

Report on Actions Taken:

June 7th 2016, Fisheries Act Direction (File number: 4408-2016-05-10-001) and Response to June 16, 2016, INAC Letter of Non-Compliance Bi-Weekly Report No. 3 for Period July 23 to August 5, 2016



Table of Contents

List of	Appendices	1
Report	t Basis	3
1. Ur	nauthorized Releases and Contributing Factors	4
2. Re	etention of Third Party Expertise	4
3. W	ater Quality and Acute Toxicity Sampling Results for Areas of Concern	4
4. Co	orrective Measures for Reported Spills and Other Concerns	5
4.1.	Immediate actions undertaken to address issues	5
4.2.	Detailed work completed by area of concern	5
5. Ne	ext Steps	6
5.1.	Bi-weekly update reports	6
5.2.	Completed construction repairs	6
5.3.	Lessons-learned	6
5.4.	Long-term action plans	6
5.5.	Completion Report	6

List of Appendices

Appendix A - NT-NU Spill Reports

Spill Report 16-158 - Sheardown Lake Tributaries and Sheardown Lake.

Spill Report 16-176 - Camp Lake Tributaries and Camp Lake.

Spill Report 16-181- Mine Haul Road to Mary River and Sheardown Lake Tributary.

Spill Report 16-198 - Camp Lake Tributary 1

Spill Report 16-202 - Milne Inlet Tote Road, Tributaries to Mary Lake, David Lake, and Muriel Lake.

Spill Report 16-202 – Update 1 - Milne Inlet Tote Road, Tributaries to Muriel Lake (BG-31) and David Lake (BG-28)



Appendix B - Surface Water Quality and Acute Toxicity Results for Affected Areas

- B.1 Sample IDs and Locations
- B.2 Water Quality and Results
- B.3 Acute Toxicity Results

Appendix C - Sequence of Events and Actions Taken by Spill Report and Other Concerns (With Photos)

- C.1 Spill Repot 16-158
- C.2 Spill Report 16-176
- C.3 Spill Report 16-181
- C.4 Spill Report 16-198
- C.5 Spill Report 16-202
- C.6 Milne and Mine Site Drainage Works
- C.7 Removal of Impacted Snow: Milne Beach and Tote Road Bridges



Report Basis

The document provided, herein, is the third -bi-weekly progress report as required under the June 7 Fisheries Direction provided by Environment Canada (page 6, Measures to be Taken, Item 1) and reports on the period July 23 through August 5. Specifically, the bi-weekly reports are to provide updates on the actions taken to address sedimentation issues and ongoing actions being taken at the site to address Items 2 and 3 as outlined in the Fisheries Direction. Previous actions, including pre-freshet actions, were reported on in the June 24th, 2016, Report on Actions Taken and the July 8 and July 22 Bi-Weekly Reports Nos. 1 and 2.



1. Unauthorized Releases and Contributing Factors

A number of unauthorized releases of sediment were reported to Environment Canada, Indigenous and Northern Affairs Canada, and the NT-NU Spill Line during the month of May and June. These included the Spill Report numbers 16-158, 16-176, 16-181, 16-198, 116-202, and 116-202 Update No. 1. Copies of the original Spill Reports are provided in Appendix A. During the current reporting period, there were no further unauthorized sediment releases reported.

As of August 5, the potentially affected drainages continue to run, for the most part, visually clear of sediment. There were moderate rainfall events during the reporting period which resulted is some minor turbidity in Camp Lake Tributary and tributaries discharging to Mary River, especially during the early August period. Sampling has been completed for this period and results are forthcoming and will be provided in the next bi-weekly report. A natural sedimentation event, unrelated to Project activities, occurred upstream on Mary River (10 km upstream of Deposit No. 1) during the reporting period, causing the waters of Mary River to flow visually brown in colour in the vicinity of the Mine Site.

2. Retention of Third Party Expertise

When sediment release events were first observed and reported, third party expertise was retained and these individuals were brought to site. A list of those individuals and support provided was detailed in the June 24th, 2016, Report on Actions Taken. We continue discussions with those various individuals to provide advice as warranted. During the reporting period, the following consultants/contractors provided assistance:

In early August, Golder was selected as the key consultant to support Baffinland in the development of the Dust Mitigation Action Plan and the Tote Road and Mine Haul Road Mitigation Action Plans.

3. Water Quality and Acute Toxicity Sampling Results for Areas of Concern

Spill Reports for sediment releases are provided in Appendix A. Potential receivers for the sediment releases included Sheardown Lake, Sheardown Lake Tributary, Camp Lake, Camp Lake Tributaries, Mary River and Mary River Tributaries, David Lake and David Lake Tributaries, Muriel Lake and Muriel Lake Tributaries.

Available water quality and acute toxicity results for Sheardown Lake, Camp Lake, and Mary River systems are provided in Appendix B. These results include data provided in the June 24, July 8, and July 22 reports, as well as new results that became available during the current reporting period. GPS coordinates and maps are provided to show approximate sample locations as well as the location of structures that were installed to mitigate the sediment concerns.



Water quality results have been compared to the Effluent Quality Discharge Limits for Contact Water (Table 11) provided in the Type "A" Water Licence No. 2AM-MRY1325 for the Mary River Project, which are summarized in the table below:

Parameter	Maximum Average Concentration (mg/L)	Maximum Concentration of any Grab Sample (mg/L)
Total Suspended Solids (TSS)	15	30
Oil and Grease	No Visible Sheen	No Visible Sheen
рН	Between 6.0 and 9.5	Between 6.0 and 9.5

Note that in areas where there is or has been active construction, the following effluent discharge limits apply:

Parameter	Maximum Average Concentration	Maximum Concentration of any		
	(mg/L)	Grab Sample (mg/L)		
Total Suspended Solids (TSS)	50	100		
Oil and Grease	No Visible Sheen	No Visible Sheen		
pH	Between 6.0 and 9.5	Between 6.0 and 9.5		

During the current July 23 to August 5 reporting period, there were no exceedances of the Type A Water Licence criteria. Minor turbid conditions were observed along Camp Lake Tributary outlet, however, water samples from early August period were not available for this location for inclusion in this report. These results will be included during the next reporting period.

Due to the acceptable water quality results over the reporting period for the areas of concern, further acute toxicity analyses was not performed. Previous acute toxicity analyses have shown non-lethal results from the discharge water samples that were collected and reported previously.

Water sampling will continue on a periodic basis, and additional data, including laboratory results that are in progress for this reporting period, will be included in future bi-weekly update reports.

4. Corrective Measures for Reported Spills and Other Concerns

4.1. Immediate actions undertaken to address issues

A number of immediate actions were undertaken to address sediment releases to water bodies that were documented in the Spill Reports submitted to authorities. These actions were presented previously in the reports provided on June 24, July 8, and July 22, 2016 (Reports on Actions Taken).

In the case of the Milne Ore Pad and the Mine Site Ore Pad drainage and collection systems, construction of ditch systems were completed by June 15 and July 15, respectively. As of those dates, the ditching systems were functional and currently performance is under observation and evaluation. Construction Summary Reports (CSRs) for the facilities are currently in preparation and will be submitted to the Nunavut Water Board within three months after the substantial completion of construction.

4.2. Detailed work completed by area of concern

Any new work actions taken during the July 23 to August 5 reporting period for the areas of concern are provided in Appendix C. Actions, if taken, are appended to the overall action list provided in the previous work action lists. In addition, new photos for the current reporting period are provided as warranted. Appendix C is subdivided as follows:



Appendix C.1: Spill Report 16-158 - Sheardown Lake Tributaries and Sheardown Lake.

Appendix C.2: Spill Report 16-176 - Camp Lake Tributaries and Camp Lake.

Appendix C.3: Spill Report 16-181- Mine Haul Road to Mary River and Sheardown Lake Tributary.

Appendix C.4: Spill Report 16-198 - Camp Lake Tributary 1

Appendix C.5: Spill Report 16-202 and Update No. 1 - Milne Inlet Tote Road, Tributaries to Mary Lake, David Lake, and Muriel Lake.

Appendix C.6: Milne Port Ore Stockpile Drainage Collection System.

Appendix C.7: Milne Port Beach

Appendix C.8: Sediment on and under bridges along Tote Road.

5. Next Steps

5.1. Bi-weekly update reports

Bi-weekly update reports will continue to be provided including any additional construction work completed and additional water sampling data. The next report will cover the period from August 6 to 19, 2016.

5.2. Completed construction repairs

Construction repairs for the areas of concern including the Milne Port Ore Stockpile Drainage system and the Mine Site Crusher Stockpile Pad have been substantially completed by the established July 17, 2016, deadline.

5.3. Lessons-learned

Baffinland will conduct an extensive review and analyses of lessons- learned with regard to sedimentation issues along the roads and at the camps. Key conclusions and recommendations will be provided in the Completion Report which will be provided to regulators and inspectors. Baffinland will be open to any comments and recommendations received and will make revisions as is appropriate.

5.4. Long-term action plans

Longer term action plans related to dust mitigation and Tote Road work as related to drainage considerations are underway and will be provided by September 30, 2016.

5.5. Completion Report

A completion report that summarizes the results of all work to date and is signed off by the CEO of the company will be provided by September 30, 2016.

Appendix A

NT-NU Spill Reports

Spill Report 16-158 - Sheardown Lake Tributaries and Sheardown Lake.

Spill Report 16-176 - Camp Lake Tributaries and Camp Lake.

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Spill Report 16-202 – Update 1 - Milne Inlet Tote Road, Tributaries to Muriel Lake (BG-31) and David Lake (BG-28)





Canadä NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130 FAX: (867) 873-6924 EMAIL: spills@gov.nt.ca

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J	FACTORS AFFECTING SPILL OR Snow covered area		DESCRIBE ANY A	ASSISTANCE REQUIRED		HAZARDS TO PERSONS, N/A	PROPERTY OR EQUIPMENT		
	On Saturday, May 7, 2016, a snowmelt event occurred at the Mine Site. Runoff containing sediments and discoloured water were observed to flow into Sheardown Tributary and Sheardown Lake at around 1900 HRS. The source of the suspected off-spec drainage was dirty snow located downwind of the Crusher Pad. The event resulted in some siltation/discoloured water in two streams flowing from adjacent areas onto and under the ice of Sheardown Lake. In accordance with the Surface Water Management Plan, controls were implemented that included installation of silt fences and the deployment of flocculent and treated jute to settle sediments prior to discharge. Further actions are planned that will reduce the potential impact from the dirty snow source area. Dirty snow removal, check dam/sump construction, and additional flocculation are being considered. Daily monitoring of the water quality and flow is ongoing. Spill report updates will be provided as warranted. A follow-up report documenting the occurrence and providing recommendations will be submitted within 30 days								
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REPORT DATE: MONTH - DAY - YEAR

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

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REPORT LINE USE ONLY

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REPORT DATE: MONTH - DAY - YEAR

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

REPORT TIME

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130 FAX: (867) 873-6924 EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

B 05-20-2016 19:00 hrs 10-00 hrs 10-	A	REPORT DATE: MONTH – DAY 05-21-2016	′–YEAR		21:00			XORIGINAL SPILL REPORT,		REPORT NUMBER
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Melt Water	H		(IF APPLICABLE)		ITRES, KILC	GRAMS OR CUI	BIC METRES			
DESCRIBE ANY ASSISTANCE REQUIRED N/A ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS On May 20 and 21, 2016, runoff containing sediment was observed to be flowing from the surface of the Mine Haul Road through several breaks (punch outs) on the outer edge of the road. The punch outs were installed to allow contact water on the road surface to be efficiently discharged from the road surface. On the afternoon of May 19, discharges of contact water increased and it became apparent that there was risk to Mary River and Sheardown tributary/Lake. The berm punch outs were sealed and road contact water has been diverted to three selected locations that will minimize potential flows to downstream fish habitat and water bodies. Check dams, silt fences/curtains, floculants are being utilized to assist with this initial effort. It is expected that the sediment will settle and will be discharged back to the receiving environment. Report updates will be provided with further information in the near future. This incident is being reported as required by the conditions of Water Licence No. 2AM-MRY1325 and as required by subsection 38(4) of the Fisheries Act. L REPORTED TO SPILL LINE BY DISTION EMPLOYER Baffinland Provided With Env. Superintendent Provided With Env. Sup					_				IINATION IN	SQUARE METRES
ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS On May 20 and 21, 2016, runoff containing sediment was observed to be flowing from the surface of the Mine Haul Road through several breaks (punch outs) on the outer edge of the road. The punch outs were installed to allow contact water on the road surface to be efficiently discharged from the road surface. On the afternoon of May 19, discharges of contact water increased and it became apparent that there was risk to Mary River and Sheardown tributary/Lake. The berm punch outs were sealed and road contact water has been diverted to three selected locations that will minimize potential flows to downstream fish habitat and water bodies. Check dams, silt fences/curtains, floculants are being utilized to assist with this initial effort. It is expected that the sediment will settle and will be discharged back to the receiving environment. Report updates will be provided with further information in the near future. This incident is being reported as required by the conditions of Water Licence No. 2AM-MRY1325 and as required by subsection 38(4) of the Fisheries Act. L REPORTED TO SPILL LINE BY Jim Millard Env. Manager Baffinland Mary River 647-253-0596 M ANY ALTERNATE CONTACT Allan Knight Env. Superintendent Env. Superintendent Baffinland Position Allen From Alternate Contact Allan Knight For Station Operator Station Operator Report Line Use ONLY REPORT LINE USE	1						base			
On May 20 and 21, 2016, runoff containing sediment was observed to be flowing from the surface of the Mine Haul Road through several breaks (punch outs) on the outer edge of the road. The punch outs were installed to allow contact water on the road surface to be efficiently discharged from the road surface. On the afternoon of May 19, discharges of contact water increased and it became apparent that there was risk to Mary River and Sheardown tributary/Lake. The berm punch outs were sealed and road contact water has been diverted to three selected locations that will minimize potential flows to downstream fish habitat and water bodies. Check dams, silt fences/curtains, floculants are being utilized to assist with this initial effort. It is expected that the sediment will settle and will be discharged back to the receiving environment. Report updates will be provided with further information in the near future. This incident is being reported as required by the conditions of Water Licence No. 2AM-MRY1325 and as required by subsection 38(4) of the Fisheries Act. L REPORTED TO SPILL LINE BY Jim Millard Env. Manager Baffinland Mary River 647-253-0596 M ANY ALTERNATE CONTACT POSITION EMPLOYER LOCATION CALLING FROM FLOVER Affinland Sufficiency Sufficiency Station Operators S	J				' ASSISTAN	CE REQUIRED		HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A		
the Mine Haul Road through several breaks (punch outs) on the outer edge of the road. The punch outs were installed to allow contact water on the road surface to be efficiently discharged from the road surface. On the afternoon of May 19, discharges of contact water increased and it became apparent that there was risk to Mary River and Sheardown tributary/Lake. The berm punch outs were sealed and road contact water has been diverted to three selected locations that will minimize potential flows to downstream fish habitat and water bodies. Check dams, silt fences/curtains, floculants are being utilized to assist with this initial effort. It is expected that the sediment will settle and will be discharged back to the receiving environment. Report updates will be provided with further information in the near future. This incident is being reported as required by the conditions of Water Licence No. 2AM-MRY1325 and as required by subsection 38(4) of the Fisheries Act. L REPORTED TO SPILL LINE BY Jim Millard Env. Manager Baffinland Mary River 647-253-0596 M ANY ALTERNATE CONTACT Allan Knight Env. Superintendent Baffinland Mary River 647-253-0596 N REPORT LINE USE ONLY REP		ADDITIONAL INFORMATION, O	COMMENTS, ACTIONS PROPO	OSED OR TAKEN T	O CONTAIN	I, RECOVER OR	DISPOSE OF	SPILLED PRODUCT	AND CONTAI	MINATED MATERIALS
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Allan Knight Env. Superintendent Baffinland 902-403-1337 6016 RECEIVED AT SPILL LINE BY POSITION STATION OPERATOR STATION OPERATOR SIGNIFICANCE MINOR MAJOR UNKNOWN FILE STATUS OPEN CLOSED	L			r					-	
RECEIVED AT SPILL LINE BY STATION OPERATOR POSITION STATION OPERATOR STATION OPERATOR SIGNIFICANCE MINOR MAJOR UNKNOWN FILE STATUS OPEN CLOSE AGENCY CONTACT NAME CONTACT TIME REMARKS FIRST SUPPORT AGENCY SUPPORT AGENC	М			tendent			AL Q L	TERNATE CONTACT 02-403-1337 CATION		-
N STATION OPERATOR SIGNIFICANCE MINOR MAJOR UNKNOWN FILE STATUS OPEN CLOSE AGENCY CONTACT NAME CONTACT TIME REMARKS LEAD AGENCY FIRST SUPPORT AGENCY SECOND SUPPORT AGENCY STATUS OPEN CLOSE SECOND SUPPORT AGENCY STATUS OPEN CLOSE AGENCY CONTACT NAME CONTACT TIME REMARKS SECOND SUPPORT AGENCY STATUS OPEN CLOSE AGENCY CONTACT NAME CONTACT TIME REMARKS SECOND SUPPORT AGENCY STATUS OPEN CLOSE AGENCY CONTACT NAME CONTACT TIME REMARKS SECOND SUPPORT AGENCY STATUS OPEN CLOSE AGENCY CONTACT NAME CONTACT TIME REMARKS				REPORT LIN	IE USE ON	LY			·	
LEAD AGENCY EC CCG GNWT GN ILA INAC NEB TC SIGNIFICANCE MINOR MAJOR UNKNOWN FILE STATUS OPEN CLOSED AGENCY CONTACT NAME CONTACT TIME REMARKS LEAD AGENCY FIRST SUPPORT AGENCY SECOND SUPPORT AGENCY SECO	N	RECEIVED AT SPILL LINE BY	POSITION		EMPLOYE	R	LC	CATION CALLED	R	EPORT LINE NUMBER
AGENCY CONTACT NAME CONTACT TIME REMARKS LEAD AGENCY FIRST SUPPORT AGENCY SECOND SUPPORT AGENCY FIRST SUPPORT AGENCY	IN		STATION OPERATOR				YE	ELLOWKNIFE, NT	(8	67) 920-8130
LEAD AGENCY FIRST SUPPORT AGENCY SECOND SUPPORT AGENCY Output Description: SECOND SUPPORT AGENCY SECOND SUPPORT AGENCY SECOND SUPPORT AGENCY	LEAD	AGENCY DEC DCCG DC	GNWT □ GN □ ILA □ INAC	NEB □TC	SIGNII	FICANCE MIN	IOR MAJO	R 🗆 UNKNOWN	FILE STATU	S □ OPEN □ CLOSED
FIRST SUPPORT AGENCY SECOND SUPPORT AGENCY SECOND SUPPORT AGENCY	AGEN	NCY	CONTACT NAME		CONT	ACT TIME		REMARKS		
SECOND SUPPORT AGENCY	LEAD	AGENCY								
	FIRS	T SUPPORT AGENCY								
THIRD SUPPORT AGENCY	SECO	OND SUPPORT AGENCY								
	THIR	D SUPPORT AGENCY								





NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130 FAX: (867) 873-6924 EMAIL: spills@gov.nt.ca

Α	REPORT DATE: MONTH – DAY – 05-31-2016	TEAT		TEPORT TIME		▼ORIGINAL SPILL REPORT, REPORT NUME			
В	OCCURRENCE DATE: MONTH -		OCCURRENCE TIME			R UPDATE # DTHE ORIGINAL SPILL REPORT	16 198		
	unknown - within last several days LAND USE PERMIT NUMBER (IF APPLICABLE)			unknown	ENCE NUMBER (IF				
С	IOL - Commercial I	Lease: Q13C301		2AM-N	IRY1325 Ty	,			
D	GEOGRAPHIC PLACE NAME OR Mary River Mine Si			CATION REGION	NUNAVUT	☐ ADJACENT JURISDICTION	N OR OCEAN		
Ε	LATITUDE DEGREES 71	MINUTES 19	SECONDS 46	LONGITUDI DEGREES	79	MINUTES 22	SECONDS 41		
F	RESPONSIBLE PARTY OR VESS Baffinland Iron Mir			ARTY ADDRESS OR O		₁ 0, Oakville, ON L6H	I 0C3		
G	ANY CONTRACTOR INVOLVED N/A		CONTRACTOR A	DDRESS OR OFFICE	LOCATION				
	PRODUCT SPILLED Sediment			RES, KILOGRAMS OF		U.N. NUMBER			
Н	SECOND PRODUCT SPILLED (IF	APPLICABLE)	-	RES, KILOGRAMS OI		U.N. NUMBER			
	N/A		44m3			N/A			
I	steep sandy strear	n bank	spill cause warming t	temperatures	5	AREA OF CONTAMINATION IN 110m2	N SQUARE METRES		
J	FACTORS AFFECTING SPILL OF POOR ACCESS	RECOVERY	DESCRIBE ANY A	ASSISTANCE REQUIF	RED	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A			
K	investigation, the source of the sediment was from a stream bank failure. The embankment failure may have been caused by water draining from the airstrip. The event resulted in sandy deposit of material that partially encroached on the stream. Once discovered, silt fences were erected around the sediment deposit. A schedule is being developed for the removal of the sediment and stabilization of the stream embankment at that location. The water will be rerouted from this location and redirected to an area that is more stable. The material is coarse sand and does not appear to be mobile in water. A follow-up report documenting the occurrence and providing recommendations will be submitted within 30 days.								
	mobile in water. A	stream embankı ın area that is mo follow-up report	ment at that ore stable.	t location. T The material	he water w is coarse s	rill be rerouted fron sand and does not	n this location appear to be		
L	mobile in water. A	stream embanki an area that is mo follow-up report vithin 30 days.	ment at that ore stable. It document	t location. T The material	he water w is coarse s rrence and	vill be rerouted from sand and does not I providing recomm	n this location appear to be nendations		
L M	mobile in water. A will be submitted w	stream embanki an area that is mo follow-up report vithin 30 days.	ment at that ore stable. It document	t location. T The material ing the occu	he water wis coarse strence and	rill be rerouted fron sand and does not I providing recomn	n this location appear to be nendations		
	mobile in water. A will be submitted verified to spill line by Jim Millard ANY ALTERNATE CONTACT	stream embanking area that is months follow-up report within 30 days. POSITION Env. Manager POSITION	ment at that ore stable. It document	t location. T The material ing the occu EMPLOYER Baffinland EMPLOYER Baffinland	he water wis coarse strence and	rill be rerouted from sand and does not I providing recommodition calling from Mary River	this location appear to be nendations TELEPHONE 647-253-0596 ALTERNATE TELEPHONE		
M	mobile in water. A will be submitted verified to spill line by Jim Millard ANY ALTERNATE CONTACT	stream embanking area that is months follow-up report within 30 days. POSITION Env. Manager POSITION	endent	t location. T The material ing the occu EMPLOYER Baffinland EMPLOYER Baffinland	he water wis coarse strence and	rill be rerouted from sand and does not I providing recommodition calling from Mary River	this location appear to be nendations TELEPHONE 647-253-0596 ALTERNATE TELEPHONE		
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M N LEAL	mobile in water. A will be submitted verified to spill line by Jim Millard ANY ALTERNATE CONTACT Allan Knight RECEIVED AT SPILL LINE BY DAGENCY EC CCG GN	POSITION Env. Manager POSITION Env. Manager POSITION Env. Superint POSITION Env. Superint	endent	EMPLOYER Baffinland EMPLOYER Baffinland EMPLOYER Baffinland EMPLOYER SIGNIFICANCE	he water wis coarse strence and	CATION CALLING FROM Mary River TERNATE CONTACT OCATION CALLED ELLOWKNIFE, NT R UNKNOWN FILE STAT	this location appear to be nendations TELEPHONE 647-253-0596 ALTERNATE TELEPHONE 6016		
M N	mobile in water. A will be submitted verified to spill line by Jim Millard ANY ALTERNATE CONTACT Allan Knight RECEIVED AT SPILL LINE BY DAGENCY EC CCG GN	POSITION POSITION Env. Superint POSITION Env. Superint	endent	t location. T The material ing the occur EMPLOYER Baffinland EMPLOYER Baffinland EMPLOYER EMPLOYER	he water wis coarse strence and	cill be rerouted from sand and does not and providing recommodation calling from Mary River TERNATE CONTACT DOCATION CALLED ELLOWKNIFE, NT	TELEPHONE 647-253-0596 ALTERNATE TELEPHONE 6016 REPORT LINE NUMBER (867) 920-8130		
N LEAL	mobile in water. A will be submitted verified to spill line by Jim Millard ANY ALTERNATE CONTACT Allan Knight RECEIVED AT SPILL LINE BY DAGENCY EC CCG GN	POSITION Env. Manager POSITION Env. Manager POSITION Env. Superint POSITION Env. Superint	endent	EMPLOYER Baffinland EMPLOYER Baffinland EMPLOYER Baffinland EMPLOYER SIGNIFICANCE	he water wis coarse strence and	CATION CALLING FROM Mary River TERNATE CONTACT OCATION CALLED ELLOWKNIFE, NT R UNKNOWN FILE STAT	TELEPHONE 647-253-0596 ALTERNATE TELEPHONE 6016 REPORT LINE NUMBER (867) 920-8130		
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N LEAL AGEI LEAL	mobile in water. A will be submitted verified to spill line by Jim Millard ANY ALTERNATE CONTACT Allan Knight RECEIVED AT SPILL LINE BY D'AGENCY EC CCG GN NCY COMMON	POSITION Env. Manager POSITION Env. Manager POSITION Env. Superint POSITION Env. Superint	endent	EMPLOYER Baffinland EMPLOYER Baffinland EMPLOYER Baffinland EMPLOYER SIGNIFICANCE	he water wis coarse strence and	CATION CALLING FROM Mary River TERNATE CONTACT OCATION CALLED ELLOWKNIFE, NT R UNKNOWN FILE STAT	TELEPHONE 647-253-0596 ALTERNATE TELEPHONE 6016 REPORT LINE NUMBER (867) 920-8130		





NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130 FAX: (867) 873-6924 EMAIL: spills@gov.nt.ca

Α	REPORT DATE: MONTH – DAY 06-02-2016	Y-YEAR		REPORT TIME		XORIGINAL SPILL REPOR	Τ,	REPORT NUMBER
Г	OCCURRENCE DATE: MONTH	I – DAY – YEAR		OCCURRENCE	: TIME	DR □ UPDATE #		16 - 202
В	05-31-2016			2100 HRS		TO THE ORIGINAL SPILL RI	EPORT	
С	IOL - Commercial				ER LICENCE NUMBER (•		
D	GEOGRAPHIC PLACE NAME OF Mary River Mine S				REGION	□ ADJACENT JURISE	ICTION	OR OCEAN
Е	LATITUDE			LONG	GITUDE			
	DEGREES	MINUTES	SECONDS		REES	MINUTES	SE	CONDS
F	RESPONSIBLE PARTY OR VERBARRING AND METERS OF THE PARTY OF VERBARRING AND ADDRESS OF THE PARTY O	ines Corp.	2275 Midd	lle Road	<u> </u>	00, Oakville, ON	L6H	0C3
G	ANY CONTRACTOR INVOLVED N/A	0	N/A	DDRESS OR C	FFICE LOCATION			
	PRODUCT SPILLED			*	MS OR CUBIC METRE			
Н	Sediment SECOND PRODUCT SPILLED	(IE ADDI ICADI E)	-	<u> </u>	resent time	N/A S U.N. NUMBER		
•	N/A	(IF APPLICABLE)	N/A	neo, NILUGRA	INIO OH CUBIC METHE	N/A		
I	SPILL SOURCE Freshet erosion		spill cause warming t	emperat	ures	AREA OF CONTAMINA	TION IN	SQUARE METRES
J	FACTORS AFFECTING SPILL O	OR RECOVERY	DESCRIBE ANY A	SSISTANCE F	EQUIRED	HAZARDS TO PERSON N/A	IS, PROF	PERTY OR EQUIPMENT
K	where there was a stream crossings is erosion from so low and fish have flocculant have be excavated and readdition, the emb	CV-223 at km 97 pring freshet. The not yet started t een deployed as moved under the	7, BG-17 at ki here are no fi to move into appropriate supervision	m 90, an sh prese the strea Sedime of Envi	d BG-29 at kment at these loam. In the ments in culvert ronment staff	n 85. The source cations because antime silt fenc outlet basins w within the next	e of the flower	he sediment vs are very d in-ditch carefully ral days. In
L	REPORTED TO SPILL LINE BY Jim Millard	POSITION Env. Manage		MPLOYER Baffinlar		OCATION CALLING FROM		ELEPHONE 647-253-0596
M	ANY ALTERNATE CONTACT Allan Knight	POSITION Env. Superir		MPLOYER Baffinlar	,	ALTERNATE CONTACT 902-403-1337		LTERNATE TELEPHONE 6016
		ı	REPORT LINE	USE ONLY		-		
N	RECEIVED AT SPILL LINE BY	POSITION	E	EMPLOYER	I	OCATION CALLED	R	EPORT LINE NUMBER
IN		STATION OPERATOR			,	/ELLOWKNIFE, NT	3)	
LEAD	AGENCY DEC DCCG DC	GNWT □GN □ILA □INA	C NEB TC	SIGNIFICA	NCE MINOR MAJ	OR UNKNOWN FIL	E STATU	367) 920-8130
AGE	NCY	CONTACT NAME		CONTACT		i i		367) 920-8130 IS □ OPEN □ CLOSED
LEAD	AGENCY			OOMAOT	ГІМЕ	REMARKS		· · · · · · · · · · · · · · · · · · ·
FIRS				CONTACT	ΓΙΜΕ	REMARKS		· · · · · · · · · · · · · · · · · · ·
				CONTACT	ГІМЕ	REMARKS		· · · · · · · · · · · · · · · · · · ·
	T SUPPORT AGENCY OND SUPPORT AGENCY			OOMINGT	ГІМЕ	REMARKS		





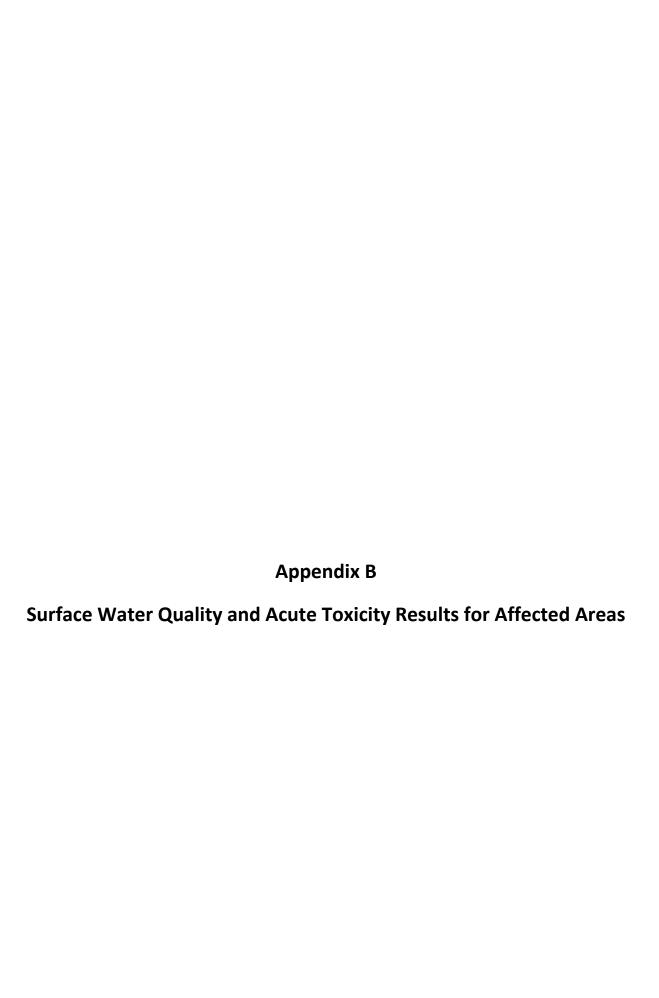
NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130 FAX: (867) 873-6924 EMAIL: spills@gov.nt.ca

Α	REPORT DATE: MONTH – DAY 06-19-2016	/-YEAR				PORT TIME			□ ORIGINAL SPILL REPORT, OR		REPORT NUMBER
В	OCCURRENCE DATE: MONTH	l – DAY – '	YEAR	OCCURRENCE TIME Unknown		[XUPDATE # 1	SPILL REPORT	16 - 202		
С	IOL - Commercial				•				(IF APPLICABLE) Type "A"		_
D	GEOGRAPHIC PLACE NAME OF Mary River Mine				.OCA		REGION	X NUNAVU	Γ □ ADJACENT	JURISDICTION	OR OCEAN
Ε	LATITUDE DEGREES	MINUTE	ES S	SECONDS			IGITUDE GREES		MINUTES	s	ECONDS
F	RESPONSIBLE PARTY OR VE Baffinland Iron M			RESPONSIBLE 2275 Mid					on 00, Oakville	, ON L6H	0C3
G	ANY CONTRACTOR INVOLVED N/A	D		CONTRACTOR A	ADDI	RESS OR	OFFICE LO	CATION			
Н	PRODUCT SPILLED Sediment			QUANTITY IN LI Unquant		-,			S U.N. NUMBER		
П	SECOND PRODUCT SPILLED N/A	(IF APPLI	ICABLE)	QUANTITY IN LI	TRE	S, KILOGR	AMS OR CL	JBIC METRE	S U.N. NUMBER		
I	SPILL SOURCE Freshet melting s	snowp	oack	SPILL CAUSE warming	tei	mpera	tures		AREA OF CON	ITAMINATION IN	SQUARE METRES
J	FACTORS AFFECTING SPILL (OR RECC	OVERY	DESCRIBE ANY	ASS	SISTANCE	REQUIRED		HAZARDS TO N/A	PERSONS, PRO	PERTY OR EQUIPMENT
K	where there was Road. These local generated by the habitat, although sediment is being dams and silt cur locations where the km 90, and BG-29	ations melti flow g cont tain f	s were BG-31 ng snow pacl from these lo trolled from e for stream BG was sedimen	at km 82 a c adjacent cations is ntering th -31 and b t and turb	t to to e l y s	the ro Murie akes a ilt fen- water	28 at knoad. The Lake at these ce and at strea	n 86.3. le streal (BG-31) location silt cur am cros	The sediments are not and David ons by the catain at BG-sesings CV-2	ent appea expected Lake (BC constructi 28. Previ 23 at km	rs to be to be fish G-28). The ion of check ous 97, BG-17 at
L	REPORTED TO SPILL LINE BY Jim Millard		env. Manager			PLOYER affinla	nd		LOCATION CALLING		TELEPHONE 647-253-0596
M	ANY ALTERNATE CONTACT Allan Knight		SITION Env. Superinte	endent		PLOYER affinla	nd		902-403-13		ALTERNATE TELEPHONE 6016
		1		REPORT LIN	E US	SE ONLY					
Ν	RECEIVED AT SPILL LINE BY		OSITION		EMI	PLOYER			LOCATION CALLED		REPORT LINE NUMBER
LEA	 DAGENCY□EC□CCG□(TATION OPERATOR ☐ GN ☐ ILA ☐ INAC	□ NEB □ TC		SIGNIFICA	ANCE □ MI		YELLOWKNIFE, NT OR □ UNKNOWN		867) 920-8130 JS □ OPEN □ CLOSED
AGE	NCY	CONTAC	CT NAME			CONTACT	TIME		REMARKS		
LEA	D AGENCY										
FIRS	T SUPPORT AGENCY										
SEC	OND SUPPORT AGENCY										



Appendix B.1
Sample IDs and Locations

Table B.1.1 - Sample IDs and Locations

Sample Location	Description	Coordinates (Lat/Long)
CLSP-OUT	Camp Lake Sedimentation	N 71 19 42.2
CLSF-001	Pond Outlet	W 79 22 55.4
	Camp Lake Tributary # 1	N 71 19 46.8
CLT-OUT	(100 m upstream of Camp	W 79 23 08.6
	Lake Outfall)	VV 73 23 00.0
	Camp Lake Tributary # 1	
CLT-DS	(100 m downstream of	N 71 19 46.6
CL-DS	Airstrip Drainage outfall into	W 79 22 45.6
	Camp Lake Tributary #1)	
221-211-	Sheardown Lake Tributary	N 71 18 58.3
SDLT-OUT	(40 m upstream of	W 79 18 45.5
	Sheardown Lake Outfall)	
	Landfill Gate Tributary	N 71 18 41.0
LDFG-OUT	(40 m upstream of	W 79 17 40.6
	Sheardown Lake Outfall)	N 74 40 45 0
CD4-IN	Upstream of Check Dam #4	N 71 18 45.8
	Downstream of Check Dam	W79 13 01.0
CD4-OUT	#4	N 71 18 43.2
	Culvert that directs discharge	W 79 12 54.2
CV 194A	from Check Dam # 4 to Mary	N 71 18 41.6
CV 194A	River	W 79 12 55.3
NAC C F	SNP Monitoring Site (290 m	N 71 18 53.9
MS-C-E	upstream of SDLT Outfall)	W 79 17 39.7
	Sheardown Valley Checkdam	N 71 18 38.5
SVCD1-IN	# 1	W 79 15 10.8
0	Sheardown Valley Checkdam	N 71 18 38.5
SVCD1-T1 & SVCD1-T2	# 1 (1 meter downstream)	W 79 15 10.8
MS-08-US	Mary River - Upstream of	N 71 18 37.8
1013-08-03	Deposit 1	W 79 11 13.4
146.00.70	Mary River – Downstream of	N 71 18 38.9
MS-08-DS	tributary draining Deposit 1	W 79 12 09.4
CO 00A	Mary River - Upstream of	N 71 20 51.4
G0-09A	Deposit 1	W 79 00 11.8
G0-09	Mary River - Upstream of	N 71 20 18.0
GU-U9	Deposit 1	W 78 59 46.8
60.000	Mary River - Upstream of	N 71 19 25.6
G0-09B	Deposit 1	W 79 00 22.2

Sample Location	Description	Coordinates (Lat/Long)			
G0-03	Mary River - Upstream of	N 71 18 22.2			
G0-03	Deposit 1	W 79 07 15.9			
G0-01	Mary River - Upstream of	N 71 18 37.7			
G0-01	Deposit 1	W 79 11 50.8			
F0-01	Mary River Tributary draining	N 71 18 38.6			
10-01	Deposit 1	W 79 11 48.3			
E0-10	Mary River – Downstream of	N 71 18 38.4			
20 10	F0-01	W 79 11 56.2			
E0-03	Mary River – Downstream of	N 71 18 22.6			
20 03	Deposit 1	W 79 14 21.7			
	Mary River – Downstream of	N 71 17 58.9			
E0-21	Mine Site Treated	W 79 15 17.2			
	Wastewater Outfall				
	Mary River – Downstream of	N 71 17 45.0			
E0-20	Mine Site Treated	W 79 16 34.5			
	Wastewater Outfall				
CO-10	Mary River – Downstream of	N 71 17 57.6			
	Sheardown Lake Outlet	W 79 18 15.9			
C0-05	Mary River – Downstream of	N 71 16 40.2			
	Mine Site	W 79 22 15.6			
C0-01	Mary River – Before Mary	N 71 15 28.5			
60 01	Lake	W 79 25 47.2			
	Culvert on Mine Haul Road	N 71 10 22 0			
CV1	that directs Deposit 1 runoff	N 71 18 32.9			
	to Mary River	W 79 14 39.5			
	Culvert on Mine Haul Road	N 71 18 55.8			
CV3	that directs Deposit 1 runoff	W 79 13 18.6			
	to Mary River	W 79 13 18.0			
	Culvert on Mine Haul Road	N 71 19 33.9			
CV4	that directs Deposit 1 runoff	W 79 12 56.6			
	to Mary River	VV 73 12 30.0			
	Culvert on Mine Haul Road	N 71 19 21.6			
CV6	that directs Deposit 1 runoff	W 79 12 53.9			
	to Mary River	,5 12 55.5			
	Culvert on Mine Haul Road	N 71 19 43.7			
CV7	that directs Deposit 1 runoff	W 79 12 50.4			
	to Mary River				
	Culvert on Mine Haul Road	N 71 19 21.8			
HCV6	that directs Deposit 1 runoff	W 79 12 18.1			
	to Mary River				

