

### **Report on Actions Taken:**

June 7<sup>th</sup> 2016, Fisheries Act Direction (File number: 4408-2016-05-10-001) and Response to June 16, 2016, INAC Letter of Non-Compliance

Report No. 1



#### **Table of Contents**

Li	st of A	Appendices	. 1
1.	Pre	eventative Measures Undertaken Prior to Freshet and May 2016 Regulatory Inspections	3
	1.1.	Mine Haul Road	3
	1.2.	Other measures	3
2.	Un	authorized Releases and Contributing Factors	4
3.	Re	tention of Third Party Expertise	5
4.	Wa	ater Quality and Acute Toxicity Sampling Results for Areas of Concern	5
5.	Co	rrective Measures for Reported Spills and Other Concerns	7
	5.1.	Immediate actions undertaken to address issues	7
	5.2.	Detailed work completed by area of concern	7
6.	Ne	xt Steps	7
	6.1.	Bi-weekly update reports	7
	6.2.	Completed construction repairs	8
	6.3.	Lessons-learned	8
	6.4.	Long-term action plans	8
	6.5.	Completion Report	8

#### **List of Appendices**

#### **Appendix A - Other Measures Completed Prior to Freshet**

A.1 - Mine Haul Road

#### **Appendix B - 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 C - Surface Water Quality and acute Toxicity Results for Affected Areas

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



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

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



#### 1. Preventative Measures Undertaken Prior to Freshet and May 2016 Regulatory Inspections

#### 1.1. Mine Haul Road

A major program of culvert replacement and riprap installation was completed on the Mine Haul Road between km 105 and km 110 between April 15 and May 15, 2016. The work involved the installation of 525 linear metres of new culverts, and the installation of 4,400 m3 of rip rap in 3.5 km of ditches and on surface slopes located upstream and downstream of seven culvert crossings. The completed work reduces the potential for Mine Haul Road wash out and is designed to effectively and safely convey water from upstream to downstream locations along the Mine Haul Road. A drawing showing the design of the new drainage works as well as series of photos showing culvert installations and riprap installation are presented in Appendix A.1. The work was completed under the guidance of a Professional Engineer, retained by Baffinland, from Golder Associates, and the constructed drainage works are being monitored for operational performance during freshet. Deficiencies identified, if any, during this monitoring will be corrected later in the summer based on recommendations provided by from Golder Associates.

#### 1.2. Other measures

Other measures completed prior to freshet and the May 2016 inspection included a comprehensive program of freshet preparation that included the following components:

- Periodic freshet preparation meetings were held at the Mine Site, coordinated by the
  Environment Department, from early February until the start of freshet in mid-May. The
  meetings were held bi-weekly from the April to May period as freshet neared. The meetings
  were attended by key site managers and superintendents. The meetings were well
  documented and action items were routinely distributed to all participants for advancement.
- Development of list of high priority stream crossings along the Tote Road that required early snow excavation and culvert clearing. The stream crossings were prioritized based on fisheries considerations and flows (high or low flow).
- The procurement of adequate supply of equipment and supplies to support freshet preparation and response activities. These included the purchase of adequate quantity and types of pumps, hoses, steam jetties, silt fences, silt curtains, and flocculent products.
- The assignment of adequate resources at site for the freshet preparation and management effort including production of rip rap using production crushers, haul trucks, excavators, loaders, and steamers.
- The procurement and assignment of contracted labour for the purpose of culvert clearing and snow removal activities.
- An early start to freshet preparation field activities was initiated during 2016 with the start of field activities in mid-April, well in advance of the start of freshet as follows:
  - Monitoring of any runoff from the ore stockpile perimeters to ensure no discharge to the receiving environment. None has been observed.
  - Clearing of snow from the road surface, embankment, and from areas adjacent to the road to minimize the impact of runoff from road contact water to downstream water bodies.
  - Early excavation and clearing of snow from the inlets and outlets of the stream crossings. Clearing of culverts with steamers as required to ensure.
- The installation of silt fences, flocculent blocks, flocculent netting, and check dams at selected locations.

Frozen and hard packed ground conditions contributed to difficulties in the construction of a drainage system around the perimeter of the Milne Port Ore Stockpile and the Crusher Stockpile areas. Attempts were made but these locations were extremely difficult to excavate during the winter season



due to the frozen ground conditions that made penetration with standard excavator near- impossible using standard methods. The project at Milne Port was delayed until the later in May when ground thaw permitted excavation through the developing active layer.

After freshet is over, the results of the 2016 freshet preparation plan will be reviewed and a list of lessons learned will be compiled and corrective actions implemented prior to freshet in 2017.

During 2015, Baffinland retained the services of a flocculent expert, who visited site during August 2015. Based on recommendations made, a quantity of in stream flocculent and other products were purchased for deployment in the event of sediment releases to water bodies.

A monthly fugitive dust monitoring and analytical program was undertaken throughout the year, including the winter season, to track the levels of dust that are deposited at various distances from mining operations. These measurements are an objective means of understanding the levels of dust that are generated from source, transported across site that can become entrained in snow deposits. The dust that becomes entrained in snow can potentially be transported during freshet and this can potentially affect adjacent lakes and streams. The dust monitoring program provides the means to measure changes in potential dust deposition in snow pack.

An Aquatic Effects Monitoring Program and Metal Mining Effluent Regulations Monitoring Program are conducted annually to identify potential changes to water quality, benthos, and fish in downstream water bodies near the Mine Site. The results of the programs during 2016 will identify whether there are any changes to water quality that can be attributed to the specific sediment releases that were reported during the 2016 freshet.

#### 2. 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. A copy of the original Spill Reports are provided in Appendix B. The spill response to these events were resourced substantially at the highest levels within Baffinland management with direct support/involvement from the VP of Sustainability, COO, and CEO.

The major contributing factor to these unanticipated releases included the excessive snowfall, snow pack, and wind events that were observed during 2016. Based on visual observations and anecdotal evidence, the snow pack was much thicker and extensive in 2016 as compared to other years. In addition there were many major wind events during 2016, probably exceeding the number of events that have occurred in recent years' past. The available precipitation and wind data from weather stations will be reviewed for 2016 and compared to previous years to substantiate the visual and anecdotal evidence and included in the Completion Report due September 30, 2016. The thickness and frequency of snow drifting around the project site including the Tote Road, Mine Haul Road, and camp pad areas were extreme and required frequent snow clearing, pushing, and grading activities. This resulted in the removal of surface road materials that became entrained in snow piles adjacent and near the road which were released during the freshet melt. Despite diligent efforts in snow removal and transport, the snow melt that contained road and pad materials melted and were transported to nearby water bodies. The excessive snow pack near the road required the deepening and widening of some of the ditches along the road alignment in order to maintain a transportation link between the two camps for the purpose of safety and transport of provisions. With the commencement of freshet, some of these ditches contributed to limited sediment deposition into nearby water bodies.

A brief warm period in early May resulted in an early onset to freshet that resulted in the unauthorized release reported as 16-158. The quantification of an actual start date of Freshet in a given year can be problematic, as it is often a prolonged event with numerous starts and stalls, dependent on variability of sustained air



temperatures. This year there was a brief warm period during the first week of May, followed by fluctuating periods of freeze and thaw. As of the date of this report, freshet is still ongoing with snow pack still being released from the higher elevation areas.

#### 3. 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. The following expertise was retained:

- Golder Associates A Senior Geotechnical Engineer was brought to site in late May to study the sedimentation issue with emphasis on best practice for drainage works along the Tote Road, as well as looking at drainage generally across the site. Based on input obtained, a list of action items and areas along the Tote Road was identified and prioritized for action by Baffinland's construction teams. This list of priority areas is provided as Table D.4.2 (Appendix D).
- OPC North A Construction Manager was retained in late May to lead the actions identified and prioritized along the Tote Road.
- AMEC A process engineering team was retained to study the effectiveness of various polymers in treating sediment laden waters that were observed along the Mine Haul Road. An intermediate level water treatment professional was brought to site in late May to study the problem and make field and polymer recommendations.
- Kemira Chemical Samples were sent to Kemira for polymer testing in an effort to continue to identify
  best potential product to use to settle sediment from the water column. Selected chemical was
  transported to site to be used in a pilot study. A senior Kemira water quality specialist was brought to
  site in mid-June to conduct bench and pilot scale field testing on select polymer products for select
  areas along the Mine Haul Road.
- Le Group Desfor Road maintenance experts were brought to site in mid-June to provide advice in regard to road maintenance issues.

The input provided will be utilized to develop more detailed action plans related to the Tote Road, Mine Haul Road, and general camp drainage.

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

Spill Reports for sediment releases are provided in Appendix B. Potential receivers for the sediment releases include 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 C. 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 data has 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:

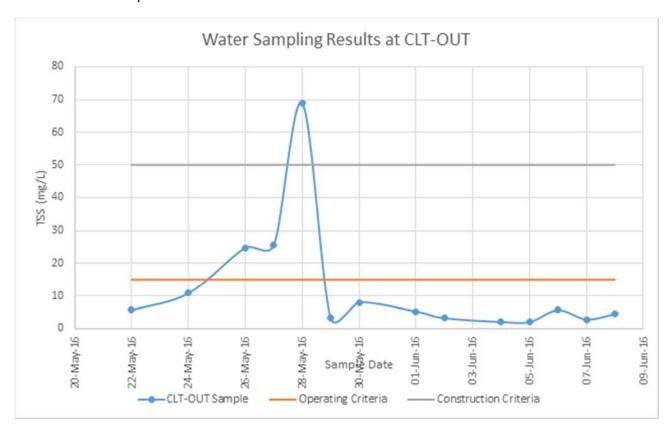
Parameter	Maximum Average Concentration	Maximum Concentration of any
	(mg/L)	Grab Sample (mg/L)
Total Suspended Solids	15	30
Oil and Grease	No Visible Sheen	No Visible Sheen
рН	Between 6.0 and 9.5	Between 6.0 and 9.5



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	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 early stages of freshet, there were a number of instances where water samples exceeded the Discharge Criteria for Total Suspended Solids (TSS) but as the incident response measures were implemented, the majority of the discharge samples taken have met the discharge criteria. As an example, the graph below shows the TSS levels from samples at the Camp Lake Tributary #1 sampling point (CLT-OUT) where the levels of TSS were elevated for several sampling events and then decreased to below the Discharge Criteria as mitigation measures were implemented. A similar trend was observed for the other stream outflows sampled.



In addition, all samples collected for Acute Toxicity analysis have shown non-lethal results from the discharge water.

Water sampling will continue on a regular basis, where it is safe to collect samples, and additional data will be included in the bi-weekly update reports.



#### 5. Corrective Measures for Reported Spills and Other Concerns

#### 5.1. 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 completed in accordance with the current Surface Water and Aquatic Systems Management Plan (dated March 2016) and are more fully detailed in Appendix D. In summary, the immediate actions undertaken included the following:

- Silt fence installation.
- Silt curtain installation.
- Flocculent installation and addition to the water flow.
- Check dam construction and operation.
- Gravity and flocculent assisted settling of solids from the water column.
- Redirection of sediment / turbid waters away from fish habitat by means of ditches, swales, and pumping.

In the case of the Milne Ore Pad drainage and collection system, construction of ditches commenced in late May. Ongoing sampling of the areas downstream of the Ore Pad stockpile indicated there was negligible impact from potential ore pad runoff. Prior to the construction of ditches around the ore pad, there were no visible flows discharging from the ore stockpile pad.

Impacted snow located along the Milne Port beach area, west of the ore loader area was excavated and stockpiled at a secure location away from fish habitat.

Attempts were made to clear snow under the bridges along the Tote Road, and the surface of the bridges were cleared of muddy material by means of manual methods.

#### 5.2. Detailed work completed by area of concern

Refer to Appendix D for detailed list of actions taken during the reporting period, photos, and supplementary materials for each sediment release and area of concern:

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

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

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

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

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

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

Appendix D.7: Milne Port Beach

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

#### 6. Next Steps

#### 6.1. Bi-weekly update reports

Bi-weekly update reports will be provided including any additional construction work completed and additional water sampling data. The next report will cover the period from June 18 to July 1, 2016.



#### 6.2. 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 will be substantially completed by July 17, 2016.

#### 6.3. 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.

#### 6.4. Long-term action plans

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

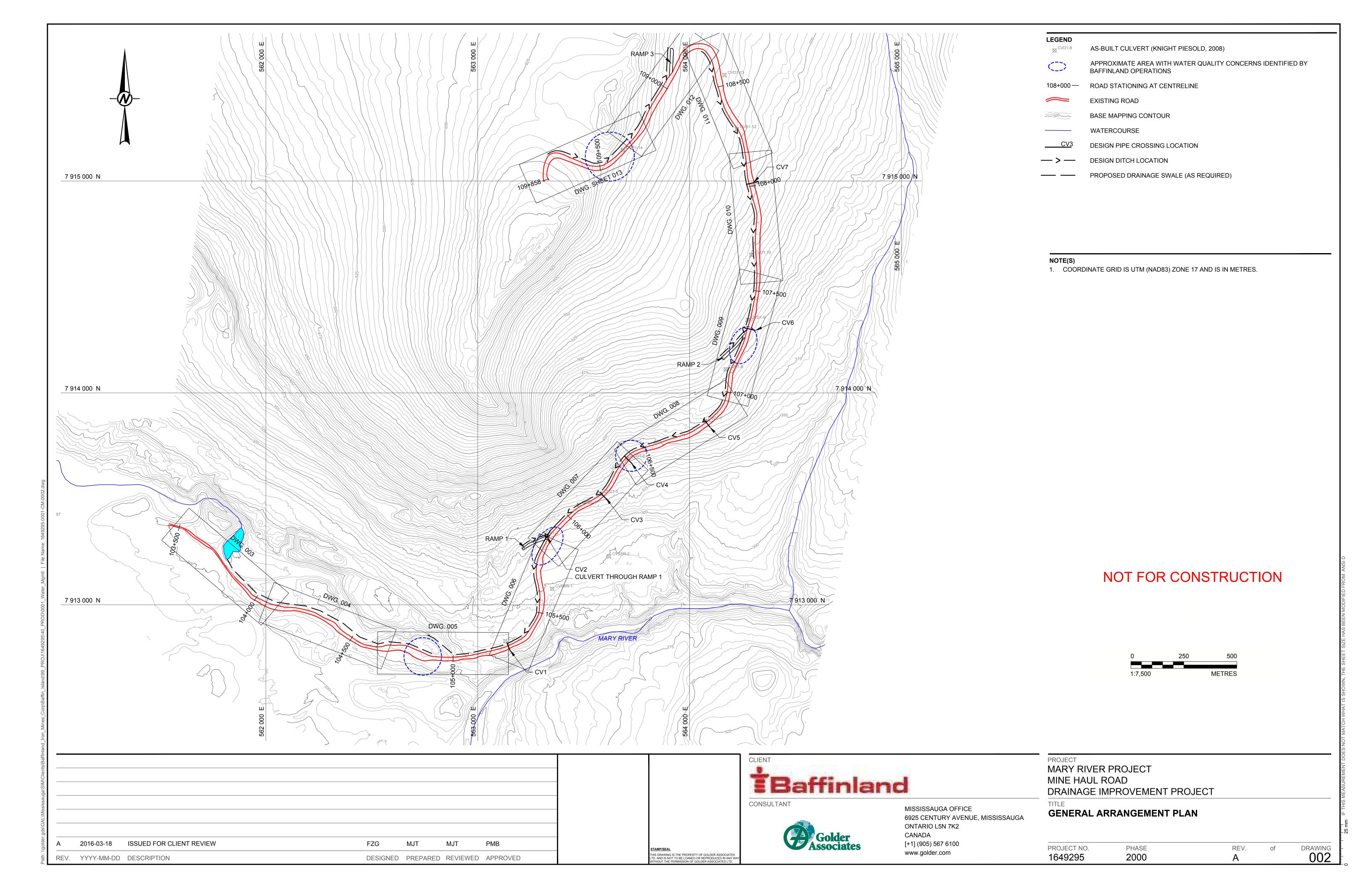
#### 6.5. Completion Report

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 OTHER MEASURES COMPLETED PRIOR TO FRESHET

Appendix A.1

**Mine Haul Road** 



Culvert CV-1 Construction and Installation Photos – May 2016



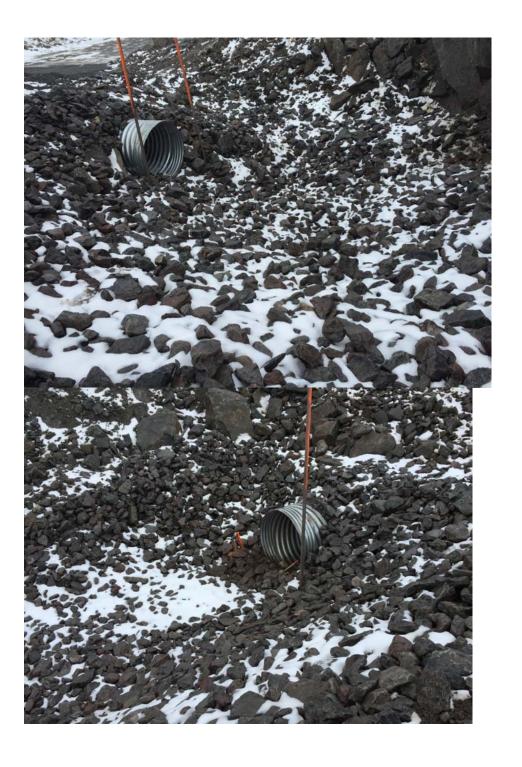


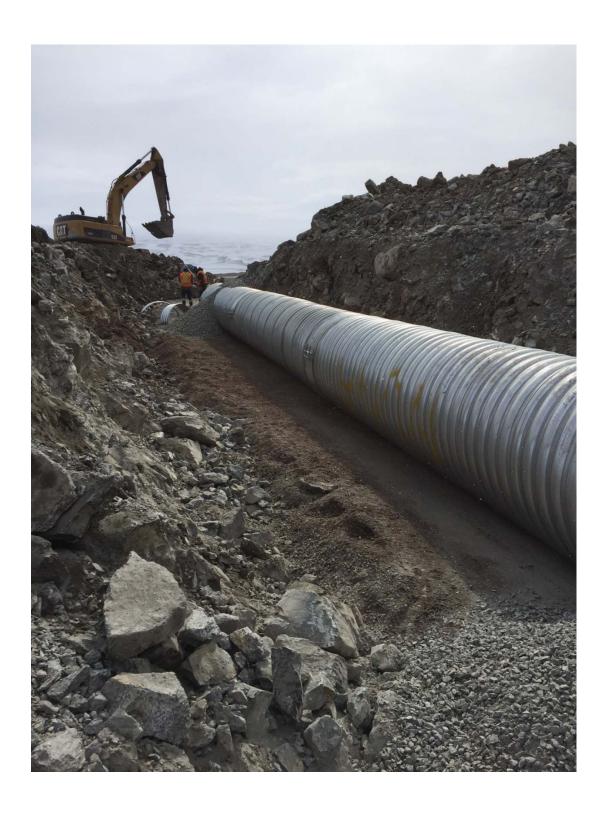
Culvert CV-1 Construction and Installation Photos – May 2016





Culvert CV-2 Construction and Installation Photos – May 2016





Mine Haul Road Ditching and Riprapping Photos – April 2016



Mine Haul Road Ditching and Riprapping Photos – April 2016



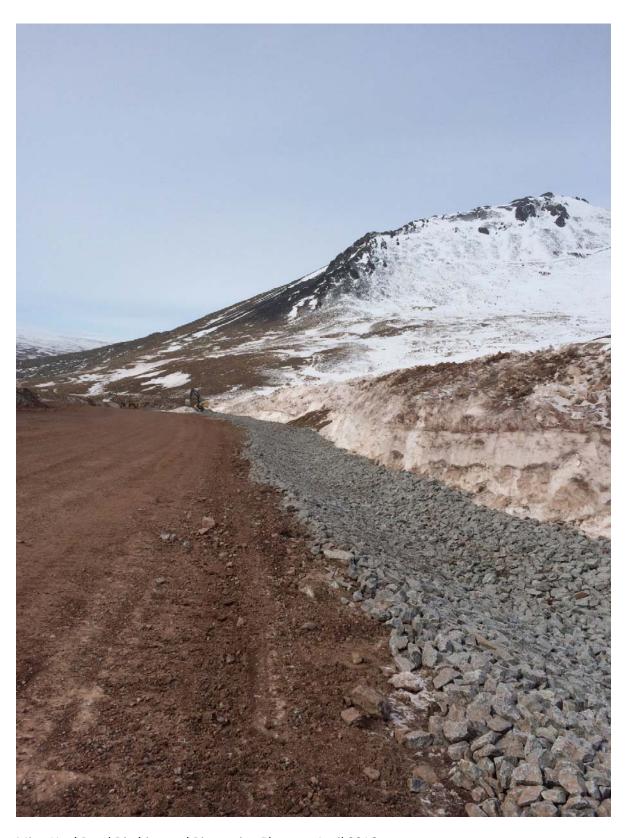


Mine Haul Road Ditching and Riprapping Photos – April 2016



Mine Haul Road Ditching and Riprapping Photos – April 2016





Mine Haul Road Ditching and Riprapping Photos – April 2016



Mine Haul Road Ditching and Riprapping Photos – April 2016

### **Appendix B**

### **NT-NU Spill Reports**

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





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

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OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

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▼ORIGINAL SPILL REPORT,

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

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REPORT DATE: MONTH - DAY - YEAR

05-21-2016

### NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

REPORT TIME

21:00 hrs

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

REPORT LINE USE ONLY

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K	outs were installed road surface. On the apparent that there sealed and road compotential flows to defloculants are being and will be discharge further information.	ne afternoon of I was risk to Mary ntact water has ownstream fish gutilized to assi ged back to the	May 19, disy River and been divention the habitat and street with this receiving of	scharg d Shearted to d wate s initia	jes of cont ardown tri three sele er bodies.	act wa butary ected I Check	ater increased /Lake. The be ocations that a dams, silt fer	and it b rm pund will min	ecame ch outs were imize
L		2AM-MRY1325 a		cident	t is being r	eporte	pdates will be ed as required	sedime provided by the	nt will settle ed with conditions of
	REPORTED TO SPILL LINE BY  Jim Millard	POSITION Env. Manager	nd as requ	cident	t is being r by subsect	eporte	pdates will be ed as required	sedime provided by the peries Ac	nt will settle ed with conditions of
M		POSITION	nd as requ	icident uired b	t is being r by subsect aland	eporte	pdates will be ed as required (4) of the Fish	sedime provided by the heries Ad	nt will settle ed with conditions of ct.
IVI	Jim Millard  ANY ALTERNATE CONTACT	POSITION Env. Manager POSITION	nd as requ	EMPLOYE Baffir EMPLOYE Baffir	t is being r by subsect nland anland	eporte	pdates will be ed as required (4) of the Fish  LOCATION CALLING FF  Mary River  ALTERNATE CONTACT	sedime provided by the heries Ad	nt will settle ed with conditions of ct.  ELEPHONE 647-253-0596  LTERNATE TELEPHONE
	Jim Millard  ANY ALTERNATE CONTACT	POSITION Env. Manager POSITION	nd as requ	EMPLOYE Baffir EMPLOYE Baffir	t is being r by subsect nland er nland	eporte	pdates will be ed as required (4) of the Fish  LOCATION CALLING FF  Mary River  ALTERNATE CONTACT	sedime provide by the peries Ac	nt will settle ed with conditions of ct.  ELEPHONE 647-253-0596  LTERNATE TELEPHONE
M N	Jim Millard  ANY ALTERNATE CONTACT  Allan Knight	POSITION Env. Manager POSITION Env. Superint	nd as requ	EMPLOYE Baffir EMPLOYE Baffir	t is being r by subsect nland er nland	eporte	pdates will be ed as required (4) of the Fish LOCATION CALLING FF Mary River  ALTERNATE CONTACT 902-403-1337	sedime provided by the peries Ad	nt will settle ed with conditions of ct.  ELEPHONE 647-253-0596 LITERNATE TELEPHONE 6016
N	Jim Millard  ANY ALTERNATE CONTACT  Allan Knight	POSITION Env. Manager POSITION Env. Superint	endent	EMPLOYE Baffir EMPLOYE Baffir EMPLOYE Baffir	t is being r by subsect nland ER nland	eporte	pdates will be ed as required (4) of the Fish LOCATION CALLING FF Mary River ALTERNATE CONTACT 902-403-1337 LOCATION CALLED	sedime provided by the peries Ac	nt will settle ed with conditions of ct.  ELEPHONE 647-253-0596  LTERNATE TELEPHONE 6016
N	ANY ALTERNATE CONTACT Allan Knight  RECEIVED AT SPILL LINE BY  AGENCY   EC   CCG   GNW	POSITION Env. Manager POSITION Env. Superint	endent	EMPLOYE Baffir EMPLOYE Baffir EMPLOYE Baffir EMPLOYE SIGNI	t is being r by subsect nland ER nland	eporte	pdates will be ed as required (4) of the Fish LOCATION CALLING FF Mary River ALTERNATE CONTACT 902-403-1337 LOCATION CALLED YELLOWKNIFE, NT	sedime provided by the peries Ac	nt will settle ed with conditions of ct.  ELEPHONE 647-253-0596  LTERNATE TELEPHONE 6016  EPORT LINE NUMBER 667) 920-8130
N LEAD	ANY ALTERNATE CONTACT Allan Knight  RECEIVED AT SPILL LINE BY  AGENCY   EC   CCG   GNW	POSITION Env. Manager POSITION Env. Superint POSITION STATION OPERATOR VT GN GILA GINAC	endent	EMPLOYE Baffir EMPLOYE Baffir EMPLOYE Baffir EMPLOYE SIGNI	t is being representations in the second sec	eporte	pdates will be ed as required (4) of the Fish LOCATION CALLING FF Mary River ALTERNATE CONTACT 902-403-1337 LOCATION CALLED YELLOWKNIFE, NT JOR □ UNKNOWN	sedime provided by the peries Ac	nt will settle ed with conditions of ct.  ELEPHONE 647-253-0596  LTERNATE TELEPHONE 6016  EPORT LINE NUMBER 667) 920-8130
N LEAD AGEN	ANY ALTERNATE CONTACT Allan Knight  RECEIVED AT SPILL LINE BY  D AGENCY DEC DCCG DGNW	POSITION Env. Manager POSITION Env. Superint POSITION STATION OPERATOR VT GN GILA GINAC	endent	EMPLOYE Baffir EMPLOYE Baffir EMPLOYE Baffir EMPLOYE SIGNI	t is being representations in the second sec	eporte	pdates will be ed as required (4) of the Fish LOCATION CALLING FF Mary River ALTERNATE CONTACT 902-403-1337 LOCATION CALLED YELLOWKNIFE, NT JOR □ UNKNOWN	sedime provided by the peries Ac	nt will settle ed with conditions of ct.  ELEPHONE 647-253-0596  LTERNATE TELEPHONE 6016  EPORT LINE NUMBER 667) 920-8130
N LEAD AGEN LEAD	ANY ALTERNATE CONTACT Allan Knight  RECEIVED AT SPILL LINE BY  D AGENCY   EC   CCG   GNW  NCY   COI D AGENCY	POSITION Env. Manager POSITION Env. Superint POSITION STATION OPERATOR VT GN GILA GINAC	endent	EMPLOYE Baffir EMPLOYE Baffir EMPLOYE Baffir EMPLOYE SIGNI	t is being representations in the second sec	eporte	pdates will be ed as required (4) of the Fish LOCATION CALLING FF Mary River ALTERNATE CONTACT 902-403-1337 LOCATION CALLED YELLOWKNIFE, NT JOR □ UNKNOWN	sedime provided by the peries Ac	nt will settle ed with conditions of ct.  ELEPHONE 647-253-0596  LTERNATE TELEPHONE 6016  EPORT LINE NUMBER 667) 920-8130
N LEAC AGEN LEAC FIRS	ANY ALTERNATE CONTACT Allan Knight  RECEIVED AT SPILL LINE BY  D AGENCY DEC DCG DGNW  NCY COL D AGENCY T SUPPORT AGENCY	POSITION Env. Manager POSITION Env. Superint POSITION STATION OPERATOR VT GN GILA GINAC	endent	EMPLOYE Baffir EMPLOYE Baffir EMPLOYE Baffir EMPLOYE SIGNI	t is being representations in the second sec	eporte	pdates will be ed as required (4) of the Fish LOCATION CALLING FF Mary River ALTERNATE CONTACT 902-403-1337 LOCATION CALLED YELLOWKNIFE, NT JOR □ UNKNOWN	sedime provided by the peries Ac	nt will settle ed with conditions of ct.  ELEPHONE 647-253-0596  LTERNATE TELEPHONE 6016  EPORT LINE NUMBER 667) 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 <b>05-31-2016</b>	-YEAR		EPORT TII		-	ORIGINAL SPILL REF	PORT,	REPORT NUMBER
D	OCCURRENCE DATE: MONTH		C	CCURREN			OR ] UPDATE # TO THE ORIGINAL SPIL	L DEDORT	16 - 198
В	unknown - within		5 I	unkno	wn		O THE ORIGINAL SPIL	L REPORT	
С	LAND USE PERMIT NUMBER ( IOL - Commercial			I		CE NUMBER ( Y1325 T	if APPLICABLE)  'ype "A"		
7	GEOGRAPHIC PLACE NAME O	OR DISTANCE AND DIRECTION	N FROM NAMED LO	CATION	REGION				
D	Mary River Mine	Site, Baffin Island	, NU	1.	□NWT	X NUNAVUT	☐ ADJACENT JUI	RISDICTION	OR OCEAN
Е	LATITUDE DEGREES 71	MINUTES 19	SECONDS 46		ONGITUDE EGREES 7	79	MINUTES 22	SI	ECONDS 41
_	RESPONSIBLE PARTY OR VES	SSEL NAME	RESPONSIBLE PA	RTY ADDF	RESS OR OFF	FICE LOCATIO			
F	Baffinland Iron M	<del>_</del>					00, Oakville, C	ON L6H	0C3
G	ANY CONTRACTOR INVOLVED  N/A	)	N/A	DRESS O	R OFFICE LO	CAHON			
	PRODUCT SPILLED  Sediment		QUANTITY IN LITE Unquantif	-,			U.N. NUMBER		
Н	SECOND PRODUCT SPILLED	(IF APPLICABLE)	QUANTITY IN LITE		•		S U.N. NUMBER		
	N/A		44m3				N/A		
ı	SPILL SOURCE steep sandy stream	am bank	SPILL CAUSE  warming to	emper	atures		AREA OF CONTAIN  110m2	MINATION IN	SQUARE METRES
_	FACTORS AFFECTING SPILL (		DESCRIBE ANY A			)		SONS, PRO	PERTY OR EQUIPMENT
J	poor access  ADDITIONAL INFORMATION, O		N/A				N/A		
K	sediments was di investigation, the may have been ca material that part the sediment dep stabilization of th and redirected to mobile in water. will be submitted	source of the secaused by water drially encroached cosit. A schedule e stream embank an area that is maked follow-up repor	diment was fraining from on the stream is being deverse ment at that ore stable.	from a the ai m. One elope locati he ma	stream rstrip. To ce disco d for the on. The terial is	bank fa The ever overed, s e remove water v coarse	ilure. The em nt resulted in silt fences we al of the sedir vill be reroute sand and doe	bankmosandy of sandy of the erection of the er	ent failure deposit of ted around id this location appear to be
L	REPORTED TO SPILL LINE BY  Jim Millard	POSITION  Env. Manage		MPLOYER Baffinl			OCATION CALLING FF		ELEPHONE <b>647-253-0596</b>
M	ANY ALTERNATE CONTACT	POSITION Env. Superint	E	MPLOYER Baffinl			LITERNATE CONTACT 902-403-1337	<i>A</i>	LTERNATE TELEPHONE 6016
•••	Allan Knight	Liiv. Superiii				L	OCATION		
_	RECEIVED AT SPILL LINE BY	POSITION	REPORT LINE	MPLOYER			OCATION CALLED	-	REPORT LINE NUMBER
Ν	TILOEIVED AT SPILL LINE BY	STATION OPERATOR	-	.v.ii EOTEN			'ELLOWKNIFE, NT		867) 920-8130
LEAD	L DAGENCY□EC □CCG □C		C □ NEB □ TC	SIGNIFI	CANCE   M		OR UNKNOWN		JS □ OPEN □ CLOSED
AGEI	NCY	CONTACT NAME		CONTAC	CT TIME		REMARKS	1	
LEAD	) AGENCY								
FIRS	T SUPPORT AGENCY								
l									
SEC	OND 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 <b>06-02-2016</b>	– YEAR		REPORT TII	IRS	XORIGINAL SPILL REPO	PRT,	REPORT NUMBER
_	OCCURRENCE DATE: MONTH	– DAY – YEAR		OCCURREN	NCE TIME	OR □ UPDATE#		16 - 202
В	05-31-2016			2100 F	IRS	TO THE ORIGINAL SPILL	REPORT	10 =0=
С	IOL - Commercial		I		ATER LICENCE NUMBER 2AM-MRY1325	,		
D	GEOGRAPHIC PLACE NAME OF MARY River Mine S			OCATION	REGION  NWT XNUNAVU	T □ ADJACENT JURIS	SDICTION (	OR OCEAN
Е	LATITUDE			LC	ONGITUDE			
	DEGREES	MINUTES	SECONDS		EGREES	MINUTES	SE	CONDS
F	RESPONSIBLE PARTY OR VERBARRING AND MINISTRA MIN	ines Corp.			ress or office location and East, Sutie 3		N L6H	0C3
G	ANY CONTRACTOR INVOLVED  N/A	)	N/A	DDRESS O	R OFFICE LOCATION			
	PRODUCT SPILLED  Sediment			,	GRAMS OR CUBIC METRE			
Н	SECOND PRODUCT SPILLED	(IE ADDI ICADI E)	-		present time GRAMS OR CUBIC METRE	N/A S U.N. NUMBER		
	N/A	(IF APPLICABLE)	N/A	HES, KILOC	SHAMS OH CUBIC METHE	N/A		
I	SPILL SOURCE Freshet erosion		SPILL CAUSE  warming t	temper	atures	AREA OF CONTAMIN	IATION IN	SQUARE METRES
J	FACTORS AFFECTING SPILL O	OR RECOVERY	DESCRIBE ANY A	ASSISTANC	E REQUIRED	HAZARDS TO PERSO	ONS, 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 to een deployed as moved under the	7, BG-17 at known are are no find to move into appropriate as supervision	m 90, a ish pre the sti Sedin n of En	and BG-29 at kn sent at these lo ream. In the me nents in culvert vironment staff	n 85. The source cations because antime silt fen outlet basins were within the nex	ce of the se flow ces an will be the seven	ne sediment vs are very d in-ditch carefully val days. In
L	REPORTED TO SPILL LINE BY  Jim Millard	POSITION Env. Manage		EMPLOYER Baffinl		LOCATION CALLING FRO		ELEPHONE 647-253-0596
M	ANY ALTERNATE CONTACT  Allan Knight	POSITION Env. Superir	E	EMPLOYER Baffinl	}	ALTERNATE CONTACT 902-403-1337	A	LTERNATE TELEPHONE
		-	REPORT LINE	USE ONL	Y			
N	RECEIVED AT SPILL LINE BY	POSITION	E	EMPLOYER	R	LOCATION CALLED	R	
II V		STATION OPERATOR				YELLOWKNIFE, NT	(8	EPORT LINE NUMBER
LEA	AGENCY DEC DCCG DC	GNWT □ GN □ ILA □ INA	C □ NEB □ TC	SIGNIFI			0 - 4 - 1	EPORT LINE NUMBER 67) 920-8130
AGE					ICANCE   MINOR   MA	OR UNKNOWN	-ILE STATU	
	NCY	CONTACT NAME		CONTA	ICANCE   MINOR   MA	REMARKS	-ILE STATU	67) 920-8130
LEA	NCY D AGENCY	CONTACT NAME		CONTAC			-ILE STATU	67) 920-8130
H		CONTACT NAME		CONTAC			-ILE STATU	67) 920-8130
FIRS	D AGENCY	CONTACT NAME		CONTAC			-ILE STATU	67) 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	06-19-2016	TEAN		2200 H		□ C OR	RIGINAL SPILL REPO	ORT,	REPORT NUMBER
В	OCCURRENCE DATE: MONTH – 06-18-2016	DAY – YEAR		OCCURREN		XU	IPDATE # 1 THE ORIGINAL SPILL	REPORT	16 - 202
	LAND USE PERMIT NUMBER (IF	APPLICABLE)			ATER LICENCE NUM	IBER (IF /	APPI ICABI F)		
С	IOL - Commercial I	,	I		2AM-MRY132	,	,		
D	GEOGRAPHIC PLACE NAME OF Mary River Mine S			OCATION	REGION	NAVUT	☐ ADJACENT JURI	ISDICTION (	OR OCEAN
Е	LATITUDE			LC	ONGITUDE				
		MINUTES	SECONDS		EGREES		MINUTES	SE	CONDS
F	RESPONSIBLE PARTY OR VESS Baffinland Iron Mir				ress or office Lo ad East, Suti		, Oakville, O	N L6H	0C3
G	ANY CONTRACTOR INVOLVED N/A		CONTRACTOR A	ADDRESS O	R OFFICE LOCATION	1			
	PRODUCT SPILLED			,	GRAMS OR CUBIC M		U.N. NUMBER		
Н	Sediment		•		present time		N/A		
٠.	SECOND PRODUCT SPILLED (IF N/A	F APPLICABLE)	QUANTITY IN LI	TRES, KILOO	GRAMS OR CUBIC M	ETRES	U.N. NUMBER		
I	SPILL SOURCE Freshet melting sn	ıowpack	SPILL CAUSE warming	temper	atures		AREA OF CONTAMII	NATION IN S	SQUARE METRES
ī	FACTORS AFFECTING SPILL OF N/A	RRECOVERY	DESCRIBE ANY	' ASSISTANC	E REQUIRED		HAZARDS TO PERS	SONS, PROF	PERTY OR EQUIPMENT
J	ADDITIONAL INFORMATION CO	MMENTS, ACTIONS PROP	POSED OR TAKEN T	O CONTAIN,	RECOVER OR DISPO	OSE OF S	SPILLED PRODUCT A	ND CONTAI	MINATED MATERIALS
J	During an environi where there was to Road. These locat	mental inspection orbid water and tions were BG-3	sediment p 1 at km 82 a	resent i	near stream -28 at km 86	cross .3. Th	8, two locationsings, downs	stream appear	of Tote 's to be
	During an environ where there was to Road. These locat generated by the n habitat, although f	mental inspection in the second tions were BG-3 melting snow particular from these controlled from the second in for stream But the second in	sediment p 1 at km 82 a ck adjacent locations is entering th G-31 and b ent and turb	resent i and BG t to the to Mur le lakes y silt fe id wate	near stream -28 at km 86 road. The st iel Lake (BG at these loc nce and silt r at stream c	cross .3. The reams -31) a cation curta crossi	8, two locations ings, downs the sediment is are not expend David Lass by the constitution at BG-28.	stream appear bected ke (BG struction Previo at km 9	of Tote rs to be to be fish -28). The on of check ous 97, BG-17 at
K	During an environing where there was to Road. These locate generated by the material habitat, although from sediment is being dams and silt curtal locations where the	mental inspection in the second tions were BG-3 melting snow particular from these controlled from the second in for stream But the second in	sediment p at km 82 ack adjacent locations is entering th G-31 and b ent and turb ow running	resent i and BG t to the to Mur le lakes y silt fe id wate	near stream -28 at km 86 road. The st iel Lake (BG at these loc nce and silt r at stream o nd sediment	cross .3. The reams (-31) a cation curta crossicat cul	8, two locations ings, downs the sediment is are not expend David Lass by the constitution at BG-28.	stream appear bected f ke (BG struction Previous at km 9 was re	of Tote rs to be to be fish -28). The on of check ous 97, BG-17 at
K	During an environing where there was to Road. These locate generated by the material habitat, although from the sediment is being dams and silt curtar locations where the km 90, and BG-29 and BG-29 and BG-29 are reported to spill line by	mental inspection urbid water and tions were BG-3 nelting snow particular from these controlled from the ain for stream Barere was sedimental than 85, are not position	sediment p at km 82 ack adjacent locations is entering th GG-31 and b ent and turb ow running	resent i and BG t to the to Mur ie lakes y silt fe id wate clear ar	near stream -28 at km 86 road. The st iel Lake (BG at these loc nce and silt r at stream o nd sediment	cross .3. The reams -31) a cation curta crossi at culta	8, two locations ings, downs in e sediment is are not expand David Lass by the consistency of the constant of	stream appear bected ke (BG structio Previo at km 9 was re	of Tote rs to be to be fish 1-28). The on of check ous 07, BG-17 at moved.
K	During an environing where there was to Road. These located generated by the inhabitat, although fisediment is being dams and silt curtal locations where the km 90, and BG-29 a	mental inspection urbid water and tions were BG-3 nelting snow pareling snow pareling snow from these controlled from ain for stream Briere was sedimentated at km 85, are not position Env. Manage	sediment p at km 82 ack adjacent locations is entering th GG-31 and b ent and turb ow running	resent in and BG to the second	near stream -28 at km 86 road. The st iel Lake (BG at these loc nce and silt r at stream o nd sediment	cross .3. The reams -31) a cation curta crossi at culta	8, two locationsings, downsome sediment is are not expend David Lass by the consin at BG-28.  Ings CV-223 is livert outlets in at BG-28.  CATION CALLING FROM THE CATION CALLI	stream appear bected ke (BG structio Previo at km 9 was re	of Tote rs to be to be fish 1-28). The on of check ous 07, BG-17 at moved.
K L M	During an environing where there was to Road. These located generated by the inhabitat, although fisediment is being dams and silt curtal locations where the km 90, and BG-29 a	mental inspection urbid water and tions were BG-3 nelting snow pareling snow pareling snow from these controlled from ain for stream Briere was sedimentated at km 85, are not position Env. Manage	sediment p 11 at km 82 a 1ck adjacent locations is entering th 3G-31 and b ent and turb ow running o	resent in and BG to the second	near stream -28 at km 86 road. The striel Lake (BG) at these loce and silter at stream of the sediment  aland aland	cross .3. The reams -31) and actions curtal crossing at cults  Loc M ALT 90 LOC	8, two locations ings, downs in e sediment is are not expand David Lass by the consistency of the constant of	stream appear bected ke (BG struction Previous at km S was re	of Tote rs to be to be fish 1-28). The on of check ous 07, BG-17 at moved.
K L M	During an environing where there was to Road. These locate generated by the inhabitat, although for sediment is being dams and silt curtar locations where the km 90, and BG-29	mental inspection urbid water and tions were BG-3 nelting snow pareling snow pareling from these controlled from ain for stream Bare was sedimentated that km 85, are not be position at km 85.	sediment p 11 at km 82 a 1ck adjacent locations is entering th 3G-31 and b ent and turb ow running o	resent in and BG to the second	near stream -28 at km 86 road. The striel Lake (BG) at these loce and silter at stream of the sediment  aland aland	cross .3. The reams -31) a sation curta crossi at culta culta crossi at culta con control crossi at culta crossi c	8, two locationsings, downsing sediment is are not expand David Lass by the consin at BG-28. Ings CV-223 is livert outlets.  CATION CALLING FROM A PROPERTY RIVER  ERNATE CONTACT D2-403-1337	stream appear pected f ke (BG struction Previous t km S was re	of Tote rs to be to be fish 3-28). The on of check ous 07, BG-17 at moved.  ELEPHONE 647-253-0596  LTERNATE TELEPHONE 6016
K L M	During an environing where there was to Road. These locate generated by the inhabitat, although for sediment is being dams and silt curtar locations where the km 90, and BG-29	mental inspection in the position in the posit	sediment p 1 at km 82 a 1 ck adjacent locations is 1 entering th 3G-31 and b 2 ent and turb bw running  er  ntendent  REPORT LIN	resent in and BG to the sto Murie lakes y silt feid wate clear are EMPLOYER Baffinle USE ONLE	near stream -28 at km 86 road. The striel Lake (BG) at these loce and silter at stream of the sediment  aland aland	LOC M	8, two locationsings, downsine sediment is are not expand David Lass by the consin at BG-28. Ings CV-223 Idvert outlets in the control of the	stream appear pected in the control of the control	of Tote rs to be to be fish 1-28). The on of check ous 07, BG-17 at moved.  ELEPHONE 647-253-0596  LITERNATE TELEPHONE 6016
K L M	During an environing where there was to Road. These located generated by the inhabitat, although for sediment is being dams and silt curtary locations where the km 90, and BG-29 and BG-2	mental inspection in the position in the posit	sediment p 1 at km 82 a 1 ck adjacent locations is 1 entering th 3G-31 and b 2 ent and turb bw running  er  ntendent  REPORT LIN	resent in and BG to the sto Murie lakes y silt feid wate clear are EMPLOYER Baffinl EMPLOYER Baffinl EMPLOYER SIGNIFICATION SIGN	near stream -28 at km 86 road. The striel Lake (BG) at these loce and silter at stream of the sediment  aland y	cross .3. The reams -31) as ations curta crossis at cultant cu	8, two locationsings, downsine sediment is are not expand David Lass by the consin at BG-28. Ings CV-223 Idvert outlets in the control of the	stream appear pected in the control of the control	of Tote rs to be to be fish 3-28). The on of check ous 37, BG-17 at moved.  ELEPHONE 647-253-0596  LITERNATE TELEPHONE 6016  EPORT LINE NUMBER 367) 920-8130
K L M LEAL	During an environing where there was to Road. These located generated by the inhabitat, although for sediment is being dams and silt curtary locations where the km 90, and BG-29 and BG-2	mental inspection in the second in for stream Bere was sedimentated in the second in for stream Bere was sedimentated in the second in the sec	sediment p 1 at km 82 a 1 ck adjacent locations is 1 entering th 3G-31 and b 2 ent and turb bw running  er  ntendent  REPORT LIN	resent in and BG to the sto Murie lakes y silt feid wate clear are EMPLOYER Baffinl EMPLOYER Baffinl EMPLOYER SIGNIFICATION SIGN	near stream -28 at km 86 road. The striel Lake (BG at these loc nce and silt r at stream cond sediment	cross .3. The reams -31) as ations curta crossis at cultant cu	8, two locationsings, downsine sediment is are not expand David Lass by the consin at BG-28. Ings CV-223 is livert outlets ary River learner contact of the	stream appear pected in the control of the control	of Tote rs to be to be fish 3-28). The on of check ous 37, BG-17 at moved.  ELEPHONE 647-253-0596  LITERNATE TELEPHONE 6016  EPORT LINE NUMBER 367) 920-8130
K L M LEAL	During an environing where there was to Road. These located generated by the inhabitat, although for sediment is being dams and silt curtar locations where the km 90, and BG-29	mental inspection in the second in for stream Bere was sedimentated in the second in for stream Bere was sedimentated in the second in the sec	sediment p 1 at km 82 a 1 ck adjacent locations is 1 entering th 3G-31 and b 2 ent and turb bw running  er  ntendent  REPORT LIN	resent in and BG to the sto Murie lakes y silt feid wate clear are EMPLOYER Baffinl EMPLOYER Baffinl EMPLOYER SIGNIFICATION SIGN	near stream -28 at km 86 road. The striel Lake (BG at these loc nce and silt r at stream cond sediment	cross .3. The reams -31) as ations curta crossis at cultant cu	8, two locationsings, downsine sediment is are not expand David Lass by the consin at BG-28. Ings CV-223 is livert outlets ary River learner contact of the	stream appear pected in the control of the control	of Tote rs to be to be fish 3-28). The on of check ous 37, BG-17 at moved.  ELEPHONE 647-253-0596  LITERNATE TELEPHONE 6016  EPORT LINE NUMBER 367) 920-8130
K  L  M  LEAL  AGEI  LEAL  FIRS	During an environing where there was to Road. These located generated by the inhabitat, although for sediment is being dams and silt curtar locations where the km 90, and BG-29	mental inspection in the second in for stream Bere was sedimentated in the second in for stream Bere was sedimentated in the second in the sec	sediment p 1 at km 82 a 1 ck adjacent locations is 1 entering th 3G-31 and b 2 ent and turb bw running  er  ntendent  REPORT LIN	resent in and BG to the sto Murie lakes y silt feid wate clear are EMPLOYER Baffinl EMPLOYER Baffinl EMPLOYER SIGNIFICATION SIGN	near stream -28 at km 86 road. The striel Lake (BG at these loc nce and silt r at stream cond sediment	cross .3. The reams -31) as ations curta crossis at cultant cu	8, two locationsings, downsine sediment is are not expand David Lass by the consin at BG-28. Ings CV-223 is livert outlets ary River learner contact of the	stream appear pected in the control of the control	of Tote rs to be to be fish 3-28). The on of check ous 37, BG-17 at moved.  ELEPHONE 647-253-0596  LITERNATE TELEPHONE 6016  EPORT LINE NUMBER 367) 920-8130