



2016 QIA and NWB Annual Report for Operations

March 31, 2017

APPENDIX D.7.7 FOLLOW-UP SPILL REPORTS



February 05, 2016

Resource Management Officer Nunavut Field Operations Aboriginal Affairs and Northern Development Canada Box 100 Igaluit, NU X0A 0H0 Justin Hack Justin. Hack@aandc-aadnc.gc.ca

Director, Major Projects Qikiqtani Inuit Association P.O. Box 219 Igaluit, NU X0A 0H0

Re: Follow-up to Spill #16-006. Reported on Jan 6th, 2016 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

At approximately 07:30 on January 06, 2016, the crusher operator was starting up the equipment on the B-Spread Crusher at the Mine Site Crusher Pad and the belt gave way and broke. This resulted in the belt coming in contact with the lube oil return line on the Tertiary cone, causing the line to release lube oil to the adjacent area. The volume of the spill was approximately 120L covering an approximate area of 4 m². The spill location is > 100 m from the nearest drainage (non-fisheries habitat) and all water bodies are currently frozen.

Immediate and Follow-Up Action:

The Crusher Supervisor and Environment Department were notified immediately upon spill discovery. The lube oil was contained and cleaned up with spill pads and the contaminated material was placed in Quatrex bags. The contaminated material from the impacted area was removed for disposal in the Landfarm Facility at Milne Port.

Recommendations:

The belt broke due to a catastrophic failure. Preventative maintenance and inspection programs for the various components of the crusher are in the process of being fully implemented.

Current Status:

The Crusher lube oil return line was repaired and the crusher is currently operational. The affected area has been cleaned up and the contaminated material disposed of.

Should you require further information or clarification on the above noted spill, please feel free to contact Allan Knight at (647) 253-0596 x6010 or Jim Millard at (902) 403-1337.

Prepared By: Reviewed by:

Bell Bourses

Bill Bowden Jim Millard

Environmental Coordinator Environmental Manager

Attach: Photos, Map, NT-NU Spill Report

Erik Madsen, Oliver Curran, Bernard Laflamme, Tony Woodfine, Bikash Paul, Allan Knight, CC. (Baffinland), Erik Allain, Scott Burgess (AANDC).



Photo 1 – Spill Location Pre Clean up



Photo 2 – Spill Location Post Clean up

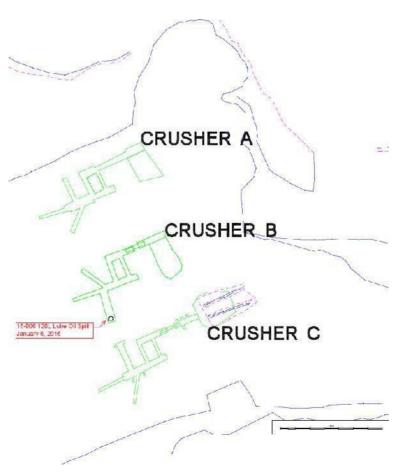


Figure 1 - Spill Location



NT-NU 24-HOUR SPILL REPORT LINE

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

REP										
Α	Jan 06, 2015	/-YEA	R		21:30	TME		CORIGINAL SPILE OR	L REPORT,	REPORT NUMBER
В	OCCURRENCE DATE: MONTH	I – DAY	- YEAR		07:30			X UPDATE # 1 TO THE ORIGINAL	SPILL REPORT	16 - 006
	LAND USE PERMIT NUMBER IOL - Commercia			3C301	1	WATER LICE		L R (IF APPLICABLE) Type "A"		
D	GEOGRAPHIC PLACE NAME (Mary River Projection)				OCATION	REGION			T JURISDICTION	N OR OCEAN
Е	LATITUDE DEGREES 71	MINU	пез 18	SECONDS 40		LONGITUDE DEGREES		MINUTES	16 s	SECONDS 27
F	RESPONSIBLE PARTY OR VE Baffinland Iron M			RESPONSIBLE 2275 Mic				ion 800, Oakville	e, ON L6H	I 0C3
G	NO NO	D		NA CONTRACTOR	ADDRESS (OR OFFICE I	LOCATION			
П	PRODUCT SPILLED Lube Oil			120L				NA	_	
''	SECOND PRODUCT SPILLED	(IF API	PLICABLE)	NA QUANTITY IN L	ITRES, KILO	OGRAMS OR	CUBIC METR	NA		
I	Oil return line			Drive bel				4m2		SQUARE METRES
\neg	FACTORS AFFECTING SPILL Frozen ground co	ondi	tions	NA DESCRIBE ANY				None.		OPERTY OR EQUIPMENT
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Figure 2 – NT-NU Spill Report



March 27, 2016

Resource Management Officer Nunavut Field Operations Aboriginal Affairs and Northern Development Canada Box 100 Iqaluit, NU X0A 0H0 Justin Hack Justin.Hack@aandc-aadnc.gc.ca Director, Major Projects Qikiqtani Inuit Association P.O. Box 219 Iqaluit, NU X0A 0H0

Re: Follow-up to Spill #16-056, Reported on Feb 26th, 2016 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On February 26, 2016 at 5:30 HRS, a worker discovered that the cube van (truck) had leaked approximately 120 litres of diesel onto the ground underneath the vehicle, affecting an area of approximately 10 m2. Upon further inspection, it was determined that the vehicle's fuel line had become damaged and had leaked the contents of the vehicle's fuel tank onto the ground. The location of the spill was greater than 200 meters away from the nearest water body, Milne Inlet, which is currently frozen.

Immediate and Follow-Up Action:

The worker immediately placed spill pads underneath the vehicle to absorb any free product and notified the Environment Department and his Supervisor. Contaminated snow and soil were removed and transported to the Milne Port Landfarm Facility for treatment.

Recommendations:

Routine maintenance will continue to be conducted on all onsite mobile equipment. All mobile equipment operators will continue to conduct pre-operation checks every shift to confirm their equipment has no leaks and is in good working order.

Current Status:

The cube van (truck) fuel line has been repaired and is back in operation. The affected area has been cleaned up and the contaminated snow and soil have been taken to the Milne Port Landfarm Facility for treatment.

Should you require further information or clarification on the above noted spill, please feel free to contact Allan Knight at (647) 253-0596 x6010 or Jim Millard at (902) 403-1337.

Prepared By:

Andrew Vermeer Environmental Coordinator Jim Millard

Reviewed by:

Environmental Manager

Attach: Photos, Map, NT-NU Spill Report

cc. Oliver Curran, Bernard Laflamme, Tony Woodfine, Bikash Paul, Allan Knight, William Bowden, Lea Willemse, Jennifer St. Paul-Butler (Baffinland), Erik Allain, Scott Burgess (AANDC)





Photo 1 - Cube Van Diesel Spill - 120 L



Photo 2 - Spill Cleanup





Photo 3 - Spill Location after Cleanup

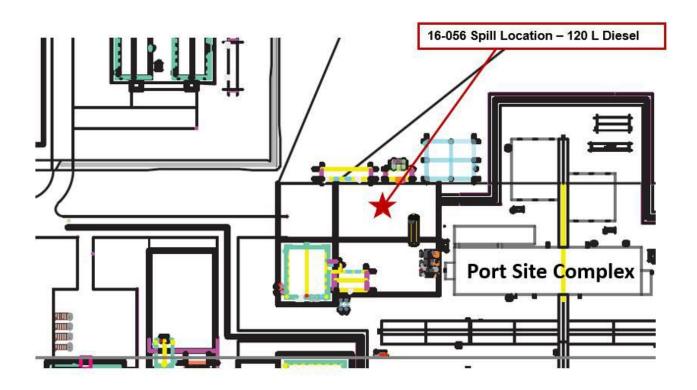


Figure 1 – Spill Location





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- 02-26-2016	-YEAR		20:00 F		X ORIGINAL SPILL REPO	ORT,	REPORT NUMBER								
В	OCCURRENCE DATE: MONTH- 02-26-2016	- DAY - YEAR		OCCURREN		UPDATE # TO THE ORIGINAL SPILL	REPORT	16 - 056								
С	LAND USE PERMIT NUMBER (I		301	WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MRY1325 Type "A"												
D	GEOGRAPHIC PLACE NAME O Mary River Projec			CATION	REGION	,,										
	LATITUDE	t Willie Fort, Dan	iii isiailu, iv		NWT X NUNAVU	T DADJACENT JURI	SDICTION	OR OCEAN								
Е	DEGREES 71	MINUTES 53	SECONDS 05	DE	GREES 80	MINUTES 53	SE	CONDS 17								
F	RESPONSIBLE PARTY OR VES Baffinland Iron Mi				ess or office locati d East, Suite 3	^{อง} 00, Oakville, Ol	N L6H	0C3								
G	N/A			DDRESS OF	R OFFICE LOCATION											
<u> </u>	PRODUCT SPILLED		N/A	nce vii oc	RAMS OR CUBIC METRE	S U.N. NUMBER										
ш	Arctic Diesel (P50)	120 L			N/A										
П	SECOND PRODUCT SPILLED (IF APPLICABLE)	QUANTITY IN LITE	RES, KILOG	RAMS OR CUBIC METRE											
	SPILL SOURCE		N/A SPILL CAUSE			N/A AREA OF CONTAMI	NATION IN	SOLINDE METDES								
I	Mobile Equip - Cu		Damaged			10 m2										
J	Frozen gravel gro	und surface	N/A			None										
K	of diesel onto the worker immediate the Environment I had become dama Contaminated sno treatment. The loo Milne Inlet, which	ground undernea ely placed spill pa Department. Upor aged and had leal ow and soil were cation of the spill is currently froze	ath the vehice of the control of the	cle, afforath the spection tents of transfer than a stigation	ecting an area e vehicle to abs n, it was detern of the vehicle's sported to the 200 meters awa on is currently	of approximate orb any free proined that the value tank onto the free proined that the value from the near the	ely 10 n roduct vehicle the gro dfarm f	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS On February 26, 2016, a worker discovered that the cube van (truck) had leaked approximately 120 L of diesel onto the ground underneath the vehicle, affecting an area of approximately 10 m2. The worker immediately placed spill pads underneath the vehicle to absorb any free product and notified the Environment Department. Upon further inspection, it was determined that the vehicle's fuel line had become damaged and had leaked the contents of the vehicle's fuel tank onto the ground.								
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_	Jim Millard			MPLOYER		LOCATION CALLING FRO		ELEPHONE								
		Env. Manager	r	Baffinl	and	Mine Site ext 6	6016	647-253-0596								
M	ANY ALTERNATE CONTACT Allan Knight		r I		and		6016 (
M	ANY ALTERNATE CONTACT	Env. Manager POSITION Env. Superint	r I	Baffinla MPLOYER Baffinla	and	Mine Site ext 6 ALTERNATE CONTACT Mine Site	6016 (647-253-0596 LITERNATE TELEPHONE								
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PAGE 1 OF

Figure 2 – NT-NU Spill Report



March 31, 2016

Resource Management Officer Nunavut Field Operations Aboriginal Affairs and Northern Development Canada Box 100 Iqaluit, NU X0A 0H0 Justin Hack Justin.Hack@aandc-aadnc.gc.ca Acting Manager, Major Projects Qikiqtani Inuit Association P.O. Box 219 Iqaluit, NU X0A 0H0

Re: Follow-up to Spill #16-063, Reported on March 1st, 2016
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

At approximately 02:00 on March 01, 2016, the crusher operator for A-Spread noticed a spill under the cone crusher. A lubricant hose came lose and discharged a volume of lube oil onto the crusher pad surface. The operator shut down the crusher immediately and initiated notification and clean-up measures. The volume of the spill was approximately 300L covering an approximate area of 5 m². The spill location is > 100 m from the nearest drainage (non-fisheries habitat) and all water bodies are currently frozen and ice covered.

Immediate and Follow-Up Action:

The Crusher Supervisor and Environment Department were notified immediately upon spill discovery. The lube oil was contained and cleaned up with spill pads. The spill area was then excavated and the contaminated material was placed in Quatrex bags. The contaminated material from the impacted area was removed for disposal in the Landfarm Facility at Milne Port.

Recommendations:

Preventative maintenance inspection programs for the various components of the crusher are in the process of being fully implemented.

Current Status:

The lubricant oil hose was tightened and clamps replaced. Crusher A is currently operational. The affected area has been cleaned up and the contaminated material disposed of.

Should you require further information or clarification on the above noted spill, please feel free to contact Allan Knight at (647) 253-0596 x6016 or Jim Millard at (902) 403-1337.

Prepared By: Reviewed by:

William Bowden Jim Millard

Environmental Coordinator Environmental Manager

Attach: Photos, Map, NT-NU Spill Report

cc. Erik Madsen, Bernard Laflamme, Bikash Paul, Allan Knight, (Baffinland), Erik Allain, Scott Burgess (AANDC).





Photo 1 – Spill Location

Photo 2 – Location of Hose Failure

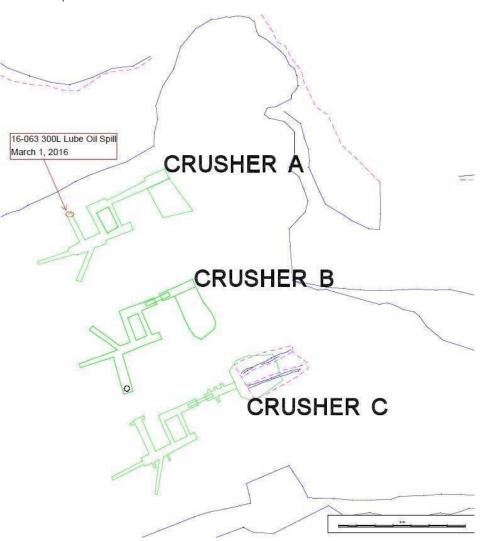


Figure 1 - Spill Location



NT-NU 24-HOUR SPILL REPORT LINE

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

Α	Mar 01, 2016			19:00			CORIGINAL SPILL R	EPORT,	REPORT NUMBER
В	Mar 01, 2016		(HRS		UPDATE # TO THE ORIGINAL SE	PILL REPORT	16 - 063
С	LAND USE PERMIT NUMBER (I IOL - Commercial	Lease No.: Q13C3					(IF APPLICABLE) Type "A"		-
D	GEOGRAPHIC PLACE NAME O Mary River Projec			J .	REGION NWT	XNUNAVL	IT 🗆 ADJACENT J	URISDICTION	OR OCEAN
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F	RESPONSIBLE PARTY OR VES Baffinland Iron Mi	l	dle Ro	ad East	Suite 3	^{on} <mark>00, Oakville,</mark>	ON L6H	0C3	
G		NA							
ш	PRODUCT SPILLED Lube Oil		300 L				NA		
''	SECOND PRODUCT SPILLED (IF APPLICABLE)	NA NA	TIES, KIL	OGRAMS OR O	CUBIC METRE	NA		
Ī	SPILL SOURCE Lube Oil Hose		Hose cou				6m2		SQUARE METRES
J	FACTORS AFFECTING SPILL O Frozen ground co ADDITIONAL INFORMATION, C	nditions	NA				None.		PERTY OR EQUIPMENT
K	At approximately the cone crusher. surface. The open measures. The s water bodies are of coupling/o-ring fa impacted material Facility at Milne P	The hose came I rator shut down the pill location is > 1 currently frozen and ilure. The spill was temporarily stort for treatment.	ose and di ne plant im 00 m from nd ice cove as cleaned ored in two	schar media the neered. up wi	ged a vo itely and earest di The imm th pads rex bags	lume of linitiate rainage nediate (and the	lube oil onto d notificatior (non-fisherie cause of the spill area ex Il be transpor	o the cru n and cle s habita spill was cavated rted to th	sher pad ean-up t) and all s a . The ne Landfarm
L	REPORTED TO SPILL LINE BY Jim Millard	Env. Manager		Baffii	nland		Mary River		Ext 6016
М	ANY ALTERNATE CONTACT Allan Knight	Env. Superinte	T.	Baffir			ALTERNATE CONTAC Off Site	т	902-403-1337
			REPORT LINE	USE ON	LY				
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR		EMPLOYE	R		LOCATION CALLED YELLOWKNIFE, NT		REPORT LINE NUMBER (967) 920-8130
LEAD	AGENCY = EC = CCG = G	NWT DGN DILA DINAC	□ NEB □ TC	SIGN	FICANCE III N	MINOR 🗆 MA	JOR 🗆 UNKNOWN	FILE STAT	US - OPEN - CLOSED
AGE	NCY	CONTACT NAME		CONT	ACT TIME		REMARKS		
LEAD) AGENCY								
FIRS	T SUPPORT AGENCY								
SEC	OND SUPPORT AGENCY								
THIR	D SUPPORT AGENCY								

PAGE 1 OF ___1



April 2, 2016

Resource Management Officer Nunavut Field Operations Aboriginal Affairs and Northern Development Canada Box 100 Iqaluit, NU X0A 0H0 Justin.Hack@aandc-aadnc.gc.ca Director, Major Projects Qikiqtani Inuit Association P.O. Box 219 Iqaluit, NU X0A 0H0

Re: Follow-up to Spill #16-065, Reported on March 3, 2016 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On March 3, 2016 at approximately 13:00, while completing routine daily inspections of sewer lines and lift stations a release of grey water was discovered at lift station 19, located between the office and kitchen complexes of the Mine Site Complex. Upon further investigation, the lift station float switch had malfunctioned, causing an overflow which resulted in 100 Litres of grey water to slowly leak onto the adjacent ground surface. An area of approximately $10m^2$ was impacted. The location of the spill was on the Mine Site camp pad, is greater than 100 meters from the nearest watercourse and all water bodies are currently frozen and ice covered.

Immediate and Follow-Up Action:

Fixed Plant Maintenance and the Environment Department were immediately notified. The vacuum truck was used to empty the lift station and remove any pooling grey water. The pumps were shut off and the float was system was replaced.

Recommendations:

Routine inspections of the sewage lines and lift stations will continue to be completed to ensure all components of the sewage system are functioning as designed.

Current Status:

The lift station float switch was replaced shortly after the spill was reported and the lift station is back in service and functioning properly.

Should you require further information or clarification on the above noted spill, please feel free to contact Allan Knight at (647) 253-0596 x6010 or Jim Millard at (902) 403-1337.

Prepared By:

Reviewed by:

William Bowden,

Environmental Coordinator

Jim Millard

Environmental Manager

Attach: Photos, Map, NT-NU Spill Report

W. Buch

cc. Erik Madsen, Bernard Laflamme, Bikash Paul, Allan Knight, Anant Minhas, (Baffinland)

Scott Burgess, Erik Allain, (AANDC)



Photo 1 – Lift Station Spill



Photo 2 – Lift Station Spill Post Clean Up

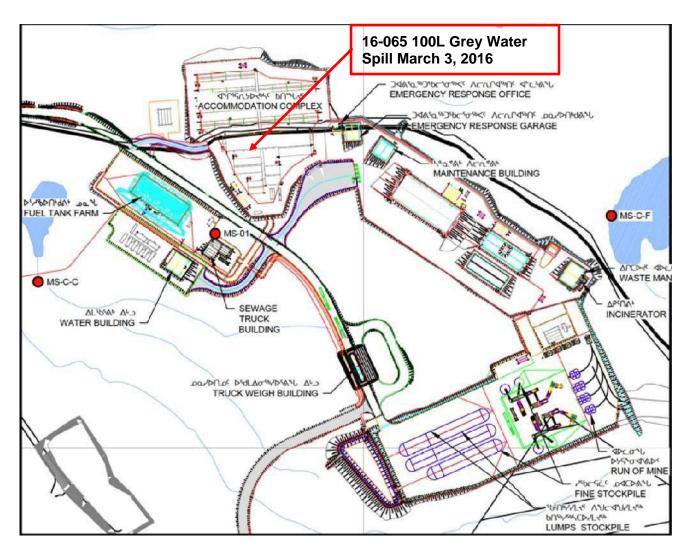


Figure 1 - Spill Location



Canada NT-NU SPILL REPORT

NT-NU 24-HOUR SPILL REPORT LINE

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

										REPORT LINE USE ONLY
Α	04-03-2016			11:30		RS	OR OR	ORIGINAL SPILL REP	ORT,	REPORT NUMBER
В	OCCURRENCE DATE: MONTH 03-03-2016	- DAY - YEAR		13:00			TO	JPDATE # THE ORIGINAL SPILI	L REPORT	16 - 065
С	IOL - Commercial		3C301			ER LICENCE NUMBER M-MRY1325				
D	GEOGRAPHIC PLACE NAME OF MINE Site Kitchen		TION FROM NAMED L	OCATION		REGION	UT	☐ ADJACENT JUR	ISDICTION	I OR OCEAN
Ε	DEGREES 71	MINUTES 18	SECONDS 53	- 1		REES 79		MINUTES 17		SECONDS 01
F	RESPONSIBLE PARTY OR VES Baffinland Iron M				S OR OFFICE LOCAT East, Suite 3), Oakville, O	N L6H	I 0C3	
G	N/A	N/A	ADDRESS	ORO	FFICE LOCATION					
	Grey Water		100L	TRES, KILI	.OGRA	MS OR CUBIC METR	ES	N/A		
П	SECOND PRODUCT SPILLED ((IF APPLICABLE)	QUANTITY IN LI	TRES, KIL	.OGRA	MS OR CUBIC METR	ES	N/A		
I	SPILL SOURCE Lift Station		Suspecte		_			10 m2		SQUARE METRES
J	Spill Adjacent to I	Infrastructure	N/A					N/A		PERTY OR ENVIRONMENT
K	At 13:00 HRS on I originating from t upon discovery, a station out. Initial influent gravity lir released onto the Maintenance will camp pad and is g ongoing and furth	he MSC Kitche and the lift stati investigation on the fitting to the adjacent groun repair or replace greater than 10 ner details of th	n North Lift S on pumps we lid not yield t lift station is nd, affecting a te the tank or 0 metres from	station ere sho dhe exa dama an are fitting n the o	n 19 ut o act igeo ea o g. Ti clos	The Enviror off. A vacuum cause of the d. Approximat f approximat he location of the dest water bo	nm m to sp ntely tely of the ody	ent Departm ruck was cal bill but it is si ly 100 L of gi / 10 m2. Fixe he spill was r. The investi bw-up report	ent wa led to uspec rey wa ed Plar on the gation	as notified pump the lift ted that the ter was at Mine Site a is currently
L	William Bowden	Env. Coord	linator	Baffii		nd		CATION CALLING FR line Site, NU		ext. 6010
М	ANY ALTERNATE CONTACT Jim Millard	Env. Manaç	jer	Baffir		nd		TERNATE CONTACT Nine Site, NU		ext. 6016
			REPORT LIN	E USE ON	NLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	R	EMPLOYE	ER			CATION CALLED LLOWKNIFE, NT		REPORT LINE NUMBER (867) 920-8130
LEAD	AGENCY DEC DCCG DG	SNWT DGN DILA DII	NAC DINEB DITC	SIGN	IIFICA	NCE - MINOR - M	JOR	R 🗆 UNKNOWN	FILE STAT	US □ OPEN □ CLOSED
AGE	NCY	CONTACT NAME		CONT	TACT	TIME		REMARKS		
LEAD	AGENCY									
	T SUPPORT AGENCY									
	DND SUPPORT AGENCY						\dashv			
	D OUT FURT MIGERIUT			- 1						

PAGE 1 OF ____

Figure 2 – NT-NU Spill Report



May 3, 2016

Resource Management Officer Nunavut Field Operations Aboriginal Affairs and Northern Development Canada Box 100 Iqaluit, NU X0A 0H0 Justin Hack Justin.Hack@aandc-aadnc.gc.ca Director, Major Projects Qikiqtani Inuit Association P.O. Box 219 Iqaluit, NU X0A 0H0

Re: Follow-up to Spill #16-109, Reported on April 5th, 2016 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

At approximately 17:00 on April 04, 2016, a spill was identified while environmental personnel were doing an inventory of hazardous waste berms at the Mary River Mine Site. It is estimated that 140L of used engine oil was released into the berm covering an approximate area of 3m². The used oil was housed in a plastic drum which had a puncture in the bottom causing it to slowly leak out into the engineered lined containment berm. The spill location is > 100 m from the nearest drainage (non-fisheries habitat) and all water bodies are currently frozen and ice covered.

Immediate and Follow-Up Action:

Environmental personnel placed the leaking drum in tertiary containment (spill tray). Site services then cleaned up contaminated snow and residual oil with shovel and placed material in quatrex bag. The contaminated snow from the impacted area was removed for disposal in the Landfarm Facility at Milne Port.

Recommendations:

Proper placement of hazardous materials within line containment structures has been addressed with responsible departments.

Current Status:

Clean up of berms has commenced. Numerous used oil totes have been moved to MS-HWB-7.

Should you require further information or clarification on the above noted spill, please feel free to contact Allan Knight at (647) 253-0596 x6016 or Jim Millard at (902) 403-1337.

Prepared By:

William Bowden

Environmental Coordinator

Reviewed by:

Baffinland

Jim Millard Environmental Manager

Attach: Photos, Map, NT-NU Spill Report

cc. Erik Madsen, Bernard Laflamme, Bikash Paul, Allan Knight, Todd Burlingame (Baffinland), Erik Allain, Scott Burgess (AANDC).



Photo 1 – Spill Location

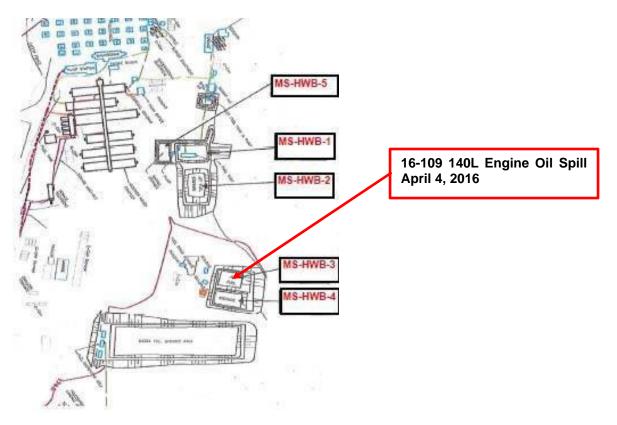


Figure 1 - Spill Location

Figure 2 - NT-NU Spill Report

CONTACT TIME

REMARKS

AGENCY

LEAD AGENCY

FIRST SUPPORT AGENCY
SECOND SUPPORT AGENCY
THIRD SUPPORT AGENCY

CONTACT NAME

PAGE 1 OF



June 2, 2016

Resource Management Officer Nunavut Field Operations Aboriginal Affairs and Northern Development Canada Box 100 Iqaluit, NU X0A 0H0 Justin Hack Justin.Hack@aandc-aadnc.gc.ca Director, Major Projects Qikiqtani Inuit Association P.O. Box 219 Iqaluit, NU X0A 0H0

Re: Follow-up to Spill #16-149, Reported on May 3rd, 2016 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

At approximately 13:45 on May 3, 2016, an Ore Haul Truck (OHT) Operator began the fueling process at the Milne Port Diesel Fuel Module by engaging the module's fuel pump. Before he started fuel transfer (filling the OHT fuel tank), the Operator noticed that the pump's meter display had already began counting, yet there was no fuel flowing from the nozzle he was about to use. The Operator began to investigate why the meter was running when he noticed that fuel was flowing from the secondary fuel nozzle, accessed through the adjacent (north) roll-up door into the diesel module (refer to Photo 1). The Operator immediately pressed the emergency shut-off switch which stopped the flow of fuel and called Site Services.

By visual assessment, it was estimated that approximately 300 L of diesel fuel was released into the sea container module. While the fuel was observed to be fully contained within the structure (refer to Photo 2), upon snowmelt further assessment will be completed to determine the extent of a potential release to the surrounding constructed containment berm in which the module is located. The assessment cannot be completed at this time since the east side of the module is inaccessible to snow removal equipment. The location of the spill was fully contained within constructed secondary containment and is greater than 200 meters away from the nearest water body, Milne Inlet, which is currently frozen.

Immediate and Follow-Up Action:

Site Services, Fixed Plant Maintenance and Environment Department personnel responded to the incident. Upon their arrival at the module, Fixed Plant Personnel confirmed the source of the release by placing a 5 gal pail under the suspect nozzle and "jogging" the pump. The Fixed Plant team then ensured that the isolation/ball valve supplying fuel to this fuel line was closed and secured, followed by replacing the faulty fuel nozzle affixed to the fuel line. A lock-out of the isolation/ball valve supplying fuel to this fuel line was also applied.

Recommendations:

The following recommendations have been developed from the responsible departments:

- Removal of the Fuel Management Systems (FMS) electrical bypass that authorizes unrecorded fueling
 activities. Removing the bypass will re-assign user accountability when using the module and identify
 potential losses to the environment (i.e. overflows); and
- Installation of a surveillance camera to provide 24/7 surveillance of the area.

Current Status:

The Fuel Module's faulty fuel nozzle has been replaced and the fuel line remains locked-out as per proper Baffinland procedure. To provide an additional control, the isolation/ball valve also remains locked-out.

While there appears to be no ground contamination to the area east of the module, further assessment will be completed on the west side, at which time where practical, clean-up of the area will be completed.

Re-installation of the electrical bypass will be completed at a later date in summer of 2016 as this requires work to be completed by a qualified professional/ third party contractor.



The surveillance camera and ancillary support parts (mounting brackets) have been procured and ordered. Upon receipt at site, installation of the camera will be completed.

Should you require further information or clarification on the above noted spill, please feel free to contact Allan Knight at (647) 253-0596 x6010 or Jim Millard at (902) 403-1337.

Prepared by: Reviewed by:

Allan Knight

James Millard **Environmental Superintendent Environmental Manager**

Attach: Photos, Map, NT-NU Spill Report

Todd Burlingame, Sylvain Proulx, Bikash Paul, Allan Knight, William Bowden, Andrew Vermeer, Jennifer CC. St. Paul-Butler (Baffinland), Stephen Bathory (QIA), Erik Allain, Scott Burgess (INAC)

Baffinland



Photo 1 - Source of release – Secondary (back-up) fuel supply line

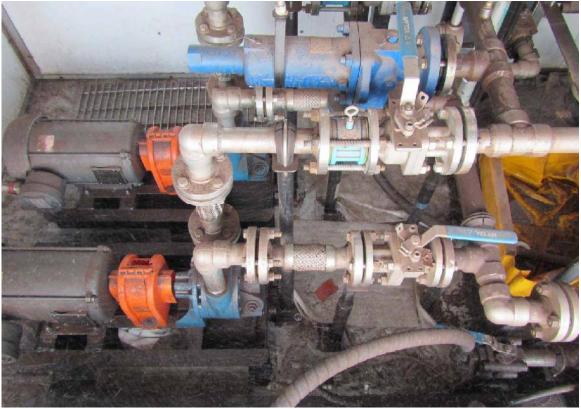


Photo 2 – Spill Contained within Module



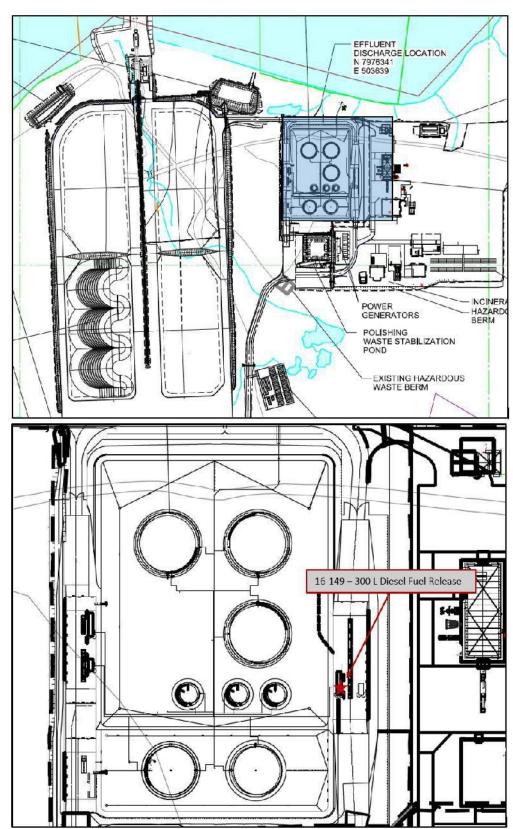


Figure 1 – Spill Location







NT-NU SPILL REPORT

NT-NU 24-HOUR SPILL REPORT LINE

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

								REPORT LINE USE ONLY
Α	REPORT DATE: MONTH - DAY 05-03-2016	- YEAR		17:45	ME	☐ ORIGINAL SPILL RE	PORT,	REPORT NUMBER
В	OCCURRENCE DATE: MONTH 05-03-2016	I – DAY – YEAR		000URREN	NCE TIME	UPDATE # TO THE ORIGINAL SPI	LL REPORT	16 - 149
С	LAND USE PERMIT NUMBER (301		ATER LICENCE NUMBE			
Ē	GEOGRAPHIC PLACE NAME O				REGION	Type A		
D	Mary River Project	ct Milne Port, Baff		NU	□ NWT X NUNAV	UT 🗆 ADJACENT JU	RISDICTION	OR OCEAN
Ε	DEGREES 71	MINUTES 53	SECONDS 08	3 0	ONGITUDE EGREES 80	MINUTES 53	SE SE	ECONDS 34
F	RESPONSIBLE PARTY OR VES Baffinland Iron M	ines Corp.	1		ress or office Local ad East, Suite	non 300, Oakville, (ON L6H	0C3
G	N/A	D	N/A	ADDRESS O	R OFFICE LOCATION			
	PRODUCT SPILLED		QUANTITY IN LI	TRES, KILOO	GRAMS OR CUBIC METE	RES U.N. NUMBER		
ш	Arctic Diesel (P50	0)	300 L			N/A		
П	SECOND PRODUCT SPILLED	(IF APPLICABLE)		TRES, KILO	GRAMS OR CUBIC METE	1		
	N/A		N/A			N/A		
П	SPILL SOURCE Diesel Fuel Line/N	Nozzle	SPILL CAUSE Damageo	l Fuel N	lozzle	Potential		SQUARE METRES
Ŀ.	FACTORS AFFECTING SPILL O		DESCRIBE ANY					PERTY OR EQUIPMENT
J	Inside Sea Contai		N/A			N/A		
K	engaging the fuel pump the fuel, the no fuel flowing frow was running when module. The Opecalled Site Servic By visual observations assessment will be constructed engineers.	es. ation, it was estim e, and while the fu be completed to d neered containme	inland Miln d that the p was about fuel was flo emergence ated that a el was obs etermine if	ne Port loump's to use. owing firely shut- approx. erved to any vo which	P-50 Diesel Fu meter had alre The Operator rom a seconda off switch whi 300 L of diese o be fully cont dume of fuel w	el Module. Bet eady began con began to invest ry fuel nozzle ch stopped the I fuel was releat ained within the as released to located.	fore he s unting, y stigate w into the e flow of ased into the surr	started to yet there was why the meter diesel f fuel and o the sea ture, further rounding
L	REPORTED TO SPILL LINE BY Jim Millard			Baffinl		Mary River		ELEPHONE 647-253-0596
_	ANY ALTERNATE CONTACT	Env Manager		EMPLOYER		ALTERNATE CONTACT	Ι,	LTERNATE TELEPHONE
M	Allan Knight	Env Superinte	endent	Baffinl	and	Mary River		Ext 6016
Г			REPORT LIN	E USE ONL	Υ			
N	RECEIVED AT SPILL LINE BY	POSITION		EMPLOYER	l	LOCATION CALLED	R	REPORT LINE NUMBER
IN		STATION OPERATOR		<u></u>		YELLOWKNIFE, NT	(8	867) 920-8130
_	AGENCY DEC DCCG DC		NEB DTC	SIGNIFI	CANCE - MINOR - M	AJOR 🗆 UNKNOWN	FILE STATU	JS 🗆 OPEN 🗆 CLOSED
AGE	NCY	CONTACT NAME		CONTA	CTTIME	REMARKS		
LEA	DAGENCY							
FIRS	ST SUPPORT AGENCY							
-								
SEC	OND SUPPORT AGENCY							

Figure 2 – NT-NU Spill Report



June 13, 2016

Resource Management Officer Nunavut Field Operations Aboriginal Affairs and Northern Development Canada Box 100 Iqaluit, NU X0A 0H0 Justin Hack Justin.Hack@aandc-aadnc.gc.ca Director, Major Projects Qikiqtani Inuit Association P.O. Box 219 Iqaluit, NU X0A 0H0

Re: Follow-up to Spill #16-159, Reported on May 10th, 2016 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On May 10, 2016 at 10:00, during transport along the Mary River Tote Road, an Ore Haul Truck (OHT) Operator ran over a metal mud-flap bracket puncturing a small hole in the bottom of the passenger side diesel fuel tank. The operator continued to drive a distance before he was notified by Site Personnel approaching from behind that he was leaking diesel fuel at which time the Operator immediately pulled over to assess the leak at Km 37.

A 5 gal pail was used to provide immediate containment while Site Personnel retrieved a nearby spill kit. The initial spill trail was approximately 100L and the release to the area adjacent to the truck at km 37 was estimated to be 150L based on the area of the spill. The remaining diesel contained in the tank was collected with 5 gal pails and transferred to 200L drums. Absorbent pads and socks were used to absorb fuel spilled to the surrounding area.

Immediate and Follow-Up Action:

Site Environment was notified and arrived to assess the spill. Upon their arrival, the spill was contained and clean-up efforts were underway. The OHT was relocated a few meters forward to allow better access for clean-up efforts. Absorbent pads and booms were used to clean-up residual fuel spilled on the Tote Road, contaminated material was taken to the Milne Inlet Landfarm.

An assessment of the Tote Road was completed to determine the area of impact to the ground from the release of fuel from the OHT fuel tank while in transport. The impact was determined to be negligible as the truck was travelling at 45 km/h while releasing a spray-like release, which due to evaporation and dispersion the release was not visibly detectable along most of the distance the truck travelled.

Recommendations:

Awareness programs educating Site Personnel of the risks (to safety and equipment/ tires) of foreign objects on the Tote Road and site roadways to be implemented at site.

Current Status:

On camp road and laydowns, magnetic rollers are used to clean up small metal items, and Awareness programs have been delivered to site personnel.

Should you require further information or clarification on the above noted spill, please feel free to contact Allan Knight at (647) 253-0596 x6010 or Jim Millard at (902) 403-1337.

Prepared By:

all-Kyb

Allan Knight

Environmental Superintendent

Attach: Photos. Map. NT-NU Spill Report

cc. Todd Burlingame, Sylvain Proulx, Bikash Paul, Jim Millard, Andrew Vermeer, Jennifer St. Paul-Butler (Baffinland), Stephen Bathory (QIA), Erik Allain, Scott Burgess (INAC)

Baffinland



Photo 1 - Source of release – Ore Haul Truck Fuel Tank



Photo 2 – Spill Area





Figure 1 – Spill Location







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

REPORT LINE USE ONLY

Α	REPORT DATE: MONTH - DAY - Y 05-10-2016	/EAR		10:00		OR	ORIGINAL SPILL RI	EPORT,	REPORT NUMBER
В	OCCURRENCE DATE: MONTH - D	DAY - YEAR		OCCURRE	ENCE TIME	- Ol	IPDATE #THE ORIGINAL SP	III DEPORT	16 - 159
ט	05-10-2016			10:00				ILL PILE SOL	
С	IOL - Commercial L	ease No.: Q13C3			2AM-MRY1325				
D	Mary River Project			I U	REGION NWT X NUNA	VUT	□ ADJACENT J	URISDICTION	OR OCEAN
Е	DEGREES 71 M	IINUTES 38	SECONDS 39		LONGITUDE DEGREES 80		MINUTES 22	2 s	ECONDS 52
F	RESPONSIBLE PARTY OR VESSE Baffinland Iron Min			PARTY ADD	oress or office Local ad East, Suite		, Oakville,	ON L6H	0C3
G	ANY CONTRACTOR INVOLVED N/A		N/A	ADDRESS (OR OFFICE LOCATION				
	PRODUCT SPILLED Arctic Diesel (P50)		Approx.		OGRAMS OR CUBIC MET	RES	U.N. NUMBER		
Н	SECOND PRODUCT SPILLED (IF	APPLICABLE)			GRAMS OR CUBIC MET	RES	U.N. NUMBER		
	N/A	,	N/A				N/A		
1	Diesel Fuel Tank		SPILL CAUSE Puncture	d Fuel	Tank		Approx. 2		SQUARE METRES
J	FACTORS AFFECTING SPILL OR N/A	RECOVERY	DESCRIBE ANY	ASSISTAN	CE REQUIRED		HAZARDS TO PE	RSONS, PRO	PERTY OR EQUIPMENT
	ADDITIONAL INFORMATION, COM	MMENTS. ACTIONS PROPO		O CONTAIN	L RECOVER OR DISPOS	E OF S		T AND CONTA	AMINATED MATERIALS
K	May 10, 2016 at 10: ran over a metal mu fuel tank. The opera approaching from t pulled over to asse A 5 gal pail was use kit. The initial spill t	ud-flap bracket p ator continued to behind that he w ass the leak.	ouncturing o drive a d as leaking	a sma istance diesel	all hole in the b e before he wa I fuel at which	otto s no time	om of the po otified by S of the Opera	assenge ite Pers itor imm	er side diesel onnel
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Figure 2 – NT-NU Spill Report



June 28, 2016

Resource Management Officer Nunavut Field Operations Aboriginal Affairs and Northern Development Canada Box 100 Iqaluit, NU X0A 0H0 Justin.Hack@aandc-aadnc.gc.ca Manager, Major Projects Qikiqtani Inuit Association P.O. Box 219 Iqaluit, NU X0A 0H0

Re: Follow-up to Spill #16-195, Reported on May 26th, 2016 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On May 26th, 17:00, during an inspection of the Mine Site Old Fuel Bladder Farm (HWB 7), a spill of used oil was observed inside the bermed facility. The spill is entirely contained within the engineered lined containment that is inspected bi-annually by a qualified Geotechnical Engineer. An inspection around the foot of the berm of the facility indicated no leakage to the environment. Upon inspection, one 1m³ tote was discovered punctured, which drained into the berm. The spill location is greater than 500 meters from the nearest water body and occurred on Inuit Owned Land.

Immediate and Follow-Up Action:

The Oily Water Separator (OWS) was employed to treat the contaminated water in the berm starting June 14, 2016 and has processed 355 M³ to date. Contaminated water processing is ongoing. Clean up of the free product used oil in the berm will be completed utilising a hydrocarbon skimmer. The berm is storage to numerous 1 m³ totes containing used hydrocarbons awaiting backhaul for proper disposal during the 2016 backhaul sealift.

Recommendations:

Proper stacking and placement of all hazardous materials within line containment structures has been communicated to all responsible departments. A longer term waste management strategy is in development.

Current Status:

The OWS is currently processing the contaminated water in the berm. Final cleanup of the released used oil will be completed utilising a hydrocarbon skimmer in combination with the OWS. Until that time, the integrity of the engineered lined containment is being monitored to ensure there is no release to the receiving environment outside of containment.

Should you require further information or clarification on the above noted spill, please feel free to contact Trevor Myers / Allan Knight at (647) 253-0596 x6010 or Jim Millard at (902) 403-1337.

Prepared By: Reviewed by:

William Bowden

Environmental Coordinator

Jim Millard, M.Sc., P.Geo. Environmental Manager

Attach: Map, NT-NU Spill Report

cc. Todd Burlingame, Jim Millard, Allan Knight, Wayne McPhee, Sylvain Proulx, Bikash Paul (Baffinland), Stephen Bathory (QIA), Erik Allain, Scott Burgess (INAC)

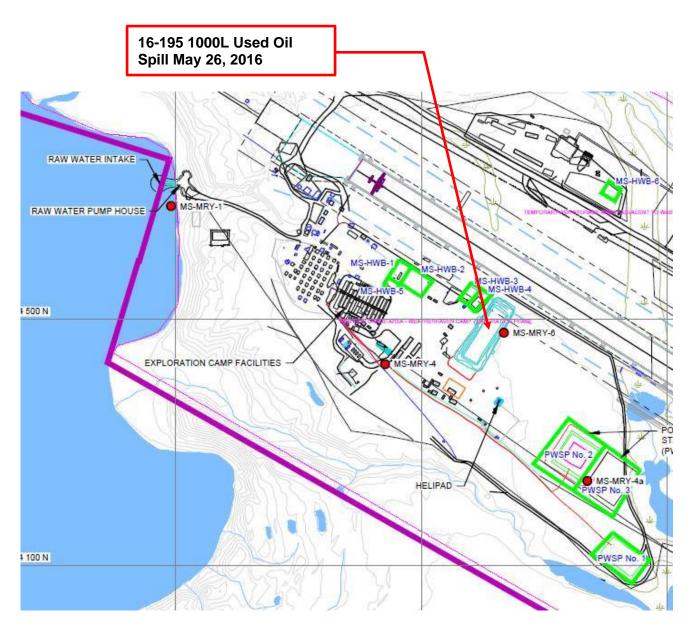


Figure 1: Map of Spill Location



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

							REPORT LINE USE ONLY			
Λ	REPORT DATE: MONTH - DAY - Y	EAR		REPORT TIME	v	ORIGINAL SPILL REPORT,				
Α	05-26-2016			17:00:00 hrs	OR		REPORT NUMBER			
	OCCURRENCE DATE: MONTH - D	AY-YEAR		OCCURRENCE TIME		JPDATE #	16 - 195			
В	unknown			unkown	10	THE ORIGINAL SPILL REPO	DRI			
$\overline{}$	LAND USE PERMIT NUMBER (IF A			WATER LICENCE NUM						
C	IOL - Commercial L			2AM-MRY1325 Type "A"						
D	GEOGRAPHIC PLACE NAME OR I			OCATION REGION						
ט	Mary River Mine Sit	e, Baffin Island,	NU		NAVUT	☐ ADJACENT JURISDIC	TION OR OCEAN			
Е		NUTES 19	SECONDS 31	DEGREES		MINUTES 22	SECONDS 08			
F	RESPONSIBLE PARTY OR VESSE Baffinland Iron Min			PARTY ADDRESS OR OFFICE LO		, Oakville, ON L	6H 0C3			
$\overline{}$	ANY CONTRACTOR INVOLVED		CONTRACTOR /	ADDRESS OR OFFICE LOCATION	N					
G	N/A		N/A							
	PRODUCT SPILLED			TRES, KILOGRAMS OR CUBIC N	METRES	U.N. NUMBER				
ш	Waste Oil		1 M3			N/A				
п	SECOND PRODUCT SPILLED (IF	APPLICABLE)		TRES, KILOGRAMS OR CUBIC N	METRES	U.N. NUMBER				
	N/A		N/A			N/A				
ı	Punctured waste oil	Ltoto in borm	SPILL CAUSE	d tata		AREA OF CONTAMINATIO				
			Puncture			approx. 200m2				
J	On water/ice/snow i		N/A	ASSISTANCE REQUIRED		N/A	PROPERTY OR EQUIPMENT			
	ADDITIONAL INFORMATION, COM	IMENTS, ACTIONS PROPO	SED OR TAKEN TO	O CONTAIN, RECOVER OR DISP	OSE OF	SPILLED PRODUCT AND C	ONTAMINATED MATERIALS			
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS On May 26 2016, a spill was discovered during routine inspections of the Mine Site Hazardous Waste Berm #7 (HWB7). Upon initial investigation, the source of the spill was from a punctured waste oil tote (1 m3). The spill is entirely contained within the HWB7 which is constructed within engineered lined containment that is inspected annually by a qualified Geotechnical Engineer. The facility is located >500 m from the nearest water body and occurred on Inuit owned land. Initial estimates of									
				•			p in the			
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L	2AM-MRY1325, Part	POSITION Env. Manager	reported a	EMPLOYER Baffinland	LO M	CATION CALLING FROM lary River	p in the cence No. TELEPHONE 647-253-0596			
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PAGE 1 OF

Figure 2: NT-NU Spill Report



July 7, 2016

Resource Management Officer Nunavut Field Operations Aboriginal Affairs and Northern Development Canada Box 100 Iqaluit, NU X0A 0H0 Justin.Hack@aandc-aadnc.gc.ca Director, Major Projects Qikiqtani Inuit Association P.O. Box 219 Iqaluit, NU X0A 0H0

Re: Follow-up to Spill #16-210, Reported on June 7, 2016 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

At 10:30 HRS on June 6, 2016, a grey water leak was discovered originating from the MSC Kitchen South Lift Station 19. The Environment Department was notified upon discovery, and the lift station pumps were shut off. A vacuum truck was called to pump the lift station out. Initial investigation determined the discharge line form the lift station had separated. Approximately 1 m³ of grey water was released onto the adjacent ground, affecting an area of approximately 10 m². The location of the spill was on the Mine Site camp pad and is greater than 100 metres from the closest water body.

Immediate and Follow-Up Action:

Fixed Plant Maintenance and the Environment Department were immediately notified. The lift station pumps were turned off and the vacuum truck was used to empty the lift station and remove any pooling grey water. The discharge pipe from the tank had separated.

Recommendations:

Routine inspections of the sewage lines and lift stations will continue to be completed to ensure all components of the sewage system are functioning as designed.

Current Status:

The lift station discharge pipe was replaced was replaced shortly after the spill was reported and the lift station is back in service and functioning properly.

Should you require further information or clarification on the above noted spill, please feel free to contact Allan Knight at (647) 253-0596 x6010 or Jim Millard at (902) 403-1337.

Prepared By:

Reviewed by:

Allan Knight,

Environmental Superintendent

Jim Millard

Environmental Manager

Attach: Map, NT-NU Spill Report

cc. Todd Burlingame, Wayne McPhee, Sylvain Proulx, Bikash Paul, Jim Millard (Baffinland), Stephen Bathory (QIA), Erik Allain, Scott Burgess (INAC)

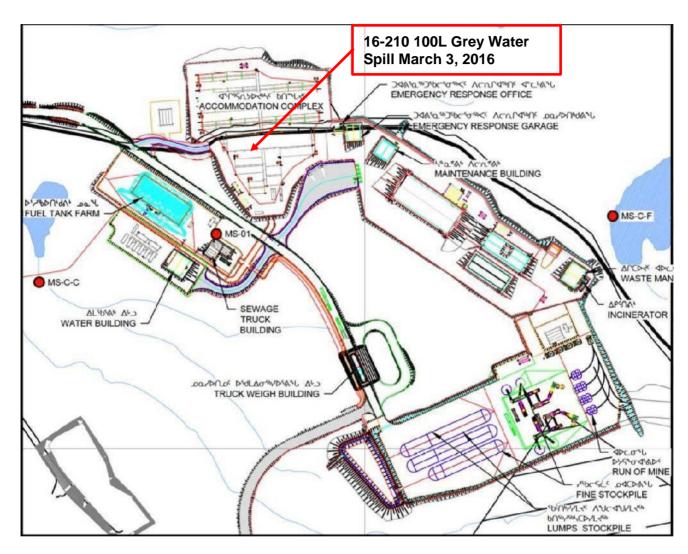


Figure 1 - Spill Location



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

	2				REPORT LINE USE ONLY
Α	REPORT DATE: MONTH - DAY - Y	(FAR	REPORT TIME	□ ORIGINAL SPILL REPORT.	
Λ	06-07-2016 OCCUBBENCE DATE: MONTH = I		10:30 HRS	OR	REPORT NUMBER
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D		DISTANCE AND DIRECTION FROM NAMED	SSANSEOLEF 7.5 INSTANT.		
U	Mary River Mine Sit	te, Baffin Island, NU	1.14 V. 10 (0.4 1) 2.1 V. 10 (1.10 (UNAVUT LI ADJACENT JURISDICT	ION OR OCEAN
E	DEGREES 71 M		LONGITUDE DEGREES 79	MINUTES 17	SECONDS 01
F	RESPONSIBLE PARTY OR VESSE Baffinland Iron Min	nes Corp. 2275 Mi		tie 300, Oakville, ON Le	SH 0C3
G	ANY CONTRACTOR INVOLVED N/A	N/A	R ADDRESS OR DEFICE LOCATIO		
. 3	PRODUCT SPILLED		LITRES, KILOGRAMS OR CUBIC I		
Н	Grey Water SECOND PRODUCT SPILLED (IE.	1 cubic		N/A	
	N/A	N/A	TTIBES, KILOGRAMS OR CUBIC	METRES UN NUMBER N/A	
1	SPILL SOURCE Lift Station	SPILL CAUSL Fitting F		ABLA DE CONTAMINATION 10 m2	NIN SQUARE METRES
Î	LACTORS ALL LICTING SPILL OR		NY ASSISTANCE REQUIRED		TIOPERTY OR EQUIPMENT
J	Spill Adjacent to In	frastructure N/A MMENTS, ACTIONS PROPOSED OR TAKEN	LTO ACUTAIN DEOM/ED ADDIO	N/A	POTENTIATE DELICATED (AUD.)
K	spill was on the Mir	the adjacent ground, affe ne Site camp pad and is g rently ongoing and furth	greater than 100 met	tres from the closest w	ater body. The
L M	REPORTED TO SPILE LINE BY Allan Knight ANY ALTERNATE CONTACT	POSITION Env. Superintendent	EMPLOYER EMPLOYER	LOCATION CALLING FROM 647-253-0596 ALTEROPER CONTACT	ELLEPTONE ext. 6016 ALTERNATE TELEPTIONE 902-403-1337
141	Jim Millard	Env. Manager	Baffinland	Off Site	902-403-1331
	RECEIVED AT SPILL LINE BY	POSITION REPORT L	INE USE ONLY EMPLOYED	LOCATION CALLED	REPORT LINE NUMBER
N	RECEIVED AT SPILL LINE BY	STATION OPERATOR	Exiliconen	YELLOWKNIEF, NT	(867) 920-8130
ELA	T DAGENCY⊐LC □CCG □GNP	WI ION DILA DINAC DNLB DIC	SIGNIFICANCE MINOR		IATUS E OPEN E CLOSED
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	RD SUPPORT AGENCY				

PAGE 1 OF

Figure 2 – NT-NU Spill Report



August 16, 2016

Resource Management Officer Nunavut Field Operations Aboriginal Affairs and Northern Development Canada Box 100 Iqaluit, NU X0A 0H0 Justin Hack Justin.Hack@aandc-aadnc.gc.ca Manager, Major Projects Qikiqtani Inuit Association P.O. Box 219 Iqaluit, NU X0A 0H0

Re: Follow-up to Spill #16-063, Reported on July 17, 2016 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

See attached spill report. On July 16, 2016 at 16:00 HRS, the operator of a CAT 390 excavator discovered that his unit was leaking hydraulic oil at a high rate. The excavator was situated on the working bench of the Deposit No. 1 Pit. The operator immediately shut down the equipment and then called his supervisor to investigate. Approximately 200 liters of hydraulic oil was released to the adjacent ground surface, the surface consisting of broken waste rock (recent blast site). The immediate cause of the spill was a hose failure, which was subsequently replaced prior to equipment start-up.

Immediate and Follow-Up Action:

The Mine Operations Supervisor and Environment Department were notified immediately upon spill discovery. The immediate clean-up response was to use spill pads to mop up observed free product. The contaminated waste rock material was subsequently excavated. In consideration that the material was too coarse to place in the Milne Port Landfarm, it was hauled to the top of the PAG waste rock pile to be stored at a designated location for further observation and/or sampling. The storage area has drainage control and will be monitored for any free product migration or sheen. The nearest water body is >1 km away from both the spill location and storage location.

Recommendations:

Preventative maintenance inspection programs for the various components of the drill are being implemented.

Current Status:

The hose was subsequently replaced and the unit was put back into service. The affected area was cleaned up and the contaminated material placed in a secure, contained location..

Should you require further information or clarification on the above noted spill, please feel free to contact Jim Millard or Allan Knight at (647) 253-0596 x6016..

Prepared By

Jim Millard Environmental Manager

Attach: Photos, Map, NT-NU Spill Report

cc. Scot Klingsman, Sylvain Proulx, Bikash Paul, Allan Knight, Todd Burlingame, Stephane Houde (Baffinland),

Erik Allain, Scott Burgess (AANDC).



Photo 1 – Spill Location

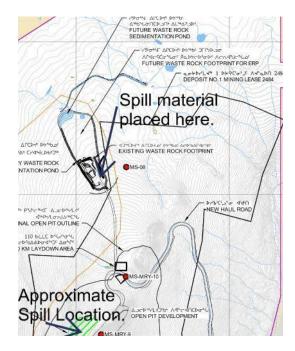


Figure 1 - Spill Location



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

				//					REPORT LINE USE ONLY
Δ	REPORT DATE: MONTH - DAY - YE	EAR		REPORT 1		X OR	GINAL SPILL REP	PORT	
^	07-17-2016			13:00	84 57-035	OR		O.L.	REPORT NUMBER
В	07-16-2016	AY – YEAR			CURRENCE TIME 7:00 HRS UPDATE # TO THE ORIGINAL SPIL		L REPORT	16 264	
^	LAND USE PERMIT NUMBER (IF A				WATER LICENCE NUM				
С	IOL - Commercial Le		ememora		2AM-MRY13	25 Type	• "A"		
D	GEOGRAPHIC PLACE NAME OR D Mary River Project N				REGION □ NWT X NUI	TUVAN	⊐ ADJACENT JUF	RISDICTION	OR OCEAN
E		NUTES 19	SECONDS 40	0	LONGITUDE DEGREES 79		MINUTES 13	SE	ECONDS 23
F	RESPONSIBLE PARTY OR VESSEL Baffinland Iron Mine				oress or office Lo ad East, Suit		Oakville, C	N L6H	0C3
G	ANY CONTRACTOR INVOLVED N/A		CONTRACTOR	ADDRESS (OR OFFICE LOCATION	l			
	PRODUCT SPILLED				OGRAMS OR CUBIC M		.N. NUMBER		
Н	Hydraulic Oil		Approx.			- 0	N/A		
П	SECOND PRODUCT SPILLED (IF A N/A	(PPLICABLE)	N/A	ITRES, KILO	OGRAMS OR CUBIC M	and what is	N. NUMBER N/A		
1	SPILL SOURCE		SPILL CAUSE	•		11/19			SQUARE METRES
3946	Hydraulic Oil Tank 3		Hose Fai				Approx. 15		
F	Coarse blasted was		N/A	/ ASSISTAN	ICE REQUIRED	11 8	AZARDS TO PER: N/A	SONS, PROF	PERTY OR EQUIPMENT
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Figure 2 – NT-NU Spill Report



September 01, 2016

Resource Management Officer
Nunavut Field Operations
Aboriginal Affairs and Northern Development Canada
Box 100
Iqaluit, NU X0A 0H0
Justin Hack Justin.Hack@aandc-aadnc.gc.ca

Manager, Major Projects Qikiqtani Inuit Association P.O. Box 219 Iqaluit, NU X0A 0H0

Re: Follow-up to Spill #16-283, Reported on August 3, 2016 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On August 2, 2015 at 18:45 HRS, the 150 psi rated 6" flexible braided pipe supplying the P50 fuel module at Milne Port was observed to have failed, resulting in the release of diesel fuel into the fuel containment facility. The volume of released diesel fuel was approximately 155 cubic meters (m³). Site Services personnel were able to shut off the valve upstream of the detached pipe within several minutes stopping the flow of fuel. Released fuel was contained within the engineered fuel containment liner and was not released to the environment. The location of the contained release is approximately 200 meters (m) south of the Milne Inlet. A response to the loss of control was initiated, and NT-NU Spill Report No. 16-283 was submitted on August 3, 2016.

Immediate and Follow-Up Action:

The damaged pipe was isolated by closing the upstream valve. The section of braided pipe was replaced and the fuel system piping system was inspected by a reliability engineer prior to being put back into service on August 10, 2016.

The incident investigation indicated the volume of diesel fuel released into the fuel containment facility was estimated to be approximately 155 m³. Fuel recovery actions began August 11, 2016 involving the collection of approximately 130 m³ of diesel and impacted water into temporary storage in double walled enviro tanks, poly totes and fuel bladders, which are all stored within the tank farm secondary containment. Approximately 280 m³ of impacted water has been removed and taken to the Milne Port Storm Water facility (MP-04) for treatment through the Oily Water Treatment System.

Recommendations:

Next Steps include:

- Transfer remaining impacted liquid from the bulk fuel tank containment berm to the oily water treatment system (OWS) containment area,
- Evaluate options to re-use the diesel fuel stored in the temporary storage tanks,
- Inspect and backfill the exposed section of liner with sand and washed, rounded granular material,
- Continue to monitor, analyze and treat water contained within the berm in accordance with the Type "A" Water Licence No. 2AM-MRY1235 Amendment No. 1, and
- Decommission the temporary storage tanks and bladders after the fuel and oily water is removed.



Current Status:

Water transfer, treatment and clean-up activities are on-going. Inspections of the engineered Bulk Fuel Containment Facility indicate liner integrity with no signs of product outside of the containment facility.

Should you require further information or clarification on the above noted spill, please feel free to contact Jim Millard or William Bowden at (647) 253-0596 x6016.

Prepared By:

Reviewed by:

William Bowden,

Wayne McPhee

Environmental Coordinator

Director Sustainable Development

Attach: Map, Photos, NT-NU Spill Report, NT-Nu Spill Report Update 1.

cc. Sylvain Proulx, Bikash Paul, Allan Knight, Todd Burlingame, Wayne McPhee Jim Millard (Baffinland), Stephen Bathory (QIA) Erik Allain, Scott Burgess (AANDC).

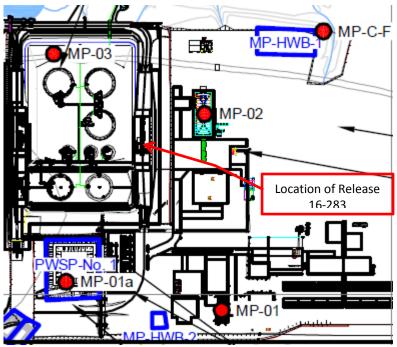


Figure 1: Location of spill.



Figure 2: Aerial view of containment berm.



Photograph 1 – Braided Flex Pipe fuel supply line to back of Module



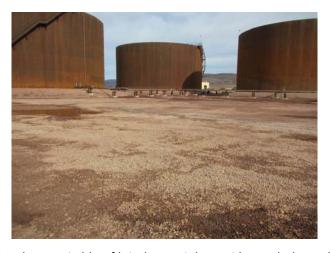
Photograph 2: Section of Braided Flex Pipe after replacement.



Photograph 3: Showing impacted water pooling within north and west side of interior containment berm. August 8, 2016



Photograph 4: Showing north side of interior containment berm during collection activities. August 31, 2016



Photograph 5: Showing west side of interior containment berm during collection activities. August 31, 2016



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

									REPORT LINE USE ONLY
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PAGE 1 OF _

Attachment 1 – NT-NU Spill Report 16-283 August 3, 2016



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

								REPORT LINE USE ONLY
Α	August 8, 2016	Y-YEAR		12:00			PRIGINAL SPILL REPORT,	REPORT NUMBER
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Attachment 2 – NT-NU Spill Report 16-283 Update No. 1 August 8, 2016



September 26, 2016

Resource Management Officer Nunavut Field Operations Aboriginal Affairs and Northern Development Canada Box 100 Iqaluit, NU X0A 0H0 Justin.Hack@aandc-aadnc.gc.ca Director, Major Projects Qikiqtani Inuit Association P.O. Box 219 Iqaluit, NU X0A 0H0

Re: Follow-up to Spill #16-315, Reported on August 27, 2016
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

At 12:00 HRS on August 26, 2016, a grey water leak was reported originating from the MSC Kitchen lift station (LS19). The lift station only receives grey water from the kitchen and is not connected to any washrooms. The recoverable released grey water was sucked up using a vacuum truck and transferred to PWSP #1 at the Mine Site. Upon further investigation it was determined that the float control that actuates the lift station pumps had malfunctioned causing the lift station to overflow. Approximately 1.5 m³ of grey water was released onto the adjacent ground, affecting an area of approximately 100 m². The location of the spill was on the Mine Site camp pad and is greater than 100 metres from the closest water body.

Immediate and Follow-Up Action:

Fixed Plant Maintenance and the Environment Department were immediately notified. The lift station pumps were manually activated and the vacuum truck was used to remove any pooling grey water.

Recommendations:

Routine inspections of the sewage lines and lift stations will continue to be completed to ensure all components of the sewage system are functioning as designed.

Current Status:

The float control for the lift station has been replaced and the lift station is back in service and functioning properly.

Should you require further information or clarification on the above noted spill, please feel free to contact Andrew Vermeer at (416) 364-8820 x6016 or Jim Millard at (902) 403-1337.

Prepared By:

Reviewed by:

Andrew Vermeer, Environmental Coordinator Jim Millard Environmental Manager

Attach: Map, NT-NU Spill Report

cc. Todd Burlingame, Wayne McPhee, Sylvain Proulx, Bikash Paul, Jim Millard (Baffinland), Stephen Bathory (QIA), Erik Allain, Scott Burgess (INAC)

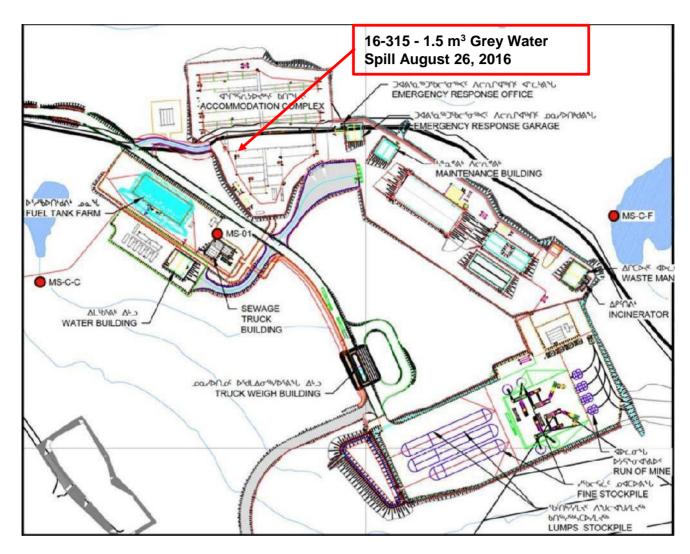


Figure 1 - Spill Location

Figure 2 - NT-NU Spill Report





REPORT DATE: MONTH - DAY - YEAR



NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130 FAX: (867) 873-6924 OIL GASOLINE CHEMICALS AND OTHER HAZARDOUS MATERIALS EMAIL: spils@gov.nt.ca REPORT LINE USE ONLY DEDINGTIME

A	08-26-2016	12:0	00 HRS	ORIGINAL SPILL REPORT.	REPORT NUMBER					
В	OCCURRENCE DATE: MONTH - DAY - YEAR 06-26-2016	E 57000	RRENCE TIME KNOWN	TO THE ORIGINAL SPILL REPORT	16 315					
C	IOL - Commercial Lease: Q13C30	1	2AM-MRY1325	TOWN ACCOUNTS OF THE PARTY OF T						
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTI Mary River Mine Site, Baffin Islan		N REGION X MUNAVU	T DADJACENT JURISDICTION	OR OCEAN					
E	DEGREES 71 MINUTES 18	SECONDS 53	DEGREES 79	MINUTES 17 S	EGDNOS 01					
F	RESPONSIBLE PARTY OR VESSEL NAME Baffinland Iron Mines Corp.	THE RESIDENCE PROPERTY OF THE	Road East, Sutie 3	on 100, Oakville, ON L6H	0C3					
G	ANY CONTRACTOR INVOLVED N/A	N/A	S OR OFFICE LOCATION							
Н	PRODUCT SPILLED Grey Water	1.5 cubic met	LOGRAMS OR CUBIC METRI E	N/A						
П	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	OUANTITY IN LITRES, K	ILOGRAMS OR CUBIC METH	N/A						
E	SPILL SOURCE Lift Station	Float/Pump F	allure	100 m2	SOUARE METRES					
J	FACTORS AFFECTING SPILL OR RECOVERY Spill beside/below Infrastructure	N/A	ANCE REQUIRED	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A						
	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS									
	At 12:00 HRS on August 26, 2016,	a grey water lea	ak was reported o	riginating from the M	SC Kitchen					

South Lift Station 19. The Environment Department was notified upon discovery. This lift station only receives grey water from the kitchen. The recoverable released grey water was sucked up and disposed of in containment. Initial investigation determined the floats from the lift lift station failed to actuate the pumps causing the lift station to overflow. Approximately 1.5 m3 of grey water was K released onto the adjacent ground, affecting an area of approximately 100 m2. The location of the spill was on the Mine Site camp pad, migrating underneath the office and ALS lab wings, and is greater than 100 metres from the closest water body. The investigation is currently ongoing and further details of the incident will be provided in the follow-up report. This spill is being reported as required by the conditions of water licence no. 2AM-MRY1325, Part H, item 9 (b) pursuant to subsection 12(3) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act.

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	REPORTED TO SPILL LINE BY	POSITION	E	MPLOYER	LOCATION CALLING F	HOM	TELEPHONE
L	Allan Knight	Env. Superintendent	E	Baffinland	647-253-0596	5	ext. 6016
	ANY ALTERNATE CONTACT	POSITION	E 50	MPLOYER	ALTERNATE CONTACT		ALTERNATE TELEPHONE
M	Jim Millard	Env. Manager	E	Baffinland	Off Site		902-403-1337
		REPORT L	INE	JSE ONLY			
NI	RECEIVED AT SPILL LINE BY	POSITION	E	MPLOYER	LOCATION CALLED		REPORT LINE NUMBER
N		STATION OPERATOR			YELLOWKNEE, NT		(867) 920-8130
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SEC	OND SUPPORT AGENCY						
THIR	ID SUPPORT AGENCY				1		

PAGE 1 OF



October 6, 2016

Resource Management Officer Nunavut Field Operations Aboriginal Affairs and Northern Development Canada Box 100 Iqaluit, NU X0A 0H0 Justin.Hack@aandc-aadnc.gc.ca Director, Major Projects Qikiqtani Inuit Association P.O. Box 219 Iqaluit, NU X0A 0H0

Re: Follow-up to Spill #16-327, Reported on September 6, 2016 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

At 0700 HRS on September 6, 2016, Baffinland's water treatment operator observed pooling wastewater inside and outside of the wastewater treatment plant (WWTP). The spill source was located in the backwash room from the aeration tank. Approximately 250 L of aerated sewage was released outside of the WWTP in a 40 m² area. Upon further investigation it was determined that a 2" diam. aluminum camlock fitting on the return line to recirculate aerated sewage failed and disconnected from the tank. Corrosion of the fitting may have contributed to the failure. The closest water body is approximately 100 m to the southwest and is currently frozen. The spill was confined to the WWTP pad.

Immediate and Follow-Up Action:

The WWTP operator immediately notified the Environment department and Site Services and a preliminary inspection was initiated. A vacuum truck was used to clean up pooling liquid inside of the WWTP. Sand was placed on the contaminated pad to absorb any remaining sewage. All contaminated material was transported to the land farm at Milne Port, an engineered lined containment facility. The corroded cam lock fitting was replaced with a new fitting before the system was put back into operation.

Recommendations:

Routine inspections of the WWTP will continue to be completed to ensure all components are functioning as designed.

Current Status:

The WWTP is currently fully operational and all lines and fittings appear to be in good condition.

Should you require further information or clarification on the above noted spill, please feel free to contact William Bowden at (416) 364-8820 x6016 or Jim Millard at (902) 403-1337.

Prepared By:

William Bowden, Environmental Coordinator Reviewed by:



Jim Millard Environmental Manager

Attach: Photos, Map, NT-NU Spill Report

cc. Todd Burlingame, Wayne McPhee, Sylvain Proulx, Sylvain Desrochers, Jim Millard Allan Knight (Baffinland).

Stephen Bathory (QIA), Erik Allain, Scott Burgess, Jonathan Mesher (INAC)



Photo 1. Spill contained to WWTP pad and vacuum truck used to suck up free liquid September 6th 2016.



Photo 2. Spill area after removal of contaminated material September 6th 2016.

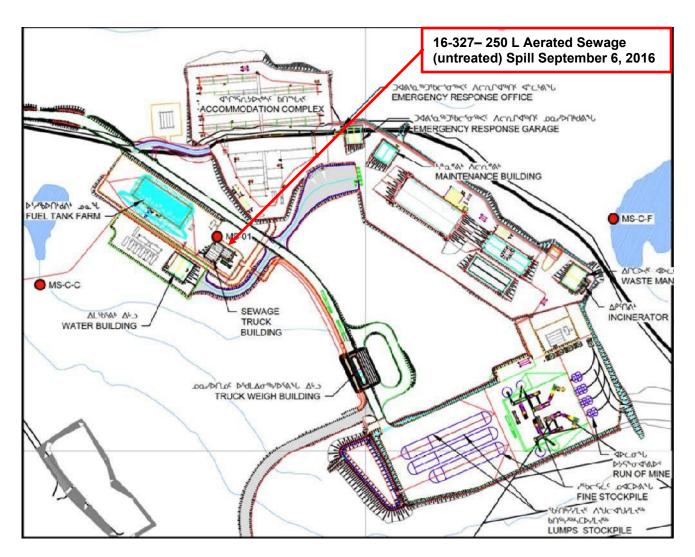


Figure 1 - Spill Location

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Figure 2 – NT-NU Spill Report