpiled? (I.e. plastic, wood, etc.)		X				X			

Date: 03-Mar-19
Inspecting Personnel: S55/KN

### Mary River Weatherhaven/Warehouse Snow Stockpiles



			Weatherhav	en Snow Stockpile			Warehouse	e Snow Stockpile
Condition	Yes	No	Cam/Photo #	Comment	Yes	No	Cam/Photo #	Comment
Is the stockpile currently in use?. If so, what is the current capacity remaining (% full)	X			to Full		×	10/93	NOT IN USE
Are there any vehicles/heavy equipment in the work area?.		X				×		
Is the stockpile boundary clearly marked?. If so, is the snow being stockpiled within the boundary area?.	X				×			
Does snow/ice contain conaminants such as hydrocarbons or other fluids, are any spill present?		X		If Yes: type of contamination found?		×		If Yes: type of contamination found?
Are the natural drainage patterns of the area still intact?	×				×		40 90	
Is there any other refuse within the snow being stockpiled? (I.e. garbage, loose material, etc.)	×		Cam 10 54-60	Wood of Conbloard		×		
Is the surrounding area free of loose debris?	X				×			
Additional Notes:								

Date: 12-May-19 RH/TM
Inspecting Personnel: CP/RH/TM

### <u>Mary River</u> <u>Weatherhaven/Warehouse Snow Stockpiles</u>



			Weatherhav	en Snow Stockpile			Warehous	se Snow Stockpile
Condition	Yes	No	Cam/Photo#	Comment	Yes	No	Cam/Photo #	Comment
Is the stockpile currently in use?. If so, what is the current capacity remaining (%)		X		Snow is melting, no additions		×		
Are there any vehicles/heavy equipment in the work area?.		X				X		
Is the stockpile boundary clearly marked?. If so, is the snow being stockpiled within the boundary area?.	×				X			
Does snow/ice contain contaminants such as hydrocarbons or other fluids present?		X		If Yes: type of contamination found?		X		If Yes: type of contamination found?
Are the natural drainage patterns of the area still intact?	X		049		X			
s there any other refuse within the snow being stockpiled? (I.e. garbage, oose material, etc.)	X		16/050-052			X		
s the surrounding area free of loose debris?	X				X	1		
Additional Notes:	S:		049 - 0	)53		Sto	CKPile	Was never used

Pics: 69 - 70

Date: 26-May-19 Inspecting Personnel: WPW/AB

Mary River Weatherhaven/Warehouse Snow Stockpiles



Condition			Weather	Weatherhaven/Warehounaven Snow Stockpile					Baffinlan
	Yes	No	Cam/Photo					Warehouse :	Snow Stockpile
Is the stockpile currently in use?. If so, what is the current capacity remaining (%)		X		Comment	,	/es	No	Cam/Photo #	Comment
Are there any vehicles/heavy equipment in the work area?.		X					X		
s the stockpile boundary learly marked?. If so, is the now being stockpiled within be boundary area?.	<				×				
ntaminants such as drocarbons or other fluids sent?	X			If Yes: type of contamination found?		\ \ \	<	Ify	es: type of contamination found
ct?					×				
n the snow being piled? (I.e. garbage, material, etc.)			6.	skids/ word refuse	X				
surrounding area free se debris?	X					X			
Caupra =	+ 10		N.	# 540 - 542					

Date: 11-JUN-19

Inspecting Personnel: BM / 188

#### <u>Mary River</u> <u>Weatherhaven/Warehouse Snow Stockpiles</u>



			Weatherhav	ven Snow Stockpile			Warehous	se Snow Stockpile
Condition	Yes	No	Cam/Photo #	Comment	Yes	No	Cam/Photo #	Comment
Is the stockpile currently in use?. If so, what is the current capacity remaining (%)	/			Signif amount remaining ~20°10				
Are there any vehicles/heavy equipment in the work area?.			^					
Is the stockpile boundary clearly marked?. If so, is the snow being stockpiled within the boundary area?.		/			/			
Does snow/ice contain contaminants such as hydrocarbons or other fluids present?			•	If Yes: type of contamination found?		/		If Yes: type of contamination found?
Are the natural drainage patterns of the area still ntact?								
s there any other refuse within the snow being stockpiled? (I.e. garbage, oose material, etc.)						/		
s the surrounding area free of loose debris?	/				/			
Additional Notes:	+				HAS	101	BEEN IN USE,	COOD CONDITION

Date: 19 JUN19
Inspecting Personnel: BM/BC

### **Mary River** Weatherhaven/Warehouse Snow Stockpiles



			Weatherhav	en Snow Stockpile			Warehouse	Snow Stockpile
Condition	Yes	No	Cam/Photo#	Comment	Yes	No	Cam/Photo #	Comment
Is the stockpile currently in use?. If so, what is the current capacity remaining (%)	$\checkmark$			~60./.				
Are there any vehicles/heavy equipment in the work area?.		/						
Is the stockpile boundary clearly marked?. If so, is the snow being stockpiled within the boundary area?.		/						
Does snow/ice contain contaminants such as hydrocarbons or other fluids present?		/		If Yes: type of contamination found?				If Yes: type of contamination found?
Are the natural drainage patterns of the area still intact?	/							
Is there any other refuse within the snow being stockpiled? (I.e. garbage, loose material, etc.)		/				/		
Is the surrounding area free of loose debris?	/							



Tote Road Snow Stockpile Inspections 2019



### **Snow Management Inspection Form**

Date: 25-May -19
Inspecting Personnel: SJS, LC, TM, JBB
Stockpile Location: KM 37.5

	Condition	Y/N or NA	Item of Concern	Corrective Action
1	Is the stockpile currently in use?. If so, what is the current capacity remaining (% full)	Y	107. FUI	
2	Are there any vehicles/heavy equipment in the work area?.	N		
3	Is the stockpile boundary clearly marked? If so, is the snow being stockpiled within the boundary area?.	N		
4	Is the snow clear of contamination?. List type of contamination found (coolant, oil, fuel, sewage)	7		
5	Are the natural drainage patterns of the area still intact?	4		
6	Is there any refuse within the snow being stockpiled? (I.e. garbage, loose material, etc.)	Y	Wood, delineators, plastic	7
7	Is the surrounding area free of loose debris?	ÿ		
8	Photos taken?	y	Camera ID: / 7 Photo #: 404-412	

Additional Notes:



Inspecting Personnel: SB / JK / VRH Stockpile Location: TR - SN - O (

	Condition	Y/N or NA	Item of Concern	Corrective Action
1	Is the stockpile currently in use?. If so, are there any vehiclues/heavy equipment in the work area.	1)		
2	Is the stockpile boundary clearly marked? If so, is the snow being stockpiled within the boundary area?.	N		
3	Is the snow clear of contamination?. If so, are there any fuel stains or visible spills?	N/A		
4	Are the natural drainage patterns of the area still intact?	N/A		
	Is there sediment-laden water flowing from the stockpile area?	N/a		
5	Is there any other refuse within the snow being stockpiled? (I.e. garbage, loose material, etc.)	N/A		
6	Is the surrounding area free of loose debris?	N/A		
7	Photos taken?.	NO	Photo #:	

Additional Notes:

- WE COOLD MOT IDENTIFY WITH ANY CONFIDENCE THE COCATION. O TR-SN-01 DUE TO COMPLETE LACK of SNOW.



Inspecting Personnel: JBB / BC
Stockpile Location: Te-SN-U

	Condition	Y/N or NA	Item of Concern	Corrective Action
1	Is the stockpile currently in use?. If so, are there any vehiclues/heavy equipment in the work area.	485	No equipment in use	
2	Is the stockpile boundary clearly marked?. If so, is the snow being stockpiled within the boundary area?.	20	No boundry.	Marin and a second
3	Is the snow clear of contamination?. If so, are there any fuel stains or visible spills?	Yes	No visible Spills.	
4	Are the natural drainage patterns of the area still intact?	NA		
	Is there sediment-laden water flowing from the stockpile area?	ALA	No visible runoff.	
5	Is there any other refuse within the snow being stockpiled? (I.e. garbage, loose material, etc.)	70		
6	Is the surrounding area free of loose debris?	405		
7	Photos taken?.	VC>	Photo #: 13/969-914.	

Additional Notes:

Less than 5% of pile remaining.



Date: 1-JUNE-19
Inspecting Personnel: JBB, JK, VPH Stockpile Location: TR-SN-02

	Condition	Y/N or NA	Item of Concern	Corrective Action
1	Is the stockpile currently in use?. If so, are there any vehiclues/heavy equipment in the work area.	Y, N		
2	Is the stockpile boundary clearly marked?. If so, is the snow being stockpiled within the boundary area?.	N		
3	Is the snow clear of contamination?. If so, are there any fuel stains or visible spills?	7, N		
4	Are the natural drainage patterns of the area still intact?	Y		
	Is there sediment-laden water flowing from the stockpile area?	N		
5	Is there any other refuse within the snow being stockpiled? (I.e. garbage, loose material, etc.)	2		
6	Is the surrounding area free of loose debris?	Y		
7	Photos taken?.	Photo	#: 17/ 1026 -	1029

Additional Notes:

### Baffinland

#### **Snow Stockpile Inspection**

Date: 9- JUN - 19

Inspecting Personnel: JBB/ BC

Stockpile Location: TR - SN - 02

	Condition	Y/N or NA	Item of Concern	Corrective Action
1	Is the stockpile currently in use?. If so, are there any vehiclues/heavy equipment in the work area.	Y	Loss Than IY, Remains	
2	Is the stockpile boundary clearly marked?. If so, is the snow being stockpiled within the boundary area?.	در		
3	Is the snow clear of contamination?. If so, are there any fuel stains or visible spills?	Y	Nove	
4	Are the natural drainage patterns of the area still intact?	N/A	No Dransont Under	
	Is there sediment-laden water flowing from the stockpile area?	N	NO Francia UNTOR	
5	Is there any other refuse within the snow being stockpiled? (I.e. garbage, loose material, etc.)	N	Nort	
6	Is the surrounding area free of loose debris?	4	None	
7	Photos taken?.	4	Photo #: 915-919 Campana	13

- Saver Travair from River was restored Som Barrer Som



Date:

1-JUNE -19

Inspecting Personnel:

JBB, JK, VPH

Stockpile Location:

TR-5N-03

	Condition	Y/N or NA	Item of Concern	Corrective Action
1	Is the stockpile currently in use?. If so, are there any vehiclues/heavy equipment in the work area.	4, N		
2	Is the stockpile boundary clearly marked?. If so, is the snow being stockpiled within the boundary area?.	P		
3	Is the snow clear of contamination?. If so, are there any fuel stains or visible spills?	N		
4	Are the natural drainage patterns of the area still intact?			
	Is there sediment-laden water flowing from the stockpile area?	2		
5	Is there any other refuse within the snow being stockpiled? (I.e. garbage, loose material, etc.)	7	small amounts of plastic	
6	Is the surrounding area free of loose debris?			
7	Photos taken?.	/	Photo #: 17/1013 - 1025	

Additional Notes:

stream of water running overtop

Previous sample location now stagment, did not sample

Baffinland Date: 2019

Inspecting Personnel:

	Condition	Y/N or NA	Item of Concern	Corrective Action
1	Is the stockpile currently in use?. If so, are there any vehiclues/heavy equipment in the work area.	4	None	
2	Is the stockpile boundary clearly marked?. If so, is the snow being stockpiled within the boundary area?.	7	Nove	
3	Is the snow clear of contamination?. If so, are there any fuel stains or visible spills?	7	Mont	
4	Are the natural drainage patterns of the area still intact?	Y	Nort	
	Is there sediment-laden water flowing from the stockpile area?	N		
5	Is there any other refuse within the snow being stockpiled? (I.e. garbage, loose material, etc.)	N		
6	Is the surrounding area free of loose debris?	4		
7	Photos taken?.	7	Photo #: 920 - 934	

**Additional Notes:** 

-CU-033 IN GRS1 is Nowaer in use or visible As seen in photos 920-923.



Date: 1- JUNE-19

Inspecting Personnel: JBB, VPH, JK

Stockpile Location: TR-SN-04

	Condition	Y/N or NA	Item of Concern	Corrective Action
1	Is the stockpile currently in use?. If so, are there any vehiclues/heavy equipment in the work area.	Y, N		•
2	Is the stockpile boundary clearly marked?. If so, is the snow being stockpiled within the boundary area?.	N		
3	Is the snow clear of contamination?. If so, are there any fuel stains or visible spills?	Y		
4	Are the natural drainage patterns of the area still intact?	7		
	Is there sediment-laden water flowing from the stockpile area?	2		
5	Is there any other refuse within the snow being stockpiled? (I.e. garbage, loose material, etc.)	7	some plastic road markers	
6	Is the surrounding area free of loose debris?	4		
7	Photos taken?.		Photo#: 1003 - 1012	

Additional Notes:

Water running off snow stockpill
about 1 cm deep. Ice covered channels
about 250 m downstream of snow pile



Date: 9-JUN -19 Inspecting Personnel: BC JBB

Stockpile Location: TR - SN - 04

	Condition	Y/N or NA	Item of Concern	Corrective Action
1	Is the stockpile currently in use?. If so, are there any vehiclues/heavy equipment in the work area.	Yes	No equipment present	
2	Is the stockpile boundary clearly marked?. If so, is the snow being stockpiled within the boundary area?.	70		
3	Is the snow clear of contamination?. If so, are there any fuel stains or visible spills?	110		
4	Are the natural drainage patterns of the area still intact?	AlA		
	Is there sediment-laden water flowing from the stockpile area?	10	small runoff pool at stockpile	
5	Is there any other refuse within the snow being stockpiled? (I.e. garbage, loose material, etc.)	110		
6	Is the surrounding area free of loose debris?	yes		
7	Photos taken?.	465	Photo #: 13 936-944.	

Additional Notes: A prox 16% of pile left.

Water to stream located behind is slightly turbed in pieces.



Date: 1- JUNE- 119

Inspecting Personnel: JBB, JK, VPH

Stockpile Location: TR - SN - 05

	Condition	Y/N or NA	Item of Concern	Corrective Action
1	Is the stockpile currently in use?. If so, are there any vehiclues/heavy equipment in the work area.	Y, N		
2	Is the stockpile boundary clearly marked? If so, is the snow being stockpiled within the boundary area?.	N		
3	Is the snow clear of contamination?. If so, are there any fuel stains or visible spills?	Y	Some sheen in surrounding puddles (natural?)	
4	Are the natural drainage patterns of the area still intact?	7		
	Is there sediment-laden water flowing from the stockpile area?	N		
5	Is there any other refuse within the snow being stockpiled? (I.e. garbage, loose material, etc.)	N		
6	Is the surrounding area free of loose debris?	Y		
7	Photos taken?.	/	Photo #: 17 / 996 - 100	Z

**Additional Notes:** 



Inspecting Personnel: BC()BB Stockpile Location: TR-SN-05

	Condition	Y/N or NA	Item of Concern	Corrective Action
1	Is the stockpile currently in use?. If so, are there any vehiclues/heavy equipment in the work area.	7	K5% Late	
2	Is the stockpile boundary clearly marked?. If so, is the snow being stockpiled within the boundary area?.	2		
3	Is the snow clear of contamination?. If so, are there any fuel stains or visible spills?	2		
4	Are the natural drainage patterns of the area still intact?	4		
	Is there sediment-laden water flowing from the stockpile area?	7		
5	Is there any other refuse within the snow being stockpiled? (I.e. garbage, loose material, etc.)	7		
6	Is the surrounding area free of loose debris?	1		
7	Photos taken?.	4	Photo #: 945 - 956/ Cancer	13

**Additional Notes:** 



Date: 1-JUNE - 19

Inspecting Personnel: JBBJK, VPW

Stockpile Location: KM 97 - TR-SN-06

	plic Location.	12-31								
	Condition	Y/N or NA	Item of Concern	Corrective Action						
1	Is the stockpile currently in use?. If so, are there any vehiclues/heavy equipment in the work area.	7 .								
2	Is the stockpile boundary clearly marked?. If so, is the snow being stockpiled within the boundary area?.	7								
3	Is the snow clear of contamination?. If so, are there any fuel stains or visible spills?	+								
4	Are the natural drainage patterns of the area still intact?	Y								
	Is there sediment-laden water flowing from the stockpile area?	7								
5	Is there any other refuse within the snow being stockpiled? (I.e. garbage, loose material, etc.)	2								
6	Is the surrounding area free of loose debris?	Y								
7	Photos taken?.	Photo	#: 17/ g88- c	795						

**Additional Notes:** 

Water flower, about 0.5 cm deep (too shallow to sample)



Date: 9-JUN-19 Inspecting Personnel: BC/J1313

Stockpile Location: TR - SN - OG

	Condition	Y/N or NA	Item of Concern	Corrective Action
1	Is the stockpile currently in use?. If so, are there any vehiclues/heavy equipment in the work area.	yes	Noequipment	
2	Is the stockpile boundary clearly marked?. If so, is the snow being stockpiled within the boundary area?.	110		
3	Is the snow clear of contamination?. If so, are there any fuel stains or visible spills?	yes	no stains	
4	Are the natural drainage patterns of the area still intact?	NA		
	Is there sediment-laden water flowing from the stockpile area?	10		
5	Is there any other refuse within the snow being stockpiled? (I.e. garbage, loose material, etc.)	ИО		
6	Is the surrounding area free of loose debris?	462		
7	Photos taken?.	yes	Photo #:13/957-963	

**Additional Notes:** 



Milne Port Snow Stockpile Inspections 2019

Date: 19/01/05 Inspecting Personnel: 55

#### Milne Port Helipad Snow Stock Piles



	North West Snow Stockpile					South Snow Stockpile				
Condition	Yes	No	Cam/Photo#	Comment	Yes	No	Cam/Photo #	Comment		
Is the stockpile currently in use?. If so, what is the current capacity remaining (% full)	/		44 8362	>1%	/		#4 8359-261	>1%		
Are there any vehicles/heavy equipment in the work area?.		/				1				
Is the stockpile boundary clearly marked/snow stockpiled within boudary?		/		Snow spilling over on to staked worker		/		snow spilling over actor Staked marker.		
Does snow contain conaminants such as hydrocarbons or other fluids?		/		If Yes: type of contamination found?	/			If Yes: type of contamination found		
Are the natural drainage patterns of the area still intact?	/					/				
Is there any refuse within the snow being stockpiled? (I.e. plastic, wood, etc.)		/			/					
ls the surrounding area free of loose debris?	/					/				

Date: 19/03/08 14:55 Inspecting Personnel: 28

## Milne Port Helipad Snow Stock Piles

TBaffinland Km 4 ice SS

			North West Snow Stockpile	!	South Snow Stockpile				
Condition	Yes	No	Comment/Corrective Action	Cam/Photo#	Yes	No	Comment/Corrective Action	Cam/Photo#	
Is the stockpile currently in use?. If so, what is the current capacity remaining (% full)	<b>V</b>		30%	4:8955/56	$\sqrt{}$		36Hs	4: 8970/69	
Are there any vehicles/heavy equipment in the work area?.		/			1		740'S		
Is the stockpile boundary clearly marked/snow stockpiled within boudary?	/				/				
Does snow contain conaminants such as hydrocarbons or other fluids, are any spill present?		/		If Yes: type of contamination found?		/		If Yes: type of contamination found?	
Are the natural drainage patterns of the area still intact?	/				WA	/	intertional	1000	
Is there sediment-laden water flowing from the stockpile area?		/							
Is there any refuse within the snow being stockpiled? (I.e. plastic, wood, etc.)	/	ide	Steel calole mar entrance	48957		/			
Is the surrounding area free of loose debris?	/				$\checkmark$				
Additional Notes:	calo	de	to be removed-	*	No	b	nde brenn - 8971		

Date: 7019 02 73
Inspecting Personnel: 55



		E	Helipad Snow Stockpile		Km4 lce Stockpile					
Condition	Yes	No	Comment/Corrective Action	Cam/Photo#	Yes	No	Comment/Corrective Action	Cam/Photo#		
Is the stockpile currently in use?. If so, what is the current capacity remaining (% full)	X	33	130% full		X					
Are there any vehicles/heavy equipment in the work area?.		X				X				
Is the stockpile boundary clearly marked/snow stockpiled within boudary?	X	40	×		K	:		×		
Does snow/ice contain conaminants such as hydrocarbons or other fluids, are any spill present?		X	If Yes: type of contamination found?			×	If Yes: type of contamination found?			
Are the natural drainage patterns of the area still intact?	X				X			111		
Is there any refuse within the snow/ice being stockpiled? (I.e. plastic, wood, etc.)		X				X				
Is the surrounding area free of loose debris?	X				X					
Additional Notes:	#	2	d 512	<u> </u>				11		

Date: 105/10 Inspecting Personnel:



			Helipad Snow Stockpile		Km4 Ice Stockpile				
Condition	Yes	No	Comment/Corrective Action	Cam/Photo#	Yes	No	Comment/Corrective Action	Cam/Photo#	
Is the stockpile currently in use?. If so, what is the current capacity remaining (%)	/		70% full		V		60% Rul		
Are there any vehicles/heavy equipment in the work area?.		1				/	<i>III</i>		
Is the stockpile boundary clearly marked/snow stockpiled within boudary?	/						<b>3</b>	=	
Does snow/ice contain contaminants such as hydrocarbons or other fluids, are any spill present?	$\int$	it.	If Yes: type of contamination found? \CF \SOIC			<b>√</b>	If Yes: type of contamination found?		
Are the natural drainage patterns of the area still intact?							S V	i T	
Is there any refuse within the snow/ice being stockpiled? (I.e. plastic, wood, etc.)		7	=			$\sqrt{}$			
is the surrounding area free of loose debris?					$\int$		::	1	

Date: 300 Stylol Inspecting Personnel: 55



	Helipad Snow Stockpile 04/03						Km4 Ice Stockpile 64/01				
Condition	Yes	No	Comment/Corrective Action	Cam/Photo#	Yes	No	Comment/Corrective Action	Cam/Photo #			
Is the stockpile currently in use?. If so, what is the current capacity remaining (%)	/		~400 to empty	9-761	/						
Are there any vehicles/heavy equipment in the work area?.		1				1					
Is the stockpile boundary clearly marked/snow stockpiled within boudary?	1				/	R					
Does snow/ice contain contaminants such as hydrocarbons or other fluids, are any spill present?		1	If Yes: type of contamination found?			/	If Yes: type of contamination found?				
Are the natural drainage patterns of the area still intact?	/				/		Berm / Selling prid mot yet complete.				
Is there any refuse within the snow/ice being stockpiled? (I.e. plastic, wood, etc.)		-	modical sadurats			/					
Is the surrounding area free of loose debris?	1				/						
Additional Notes:											

Date: 05-mey-19
Inspecting Personnel: 02/55



			<b>Helipad Snow Stockpile</b>		Km4 Ice Stockpile				
Condition	Yes	No	Comment/Corrective Action	Cam/Photo #	Yes	No	Comment/Corrective Action	Cam/Photo#	
Is the stockpile currently in use?. If so, what is the current capacity remaining (%)	<b>/</b>		40% rem	4-9334-36			15%. vem	4-9331-39	
Are there any vehicles/heavy equipment in the work area?.		<b>/</b>				/			
Is the stockpile boundary clearly marked/snow stockpiled within boudary?	1	_			/				
Does snow/ice contain contaminants such as hydrocarbons or other fluids, are any spill present?		/	If Yes: type of contamination found?				If Yes: type of contamination found?		
Are the natural drainage patterns of the area still intact?	<b>/</b>				<b>/</b>				
Is there any refuse within the snow/ice being stockpiled? (I.e. plastic, wood, etc.)	/	W		9334		<b>✓</b>			
Is the surrounding area free of loose debris?	\X	X			/				

Date: 13- went 19 Inspecting Personnel: PEIR



			Helipad Snow Stockpile		Km4 Ice Stockpile				
Condition	Yes	No	Comment/Corrective Action	Cam/Photo#	Yes	No	Comment/Corrective Action	Cam/Photo#	
Is the stockpile currently in use?. If so, what is the current capacity remaining (%)					/			~	
Are there any vehicles/heavy equipment in the work area?.		/				/	/		
Is the stockpile boundary clearly marked/snow stockpiled within boudary?		-					Barmod.		
Does snow/ice contain contaminants such as hydrocarbons or other fluids, are any spill present?		/	If Yes: type of contamination found?				If Yes: type of contamination found?		
Are the natural drainage patterns of the area still intact?		/	low laying		<b>/</b>	38	w chich dam.		
Is there any refuse within the snow/ice being stockpiled? (I.e. plastic, wood, etc.)		7	with in snow						
Is the surrounding area free of loose debris?									
Additional Notes:			·					'	

Date: 20 may 19 Inspecting Personnel: AK/BC



	Helipad Snow Stockpile						Km4 Ice Stockpile				
Condition	Yes	No	Comment/Corrective Action	Cam/Photo#	Yes	No	Comment/Corrective Action	Cam/Photo #			
Is the stockpile currently in use?. If so, what is the current capacity remaining (%)	/		50% rem.		/		40% rcm.	Α			
Are there any vehicles/heavy equipment in the work area?.		/				/	E.	270			
Is the stockpile boundary clearly marked/snow stockpiled within boudary?	/				1						
Does snow/ice contain contaminants such as hydrocarbons or other fluids, are any spill present?		V	If Yes: type of contamination found?			/	If Yes: type of contamination found?				
Are the natural drainage patterns of the area still intact?					<b>/</b>						
Is there any refuse within the snow/ice being stockpiled? (I.e. plastic, wood, etc.)		/			/		Some misc refuse in metting snow, see pic				
Is the surrounding area free of loose debris?		/				1					
Additional Notes:	phe	otos:	0425 - 0431		p	rotas	: 0264,0268	<u> </u>			

Date: \$705.19 Inspecting Ground:

## Milne <u>1</u> Helipad Snow Stockpile Km4 Ice Stockplie



			Helipad Snow Stockpile		Km4 Ice Stockpile				
Condition	Yes	No	Comment/Corrective Action	Cam/Photo#	Yes	No	Comment/Corrective Action	Cam/Photo#	
Is the stockpile currently in use?. If so, what is the current capacity remaining (%)	/		50% rem		V		20% w		
Are there any vehicles/heavy equipment in the work area?.		V				~			
Is the stockpile boundary clearly marked/snow stockpiled within boudary?	1				~				
Does snow/ice contain contaminants such as hydrocarbons or other fluids, are any spill present?		/	If Yes: type of contamination found?				If Yes: type of contamination found?		
Are the natural drainage patterns of the area still intact?	$\vee$				V				
Is there any refuse within the snow/ice being stockpiled? (I.e. plastic, wood, etc.)	V	X				/			
Is the surrounding area free of loose debris?	/		2		1			145	

# Date: 19 Inspecting rersonnel: AM /AK/LC Helipad Snow Stockpile Km4 Ice Stockplie



Helipad Snow Stockpile						Km4 Ice Stockpile					
Yes	No	Comment/Corrective Action	Cam/Photo#	Yes	No	Comment/Corrective Action	Cam/Photo#				
V		old snow pile from previous winter	CTR Commencer connections the	/		Previous years snow	Env.9 #2134				
	/				~						
	<b>✓</b>	Boundary marters horizontal/in snow pile	Env.q 出 2092		/						
	V	If Yes: type of contamination found?			V	If Yes: type of contamination found?					
<b>/</b>				~							
/					V						
<b>/</b>				V							
			Yes No Comment/Corrective Action  Old Snow give from previous winter  Boundary markers horizontal/in snow pile  If Yes: type of contamination found?  Various loose debris in snow pile	Yes No Comment/Corrective Action Cam/Photo#  Old Snow pile from previous winter  Boundary markers  Novizontal/in snow #2092  If Yes: type of contamination found?  Various loose debris Env. 9  H 2089-91	Yes No Comment/Corrective Action Cam/Photo# Yes  Old Snow pile from previous winter  Boundary markers horizontal/in snow #2092 pile  If Yes: type of contamination found?  Various loose debris Em. 9 #2089-91	Yes No Comment/Corrective Action Cam/Photo # Yes No  Old Snow Rile from previous winter  / Boundary markers horizontal/in snow # 2092 pile  If Yes: type of contamination found?  / Various loose debris Em. 9 H 2089-91	Yes No Comment/Corrective Action  Old Snow Rile from previous winter    Old Snow Rile from previous winter				

Date: 19/01/05 Inspecting Personnel: 55



		Milne Hill (upper) Snow Stock Pile					Milne Hill (lower) Snow Stock Pile					
Condition	Yes	No	Cam/Photo#	Comment	Yes	No	Cam/Photo #	Comment				
Is the stockpile currently in use?. If so, what is the current capacity remaining (% full)		/				/		1000				
Are there any vehicles/heavy equipment in the work area?.												
Is the stockpile boundary clearly marked/snow stockpiled within boudary?												
Does snow contain conaminants such as hydrocarbons or other fluids?				If Yes: type of contamination found?				If Yes: type of contamination found				
Are the natural drainage patterns of the area still intact?						W	/					
Is there any refuse within the snow being stockpiled? (I.e. plastic, wood, etc.)		/										
s the surrounding area free of loose debris?	1				/							

Date: 19/02/08 15:30 Inspecting Personnel: OB

### Milne Hill Snow Stock Piles



		Milne Hill (upper) Snow Stock	Pile	Milne Hill (lower) Snow Stock Pile					
Yes	No	Comment/Corrective Action	Cam/Photo#	Yes	No	Comment/Corrective Action	Cam/Photo#		
	A Property and	16% full							
	/								
	/		8						
			If Yes: type of contamination found?				If Yes: type of contamination found?		
/									
/									
			Yes No Comment/Corrective Action  10% full  10% full  10% full  10% full  10% full	10% full  If Yes: type of contamination found?	Yes No Comment/Corrective Action Cam/Photo # Yes  10% full  If Yes: type of contamination found?	Yes No Comment/Corrective Action Cam/Photo # Yes No  10% full  If Yes: type of contamination found?	Yes No Comment/Corrective Action    10%   full		

Date: 2019/07/23 Inspecting Personnel: 55



			Milne Hill (upper) Snow Stock	pile	Milne Hill (lower) Snow Stockpile					
Condition	Yes	No	Comment/Corrective Action	Cam/Photo#	Yes	No	Comment/Corrective Action	Cam/Photo#		
Is the stockpile currently in use?. If so, what is the current capacity remaining		X				×				
Are there any vehicles/heavy equipment in the work area?.	X		Exceptor present		:	X		ii' ,/,e		
Is the stockpile boundary clearly marked/snow stockpiled within boudary?		×				×		11		
Does snow contain conaminants such as hydrocarbons or other fluids, are any spill present?			If Yes: type of contamination found?		/		If Yes: type of contamination found?			
Are the natural drainage patterns of the area still intact?	X				X		9	10		
Is there any refuse within the snow being stockpiled? (I.e. plastic, wood, etc.)	/	1			/					
Is the surrounding area free of loose debris?	X				X		- ,	i i		
Additional Notes:								×		

Date: 100310 Inspecting Personnel:



			Milne Hill (upper) Snow Stock	pile	Milne Hill (lower) Snow Stockpile				
Condition	Yes	No	Comment/Corrective Action	Cam/Photo#	Yes	No	Comment/Corrective Action	Cam/Photo #	
Is the stockpile currently in use?. If so, what is the current capacity remaining	Eller Source		Nla			N	1		
Are there any vehicles/heavy equipment in the work area?.			Snow				in .		
Is the stockpile boundary clearly marked/snow stockpiled within boudary?			Present				WSC		
Does snow contain contaminants such as hydrocarbons or other fluids, are any spill present?			If Yes: type of contamination found?				If Yes: type of contamination found?		
Are the natural drainage patterns of the area still intact?	<b>V</b>				/	}	× = 1		
Is there any refuse within the snow being stockpiled? (I.e. plastic, wood, etc.)		/				/	8	l l	
Is the surrounding area free of loose debris?	/				/		(E)	c=    ;	

Date: 2011/64/03 Inspecting Personnel: 55



	Milne Hill (upper) Snow Stockpile					Milne Hill (lower) Snow Stockpile				
Condition	Yes	No	Comment/Corrective Action	Cam/Photo#	Yes	No	Comment/Corrective Action	Cam/Photo#		
Is the stockpile currently in use?. If so, what is the current capacity remaining										
Are there any vehicles/heavy equipment in the work area?.		jai								
Is the stockpile boundary clearly marked/snow stockpiled within boudary?			ran L							
Does snow contain contaminants such as hydrocarbons or other fluids, are any spill present?			If Yes: type of contamination found?	~ <	h	//	If Yes: type of contamination found?			
Are the natural drainage patterns of the area still intact?			2	- 1	0					
Is there any refuse within the snow being stockpiled? (I.e. plastic, wood, etc.)										
Is the surrounding area free of loose debris?		20			The same of the sa					
Additional Notes:				1						

Date: 05-mm - 19 Inspecting Personnel: PSUSS



			Milne Hill (upper) Snow Stock	oile	Milne Hill (lower) Snow Stockpile					
Condition	Yes	No	Comment/Corrective Action	Cam/Photo#	Yes	No	Comment/Corrective Action	Cam/Photo#		
Is the stockpile currently in use?. If so, what is the current capacity remaining					<b>✓</b>					
Are there any vehicles/heavy equipment in the work area?.			1//			/				
Is the stockpile boundary clearly marked/snow stockpiled within boudary?			15		/					
Does snow contain contaminants such as hydrocarbons or other fluids, are any spill present?			If Yes: type of contamination found?			<b>V</b>	If Yes: type of contamination found?			
Are the natural drainage patterns of the area still intact?		,				_	Show Covered/frozen			
Is there any refuse within the snow being stockpiled? (I.e. plastic, wood, etc.)	7					√				
Is the surrounding area free of loose debris?	1	2				r ——				

Date: 13-MAY-19
Inspecting Personnel

# Milne Port Milne Hill Snow Stockpiles



es No		THE STATE OF THE S				Milne Hill (lower) Snow Stockpile						
STREET, STREET	Comment/Corrective Action	Cam/Photo#	Yes	No	Comment/Corrective Action	Cam/Photo #						
				<b>/</b>	at capacity							
				/	· · · · · · · · · · · · · · · · · · ·							
	If Yes: type of contamination found?											
			/		To check dam.							
					1.							
					. 4							
		**			If Yes: type of contamination found?	If Yes: type of contamination found?  If Yes: type of contamination found?  We check dam.						

Date: 21 MAY 19
Inspecting Personnel: 8C/AK

# Milne Port Milne Hill Snow Stockpiles



			Milne Hill (upper) Snow Stock	pile			Milne Hill (lower) Snow Stock	oile 
Condition	Yes	No	Comment/Corrective Action	Cam/Photo#	Yes	No	Comment/Corrective Action	Cam/Photo #
Is the stockpile currently in use?. If so, what is the current capacity remaining	Y				/		20%. rem	
Are there any vehicles/heavy equipment in the work area?.			JSe			/		
Is the stockpile boundary clearly marked/snow stockpiled within boudary?		00				1	he norkers	
Does snow contain contaminants such as hydrocarbons or other fluids, are any spill present?			If Yes: type of contamination found?			V	If Yes: type of contamination found?	
Are the natural drainage patterns of the area still intact?				to.	/			
Is there any refuse within the snow being stockpiled? (I.e. plastic, wood, etc.)					×	/		
Is the surrounding area free of loose debris?					/			
Additional Notes:					pi	notos	5: 0381 - 0383	

Date: 255.19
Inspecting ersonnel: BC/AK

# Milne Postockpiles



			Milne Hill (upper) Snow Stock	oile	Milne Hill (lower) Snow Stockpile					
Condition	Yes	No	Comment/Corrective Action	Cam/Photo#	Yes	No	Comment/Corrective Action	Cam/Photo #		
Is the stockpile currently in use?. If so, what is the current capacity remaining	**	V	N/A not in use		/		. (			
Are there any vehicles/heavy equipment in the work area?.		V	_			/				
Is the stockpile boundary clearly marked/snow stockpiled within boudary?		~	no boundary present		\ -	X				
Does snow contain contaminants such as hydrocarbons or other fluids, are any spill present?		V	If Yes: type of contamination found?	2 - = 1		/	If Yes: type of contamination found?			
Are the natural drainage patterns of the area still intact?	<b>V</b>	ε			V		18			
Is there any refuse within the snow being stockpiled? (I.e. plastic, wood, etc.)	/					V	Jane moderals froza in snow			
Is the surrounding area free of loose debris?	/					V				

Date: 1 \ Jule 19
Inspecting Personnel: AM/AK.

# Milne Port Milne Hill Snow Stockpiles



			Milne Hill (upper) Snow Stock	oile	Milne Hill (lower) Snow Stockpile					
Condition	Yes	No	Comment/Corrective Action	Cam/Photo#	Yes	No	Comment/Corrective Action	Cam/Photo #		
Is the stockpile currently in use?. If so, what is the current capacity remaining	<b>V</b>		720%. Flack of available space.		/		Current capacity inknows as markers are not Visible	<b>n</b>		
Are there any vehicles/heavy equipment in the work area?.		/				<b>/</b>				
Is the stockpile boundary clearly marked/snow stockpiled within boudary?	<b>V</b>		Some markers have fallen down.	ENV. 4- #1849		V	no boundary markers/ markers on ground	Env. 4 # 1855-56		
Does snow contain contaminants such as hydrocarbons or other fluids, are any spill present?		-	If Yes: type of contamination found?			<b>~</b>	If Yes: type of contamination found?			
Are the natural drainage patterns of the area still intact?	/				V					
Is there any refuse within the snow being stockpiled? (I.e. plastic, wood, etc.)		<b>V</b>			~		many loose materials			
Is the surrounding area free of loose debris?	√				<b>/</b>	1	Loose debris oney within designated Stockpile area.			

Inspecting rersonnel: AM JAKILC

### Milne t Helipad Snow Stockpile Km4 Ice Stockplie



			Helipad Snow Stockpile		Km4 Ice Stockpile					
Condition	Yes	No	Comment/Corrective Action	Cam/Photo#	Yes	No	Comment/Corrective Action	Cam/Photo#		
Is the stockpile currently in use?. If so, what is the current capacity remaining (%)	V		old snow pile from previous winter	CTR Tammer CT Connection (1984)	/		Previous years snow	Env.9 #2134		
Are there any vehicles/heavy equipment in the work area?.		/				~				
Is the stockpile boundary clearly marked/snow stockpiled within boudary?		<b>~</b>	Boundary marters horizontal/in snow pile	Env.q 丑 2092		/				
Does snow/ice contain contaminants such as hydrocarbons or other fluids, are any spill present?		V	If Yes: type of contamination found?			V	If Yes: type of contamination found?			
Are the natural drainage patterns of the area still intact?	/				J					
Is there any refuse within the snow/ice being stockpiled? (I.e. plastic, wood, etc.)	/		Various loose debris in snow pile	Env. 9 ₩ 2089-91		V				
Is the surrounding area free of loose debris?	<b>/</b>				V					

Date: 03-JUL-2019 Inspecting Personnel: LC/AK

# Milne Port Milne Hill Snow Stockpiles



			Milne Hill (upper) Snow Stocks	Milne Hill (lower)			
Condition	Yes	No	Comment/Corrective Action	Cam/Photo#	Yes	No	Comment/Corre
Is the stockpile currently in use?. If so, what is the current capacity remaining		7				N	
Are there any vehicles/heavy equipment in the work area?.		N				N	
Is the stockpile boundary clearly marked/snow stockpiled within boudary?		N		# 2019		N	
Does snow contain contaminants such as hydrocarbons or other fluids, are any spill present?		Z	If Yes: type of contamination found?			N	If Yes: type of conta found?
Are the natural drainage patterns of the area still intact?	Y				A		
Is there any refuse within the snow being stockpiled? (I.e. plastic, wood, etc.)		N	Minor debnis			N	
Is the surrounding area free of loose debris?	Y				7		

Additional Notes:



### Clean Snow Stockpile / MP-04A **Inspection Checklist**

Date: 19/01/11 17:40 Inspecting Personnel: 22 Camp: MP

	Condition	Y/N or NA	Item of Concern	Responsible Party	Corrective Action
1	Is the snow contained within the defined area?	2	* Not in use yet		
2	Is there visible fuel or oil or other staining present in the snow?	2			
3	Is there any visible refuse present? (i.e. garbage, wood, deliniators, etc.)	2	****		
4	Does the snow contain any iron ore?	2			
5	Are their any animals present in or on the snow?	0			
6	ls the stockpile area full?	2			

**Additional Notes:** 



### Clean Snow Stockpile / MP-04A **Inspection Checklist**

	Condition	Y/N or NA	Item of Concern	Responsible Party	Corrective Action
1	Is the snow contained within the defined area?	Y			
2	Is there visible fuel or oil or other staining present in the snow?	N			
3	Is there any visible refuse present? (i.e. garbage, wood, deliniators, etc.)	N			
4	Does the snow contain any iron ore?	N			
5	Are their any animals present in or on the snow?	N			
6	Is the stockpile area full?	N			

**Additional Notes:** 

Date: MOCOS 15:30 Inspecting Personnel: Wb

# Milne Port - Contaminated Snow Stockpiles MP-04A and Ore Pad Snow Stockpile



		N	MP-04A Contaminated Snow Sto	ckpile	Ore Contaminated Snow Stockpile					
Condition	Yes	No	Comment/Corrective Action	Cam/Photo#	Yes	No	Comment/Corrective Action	Cam/Photo #		
Is the stockpile currently in use?. If so, what is the current capacity remaining (% full)	ELECTION STATE	/			V		5%	4:8967/68		
Are there any vehicles/heavy equipment in the work area?.		/				/				
Is the stockpile boundary clearly marked/snow stockpiled within boudary?	/				V					
Does snow contain conaminants such as hydrocarbons or other fluids, are any spill present?		/		If Yes: type of contamination found?				If Yes: type of contamination found?		
Are the natural drainage patterns of the area still intact?	/				/					
Is there sediment-laden water flowing from the stockpile area?		/				1				
Is there any refuse within the snow being stockpiled? (I.e. plastic, wood, etc.)		/								
Is the surrounding area free of loose debris?	/				/					

Date: 19 005 Inspecting Personnel:55



			Ore Pad	Snow Stockpile			Ore Contami	nated Snow Stockpile
Condition	Yes	No	Cam/Photo#	Comment	Yes	No	Cam/Photo #	Comment
Is the stockpile currently in use?. If so, what is the current capacity remaining (% full)		/				/		
Are there any vehicles/heavy equipment in the work area?.		/				/		
Is the stockpile boundary clearly marked/snow stockpiled within boudary?	N/	A			/			
Does snow contain conaminants such as hydrocarbons or other fluids?		/		If Yes: type of contamination found?		/		If Yes: type of contamination found?
Are the natural drainage patterns of the area still intact?	/				1			
Is there any refuse within the snow being stockpiled? (I.e. plastic, wood, etc.)		/				/		
Additional Notes:								

Milne Port - Contaminated Snow Stockpiles

Date: 1403/10
Inspecting Personnel: PB



			Ore Contaminated Snow Stockpile			
Condition	Yes	No	Comment/Corrective Action		Can	n/Photo#
Is the stockpile currently in use?. If so, what is the current capacity remaining	/				=	
Are there any vehicles/heavy equipment in the work area?.		$\sqrt{}$	***************************************			50 SE III
Is the stockpile boundary clearly marked/snow stockpiled within boudary?	/			•	×	
Does snow contain conaminants such as hydrocarbons or other fluids, are any spill present?		/	If Yes: type of contamination found?	0	W <sup>1</sup>	Л
Are the natural drainage patterns of the area still intact?	1	ű.		30 °		
Is there any refuse within the snow being stockpiled? (I.e. plastic, wood, etc.)		/		==±1		
Is the surrounding area free of loose debris?	/			11	ll 8	2
Additional Notes:	lζ	go (	portain high are content. Broke open a chunk- or	rainly	ove	olust

Date: Zalq/D4/03 Inspecting Personnel: 455

#### Milne Port - Contaminated Snow Stockpiles



	Ore Contaminated Snow Stockpile									
Condition	Yes	No	Comment/Corrective Action	Ca	m/Photo#					
Is the stockpile currently in use?. If so, what is the current capacity remaining	1		240% varindes	9-7.	63-765					
Are there any vehicles/heavy equipment in the work area?.										
Is the stockpile boundary clearly marked/snow stockpiled within boudary?	/									
Does snow contain conaminants such as hydrocarbons or other fluids, are any spill present?		/	If Yes: type of contamination found?							
Are the natural drainage patterns of the area still intact?				- 48	**************************************					
Is there any refuse within the snow being stockpiled? (I.e. plastic, wood, etc.)		/								
Is the surrounding area free of loose debris?	/									
Additional Notes:	=37									

Date: 05 may 19
Inspecting Personnel: \$\int(\s)\/SS



	Ore Laden Snow Stockpile					
Condition	Yes	No	Comment/Corrective Action	Cam/Photo #		
Is the stockpile currently in use?. If so, what is the current capacity remaining	<b>/</b>		25% rem.	4-9330		
Are there any vehicles/heavy equipment in the work area?.		/				
Is the stockpile boundary clearly marked/snow stockpiled within boudary?			current stockple bommery being relocated for MOF road exp.	100		
Does snow contain conaminants such as hydrocarbons or other fluids, are any spill present?		/	If Yes: type of contamination found?			
Are the natural drainage patterns of the area still intact?	1	200				
Is there any refuse within the snow being stockpiled? (I.e. plastic, wood, etc.)		/				
Is the surrounding area free of loose debris?	/					

Date: 12-mm - 19 Inspecting Personnel 35/55



	Ore Laden Snow Stockpile				
Condition	Yes	No	Comment/Corrective Action	Cam/Photo #	
Is the stockpile currently in use?. If so, what is the current capacity remaining	/				
Are there any vehicles/heavy equipment in the work area?.		~			
Is the stockpile boundary clearly marked/snow stockpiled within boudary?	/				
Does snow contain conaminants such as hydrocarbons or other fluids, are any spill present?		/	If Yes: type of contamination found?		
Are the natural drainage patterns of the area still intact?					
Is there any refuse within the snow being stockpiled? (I.e. plastic, wood, etc.)	1	0.70	prenovsky documented	14	
s the surrounding area free of loose debris?					
Additional Notes: Vhotas	<b>ባ</b> ⊌  ት	10-7	2	-	

Date: 21 · 05· 19
Inspecting Personnel: BUAK



Ore Laden Snow Stockpile				
Yes	No	Comment/Corrective Action	Cam/Photo #	
/				
		30/0 30% rem		
/				
	V	If Yes: type of contamination found?		
	/			
	V			
	$\int$			
	/		Yes No Comment/Corrective Action $\sqrt{30/\sqrt{30}}$ $\sqrt{rem}$	

Date: 25-05-19
Inspecting Personnel: BC/AK



	Ore Laden Snow Stockpile					
Condition	Yes	No	Comment/Corrective Action	Cam/Photo #		
Is the stockpile currently in use?. If so, what is the current capacity remaining	V		20% remaining			
Are there any vehicles/heavy equipment in the work area?.		/				
Is the stockpile boundary clearly marked/snow stockpiled within boudary?	/					
Does snow contain conaminants such as hydrocarbons or other fluids, are any spill present?		<b>/</b>	If Yes: type of contamination found?			
Are the natural drainage patterns of the area still intact?	/		Bern enclosed ponded			
Is there any refuse within the snow being stockpiled? (I.e. plastic, wood, etc.)		<b>/</b>				
s the surrounding area free of loose debris?	/			2 24 33,550 1		
Additional Notes:						

Date: 11-Jun-2019
Inspecting Personnel: LC/AM



	Ore Laden Snow Stockpile					
Condition	Yes	No	Comment/Corrective Action	Cam/Photo #		
Is the stockpile currently in use?. If so, what is the current capacity remaining	~		~ 15% capacity remaining	ENV.4- # 1857		
Are there any vehicles/heavy equipment in the work area?.		<b>✓</b>				
Is the stockpile boundary clearly marked/snow stockpiled within boudary?	/					
Does snow contain conaminants such as hydrocarbons or other fluids, are any spill present?		/	If Yes: type of contamination found?			
Are the natural drainage patterns of the area still intact?	V					
Is there any refuse within the snow being stockpiled? (I.e. plastic, wood, etc.)		V				
Is the surrounding area free of loose debris?	<b>✓</b>					

Date: 19 ne 19
Inspecting Personnel: AM/AK/LC





Ore Laden Snow Stockpile					
Yes	No	Comment/Corrective Action	Cam/Photo #		
<b>✓</b>		Previous years' Snow pile.			
	/				
	<b>V</b>	Boundaries are not cleary marked & they are novizontal	Env.9 ± 2095		
		If Yes: type of contamination found?			
/					
	/				
	/		Env.9 #2094		
			Yes No Comment/Corrective Action  When the Previous years' Snow pile.  Boundaries are not cleary marked & they are novizontal  If Yes: type of contamination found?		



August 9, 2019

Chris Spencer, Regulatory Manager Qikiqtani Inuit Association P.O. Box 1340 Igaluit, NU XOA 0H0

RE: Response to QIA July 2019 Site Inspection, Findings and Recommendations

Baffinland Iron Mines Corporation (Baffinland) provides the Qikiqtani Inuit Association (QIA) with the following response to the inspection completed<sup>1</sup> July 16-17, 2019, consistent with the Commercial Lease No. Q13C301.

The attached Table 1 provides Baffinland's responses to the concerns/findings of the QIA inspection, including details where applicable on progress made to date.

Should you have any additional concerns or questions regarding the attached responses, please to not hesitate to contact the undersigned at your convenience.

Regards,

Christopher Murray

**Environmental & Regulatory Compliance Manager** 

Cc: Megan Lord-Hoyle, Lou Kamermans, Tim Sewell, Shawn Stevens, William Bowden, Connor Devereaux, Amanda McKenzie (Baffinland)

#### Attachments:

Attachment 1 – Baffinland Responses to QIA Concerns/Findings

Attachment 2 - Photos

Attachment 3 – Incident Investigation Reports

Attachment 4 - KM 80 Bridge As-Built

<sup>&</sup>lt;sup>1</sup> QIA (2019) Re: Baffinland Iron Mines Corporation's, Mary River Mine – Qikiqtani Inuit Association July 2019 Site Inspection, Findings, and Recommendations. Letter dated July 26, 2019.



**Baffinland Responses to QIA Concerns/Findings** 



Table 1 – Baffinland Responses to QIA Concerns/Findings July 2019 Site Inspection

#	Project Location	Description of Concern or Finding	Recommended Action	Deadline	Response
1	Mine Site pit water leaking from hose (Figure 1)	Observed leaks from four separate locations along an effluent hose transporting mine contact water from the Pit to the Waste Rock Facility.  Baffinland indicated the effluent water to have been recently tested and to be of low pH.  The largest flow appeared to come from a connection of two hoses which was identified by the Inspectors in passing on the way to the Waste Rock Facility. When the Inspectors returned approximately 30 minutes later, the flow at the connection had halted but water had pooled around the connection. Further leaks were identified, including one that continued to spray liquid indicating pressure remained in the hose.	Provide the Baffinland Incident Investigation Report.	August 9, 2019	BIM has provided the Incident Investigation Report (Attachment 3) following observations on July 17, 2019 of the release of in-pit contact water from a hose line transferring into the MS-08 Waste Rock Facility.  All actions taken by Baffinland following observations of the release are in accordance with approved management plans and environmental response procedures. Industry practice and procedures followed are detailed in the Spill Contingency Plan.
2	Outside MP- HWB-01 (Figure 2)	Black discoloration of soil signifying a potential hydrocarbons spill. Baffinland staff confirmed the spill and were actively planning the cleanup while Inspectors were on Site.	Remove contaminated soil to an appropriate storage/treatment facility. Please confirm in writing with photographic evidence.	August 9, 2019	The contaminated soil observed at MP-HWB-01 has been removed. A photo following the site cleanup has been included as Photo 1 in Attachment 2.



#	Project Location	Description of Concern or Finding	Recommended Action	Deadline	Response
3	Road near Landfill (Figure 3)	Site of historic Kalmar crash and spill. Soil remains oily with sheen in surrounding water. Used oil containment boom found in soil.	Remove contaminated soil and waste to an appropriate storage/treatment facility. Please confirm in writing with photographic evidence. Provide the Baffinland Incident Investigation Report. Provide rationale for the delayed response to spill remediation.	August 9, 2019	The contaminated soil and waste has been removed and relocated to the soil treatment facility in accordance with Baffinland's Waste Management Plan.  Photos of the area following the onsite cleanup in addition to the completed Incident Investigation Report are included in Attachment 2 (Photo 2 and 3).  Baffinland does not consider the response to spill remediation to be delayed. Spill cleanup including deployment of spill pads and booms was initiated by site staff at the time of the incident. Cleanup of remaining materials was initiated immediately following the identification of these materials during the inspection.
4	Water Management	As the five days prior to the Inspection included precipitation events, there were noted opportunities for improvement of water management on Site.	Ensure laydowns and Site surfaces are free draining and any sitting water in secondary containment facilities, such as hazardous waste berms and fuel storage areas, are treated, if necessary, and discharged to ensure facilities function as designed. Develop a schedule to address the aforementioned water management concerns.	August 9, 2019	Surface and melt water generated in hazardous waste berms and fuel storage areas are treated during the open water season in accordance with the Fresh Water Supply, Sewage and Wastewater Management Plan. Several factors including timing of the open water season, maintenance of the treatment system and equipment availability are considered when determining the schedule for water treatment onsite.  Following treatment by the oil water separator, the treated effluent may be pH adjusted if required, and resampled to ensure effluent water quality meets the applicable discharge criteria before the effluent is finally discharged to the receiving environment.  Baffinland will continue to optimize the use of the oil water separator system in 2019 to ensure water continues to be properly managed following precipitation events.



#	Project	Description of Concern or Finding	Recommended Action	Deadline	Response
5	General  Milne Inlet	Debris observed throughout site, mainly due to wind and snowmelt. Of note are:  1. KM 85.5 Snow Dump  2. KM 63 bridge on either side of the southern abutments (Figure 12)  3. KM 17 bridge on either side of embankment (Figure 13)  4. Apparent snow dump southeast of Milne Port helipad (Figure 4)  5. Mary River snow dump.  6. Wind strewn debris near landfill where snow was not melted (Figure 24).  7. Wind blown debris south of Sheardown lake observed by helicopter.  Debris indicative of a snow dump was	Baffinland to complete site wide housekeeping and tidying.  Confirm if and when the area	September 30, 2019	Concerns regarding housekeeping are noted. Baffinland continues to improve upon housekeeping and debris management, as demonstrated by the cleanup of historical tire storage, installation of improved landfill fencing, use of seacans as wind breaks to prevent wind-blown debris, and implementation of site-wide cleanup days, among other initiatives. Baffinland has committed to completing extensive site wide housekeeping and tidying during Q3. Areas identified during the inspection (where debris was observed) will be focused on during these efforts.
6	Helipad Apparent Snow Dump (Figure 4)	observed south of the Milne Port Helipad that is not included as a snow dump location in the Snow Management Plan. <sup>2</sup>	indicated was used as a snow dump. If used as a snow dump, indicate when the Snow Management Plan will be updated to reflect the use of this location.	August 9, 2019	Baffinland will be amending the <i>Snow Management Plan</i> by the end of 2019 to include the Milne Inlet Helipad to include a designated snow stockpile area.
7	Waste Rock Facility Waste Water Treatment Plant (Figure 5)	Lime on pad and not in secondary containment. Operator indicated they had just mixed the reagent and had yet to clean up.	Clean spilled reagent and ensure reagent is stored in secondary containment. Please confirm with photographic evidence. Educate operators in clean workplace operations.	August 31, 2019	Photos (Photo 4 and 5) have been provided in Attachment 2 outlining post clean up conditions at the Waste Rock Facility Waste Water Treatment Plant. Baffinland has also committed to further education/meetings with the facility operators to review workplace housekeeping.
8	Deposit 3 Exploratory Drilling (Figure 6)	Multiple observed drill holes not capped with a lack of sedimentation controls for cuttings.	Provide the management plan that allows drill holes to remain uncapped and drill cuttings to be released to the environment. If none exists, ensure drill holes are capped and residual drill cuttings are remediated.	August 9, 2019	Baffinland commits to ensuring drill holes are properly remediated in accordance with the <i>Exploration Closure and Reclamation Plan</i> and residual drill cuttings are remediated following exploration drilling activities. Anchor rods observed above ground will be removed prior to winter.



#	Project	Description of Concern or Finding	Recommended Action	Deadline	Response
	Location				
9	KM 97 historical borrows	Historical borrow held water. Baffinland staff indicated water from the borrow had been used for dust suppression.	Provide the management plan that allows for the use of borrow source water to be used for dust suppression.  If none exists, cease the activity until approved by the relevant regulatory body.	August 9, 2019	Baffinland will continue to remove water collecting in the historical borrow at KM 97 to prevent pooling and potential degradation of the land.  Baffinland will continue to use water for the purpose of dust suppression from only authorized locations outlined in the water license.  In the future, Baffinland may propose to the Nunavut Water Board potential discharge criteria for water to be sourced from historical borrows for dust suppression use.
10	KM 97, KM 80, and KM 17 Bridges (Figure 7)	Observed a stop sign and delineators in the water next to KM 97, KM 80, and KM 17 bridges.	Remove the stop sign and delineators from the watercourse.	September 30, 2019	Baffinland has committed to removing the stop sign and delineators from the watercourse prior to September 30, 2019.
11	KM 92	Stranded turbid waters observed upstream of road.	Ensure sides of roads do not strand water.	August 31, 2019	The Baffinland Road Maintenance Department will further investigate the stranded turbid waters observed upstream of the road at KM 92 to determine if further water management improvements are needed.
12	KM 80 Bridge	As-builts are not readily available.	Provide as-builts for the KM 80 Bridge.	August 9, 2019	As-built drawings for the KM 80 Bridge are contained within the signed and stamped Construction  Summary Report: Tote Road Upgrade Package — Bridge Crossings available on the document registry.  The relevant as-built is extracted and provided for reference in Attachment 4.
13	KM 73 (Figure 8)	Historical borrow sources on both sides of the road. Observed cracking on the roadside, possibly due to permafrost degradation.	Ensure this location is reviewed during the August 2019 Tote Road Geotechnical Inspection.	August 31, 2019	Baffinland will ensure KM 73 is included in the August 2019 Tetra Tech site visit. The entire length of the roadway will be inspected during this time.
14	KM 72.3 (Figure 9)	Borrow sources on both sides of the road. On uphill side, the borrow source appears to be the source of sediment transport through the culvert to the downhill side of the road.	Ensure this location is reviewed during the August 2019 Tote Road Geotechnical Inspection.	August 31, 2019	Baffinland will ensure KM 72.3 is included in the August 2019 Tetra Tech site visit. The entire length of the roadway will be inspected during this time.
15	KM 33 (Figure 10)	Sink hole developed, likely due to culvert failure.	Investigate possible culvert failure. Inform QIA of findings and proposed next steps.	August 9, 2019	Baffinland's Road Maintenance Department inspected and restored the integrity of the culvert. No further issues were identified following the restoration.



#	Project Location	Description of Concern or Finding	Recommended Action	Deadline	Response
16	Water Withdrawal Locations (Figure 11)	Observed multiple open jerry cans at areas along the Tote Road. One jerry can on its side outside of secondary containment.	Inform operators that hazardous substances need to be stored in secondary containment and sealed when not in use to reduce the likelihood of a spill.	August 9, 2019	In an effort to further inform operators of the proper hazardous waste storage procedures, Baffinland will be re-releasing a "Waste Management Guidelines" memo in the upcoming safety memo. This will be distributed to all staff and contractors on site, and further discussed in the morning safety meetings.
17	East side of Ore Stockpile	Lack of berm for water management at the Southeast portion of the Ore Stockpile. Observed ponding of water that may concentrate contaminants without grading to direct to water management structure.	Confirm ditches are consistent with as-built drawings of the Ore Stockpile. Include this area in the bi- annual geotechnical report to ensure the pad and surrounding water management structures are functioning as designed.	August 31, 2019	An inspection of the ditches along the east side of Ore Stockpile will be included in the scope of work for geotechnical inspections taking place on site in Q3.
18	MP-HWB-02 (Figure 14)	Observed the same sea containers observed in 2017 and 2018. Smell of hydrocarbons was confirmed by Baffinland staff to be coming from sea containers within the hazardous waste berm.	Confirm intention and timeline to when the sea containers will be backhauled from Site.	August 31, 2019	Odours may be present from hazardous materials stored within the hazardous waste berms.  Baffinland continues to optimize the removal of hazardous materials from the HWBs. At this time, the Baffinland Environment staff are working alongside the Port and Logistics Department to determine when the sea containers will be removed from site.
19	East side of Ore Stockpile (Figure 15)	Sedimentation event observed that may compromise the Ore Stockpile berm.	Confirm the berm is consistent with the design and as-built documentation for the Ore Stockpile water management structures.	August 31, 2019	The berm has been reinstated in the time following QIA's most recent inspection in July. An assessment of the ditches along the east side of Ore Stockpile is scheduled for the geotechnical inspection taking place on site in Q3.
20	MP-05 Sedimentation Pond	Northwest corner appears to be lower than spillway. This location is a site of a historical spill.	Confirm the height of the Northwest corner is higher than the spillway and is consistent with the design and as-built documentation.	August 31, 2019	Following the construction of pond MP-05a approved by the NWB in Modification No. 9, updated as-built documentation and surveys will be provided for MP-05.
21	MP-HWB-01	Observed rip in liner on the North berm.	Repair liner integrity to ensure secondary containment of hazardous materials.	September 30, 2019	Layfield will be returning to site in Q3 to complete repairs of the MP-HWB-01 liner.
22	Camp Lake Jetty (Figure 20)	Observed cracking in Camp Lake water management structures.	Provide construction and as- built drawings.	August 31, 2019	Baffinland will provide as-built drawings in the 2019 Annual Report for Operations for the Camp Lake water management structures.



#	Project	Description of Concern or Finding	Recommended Action	Deadline	Response
	Location				
23	PWSP 1 (Figure 21)	Multiple rips in liner.	Repair rips and holes to ensure secondary containment of hazardous materials.	September 30, 2019	Layfield will be returning to site in Q3 to complete repairs of the PWSP 1 liner.
24	MS-HWB-7	Water observed to have significant free product requiring treatment. Baffinland staff informed the inspector that the water in HWB-7 requires treating prior to other contaminated water being moved to HWB-7 to be treated.	Provide the plan that allows the operation of MS-HWB-7 as a treatment pond. If none exists, cease the activity until approved by the relevant regulatory body.	August 9, 2019	Baffinland submitted an Options Exercise Notice in November 2016, for the former Mine Site Fuel Bladder Farm (Mine Site Hazardous Waste Berm 7). This was submitted to QIA as Appendix F of the 2017 Work Plan. MS-HWB-7 is not considered or used as a treatment pond. MS-HWB-7 is used exclusively as a hazardous waste berm in accordance with the conditions outlined in the Type A Water License.  MS-HWB-7 is acting as designed, containing water that has come into contact with hazardous materials. Oily water and waste water contained within the hazardous waste berm is managed according to the approved Fresh Water Supply, Sewage, and Wastewater Management Plan, Section 6.2.
25	MS-HWB-07 (Figure 22)	Observed staining on the corner of the liner for MS-HWB-07	Confirm the staining is not of environmental concern.	August 9, 2019	Since the QIA inspection in July 2019, the observed staining on the corner of the liner for MS-HWB-07 has been properly cleaned up. The stained material has been removed and relocated in accordance with Baffinland's Waste Management Plan. Photo 6 demonstrates the post cleanup condition, included in Attachment 2.
26	Washout of effluent line road (Figure 23)	Water flowing through road leading to effluent line.  Appeared that work had been completed since CIRNAC's concern which has since been washed out. Baffinland staff indicated this is an access road and rarely used so the use of water management such as a culvert would require the road being built up to above the grade of the tundra.	Baffinland to consider and report on water management options.	August 31, 2019	Ephemeral ponding of water in this area results in temporary flows of water during high flow periods (freshet, heavy or prolonged precipitation events). The Baffinland Road Maintenance Department has committed to further investigating the access road. During this assessment, the feasibility of installing additional culverts to support the surface water management will be considered.



#	Project Location	Description of Concern or Finding	Recommended Action	Deadline	Response
27	Mine Site Bulk Fuel Facility	Water pooling with observed sheen and smell of hydrocarbons. Baffinland confirmed water has been tested and requires separation and treatment.	Separate and treat water contained within Mine Site Bulk Fuel Facility.	August 31, 2019	Baffinland will be treating and separating the water contained within the Bulk Fuel Facility, consistent with the approved Fresh Water Supply, Sewage and Wastewater Management Plan. Ongoing monitoring and treatment is occurring on site.
28	Mine Site Bulk Fuel Facility	Observed Hazardous Substances in compromised secondary containment.	Ensure Hazardous Substances are stored in secondary containment.	August 31, 2019	As noted by Baffinland staff during the inspection, materials identified were within the lined containment area for the Mine Site Bulk Fuel Storage Facility, and were therefore in secondary containment. As per the Construction Summary Report: Mine Site Tank Farm & Dispensing Package, the refueling module and surrounding area is lined.
29	Crusher Pad Scale	Pooling of water to the North of the crusher pad scale. This had been noted by QIA Auditors in the past. Baffinland confirmed this is a low-lying area prone to ponding.	Grade and recontour the area to be free flowing.	September 30, 2019	Re-contouring and grading of the identified area north of the crusher pad scale is ongoing.
30	Crusher Pad Berm (Figure 26)	Cracking in Crusher Pad Berm. When inquired to the cause of such cracking, Baffinland indicated cracking likely due to personnel walking on the berm.	Baffinland to include the stability of the crusher pad berm in their next geotechnical engineer inspection.	August 31, 2019	Consistent with previous years, the crusher pad water management structures will be examined in the 2019 Geotechnical Inspection taking place in Q3.



**Photos** 



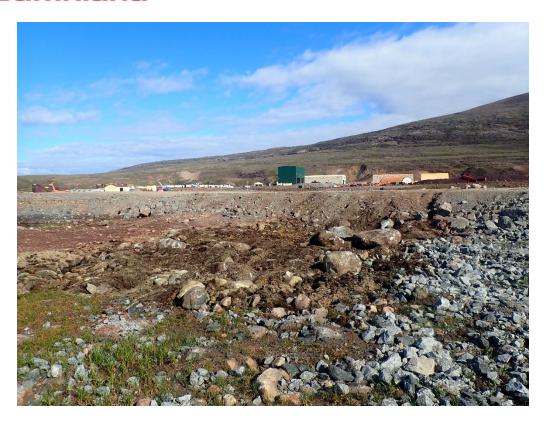


**PHOTO 1** – Spill cleaned up, area outside MP-HWB-01



**PHOTO 2** – Area of Kalamar spill cleanup, following additional remediation





**PHOTO 3** – Area of Kalamar spill cleanup, following additional remediation



**PHOTO 4** – Lime secondary containment at WRF Water Treatment Plant





**PHOTO 5** – Lime placed on secondary containment at WRF Water Treatment Plant



PHOTO 6 – Stained soil at MS-HWB-7 removed





**PHOTO 7** – Cleanup of debris outside the Mine Site area



**Incident Investigation Reports** 



	STEP 1. INITIAL REP	ORT OF THE INC	DENT (Supervisor)					
Date of Event Time of	Event Date Reported	Time Reported	Main Person Involved	d Reported By				
17-Jul-19 8:00a	am 17-Jul-19	3:00pm		Connor Devereaux				
Employer	Contractor (If Applicable)	BIM Dep	partment	Location				
Baffinland		Mine O	perations	Mine Site				
Supervisor	Supervisor Certific	cate # Detailed L	ocation					
Alex Guindon	2015-0624	Waste Du	mp Haul Road					
Health & Safety	Environment	Operations	5	Reputation				
☐ Injury		Prope	rty Damage	Security				
☐ Illness	☐ Wildlife Interaction	☐ Vehic	le Accident	☐ Non-compliance				
	Land disturbance	Fire		☐ Non-conformance				
		Brief Title						
Water leak from dewatering	pipeline.							
	-	Detailed Description						
At approximately 3:00 pm on Wednesday July 17th, four small leaks were discovered on the pit dewatering pipeline going to the waste rock facility. It is estimated that ~90 Liters of water has leaked from the pipeline onto the adjacent tundra. Baffinland has been pumping in-pit water intermittently to the Waste Rock Stockpile Facility beginning July 5, 2019. The hose line operated was verified to be in good working order on July 17, 2019 during morning inspections. However, it was observed in the afternoon of the inspection that four pinhole leaks had been observed. The pumps were turned off upon discovery of the leak and the impacted hoses were replaced. The water that was released was confined to the local tundra surface and was not discharged to any water bodies. In situ monitoring was performed on impacted water on the tundra sourcing from the pinholes on July 17, 2019 and measured at pH 7.14 on the YSI water quality multimeter.								
Imme	diate Actions Taken to Secure	Scene, Protect People	e or Environmental and I	Equipment				
Pumping was immediately s	Pumping was immediately stopped and leaking hoses were replaced.							
	Prelim	inary Cause of the Inc	:ident					
Defective hoses.								
Would you consider this a "ne	ear miss" incident?							
Is this a " <u>Dangerous Occurrer</u>	nce" under Section 16.01 of the	e NWT/Nunavut Mine	Health and Safety Regu	ılations?				
Is this a " <u>Serious Injury</u> " unde	Is this a "Serious Injury" under Section 16.01 of the NWT/Nunavut Mine Health and Safety Regulations?							
Using the Incident Classification Matrix the <b>Actual</b> Consequence of this incident was								

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Hose Wear

### **Incident Report**

Using the Incident Classification Matrix the Reasonable Potential Consequence of this incident was Medium Medium Serious Consequences Minor Major Catastrophic No Injury, Medical Treatment or Restricted **Health and Safety** First Aid Lost Time Injury Fatality Bump & Scrape Work Injury Non-reportable spill, Reportable Spill Reportable Spill Reversible Reportable Spill Reportable Spill **Environment** No impact No impact Impact Long-Term Impact Irreversible Impact **Operations** < \$5K Loss \$5K to \$50K Loss \$50K to \$250K \$250K to \$1000K > \$1000K Community complaint - isolated Low Level community Community dissatisfaction and resolved impact Non-compliance with potential Significant social harm Permanent social harm Reputation Non-compliance with fine or Breach of license License Revocation Potential noncompliance with order issued for fine or order no impact STEP 2. INFORMATION GATHERING (Investigator) Investigator(s) Lead Investigator Ben Emery Others Witnesses Present? ☐ Did the incident warrant a drug & alcohol test? ☐ Photos available of the Incident? **Weather Conditions** Wind Speed & Direction **Temperature Light Conditions** 14 Good General Weather Conditions Overcast skies Spill / Release Spill / Release Details Water slow leak onto the adjacent tundra Substance Spilled Quantity Unit Habitat Tundra **Initiating Event** Method of Cleanup

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		At least one must be select					
Equipmen	t Failure Issues	Procedural Issues	Communic	ation Issues	Engin	eering Issue	
1.1 Defecti Equipm	ve Parts / Tools / nent	3.1 No Procedure	5.1 Shift Cha	inge Impact		olace/Roadway Design / Conditions	
1.2 Design	Issue	3.2 Error in Procedure		Agree on How e Performed		ested Work Area / cted Action	
1.3 Preven Mainte	tative nance Issue	3.3 Procedure too Complex	5.3 Failure to Understand Communication			quate display, signs, alarms, warnings	
1.4 Repeat	Failure	3.4 Procedure not Followed	5.4 Inadequa Commur		7.4 Inadeo Barrie	quate Guards or rs	
1.5 Tolerab	ole Failure		5.5 Cross-De Commur	partment nication Issue	7.5 Noise	/ Vibration / Light	
					☐ Body	Body Mechanics, Placement, oning, Repetitive	
Natural E	lements Issue	Training Issue	Work Dire	ction Issue	Quality Control Issue		
2.1 Tempe	rature Extremes	4.1 No Training	6.1 No Direc	tion Provided	8.1 No Quality Controls		
2.2 Weather Conditions		4.2 Training not Followed, Unintentional	6.2 Inadequate Direction Provided		8.2 Inadequate Quality Controls		
2.3 Ground Earthqu	d Movement / uake	4.3 Trained but Inexperienced	o Follow Work n		Compliance or ation of Controls		
		4.4 Training not followed - Intentional	6.4 Distracti	on		Other	
			6.5 Fatigue		⊠ 9.1 Other	(explain below)	
			6.6 Impairme	ent			
	Cause Explanatio	n (For Each Cause Identified in Ca	asual Analysis - P	rovide a Brief Ex	planation of \	Vhy)	
Code			Explanation				
1.1	Old hoses, friction	over time caused a few small pin h	noles				
9.1	Collapseable hose utilized for the task, any sharp objects(ruts, dried mud or stones) accelerate the wear of the hose.						
		Compati	e Actions:				
			e Actions:				
No.		Description		Issued	То	Due Date	
1.1	·	hoses imediately after discovery of		Remi Pelletier		immediately	
1.1		o and hose inspection frequency. Ir orm a pump and hose inspection of (every 12 hours)		Remi Pel	letier	immediately	
9.1		eliminate as many kinks as possible sharp edges as possible where the		Remi Pel	letier	immediately	
	•						



Investigation Team and Factors Limiting the Investigation (if Any)									
Name Position Signature									
Ben Emery	/	Mine Ops Superintendent	Investigation Accepted 🔀						
Statement of Limiting Fac	Statement of Limiting Factors (if any):  STEP 4: FINAL COMMENTS BY INVESTIGATORS OR MANAGEMENT								
Name		Comment	Date						

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		STEP 1. INITIA	L REPORT OF T	HE INCIDENT (Su	pervisor)			
Date of	Event Time of Ev	vent Date Report	ted Time Report	ed Main Pers	on Involved	Reported By		
23-No	ov-18 09:30	23-Nov-18	10:00	Jonal	n Curley	Jonah Curley		
Employ	er	Contractor (If Applica	ible)	BIM Department		Location		
Baffinla	nd			Surface Works		Mine Site		
Supervi	sor	Supervisor	Certificate # D	etailed Location				
Bruce A	rnold	2013	3-0614	yno Road				
Healt	Health & Safety Environment Operations Reputation							
☐ Injury ☐ Spill/Release ☐ Property Damage ☐ Security								
	] Illness	☐ Wildlife Inte	raction [	✓ Vehicle Accident	□ N	lon-compliance		
		Land disturb	pance [	Fire	□ N	lon-conformance		
	Brief Title							
Kalmar	hit soft shoulder and ro	olled on its side.						
			Detailed Des	cription				
	of road, left front tires hit soft shoulder and Unit was sucked into ditch and rolled on its side.  Immediate Actions Taken to Secure Scene, Protect People or Environmental and Equipment							
Froze tr	e scene and called sup	Dervisor						
			Preliminary Cause	of the Incident				
Soft sho	oulder							
Would y	ou consider this a "nea	ar miss" incident?						
Is this a '	' <u>Dangerous Occurrenc</u>	e" under Section 16.0	01 of the NWT/Nuna	vut Mine Health and S	Safety Regulations?			
Is this a '	' <u>Serious Injury</u> " under :	Section 16.01 of the N	IWT/Nunavut Mine	Health and Safety Reg	gulations?			
Using th	e Incident Classificatio	on Matrix the <b>Actual</b> (	Consequence of this	incident was Mi	nor			
Using th	e Incident Classificatio	on Matrix the <b>Reason</b>	able Potential Con	sequence of this incic	lent was Serio	ius		
	Consequences	Minor	Medium	Serious	Major	Catastrophic		
	Health and Safety	No Injury, Bump & Scrape	First Aid	Medical Treatment or Restricted Work Injury	Lost Time Injury	Fatality		
	Environment	Non-reportable spill, No impact	Reportable Spill No impact	Reportable Spill Reversible Impact	Reportable Spill Long-Term Impact	Reportable Spill Irreversible Impact		
	Operations	< \$5K Loss	\$5K to \$50K Loss	\$50K to \$250K	\$250K to \$1000K	>\$1000K		
	Reputation	Community complaint - isolated and resolved  Potential noncompliance with no impact	Low Level community impact Non-compliance with potential for fine or order	Community dissatisfaction Non-compliance with fine or order issued	Significant social harm Breach of license	Permanent social harm License Revocation		



	STEP 2. INFORMATION GATHERING (Investigator)											
					lnv	estigato	r(s)					
Lead Investigator												
Others												
☐ Witnesses Prese	ent?								⊠ Inciden	t occur ou	utdo	oors?
□ Did the inciden	t warr	ant a drug 8	alcohol to	est?						available	of t	he Incident?
					Weath	ner Conc	litions					
Temperature  Wind Speed & Direction  Light Conditions  Becoming somewhat light												
General Weather Conditions Clear and cold												
					Vehi	icle Acci	dent					
Driver	(	Contractor				Driver			# of Passen	gers	Но	urs Worked by Driver Prior to Accident
Baffinland											3	
Provincial/Territoria	l Licen	se Iss	ue Date			Expiry D	piry Date Site Driver Permission			ion		
Yes									Ligh	t Vehicle &	Tot	e Road
Appearance of Drive	er											
						Road						
Road Type		Roa	ad Surface	Cond	ditions		Direction	of	Travel			Speed (km/hr)
Interior Site Roads Slippery					Moving Forward 10							
					Vel	hicle Deta	ils					
Туре				_	Make			N	1odel		ı	Year
Other					kalmar			L				
				e Co	ndition	(as inspec	•		chanic)			
Brakes Tires					Steering						ghts	
Good						Good				Go	ood	



Spill / Release						
Spill / Release Details  Motor Oil spilled when unit rolled over.  Substance Spilled  Lubricating Oils  Initiating Event	Quantity Unit Habitat  40 L Tundra beside road  Method of Cleanup					
Unit on it's side	Soil disposed of in quatrex bags, spill socks and pads disposed of in quatrex bag.					
Drug Testing Results						
Results of Drug Test  Negative (No Drugs/Alcohol Indicated)						



At least one must be selected (two or three are typical)							
Equipment	t Failure Issues	Procedural Issues	Communic	ation Issues	Engin	eering Issue	
1.1 Defection	ve Parts / Tools / nent	3.1 No Procedure	5.1 Shift Cha	ange Impact		olace/Roadway Design / Conditions	
1.2 Design Issue		3.2 Error in Procedure	5.2 Failure to Agree on How Task to be Performed			ested Work Area / cted Action	
1.3 Prevent	tative nance Issue	3.3 Procedure too Complex	5.3 Failure to	o Understand nication		quate display, signs, alarms, warnings	
1.4 Repeat	Failure	3.4 Procedure not Followed	5.4 Inadequ Commu		7.4 Inadeo Barrie	quate Guards or rs	
☐ 1.5 Tolerab	ole Failure		5.5 Cross-De	epartment nication Issue	7.5 Noise	/ Vibration / Light	
					☐ Body	Body Mechanics, Placement, oning, Repetitive	
Natural E	lements Issue	Training Issue	Work Dire	ection Issue	Quality	Control Issue	
2.1 Tempe	rature Extremes	4.1 No Training	6.1 No Direc	tion Provided	8.1 No Quality Controls		
2.2 Weathe	er Conditions	4.2 Training not Followed, Unintentional	6.2 Inadequate Direction Provided		8.2 Inadequate Quality Controls		
2.3 Ground Earthqu	l Movement / uake	4.3 Trained but Inexperienced	6.3 Failure t	o Follow Work	8.3 Poor Compliance or Application of Controls		
·		4.4 Training not followed - Intentional	⊠ 6.4 Distract	ion	Other		
			6.5 Fatigue		9.1 Other	(explain below)	
			6.6 Impairm	ent			
	Cause Explanatio	n (For Each Cause Identified in C	asual Analysis - F	Provide a Brief Ex	planation of \	Why)	
Code			Explanation				
6.4	Reaching down to	the right back of seat to reset the	wobasto heater				
7.1	Road shoulder wa	s soft and gave way no berms alon	g this road.				
		Correction	ve Actions:				
NI -			e Actions.		IT.	D. D.	
No.		Description		Issued	Due Date		
6.4	focus off of the roa	I crews about not reaching for any ad or area of working while operat area stop to adjust, reach or any al than operating/driving	ting. To come to a		/ Supervisors	31-Dec-18	
7.1	Ensure	e road is plowed and sanded at all t	times	s Surface Works		31-Dec-18	
7.1		possibility of placing berms on we load, 3 ft high as this is the only sid		Surface V	31-Dec-18		
6.4	Move	Heater so not with in reach of oper	ators.	Mainten	ance	31-Dec-18	



	Investigat	tion Team and Factors Limiting the Investigation (if Any)	
Name		Position	Signature
Bruce Arnol	ld	Site Services Supervisor	Investigation Accepted X
James Mart	in	Site Services Superintendent	Investigation Accepted $ imes$
Statement of Limiting Fac		INAL COMMENTS BY INVESTIGATORS OR MANAGEMENT	
Name	3127 4.71	Comment	Date



KM80 Bridge As-Built

