



2015 QIA and NWB Annual Report

March 31, 2016

APPENDIX E.7.4 FOLLOW-UP SPILL REPORTS



January 30th, 2015

Resource Management Officer
Nunavut Field Operations
Aboriginal Affairs and Northern Development Canada
Box 100
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Justin.Hack@aandc-aadnc.gc.ca
Robert Savard@aandc-aadnc.gc.ca

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

Re: Follow-up to Spill 15-003 Reported on January 2nd, 2015 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On January 2, 2015 an operator discovered untreated sewage around on the kitchen lift stations. Approximately 500-600 litres of sewage had overflowed the lift station based on the area of frozen sewage. The lift station pumps were turned off, and the vacuum truck used to pump down the lift station. It was discovered that the discharge line was frozen at the point where it enters the MSC. The location of the spill was on the camp pad and greater than 200 metres from the stream to the north.

Immediate and Follow-Up Action:

The line was isolated, and required to be cut in order to thaw it out. The heat trace circuit breaker was found to have been tripped. This lift station only receives sewage from two small washroom and one small sink and therefore pumps over very infrequently.

Recommendations:

The discharge line needs to be re-plumb so that it is self-draining. Ongoing routine inspection of the piping systems are required to inspect for leaks and potential locations of failure. A longer term plan to solve this issue is in development.

Current Status:

The system is back in service and regular inspections are conducted on the sewage lift station and sewer lines to verify there is no leakage throughout.

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

Sincerely,

Allan Knight, B.Sc.

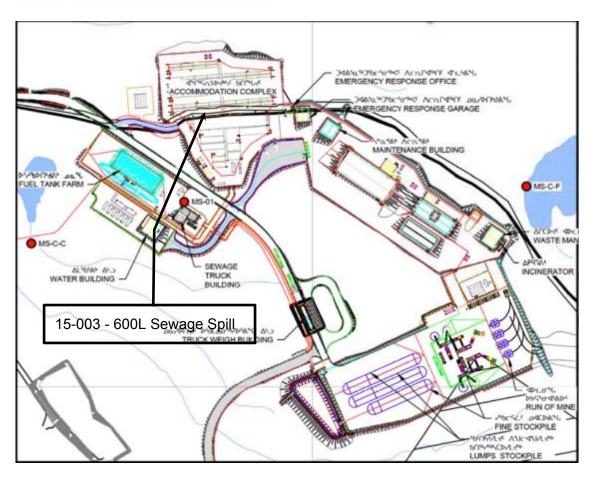
Environmental Superintendent

Attach: Map, NT-NU Spill Report

cc. Michael Anderson, Erik Madsen, Jim Millard, Trevor Myers (Baffinland),

Erik Allain (AANDC), Manager of Licencing (NWB).











Notified Numerical Canada 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	/-YEAR		PORT TIME		ORIGINAL SPILL REF	PORT.				
^	0.02 20.0		1,000	9:00	C	R	O.I.I.	REPORT NUMBER			
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F	Baffinland Iron M				ss or office Locatio I East, Suite 30		N L6H	0C3			
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J	Vacuum										
K	lift stations. Approximately 500-600 litres of untreated sewage had overflowed the lift station based on the area of frozen sewage. The lift station pumps were turned off, and the vacuum truck used to pump down the lift station. It was discovered that the discharge line was frozen at the point where it enters the MSC. The location of the spill was on the camp pad and greater than 200 metres from the stream to the north. Further details of the incident will be provided in the spill follow up report.										
L	Allan Knight	POSITION Env. Coord	2.00	_{MPLOYER} B affinla :	- E	ocation calling FF Mine Site	0.000	647-253-0596			
_	ANY ALTERNATE CONTACT	POSITION		MPLOYER	17,770	LTERNATE CONTACT		LTERNATE TELEPHONE			
M	Jim Millard	Env. Manag		Baffinla		Off Site	1.00	902-403-1337			
Г		-	REPORT LINE U	JSE ONLY							
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	ST SUPPORT AGENCY				TIME	REMARKS		867) 920-8130			

PAGE 1 OF ___1___



February 14th, 2015

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

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

Re: Follow-up to Spill 15-016 Reported on January 16th, 2015 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

At approximately 8:30 AM on January 16, 2015, a crusher operator discovered a hydraulic oil spill underneath the secondary cone at the crusher located near QMR2. The investigation concluded that a seal on an oil filter failed due to low temperatures. It is estimated that 150 L of hydraulic oil spilled onto the ground and quickly froze, limiting the migration of the spill. The closest receiving waters are approximately 100 meters from the location of the spill and are presently frozen.

Immediate and Follow-Up Action:

The worker immediately shut off the crusher, placed spill pads to contain the spill and notified his Supervisor, who in turn notified the Environment Department. The spill was cleaned up and the impacted snow and soil was removed and placed into secondary containment. The oily snow and soil will be transported to the Milne Port Landfarm facility. Representatives from the Fixed Plant Maintenance Department then attended the scene to conduct their investigation and determine the cause of the spill.

Recommendations:

In order to avoid future occurrences, the oil reservoir is now required to be pre-heated with a frost fighter prior to engaging the lube pump during periods of extreme cold weather.

Current Status:

The crusher has been repaired and is back in service. Frost fighters have also been placed in proximity to the oil reservoir to be used for pre-heating prior to engaging the lube pump.

Should you require further information or clarification on the above noted spill, please feel free to contact the undersigned or Allan Knight at (647) 253-0596 Ext. 6010.

Sincerely,

Trevor Myers, B.A. (Hon.), M.Sc. Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Michael Anderson, Erik Madsen, Jim Millard, Allan Knight, Jennifer St. Paul Butler (Baffinland), Erik Allain, (AANDC), Manager of Licencing (NWB).







Canada 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 01-16-2015	-YEAR		REPORT 21:45		XORIGINAL SPILL RE	PORT,	DEDORT NUMBER
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D	GEOGRAPHIC PLACE NAME OF Mary River Project			U	REGION NWT XNUNAV	UT □ ADJACENT JU	RISDICTION	I OR OCEAN
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F	RESPONSIBLE PARTY OR VES Baffinland Iron M				ad East, Suite		ON L6H	0C3
G	ANY CONTRACTOR INVOLVED NA)	CONTRACTOR	ADDRESS	OR OFFICE LOCATION			
	PRODUCT SPILLED		QUANTITY IN L	ITRES, KILO	GRAMS OR CUBIC METF	RES U.N. NUMBER		
	Hydraulic Oil		150 L			NA		
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ī	REPORTED TO SPILL LINE BY Trevor Myers	POSITION Env. Superi	ntendent	EMPLOYE Baffir		LOCATION CALLING FI	ROM	TELEPHONE 647-253-0596
220 000	ANY ALTERNATE CONTACT	POSITION	menuent	EMPLOYE		ALTERNATE CONTACT		ALTERNATE TELEPHONE
M	Jim Millard	Env. Manag	er	Baffir		Off Site		902-403-1337
			REPORT LIN	IE USE ON	LY			
Ν	RECEIVED AT SPILL LINE BY	POSITION		EMPLOYE	R	LOCATION CALLED		REPORT LINE NUMBER
I N		STATION OPERATOR	¥.			YELLOWKNIFE, NT		(867) 920-8130
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SEC	OND SUPPORT AGENCY							

PAGE 1 OF 1



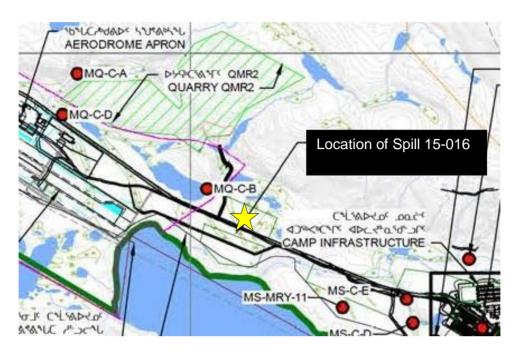


Figure 1 - Map of Spill Location



Photo 1 – Hydraulic Oil Spill





Photo 2 – Hydraulic Oil Spill Clean-up



February 27, 2015

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 swbathory@qia.ca

Re: Follow-up to Spill #15-029, Reported on January 30th, 2015 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On January 30 2015 at 12:30 PM, a worker detected a leak at the Port Site Complex accommodations BD wing North Lift Station. Environment and Site Services investigated the report. On investigation, a significant amount of sewage had been released from the lift station. The 1.5" discharge pipe's O-ring rubber seal, that seals the piping to the containment tank, had unglued and separated from the fitting. This caused sewage to release underneath the tank and freeze, lifting the containment tank. This resulted in the 4" mechanical joint clamp on the gravity influent line separating from the tank, causing the spill. It was conservatively estimated that the volume of the spill was 2 m³, based on an area of contamination of approximately 50m². The sewage froze in place and did not migrate further. The closest water body, Milne Inlet, is more than 350 m away and is presently frozen.

Immediate and Follow-Up Action:

A vacuum truck was mobilized to pump out any remaining sewage in the lift station and containment tank. The water was shut off to that side of the BD wing. The influent and discharge line connectors and fittings were replaced and reattached to the lift station. The contaminated material was removed and disposed of in the polishing waste stabilizing pond, a slight amount of contaminated material still remains under the wing.

Recommendations:

Extreme temperature changes which cause the piping and fittings to expand and contract promotes leaks and pipe failures. Ongoing routine inspection of the piping systems are required to inspect for leaks and potential locations of failure. A longer term plan to solve this issue is in development.

Current Status:

The system is back in service and regular inspections are conducted on the sewage lift station and sewer lines to verify there is no leakage throughout.

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

Sincerely,

Allan Knight, B.Sc.

Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Michael Anderson, Erik Madsen, Jim Millard, Allan Knight, Nicolas Kuzyk, Lea Willemse (Baffinland), Erik Allain, (AANDC), Manager of Licencing (NWB)





Photo 1 - Spill location- BD North Wing Lift Station

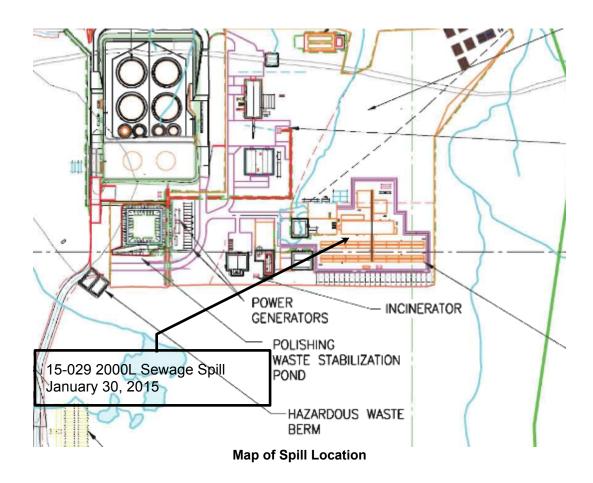


Photo 2 – Initial cause of spill- separation of O-ring from fitting





Photo 3 – Lift station and sewage lines receiving repairs









Canadä

NT-NU SPILL REPORT

OIL. GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8150 FAX: (867) 873-6924 EMAIL: spills#8govint.cs

					REPORT LINE USE ONLY	
Α	01-30-2015	негон 12:3		XORISINAL SPLE REPORT, OR	REPORT NUMBER	
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F	RESPONSIBLE PARTY OR VESSEL NAME Baffinland Iron Mines Corp.		Road East, Suite 3	» 00, Oakville, ON L6H	0C3	
G	NA CONTRACTOR INVOLVED	CONTRACTOR ADDRESS NA	S OH OFFICE LOCATION			
Н	PRODUCT SPILLED Untreated Sewage SECOND PRODUCT SPILLED (F APPLICABLE)	approx. 2 m3	ILOGRAMS OF CUBIC METRE			
I	SPLI SOURCE Lift Station Tank	SPIT CAUSE Crack in Tank	r)	ABEA OF CONTAMINATION IN SOLIABE METRES approx. 50m2		
J	FACTORS AFFECTING SPILL OR RECOVERY Cold/lice conditions	Vacuum truck		HAZARUS FOPERSONS, PRO	PERTY OR ENVIRONMENT	

ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPELLED PRODUCT AND CONTAININGED MATERIALS

On January 30 2015 at 12:30 PM, a worker detected a leak at the PSC BD North Lift Station. He immediately called the Site Services Supervisor, The Environment Coordinator and Site Services Supervisor investigated the report. On investigation, a significant amount of sewage had been released from the lift station. A vacuum truck was mobilized to pump out any remaining sewage in the containment tank. The tank is suspected to be cracked allowing for sewage to spill out. The water was shut off to that side of the BD wing and signs were posted prohibiting water use. Upon further verification of the integrity of the sewage holding tank, a new tank will be installed. The sewage has frozen in place and is not migrating. The closest water body, Milne Inlet, is more than 350 m away and is presently frozen. A preliminary estimate of the spill is two (2) cubic metres, based on the area of contamination of approximately 50 square metres. Further details of the incident and its cause will be provided in the spill follow up report.

L	Allan Knight	Env. Coordinator	Baffinland	Mine Site	647-253-0596	
M	ANY ALTERNATE CONTACT Jim Millard	eosmon Env. Manager			902-403-1337	
		REPOR	T LINE USE ONLY	1444444444		
N	RECEIVED AT SPILLLINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCALON CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (987) 920-0100	
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1110	D SUPPORT AGENCY					

PAGE 1 OF



March 3, 2015

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 swbathory@qia.ca

Re: Follow-up to Spill #15-029, Reported on January 30th, 2015 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On January 2 2015 at 14:00, during routine inspections outside the MSC, ice was observed to have formed around the Mine Site Complex accommodations AE Wing lift station. There was no evidence of liquid at the time of the inspection. Based on the extent and thickness of the ice, it was estimated that 200 litres of untreated sewage was released.

The housing maintainer was notified, investigation found a fitting had cracked on the gravity line going into the lift station. Repairs are being made.

The location of the spill is on the camp pad more than 200 meters from the closest water body which is presently frozen.

Immediate and Follow-Up Action:

The water was shut off to that side of the AE Wing and the fitting was replaced. Due to the accessibility of the location, as much as possible of the contaminated snow and ice was removed and disposed of in the polishing waste stabilizing pond.

Recommendations:

Extreme temperature changes which cause the piping and fittings to expand and contract promotes leaks and pipe failures. Ongoing routine inspection of the piping systems are required to inspect for leaks and potential locations of failure. A longer term plan to solve this issue is in development.

Current Status:

The system is back in service and regular inspections are conducted on the sewage lift station and sewer lines to verify there is no leakage throughout.

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

Sincerely,

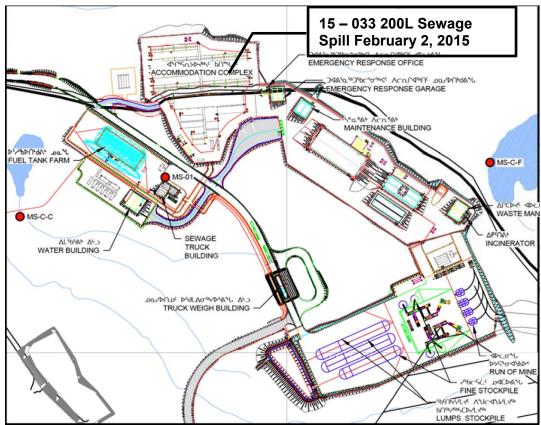
Allan Knight, B.Sc.

Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Michael Anderson, Erik Madsen, Jim Millard, Allan Knight, Nicolas Kuzyk, Lea Willemse (Baffinland), Erik Allain, (AANDC), Manager of Licencing (NWB)





Map of Spill Location







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	-YEAR	100	REPORT TI		XORIGINAL SPILL REI	PORT,				
^	02 02 20 10			14:00		OR		REPORT NUMBER			
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Е	DEGREES 71	MINUTES 18	SECONDS 53	D	ONGITUDE EGREES 79	MINUTES 16	s	ECONDS 57			
F	RESPONSIBLE PARTY OR VES Baffinland Iron Mi	nes Corp.	2275 Midd	dle Roa	ress or office Locati ad East, Suite 3		ON L6H	0C3			
G											
	PRODUCT SPILLED			RES, KILO	GRAMS OR CUBIC METRE						
Н	Sewage	200 litres			NA						
1:1	SECOND PRODUCT SPILLED (NA NA	RES, KILO	GRAMS OR CUBIC METRE	S U.N. NUMBER						
1	SPILL SOURCE		SPILL CAUSE			AREA OF CONTAIN	MINATION IN	SOUARE METRES			
1	Lift Station Overflow				n Joint	10 m2					
J	FACTORS AFFECTING SPILL O	OR RECOVERY	DESCRIBE ANY A	ASSISTANC	E REQUIRED	HAZARDS TO PERSONS, PROPERTY OR ENVIRONMENT					
K	On January 2 2015 at 14:00, during routine inspections outside the MSC, ice was observed to have formed around the AE Wing lift station. There was no evidence of liquid at the time of the inspection. The housing maitainer was notified, investigation found a fitting had cracked on the gravity line going into the lift station. Repairs are being made. The location of the spill is on the camp pad more than 200 meters from the closest water body. Further details of the incident will be provided in the spill follow up report.										
ï	REPORTED TO SPILL LINE BY POSITION										
	Land of State Control of Control of State Control of Co			EMPLOYER Raffin	22	LOCATION CALLING FE	ROM	TELEPHONE 647, 253, 0596			
L	Allan Knight	Env. Coord	inator	Baffin	land	Mine Site		647-253-0596			
М	Allan Knight ANY ALTERNATE CONTACT		inator		land						
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PAGE 1 OF ___1___



March 5, 2015

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 swbathory@qia.ca

Re: Follow-up to Spill #15-036, Reported on February 3rd, 2015 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On February 3, 2015 at 8:30 PM, a worker detected an overflow of untreated sewage at the Port Site Complex accommodations BD wing North Lift Station. Environment and Site Services responded to the sewage release. On Inspection, the spill was caused by the lift station pumps failing to discharge sewage from the containment tank. A blockage in the discharge line, 30ft from the lift station, was the cause for the pumps failing to discharge sewage from the lift station. The blockage gradually accumulated by inactivity within the discharge line while repairs were being completed on the North BD Wing lift station from spill 15-029. It was conservatively estimated that the volume of the spill was 160L, based on an area of contamination of approximately $30m^2$ and thin spill depth. The sewage froze in place and did not migrate further. The closest water body, Milne Inlet, is more than 350 m away and is presently frozen.

Immediate and Follow-Up Action:

A vacuum truck was mobilized to pump out any remaining sewage in the lift station and containment tank and the water was shut off. The frozen sewage blockage was removed, the sewage line repaired, and the pumps checked. The contaminated material was removed and disposed of in the polishing waste stabilizing pond.

Recommendations:

Extreme cold temperature cause sewage in the lines to freeze unexpectedly. Ongoing routine inspections of the lift stations are required to inspect for sewage backups from frozen lines. After recent repairs on lift stations or periods of inactivity in the sewage lines, the lift station and downstream sewage lines will be monitored with particular frequency.

Current Status:

The system is back in service and regular inspections are conducted on the sewage lift station and sewer lines to verify there is no leakage throughout.

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

Sincerely,

Allan Knight, B.Sc.

Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Michael Anderson, Erik Madsen, Jim Millard, Trevor Myers, Nicolas Kuzyk, Lea Willemse (Baffinland), Erik Allain, (AANDC), Manager of Licencing (NWB)





Photo 1 - Spill location- BD North Wing Lift Station

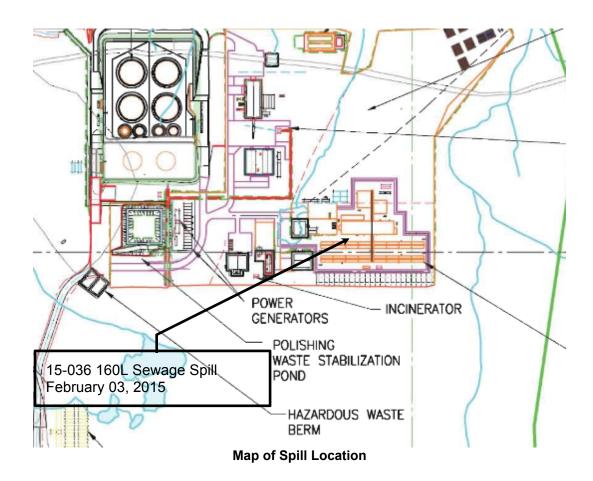


Photo 2 – Pumping out the lift station by vacuum truck





Photo 3 - Spill location post clean up









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	02-02-2015	-YEAR	1000	1:00	IE.	OR	ORIGINAL SPILL REP	ORT,	REPORT NUMBER	
В	OCCURRENCE DATE: MONTH 02-02-2015	– DAY – YEAR	100000	ourren nknov			UPDATE# THE ORIGINAL SPILI	L REPORT	15 - 033	
С	IOL - Commercial		301		AM-MRY132					
D	GEOGRAPHIC PLACE NAME C				REGION	AVUT	□ ADJACENT JUR	RISDICTION	LOR OCEAN	
Е	DEGREES 71	MINUTES 18	SECONDS 53	-	NGITUDE GREES 79		MINUTES 16	5	SECONDS 57	
F	RESPONSIBLE PARTY OR VES Baffinland Iron Mi			Y ADDR	ess or office Loc. d East, Suite			sector (section)	- on Andrew New	
G	ANY CONTRACTOR INVOLVED NA		CONTRACTOR ADDI	RESS OF	OFFICE LOCATION					
	PRODUCT SPILLED Sewage		200 litres	S, KILOG	RAMS OR CUBIC MET	TRES	U.N. NUMBER			
Н	NA NA				RAMS OR CUBIC MET	TRES	U.N. NUMBER			
1	SPILL SOURCE SPILL CAUSE Lift Station Overflow				Joint		10 m2	ination in	SOUARE METRES	
J	FACTORS AFFECTING SPILL C	OR RECOVERY	DESCRIBE ANY ASS	SISTANCE	REQUIRED	HAZARDS TO PERSONS, PROPERTY OR ENVIRONMENT				
K	On January 2 2015 at 14:00, during routine inspections outside the MSC, ice was observed to have formed around the AE Wing lift station. There was no evidence of liquid at the time of the inspection. The housing maitainer was notified, investigation found a fitting had cracked on the gravity line going into the lift station. Repairs are being made. The location of the spill is on the camp pad more than 200 meters from the closest water body. Further details of the incident will be provided in the spill follow up report.									
L	REPORTED TO SPILL LINE BY Allan Knight	POSITION Env. Coordin		PLOYER affinla	and	2000	cation calling FR	ОМ	TELEPHONE 647-253-0596	
М	ANY ALTERNATE CONTACT Jim Millard	POSITION Env. Managei	EMI	PLOYER affinla	*****	ALT	TERNATE CONTACT		ALTERNATE TELEPHONE 902-403-1337	
г			REPORT LINE US	SE ONLY	,	-				
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMI	PLOYER			CATION CALLED		REPORT LINE NUMBER (867) 920-8130	
LEA	AGENCY DEC DCCG DG		□ NEB □TC	SIGNIFIC	CANCE MINOR			ractus - Correspond	US □ OPEN □ CLOSED	
AGE	NCY	CONTACT NAME		CONTAC	TTIME		REMARKS			
LEA	O AGENCY									
	T SUPPORT AGENCY									
	OND SUPPORT AGENCY									
1000	ID SUFFURI AGENUT									

PAGE 1 OF ___1___



March 8, 2015

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

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

Re: Follow-up to Spill 15-039 Reported on February 6th, 2015 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On February 6, 2015, the fuel tanker operator inspected the tanker to ensure it was empty, and then proceeded to engage the fuel pump to fill the tanker fuel compartment. A suspected malfunction of the fuel module's metering device caused the compartment to overflow. Approximately 150 litres of Arctic Diesel (P-50) fuel overflowed from the top of the tanker compartment to the frozen gravel/ice ground within the lined fueling area. All released fuel was contained within the lined refueling area. The closest water body, Milne Inlet, is more than 150 meters away and is currently frozen.

Immediate and Follow-Up Action:

The area was immediately secured and clean-up activities were completed. Absorbent pads were used to absorb any liquid product. Contaminated gravel and ice were removed and deposited in the Milne Port Landfarm for storage and treatment.

Recommendations:

To prevent the reoccurrence of similar incidents, Baffinland's refueling procedure has been reviewed with all tanker truck operators.

Current Status:

The fuel metering device is working properly and the spill has been successfully cleaned up.

Should you require further information or clarification on the above noted spill, please feel free to contact the undersigned or Trevor Myers at (647) 253-0596 Ext. 6010.

Sincerely,

Allan Knight, B.Sc.

Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Michael Anderson, Erik Madsen, Jim Millard, Trevor Myers, Jennifer St. Paul Butler (Baffinland), Erik Allain, (AANDC), Manager of Licencing (NWB).





Photo 1 - Diesel Spill

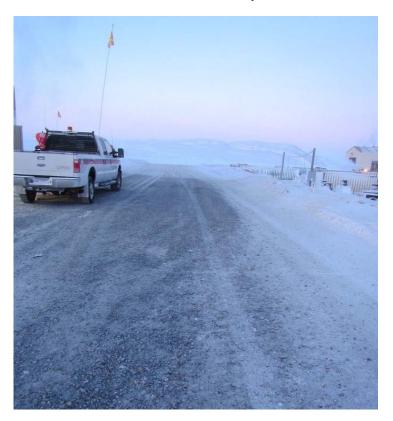


Photo 2 – After Spill Cleanup



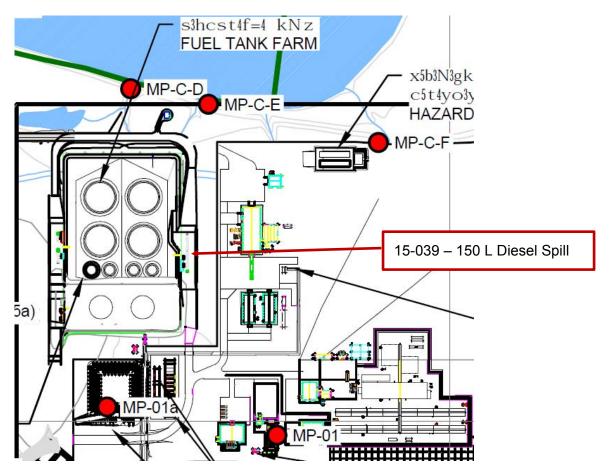


Figure 1 - Milne Port - Spill Location







Canada 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	02-06-2015	-YEAR		07:45		□ ORIGINAL	SPILL REPORT,	REPORT NUMBER	
-	OCCURRENCE DATE: MONTH	I – DAY – YEAR		100000000000000000000000000000000000000	ENCE TIME	OR □ UPDATE#		_ 15 - 039	
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F	Baffinland Iron M				oress or office Loca oad East, Suite		ville, ON L6	H 0C3	
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	N/A N/A				JOHAMS OR CUBIC MET	N/A			
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J	FACTORS AFFECTING SPILL OR RECOVERY Frozen gravel ground surface N/A			ASSISTAN	CE REQUIRED	1919	HAZARDS TO PERSONS, PROPERTY OR ENVIRONMEN None		
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1	REPORTED TO SPILL LINE BY	THE PROPERTY OF THE PARTY OF TH		EMPLOYE		Salar Sa	ALLING FROM	TELEPHONE	
L	Allan Knight	Env. Super	rintendent	Baffir		On-site	1.1	647-253-0596	
M	ANY ALTERNATE CONTACT Jim Millard	Env. Mana	ger	Baffir		ALTERNATE OF		902-403-1337	
			REPORT LIN						
N	RECEIVED AT SPILL LINE BY	POSITION		EMPLOYE	.R	LOCATION C		REPORT LINE NUMBER	
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LEA	D AGENCY								
FIRS	ST SUPPORT AGENCY								
SEC	OND SUPPORT AGENCY								

PAGE 1 OF __



March 9, 2015

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 swbathory@qia.ca

Re: Follow-up to Spill 15-040 Reported on February 8th, 2015 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

At 2:45 PM on February 7, 2015, a worker noticed a wet area around the main sewage line near the Milne Port WWTP. In uncovering the line, it was observed that a fitting on the main sewage line had separated and was leaking sewage. It is estimated that 250 L sewage spilled onto the surrounding camp pad, affecting an area of approximately 20 square meters. The nearest water body, Milne Inlet, is greater than 200 meters away from the spill location and is currently frozen.

Immediate and Follow-Up Action:

The worker immediately notified the Maintenance and Environment Departments and locked out the sewage line by shutting off the main lift station. The vacuum truck was used to drain the line and the fitting was repaired. Accessible contaminated snow and ice was be removed and deposited in the Milne Port PWSP.

Recommendations:

Ongoing inspections of the PSC sewage lines will be conducted on a regular basis to ensure there are no leaks or compromised fittings.

Current Status:

The main sewage line is back in service and regular inspections are conducted on all sewage lines to verify there are no leaks or compromised fittings.

Should you require further information or clarification on the above noted spill, please feel free to contact the undersigned or Trevor Myers at (647) 253-0596 Ext. 6010.

Sincerely,

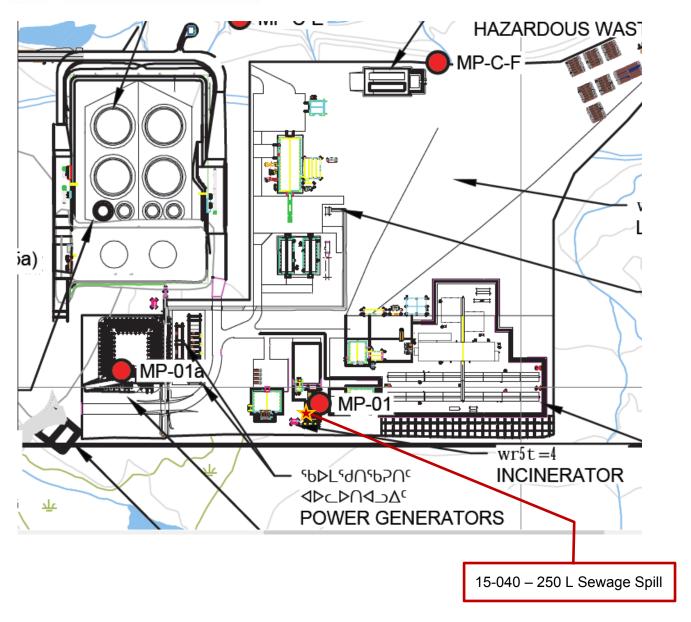
Allan Knight, B.Sc.

Environmental Superintendent

Attach: Map, NT-NU Spill Report

cc. Michael Anderson, Erik Madsen, Jim Millard, Trevor Myers, Jennifer St. Paul Butler (Baffinland), Erik Allain (AANDC), Manager of Licencing (NWB).











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	February 7, 2015	-YEAR		14:45	TIME 5 HRS	100000	ORIGINAL SPILL REPORT,		REPORT NUMBER
В	OCCURRENCE DATE: MONTH February 7, 2015	- DAY -YEAR		OCCUR	RENCE TIME		JPDATE # THE ORIGINAL SPILL REP	ORT	15 - 040
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F	RESPONSIBLE PARTY OR VES Baffinland Iron Mi				dress or office Loc		uite 300 - Oakvi	lle,	ON
G	ANY CONTRACTOR INVOLVED N/A		CONTRACTOR N/A	ADDRESS	OR OFFICE LOCATION				
	PRODUCT SPILLED Sewage (Untreate	ITRES, KIL	OGRAMS OR CUBIC ME	TRES	U.N. NUMBER				
Н	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A OUANTITY IN LIT			ITRES, KIL	OGRAMS OR CUBIC MET	TRES	U.N. NUMBER N/A		
I	SPILL SOURCE Force Main	SPILL CAUSE Equipmer			lure - Fitting		AREA OF CONTAMINATION 20 sq meters	NI NC	SOUARE METRES
J	FACTORS AFFECTING SPILL O	DRS AFFECTING SPILL OR RECOVERY N/A			NCE REQUIRED		HAZARDS TO PERSONS, PROPERTY OR ENVIRONMENT		
K	Milne Port WWTP, separated and wa Environment Depline and the fitting ground, affecting greater than 200 rice will be remove ongoing. More details will be	s leaking sewa artments and si g was repaired. an area of appr neters away fro ed and deposite	ge. The wor nut off the m It is estimate oximately 20 m the spill lo d in the Miln	ker im nain lif ed tha 0 squa ocatio ne Port	mediately notif t station. The v t 250 L sewage are meters. The n and is curren t PWSP. The in	fied vacu spil nea ntly f	the Maintenanc lum truck was u lled onto the su lrest water body frozen. Contami	e ar sec rou , Mi nate	nd I to drain the inding ilne Inlet, is ed snow and
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_	Allan Knight ANY ALTERNATE CONTACT	Env. Superi	nuent	EMPLOY	nland _{ER}		ERNATE CONTACT		Ext. 6010 LITERNATE TELEPHONE
M	Jim Millard	Env. Manag	er	Baffi	nland		line Site	100	Ext. 6016
			REPORT LIN			_			
N	RECEIVED AT SPILL LINE BY	POSITION		EMPLOY	ER		CATION CALLED		EPORT LINE NUMBER
LEA	DAGENCY DEC DCCG DG	STATION OPERATOR		SIGN	IIFICANCE MINOR		LLOWKNIFE, NT		367) 920-8130 JS OPEN CLOSED
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-	D AGENCY								
FIRS	ST SUPPORT AGENCY								
SEC	OND SUPPORT AGENCY								
THIE	RD SUPPORT AGENCY								

PAGE 1 OF _____



March 12, 2015

Resource Management Officer
Nunavut Field Operations
Aboriginal Affairs and Northern Development Canada
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Justin.Hack@aandc-aadnc.gc.ca
Robert Savard@aandc-aadnc.gc.ca

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

Re: Follow-up to Spill 15-044 Reported on February 8th, 2015 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

At 5:00 PM on February 10, 2015, a worker on a routine inspection of the Port Site Complex (PSC) sewage lines discovered that a sewage line fitting (gravity fed) behind the south BD dorm lift station had separated. It is estimated that approximately 150 L of sewage was spilled around the lift station and underneath the accommodations wing, affecting an area of approximately 15 square meters. The nearest receiving waters, Milne Inlet, is greater than 200 meters away from the spill location and is currently frozen.

Immediate and Follow-Up Action:

The worker immediately notified the Environment Department, locked out lift station and began repairs on the fitting. Accessible contaminated snow and ice was be removed and deposited in the Milne Port PWSP.

Recommendations:

Ongoing inspections of the PSC sewage lines will be conducted on a regular basis to ensure there are no leaks or compromised fittings. A long term plan to solve this issue is in development.

Current Status:

The lift station is back in service and inspections of all PSC sewage lines are conducted on a regular basis to verify there are no leaks or compromised fittings.

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

Sincerely,

Trevor Myers, B.A.(Hon.), M.Sc. Environmental Superintendent

Attach: Map, NT-NU Spill Report, Photos

cc. Michael Anderson, Erik Madsen, Jim Millard, Allan Knight (Baffinland),

Erik Allain (AANDC), Manager of Licencing (NWB).



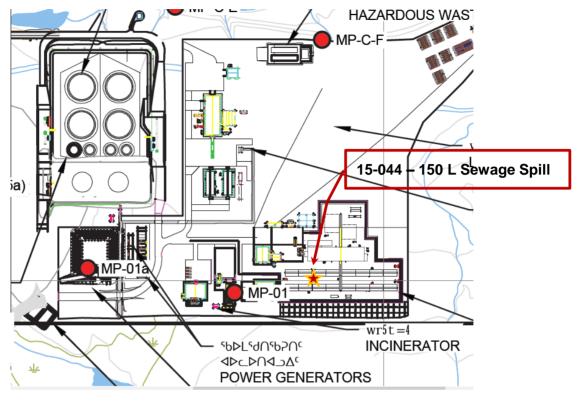




Photo 1: Spill Location









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			
1 A	REPORT DATE: MONTH - DAY - Y	YEAR		REPORT T		T 00	RIGINAL SPILL REPORT.				
A	February 10, 2015			17:00	HRS	OR	IIGIIVAL SPILL REPORT,	REPORT NUMBER			
Б	OCCURRENCE DATE: MONTH - D	DAY - YEAR		OCCURRE	INCE TIME		DATE #	15 044			
В	February 10, 2015			Unkn	nown		HE ORIGINAL SPILL REPORT				
	LAND USE PERMIT NUMBER (IF					NUMBER (IF APPLICABLE)					
С	IOL - Commercial L			2AM-MRY1325 Type "A"							
D	Mary River Project			NU							
Е			SECONDS 03	, '	LONGITUDE DEGREES 80		MINUTES 53	SECONDS 15			
F	RESPONSIBLE PARTY OR VESSE Baffinland Iron Min				ad East, Suite		Oakville, ON L6H	H 0C3			
	ANY CONTRACTOR INVOLVED		CONTRACTOR	ADDRESS (OR OFFICE LOCATION						
G	N/A		N/A								
	PRODUCT SPILLED		QUANTITY IN LI	TRES, KILO	GRAMS OR CUBIC METE		U.N. NUMBER				
ш	Sewage (Untreated)	150 Litre				N/A				
	SECOND PRODUCT SPILLED (IF	APPLICABLE)		TRES, KILO	OGRAMS OR CUBIC METE		U.N. NUMBER				
	N/A		N/A				N/A				
l i	SPILL SOURCE Gravity Fed Sewag	o Lino	SPILL CAUSE	nt Faile	ure - Fitting	- I'	AREA OF CONTAMINATION I	N SQUARE METRES			
Ľ			DESCRIBE ANY		_		15 sq meters				
J	FACTORS AFFECTING SPILL OR N/A	HECOVERY	N/A	ASSISTAN	CE REQUIRED		HAZARDS TO PERSONS, PRO None	OPERTY OR ENVIRONMENT			
Ľ		MMENTS ACTIONS DECIDOS		O CONTAIN	DECOVED OD DISBOSS		SPILLED PRODUCT AND CONTAMINATED MATERIALS				
	On Feb 10, 2015 at 17:00 HRS, a worker on routine inspection of the Port Site Complex sewage lines discovered that a sewage line fitting (gravity fed) behind the south BD dorm lift station had separated. The worker notified the Environment Department and the lift station was locked out. It is estimated that approximately 150 L of sewage was spilled around the lift station and underneath the accommodations wing affecting an area of approximately 15 square meters. Accessible contaminated snow and ice to be removed and deposited in the Milne Port PWSP. The nearest water body, Milne Inlet, is greater than 200 meters away from the spill location and is currently frozen. The fitting is currently being repaired. Further details will be provided in the follow-up spill report.										
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PAGE 1 OF



March 15, 2015

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

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

Re: Follow-up to Spill 15-047 Reported on February 15th, 2015 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

In the Sewage Truck Building at Milne Port, a worker discovered that a tote full of diesel exhaust fluid (a mixture of urea and water, see attached MSDS) had leaked approximately 200 L of its contents onto the surrounding ground, affecting an area of approx. 10 m². The tote had been brought indoors to thaw and it is suspected that the tote had cracked during storage, as once it was brought indoors the tote began to thaw and leak. The nearest receiving waters, Milne Inlet, is greater than 200 m away from the spill location and is currently frozen.

Immediate and Follow-Up Action:

The worker immediately placed the tote on its side to prevent additional product from leaking out and notified his Supervisor. The tote has been removed and placed in the Milne Port hazardous waste berm within secondary containment. The spill cleanup is complete and approximately 1 cubic meter of contaminated soil has been removed and deposited at the Milne Port landfarm for secure storage and treatment.

Recommendations:

In order to avoid future occurrences, Baffinland employees and contractors have been reminded to store all hazardous materials in secondary containment and to regularly inspect the condition of hazardous materials storage containers at their work sites.

Current Status:

The damaged tote is in secondary containment in the Milne Port hazardous waste berm and the spill has been cleaned up.

Should you require further information or clarification on the above noted spill, please feel free to contact the undersigned or Allan Knight at (647) 253-0596 Ext. 6010.

Sincerely,

Trevor Myers, B.A.(Hon.), M.Sc. Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report, MSDS

cc. Michael Anderson, Erik Madsen, Jim Millard, Allan Knight, Jennifer St. Paul Butler (Baffinland), Erik Allain, (AANDC), Manager of Licencing (NWB).



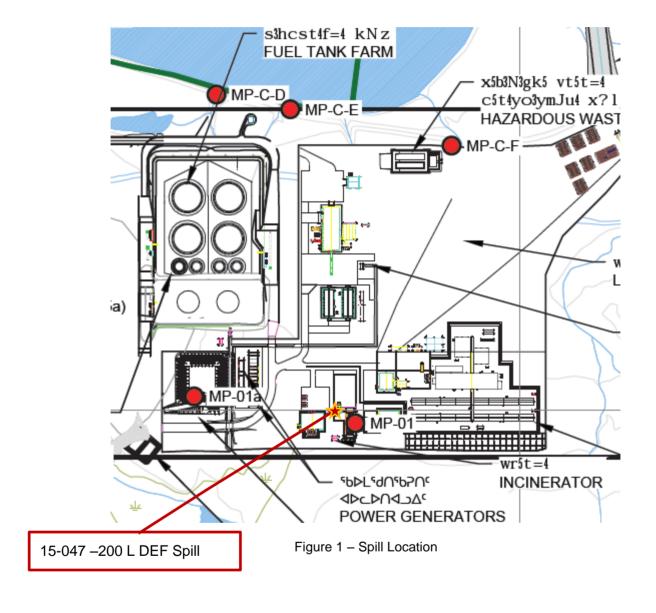


Photo 1 - Diesel Exhaust Fluid Spill



Photo 2 - After Spill Cleanup











Note the Note of Territories Nutravit Canada 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			REPORT TI		□ ORIGINAL SPILL REP	ORT.			
^	February 14, 2015 OCCURRENCE DATE: MONTH			10:45		OR		REPORT NUMBER		
В	February 13, 2015	5		Unknown		TO THE ORIGINAL SPILL	REPORT	15 047		
_	LAND USE PERMIT NUMBER (204		WATER LICENCE NUMBER					
С	IOL - Commercial			2AM-MRY1325 Type "A"						
D	Mary River Project			U	REGION NWT X NUNAV	UT ADJACENT JUR	ISDICTION	OR OCEAN		
Е	DEGREES 71	MINUTES 53	SECONDS 03	D	ONGITUDE EGREES 80	MINUTES 53	SE	CONDS 26		
F	Baffinland Iron M				ness on office Local ad East, Suite	าอง 3 <mark>00, Oakville, O</mark>	N L6H	0C3		
G	ANY CONTRACTOR INVOLVED)		DDRESS O	R OFFICE LOCATION					
u	N/A		N/A							
	Air1 Diesel Exhau	ıst Fluid	200 Litres		GRAMS OR CUBIC METE	Not Regula	ated			
Н	SECOND PRODUCT SPILLED			GRAMS OR CUBIC METE		neu				
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_	SPILL SOURCE		SPILL CAUSE			AREA OF CONTAM	INATION IN	SQUARE METRES		
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J	None	OR RECOVERY	None	SSISTANO	CE REQUIRED	None None	ONS, PROF	PERTY OR ENVIRONMENT		
	ADDITIONAL INFORMATION, O	COMMENTS, ACTIONS PROPO	SED OR TAKEN TO	CONTAIN,	RECOVER OR DISPOSE	OF SPILLED PRODUCT A	ND CONTA	MINATED MATERIALS		
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_	Trevor Myers ANY ALTERNATE CONTACT	Env. Superint		Baffin		Baffin Island,		Ext. 6010		
М	Jim Millard	Env. Manager		Baffin		Baffin Island,		Ext. 6016		
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N	RECEIVED AT SPILL LINE BY	POSITION	E	MPLOYER	1	LOCATION CALLED	- 1	EPORT LINE NUMBER		
Ë		STATION OPERATOR				YELLOWKNIFE, NT	(967) 920-8130		
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PAGE 1 OF ___1__





Material Safety Data Sheet

Air1® Diesel Exhaust Fluid -

Section 1. Chemical product and company identification -

Trade name : Air1® Diesel Exhaust Fluid

Manufacturer : Yara North America, Inc 100 North Tampa Street

Suite 3200 P.O. Box 24926 Tampa, FL 33623

USA

Tel: +1 813 222 5700 Fax: +1 813 875 5735

 Validation date
 : 06.12.2011.

 Print date
 : 06.12.2011.

Responsible name : Bill Easterwood (Technical conditions of use)

Rebecca Lee (Safety and Regulatory information)

In case of emergency : Additional Product Information: 813-222-5700 or Chemtrec 24-hours Emergency Resonse: 1-800-424-9300

Section 2. Hazards identification -

Physical state : Liquid. [Clear.]

Emergency overview : NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN

THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

Potential acute health effects

Eyes : No known significant effects or critical hazards.

Skin : No known significant effects or critical hazards.

Inhalation : Exposure to decomposition products may cause a health hazard. Serious effects may be

delayed following exposure. -

Ingestion : No known significant effects or critical hazards. -

Potential chronic health effects

Chronic effects : No known significant effects or critical hazards.

Carcinogenic effects : No known significant effects or critical hazards.

Mutagenic effects : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation: No specific data.Ingestion: No specific data.Skin: No specific data.Eyes: No specific data.

See toxicological information (Section 11)



Air1® Diesel Exhaust Fluid

Section 3. Composition/information on ingredients

Name CAS number % by weight Urea 57-13-6 32 5 Water 7732-18-5 67.5

Section 4. First aid measures -

Eye contact : - Check for and remove any contact lenses. Immediately flush eyes with plenty of water

for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.

: -In case of contact, immediately flush skin with plenty of water for at least 15 minutes Skin contact

while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.

Inhalation : -Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms occur.

: -Wash out mouth with water. Do not induce vomiting unless directed to do so by medical Ingestion

personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

Protection of first-aiders : -No action shall be taken involving any personal risk or without suitable training. : -In case of inhalation of decomposition products in a fire, symptoms may be delayed. The Notes to physician exposed person may need to be kept under medical surveillance for 48 hours.

Section 5. Fire-fighting measures -

Flammability of the product : -Non-flammable.

Extinguishing media

Suitable

: Use an extinguishing agent suitable for the surrounding fire. Products of combustion : These products are

carbon dioxide carbon monoxide nitrogen oxides Ammonia

Fire-fighting media and

instructions

: -In case of fire, use water spray (fog), foam, dry chemical or CO2.

Special protective equipment for fire-fighters : - Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures -

Personal precautions : - No action shall be taken involving any personal risk or without suitable training.

Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal

protective equipment (see Section 8).

Environmental precautions : - Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

Methods for cleaning up

Small spill

: -Stop leak if without risk. Material free from contamination can be used for its original purpose. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Page: 2/6



Air1® Diesel Exhaust Fluid

Large spill

: -Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Section 7. Handling and storage -

Handling

: -Avoid contact with eyes, skin and clothing. Ensure eyewash facilities are located close to the working environment.

Storage

: -Keep container tightly closed. Keep container in a cool, well-ventilated area. Keep away from heat and direct sunlight.

Section 8. Exposure controls/personal protection -

Engineering measures

: -No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Hygiene measures

: -Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure eyewash facilities are located close to the working environment.

Personal protection

Eyes

: -Safety eyewear complying with an approved standard should be used when a risk - assessment indicates this is necessary to avoid exposure to liquid splashes, mists or -dusts. Recommended: Chemical splash goggles or face shield. -

Skin

: -Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

Respiratory

: -Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: If ventilation is inadequate, use respirator that will protect against dust/mist.

Hands

: -Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. >8 hours (breakthrough time): butyl rubber, natural rubber (latex), nitrile rubber

Personal protective equipment (Pictograms)



Product name

Exposure limits

Urea

AIHA WEEL (United States, 5/2010). TWA: 10 mg/m³ 8 hour(s).

Section 9. Physical and chemical properties -

Physical state : Liquid. [Clear.] Color : Colorless. -

Odor : Ammoniacal. [Slight] -

pH : 9,8 to 10 [Conc. (% w/w): 10%] -

Boiling/condensation point : Decomposition temperature: 100°C (212°F) -

Melting/freezing point : -11,5°C (11,3°F) -

Density (g/cm³) : -1,09 g/cm³ [20°C (68°F)]

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Air1® Diesel Exhaust Fluid

: 6.4 kPa (48 mm Hg) (at 40°C) Vapor pressure

Miscible in water.

Section 10. Stability and reactivity -

Stability and reactivity Possibility of hazardous

reactions

: Stable under recommended storage and handling conditions (see section 7). -

: Under normal conditions of storage and use, hazardous reactions will not occur. -

Incompatibility with various substances

: Highly reactive or incompatible with the following materials: oxidizing materials, acids -

and alkalis.

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should -

not be produced. -

Hazardous polymerization

: Under normal conditions of storage and use, hazardous polymerization will not occur. -

Section 11. Toxicological information -

Potential acute health effects

Inhalation : Exposure to decomposition products may cause a health hazard. Serious effects may

be delayed following exposure.

Ingestion : No known significant effects or critical hazards. -Skin contact : No known significant effects or critical hazards. -Eve contact : No known significant effects or critical hazards. -

Product/ingredient name -Result **Species** Dose Exposure

LD50 Oral Urea -Mouse 11 g/kg LD50 Oral Rat 8471 mg/kg

Section 12. Ecological information -

Environmental effects

: -Readily biodegradable

Aquatic ecotoxicity

Product/ingredient name

Urea

Test Result Acute EC50 3910000 ug/L Fresh

water

Species Exposure Daphnia - Water 48 hours flea - Daphnia

magna - Neonate - <24 hours

- Acute LC50 >1000 mg/L Marine

water

Crustaceans -48 hours Amphipod -

96 hours

Chaetogammarus marinus - Young

5 mm

Acute LC50 16700 to 19600 ug/L

Fresh water

Fish - Rohu -Labeo rohita -

Egg

Conclusion/Summary -

Biodegradability -

: - Not available.

Conclusion/Summary -: The product does not show any bioaccumulation phenomena.

Section 13. Disposal considerations -

Waste disposal

: - The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Consult your local or regional authorities.

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Air1® Diesel Exhaust Fluid

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	_	-			-
Mexico Classification	Not regulated.	-	-	-		-

Section 15. Regulatory information -

HCS Classification

Not regulated.

U.S. Federal regulations

TSCA 8(a) IUR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No

products were found.

Clean Air Act (CAA) 112 accidental release prevention: No products were found.

Clean Air Act Section 112(b) Hazardous Air

: Not listed

Pollutants (HAPs)

Clean Air Act Section 602 : Not listed

Class I Substances

Clean Air Act Section 602 : Not listed

Class II Substances

: Not listed

DEA List I Chemicals (Precursor Chemicals)

DEA List II Chemicals (Essential Chemicals)

: Not listed

State regulations

: Connecticut Carcinogen Reporting: None of the components are listed.

Connecticut Hazardous Material Survey: None of the components are listed.

Florida substances: None of the components are listed.

Illinois Chemical Safety Act: None of the components are listed.

Illinois Toxic Substances Disclosure to Employee Act: None of the components are

listed

Louisiana Reporting: None of the components are listed. Louisiana Spill: None of the components are listed. Massachusetts Spill: None of the components are listed.

Massachusetts Substances: None of the components are listed. Michigan Critical Material: None of the components are listed.

Minnesota Hazardous Substances: None of the components are listed. New Jersey Hazardous Substances: None of the components are listed.

New Jersey Spill: None of the components are listed.

New Jersey Toxic Catastrophe Prevention Act: None of the components are listed. New York Acutely Hazardous Substances: None of the components are listed. New York Toxic Chemical Release Reporting: None of the components are listed. Pennsylvania RTK Hazardous Substances: None of the components are listed.

Page: 5/6



Air1® Diesel Exhaust Fluid

Rhode Island Hazardous Substances: None of the components are listed.

United States inventory

(TSCA 8b)

; All components are listed or exempted.

Section 16. Other information -

National Fire Protection Association (U.S.A.)

Health 0 0 Instability
Special

References : -Regulation (EC) No 1272/2008 Annex VI

EU REACH IUCLID5 CSR

National Institute for Occupational Safety and Health, U.S. Dept. of Health, Education,

and Welfare, Reports and Memoranda Registry of Toxic Effects of Chemical Substances

Atrion International Inc. 4777 Levy Street, St Laurent, Quebec HAR 2P9, Canada

 Date of issue : 06.12.2011.

 Date of previous issue
 : 08.06.2011.

 Version : 4.02

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information provided in this Product Information Sheet is accurate as at the date of its issue. The information it contains is being given for safety guidance purposes and relates only to the specific material and uses described in it. This information does not necessarily apply to that material when combined with other material(s) or when used otherwise than as described herein. Final determination of the suitability of any material is the sole responsibility of the user. All materials may represent unknown hazards and should be used with caution. Yara International ASA disclaims any liability for loss or damage resulting from the use of any data, information or recommendations set out in this Product Information Sheet.



April 3, 2015

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 swbathory@qia.ca

Re: Follow-up to Spill #15-089, Reported on March 12th, 2015 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On March 11, 2015 at 17:00, a leak was observed under a ground thawing unit located at Km 38 of the Tote Road. The unit was positioned on the frozen stream at crossing CV099. Approximately 1L of engine oil escaped from an improperly positioned dip stick and was released onto the frozen stream ice surface. There was no spill tray in place to prevent the oil from leaking directly onto the stream bed.

Immediate and Follow-Up Action:

Upon discovery, a spill tray and absorbent material was put underneath the leak to prevent further release to the receiving environment. Repairs were then made to the unit to stop the leak. Approximately 0.2 m³ of impacted snow and gravel was recovered and transported/disposed of in the landfarm facility at Milne Port. The ground thawing unit was subsequently inspected, found to be in good working order with no further leaks, and put back into service by the maintenance department. A large spill tray was installed to protect the ground / stream bed under the unit. The Operations Group, who are responsible for the operation of the ground thaw unit, were reminded that ongoing utilization of spill trays and monitoring of same are key requirements of our environmental permits.

Recommendations:

Baffinland have previously developed and implemented a site wide document for the use of spill trays. The requirement for the use of spill trays and spill response material on hand has been communicated by means of the 2014 Environmental Protection Plan training (a requirement for all supervisory personnel on site), routine tool box meetings, and other forms of communication, see attached Spill Tray Use Guidelines document which is routinely communicated to site personnel. Ongoing inspections and monitoring of the use of spill trays is standard practice at site.

Current Status:

The Ground Thaw Unit is back in service. Regular inspections are conducted on the ground thawing unit and other equipment to check for leakage and to ensure spill tray use.

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:

Nicolas Kuzyk,

Allan Knight, B.Sc.

Environmental Coordinator

Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report, Spill Tray Use Guidelines

cc. Michael Anderson, Erik Madsen, Jim Millard, Trevor Myers, Lea Willemse (Baffinland), Robert Savard, Erik Allain, (AANDC), Manager of Licencing (NWB)





Photo 1 - Spill location- Oil dripping from the unit (left)



Photo 2 - Engine oil onto ground - less than 1L





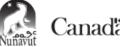
Photo 3 - Spill location post clean up



Map of Spill Location







Canadä NT-NU SPILL REPORT

NT-NU 24-HOUR SPILL REPORT LINE

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

Norin T	erritories Nunavut	0	IL, GASOLINE, CHE	MICALS AND OTHER HA	ZARDOUS MAT	TERIALS		EMAIL: spills@gov.nt.
Α	03-12-2015		1	PORT TIME 4:30	OR	IGINAL SPILL RE	PORT,	REPORT NUMBER
В	03-11-2015			17:00		DATE # IE ORIGINAL SPI	LL REPORT	15 - 089
С	IOL - Commercial		301	2AM-MRY				
D	Mary River Project			NIII I	NUNAVUT	☐ ADJACENT JU	RISDICTION	OR OCEAN
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G	N/A)	N/A	RESS OR OFFICE LOCA	TION			
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Н	SECOND PRODUCT SPILLED	(IF APPLICABLE)	QUANTITY IN LITRE	ES, KILOGRAMS OR CUBI	IC METRES U	J.N. NUMBER		
I	SPILL SOURCE Ground Thawing	Unit	SPILL CAUSE Oil Leak			AREA OF CONTAI		SQUARE METRES meters
J	FACTORS AFFECTING SPILL CO		DESCRIBE ANY ASSISTANCE REQUIRED N/A			HAZARDS TO PERSONS, PROPERTY OR ENVIRONMEN N/A		
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L	REPORTED TO SPILL LINE BY Trevor Myers	POSITION Enviro Superi		PLOYER		TION CALLING FI		ELEPHONE 647-253-0596
M	ANY ALTERNATE CONTACT Jim Millard	POSITION Enviro Manag		PLOYER		RNATE CONTACT	1	1. TERNATE TELEPHONE 902-403-1337
Г			REPORT LINE U	SE ONLY				
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EM	IPLOYER	LOCA	TION CALLED		
LEA	D AGENCY DEC DCCG DC	SNIME CON CUA CUNAC	CAUSE C. 20		YELL	2111den 2, 141		REPORT LINE NUMBER 867) 920-8130
AGE	DAGENOT LEG LOGG LC	SNW1 GR GILA GINAC	LINEB LITC	SIGNIFICANCE MINO			FILE STATU	
		CONTACT NAME	LINEB LIC	SIGNIFICANCE MINO	R MAJOR		FILE STATU	867) 920-8130
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ENVIRONMENTAL BULLETIN NO. 4 USE OF SPILL TRAYS AT SITE



Introduction

Minor spills from mobile vehicles and equipment in use will be identified and controlled by ensuring pre-use inspections are implemented *without exception*. The implementation of robust and effective preventive maintenance programs and daily equipment checks are best protective measures that can be taken with regard to spills originating from mobile vehicles and equipment that are in service. When issues (non-conformances) are identified, immediate action shall be completed to correct any non-conformance (i.e., use of proper spill tray and/or spill tray repair).

Despite the enforcement and use of pre-use operations inspections, small hydrocarbon leaks/spills are still highly probable. In an effort to minimize or eliminate environmental impact from these spills, the Spill Tray Use Standard has been implemented and will be enforced at both the Milne Port and Mary River sites.

Spill Tray Use Requirements

- Spill trays shall be used under vehicles that are in mid- and long-term storage (i.e., more than one week). Specific positioning of spill trays under vehicles will be based on an analysis of the most likely sites for hydrocarbon leaks from the subject vehicle.
- Spill trays shall be used under temporary equipment such as portable generators, frost fighters, and light plants to capture any overflow during refueling or spillage resulting from other causes.
- Spill trays shall be used routinely outside and inside the mechanics shops prior to, and subsequent to maintaining vehicles and equipment to contain any residual drips originating from all repairs.
- While vehicles and equipment are being fueled or serviced, spill trays shall be placed under nozzles and work locations to capture any dripping.
- All hazardous materials and wastes are to be stored in secondary containment. Spill trays are ideal for storing small volumes (i.e., <205 L) of hazardous material and hazardous waste. Other alternatives for storage of both small and larger quantities of hazardous materials and waste include:
 - designated lined and contained areas; or
 - Shipping containers located at the laydown areas.

Should you have any questions or concerns, please do not hesitate to contact BIM Environment.





April 15, 2015

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 swbathory@qia.ca

Re: Follow-up to Spill #15-099, Reported on March 17th, 2015 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

At 05:45 hrs on March 17, 2015, the running and alarm lights were disengaged at the Waste Water Treatment Plant (WWTP) at the Mary River Mine Site. Upon arrival at the plant, the operator observed that raw sewage flowing from the main lift station at the MSC to the WWTP was overflowing from the screener tank located inside the WWTP causing approximately 2,000 L to be released to the snow covered ground surface outside of the WWTP. At the time of the incident, the main power supply to the WWTP was engaged, however no power was being supplied to the WWTPs Programmable Logic Controller (PLC). With no power supply to the PLC, the plant lost function. A reboot and reset of the PLC was initiated, but was unsuccessful, and the potable water to the MSC was immediately shut-off. The location of the spill was on the camp pad and greater than 100 metres from the closest water body which is presently frozen.

Immediate and Follow-Up Action:

BIM Electricians arrived at the WWTP and successfully rebooted the PLC, this brought it back on-line and the WWTP was restarted. Once the plant was able to draw tank levels down to a safe range, the potable water to the MSC was turned back on at the WTP. The released sewage was contained by pooling and freezing on the ground surface outside of the WWTP (see photos below). The contaminated snow was excavated from the ground surface and transported to PWSP No. 1, a lined sewage storage pond, for safe disposal.

Recommendations:

To prevent future power losses to the PCL controls, Baffinland will install a UPS (Uninterruptable Power Supply – Power Conditioner). In the interim, increased monitoring of the PLC and power supply has been initiated to identify further indications of problems.

Current Status:

& Willeman

The Mine Site WWTP is currently fully operational and has had no loss of power supply to the PCL since this incident.

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:

Lea Willemse, Jim Millard

Environmental Coordinator Environmental Manager

Attach: Photos, Map, NT-NU Spill Report

cc. Michael Anderson, Erik Madsen, Trevor Myers, Robert Savard, Erik Allain, (AANDC), Manager of Licencing (NWB)





Photo 1 - Spill location - Mine Site WWTP



Photo 2 - Spill Location - Mine Site WWTP





Photo 3 - Spill Location - Mine Site WWTP



Photo 4 - Clean Up - Mine Site WWTP



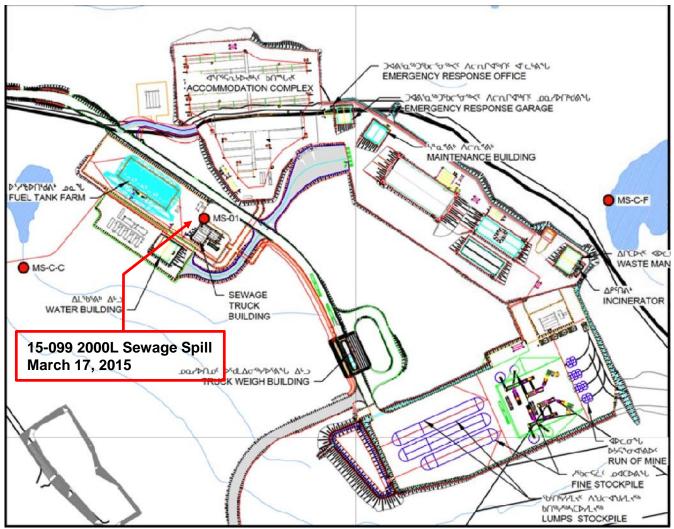


Photo 5 - Clean Up - Mine Site WWTP



Photo 6 - Clean Up - Mine Site WWTP





Map of Spill Location







Northwest leriflories Nunavut Canada NT-NU SPILL REPORT OIL. GASOLINE. CHEMICALS AND OTHER HAZARDOUS MATERIAL

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE TEL: (867) 920-8130 FAX: (867) 873-6924 EMAIL: spills@gov.nt.ca

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Н	SECOND PRODUCT SPILLED (IF APPLICABLE)	Charles St.	ITRES, KILO	GRAMS OR CUBIC METR	TO SERVICE CONTROL OF THE PROPERTY OF THE PROP			
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PAGE 1 OF 1



April 5, 2015

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 swbathory@qia.ca

Re: Follow-up to Spill #15-117, Reported on March 27th, 2015 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

At 19:00 hrs on March 27, 2015, while clearing snow a worker noticed a fresh sewage spill beside the south AG wing lift station at the Mine Site accommodation complex. Upon investigation, the discharge pipe from the lift station had come unglued from a union causing the sewage leak. Based on the extent of the affected area, it was conservatively estimated that 200 litres of untreated sewage was released. The discharge pipe was reattached to the union.

The location of the spill was on the camp pad and greater than 200 metres from the closest water body which is presently frozen.

Immediate and Follow-Up Action:

A vacuum truck was used to pump out the lift station and the lift station pumps were shut off, until the discharge pipe could be reattached to the union. Accessible contaminated snow and ice was removed and disposed of in the Polishing Waste Stabilization Pond (PWSP).

Recommendations:

Extreme temperature changes, which cause the piping and fittings to expand and contract, promotes leaks and pipe failures. Ongoing routine inspection of the piping systems are required to inspect for leaks and potential locations of failure. A longer term plan to improve this situation is being developed.

Current Status:

The system is back in service and regular inspections are conducted on the sewage lift station and sewer lines to verify the system is working as designed.

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, Allan Knight, B.Sc.

Environmental Coordinator Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Michael Anderson, Erik Madsen, Jim Millard, Trevor Myers, Nicolas Kuzyk, Lea Willemse (Baffinland), Robert Savard, Erik Allain, (AANDC), Manager of Licencing (NWB)



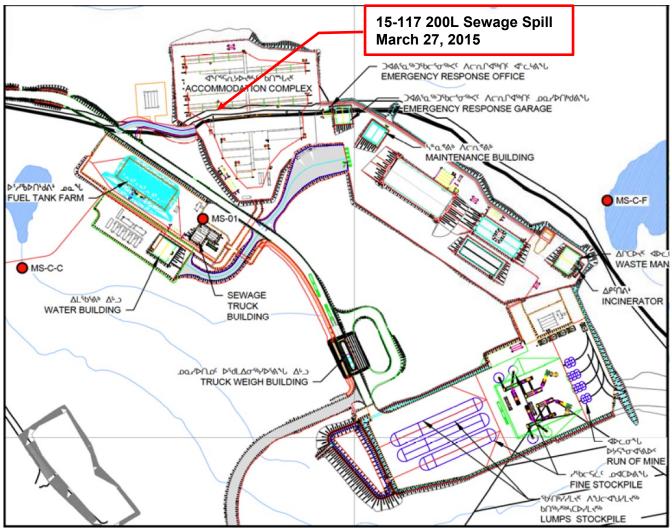


Photo 1 - Spill location- AG South Wing Lift Station Discharge Pipe





Photo 2 - Repair made on discharge pipe



Map of Spill Location







Canada 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	-YEAR		REPORT TI	ME	x	ORIGINAL SPILL REPO	ORT.	
А	March 27, 2015			19:30 OCCURRE		OR			REPORT NUMBER
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J			Vacuum	Truck					
	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS								
		larch 27, 2015, wh							
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PAGE 1 OF.



April 30, 2015

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 swbathory@qia.ca

Re: Follow-up to Spill #15-123, Reported on March 31st, 2015 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

At 16:00 hrs on March 31, 2015, during routine inspections, frozen sewage was discovered underneath the snow around the lift station on the North side of the AF wing at the Mine Site Complex. Initially it was suspected that the spill originated from a broken and frozen outlet pipe near the lift station, causing approximately 1000L of sewage to spill to the adjacent ground surface. However, after further investigation, the discharge pipe was found to be intact with no leak present and the sewage discovered was in fact residual sewage from the 5000L spill (14-431) in December, 2014, that had migrated under the AG wing from the AF wing lift station.

The location of the spill was on the camp pad and greater than 200 metres from the closest water body which is presently frozen.

Immediate and Follow-Up Action:

Snow surrounding the lift station and sewage lines was removed to assess the spill extent and cause. Accessible contaminated snow and ice was removed and disposed of in the Polishing Waste Stabilization Pond (PWSP).

Recommendations:

Extreme temperature changes, which cause the piping and fittings to expand and contract, promotes leaks and pipe failures. Ongoing routine inspection of the piping systems are required to inspect for leaks and potential locations of failure. A longer term plan to improve this situation is being developed.

Current Status:

The system is in service and regular inspections are conducted on the sewage lift station and sewer lines to verify the system is working as designed

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,

Bell Bander

Environmental Coordinator

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

Attach: Photos, Map, NT-NU Spill Report

cc. Michael Anderson, Erik Madsen, Jim Millard, Trevor Myers, Nicolas Kuzyk, Lea Willemse (Baffinland), Robert Savard, Erik Allain, (AANDC), Manager of Licencing (NWB)



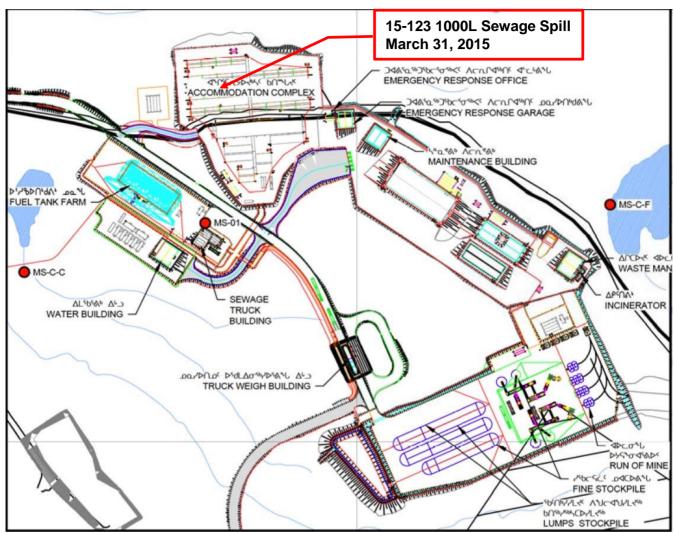


Photo 1 - Spill location- AF North Wing Lift Station Discharge Pipe



Photo 2 – Frozen sewage encasing half of the discharge pipe





Map of Spill Location







Notified Surface Canada 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	March 31, 2015	/ – YEAR		16:00	6:00 X		ORIGINAL SPILL REPORT,		REPORT NUMBER
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М	Trevor Myers	Env. Superint	tendent	Baffi	nland		Off Site		647-253-0596
		'	REPORT LIN	E USE O	NLY				
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SEC	OND SUPPORT AGENCY								
THIR	THIRD SUPPORT AGENCY								



May 2, 2015

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

Manager, Major Projects Qikiqtani Inuit Association P.O. Box 219 Igaluit, NU X0A 0H0 swbathory@qia.ca

Re: Follow-up to Spill #15-130, Reported on April 4th, 2015 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On April 3, 2015 at 20:00, a pool of untreated sewage was noticed beside the south AG wing lift station at the Mine Site Accommodation Complex (MSC). Upon further investigation, a coupling from a previous repair on the lift station discharge line had failed. Based on the extent of the affected area around the lift station, 10m², it was conservatively estimated that 200 litres of untreated sewage was released.

The location of the spill was on the camp pad and greater than 200 metres from the closest water body which is presently frozen.

Immediate and Follow-Up Action:

A vacuum truck was used to pump out the lift station after the pumps were shut off. The lift station was monitored until the coupling was repaired. Accessible contaminated snow and ice was removed and placed in the Mine Site Polishing Waste Stabilization Pond (PWSP).

Recommendations:

Extreme temperature changes, which cause the piping and fittings to expand and contract, promotes leaks and pipe failures. Ongoing routine inspection of the piping systems are required to inspect for leaks and potential locations of failure. A longer term plan to improve this situation is being developed.

Current Status:

The joint has been repaired and the sewage line is back in service. Regular inspections are conducted on the sewage lift station and sewer lines to verify the system is working as designed

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.

Rell Bourder

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

Attach: Photos, Map, NT-NU Spill Report

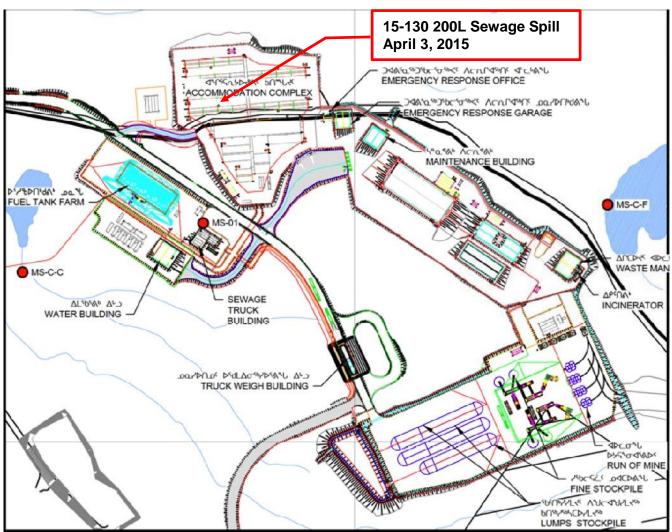
Michael Anderson, Erik Madsen, Jim Millard, Trevor Myers, Nicolas Kuzyk, Lea Willemse (Baffinland), CC. Robert Savard, Erik Allain, (AANDC), Manager of Licencing (NWB)



Photo 1 - Spill location- AG South Wing Lift Station Discharge Pipe



Photo 2 - Discharge Pipe Being Repaired



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: spilis@gov.nt.ca

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tern ele	OF SURPOSE LOCKEY									

PAGE 1 OF 1



May 8, 2015

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 swbathory@qia.ca

Re: Follow-up to Spill #15-138, Reported on April 9th, 2015 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On April 8, 2015 at 8:00 PM, maintenance staff were notified of the smell of sewage in the Mine Site Complex (MSC) Arctic Corridor between the kitchen and the AG dorm wing. Upon further inspection, it was discovered that a joint on the sewage line that discharges the south AG Dorm lift station had failed. The sewage spill affected an area of approximately 20 square meters underneath the MSC Arctic Corridor and was estimated to be 300 litres.

The location of the spill was on the camp pad and greater than 150 metres from the closest water body which is presently frozen.

Immediate and Follow-Up Action:

A vacuum truck was used to pump out the lift station. The lift station was monitored until the joint was repaired. Accessible contaminated snow and ice was removed and placed in the Mine Site Polishing Waste Stabilization Pond (PWSP).

Recommendations:

Extreme temperature changes, which cause the piping and fittings to expand and contract, promotes leaks and pipe failures. Ongoing routine inspection of the sewage lines are required to inspect for leaks and potential locations of failure. A long term solution is currently being developed.

Current Status:

The joint has been repaired and the sewage line is back in service. Regular inspections are conducted on the sewage lift stations and sewer lines to verify the system is working as designed.

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:

Andrew Vermeer, Allan Knight

Environmental Coordinator Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Michael Anderson, Erik Madsen, Jim Millard, Trevor Myers, Nicolas Kuzyk, Lea Willemse (Baffinland), Robert Savard, Erik Allain, (AANDC), Manager of Licencing (NWB)





Photo 1 – Failed Joint



Photo 2 – Sewage Spill underneath MSC Arctic Corridor





Photo 3 – Repaired Joint



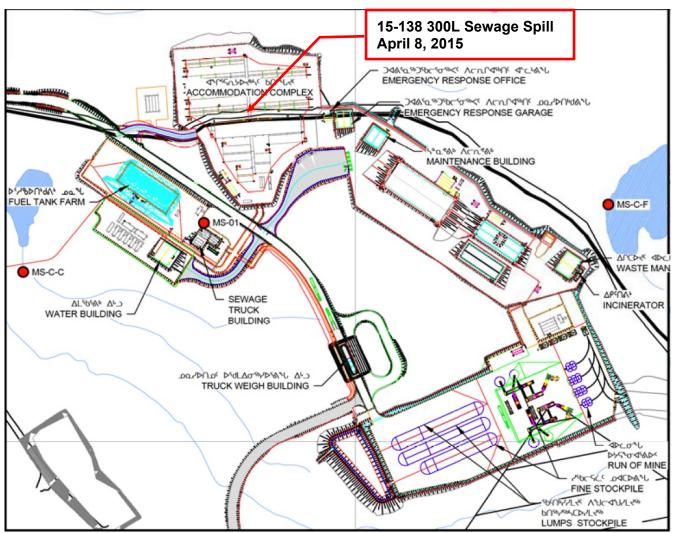


Figure 1 - Spill Location









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-YEAR		REPORT			ORIGINAL SPILL RE	PORT.		
^	April 9, 2015	PAN NEAD			HRS	0			REPORT NUMBER	
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M	Andrew Vermeer	Env. Coordina	ator	Baffi	nland	Į.	Mary River M	line	Ext. 6039	
г			REPORT LIN	E USE O	NLY					
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	THIRD SUPPORT AGENCY									

PAGE 1 OF

Figure 2 - NT-NU Spill Report



June 7, 2015

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

Re: May 6, 2015 Mine Site Exploration Camp Genset Bladder Diesel Spill, NT-NU Spill Report #15-183 Mary River Project - Water Licence No. 2AM-MRY1325

Dear Mr. Hack:

This letter is to provide an update to the spill that occurred during an inspection of the Mine Site Exploration Camp Genset Bladder berm. A measurable thickness of fuel was observed May 6 on top of the existing P-50 diesel bladder. The spill is entirely contained within the engineered lined containment that is inspected annually by a qualified Geotechnical Engineer. Based on daily monitoring around the foot of the berm of the facility and downstream, there is no observed leakage to the receiving environment from the facility. The majority of the fuel in the bladder had been pumped out in the fall of 2014 to prepare for decommissioning of the facility this summer. Only a minimal amount of fuel was left in the bladder that could not be removed.

Skimming of the free-product has commenced now that the ice and snow has melted. Once most of the free-product has been collected, the remaining contaminated meltwater will be treated and released using our portable oily water treatment system. In the interim, daily monitoring of the stormwater level in the facility is being undertaken. In the event stormwater levels in the facility rise to an unacceptable level due to rainfall events, water will be transferred to other secure facilities

Further details will be provided in a summary report upon completion of cleanup/decommissioning of this facility.

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

James Millard, M.Sc. P. Geol.

Prepared By: Reviewed by:

Allan Knight, B.Sc.

alla Kijlo

Environmental Superintendent Environmental Manager

Attach: A – Original Spill Report

cc. Jim Millard, Trevor Myers, Oliver Curran, Erik Madsen (Baffinland),

Justin Hack, Robert Savard, Scott Burgess, (AANDC)





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	May 7, 2015	-YEAR	16:0	TIME D HRS	OF	ORIGINAL SPILL REPORT,	REPORT NUMBER		
В	OCCURRENCE DATE: MONTH- May 6, 2015	- DAY - YEAR		RENCE TIME		UPDATE # THE ORIGINAL SPILL REF	PORT 15 - 183		
		F 100 10 10 10 1	Oliki	WATER LICENCE NUMBER (IF APPLICABLE)					
С	IOL - Commercial			2AM-MR					
	GEOGRAPHIC PLACE NAME O	R DISTANCE AND DIRECTION FRO	M NAMED LOCATION						
D		Site, Baffin Island, NU	J		X NUNAVUT	☐ ADJACENT JURISDIC	CTION OR OCEAN		
Ε	LATITUDE			LONGITUDE					
			ONDS 30	DEGREES 75	9	MINUTES 22	SECONDS 27		
F	RESPONSIBLE PARTY OR VES Baffinland Iron Mi			Y ADDRESS OR OFFICE LOCATION Road East, Sutie 300, Oakville, ON L6H 0C3					
	ANY CONTRACTOR INVOLVED	TO A CONTROL OF THE PROPERTY O		the contract of the contract o					
G	N/A	19.59	CONTRACTOR ADDRESS OR OFFICE LOCATION N/A						
	PRODUCT SPILLED	QUA	ANTITY IN LITRES, KI	OGRAMS OR CU	BIC METRES	U.N. NUMBER			
Н	P-50 Diesel		00 L			N/A			
П	SECOND PRODUCT SPILLED (ANTITY IN LITRES, KII	OGRAMS OR CU	BIC METRES	U.N. NUMBER			
	N/A	N/	15076			N/A			
1	SPILL SOURCE SPILL CAUSE Fuel Bladder Under Inves			ation		area of contaminati 20m2	ON IN SQUARE METRES		
J	FACTORS AFFECTING SPILL OR RECOVERY Snow & Ice in facility DESCRIBE ANY AS: N/A			NCE REQUIRED		HAZARDS TO PERSONS	PROPERTY OR EQUIPMENT		
_	A PERSONAL PROPERTY OF THE CHARGE PROPERTY OF THE PROPERTY OF THE	OMMENTS, ACTIONS PROPOSED	1751771			12/2020/2020			
K	be removed. The spill location	this summer. Only a is greater than 150 n the incident will be p	neters from t	he nearest	water b	ody which is cu			
	REPORTED TO SPILL LINE BY	DOCITION	EMPLO	/CD	lic	OCATION CALLING FROM	TELEPHONE		
L	Allan Knight	Env. Superintend		nland		Mary River Mine	Ext. 6010		
М	ANY ALTERNATE CONTACT Bill Bowden	POSITION Env. Coordinator	EMPLOY Baffi	ren nland		TERNATE CONTACT Mary River Mine	Ext. 6039		
		R	EPORT LINE USE O	NLY					
N 1	RECEIVED AT SPILL LINE BY	POSITION	EMPLOY	ER	LC	OCATION CALLED	REPORT LINE NUMBER		
N		STATION OPERATOR			YE	LLOWKNIFE, NT	(867) 920-8130		
LEA	AGENCY DEC DCCG DG	NWT GN GILA GINAC GN	IEB □TC SIGN	NIFICANCE MIN	NOR - MAJO	R DUNKNOWN FILE	STATUS □ OPEN □ CLOSED		
AGE	NCY	CONTACT NAME	CON	ITACT TIME		REMARKS			
LEA	O AGENCY								
FIRS	T SUPPORT AGENCY						2		
SEC	OND SUPPORT AGENCY								
THIE	ND SUPPORT AGENCY								

PAGE 1 OF ___



Incident Report

To: File

From: James Millard, Environmental Manager

Cc: Erik Madsen, Michael Anderson, Oliver Curran, Trevor Myers, Allan Knight

Date July 6, 2015

Re: Mary River Project, Mine Site Haul Road Sediment Release - June 26 and 27, 2015.

1. Background

On June 26 and 27, there was a snowmelt event along with some heavy rain on the Mine Haul Road which caused some erosion of the road embankment and ditching system, especially between kilometre markers 107 to 108. The event resulted in some short term siltation to Mary River, via a non-fisheries drainage. In accordance with the Water Management Plan, water management controls were implemented, that included construction of numerous silt fences, check dams, and the redirection of water to natural sumps with ditches using mechanical equipment. As of Saturday evening (June 27), the situation had stabilized and monitoring in Mary River conducted on June 28 and June 29 showed normalized conditions with regard to sediment levels.

DFO, AANDC, and QIA were notified of the event via e-mail on June 29. A QIA Inspector was at site at the time of the incident, and was able to view the sections of the Mine Haul Road that were associated with the incident, the downstream areas affected, the mitigation measures/controls implemented, and the follow-up monitoring that was undertaken.

Incident details/actions, monitoring/sampling results, and conclusions/corrective actions are provided in Sections 2, 3, and 4, below. Photographs are provided in Attachment A. Maps showing the area of the incident as well as sampling/monitoring locations are provided as Attachment B.

2. Incident Details

June 26

At approximately 1300 HRS, Environment personnel conducting routine stream water quality monitoring in the vicinity of the Mary River, near the Mine Haul Road, reported what appeared to be poor runoff quality discharging to the Mary River via a tributary at sample location FO-01. The runoff entering Mary River originated from a non-fisheries tributary that received some drainage from a culvert near the 107 kilometre marker of the Mine Haul Road. The terrain where the release occurred is steeply sloping. The tributary is a rocky stream with an extreme gradient averaging between 25 and 30%. The following actions were undertaken immediately on June 26:

 Environmental technologists were dispatched to sample and document conditions at the above location and in the Mary River downstream receiving environment and to assess potential mitigation measures.



- Environment and Mine Operations personnel performed an assessment on the Mine Haul Road and located a problematic area between km markers 107 and 109. The results of the assessment indicated that the high flows from the snow melt event caused ditches to overflow, onto the road surface and embankment, eroding and causing surface water to become impacted with sediments, which then discharged via a culvert near km 107 to a tributary (non-fisheries) and then discharged to Mary River. In addition, some of the culverts on the Mine Haul Road were observed to be blocked with sediment and impaired resulting in a partial to full loss of functionality.
- Environment personnel conducted flow mapping of drainage in the Mine Haul Road area and a preliminary action plan was developed involving the blockage of flows through the culvert at km 107 and the redirection of flows to a natural sump at km 105. The discharge of water at this location would eventually flow in the direction of Sheardown Lake. Therefore, a number of silt fences were required to be erected downstream of km 105 sump to protect that drainage before implementing the plan.
- Over the evening of June 26, temperatures decreased, flows in ditches reduced, and the water clarified, resulting in a substantial decrease of sediment loadings to Mary River from the culvert at Km 107. The implementation of the action plan was therefore temporarily deferred overnight, based on these observations.

June 27

On the morning of June 27, lower flows that were generally clear, continued to be observed, but as the day progressed, and ambient temperatures increased, higher flows and more sedimentation resulted. The Action Plan was implemented. During June 27, the following actions were undertaken:

- First thing in the morning, silt fence installation crews were mobilized downstream of km 107 and later downstream of km 106 and 105 of the Mine Haul Road.
- Towards early afternoon, it was observed that silt fences downstream of km 107 were becoming
 overloaded with sediment and the decision was made to block the culvert at km 107 and reroute
 the drainage to km 106 and km 105, where there was gentler topography and where silt fences had
 been erected.
- The plan successfully reduced sedimentation to Mary River with no effect to the Sheardown Lake drainage.
- Visual monitoring was ongoing for the rest of the day.

June 28

Confirmation sampling on tributary and Mary River was conducted indicating that sediment levels had returned to background concentrations. Flows on Mary River were considered to be low to average, based on visual observation on June 26, but became high to extreme commencing on June 27, being fed by the melting of the snowpack in upstream highland areas. This had the effect of quickly dispersing solids that were discharged to the river on June 26.



3. Monitoring and Sampling Results

Monitoring rounds were conducted on June 26, June 28, and June 29 for total suspended solids and turbidity. Sample results are provided in Table 1, below, with locations illustrated in Attachment B. The June 26 sampling event was conducted under worst case conditions, shortly after the discovery of the problem. On June 27, flows in Mary River were higher and sediment discharge reduced to acceptable limits. The follow-up sampling events conducted on June 28 and 29 reflect these normalized conditions. Analyses was conducted in the accredited on-site ALS Environmental Laboratory.

Table 1 - Water Quality Monitoring Results

Sample ID	June 26		June 28		Jur	ne 29	Location (from SSL)
	TSS (mg/L)	Turbidity (NTU)	TSS (mg/L)	Turbidity (NTU)	TSS (mg/L)	Turbidity (NTU)	
Sediment So	ource Lo	cation (SSI					
FO-01	623	787	11.2	4.42	3.6	2.68	Tributary to Mary River (non-fish bearing)
Downstream	n Sample	Locations					
EO-10	155	126	7.6	4.03	2.8	4.17	80 m downstream
EO-03	23.2	24.2	5.6	4.05	9.2	4.46	1.3 km downstream
EO-21	15.6	18.7	4.4	4.03	6.4	5.65	2.3 km downstream
EO-20	11.6	13.6	5.2	4.12	<2.0	4.40	3.2 km downstream
CO-10	6.4	10.3	3.6	4.62	<2.0	4.33	4.3 km downstream
CO-05	5.2	9.95	<2.0	4.13	3.2	4.59	7.7 km downstream
CO-01	6.8	12.9	3.2	4.35	4.8	4.58	11.2 km downstream
Upstream Sa	ample Lo	cations					
GO-09A	-	-	-	-	46.4	16.6	8.0 km upstream
GO-09	-	-	-	-	13.6	8.08	6.5 km upstream
GO-09B	-	-	-	-	12.8	8.75	5.0 km upstream
GO-03	-	-	-	-	12.0	5.42	2.5 km upstream

4. Conclusions and Corrective Actions

The discharge of sediment into Mary River was a short term condition caused by a combination of weather conditions (snow melt and rainfall event), in addition to a culvert system that was impaired due to partial burial during winter construction and/or plugging from sediment deposition. The sediment release was of short duration (<36 hours) and of limited extent. Upstream reference samples taken a couple of days after the sediment release, as well as historical baseline data, indicated elevated TSS and minor turbid conditions are not unusual in the Mary River drainage system, especially during snow melt conditions. Peak flows during freshet through the Mary River near the site of the incident are very high with



discharges greater than 100 m³/s not unusual. Freshet flows typically occur from late June to mid-July for the Mary River system.

The following corrective actions are to be implemented over the course of the summer in an effort to reduce erosion and sedimentation downstream:

- 1. The culvert drainage system along the Mine Haul Road is to be reviewed and culverts that are functionally impaired are to be replaced as required.
- Improvements to the ditching system will be made and are to include the construction of numerous sumps and check dams to slow the water down and aid in settlement and routine maintenance of the same.
- 3. Riprap, when available, will be installed as needed and as required at strategic locations such ditches and check dams and culvert outlets.
- 4. Sections of the road embankment are quite fine grained and susceptible to erosion. These areas should be targeted for road capping with more stable rock material when it becomes available.
- 5. In an effort to improve environmental performance of the drainage system, a chemical flocculant has been procured and is being shipped to site for use on a test basis. Information in the form of MSDSs provided by the manufacturer indicate that the product is non-acutely toxic to the aquatic environment when used as recommended.

During periods of major rainfall/snowmelt, the Mine Haul Road drainage system will be monitored for operational and environmental functionality and improvements will be made based on those observations and lessons learned.

The Aquatic Effects Monitoring Program (AEMP) established under the Water Licence is designed to detect potential adverse effects to the aquatic ecosystem. There is a network of monitoring locations within Mary River and Mary Lake that is designed to measure potential effects such as from incidents such as this short term sediment release (see water quality sampling location plan in Attachment B). The AEMP is currently underway and a report will be provided as part of the 2015 annual reporting regime. The occurrence of this sedimentation event will be considered in the interpretation of AEMP results.

ATTACHMENT A PHOTOS



Photo 1: Culvert at Km 107 of Mine Haul Road. Sediment released downstream from this location on June 26 and 27 from erosion of road embankment and upstream ditches.



Photo 2: View downstream on June 26 from road embankment at Km 107 of Mine Haul Road showing drainage pathway to tributary that drains to Mary River. Mary River upstream in background.



Photo 3 – view upstream toward culvert at Km 107 Mine Haul Road. Note steep gradient and silt fences erected June 27.



Photo 4: Silt fences effectively trapping sediment release downstream of Culvert at Km 107 on June 27.



Photo 5: View upstream of sample location FO-01, near confluence of Mary River at time of discovery of sediment release on June 26. Prior to implementing mitigative actions.



Photo 6: Just upstream of Photo 4, on June 28 after implementation of mitigative actions on June 27. Stream is running clear.



Photo 7: View downstream Mary River at confluence of tributary, just downstream from sampling location FO-01 at time of discovery of sediment release on June 26, prior to implementing mitigative actions.

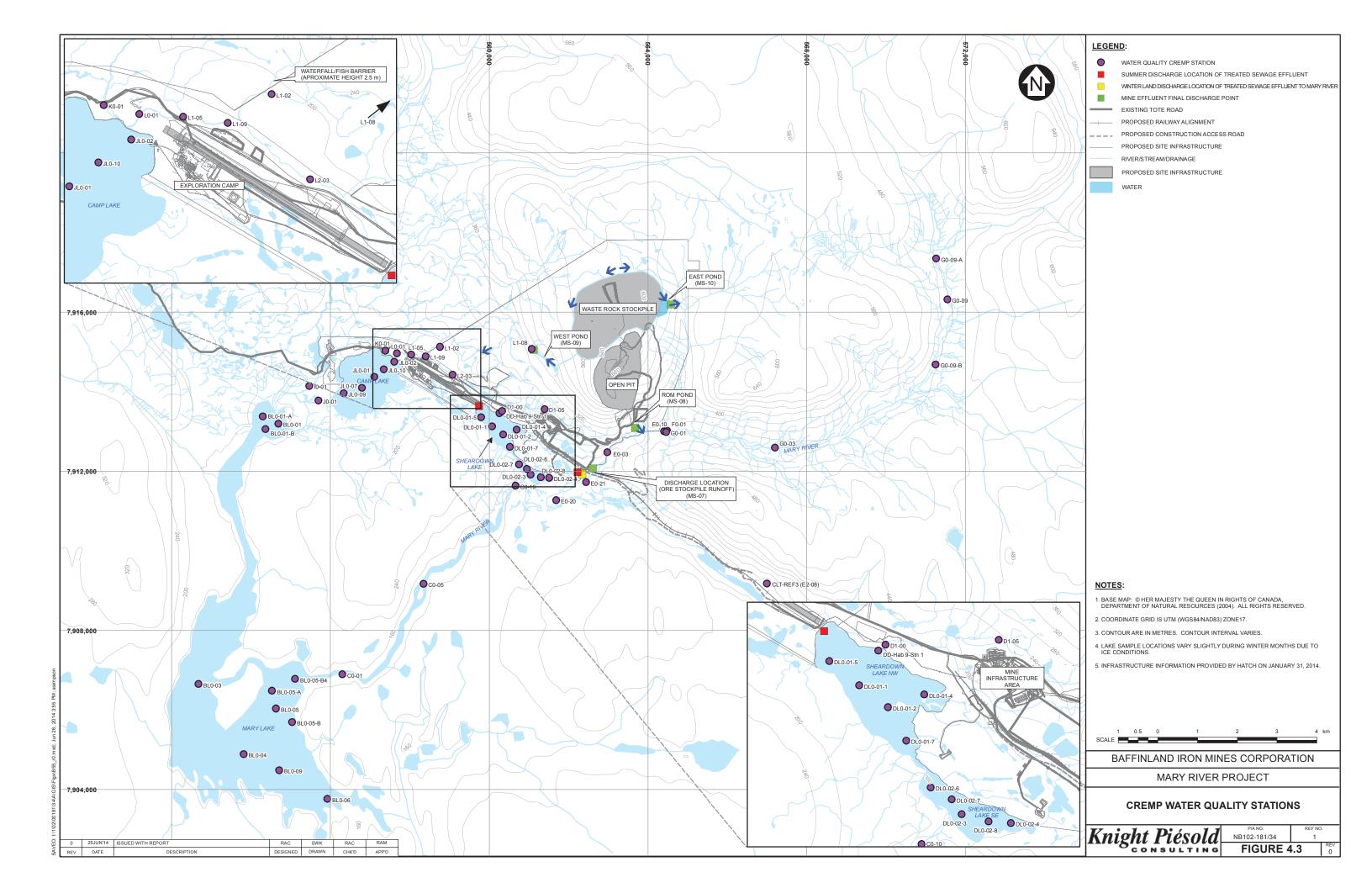


Photo 8: View of confluence of tributary with Mary River on June 28 after implementing Action Plan on June 27. Stream is running clear. Note increased flow in Mary River.

ATTACHMENT B LOCATION AND SAMPLE LOCATION MAPS



Satellite photograph showing location of Mine Haul Road, Culvert at km 107, and flow path to Mary River. Also near field downstream sampling locations are illustrated.





June 19, 2015

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 swbathory@qia.ca

Re: Follow-up to Spill #15-211, Reported on May 22st, 2015 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

At the Mine Site Complex (MSC) on May 20, 2015 at 6:00 AM, it was discovered that a 90° joint on the sewage line (pressurized) that drains the south AF Dorm lift station had failed. The sewage spill affected an area of approximately 20 square meters underneath the MSC Arctic Corridor and is estimated to be approx. 500 litres.

The location of the spill was on the camp pad and greater than 150 metres from the closest water body.

Immediate and Follow-Up Action:

A vacuum truck was used to pump out the lift station and joint was locked out. The lift station was monitored until the joint was repaired. Accessible contaminated snow and ice was removed and placed in the Mine Site Polishing Waste Stabilization Pond (PWSP).

Recommendations:

Extreme temperature changes, which cause the piping and fittings to expand and contract, promotes leaks and pipe failures. Ongoing routine inspection of the sewage lines are required to inspect for leaks and potential locations of failure. A long term solution is currently being developed.

Current Status:

The joint has been repaired and the sewage line is back in service. Regular inspections are conducted on the sewage lift stations and sewer lines to verify the system is working as designed.

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:

Andrew Vermeer, Trevor Myers

Environmental Coordinator Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Michael Anderson, Erik Madsen, Jim Millard, Trevor Myers, Nicolas Kuzyk, Lea Willemse (Baffinland), Robert Savard, Erik Allain, (AANDC), Manager of Licencing (NWB)





Photo 1 - Failed Joint



Photo 2 – Sewage Spill underneath MSC Arctic Corridor





Photo 3 – Repaired Joint



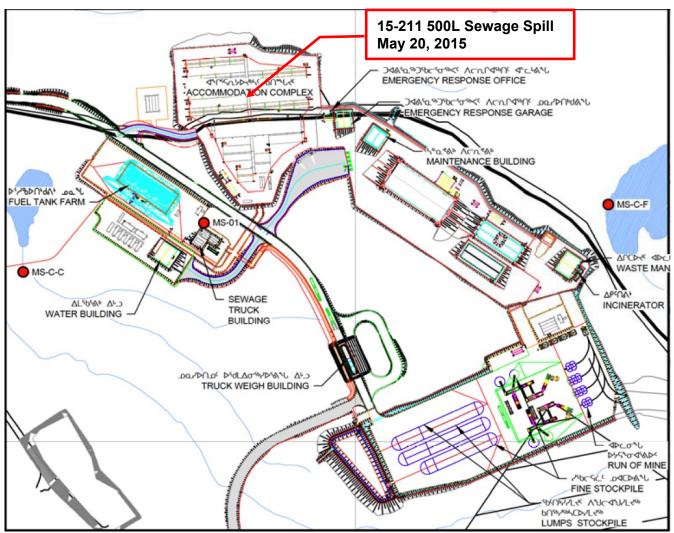


Figure 1 - Spill Location







NT-NU SPILL REPORT

DIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

PAGE 1 OF

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

Α	REPORT DATE: MONTH - DAY - YEAR May 21, 2015			REPORT TIME 06:00 HRS			□ ORIGINAL S	PILL REPORT,	REPORT NUMBER		
В	OCCURRENCE DATE: MONTH	RENCE DATE: MONTH - DAY - YEAR			OCCURRENCE TIME			VAL SPILL REPORT	15 211		
D	May 20, 2015				HRS						
С	IOL - Commercial	cial Lease: Q13C301			WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MRY1325 Type "A"						
D	and a second control of the control	ME OR DISTANCE AND DIRECTION FROM NAMED L e Site, Baffin Island, NU			REGION						
_	LATITUDE	ono, Danin Iolana	,		LONGITUDE ADJACENT JURISDICTION OF				TOH OCEAN		
Е	DEGREES 71	MINUTES 18	SECONDS 54		DEGINEES	79	MINUTES	; 17 §	ECONDS 00		
F	RESPONSIBLE PARTY OR VE Baffinland Iron M		2275 Mid					ille, ON L6H	0C3		
G	ANY CONTRACTOR INVOLVED N/A	D	N/A	ADDRESS	OR OFFICE LO	CATION					
	Sewage (Untreated) 56			TRES, KILI	OGRAMS OR C	UBIC METRE	U.N. NUM	BER			
H	SECOND PRODUCT SPILLED		500 L QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES				BER				
	N/A		N/A				N/A	N/A			
1	Sewage Line	PILL SOURCE SPILL CAUSE Sewage Line SPILL CAUSE Joint fail			e			AREA OF CONTAMINATION IN SQUARE METRES 20 square meters			
J	FACTORS AFFECTING SPILL (SPILL OR RECOVERY DESCRIBE ANY N/A			SISTANCE REQUIRED			HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A			
<u> </u>		COMMENTS, ACTIONS PROPO		O CONTAIL	N. RECOVER C	R DISPOSE		ODUCT AND CONT	AMINATED MATERIALS		
K	On May 20, 2015 at 6:00 AM, at the Mine Site Complex (MSC) it was discovered that a 90° joint on the sewage line (pressurized) that drains the south AF Dorm lift station had failed. Accommodations Maintenance immediately contracted the vacuum truck to drain the south AG Dorm lift station and began repairs on the failed joint. The sewage spill affected an area of approximately 20 square meters underneath the MSC Arctic Corridor and is estimated to be approx. 500 litres. The failed joint is currently locked out and the south AF Dorm lift station will be monitored regularly until the repairs on the joint are complete. Accessible contaminated snow and ice will be removed and placed in Mine Site PWSP (Pond 1). The spill location is greater than 150 meters from the nearest water body which is currently frozen. Further details of the incident will be provided in the follow up spill report.										
L	REPORTED TO SPILL LINE BY Allan Knight	Env. Superint			Mary Riv		Ext. 6010				
N A	ANY ALTERNATE CONTACT	POSITION				ALTERNATE CO	ONTACT	ALTERNATE TELEPHONE			
М	Trevor Myers	Env. Superint		tendent Baffinland			Wary RIV	Mary River Mine Ext. 6010			
	I	DOG!TIG::	REPORT LIN					LEB T			
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR					OCATION CALLED REPORT LINE NUMBER (ELLOWKNIFE, NT (867) 920-8130				
LEA	DAGENCY = EC = CCG =		D NEB DTC	SIGN	SIGNIFICANCE - MINOR - MAJOR - UNKNOWN FILE STATUS - OPEN - CLOSED						
AGE	NCY	CONTACT NAME		CONT	CONTACT TIME REMARKS						
LEA	DAGENCY										
FIRS	T SUPPORT AGENCY					_					
SEC	OND SUPPORT AGENCY										
-											

Figure 2 – NT-NU Spill Report



July 9, 2015

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 swbathory@qia.ca

Re: Follow-up to Spill 15-247 Reported on June 9th, 2015 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

At 00:00 on June 9, 2015, a fuel tanker operator was refueling at the diesel refueling module at Milne Port. The operator misjudged the compartment capacity of the tanker he was currently operating with the compartment capacity of the tanker that he was previously driving which holds approx. 1,000 L more. As a result, approx. 150 L was released as an overfill from the top fill port before the operator observed the overfill and shut-down the fuel supply.

The spill location was contained within a bermed containment facility which is inspected annually by a geotechnical engineer and is greater than 100 m from the nearest water body.

Immediate and Follow-Up Action:

Upon shut-down of the fuel supply, any fuel dripping from the side of the tanker compartment was wiped to prevent further spillage prior to removing it from the impacted area. The impacted ground cover (sand/gravel fill) was excavated and placed at the Milne Port Landfarm Facility. It was then replaced with clean fill material and inspected to confirm that residual fuel was not present. The clean-up was determined to be complete.

Recommendations:

In order to avoid future occurrences, Baffinland has posted signs indicating each fuel tank capacity in the cab compartment of each fuel tanker as a reminder to operators. Each sign has been posted in such a place that is in clear view of the operator.

Current Status:

The impacted area is free of contamination, and is in normal operation.

Should you require further information or clarification on the above noted spill, please feel free to contact Allan Knight / Trevor Myers at (647) 253-0596 Ext. 6010 or Jim Millard at (902) 403-1337.

Prepared By: Reviewed by:

Lea Willemse, Allan Knight,

Environmental Coordinator Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Erik Madsen, Michael Anderson, Jim Millard, Trevor Myers, Jennifer St. Paul Butler (Baffinland), Scott Burgess, Erik Allain, (AANDC), Manager of Licencing (NWB).



Photo 1 – Diesel Tanker Overfill Spill



Photo 2 – Diesel Overfill of Tank



Photo 3 - Spill Clean-up in Progress



Photo 4 – Spill Clean-up Complete

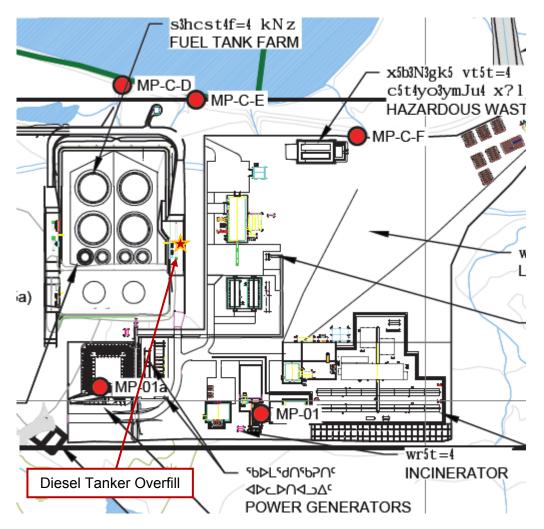


Figure 1 – Spill Location





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

										REPORT LINE USE ONLY		
Α	June-09-2015	- YEAR		00:00		n hre		□ ORIGINAL SPILL REPORT, OR		REPORT NUMBER		
В	OCCURRENCE DATE: MONTH- June-09-2015	- DAY - YEAR		OCCURRENCE TIME 00:00 hrs			TO THE ORIGINAL SPILL REPORT		SPILL REPOR	<u>15 - 247</u>		
С	LAND USE PERMIT NUMBER (I IOL - Commercial			WATER LICENCE NUMBER (IF A 2AM-MRY1325 Ty			-					
D	GEOGRAPHIC PLACE NAME O Mary River Mine S		OCATION	REGION IN NWT	■ NUNAVU	л 👵	ADJACEN	IT JURISDICTIO	ON OR OCEAN			
Е	DEGREES 71	MINUTES 53	SECONDS 08	LONGITUDE DEGREES 80			м	NUTES	53	SECONDS 35		
F	RESPONSIBLE PARTY OR VES Baffinland Iron Mi				ARTY ADDRESS OR OFFICE LOCATION dle Road East, Sutie 300, Oakville, ON L6H 0C3							
G	ANY CONTRACTOR INVOLVED N/A	-			CTOR ADDRESS OR OFFICE LOCATION							
ш	PRODUCT SPILLED Diesel Fuel	150 L	TRES, KILO	OGRAMS OR C	UBIC METRE		U.N. NUMBER N/A					
П	SECOND PRODUCT SPILLED (IF APPLICABLE)	N/A	TRES, KILO	OGRAMS OR C	UBIC METRE		U.N. NUMBER N/A				
1	SPILL SOURCE Fuel Tanker Truck	SPILL CAUSE Tank Overfill					AREA OF CONTAMINATION IN SQUARE METRES 15					
J	FACTORS AFFECTING SPILL O	DESCRIBE ANY ASSISTANCE REQUIRED N/A				- 1	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A					
K	At 00:00 09-Jun-15, a fuel tanker operator was refueling at the diesel refueling module at Milne Port. The operator misjudged the compartment capacity of the tanker he was currently operating with the compartment capacity of the tanker that he was previously driving which holds approx. 1,000 L more. As a result, approx. 150 L was released as an overfill from the top fill port before the operator observed the overfill and shut-down the fuel supply. The spill location was contained within a bermed containment facility which is inspected annually by a geotechnical engineer and is greater than 100 m from the nearest water body. The impacted ground cover (sand/gravel fill) was was excavated and placed at the Milne Port Landfarm Facility. It was then replaced with clean fill material. Further details of the incident will be provided in the follow-up spill report.											
L	Allan Knight	Env. Superint	tendent Baff		R Iland			Mary River Mine		Ext. 6010		
М	ANY ALTERNATE CONTACT Trevor Myers	Env. Superinte				TELLING TELLING		Ext. 6010				
			REPORT LIN	E USE ON	LY							
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER		R		LOCATION CALLED YELLOWKNIFE, NT			REPORT LINE NUMBER (867) 920-8130		
LEAD	AGENCY DEC DCCG DG	NWT DGN DILA DINAC	□ NEB □TC	SIGNI	FICANCE III M	IINOR 🗆 MA	JOR 🗆 U	R □ UNKNOWN FILE STATUS □ OPEN □ CLOSED				
AGE	NCY	CONTACT NAME		CONT	ACT TIME		REM	REMARKS				
LEAD) AGENCY											
FIRS	T SUPPORT AGENCY											
SEC	OND SUPPORT AGENCY						\perp					
THIR	D SUPPORT AGENCY											

PAGE 1 OF _____



July 15, 2015

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 jfbuller@qia.ca

Re: Follow-up to Spill #15-254, Reported on June 13th, 2015 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On June 13, 18:30, during an inspection of the Mine Site Hazardous Waste Berms, a measurable volume of used oil was observed inside the bermed facility. The spill is entirely contained within the engineered lined containment that is inspected annually by a qualified Geotechnical Engineer. An inspection around the foot of the berm of the facility indicated no leakage to the environment. The melt water from this berm had recently been pumped out (June 9, 2015. Upon initial inspection, two 1m³ totes were discovered to have broken and drained into the berm. The spill location is greater than 200 meters from the nearest water body.

Immediate and Follow-Up Action:

The berm is storage to numerous 1 m³ totes containing used hydrocarbons awaiting backhaul for proper disposal. Clean up of the used oil released will commence upon removal of these full containers in preparation for the 2015 backhaul sealift.

Recommendations:

Proper stacking and placement all hazardous materials within line containment structures has been communicated to all responsible departments.

Current Status:

The final cleanup of the released used oil will commence upon removal of totes during the manifesting of containers for the 2015 backhaul sea lift. 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.

Preparation for the 2015 hazardous waste backhaul is currently proceeding.

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:

Allan Knight,

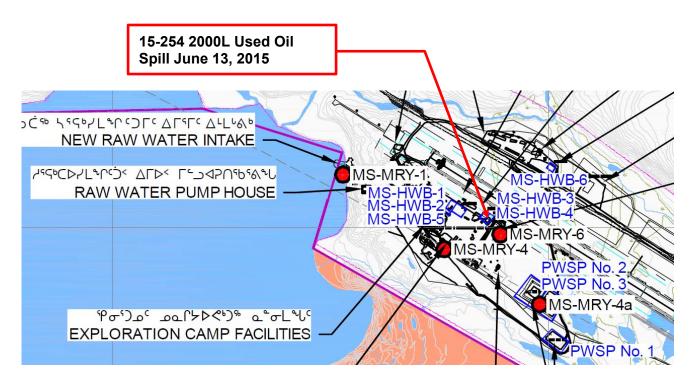
Environmental Superintendent

Reviewed by:

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

Attach: Map, NT-NU Spill Report

cc. Michael Anderson, Erik Madsen, Jim Millard, Trevor Myers, Nicolas Kuzyk, Lea Willemse (Baffinland), Erik Allain, (AANDC), Manager of Licencing (NWB)



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

	REPORT DATE: MONTH - DAY - Y	/EAR	I	REPORT	TIME		= 4-77				
Α	June 13, 2015			18:30 HRS		□ ORIGII OR	☐ ORIGINAL SPILL REPORT,		REPORT NUMBER		
_	OCCURRENCE DATE: MONTH – DAY – YEAR		Contractor (Street West)		□ UPDAT	OR UPDATE #		15 254			
В	June 13, 2015				TO THE C	ORIGINAL SPILI	REPORT	10 204			
^	LAND USE PERMIT NUMBER (IF		,		WATER LICENCE NUMBE	ER (IF APPLI	ICABLE)				
C IOL - Commercial Lease: Q13C301					2AM-MRY1325	Type'	'A"				
D	GEOGRAPHIC PLACE NAME OR			OCATION	REGION						
D	Mary River Mine Si	te, Baffin Island	i, NU	□ NWT X NUNAVUT □ ADJACENT JURISDICTION OR OCEAN					OR OCEAN		
Ε	LATITUDE	40		LONGITUDE							
7-7	DEGREES 71 M RESPONSIBLE PARTY OR VESSE	INUTES 19	SECONDS 34		DEGREES 79 DRESS OR OFFICE LOCA		NUTES 22	S	ECONDS 06		
F	Baffinland Iron Min				ad East, Sutie		akville O	N L6H	0C3		
	ANY CONTRACTOR INVOLVED				OR OFFICE LOCATION	,					
			N/A								
0 8	PRODUCT SPILLED QUANTITY IN L			TRES, KILO	OGRAMS OR CUBIC MET	RES U.N.	NUMBER				
1.1	Used Motor Oil		2000 L			N/	/A				
Н	or again through a merce fu	APPLICABLE)		TRES, KILO	OGRAMS OR CUBIC MET	A STATE OF THE STA	NUMBER				
	N/A		N/A			N/					
1	SPILL SOURCE 2 - 1 m3 Plastic Tot	es	SPILL CAUSE Under Inv	oction.	ation	1	AREA OF CONTAMINATION IN SQUARE METRES 20m2				
	FACTORS AFFECTING SPILL OR		DESCRIBE ANY	22.77		-	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT				
J	Inside Lined Containment Berm N/A			AGGIG IAIN	OL TILGOTTLD	1000000	N/A				
	ADDITIONAL INFORMATION, COM	MMENTS, ACTIONS PROP	OSED OR TAKEN TO	O CONTAIN	CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MAT						
K	observed inside the bermed facility. The spill is entirely contained within the engineered lined containment that is inspected annually by a qualified Geotechnical Engineer. An inspection around the foot of the berm of the facility indicated no leakage to the environment. The melt water from this berm had recently been pumped out (June 9, 2015). Upon initial investigation, two cubic meter totes were discovered to have broken and drained into the berm. The spill location is greater than 200 meters from the nearest water body. Further details of the incident will be provided in the follow up spill report.										
1	REPORTED TO SPILL LINE BY	POSITION	EMPLOYE			Paralli variation	LOCATION CALLING FROM		ELEPHONE		
L	Allan Knight	Env. Superin	tendent	Baffir		Mary River Mir					
	ANY ALTERNATE CONTACT Andrew Vermeer	Env. Coordin				Mary River Mine Ext. 6039		Ext. 6010			
M		REPORT LINE USE ONLY									
М	RECEIVED AT SPILL LINE BY POSITION		REPORT LIN	E USE ON	LY				ALTERNATE TELEPHONE		
Г	RECEIVED AT SPILL LINE BY	POSITION		E USE ON EMPLOYE		LOCATIO	N CALLED		ALTERNATE TELEPHONE		
M N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR					N CALLED KNIFE, NT		Ext. 6039		
N	DAGENCY DEC DCCG DGN	STATION OPERATOR		EMPLOYE		YELLOW	KNIFE, NT	(Ext. 6039 REPORT LINE NUMBER		
N	DAGENCY DEC DCCG DGN	STATION OPERATOR		SIGNI	R	YELLOW	KNIFE, NT	(Ext. 6039 REPORT LINE NUMBER 867) 920-8130		
N LEAI	DAGENCY DEC DCCG DGN	STATION OPERATOR		SIGNI	FICANCE MINOR M	YELLOW	KNIFE, NT NKNOWN	(Ext. 6039 REPORT LINE NUMBER 867) 920-8130		
N LEAI AGE	D AGENCY DEC DCCG DGNV	STATION OPERATOR		SIGNI	FICANCE MINOR M	YELLOW	KNIFE, NT NKNOWN	(Ext. 6039 REPORT LINE NUMBER 867) 920-8130		
N LEAI AGE LEAI FIRS	D AGENCY DEC DCCG DGNN NCY CC D AGENCY	STATION OPERATOR		SIGNI	FICANCE MINOR M	YELLOW	KNIFE, NT NKNOWN	(Ext. 6039 REPORT LINE NUMBER 867) 920-8130		

PAGE 1 OF _____



August 18, 2015

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 swbathory@qia.ca

Re: Follow-up to Spill #15-313, Reported on July 19, 2015 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On July 19, 2015 at 11:30 AM, a worker discovered a pool of untreated sewage beside the Mine Site Complex kitchen lift station between the kitchen and the main office. Upon further investigation it was discovered that a coupling on the lift station discharge line (pressurized) had come apart releasing approximately 300 L of untreated sewage to the surrounding camp pad and impacting an area of approximately 12 m². The location of the spill was greater than 200 meters from the nearest watercourse.

Immediate and Follow-Up Action:

The worker immediately shut off lift station pump and notified his Supervisor and the Environment Department. The vacuum truck was used to empty the lift station and remove any pooling sewage.

Recommendations:

Temperature changes, which cause the piping and fittings to expand and contract, promotes leaks and pipe failures. Ongoing routine inspection of the sewage lines are required to inspect for leaks and potential locations of failure. Currently, all of the sewage piping on the complex is currently in the process being replace.

Current Status:

The coupling has been repaired and the sewage line is back in service. Regular inspections are conducted on the sewage lift stations and sewage lines to verify the system is working as designed.

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:

Andrew Vermeer,

Environmental Coordinator

Trevor Myers

Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Michael Anderson, Erik Madsen, Jim Millard, Trevor Myers, Nicolas Kuzyk, Lea Willemse (Baffinland), Robert Savard, Erik Allain, (AANDC), Manager of Licencing (NWB)





Photo 1 – Failed Joint

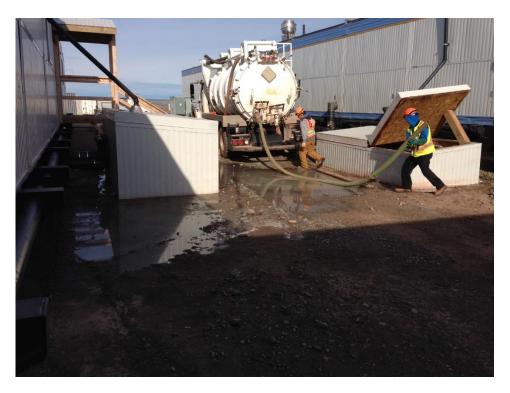


Photo 2 – Sewage Spill Response





Photo 3 – Repaired Joint



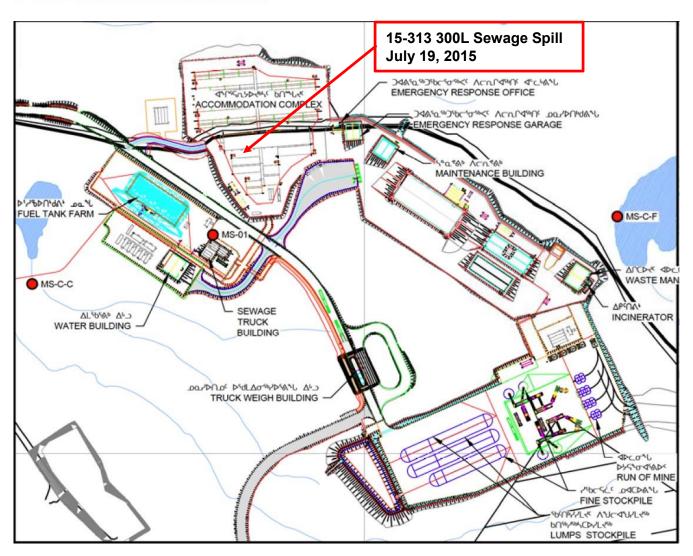


Figure 1 - Spill Location







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	A REPORT DATE: MONTH - DAY - YEAR July 20, 2015			11:30 H		ORIGINAL SPILL REPORT,		REPORT NUMBER		
В	OCCURRENCE DATE: MONTH - DAY - YEAR July 19, 2015			OCCURRENCE TIME 11:30 HRS		□ UPDATE # TO THE ORIGINAL SPIL	L REPORT	15 313		
Ľ		*				UE ADDI IOADI E				
С				2	AM-MRY1325					
D GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED DI Mary River Project Mine Site, Baffin Island, N					REGION X NUNAVU	T - AD MOENT HI	NEDICTION	OD OCEAN		
<u> </u>	LATITUDE	, , , , , , , , , , , , , , , , , , , ,			LONGITUDE ADJACENT JURISDICTION OR OCEAN					
Е	DEGREES 71	MINUTES 18	SECONDS 54	D	EGREES 79	MINUTES 16	SE	CONDS 58		
F	Baffinland Iron M	ARTY OR VESSEL NAME RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION 2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3						0C3		
ANY CONTRACTOR INVOLVED CONTRA				DDRESS O	R OFFICE LOCATION					
G	NA		NA							
	PRODUCT SPILLED		QUANTITY IN LIT	RES, KILOG	GRAMS OR CUBIC METRE					
ш	Sewage		300 Litres				NA			
П	SECOND PRODUCT SPILLED	(IF APPLICABLE)		RES, KILOG	RAMS OR CUBIC METRE					
	NA		NA			NA				
1	Sewer Line		SPILL CAUSE				AREA OF CONTAMINATION IN SQUARE METRES			
			Line Failu			12 m2				
J				SCRIBE ANY ASSISTANCE REQUIRED ACUUM Truck			N/A			
K	On July 19, 2015 at 11:30 AM, a worker discovered a pool of untreated sewage beside the MSC kitchen lift station between the kitchen and MSC main office. The worker immediately shut off lift station pumps and notified his Supervisor and the Environment Department. The vacuum truck was used to empty the lift station and remove any pooling sewage. Upon further investigation it was discovered that a coupling on the lift station discharge line (pressurized) had come apart releasing approximately 300 L of untreated sewage to the surrounding camp pad and impacting an area of roughly 12m2. The location of the spill was greater than 200 meters from the nearest watercourse and further details of the incident will be provided in the spill follow up report.									
L	Trevor Myers	Env. Superint		Baffinl Barrinl		LOCATION CALLING FR Mine Site				
_	ANY ALTERNATE CONTACT	POSITION		EMPLOYER		TERNATE CONTACT		647-253-0596		
M	Jim Millard						A	647-253-0596		
	Jilli Williara	Env. Superint	endent	Baffinl		Off Site				
NI	onn minara	Env. Superint	endent REPORT LINE		and			647-253-0596 LTERNATE TELEPHONE		
N STATION OPERATOR			REPORT LINE		and Y			647-253-0596 LTERNATE TELEPHONE		
IN	RECEIVED AT SPILL LINE BY	POSITION	REPORT LINE	USE ONL	and Y	Off Site	R	647-253-0596 LTERNATE TELEPHONE 902-403-1337		
LEA	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	REPORT LINE	E USE ONL'	and Y	LOCATION CALLED YELLOWKNIFE, NT	R (8	647-253-0596 LTERNATE TELEPHONE 902-403-1337		
LEA	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	REPORT LINE	E USE ONL' EMPLOYER SIGNIFI	and Y	LOCATION CALLED YELLOWKNIFE, NT	R (8	647-253-0596 LTERNATE TELEPHONE 902-403-1337 EPORT LINE NUMBER 967) 920-8130		
LEA	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR SNWT GN LA GINAC	REPORT LINE	E USE ONL' EMPLOYER SIGNIFI	and Y CANCE - MINOR - MA	LOCATION CALLED YELLOWKNIFE, NT JOR - UNKNOWN	R (8	647-253-0596 LTERNATE TELEPHONE 902-403-1337 EPORT LINE NUMBER 967) 920-8130		
AGE LEAI	RECEIVED AT SPILL LINE BY DAGENCY DEC DOG DO	POSITION STATION OPERATOR SNWT GN LA GINAC	REPORT LINE	E USE ONL' EMPLOYER SIGNIFI	and Y CANCE - MINOR - MA	LOCATION CALLED YELLOWKNIFE, NT JOR - UNKNOWN	R (8	647-253-0596 LTERNATE TELEPHONE 902-403-1337 EPORT LINE NUMBER 967) 920-8130		
LEAI AGE LEAI FIRS	RECEIVED AT SPILL LINE BY D AGENCY DEC DCG DC ENCY D AGENCY	POSITION STATION OPERATOR SNWT GN LA GINAC	REPORT LINE	E USE ONL' EMPLOYER SIGNIFI	and Y CANCE - MINOR - MA	LOCATION CALLED YELLOWKNIFE, NT JOR - UNKNOWN	R (8	647-253-0596 LTERNATE TELEPHONE 902-403-1337 EPORT LINE NUMBER 967) 920-8130		

Figure 2 - NT-NU Spill Report



August 18, 2015

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 swbathory@qia.ca

Re: Follow-up to Spill #15-311, Reported on July 19th, 2015 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

During a routine inspection at the Port Site Complex on July 19, 2015 at 9:15 AM, it was noticed that sewage was coming out of the main lift station. Upon further inspection it was determined that the float switch that engages the pump had become impeded, resulting in the main lift station to overflow. The sewage spill affected an area of approximately 10 square metres (m²) on the adjacent land surface and is estimated to be approximately 200 liters. The location of spill was on the camp pad and was greater than 50 metres from the closest water body.

Immediate and Follow-Up Action:

A vacuum truck was immediately used to pump out the tank and any pooled sewage around the lift station.

Recommendations:

Ongoing regular inspections of the sewage lines and lift stations will be conducted to ensure all components are working properly.

Current Status:

The float switch has been repaired and the system is back in service.

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:

Andrew Vermeer,

Environmental Coordinator

Reviewed by:

Trevor Myers

Environmental Superintendent

Attach: Map, NT-NU Spill Report

cc. Michael Anderson, Erik Madsen, Jim Millard, Allan Knight, Nicolas Kuzyk, Lea Willemse (Baffinland), Erik Allain, (AANDC), Manager of Licencing (NWB)





PHOTO 1 - Lift Station Spill

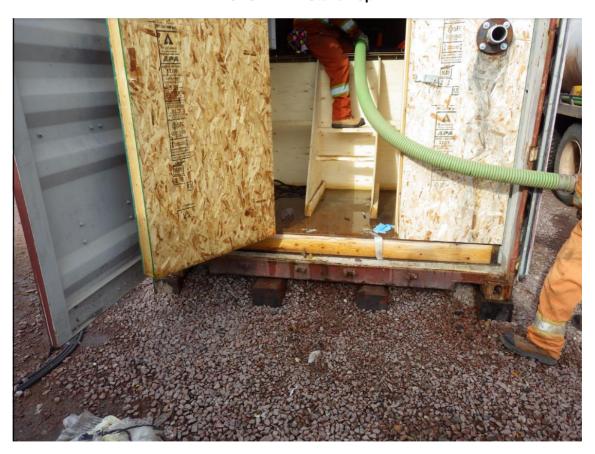


PHOTO 2 - Lift Station Spill Response





PHOTO 3 - Lift Station Spill Clean-up

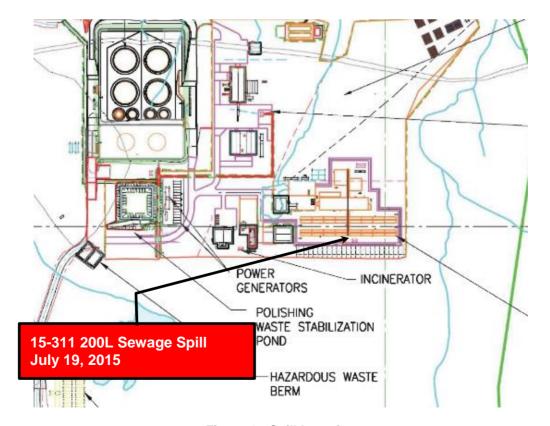


Figure 1 - Spill Location



THIRD SUPPORT AGENCY

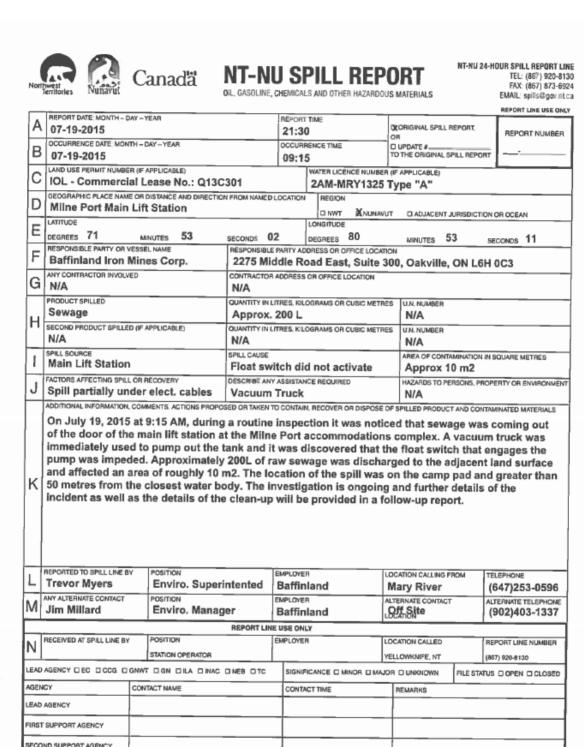


Figure 2 - NT-NU Spill Report



September 1, 2015

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 swbathory@qia.ca

Re: Follow-up to Spill #15-326, Reported on August 2, 2015 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On August 2, 2015 at 20:00, the housing maintainer discovered untreated sewage beside the North East MSC kitchen lift station between the kitchen and the AG wing. The lift station had been shut down for repairs to the discharge line but the plumbing had been continued to be used. Over a prolonged period of time the lift station had overflowed, releasing approximately 500 L of untreated sewage to the surrounding camp pad and impacting an area of approximately 25m2. The majority of the spill is underneath the MSC kitchen wing. The location of the spill was greater than 200 meters from the nearest watercourse

Immediate and Follow-Up Action:

The worker immediately notified his Supervisor and the Environment Department. The vacuum truck was used to empty the lift station and remove any pooling sewage.

Recommendations:

The requirement for full lock out of any infrastructure undergoing repairs has been reiterated to all departments. Temperature changes, which cause the piping and fittings to expand and contract, promotes leaks and pipe failures. Ongoing routine inspection of the sewage lines are required to inspect for leaks and potential locations of failure. Currently, all of the sewage piping on the complex is currently in the process being replace.

Current Status:

The coupling has been repaired and the sewage line is back in service. Regular inspections are conducted on the sewage lift stations and sewage lines to verify the system is working as designed.

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:

Allan Knight,

alla King

Environmental Superintendent

Trevor Myers,

Environmental Superintendent

Attach: Map, NT-NU Spill Report

cc. Michael Anderson, Erik Madsen, Jim Millard, Trevor Myers, Nicolas Kuzyk, Lea Willemse (Baffinland), Robert Savard, Erik Allain, (AANDC), Manager of Licencing (NWB)



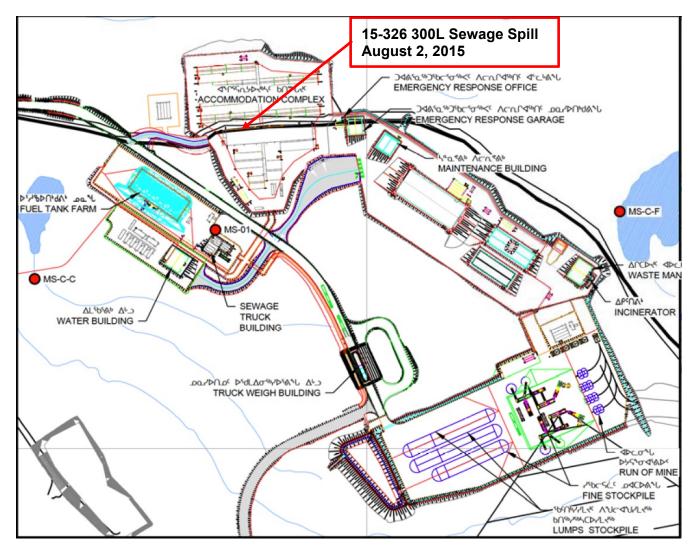


Figure 1 - Spill Location







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 REPORT DATE: MONTH - DAY - YEAR REPORT TIME XORIGINAL SPILL REPORT, A | August 2, 2015 20:00 HRS REPORT NUMBER OR OCCURRENCE DATE: MONTH - DAY - YEAR OCCURRENCE TIME □ UPDATE # 15 - 326 TO THE ORIGINAL SPILL REPORT Unknown Unknown LAND USE PERMIT NUMBER (IF APPLICABLE) WATER LICENCE NUMBER (IF APPLICABLE) IOL - Commercial Lease: Q13C301 2AM-MRY1325 Type "A" GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION REGION D Mary River Mine Site, Baffin Island, NU DNWT **X** NUNAVUT □ ADJACENT JURISDICTION OR OCEAN LATITUDE LONGITUDE Ε MINUTES 17 SECONDS 00 DEGREES 71 SECONDS 53 DEGREES 79 MINUTES RESPONSIBLE PARTY OR VESSEL NAME RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Baffinland Iron Mines Corp. 2275 Middle Road East, Sutie 300, Oakville, ON L6H 0C3 ANY CONTRACTOR INVOLVED CONTRACTOR ADDRESS OR OFFICE LOCATION G PRODUCT SPILLED QUANTITY IN LITRES. KILOGRAMS OR CUBIC METRES U.N. NUMBER Sewage 500 Litres NA SECOND PRODUCT SPILLED (IF APPLICABLE) U.N. NUMBER QUANTITY IN LITRES. KILOGRAMS OR CUBIC METRES. NA NA NA SPILL SOURCE SPILL CAUSE AREA OF CONTAMINATION IN SQUARE METRES Lift Station Over flow 25 square meters FACTORS AFFECTING SPILL OR RECOVERY DESCRIBE ANY ASSISTANCE REQUIRED HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT **Underneath Accommodations** NA Vacuum Truck ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS On August 2, 2015 at 20:00, the housing maintainer discovered untreated sewage beside the North East MSC kitchen lift station between the kitchen and the AG wing. Environment was immediately notified and the spill was investigated. A vacuum truck was requested to suck out the lift station and remove any pooling sewage. Upon further Investigation, the lift station had been shutdown for repairs to the discharge line but the plumbing had been continued to be used. Over a prolonged period of time the lift station had overflowed, releasing approximately 500 L of untreated sewage to the surrounding camp pad and impacting an area of approximately 25m2. The majority of the spill is underneath the MSC kitchen wing. The location of the spill was greater than 200 meters from the nearest watercourse and further details of the incident will be provided in the spill follow up report. REPORTED TO SPILL LINE BY POSITION **EMPLOYER** LOCATION CALLING FROM TELEPHONE Jim Millard Env. Manager **Baffinland** Mine Site 647-253-0596 ANY ALTERNATE CONTACT ALTERNATE CONTACT POSITION EMPLOYER ALTERNATE TELEPHONE M **Trevor Meyers** Env. Superintendent **Baffinland** Off Site REPORT LINE USE ONLY POSITION **EMPLOYER** LOCATION CALLED REPORT LINE NUMBER RECEIVED AT SPILL LINE BY STATION OPERATOR YELLOWKNIFE. NT (867) 920-8130 LEAD AGENCY DEC DCCG DGNWT DGN DILA DINAC DNEB DTC SIGNIFICANCE ☐ MINOR ☐ MAJOR ☐ UNKNOWN FILE STATUS ☐ OPEN ☐ CLOSED AGENCY CONTACT NAME CONTACT TIME REMARKS LEAD AGENCY FIRST SUPPORT AGENCY SECOND SUPPORT AGENCY THIRD SUPPORT AGENCY

PAGE 1 OF __1_



September 6, 2015

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 #15-330, Reported on August 8th, 2015 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On August 7, 2015 at 11:30 HRS, while backing up the water truck at the Mine Site Water Intake Jetty, the operator experienced brake failure and made contact with the water jetty sea-can causing a hydraulic line on the truck to rupture. The ruptured hydraulic line spilled approximately 20 L of hydraulic oil onto the water jetty and sprayed less than 1 litre onto the adjacent water surface.

Immediate and Follow-Up Action:

The operator immediately turned off the truck and notified the Environment Department. Booms and absorbent pads were deployed to capture and remove the sheen on the water surface. Contaminated soil and gravel on the water jetty was removed and placed in a Quatrex bag for future treatment at the Milne Port landfarm.

Recommendations:

Routine maintenance and daily pre-operation checks will continue to be conducted on all mobile equipment to ensure all mobile equipment is in good working order.

Current Status:

The brakes on the water truck have been repaired.

Should you require further information or clarification on the above noted spill, please feel free to contact the undersigned or Trevor Myers at (647) 253-0596 x6010.

Sincerely.

Allan Knight, B.Sc.

Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Michael Anderson, Erik Madsen, Jim Millard, Trevor Myers, Jennifer St. Paul Butler (Baffinland), Erik Allain, (AANDC), Manager of Licencing (NWB)



Photo 1 – Spill Response – Capturing Sheen with Booms



Photo 2 – Spill Clean up



Photo 3 – Spill Cleanup – Contaminated Soil Removal on Jetty

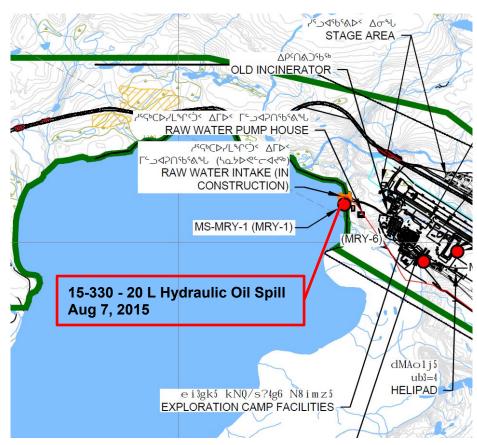


Figure 1 – Spill Location



THIRD SUPPORT AGENCY

NT-NU SPILL REPORT

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130 FAX: (867) 873-6924

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS EMAIL: spills@gov.nt.ca REPORT LINE USE ONLY REPORT DATE: MONTH - DAY - YEAR REPORT TIME ORIGINAL SPILL REPORT. 08-07-2015 15:00 HRS REPORT NUMBER OCCURRENCE DATE: MONTH - DAY - YEAR OCCURRENCE TIME UPDATE #______TO THE ORIGINAL SPILL REPORT 15 330 B 08-07-2015 11:30 HRS LAND USE PERMIT NUMBER (IF APPLICABLE) WATER LICENCE NUMBER (IF APPLICABLE) IOL - Commercial Lease: Q13C301 2AM-MRY1325 Type "A" GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION REGION Mary River Mine Site, Baffin Island, NU **X** NUNAVUT □ ADJACENT JURISDICTION OR OCEAN SECONDS 40 DEGREES 79 MINUTES 22 DEGREES 71 SECONDS 56 MINUTES RESPONSIBLE PARTY OR VESSEL NAME RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Baffinland Iron Mines Corp. 2275 Middle Road East, Sutie 300, Oakville, ON L6H 0C3 ANY CONTRACTOR INVOLVED CONTRACTOR ADDRESS OR OFFICE LOCATION N/A N/A PRODUCT SPILLED QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES LLN NUMBER Hydraulic Oil 20 L N/A SECOND PRODUCT SPILLED (IF APPLICABLE) QUANTITY IN LITRES. KILOGRAMS OR CUBIC METRES U.N. NUMBER N/A N/A N/A SPILL CAUSE AREA OF CONTAMINATION IN SQUARE METRES **Articulating Water Truck** Ruptured Hydraulic Line 1 m2 FACTORS AFFECTING SPILL OR RECOVERY DESCRIBE ANY ASSISTANCE REQUIRED HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A N/A N/A ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS On August 7, 2015 at 11:30 HRS, while backing up the water truck at the Mine Site water jetty, the operator experienced brake failure and made contact with the water jetty seacan causing a hydraulic line on the truck to rupture. The operator immediately turned off the truck and notified the Environment Department. The ruptured hydraulic line spilled approximately 20 L of hydraulic oil onto the water jetty and sprayed less than 1 liter onto the adjacent water surface. Booms and absorbent pads were deployed to capture the sheen on the water surface. Contaminated soil and gravel on the water jetty was removed and placed in a Quatrex bag for future treatment at the Landfarm. Further details will be provided in the follow-up report. REPORTED TO SPILL LINE BY EMPLOYER LOCATION CALLING FROM TELEPHONE Allan Knight Env. Superintendent BIM Mine Site Ext. 6010 ANY ALTERNATE CONTACT EMPLOYER ALTERNATE CONTACT ALTERNATE TELEPHONE M Trevor Myers Off Site Ext. 6010 Env. Superintendent BIM REPORT LINE USE ONLY RECEIVED AT SPILL LINE BY POSITION **EMPLOYER** LOCATION CALLED REPORT LINE NUMBER STATION OPERATOR YELLOWKNIFE, NT (867) 920-8130 LEAD AGENCY = EC = CCG = GNWT = GN = LA = INAC = NEB = TC SIGNIFICANCE - MINOR - MAJOR - UNKNOWN FILE STATUS - OPEN - CLOSED AGENCY CONTACT NAME CONTACT TIME REMARKS LEAD AGENCY FIRST SUPPORT AGENCY SECOND SUPPORT AGENCY

PAGE 1 OF



September 25, 2015

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 Justin Buller jfbuller@qui.ca

Re: Follow-up to Spill #15-357, Reported on August 27th, 2015 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On August 26, 2015 at 19:00, a release of untreated sewage was noticed from the force main discharging from the BC wing lift station at the Milne Port accommodation complex. Upon further investigation, it was determined that a coupling on the lift station discharge line had come apart causing the release. The sewage spill affected an area of approximately 5 square metres (m2) on the adjacent land surface and is estimated to be approximately 200 litres. The location of the spill was on the camp pad and was greater than 100 meters from the closest water body

Immediate and Follow-Up Action:

The lift station pumps were shut off, and the Housing Maintainer and the Environment Department were notified. The vacuum truck was used to empty the lift station and remove any pooling sewage.

Recommendations:

Temperature changes, which cause the piping and fittings to expand and contract, promotes leaks and pipe failures. Ongoing routine inspection of the sewage lines are required to inspect for leaks and potential locations of failure. Currently, all of the sewage piping on the complex is currently in the process of being replaced.

Current Status:

The discharge pipe has been repaired and the system is back in service.

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

Allan Knight

Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

Bell Bonder

cc. Michael Anderson, Erik Madsen, Oliver Curran, Bernard Laflamme, Bikash Paul, Tony Woodfine, Jim Millard, Trevor Myers, Nicolas Kuzyk, Lea Willemse, Andrew Vermeer, Bill Bowden (Baffinland), Scott Burgess, Erik Allain, (AANDC), Manager of Licencing (NWB)



PHOTO 1 - Discharge Pipe Spill



PHOTO 2 - Discharge Pipe Spill Clean-up

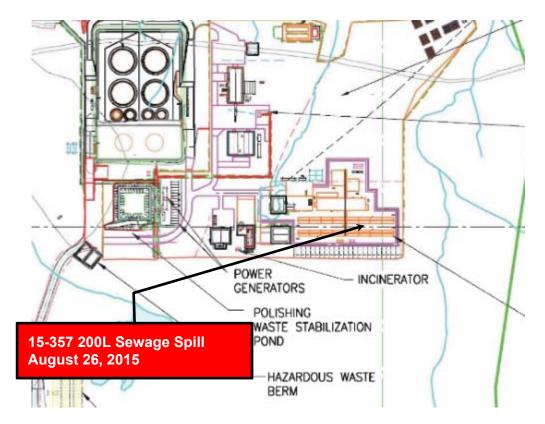


Figure 1 - Spill Location



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

_									REPORT LINE USE ONLY
Α	August 27, 2015	-YEAR		07:30		XORIGINAL SPILL REP	ORT,	REPORT NUMBER	
В	OCCURRENCE DATE: MONTH August 26, 2015	- DAY - YEAR				UPDATE # TO THE ORIGINAL SPILL	REPORT	15 . 357	
Н	LAND USE PERMIT NUMBER (IF APPLICABLE)			WATER LICEN	CE NUMBER (IF APPLICABLE)		
С	IOL - Commercial	Lease No.: Q13C			2AM-MRY1325 Type "A"				
D	Mary River Project		REGION NWT	X NUNAVUT	□ ADJACENT JUR	ISDICTION	I OR OCEAN		
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F	RESPONSIBLE PARTY OR VES Baffinland Iron Mi	SSEL NAME	RESPONSIBLE	PARTY ADD	RESS OR OF				
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G	NA		NA						
	PRODUCT SPILLED		QUANTITY IN LI			UBIC METRES			
Н	Sewage		Appox. 2				NA		
'''	SECOND PRODUCT SPILLED ((IF APPLICABLE)	NA	TRES, KILO	GRAMS OR C	UBIC METRES	NA NA		
Т	SPILL SOURCE		SPILL CAUSE					INATION IN	SQUARE METRES
	Sewer Line FACTORS AFFECTING SPILL O	OB BECOVERY	Broken F)	5 m2	ONS PRO	PERTY OR ENVIRONMENT
J	PAOTORO APPEOTING OF ILL C	A RESOVERI	DESCRIBE ANT	ASSISTAN	JE NEGOINEL	,	INDUIDO TO PERO	JONO, FRO	PENT ON ENVIRONMENT
	ADDITIONAL INFORMATION, C	COMMENTS, ACTIONS PROPO	SED OR TAKEN T	O CONTAIN	, RECOVER O	R DISPOSE O	F SPILLED PRODUCT /	ND CONT	AMINATED MATERIALS
K	discharging form pumps were shut apart releasing ap The location of th Further details of	off. Upon initial in oproximately 200 l e spill was greate the incident will b	nvestigatio L of untrea r than 100	on, a co ated se meters d in the	oupling o wage to s from a e spill fo	on the lif gravel g ny water llow up r	t station disch round below. body. report.	narge I	ine had come
L	REPORTED TO SPILL LINE BY Allan Knight	POSITION Env. Superint	endent	Baffin			OCATION CALLING FR	ОМ	TELEPHONE 647-253-0596
М	ANY ALTERNATE CONTACT Trevor Myers	POSITION Env. Superint		EMPLOYE Baffin			Off Site		647-253-0596
			REPORT LIN	E USE ON	LY				
	RECEIVED AT SPILL LINE BY	POSITION		EMPLOYE		L	OCATION CALLED		REPORT LINE NUMBER
N		STATION OPERATOR		<u></u>		1	ELLOWKNIFE, NT		(867) 920-8130
LEAD	AGENCY DEC DCCG DG	GNWT GN GILA GINAC	□ NEB □TC	SIGNIE	FICANCE III M	INOR - MAJ	OR □ UNKNOWN	FILE STAT	US □ OPEN □ CLOSED
AGE	NCY	CONTACT NAME		CONT	CTTIME		REMARKS		
LEAD	AGENCY								
FIRS	T SUPPORT AGENCY								
SEC	OND SUPPORT AGENCY								
THIRD SUPPORT AGENCY									

Figure 2 – NT-NU Spill Report



October 5, 2015

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 Justin Buller ifbuller@gia.ca

Re: Follow-up to Spill #15-370, Reported on September 7, 2015 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On September 6, 2015 at 21:00, a release of untreated sewage was noticed from the force main discharging from the main lift station at the Milne Port accommodation complex. Upon initial investigation, a coupling on the lift station discharge line had come apart releasing approximately 500 L of untreated sewage to the gravel surface under the line. The location of the spill was greater than 200 meters from any water body or watercourse.

Immediate and Follow-Up Action:

The lift station pumps were immediately turned off and personnel from the Maintenance and Environment Department were notified.

Recommendations:

Temperature changes, which cause the piping and fittings to expand and contract, promotes leaks and pipe failures. Ongoing routine inspection of the sewage lines are required to inspect for leaks and potential locations of failure.

Current Status:

The coupling has been repaired and the sewage line is back in service. Regular inspections are conducted on the sewage lift stations and sewage lines to verify the system is working as designed.

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:

Andrew Vermeer,

Environmental Coordinator

Allan Knight

Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Michael Anderson, Erik Madsen, Oliver Curran, Bernard Laflamme, Bikash Paul, Tony Woodfine, Jim Millard, Trevor Myers, Nicolas Kuzyk, Lea Willemse, Andrew Vermeer, Bill Bowden (Baffinland), Scott Burgess, Erik Allain, (AANDC), Manager of Licencing (NWB)

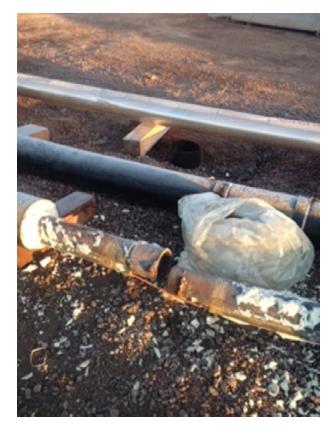


Photo 1 – Failed Joint (Insulation Removed)



Photo 2 - Repaired Joint

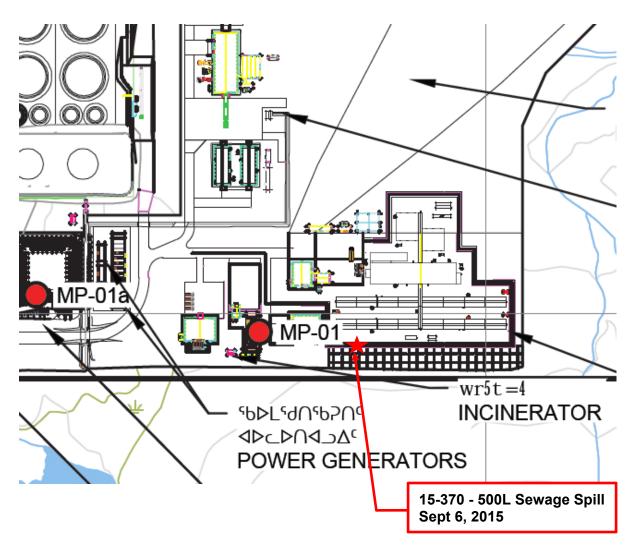


Figure 1 - Spill Location



NT-NU 24-HOUR SPILL REPORT LINE

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

Α	September 7, 2015				IME		XORIGINAL SPILL OR	REPORT,	REPORT NUMBER
В	OCCURRENCE DATE: MONTH - D September 6, 2015	AY – YEAR		000URRE	ENCE TIME		UPDATE #	SPILL REPORT	15 370
С	LAND USE PERMIT NUMBER (IF A			V	WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MRY1325 Type "A"				
D	GEOGRAPHIC PLACE NAME OR D	DISTANCE AND DIRECTION	N FROM NAMED LO	CATION	REGION	X NUNAVI		JURISDICTION	LOBOCEAN
E	LATITUDE DEGREES 71 MINUTES 53 SECONDS 01				LONGITUDE				
F	RESPONSIBLE PARTY OR VESSEL NAME RESPONSIBLE PARTY			ARTY ADD	RESS OR OF	FICE LOCAT	ION		
_	Baffinland Iron Mine	es Corp.	CONTRACTOR A				300, Oakville	, ON L6H	0C3
G	NA		NA						
	Sewage		Appox. 50			CUBIC METRI	NA U.N. NUMBER		
Н	SECOND PRODUCT SPILLED (IF A	APPLICABLE)	QUANTITY IN LIT	RES, KILO	GRAMS OR (CUBIC METRI	U.N. NUMBER		
I	Sewer Line		Broken Fo	orce M	Main		20 m2	TAMINATION IN	SQUARE METRES
J	FACTORS AFFECTING SPILL OR I	RECOVERY	DESCRIBE ANY /	ASSISTANO	CE REQUIRE	D	HAZARDS TO F	PERSONS, PRO	PERTY OR ENVIRONMENT
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Figure 2 – NT-NU Spill Report



October 12, 2015

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 Justin Buller ifbuller@qui.ca

Re: Follow-up to Spill #15-378, Reported on September 13th, 2015 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On September 13, 2015 at 08:30, a release of untreated sewage occurred after a sewage transfer truck reversed too far when filling the Milne Port waste water treatment plant. The lift station pumps were immediately shut off and spill containment was put in place while repair crews were arriving. The spill was subsequently cleaned up and the location of the spill was greater than 200 meters from any water body. The spill is estimated to be 150 liters and impacted an area of approximately 12m2.

Immediate and Follow-Up Action:

The lift station pumps feeding the main line were shut off, a spill tray was placed under the broken line and the Housing Maintainer and the Environment Department were notified. The vacuum truck was used to empty the spill tray and remove any pooling sewage.

Recommendations:

Barricades should to be installed to prove wheel resistance/stoppage to reversing vehicle traffic in close proximity to the line.

Current Status:

Barricades are in place and supervisors are following up on awareness of the hazard with the operators. The discharge pipe has been repaired and the system is back in service.

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:

Dustin Kunkel.

Duta Kinkel

Acting Environmental Coordinator

Trevor Myers

Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Bernard Laflamme, Erik Madsen, Bikash Paul, Tony Woodfine, Jim Millard, Allan Knight, Nicolas

Kuzyk, Lea Willemse (Baffinland),

Erik Allain, Scott Burgess (AANDC), Manager of Licencing (NWB)



PHOTO 1 – Discharge Pipe Spill



PHOTO 2/3 - Discharge Pipe Spill Clean-up and Berm Extension/Barricade

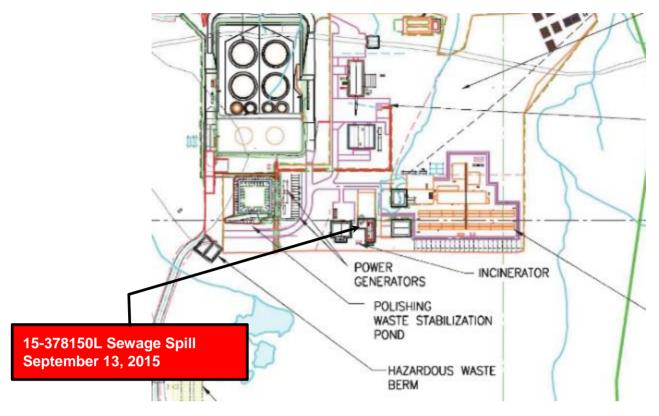


Figure 1 - Spill Location



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	September 13, 20	15		20:45	ΛE	X ORIGINAL SPILL RE	PORT,	REPORT NUMBER
В	September 13, 20			OCCURREN 08:30	CETIME	TO THE ORIGINAL SPI	LL REPORT	15 .378
С	LAND USE PERMIT NUMBER (I IOL - Commercial	301		ATER LICENCE NUMBER AM-MRY1325				
D GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Mary River Project Milne Port, Baffin Island, NU NUNAVUT DADJACENT JURISDICTION OR OCEAN								
Е	DEGREES 71		SECONDS 02	DI	GREES 80	MINUTES 53	SI	ECONDS 26
F	RESPONSIBLE PARTY OR VES Baffinland Iron Mi	nes Corp.	2275 Mid	dle Roa	ess or office Located East, Suite 3		ON L6H	0C3
G	ANY CONTRACTOR INVOLVED N/A		N/A	DDRESS OF	R OFFICE LOCATION			
Н	PRODUCT SPILLED Sewage		Approx. 1	150L	RAMS OR CUBIC METR	N/A		
П	SECOND PRODUCT SPILLED (IF APPLICABLE)	N/A	RES, KILOG	RAMS OR CUBIC METR	N/A		
I	Sewer Line		Broken F	orce Ma	ain	AREA OF CONTAI Approx. 1		SQUARE METRES
J	FACTORS AFFECTING SPILL O	R RECOVERY	N/A	ASSISTANC	EREQUIRED	N/A	ISONS, PROF	PERTY OR ENVIRONMENT
K	On September 13, sewage transfer tr station pumps we The spill was substhe nearest water 12 m2. Currently, the spill follow-up	ruck reversed to fare shut off and sp sequently cleaned body. The spill is the investigation i	ar when fill ill contain I up and th estimated	ling the ment w e locati to be 1	Milne Port wa as put in place ion of the spill 50 liters and ir	ster water trea while repair o was greater the npacted an are	atment p rews w nan 200 ea of ap	plant. The lift vere arriving. meters from oproximately
L	Trevor Myers	Enviro Superi		Baffinl		Mary River		(647)253-0596
М	ANY ALTERNATE CONTACT Jim Millard	Enviro Manag		Baffinl		Off Site		(902)403-1337
Г			REPORT LINE	USE ONLY	′			
N I	RECEIVED AT SPILL LINE BY	POSITION		EMPLOYER		LOCATION CALLED	F	REPORT LINE NUMBER
Ν		STATION OPERATOR				YELLOWKNIFE, NT	0	867) 920-8130
LEAD	AGENCY DEC DOOG DG	NWT GN GLA GINAC	□NEB □TC	SIGNIFI	CANCE MINOR MA		FILE STATU	US OPEN CLOSED
AGE	NCY	CONTACT NAME		CONTAC	TTIME	REMARKS		
LEAD	AGENCY							
H	T SUPPORT AGENCY							
SEC	OND SUPPORT AGENCY							
THIR	D SUPPORT AGENCY							

Figure 2 – NT-NU Spill Report

PAGE 1 OF __1



October 20, 2015

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 Justin Buller jfbuller@qia.ca

Re: Follow-up to Spill #15-399, Reported on September 21, 2015 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On September 21, 2015 at approximately 14:00 HRS, a release of approximately 500 liters of untreated sewage was discovered at the lift station located between the office and the kitchen of the Mine Site Complex. In investigating the spill, it was determined that the lift station pumps were not activated when the lift station filled up due to malfunctioning floats. The spill was cleaned up and the malfunctioning floats were replaced.

On September 24, 2015 at 16:00 HRS, a subsequent release of untreated sewage of approximately 1000 liters was observed at the same lift station. Upon investigating the spill, it was determined that the floats used to repair the lift station from the previously reported spill were not the correct floats and in turn did not trigger the lift station pumps to turn on when the lift station became full. The second spill was cleaned up and the proper floats were installed.

The location of the sewage spills was greater than 200 meters from the nearest water body.

Immediate and Follow-Up Action:

In the case of both spills, the lift station pumps were turned off, the lift station was locked out and a vacuum truck was used to empty the lift station of any remaining sewage. Pooled sewage from the spill was also removed with the vacuum truck.

Recommendations:

Routine inspections of the sewage lines and lift stations will continue to be done in order to ensure all components of the sewage system are working as designed.



Current Status:

The correct floats have been installed and the lift station is back in service. Both sewage spills have been cleaned up.

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:

Andrew Vermeer,

Environmental Coordinator

Reviewed by:

Trevor Myers, B.A.(Hon.), M.Sc. Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Michael Anderson, Erik Madsen, Oliver Curran, Bernard Laflamme, Bikash Paul, Tony Woodfine, Jim Millard, Trevor Myers, Nicolas Kuzyk, Lea Willemse, Andrew Vermeer, Bill Bowden (Baffinland), Scott Burgess, Erik Allain, (AANDC), Manager of Licencing (NWB)



Photo 1 – First Sewage Spill (Approx. 500 L)



Photo 2 – Second Sewage Spill (Approx. 1000 L)

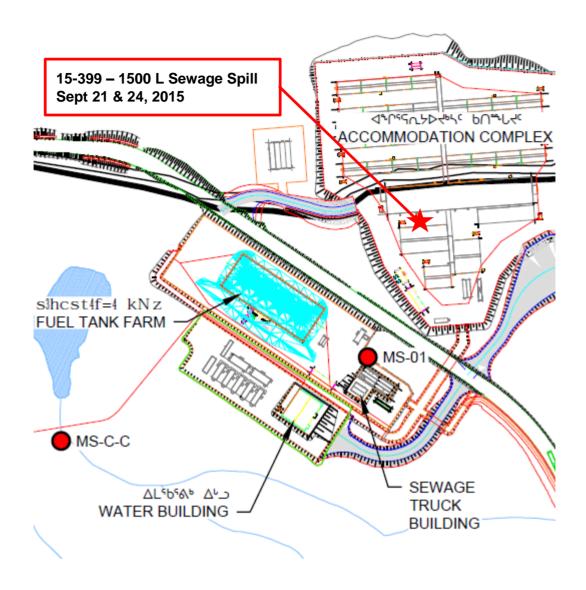


Figure 1 - Spill Location



THIRD SUPPORT AGENCY

NT-NU SPILL REPORT

OIL GASOLINE CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (887) 920-8130 FAX: (867) 873-6924 EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY REPORT DATE: MONTH - DAY - YEAR REPORT TIME CORIGINAL SPILL REPORT, September 22, 2015 13:00 REPORT NUMBER OB OCCURRENCE DATE: MONTH - DAY - YEAR OCCURRENCE TIME □ UPDATE # 15 . 399 В TO THE ORIGINAL SPILL REPORT September 21, 2015 14:00 LAND LISE PERMIT NUMBER (IE APPLICABLE) WATER LICENCE NUMBER (IF APPLICABLE) С IOL - Commercial Lease No.: Q13C301 2AM-MRY1325 Type "A" GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION REGION Mary River Project Mine Site, Baffin Island, NU □ NWT **X**NUNAVUT □ ADJACENT JURISDICTION OR OCEAN LATITUDE LONGITUDE DEGREES 79 18 SECONDS 53 MINUTES 17 SECONDS 01 DEGREES 71 MINUTES RESPONSIBLE PARTY OR VESSEL NAME RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Baffinland Iron Mines Corp. 2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3 ANY CONTRACTOR INVOLVED CONTRACTOR ADDRESS OR OFFICE LOCATION G| N/A N/A PRODUCT SPILLED QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES LLN NUMBER Sewage N/A Approx. 500 L SECOND PRODUCT SPILLED (IF APPLICABLE) QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES U.N. NUMBER N/A N/A N/A SPILL SOURCE SPILL CALISE AREA OF CONTAMINATION IN SQUARE METRES Sewage Lift Station Broken float switch Approx. 12m2 FACTORS AFFECTING SPILL OR RECOVERY HAZARDS TO PERSONS, PROPERTY OR ENVIRONMENT DESCRIBE ANY ASSISTANCE REQUIRED N/A N/A N/A ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS On September 21, 2015 at approximately 14:00, a release of untreated sewage was observed at the lift station located between the office and kitchen complexes of the Mine Site Complex. The float switch malfunctioned and the lift station pumps were not activated causing the sewage to overflow onto the adjacent ground surface. A vacuum truck was called to remove the sewage from the station and was transported to the WWTP for processing. After the sewage level was lowered, the pump was shut off, and the float switch was repaired within one hour. The spilled sewage was accessible, removed using the vacuum truck, and taken for disposal. The location of the spill was greater than 200 meters from the nearest water body. The spill was estimated to be <500 litres and impacted an area of approximately 12 m2 in extent. The investigation is ongoing and further details of the incident will be provided in the spill follow-up report. REPORTED TO SPILL LINE BY POSITION EMPLOYER LOCATION CALLING FROM TELEPHONE James Millard Enviro Manager Baffinland Mary River (647)253-0596 ANY ALTERNATE CONTACT POSITION EMPLOYER ALTERNATE CONTACT ALTERNATE TELEPHONE Mary River ext 6016 Allan Knight Enviro Superintendent Baffinland REPORT LINE USE ONLY POSITION LOCATION CALLED REPORT LINE NUMBER RECEIVED AT SPILL LINE BY EMPLOYER STATION OPERATOR VELLOWKNIEE NT (867) 920-8130 FILE STATUS ☐ OPEN ☐ CLOSED LEAD AGENCY DEC DCCG DGNWT DGN DILA DINAC DNEB DTC SIGNIFICANCE IN MINOR IN MAJOR IN UNKNOWN AGENCY CONTACT NAME CONTACT TIME REMARKS LEAD AGENCY FIRST SUPPORT AGENCY SECOND SUPPORT AGENCY

Figure 2 - NT-NU Spill Report (First Spill)



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	September 25, 20	•		16:00		☐ ORIGINAL SPILL REF	PORT,	REPORT NUMBER
В	September 24, 20			16:00	ENCE TIME	X UPDATE # 1 TO THE ORIGINAL SPIL	L REPORT	15 . 399
С	IAND USE PERMIT NUMBER (IF APPLICABLE) IOL - Commercial Lease No.: Q13C30'		13C301	WATER LICENCE NUMBER (IF 2AM-MRY1325 Ty				
D	Mary River Project				REGION NWT X NUNAVU	JT 🗆 ADJACENT JUI	RISDICTION	OR OCEAN
Ε	DEGREES 71	MINUTES 18	SECONDS 53	. [LONGITUDE DEGREES 79	MINUTES 17	s	ECONDS 01
F	RESPONSIBLE PARTY OR VES Baffinland Iron M				ad East, Suite 3		ON L6H	0C3
G	N/A	D	N/A	ADDRESS (OR OFFICE LOCATION			
	Sewage		Approx.		GRAMS OR CUBIC METRI	N/A		
Н	SECOND PRODUCT SPILLED N/A	(IF APPLICABLE)	QUANTITY IN LI	TRES, KILO	GRAMS OR CUBIC METRI	N/A		
I	Sewage Lift Station	on	SPILL CAUSE Broken f	loat sw	ritch	APPROX. 12		SQUARE METRES
J	FACTORS AFFECTING SPILL O	OR RECOVERY	N/A	ASSISTAN	CE REQUIRED	N/A	SONS, PRO	PERTY OR ENVIRONMENT
K	A subsequent reland kitchen comp from the lift station replacement float station pumps to transported to the vacuum truck, an back in service. The location of the The investigation report.	plexes of the Mon occurred or ts from the pre- turn on. A va- e WWTP for pr d taken for di ne spill was gre is ongoing an	line Site Comp n September 2 eviously report cuum truck wa ocessing. The sposal. These eater than 200	plex. T 4, 2015 ted spil as calle e spille e incorn meters ils of th	This second over the cause was the cause was the correct to the correct to the correct floats were the second the second the correct will the correc	rflow of appro s determined to ect and did no e sewage from accessible, rer replaced and est water body be provided in	ximate to be the t trigge the stanoved the lift the sp	ly 1,000 L ne or the lift ation and was using the station put
L	Allan Knight		perintendent	Baffin		Mary River		(647)253-0596
М	ANY ALTERNATE CONTACT Jim Millard	Enviro Ma	nager	Baffin		Off Site		(902)403-1337
			REPORT LIN	E USE ON	LY			
N	RECEIVED AT SPILL LINE BY		00	EMPLOYE	R	LOCATION CALLED		REPORT LINE NUMBER
STATION OPERATOR LEAD AGENCY DEC DCCG DGNWT DGN DILA DINAC DNEB DTC				SIGNIE	FICANCE II MINOR II MA	JOR UNKNOWN		(867) 920-8130 US OPEN CLOSED
AGE		CONTACT NAME			ACT TIME	REMARKS		
LEA	DAGENCY							
FIRS	T SUPPORT AGENCY							
SEC	OND SUPPORT AGENCY							
THIR	D SUPPORT AGENCY							

PAGE 1 OF __1

Figure 3 - NT-NU Spill Report (Second Spill)



October 27, 2015

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 Justin Buller jfbuller@qia.ca

Re: Follow-up to Spill #15-409, Reported on September 28, 2015
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On September 28, 2015 at 08:00, a release of untreated sewage was noticed below the discharge pipe originating from the lift station on the south side of the AG wing at the Mine Site Accommodations complex. The lift station pumps were shut off and a vacuum truck was called to remove the sewage from the lift station. During initial investigation, leaks were observed at various points along the insulated discharge pipe. The sewage spill affected an area of approximately 5 square meters on the adjacent land surface and is estimated to be approximately 200 litres. The location of the spill was greater than 200 meters from the nearest water body.

Immediate and Follow-Up Action:

The lift station pumps were immediately turned off and personnel from the Maintenance and Environment Department were notified. Upon further investigation it was determined that one coupling had failed on the discharge line, allowing sewage to migrate down gradient of the pipe and release through joints in the insulation material.

Recommendations:

Temperature changes, which cause the piping and fittings to expand and contract, promotes leaks and pipe failures. Ongoing routine inspection of the sewage lines are required to inspect for leaks and potential locations of failure.

Current Status:

The failed coupling was repaired and the sewage line put back in service. Regular inspections are conducted on the sewage lift stations and sewage lines to verify the system is working as designed.

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:

Bill Bowden,

Environmental Coordinator

Allan Knight

Reviewed by:

Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

Bill Bowder

cc. Erik Madsen, Oliver Curran, Bernard Laflamme, Bikash Paul, Tony Woodfine, Jim Millard, Trevor Myers, Nicolas Kuzyk, Lea Willemse, Andrew Vermeer, Bill Bowden (Baffinland), Scott Burgess, Erik Allain, (AANDC), Manager of Licencing (NWB)



Photo 1 – Failed Joint



Photo 2 – Repaired Joint

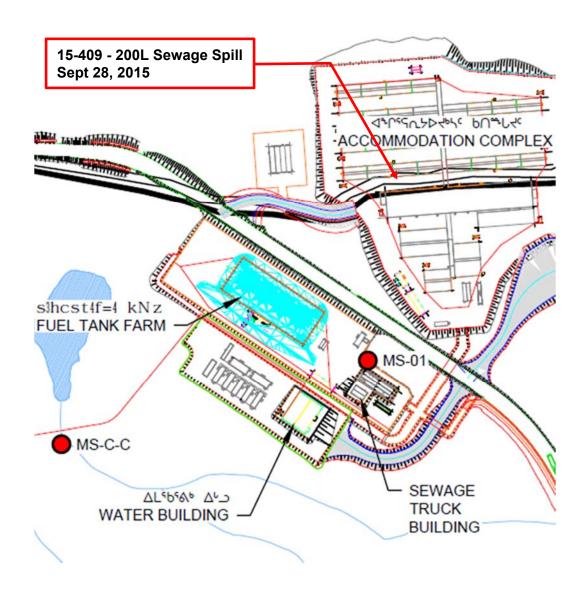


Figure 1 - Spill Location



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	September 28, 20	15			8:00	TIME		OF	ORIGINAL SPILL REP	ORT,	REPORT NUMBER
В	OCCURRENCE DATE: MONTH September 28, 20		/ -YEAR		occurr unkn				UPDATE # THE ORIGINAL SPILI	L REPORT	15 - 409
С	IOL - Commercial			3C301		13300	ERLICENCE NUMBE				
D	Mary River Project						REGION □NWT X NUNAN	VUT	☐ ADJACENT JUF	RISDICTION	OR OCEAN
Е	DEGREES 71	MIN	UTES 18	SECONDS 52	2		IGITUDE GREES 79		MINUTES 17	S	ECONDS 02
F	RESPONSIBLE PARTY OR VES Baffinland Iron M						ss or office Loca d East, Suite			N L6H	0C3
G	ANY CONTRACTOR INVOLVED N/A		CONTRACTOR N/A	ADDRESS	OR	OFFICE LOCATION					
	PRODUCT SPILLED Sewage			Approx.		.OGR	AMS OR CUBIC MET	RES	U.N. NUMBER		
Н	SECOND PRODUCT SPILLED	(IF AF	PLICABLE)	N/A	ITRES, KIL	.OGR	AMS OR CUBIC MET	RES	U.N. NUMBER		
I	SPILL SOURCE Lift Station Disch	arg	e Pipe	SPILL CAUSE Coupling	g Failu	ire			Approx. 5r		SQUARE METRES
J	FACTORS AFFECTING SPILL O	OR RE	COVERY	Vacuum			REQUIRED		N/A	SONS, PRO	PERTY OR ENVIRONMENT
K	discharge pipe or Accommodations station pumps we During initial inve The sewage spill is estimated to be the nearest water provided in the sp	ere estigaffe affe ap	omplex. The shut off. A vector of the second an area oproximately dy. The investor of the second of	housing mai vacuum truck were observa of approxir 200 litres. T estigation is c	intaine k was ved at nately he loc	cal va 5 s	otified the E led to remov rious points square meter on of the spi	nvi e tl alo rs o ll w	ronment dep he sewage fr ing the insula on the adjace vas greater th	oartme om the ated di ent land nan 200	nt and the lift e lift station. scharge pipe. d surface and d meters from
L	REPORTED TO SPILL LINE BY Allan Knight		POSITION Enviro Supe	erintendent	Baffin		nd		CATION CALLING FR	10000	(647)253-0596
М	ANY ALTERNATE CONTACT Trevor Myers		POSITION Enviro Supe	erintendent	EMPLOYI Baffii		nd	AL	TERNATE CONTACT		ALTERNATE TELEPHONE ext 6010
$\overline{}$				REPORT LIN	IE USE OF	NLY					
N 1	RECEIVED AT SPILL LINE BY		POSITION		EMPLOY	ER		LO	CATION CALLED		REPORT LINE NUMBER
N			STATION OPERATOR	a				YE	LLOWKNIFE, NT		(867) 920-8130
LEA	AGENCY DEC DCCG DC	3NWT	GN DILA DIN	NAC NEB TC	SIGN	IIFIC/	ANCE MINOR M	MAJOE	R UNKNOWN	FILE STAT	US OPEN CLOSED
AGE	NCY	CONT	TACT NAME		CON	TACT	TIME		REMARKS		
LEA	AGENCY										
FIRS	T SUPPORT AGENCY										
SEC	OND SUPPORT AGENCY										
THIE	RD SUPPORT AGENCY										

PAGE 1 OF 1

Figure 2 – NT-NU Spill Report



November 3, 2015

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 Justin Buller jfbuller@qia.ca

Re: Follow-up to Spill #15-417, Reported on October 5, 2015
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On October 4, 2015 at 16:30, a release of waste oil was discovered inside MP-HWP-1 hazardous waste storage berm during an inventory of the contents. A small puncture on the bottom of the tote released approximately 300L of oil onto the ground inside the berm as well as underneath other waste oil totes being stored in the berm, impacting an area of roughly 6 square metres. The location of the spill was approximately 50 metres from the ocean and inside an engineered lined secondary containment berm.

Immediate and Follow-Up Action:

The empty broken tote and four other waste oil totes which were inside the spill area were lifted with a skid steer and residual oil on the containers was wiped off with sorbent pads. The oil, snow, and soil in the area was shoveled into drums. Remaining residual contaminated soil will be cleaned up with shovels when warmer weather allows the soil to be removed without risking compromising the berm's liner integrity.

Recommendations:

Remind crews that depositing of waste in containment berms must be under the direction of the Fixed Plant Site Services Department only. Consideration being given to posting Authorized Personnel Only signs at these structures.

Current Status:

Crews are being reminded of proper waste disposal procedures at daily morning tool box meetings.

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 Ext.6010 or Jim Millard at (902) 403-1337.

Prepared By:

Reviewed by:

Allan Knight, B.Sc.

Environmental Superintendent

Trevor Myers, B.A.(Hon.), M.Sc. Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Erik Madsen, Oliver Curran, Bernard Laflamme, Bikash Paul, Tony Woodfine, Jim Millard, Nicolas Kuzvk, Lea Willemse, Andrew Vermeer, Bill Bowden (Baffinland).

Scott Burgess, Erik Allain, (AANDC)



Photo 1 – Waste Oil Spill



Photo 2 - Totes Removed and Cleanup Underway

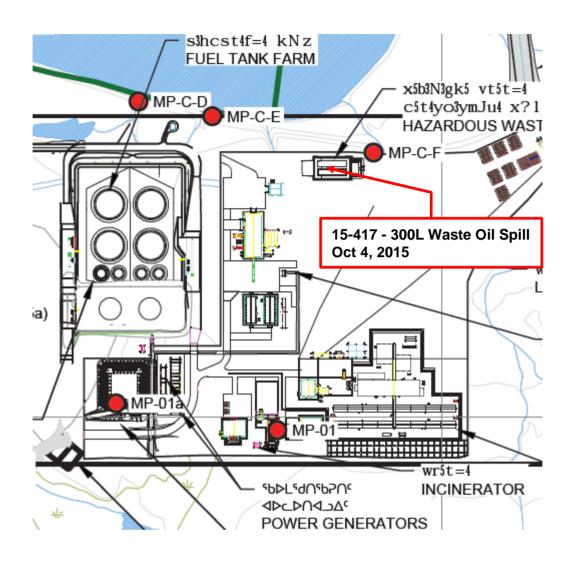


Figure 1 - Spill Location



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

									REPORT LINE USE ONLY
Α	REPORT DATE: MONTH – DAY			REPORT TII	ИE	X OR	IGINAL SPILL REPOR	RT,	
	October 5, 2015			07:00		OR			REPORT NUMBER
В	October 4, 2015		V200439 4(200038440)		16:30		DATE # IE ORIGINAL SPILL F	REPORT	<u>15 - 417</u>
С	LAND USE PERMIT NUMBER (I	Lease No.: Q13C		2	ATER LICENCE NUMBE				
D	GEOGRAPHIC PLACE NAME OF Mary River Project				REGION □ NWT XNUNA	VUT	☐ ADJACENT JURIS	DICTION	OR OCEAN
Е	LATITUDE DEGREES 71	MINUTES 53	SECONDS 12	DI	DNGITUDE EGREES 80		MINUTES 53	S	ECONDS 17
F	RESPONSIBLE PARTY OR VES Baffinland Iron Mi		references contacts absorber tool		ess or office Loca id East, Suite		Oakville, ON	I L6H	0C3
G	ANY CONTRACTOR INVOLVED NA)	CONTRACTOR AI	DDRESS O	R OFFICE LOCATION				
ш	PRODUCT SPILLED Waste Oil		Appox. 30		RAMS OR CUBIC MET		J.N. NUMBER NA		
H	SECOND PRODUCT SPILLED ((IF APPLICABLE)	QUANTITY IN LIT	RES, KILOO	RAMS OR CUBIC MET		J.N. NUMBER NA		
I	SPILL SOURCE Broken Tote		SPILL CAUSE Damaged	Tote		1000	AREA OF CONTAMINA 6 m2	ation in	SQUARE METRES
J	FACTORS AFFECTING SPILL C Frozen Conditions		NA	ASSISTANC	E REQUIRED		HAZARDS TO PERSONS, PROPERTY OR ENVIRONMENT		
K	hazardous waste other waste oil to the containers wa into drums. Rema weather allows th initial investigatio ground inside the The location of the berm.	storage berm duites which were in is wiped off with sining residual co e soil to be remon, a small punctu containment ber e spill was appro	ring an invention and inventio	use of waste oil was discovered from a tote inside ing an inventory of the contents. The empty broke side the spill area were lifted with a skid steer and orbent pads. The oil, snow, and soil in the the are ntaminated soil will be cleaned up with shovels where without risking compromising the berm's liner on the bottom of the tote released approx. 300Lm underneath other waste oil totes.					
L	REPORTED TO SPILL LINE BY Allan Knight	POSITION Env. Superint		EMPLOYER Baffinl		100000000000000000000000000000000000000	TION CALLING FROM TE Site		TELEPHONE 647-253-0596
M	ANY ALTERNATE CONTACT Trevor Myers	POSITION Env. Superint	1	EMPLOYER Baffinl			RNATE CONTACT F.Site		ALTERNATE TELEPHONE 647-253-0596
	100		REPORT LINE	USE ONL	1	June 546	2000 p. 1956		
N	RECEIVED AT SPILL LINE BY	POSITION	[EMPLOYER		LOCA	TION CALLED	1	REPORT LINE NUMBER
IN		STATION OPERATOR				YELLO	OWKNIFE, NT		(867) 920-8130
LEAD	AGENCY DEC DCCG DG	GNWT □ GN □ ILA □ INAC	D □ NEB □ TC	SIGNIFI	CANCE □ MINOR □ M	MAJOR [UNKNOWN	ILE STAT	US □ OPEN □ CLOSED
AGE		CONTACT NAME		CONTAC	TTIME	RI	EMARKS		
	D AGENCY								
C2 40 (ACCULA	T SUPPORT AGENCY								
SEC	OND SUPPORT AGENCY		1						
	ID SUPPORT AGENCY								

PAGE 1 OF 1

Figure 2 – NT-NU Spill Report



November 8, 2015

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 Justin Buller jfbuller@qia.ca

Re: Follow-up to Spill #15-425, Reported on October 9, 2015
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On October 9, 2015 at 11:45 while driving down the Mine Site Haul Road, a boom truck operator observed that a portable tank on the boom truck containing aircraft de-icing fluid was leaking. Upon further investigation it was determined that the fitting on the portable tank had broken during transport, releasing approximately 300 L of aircraft de-icing fluid onto the road surface. The aircraft de-icing fluid, Cryotech Polar Plus® 63/37 Dilute, is classified as non-hazardous and readily biodegradable. The spill location (KM104) is greater than 100 meters away from the nearest waterbody, which was frozen at the time of the spill.

Immediate and Follow-Up Action:

The operator immediately stopped the truck and plugged the leak, preventing any additional fluid from spilling onto the ground. The shift supervisor as well as the Environment Department were notified immediately and spill pads were used to absorb the spilled fluid.

Recommendations:

Tank fittings should be regularly inspected for signs of fatigue from vibration. Also ensure that all straps are tightened prior to driving on rough surfaces to reduce the amount of possible movement during transport.

Current Status:

The fitting has been repaired.

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 Ext.6010 or Jim Millard at (902) 403-1337.

Prepared By:

Reviewed by:

Trevor Myers, B.A.(Hon.), M.Sc. Environmental Superintendent

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

Attach: Photos, Map, NT-NU Spill Report, Polar Plus® Fact Sheet and Polar Plus® MSDS.

cc. Erik Madsen, Oliver Curran, Bernard Laflamme, Bikash Paul, Tony Woodfine, Jim Millard, Nicolas Kuzyk, Lea Willemse, Andrew Vermeer, Bill Bowden (Baffinland), Scott Burgess, Erik Allain, (AANDC)



Photo 1 – De-icing Fluid Spill



Photo 2 – Broken Fitting

Figure 1 - Spill Location Map

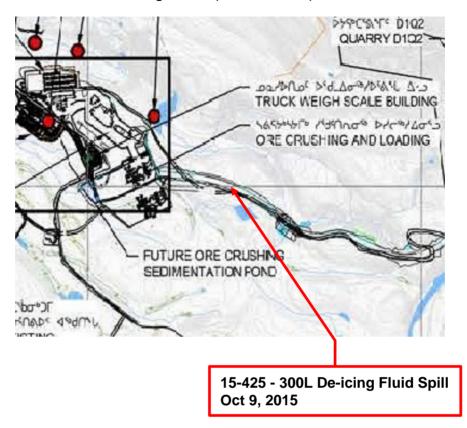


Figure 2 - NT-NU Spill Report



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 - YE.	AR	REPORT TIME		ORIGINAL SPILL REPORT,					
^	October 9, 2015	ANNO MARIOMANIAN	21:00	0	R	REPORT NUMBER				
В	October 9, 2015	554 82646934459	11:45	To	UPDATE #OTHE ORIGINAL SPILL REPORT	15 - 425				
С	IOL - Commercial Le	ease No.: Q13C301	2A	water licence number (if applicable) 2AM-MRY1325 Type "A"						
D	Mary River Project N	istance and direction from named / lilne Port, Baffin Island,	NU _	REGION ⊐NWT X NUNAVUT	☐ ADJACENT JURISDICTIO	N OR OCEAN				
Е	100000000000000000000000000000000000000	TOTEO OECOTIBO -	9 DEGI	GITUDE REES 79		SECONDS 35				
F	RESPONSIBLE PARTY OR VESSEL Baffinland Iron Mine	es Corp. 2275 Mi	ddle Road		N 0, Oakville, ON L6H	H 0C3				
G	ANY CONTRACTOR INVOLVED N/A	N/A		DEFICE LOCATION						
Н	PRODUCT SPILLED Aircraft De-icing Flui	id 300 Litr		AMS OR CUBIC METRES	N/A					
Г	SECOND PRODUCT SPILLED (IF AF	N/A	LITRES, KILOGRA	AMS OR CUBIC METRES	U.N. NUMBER N/A					
I	Portable Tank	SPILL CAUSE Damage	ed Bung or	n Tank	AREA OF CONTAMINATION II 6 m2	N SQUARE METRES				
J	FACTORS AFFECTING SPILL OR RENAMED	DESCRIBE AN N/A	IY ASSISTANCE R	REQUIRED	HAZARDS TO PERSONS, PRO	OPERTY OR ENVIRONMENT				
	, n	MENTS, ACTIONS PROPOSED OR TAKEN								
K	On October 9, 2015 a discovered that a po operator immediately spilling onto the gro tank had broke during road. The aircraft de readily biodegradable	at 11:45 while driving do ortable tank on the boom by stopped the truck and ound. Upon further invesing transport, releasing a cicing fluid, Cryotech Po le. The spill location (km dent is currently under in	wn the Mir truck con plugged tl tigation it v pproximat plar Plus 63 1 104) is gr	ne Site Haul Ro ntaining aircraf he leak, prever was determine tely 300 L of air 3/37 Dilute, is c reater than 100	oad, a boom truck of t de-icing fluid was nting any additiona ed that the bung on rcraft de-icing fluid classified as non-ha meters away from	pperator leaking. The I fluid from the portable onto the azardous and the nearest				
K	On October 9, 2015 a discovered that a po operator immediately spilling onto the grotank had broke during road. The aircraft de readily biodegradably waterbody. The incidence of the control of the cont	at 11:45 while driving do ortable tank on the boom by stopped the truck and ound. Upon further invesing transport, releasing a cicing fluid, Cryotech Po le. The spill location (km dent is currently under in	wn the Mir truck con plugged the tigation it to pproximate plar Plus 63 a 104) is granvestigation	ne Site Haul Ro ntaining aircraf he leak, prever was determine tely 300 L of air 3/37 Dilute, is o reater than 100 on and further	oad, a boom truck of t de-icing fluid was nting any additiona ed that the bung on rcraft de-icing fluid classified as non-ha meters away from	pperator leaking. The I fluid from the portable onto the azardous and the nearest				
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PAGE 1 OF ___1___

Figure 3 - Polar Plus® Fact Sheet



SINGER PLOS®

BENEFITS

- · Certified propylene glycol based Type I aircraft deicing/anti-icing fluid
- · Easy to apply with existing equipment
- · Even dispersal for superior wetting
- · Dilutes to required temperature for economical savings

PERFORMANCE

- Two year product warranty (original sealed container; stored within temperature storage limits)
- Exhibits a Lowest Operational Use Temperature (LOUT) of -25.6°F (-32°C) at a 63% Polar Plus/37% water dilution
- Exhibits a Lowest Operational Use Temperature (LOUT) of -10.0°F (-23.3°C) at a 55% Polar Plus/45% water dilution

ENVIRONMENT

- · Triazole free
- · Does not contain nonylphenol ethoxylate surfactants
- Aquatic Toxicity:

Aquatic Species	Test Duration Hours	LC50 Concentrate Fluid mg/L	Test Method
Pimephales promelas	96	6350	EPA 40CFR797.1400
Daphnia magna	48	6825	EPA 40CFR797.1300

- · Readily biodegradable
- · Classified as non-hazardous

HANDLING

- · Avoid contact with skin and eyes
- · Avoid breathing mists/vapors when spraying
- · Keep in tightly sealed containers, away from direct heat, sunlight, and strong oxidizing agents
- Store away from extreme temperatures; below -50°F (-45°C) or above 140°F (60°C)
- · Contact Cryotech for advice on bulk and/or heated storage

See Reverse Side For Product Specifications
Test Data Available Upon Request
ISO 9001:2008 & 14001:2004 CERTIFIED COMPANY

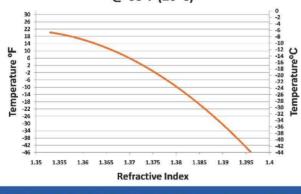
CRYOTECH

© 2011 Copyright Cryotech Deicing Technology

PRODUCT SPECIFICATIONS - POLAR PLUS®

COMPOSITION	Contains minimum 88% propylene glycol
APPEARANCE	Orange liquid
DENSITY	At 68°F (20°C) = 8.69 lbs/US gallon
VISCOSITY	Brookfield LVDV-1, Spindle No. LV1 @ 12rpm @ 68°F (20°C) = 25 cPs
FLASH POINT	Not lower than 212⁰F (100⁰C)
FREEZING POINT	100/0 = Below -76°F (-60°C) 50/50 = Not higher than -17.3°F (-27.4°C)
REFRACTIVE INDEX	At 68°F (20°C) = 1.4230 - 1.4260
BRIX	At 68°F (20°C) = 51.4 - 52.8
STORAGE STABILITY	2 years under normal storage conditions
TYPICAL pH	At 68°F (20°C) = 8.3 - 9.3
SPECIFIC GRAVITY	At 68°F (20°C) = 1.04
PACKAGING	55 gallon drums (208 liters) - 4 drum minimum 265 gallon tote (1003 liters) - 1 tote minimum Bulk - 5000 gallons minimum

Freezing Point vs. Refractive Index @ 68°F (20°C)





TO ORDER OR FOR PRODUCT INFORMATION CONTACT:

Ph: +1 319.372.6012 or +1 800.346.7237 Fax: +1 319.372.2662

E-mail: deicers@cryotech.com

Cryotech Deicing Technology . 6103 Orthoway . Fort Madison, IA . 52627 WWW.CRYOTECH.COM





Form #MKT1300 Rev. 08/04/2014

Figure 3 - Polar Plus® MSDS



CRYOTECH POLAR PLUS®

63/37 DILUTE

Type I Aircraft Deicing/Anti-icing Fluid MATERIAL SAFETY DATA SHEET

1. PRODUCT NAME & DESCRIPTION

CRYOTECH POLAR PLUS®

63/37 DILUTE - Ready to Use (Consisting of 63% Polar Plus and 37% water)

Type I Aircraft Deicing/Anti-icing Fluid Complies with Specification AMS 1424

MANUFACTURED AND SUPPLIED IN THE USA BY:

Cryotech Deicing Technology 6103 Orthoway Fort Madison, IA 52627 United States

CRYOTECH CONTACT INFORMATION:

Telephone: (800)346-7237 FAX. (319)372-2662 email: deicers@cryotech.com website: http://www.cryotech.com

2. CHEMICAL COMPOSITION

The percent compositions are given to allow for the various ranges of the components present in the whole product and may not equal 100%.

PERCENT	COMPONENT	CAS#
100%	Cryotech Polar Plus™ 63/37 Dilute Type I	
CONTAINING	AND PROCESSION AND ADDRESS OF THE PROCESS OF THE PROCESS OF THE PR	
55%	Propylene Glycol	57-55-6
<1%	Corrosion Inhibitors	
45%	Water	7732-18-5
CAS - Chemical	Abstract Service Number	

3. HAZARD IDENTIFICATION (also see Sections 11 and 12) CAUTION! - MAY CAUSE EYE IRRITATION

EYE CONTACT:

This substance may be slightly irritating to the eyes.

SKIN IRRITATION:

This substance is not expected to cause prolonged or significant skin irritation.

RESPIRATORY/INHALATION: This material does not present an inhalation hazard.

INGESTION:

If swallowed, this substance is considered practically non-toxic to internal organs.

4. FIRST AID MEASURES

Chemical Emergency: Spill, leak, fire, or accident call Chemtrec day or night (800)424-9300; Outside continental USA call (703)527-3887

Flush eves immediately with fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. No additional first aid should be necessary. However, if irritation persists, see a doctor. SKIN CONTACT:

No first aid procedures are required. As a precaution, wash skin thoroughly with soap and water. Remove and wash contaminated clothing.

Since this material is not expected to be an immediate inhalation problem, no first aid procedures are required.

INGESTION:

If swallowed, give water or milk to drink and telephone for medical advice.

DO NOT make the person vomit unless directed to do so by medical personnel. If medical advice cannot be obtained, then take the person and product container to the nearest medical emergency treatment center or hospital.

5. FIRE FIGHTING MEASURES

FLASH POINT (close cup):

None below boiling point.
AUTO IGNITION:

EXPOSURE LIMITS: No data available

EXTINGUISHING MEDIA:

Water, foam, Carbon Dioxide, dry powder,

FIRE FIGHTING PROCEDURES:

HAZARDOUS DECOMPOSITION PRODUCTS:
Incomplete combustion may produce Carbon Monoxide and other harmful nases/vapors

The product may become combustible after prolonged heating at the boiling point.

NFPA RATINGS:

Health 0; Flammability 1; Reactivity 0; Special NDA: (Least - 0, Slight - 1, Moderate - 2, High - 3, Extreme - 4) These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint Coating Association.

6. ACCIDENTAL RELEASE MEASURES

Chemical Emergency: Spill, leak, fire, or accident call Chemtrec day or night (800)424-9300; Outside continental USA call (703)527-3887

SPILL/LEAK PRECAUTIONS:

Contain spillage and absorb on suitable material e.g. sawdust, sand or earth.

Transfer to a container for disposal.

See section 13.

Wash the spillage area with plenty of water.

7. HANDLING AND STORAGE

STORAGE:

Store in tightly sealed original containers, away from direct heat, sunlight and strong

SPECIAL PRECAUTIONS:

Avoid contact with skin and eyes

Avoid breathing mists/vapors when spraying. TEMPERATURE STORAGE LIMITS:

Maximum 60°C (140°F)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION:

Wear eye protection if splashing is possible.

SKIN PROTECTION:

No special skin protection is usually necessary.

Avoid prolonged or frequently repeated skin contact with this

Skin contact can be minimized by wearing protective

RESPIRATORY PROTECTION:

No special respiratory protection is normally

VENTILATION:
No special ventilation is necessary.



CRYOTECH POLAR PLUS®

63/37 DILUTE

Type I Aircraft Deicing/Anti-icing Fluid MATERIAL SAFETY DATA SHEET

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

Clear, orange fluid. ODOR:

REFRACTIVE INDEX (20°C):

1.395 - 1.398 pH (20°C):

7.0 - 9.0 BOILING POINT:

FLAMMABILITY DATA:

VAPOR PRESSURE (20°C):

SPECIFIC GRAVITY (20°C):

VAPOR DENSITY (AIR = 1):

FREEZING POINT:

-42.2°C (-44°F) VISCOSITY (20°C):

SOLUBILITY: Completely miscible in water.

10. STABILITY & REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS:

STABILITY:

HAZARDOUS POLYMERIZATION:

Polymerization will not occur. INCOMPATIBILITY:

May react with strong acids or strong oxidizing agents, such as chlorates, nitrates,

SPECIAL PRECAUTIONS:
READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL.

Store away from strong oxidizing materials

11. TOXICOLOGICAL INFORMATION

Considered to have low oral toxicity.

See also section 3.

LD₅₀ >10g/Kg (estimated) Rat - oral

LC_{so} Pimephales Promelas 6,350 mg/L (96h) undiluted

LC₅₀ Daphnia Magnia 6,825 mg/L (48h) undiluted

12. ECOLOGICAL INFORMATION

COD (20°C): 0.99 kg O₂/kg fluid (calculated)

BOD₅ (20°C): 0.40 kg O₂/kg fluid (calculated)

5 day BOD/COD: 0.41 (calculated)

13. DISPOSAL CONSIDERATION

Based on information available to Cryotech Deicing Technology, this product is neither listed as a hazardous waste nor does it exhibit any of the characteristics that would cause it to be classified or disposed of as an RCRA hazardous waste. If product should spill or be otherwise unsuitable for normal deicing applications, it may be absorbed on suitable materials and disposed of in sanitary landfill unless state or local regulations prohibit such disposal.

14. TRANSPORT INFORMATION

Not restricted under any transport regulations.

15. REGULATORY INFORMATION

ALL OF THE COMPONENTS IN THIS PRODUCT ARE ON THE

FOLLOWING INVENTORY LISTS:
U.S.A. (TSCA), Europe (EINECS), Canada (DSL/NDSL).

TSCA SECTION 12(b):
None of the chemicals in this product are listed under TSCA Section 12(b).

OSHA HAZARD CLASSIFICATION:

Hazardous Chemical (Irritant);

None of the chemicals in this product are considered highly hazardous by OSHA.

CERCLA HAZARDOUS SUBSTANCES:
There is no CERCLA Reportable Quantity for this material.

SARA 311 CATEGORIES:

Immediate (Acute) Health Hazard: Delayed (Chronic) Health Hazard: No Sudden Release of Pressure Hazard: No

Reactivity Hazard: SARA 313:

None of the chemicals in this product are subject to reporting requirements under SARA Section 313.

CLEAN WATER ACT:

None of the chemicals in this product are listed as Priority Pollutants under the CWA

None of the chemicals in this product are listed as Toxic Pollutants under the CWA. STATE RIGHT-TO-KNOW:

No

STATE RIGHT-TO-KNOW:
This product does not contain materials listed on the specific Toxic or Hazardous Substance Lists of the following states: PA, MA, NJ. This product may contain a chemical known to the State of California (Proposition 65) to cause cancer: Propylene Oxide (CAS 75-56-9). This product may contain a chemical known to the State of California (Proposition 65) to cause cancer and/or reproductive harm: Ethylene Oxide (CAS 75-21-8).

WHMIS (Canada) CLASSIFICATION:

Not controlled

16. OTHER INFORMATION

This Material Safety Data Sheet contains environmental, health and toxicology information for your employees. Please make sure this information is given to them. It also contains information to help you meet community right-to-know/emergency response reporting requirements under SARA Title III and many other laws. If you resell this product, this MSDS must be given to the buyer or the information incorporated in your

MSDS. Discard any previous edition of this MSDS.

Latest version of this MSDS can be obtained from Cryotech.

The above information is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use or misuse are beyond our control, Cryotech Deicing Technology, a Division of General Atomics International Services Corporation makes no warranty, either express or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. Cryotech Deicing Technology, a Division of General Atomics International Services Corporation assumes no responsibility for any injury or loss resulting from the use of the product described herein. User should satisfy himself that he has all current data relevant to his particular use

November 9, 2015

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 Justin Buller jfbuller@qia.ca

Re: Follow-up to Spill #15-426, Reported on October 10, 2015
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On the night shift of October 8, 2015, an incident occurred at the Mine Site involving the release of sump water from the Maintenance Shop to a location immediately adjacent to the shop bay doors. As a result of a miscommunication, a worker opened the valve of a plastic tote containing water that had been collected from the floor sumps in the shop and the contents emptied on the ground. The sump water was reported to contain a small quantity of free floating product. Frozen ground conditions minimized soil infiltration and the water which was released pooled at the base of the ramp to the shop and froze. The approximate volume of the spill is conservatively 1000 litres and impacted an area of roughly 22 meters square. The location of the occurrence is approximately 300 metres from the nearest receiving waters, which are currently frozen.

Immediate and Follow-Up Action:

Upon receiving the report of the incident, an internal investigation into the cause was initiated. The results of the investigation determined that the incident occurred as a result of a miscommunication. The spill was subsequently cleaned up, with the frozen water being scraped up using a loader and brought to the contaminated snow dump at Milne Port. Material from the ramp was also removed using an excavator and brought to the landfarm at Milne Port.

Recommendations:

An SOP (Standard Operating Procedure) should to be developed to address this activity and to prevent future occurrences of this nature. Personnel involved with this task should be trained accordingly.

Current Status:

An SOP has been developed for this task and has been implemented. All personnel involved with this activity have been trained in accordance with the newly developed SOP.

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 Ext.6010 or Jim Millard at (902) 403-1337.

Prepared By:

Trevor Myers, B.A.(Hon.), M.Sc.

Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

Reviewed by:

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

cc. Erik Madsen, Oliver Curran, Bernard Laflamme, Bikash Paul, Tony Woodfine, Jim Millard, Nicolas Kuzyk, Lea Willemse, Andrew Vermeer, Bill Bowden (Baffinland), Scott Burgess, Erik Allain, (AANDC)

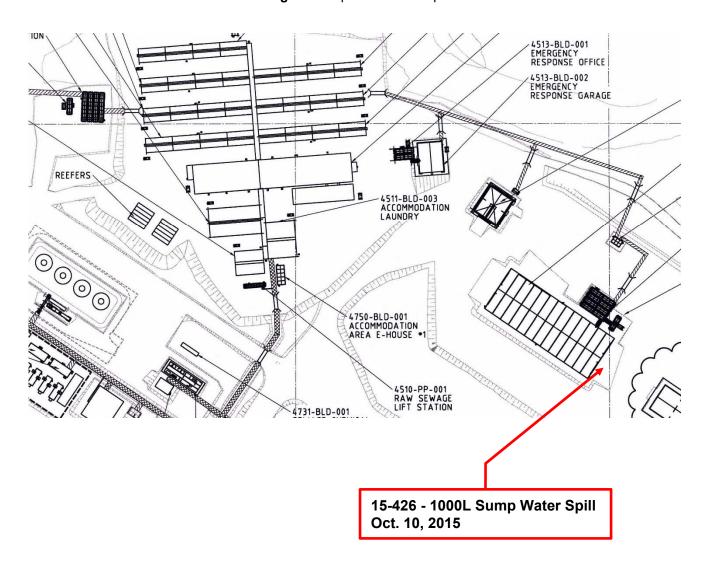


Photo 1 – Sump Water Spill



Photo 2 – Sump Water Spill

Figure 1 - Spill Location Map







NT-NU 24-HOUR SPILL REPORT LINE TEL: (867) 920-8130 FAX: (867) 873-6924 EMAIL: spills@gov.nt.ca

		OIL, and chire, -	E, VILINIONES AND OTHER HAZARDOOS MATERIALS					REPORT LINE USE ONLY		
٨	REPORT DATE: MONTH - DAY	-YEAR		REPORT 1			- COLONIAL CORT. DE		narom con con	
Α	October 10, 2015			17:45			OR ORIGINAL SPILL RE	PORI,	REPORT NUMBER	
В	October 8, 2015	- DAY - YEAR		03:00	ENCE TIME		UPDATE # TO THE ORIGINAL SPI	LL REPORT	15 - 426	
^	LAND USE PERMIT NUMBER (WATER LICENC	CE NUMBER	R (IF APPLICABLE)			
C	IOL - Commercial	Lease: Q13C301			2AM-MR	Y1325	Type "A"			
D	GEOGRAPHIC PLACE NAME O Mary River Mine S				REGION INWT	X NUNAVU	UT	RISDICTION	OR OCEAN	
Е	LATITUDE 74	40			LONGITUDE 7				30	
7000	DEGREES 71 RESPONSIBLE PARTY OR VES	MINUTES 18 SSEL NAME	SECONDS 49 RESPONSIBLE F		DEGREES 7		militoreo	St	ECONDS 38	
F	Baffinland Iron Mi	The State of the S				300, Oakville, 0	ON L6H	0C3		
G	N/A		N/A							
11	PRODUCT SPILLED Sump Water, Mair	Approx.		OGRAMS OR CL	JBIC METRI	ES U.N. NUMBER N/A				
Н	SECOND PRODUCT SPILLED (QUANTITY IN LI	TRES, KILO	OGRAMS OR CL	UBIC METRI	ES U.N. NUMBER N/A				
1	SPILL SOURCE Plastic Containme	SPILL CAUSE Under Inv	vestia	ation		AREA OF CONTAI Approx. 2		SQUARE METRES		
	FACTORS AFFECTING SPILL C	DESCRIBE ANY	_					PERTY OR EQUIPMENT		
J	Frozen Ground Co	N/A				N/A				
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS On the night shift of October 8, 2015, an incident occurred involving the release of sump water from the Maintenance Shop to a location immediately adjacent to the shop bay doors. Initial reports suggest that approximately 1000L of sump water was inadvertently discharged from a storage tote. The area of release is presently being cleaned-up. Frozen ground conditions have minimized any soil infiltration. Sampling of the sump water has been undertaken to assess sump water quality. Frozen conditions have eliminated the risk of impact to nearby water bodies; the location of the occurrence is roughly 300 metres from the nearest receiving waters. An investigation into the incident is currently underway and further details will be provided in the follow-up report.									
L	Trevor Myers	Enviro Super	rintendent	Baffir			Mary River	10000000	ELEPHONE 647-253-0596	
М	ANY ALTERNATE CONTACT Jim Millard	POSITION Enviro Manag	ger	EMPLOYE Baffin			ALTERNATE CONTACT		11 NOTE: 11 NOTE: 12	
			REPORT LIN	E USE ON	ILY					
N	RECEIVED AT SPILL LINE BY	POSITION		EMPLOYE	R		LOCATION CALLED	P	REPORT LINE NUMBER	
IN		STATION OPERATOR		L,			YELLOWKNIFE, NT	(8	867) 920-8130	
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FIRS	ST SUPPORT AGENCY			CONT	ACT TIME		REMARKS		S E G EN E GESSED	
	OND SUPPORT AGENCY			CONI	ACT TIME		REMARKS			

PAGE 1 OF ___1__



November 11, 2015

Resource Management Officer
Nunavut Field Operations
Aboriginal Affairs and Northern Development Canada
Box 100
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Justin Hack Justin.Hack@aandc-aadnc.gc.ca

Acting Manager, Major Projects Qikiqtani Inuit Association P.O. Box 219 Iqaluit, NU X0A 0H0 Justin Buller ifbuller@qui.ca

Re: Follow-up to Spill #15-428, Reported on October 12th, 2015 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On October 12, 2015, at approximately 13:30, a worker discovered that sewage was coming out of the door of the main lift station of the Milne Port Site Complex. Upon further inspection it was determined that the floats that trigger the lift stations pumps had failed to activate, causing the lift station to overflow. It is estimated that approximately 1300L of sewage was discharged to the ground surface adjacent to the lift station, impacting an area of roughly 16 m2. Soil infiltration was minimized due to the frozen ground conditions. The location of the spill was on the camp pad and is greater than 100 metres from the closest water body, which is currently frozen.

Immediate and Follow-Up Action:

The worker immediately activated the float switch to drain the tank. A vacuum truck was used to clean up the pooled sewage on the ground. The floats were fixed and the lift station was back in service shortly after the incident.

Recommendations:

Routine inspections of the sewage lines and lift stations will continue to be done in order to ensure all components of the sewage system are working as designed.

Current Status:

The floats have been fixed and the main lift station is back in service.

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:

Andrew Vermeer

Environmental Coordinator

Trevor Myers

Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Michael Anderson, Erik Madsen, Bikash Paul, Tony Woodfine, Jim Millard, Allan Knight, Nicolas Kuzyk, Lea Willemse (Baffinland),

Erik Allain, (AANDC), Manager of Licencing (NWB)



Photo 1 – Sewage Spill



Photo 2 – Sewage Spill

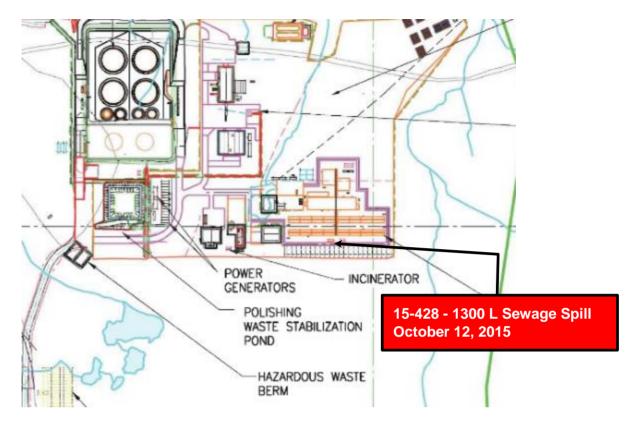


Figure 1 - Spill Location



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

										REPORT LINE USE ONLY
Α	10-13-2015			11:45	5		OR O	RIGINAL SPILL REPO	RT,	REPORT NUMBER
В	10-12-2015			13:30		ETIME	TO	O THE ORIGINAL SPILL REPORT		15 - 428
С	IOL - Commercial	Lease No.: Q13C		2AM-MRY1325 Type "A"						
D	GEOGRAPHIC PLACE NAME OF MILINE PORT Main Li		N FROM NAMED L			REGION ⊐NWT X NUNAVI	UT	☐ ADJACENT JURIS	DICTIO	N OR OCEAN
Ε	DEGI IEEG	MINUTES 53	SECONDS 02	2	DEG	REES 80		MINUTES 53		SECONDS 11
F	RESPONSIBLE PARTY OR VES Baffinland Iron Mi	2275 Mid	ldle Ro	oac	•		, Oakville, ON	N L6F	I 0C3	
G	N/A	N/A			OFFICE LOCATION					
ш	Sewage	Approx.	1300 L		AMS OR CUBIC METR		N/A			
П	SECOND PRODUCT SPILLED (I	N/A	TRES, KILO	OGR	AMS OR CUBIC METR	ES	N/A			
Ī	Main Lift Station	Float did	not ac	ctiv	rate		16 M/sq.	ATION II	SQUARE METRES	
J				ASSISTAN	NCE	REQUIRED		N/A	NS, PRO	PERTY OR ENVIRONMENT
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS On October 12, 2015, at approximately 13:30, it was discovered that sewage was coming out of the door of the main lift station of the Milne Inlet Port Site Complex. The float switch was manually activated to drain the tank immediately. A vacuum truck was used to clean up the pooled sewage on the ground and soil infiltration was minimized by frozen ground conditions. It is estimated that approximately 1300L of sewage was discharged to the ground surface adjacent to the lift station and the impacted area of roughly 16 m2. The location of the spill was on the camp pad and is greater than 100 metres from the closest water body, which is presently frozen. The investigation is ongoing and further details of the incident will be provided in a follow-up report.									
L	Trevor Myers	Enviro Superi	intendent	Baffir		nd	М	ary River, NU		TELEPHONE 647-253-0596
М	ANY ALTERNATE CONTACT Jim Millard	Enviro Manag	jer	Baffir		nd		ERNATE CONTACT ATION		902-403-1337
			REPORT LIN	E USE ON	NLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR		EMPLOYE	ER			CATION CALLED LOWKNIFE, NT		REPORT LINE NUMBER (867) 920-8130
LEAD	AGENCY DEC DCCG DG	NWT □ GN □ ILA □ INAC	NEB DTC	SIGNI	IIFICA	NCE - MINOR - MA	JOR	□ UNKNOWN F	ILE STAT	US OPEN CLOSED
AGENCY CONTACT NAME				CONT	TACT	TIME	_	REMARKS		
LEAD AGENCY				_			\dashv			
FIRST SUPPORT AGENCY SECOND SUPPORT AGENCY				+			\dashv			
	D SUPPORT AGENCY		+			\dashv				

PAGE 1 OF ___

Figure 2 – NT-NU Spill Report



November 15, 2015

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 swbathory@qia.ca

Re: Follow-up to Spill #15-435, Reported on October 17, 2015 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On October 16, 2015 at approximately 08:30, a release of untreated sewage was observed at the lift station located between the office and kitchen complexes of the Mine Site Complex. Upon investigation, the lift station float switch malfunctioned and the pumps were not activated causing approximately 500 Litres of untreated sewage to overflow onto the adjacent ground surface and surrounding camp pad. An area of approximately 10m2 was impacted. The location of the spill was greater than 200 meters from the nearest watercourse.

Immediate and Follow-Up Action:

Housing Maintenance and the Environment Department were immediately notified. The vacuum truck was used to empty the lift station and remove any pooling sewage. The pumps were shut off and the float switch was repaired.

Recommendations:

Ongoing routine inspection of the sewage lines and lift stations are required to inspect for leaks, malfunctions and potential locations of failure.

Current Status:

The lift station float switch has been repaired and is back in service. Regular inspections are conducted on the sewage lift stations and sewage lines to verify the system is working as designed.

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

Trevor Myers,

Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

Bell Barder

cc. Erik Madsen, Oliver Curran, Bernard Laflamme, Bikash Paul, Tony Woodfine, Jim Millard, Allan Knight, Nicolas Kuzyk, Lea Willemse, Andrew Vermeer, Bill Bowden (Baffinland), Scott Burgess, Erik Allain, (AANDC), Manager of Licencing (NWB)



Photo 1 – Lift Station Spill



Photo 2 - Lift Station Spill Post Clean Up

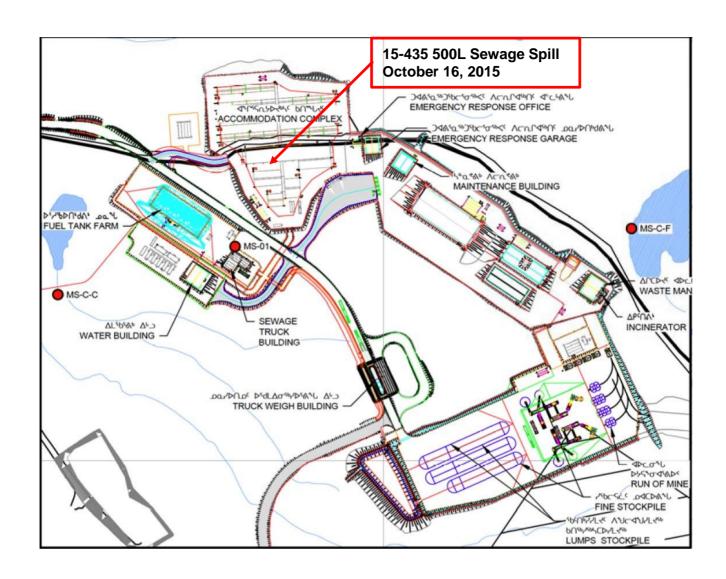


Figure 1 - Spill Location



THIRD SUPPORT AGENCY

NT-NU 24-HOUR SPILL REPORT LINE

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

140	irribiles Training		IL, GASOLINE, GI	IENIIONEO	AND OTHER HAZARDOO	O WINTERINES		EMAIL: Spills/wyov.iii.G		
_	REPORT DATE: MONTH - DAY	/_VEAR		REPORT T	INE			REPORT LINE USE ONLY		
A	October 17, 2015			07:00		X ORIGINAL SPILL REOR	EPORT,	REPORT NUMBER		
В	October 16, 2015			000URRE 08:30		TO THE ORIGINAL SP	ILL REPORT	15 . 435		
\sim	IOL - Commercia	(IF APPLICABLE) I Lease No.: Q13C	301		WATER LICENCE NUMBER 2AM-MRY1325					
D		OR DISTANCE AND DIRECTION Ct Mine Site, Baffir			REGION NWT X NUNAV	JT 🗆 ADJACENT JI	JRISDICTION	OR OCEAN		
	DEGREES 71	MINUTES 18	SECONDS 53		LONGITUDE DEGREES 79	MINUTES 1	7 s	ECONDS 01		
F	RESPONSIBLE PARTY OR VE Baffinland Iron M		RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION 2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3							
G	ANY CONTRACTOR INVOLVE N/A	D	CONTRACTOR ADDRESS OR OFFICE LOCATION N/A							
	Sewage		Approx.		OGRAMS OR CUBIC METR	U.N. NUMBER				
П	SECOND PRODUCT SPILLED N/A	(IF APPLICABLE)	N/A	TRES, KILC	GRAMS OR CUBIC METR	N/A				
I	Sewage Lift Stati	Broken fl			Approx. 1	10m2	SQUARE METRES			
J	Deep Snow, Limi		N/A			N/A		PERTY OR ENVIRONMENT		
K	station located be malfunctioned ar adjacent ground switch was repail body. The spill w The investigation report.	015 at approximate tween the office and the lift station purface. After the red. The location as estimated to be is ongoing and fur	and kitcher eumps were sewage le of the spill approxim irther detai	n compenot a vel wa was g ately 5 ils of the	olexes of the Mi ctivated causin is lowered, the p reater than 200 i00 liters and im he incident will	ne Site Comp g the sewage oump was shu meters from pacted an are be provided i	lex. The to overf ut off, ar the near ea of rou n the sp	e float switch flow onto the nd the float rest water ughly 10 m2. sill follow-up		
L	Trevor Myers	Enviro Superi	intendent	Baffin	land	Mary River		(647)253-0596		
М	James Millard	Enviro Manag		Baffin		Mary River		Ext. 6016		
			REPORT LINE	E USE ON	LY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR		EMPLOYE	R	YELLOWKNIFE, NT		REPORT LINE NUMBER (867) 920-8130		
LEAD	AGENCY DEC DCCG D	GNWT DGN DILA DINAC	□ NEB □ TC	SIGNII	FICANCE I MINOR II MA	JOR - UNKNOWN	FILE STATE	US OPEN CLOSED		
AGENCY CONTACT NAME				CONT	ACT TIME	REMARKS				
LEAD AGENCY										
FIRST SUPPORT AGENCY										
SEC	OND SUPPORT AGENCY									

PAGE 1 OF __1

Figure 2 - NT-NU Spill Report



November 20, 2015

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 Justin Buller jfbuller@qia.ca

Re: Follow-up to Spill #15-441, Reported on October 21, 2015
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

A P-50 diesel fuel spill was discovered on Tuesday, October 20 at 1500 hrs at the Milne Port P-50 Fuel Dispensing Module by the Environmental Coordinator. At the time the source and volume of the spill could not be determined. The initial spill report provided an estimated volume of 200 L; however, after further investigation, it was determined that the volume released was between 300 to 600 L covering an area of 60 m² of which all was contained with engineered secondary containment.

The location of the spill was greater than 200 m from the nearest water body.

Immediate and Follow-Up Action:

Due to frozen ground conditions, the diesel fuel released remained on top of the ground surface, penetrating to a maximum depth of 1 cm. The contaminated surface soil was removed and disposed of at the Milne Port Landfarm Facility.

In response to the incident, Baffinland Management initiated an incident investigation.

Investigation Conclusions:

The investigation pointed to the following conclusions:

Evidence supports that the spill incident occurred between Monday morning, October 19, and Tuesday afternoon, October 20. The estimated volume of P-50 diesel spilled likely ranged from 300L to 600L. The likely source of the spill was the overfilling of a fuel lube truck. The unidentified Operator was not compliant with Baffinland's spill reporting procedures.

The likely causes of the spill included inconsistencies in the SOP for the task and difficulties in the use of the Scully Control System.

Recommendations:

The investigation identified the following recommendations:

- Improvements are required in the task-specific operator training for bulk re-fueling operations, especially in regard to the fuel lube trucks.
- Review and revise existing SOP in tandem with improvements in the training program development.
- Consideration be given to installing of video surveillance cameras at fuel dispensing modules.
- Conduct training refreshers targeted towards Supervisors on the importance of timely reporting of all spills as per Baffinland's spill reporting procedures.

Current Status:

The above recommendations are currently being implemented by various departments with the support of the Environment Department and Senior Management.

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:

Lea Willemse,

Environmental Coordinator

Allan Knight

Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Erik Madsen, Oliver Curran, Bernard Laflamme, Bikash Paul, Tony Woodfine, Jim Millard, Trevor Myers,

Nicolas Kuzyk, Andrew Vermeer, Bill Bowden (Baffinland),

Scott Burgess, Erik Allain, (AANDC), Manager of Licencing (NWB)



Figure 1 - Impact of Spill Area (facing south)



Figure 2 - Impact of Spill Area (facing north)



Figure 3 – Review of Re-fueling Procedure following Clean Up



Figure 4 – Review of Re-fueling Procedure following Clean Up

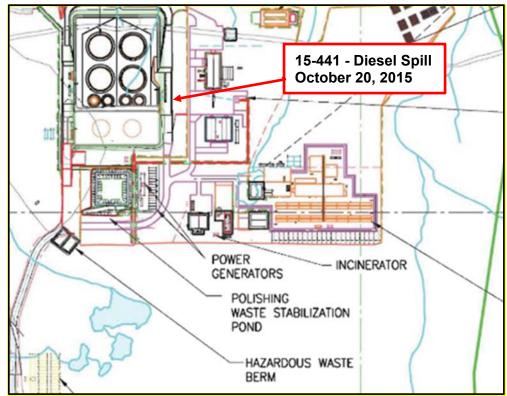


Figure 5 - Spill Location



Canada 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	October 21, 2015	- YEAR		11:00		X (ORIGINAL SPILL REP	ORT,	REPORT NUMBER	
В	October 20, 2015	– DAY – YEAR		15:00	NCETIME HRS		JPDATE # THE ORIGINAL SPILL	REPORT	15 - 441	
С	LAND USE PERMIT NUMBER (IOL - Commercial	Lease: Q13C301			2AM-MRY1	CENCE NUMBER (IF APPLICABLE) MRY1325 Type "A"			-	
D	GEOGRAPHIC PLACE NAME OF Mary River Project			IU		UNAVUT	□ ADJACENT JUR	ISDICTION	OR OCEAN	
Е	DEGREES 71		SECONDS 04	ļ [ONGITUDE DEGREES 80		MINUTES 53	S	SECONDS 09	
F	RESPONSIBLE PARTY OR VES Baffinland Iron M	ines Corp.	2275 Mid	dle Ro	-	ite 300), Oakville, O	N L6H	0C3	
G	N/A		OR OFFICE LOCATIO							
Н	PRODUCT SPILLED P-50 Arctic Diesel	Approx.	200 L	GRAMS OR CUBIC		N/A				
"	SECOND PRODUCT SPILLED ((IF APPLICABLE)	N/A	TRES, KILO	GRAMS OR CUBIC	METRES	N/A			
-	SPILL SOURCE Fuel Module		SPILL CAUSE Under Inv				Approx 20	M/sq.	SQUARE METRES	
J	RACTORS AFFECTING SPILL O	N/A	ASSISTAN	CE REQUIRED		N/A	SONS, PRO	OPERTY OR EQUIPMENT		
K	At 15:00 on October 20, 2015, a worker reported a P-50 diesel spill at the Milne Port refueling area and immediately notified the Environment Department. It is estimated that approximately 200 litres of diesel was released within the lined refueling area (engineered secondary containment) and affected an area of approximately 20 square meters. It is suspected that the spill was caused by an overfill during equipment refueling. The spill has been cleaned up however the investigation is still ongoing and further details will be provided in the follow-up report.									
L	Trevor Myers	Enviro Superi	ntendent	Baffin			cation calling fro lary River		TELEPHONE 647-253-0596	
M	ANY ALTERNATE CONTACT Jim Millard	POSITION Enviro Manag	er	EMPLOYER Baffin	-		TERNATE CONTACT Lary River CATION		Ext. 6016	
			REPORT LIN	E USE ON	LY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR		EMPLOYE	R		CATION CALLED LLOWKNIFE, NT		REPORT LINE NUMBER (867) 920-8130	
LEAD	AGENCY DEC DCCG DG		□ NEB □TC	SIGNIF	FICANCE I MINOR				US - OPEN - CLOSED	
AGE	NCY	CONTACT NAME		CONTA	ICT TIME		REMARKS			
LEAD) AGENCY									
FIRS	T SUPPORT AGENCY									
SECOND SUPPORT AGENCY										
THIR	D SUPPORT AGENCY									

PAGE 1 OF _____

Figure 6 - NT-NU Spill Report



November 24, 2015

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

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

Re: Follow-up to Spill #15-444, Reported on October 25, 2015
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On October 25, 2015 at approximately 09:00, a release of untreated sewage was discovered at the south AB lift station located between the AB and AD wings of the Mine Site Complex. Upon investigation, it was determined that a blockage on the main sewage line had formed from cold temperatures overwhelming the heat trace settings. This caused a backup of sewage at the lift station which overflowed onto the adjacent ground surface. Approximately 2000 Litres of untreated sewage overflowed onto the adjacent ground surface and surrounding camp pad. An area of approximately 50m2 was impacted. The location of the spill was greater than 150 meters from the nearest watercourse.

Immediate and Follow-Up Action:

Housing Maintenance and the Environment Department were immediately notified. The vacuum truck was used to empty the lift station and remove any pooling sewage. The heat trace settings were increased and the blockage unthawed.

Recommendations:

Ongoing routine inspection of the sewage lines and lift stations are required to inspect for leaks, malfunctions and potential locations of failure. Heat trace settings should be monitored to ensure they are sufficient.

Current Status:

The lift station is back in service and the main sewage line is working order. Regular inspections are conducted on the sewage lift stations and sewage lines to verify the system is working as designed.

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

Bill Bouder

Allan Knight,

Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Erik Madsen, Oliver Curran, Bernard Laflamme, Bikash Paul, Tony Woodfine, Jim Millard, Trevor Myers, Lea Willemse, Andrew Vermeer, Bill Bowden, Jennifer St. Paul-Butler (Baffinland), Scott Burgess, Erik Allain, (AANDC), Manager of Licencing (NWB)



Photo 1 – Lift Station Spill



Photo 2 – Lift Station Spill Post Clean Up

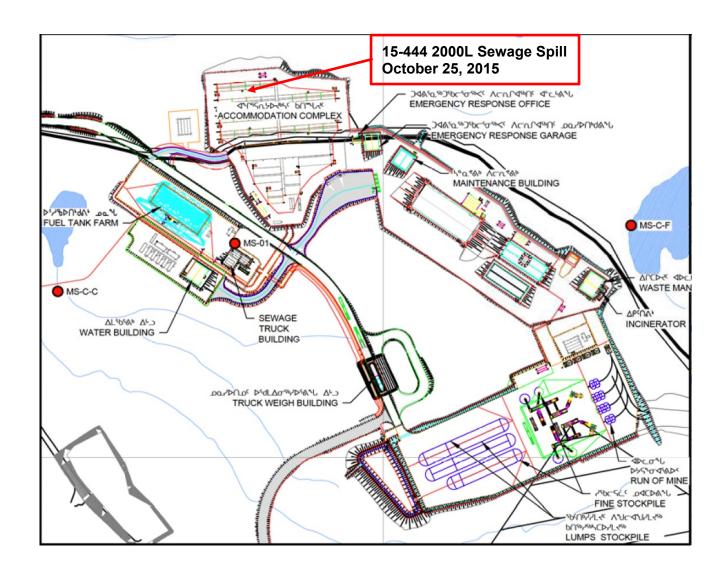


Figure 1 - Spill Location



Canada 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 - YE	AR		REPORT TI	ME	ox o	RIGINAL SPILL REPORT,				
А	October 25, 2015			09:00		OR			REPORT NUMBER		
В	October 25, 2015	AY – YEAR		unkno			PDATE # THE ORIGINAL SPILL REI	PORT	15 - 444		
	LAND USE PERMIT NUMBER (IF AF	DOLYCADI EL			WITER LICENCE NUMB						
С	IOL - Commercial Le		801		2AM-MRY132						
<u> </u>	GEOGRAPHIC PLACE NAME OR DI			2							
D	Mary River Project N			U	□ NWT X NUNA	VUT	☐ ADJACENT JURISDI	CTION	OR OCEAN		
Ε			SECONDS 55	5 D	ONGITUDE DEGREES 79		MINUTES 17	SE	CONDS 04		
F	RESPONSIBLE PARTY OR VESSEL Baffinland Iron Mine		2275 Mid	idle Roa	•		, Oakville, ON I	L6H	0C3		
G		N/A		R OFFICE LOCATION							
	PRODUCT SPILLED				GRAMS OR CUBIC MET	TRES	U.N. NUMBER				
Н	Sewage	Approx.				N/A					
11	SECOND PRODUCT SPILLED (IF AI	PPLICABLE)		TRES, KILO	GRAMS OR CUBIC MET	RES	U.N. NUMBER				
	N/A	N/A				N/A					
ı	SPILL SOURCE SPILL CA Sewage Lift Station Block			sewage	lino		Approx. 50m2		SQUARE METRES		
<u> </u>	2.00.0								PERTY OR ENVIRONMENT		
J	Deep Snow, Limited		N/A	ASSISTANG	E REQUIRED		N/A	S, PHOP	ERTY OR ENVIRONMENT		
Ĕ	ADDITIONAL INFORMATION, COMM		O CONTAIN	RECOVER OR DISPOS	EOFS		CONTAI	MINATED MATERIALS			
l	On October 25, 2015 at approximately 09:00, a release of untreated sewage was discovered at the South AB lift station located between the AB and AD wings of the Mine Site Complex. The Environment Department and Housing Maintenance were immediately notified, and the lift station pumps were shut off. A vacuum truck was called to remove the sewage from the lift station and affected area. Upon initial investigation, it is suspected that a blockage on the main sewage line is causing a backup of sewage at the lift station which overflowed onto the adjacent ground surface. The location of the spill was greater than 150 meters from the nearest water body. The spill was estimated to be approximately 2000 liters and impacted an area of roughly 50 m2. The investigation is ongoing and further details of the incident will be provided in the spill follow-up report.										
K	Environment Depart pumps were shut of affected area. Upon causing a backup of The location of the s estimated to be appropriate	tment and Housi ff. A vacuum trud initial investigat f sewage at the l spill was greater roximately 2000	en the AB ing Mainte ck was ca tion, it is s lift station r than 150 liters and	and AD enance lled to i suspect which meters I impac	wings of the were immedia remove the se ted that a bloo overflowed o from the nea ted an area of	Minately ewag ckag nto t rest f rou	e Site Complex notified, and t le from the lift: e on the main: the adjacent gr water body. Th ghly 50 m2. T	the li static sewa ounc he sp he ir	ne ift station on and age line is d surface. pill was nvestigation		
K	Environment Depart pumps were shut of affected area. Upon causing a backup of The location of the sestimated to be appris ongoing and furth	tment and Housi ff. A vacuum truc initial investigat f sewage at the l spill was greater roximately 2000 her details of the	en the AB ing Mainte ck was ca tion, it is s lift station r than 150 liters and e incident	and AD enance illed to i suspect which meters d impac will be	wings of the were immedia remove the se ted that a blod overflowed of from the nea ted an area of provided in the	Min- ately ewag ckag nto t rest f rou ne sp	e Site Complex notified, and the from the lift see on the main she adjacent grwater body. The ghly 50 m2. The political follow-up reserved.	k. The listation seware councies of the sport	ne ift station on and age line is d surface. pill was nvestigation t.		
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K L M	Environment Depart pumps were shut of affected area. Upon causing a backup of The location of the s estimated to be appr is ongoing and furth REPORTED TO SPILL LINE BY Allan Knight ANY ALTERNATE CONTACT	tment and Housi ff. A vacuum truc initial investigat f sewage at the l spill was greater roximately 2000 her details of the	en the AB ing Mainte ck was ca tion, it is s lift station r than 150 liters and e incident	and AD enance illed to i suspect which meters d impac will be	wings of the were immedia remove the se ted that a bloc overflowed of from the nea ted an area of provided in the	Minately ewag ckag nto to the special management of the special manage	e Site Complex notified, and the from the lift see on the main she adjacent grwater body. The ghly 50 m2. The political follow-up reserved.	the listatics sewarounche sport	ne ift station on and age line is d surface. pill was nvestigation t.		
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PAGE 1 OF .

Figure 2 - NT-NU Spill Report



November 24, 2015

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 #15-446, Reported on October 26, 2015 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On October 25, 2015 at 15:00, a release of untreated sewage was observed from the force main pipeline which discharges from the Milne Port Site Complex to the Waste Water Treatment Plant (WWTP). Upon initial investigation, sewage was released from a separated coupling in the pipeline intermittently when the main lift station pump was engaged and sewage was actively flowing to the WWTP. The spill is estimated to be 500L and impacted an area of 5 m². The location of the spill was greater than 250 meters from the nearest water body.

Immediate and Follow-Up Action:

Immediate repairs to the pipeline to prevent further release and subsequent removal of the frozen sewage will be completed at a later date. Access to the area is currently restricted due to the immediate risk of damaging the pipeline during excavation of the frozen sewage under the pipeline.

Recommendations:

Routine inspections of the sewage lines and lift stations will continue to ensure all components of the sewage system (lift stations and pipelines) are working as designed.

Current Status:

The separated coupling has been repaired. The pipeline will continue to be inspected as per routine procedure to ensure proper functioning of the system.

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:

Lea Willemse

Environmental Coordinator

Allan Knight

Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Erik Madsen, Oliver Curran, Bernard Laflamme, Bikash Paul, Tony Woodfine, Jim Millard, Trevor Myers, Lea Willemse, Andrew Vermeer, Bill Bowden, Jennifer St. Paul-Butler (Baffinland), Scott Burgess (AANDC), Erik Allain, (AANDC), Manager of Licencing (NWB).



Photo 1 – Sewage Spill



Photo 2 – Sewage Spill

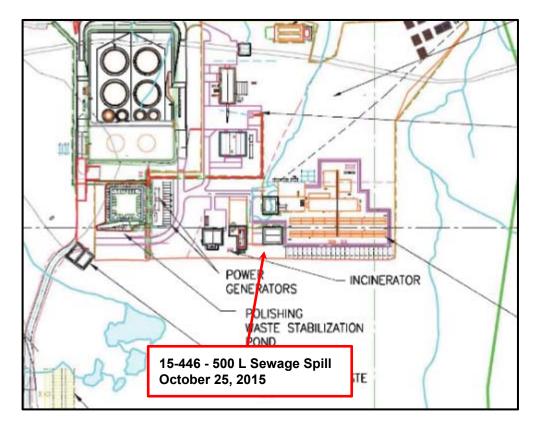


Figure 1 - Spill Location



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	10-26-2015	-YEAR		07:30	IME	CXORIGINAL SPILL REP	ORT,	REPORT NUMBER		
В	10-25-2015	- DAY - YEAR		15:00	NCETIME	TO THE ORIGINAL SPILE	L REPORT	15 - 446		
С	IOL - Commercial		301		VATER LICENCE NUMBER 2AM-MRY1325					
D	GEOGRAPHIC PLACE NAME O Mary River Projec				REGION NWT X NUNAV	JT 🗆 ADJACENT JUR	RISDICTION	OR OCEAN		
Ε	DEGREES 71	MINUTES 53	SECONDS 00		ONGITUDE DEGREES 80	MINUTES 53	s	ECONDS 21		
F	Baffinland Iron Mi				RESS OR OFFICE LOCAT ad East, Suite 3		N L6H	0C3		
G	NA		NA	ADDRESS (OR OFFICE LOCATION					
	Sewage		Appox. 5		GRAMS OR CUBIC METR	NA U.N. NUMBER				
П	SECOND PRODUCT SPILLED (IF APPLICABLE)	QUANTITY IN LIT	TRES, KILO	GRAMS OR CUBIC METR	NA U.N. NUMBER				
I	Sewer Line		Broken F	orce M	lain	5 m2	INATION IN	SQUARE METRES		
J	FACTORS AFFECTING SPILL O	R RECOVERY	N/A	ASSISTAN	CE REQUIRED	N/A	SONS, PRO	PERTY OR ENVIRONMENT		
K	On October 25, 2015 at 15:00, a release of untreated sewage was observed from the force main pipeline which discharges from the Milne Port Site Complex to the Waste Water Treatment Plant (WWTP). Upon initial investigation, sewage was released from a separated coupling in the pipeline intermittently when the main lift station pump was engaged and sewage was actively flowing to the WWTP. The spill is estimated to be 500L and impacted an area of 5 m2. Repairs to the pipeline and subsequent removal of the frozen sewage for proper disposal have been completed. The location of the spill was greater than 250 meters from the nearest water body. Further details of the incident will be provided in the spill follow up report.									
L	REPORTED TO SPILL LINE BY Allan Knight	Env. Superint	endent	EMPLOYER Baffin		Mine Site	ОМ	647-253-0596		
M	ANY ALTERNATE CONTACT Jim Millard	POSITION Env. Manager		EMPLOYER Baffin		Mine Site	•	647-253-0596		
			REPORT LIN	E USE ON	LY		<u> </u>			
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR		EMPLOYE	R	LOCATION CALLED YELLOWKNIFE, NT		REPORT LINE NUMBER (867) 920-8130		
LEAD	AGENCY DEC DCCG DG		□ NEB □TC	SIGNIF	FICANCE I MINOR I MA			US □ OPEN □ CLOSED		
AGE	NCY	CONTACT NAME		CONTA	CTTIME	REMARKS				
LEAD	AGENCY									
FIRS	T SUPPORT AGENCY									
	OND SUPPORT AGENCY									
· · · · ·	RD SUPPORT AGENCY									

PAGE 1 OF __1__

Figure 2 – NT-NU Spill Report



November 29, 2015

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 #15-449, Reported on October 30, 2015 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

At 17:30 HRS on October 30, 2015, while working on the force main around the Milne Port Camp main lift station a worker discovered that the main lift station was leaking sewage. Upon inspection, it was determined that the lift station tank was cracked causing approximately 250L of sewage to spill onto the adjacent ground, affecting an area of approximately 10 m2. The location of the spill was on the Milne Port camp pad and is greater than 100 metres from the closest water body.

Immediate and Follow-Up Action:

The worker immediately triggered the lift station pumps and drained the tank. The lift station pump floats have been lowered in the tank to prevent sewage from reaching the height of the crack.

Recommendations:

The maintenance department is considering repairing or replacing the tank.

Current Status:

Currently, consideration is being made into purchasing a new tank. The lift station will continue to be inspected as per routine procedure to ensure proper functioning of the system.

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.

Allan Knight, B.Sc.

Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Erik Madsen, Oliver Curran, Bernard Laflamme, Bikash Paul, Tony Woodfine, Jim Millard, Trevor Myers, Lea Willemse, Andrew Vermeer, Bill Bowden, Jennifer St. Paul-Butler (Baffinland), Scott Burgess (AANDC), Erik Allain, (AANDC), Manager of Licencing (NWB).



Photo 1 – Sewage Spill Outside Main Lift Station



Photo 2 – Port Site Main Lift Station

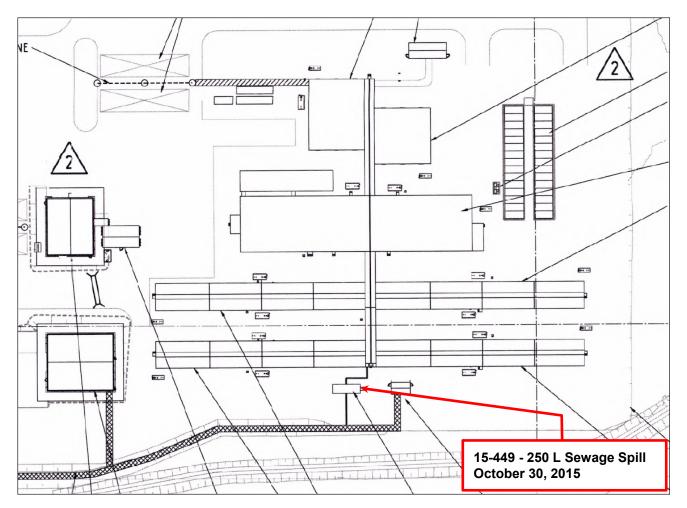


Figure 1 - Spill Location





NT-NU SPILL REPORT

IL CASOLINE CHEMICALS AND OTHER HAZARDOUG MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

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

PORTLINE LISE ONLY

									REPORT LINE USE ONLY	
Α	10-30-2015	-YEAR		18:00	TIME HRS	OF	ORIGINAL SPILL REPO	ORT,	REPORT NUMBER	
В	OCCURRENCE DATE: MONTH	- DAY - YEAR			ENCETIME HRS		UPDATE # THE ORIGINAL SPILL	REPORT	15 - 449	
С	IOL - Commercial		C301		2AM-MRY1					
D	GEOGRAPHIC PLACE NAME OF MILINE PORT Main L		ON FROM NAMED L	OCATION	REGION	NUNAVUT	□ ADJACENT JUR	ISDICTION	OR OCEAN	
Е	LATITUDE DEGREES 71	MINUTES 53	SECONDS 02	2	LONGITUDE DEGREES 80 MINUTES 53 SECONDS 11					
F	RESPONSIBLE PARTY OR VES		RESPONSIBLE	e PARTY ADDRESS OR OFFICE LOCATION ddle Road East, Suite 300, Oakville, ON L6H 0C3						
G	N/A N/A				R ADDRESS OR OFFICE LOCATION					
ы	Sewage 250 L			TRES, KIL	OGRAMS OR CUBIC	METRES	U.N. NUMBER			
Н	N/A N/A			TRES, KIL	OGRAMS OR CUBIC	METRES	U.N. NUMBER			
1					Station Tank		10 m2	INATION IN	SQUARE METRES	
J					ICE REQUIRED		N/A	ONS, PRO	PERTY OR ENVIRONMENT	
K	At 17:30 HRS on October 30, 2015, while working on the force main around the Milne Port Camp main lift station a worker discovered that the main lift station was leaking sewage. The worker immediately triggered the lift station pumps and drained the tank. Upon further inspection it was determined that the lift station tank was cracked causing approximately 250 L of sewage to spill onto the adjacent ground, affecting an area of approximately 10 m2. The lift station pump floats have been lowered in the tank to prevent sewage from reaching the height of the crack. The maintenance department is currently looking into repairing or replacing the tank. The location of the spill was on the Milne Port camp pad 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.									
L	REPORTED TO SPILL LINE BY Allan Knight	Env. Superir	ntendent	Baffi		1000	cation calling fro line Site, NU		ext. 6010	
М	ANY ALTERNATE CONTACT Jim Millard	POSITION Env. Manage	er	EMPLOY! Baffii	er nland		TERNATE CONTACT Off Site CATION	,	ALTERNATE TELEPHONE	
Г		*	REPORT LIN	E USE OI	ILY					
N	RECEIVED AT SPILL LINE BY	POSITION OPERATOR		EMPLOY	ER		CATION CALLED		REPORT LINE NUMBER	
LEAD	AGENCY DEC DCCG DC	STATION OPERATOR	C DNEB DTC	SIGN	IFICANCE MINOF		LLOWKNIFE, NT		867) 920-8130 US OPEN CLOSED	
AGE	NCY	CONTACT NAME		CON	FACT TIME		REMARKS			
LEAD	EAD AGENCY									
FIRS	FIRST SUPPORT AGENCY									
SEC	SECOND SUPPORT AGENCY									
THIR	D SUPPORT AGENCY									

PAGE 1 OF ____

Figure 2 – NT-NU Spill Report



December 9, 2015

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 Justin Buller ifbuller@qui.ca

Re: Follow-up to Spill #15-458, Reported on Nov 10th, 2015 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

At 15:00 HRS on November 9, 2015, a worker discovered that the main sewage line between the Port Site Complex (PSC) main lift station and the Milne Port wastewater treatment plant was leaking. Upon further inspection it was determined that a coupling on the sewage line had failed causing approximately 1500 litres of sewage to spill onto the adjacent ground, affecting an area of approximately 50 m2. Soil infiltration was minimized due to the frozen ground conditions. The location of the spill was on the Milne Port camp pad and is greater than 200 metres from the closest water body, which is currently frozen.

Immediate and Follow-Up Action:

The worker immediately locked out the line and notified the Environment Department. Contaminated snow and ice was removed and transported to the Milne Port PWSP.

Recommendations:

Routine inspections of the sewage lines and lift stations will continue to be done in order to ensure all components of the sewage system are working as designed. A new fused main sewage line running from the PSC's main lift station to the Milne Port wastewater treatment plant is 90% complete. The new fused sewage line has a minimal amount of joints/couplings and therefore will be much less prone to joint/coupling failure once commissioned.

Current Status:

The sewage line has been repaired and is back in service.

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:

Andrew Vermeer

Environmental Coordinator

Trevor Myers

Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Erik Madsen, Oliver Curren, Bernard Laflamme, Bikash Paul, Tony Woodfine, Jim Millard, Allan Knight, Lea Willemse, Jennifer St.Paul-Butler (Baffinland).

Erik Allain, Scott Burgess (AANDC).



Photo 1 – Sewage Spill



Photo 2 – Spill Location after Cleanup

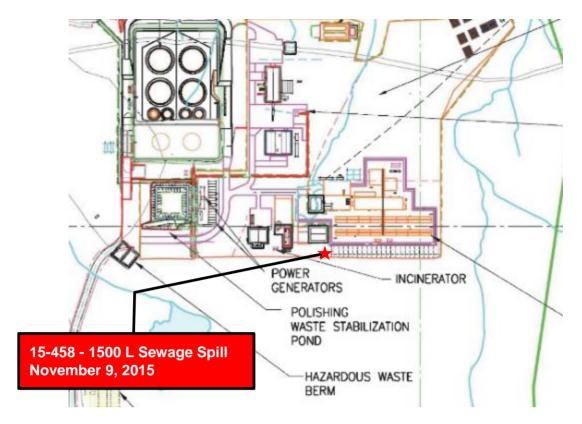


Figure 1 - Spill Location



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

									REPORT LINE USE ONLY		
Α	REPORT DATE: MONTH – DAY 11-09-2015	/-YEAR		15:15	TIME HRS	DX OR	ORIGINAL SPILL REP	ORT,	REPORT NUMBER		
В	OCCURRENCE DATE: MONTH	H – DAY – YEAF		10000000000000000000000000000000000000	ENCETIME HRS		JPDATE # THE ORIGINAL SPILI	L REPORT			
С	LAND USE PERMIT NUMBER IOL - Commercia			water licence number (if APPLICABLE) 2AM-MRY1325 Type "A"							
D	GEOGRAPHIC PLACE NAME Milne Port Main S		AND DIRECTION FROM NAMED L	OCATION	REGION	JNAVUT		NODIOTION	OD OOF AN		
	LATITUDE				LONGITUDE	JNAVUI	☐ ADJACENT JUF	RISDICTION	OR OCEAN		
E	DEGREES 71 RESPONSIBLE PARTY OR VE	MINUTES	53 SECONDS 01		DEGREES 80 DRESS OR OFFICE L	OO ATION	MINUTES 53	S	ECONDS 20		
F	Baffinland Iron M				oad East, Sui), Oakville, O	N L6H	0C3		
G	ANY CONTRACTOR INVOLVE N/A	D	CONTRACTOR.	OR ADDRESS OR OFFICE LOCATION							
	PRODUCT SPILLED Sewage		QUANTITY IN LI	ITRES, KIL	OGRAMS OR CUBIC I	METRES	U.N. NUMBER				
Н	SECOND PRODUCT SPILLED N/A	.E) QUANTITY IN LI	TRES, KIL	OGRAMS OR CUBIC I	METRES	U.N. NUMBER					
I	SPILL SOURCE Main Sewage Lin	SPILL CAUSE Failed Co	oupling	g		AREA OF CONTAM 50 m2	ination in	SOUARE METRES			
J	FACTORS AFFECTING SPILL N/A	DESCRIBE ANY	ASSISTAN	ICE REQUIRED		HAZARDS TO PERS	SONS, PRO	PERTY OR ENVIRONMENT			
K	At 15:00 HRS on November 9, 2015, a worker discovered that the main sewage line between the Milne Port Complex main lift station and sewage treatment plant was leaking. The worker immediately locked out the line and notified Environment. Upon further inspection it was determined that a coupling on the sewage line had failed causing approximately 1500 litres of sewage to spill onto the adjacent ground, affecting an area of approximately 50 m2. Frozen ground conditions have limited the amount of soil infiltration and the sewage line has been repaired. Contaminated snow and ice will be removed and transported to the Milne Port PWSP. The location of the spill was on the Milne Port camp pad and is greater than 200 metres from the closest water body, which is presently frozen. The investigation is currently ongoing and further details of the incident will be provided in the follow-up report.										
L	Trevor Myers		iro Superintendent	EMPLOY! Baffii		0.000	cation calling fr lary River, N	10000000	(647) 253-0596		
М	ANY ALTERNATE CONTACT Jim Millard	POSITIO	iro Manager	EMPLOYE Baffii		ALT	ERNATE CONTACT		(902) 403-1337		
Г	!		REPORT LIN	E USE ON	ILY	100					
N	RECEIVED AT SPILL LINE BY	POSITIO	DN	EMPLOYE	ER	LO	CATION CALLED	Î	REPORT LINE NUMBER		
IN			OPERATOR			YE	LLOWKNIFE, NT		867) 920-8130		
	*	□ ILA □ INAC □ NEB □ TC		FICANCE MINOR	☐ MAJOF		FILE STAT	US □ OPEN □ CLOSED			
AGE	AGENCY CONTACT NAME				ACT TIME		REMARKS				
LEA	LEAD AGENCY										
FIRS	FIRST SUPPORT AGENCY										
SEC	SECOND SUPPORT AGENCY										
	RD SUPPORT AGENCY										

PAGE 1 OF ____

Figure 2 – NT-NU Spill Report



December 23, 2015

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 #15-474, Reported on Nov 23rd, 2015 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On November 23, 2015 at 06:30 hrs, a worker discovered diesel fuel mixed with snow between the Kitchen and AG Wings of the Mine Site accommodation complex. The ball valve on the fuel pipe going into the Makeup Air Unit was found to be broken after drifted snow was removed. The volume of the spill was approximately 200L covering an approximate area of 20 m². The impacted layer was confined due to underlying hard snow pack and ice and is greater than 200m away from the closest body of water.

Immediate and Follow-Up Action:

Maintenance was notified immediately upon discovery and capped the line as this unit is not currently in operation. The contaminated snow/ice from the impacted area was removed for disposal in the Milne Inlet Contaminated Snow Dump, an engineered lined containment area.

Recommendations:

It is recommended that only personnel thoroughly experienced with the infrastructure of the Mine and Port Site Complexes are to clear snow in between the wings using equipment capable to safely navigate all infrastructure within the wings. Additional recommendations are being considered to address hazards and ways to mitigate said hazards within the wings of the accommodation complexes.

Current Status:

The ball valve on the fuel piping for the Air Handling Unit is capped as this unit is not currently in operation. The contaminated snow and ice has been transported to the Milne Inlet Contaminated Snow Dump. Only personnel thoroughly experienced are clearing snow in between the wings using smaller skid steer type equipment which is best capable to safely navigate within the wings.

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:

Bill Bowden

Environmental Coordinator

Sell Bander

Reviewed by:

Allan Knight

Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Erik Madsen, Oliver Curran, Bernard Laflamme, Tony Woodfine, Jim Millard, Bill Bowden, Andrew Vermeer, Lea Willemse, Jennifer St. Paul-Butler (Baffinland),

Erik Allain, Scott Burgess (AANDC).



Photo 1 - Diesel Spill



Photo 2 - Spill Location



Photo 3 - Spill Clean up



Photo 4 - Spill Clean up

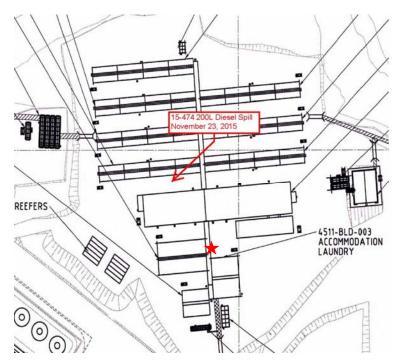


Figure 1 - Spill Location



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

										REPORT LINE USE ONLY
Α	11-23-2015	-YEAR		18:00		3	OR OR	RIGINAL SPILL REP	ORT,	REPORT NUMBER
В	OCCURRENCE DATE: MONTH 11-23-2015	- DAY - YEAR		06:30	HRS		TOT	PDATE # THE ORIGINAL SPILL	REPORT	15 - 474
С	LAND USE PERMIT NUMBER (IOL - Commercial		C301			LICENCE NUMBER				
D	Mary River Project				REC	GION WT X NUNAV	'UT	☐ ADJACENT JUR	ISDICTION	OR OCEAN
Е	DEGREES 71	MINUTES 18	SECONDS 5	2	LONGITUDE DEGREES 79 MINUTES 17 SECONDS 02					ECONDS 02
F	RESPONSIBLE PARTY OR VES Baffinland Iron Mi				PARTY ADDRESS OR OFFICE LOCATION Idle Road East, Suite 300, Oakville, ON L6H 0C3					
G						ESS OR OFFICE LOCATION				
ш	PRODUCT SPILLED Diesel	Approx 2			S OR CUBIC METR	RES	U.N. NUMBER N/A			
Н	SECOND PRODUCT SPILLED (QUANTITY IN L	ITRES, KIL	OGRAM	S OR CUBIC METR	RES	U.N. NUMBER N/A			
1	Supply Line	Failed B	all Valv	ve			approx 20		SOUARE METRES	
J	FACTORS AFFECTING SPILL OR RECOVERY N/A N/A				NCE REC	DUIRED		N/A	ONS, PRO	PERTY OR ENVIRONMENT
K	On November 23, 2015 at 06:30 hrs, a worker discovered diesel fuel mixed with snow between the Kitchen and AG Wings of the Mine Site accommodation complex. The ball valve on the fuel pipe going into the Makeup Air Unit was found to be broken after drifted snow was removed. Maintenance was notified immediately upon discovery and capped the line as this unit is not currently in operation. The area of the spill is approximately 20 m2. The diesel is mixed in with a thin layer of snow within the impacted area. This layer is confined due to underlying hard snow pack and ice. A plan is being developed to remove product and contaminated snow/ice from the area for disposal in the Milne Inlet Contaminated Snow Dump, a engineered lined containment area. Completed details of this incident and cleanup will be provided in the follow-up report within 30 days.									
L	REPORTED TO SPILL LINE BY Allan Knight	Enviro Supe	erintendent	Baffi		ĺ	2334200	ation calling fro	20000	(647) 253-0596
М	ANY ALTERNATE CONTACT Jim Millard	POSITION Enviro Man	ager	Baffin		ı		RNATE CONTACT Ff.Site	1	(902) 403-1337
Г			REPORT LIN	NE USE OI	NLY		-			
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	ı	EMPLOY	ER			ATION CALLED	1	REPORT LINE NUMBER 867) 920-8130
LEAD	AGENCY DEC DCCG DC	ANNAL S MARKET O MIGH. IN COST	200 A SASSASS N A 44	SIGN	IIFICANC	E MINOR MA		2 1000000000000000000000000000000000000		US OPEN CLOSED
AGE	NCY	CONTACT NAME		CON	TACT TIN	IE	F	REMARKS		
LEA	EAD AGENCY									
	IRST SUPPORT AGENCY						_			
	SECOND SUPPORT AGENCY THIRD SUPPORT AGENCY						+			
				1						

PAGE 1 OF ___

Figure 2 – NT-NU Spill Report

December 28, 2015

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 #15-483, Reported on Nov 28th, 2015 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On November 28, 2015, at 14:30 hrs, an operator was clearing snow in a Hazardous Waste engineered, lined containment berm that was completely buried in over 1 metre of hard packed snow. The task involved removing snow and items in the berm. As the operator was removing the snow, a pallet of hydraulic oil drums under the snow was caught by the corner of the cutting edge on the bucket, slicing open several drums and causing a spill of about 450 litres.

Immediate and Follow-Up Action:

The operator and spotter ceased work and notified the supervisor. Workers began building a small snow/ice berm to prevent the flow and contain it to a relatively small area. The contaminated snow/ice was packaged in overpack drums, transferred to the Milne Port Landfarm.

Recommendations:

All workers are to ensure that materials stored in berms are arranged inside the berm, squared off and not just randomly deposited. This will assist in the removal of snow to prevent high levels of melt in the spring.

Current Status:

Crews have been notified and cleanup of berms is scheduled, extra care and manual assistance will be required when available to organize the contents of the berms.

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.

Kind Regards,

Allan Knight, B.Sc.

alla Kight

Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Erik Madsen, Oliver Curran, Bernard Laflamme, Tony Woodfine, Bikash Paul, Jim Millard, Bill Bowden, Andrew Vermeer, Lea Willemse, Jennifer St. Paul-Butler (Baffinland), Erik Allain, Scott Burgess (AANDC).



Photo 1 – Hydraulic Oil Spill



Photo 2 - Spill Clean Up



Photo 3 - Spill Clean up

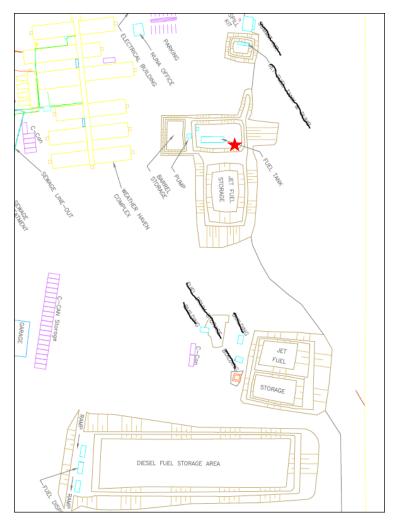


Figure 1 - Spill Location



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

										REPORT LINE USE ONLY
Α	11-29-2015	-YEAR		14:30		s	OR OR	RIGINAL SPILL REP	ORT,	REPORT NUMBER
В	OCCURRENCE DATE: MONTH	– DAY – YEAR		14:30				PDATE # HE ORIGINAL SPILL	REPORT	15 - 483
С	IOL - Commercial		3C301			RLICENCE NUMBER M-MRY1325				
D	GEOGRAPHIC PLACE NAME OF MARY River Project					GION NWT X NUNAV	UT	☐ ADJACENT JUR	ISDICTION	OR OCEAN
Е	DEGREES 71	MINUTES 19	SECONDS 3	5	LONGI	70	21	MINUTES 22	s	ECONDS 19
F	RESPONSIBLE PARTY OR VES Baffinland Iron Mi			EPARTY ADDRESS OR OFFICE LOCATION ddle Road East, Suite 300, Oakville, ON L6H 0C3						
G	N/A N/A				OR OF	FICE LOCATION				
ш	PRODUCT SPILLED Hydraulic Oil	450 litre		OGRAN	MS OR CUBIC METRI		U.N. NUMBER N/A			
Н	SECOND PRODUCT SPILLED (N/A	ITRES, KIL	OGRAN	MS OR CUBIC METRI	0.000	u.n. number N/A			
1	SPILL SOURCE SPILL CAUS 170L Drums Hit by				er			AREA OF CONTAMI 5 m2	INATION IN	SOUARE METRES
J	FACTORS AFFECTING SPILL O	N/A	ASSISTA	NCE RE	OUIRED	- 1	N/A	SONS, PRO	PERTY OR ENVIRONMENT	
K	On November 28, 2015, at 14:30 hrs, an operator was clearing snow in a Hazardous Waste containment berm that was completely buried in over 1 metre of hard packed snow. The task involved removing snow and items in the berm. As the operator was removing the snow, a pallet of hydraulic oil drums under the snow was caught by the corner of the cutting edge on the bucket, slicing open several drums and causing a spill of about 450 litres. Completed details of this incident will be provided in the follow up report within 30 days.									
L	REPORTED TO SPILL LINE BY Allan Knight	Enviro Sup	erintendent	Baffi		d	2336990	ation calling fro	100000	(647) 253-0596
М	ANY ALTERNATE CONTACT Jim Millard	POSITION Enviro Man	ager	Baffi		d		RNATE CONTACT FSite		(902) 403-1337
		*	REPORT LIN	NE USE O	NLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	3	EMPLOY	ER.			OWKNIFE, NT		REPORT LINE NUMBER (867) 920-8130
LEAD	AGENCY DEC DCCG DG	WALLEY OF MARK IN THE	TANK A SYSTEM P. S. SY	SIGN	NIFICAN	CE MINOR MA	W5000 10		FILE STAT	US □ OPEN □ CLOSED
AGE	NCY	CONTACT NAME		CON	TACT TI	ME	В	REMARKS		
LEAD	EAD AGENCY									
	IRST SUPPORT AGENCY									
	ECOND SUPPORT AGENCY HIRD SUPPORT AGENCY									
	D COLL OILL FOLKOI									

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January 14, 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
Stephen Bathory <u>SWBathory@qia.ca</u>

Re: Follow-up to Spill #15-498, Reported on December 15th, 2015 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On December 15, 2015, at approximately 09:35, while completing routine daily inspections of sewer lines and lift stations, a worker discovered that sewage flowing from of the door of the main lift station of the Milne Port Site Complex. Upon further inspection it was determined that the floats that trigger the lift stations pumps had failed to activate causing the lift station to overflow releasing approximately 1,500 L of sewage to the ground surface adjacent to the lift station, impacting an area of roughly 10 m². Due to the frozen ground conditions, soil infiltration was negligible. The location of the spill was on the camp pad and is greater than 100 metres from the closest water body, which is currently frozen.

Immediate and Follow-Up Action:

The worker attempted to trigger the lift station pumps. When the pumps failed to engage the sewage vacuum truck was called to bring lift station sewage levels down. After sewage levels were brought down, the pumps engaged and continued to pump the sewage from the lift station. The floats were fixed and the lift station was back in service shortly after the incident. The sewage vacuum truck was also use to complete clean-up of pooled sewage around the lift station.

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:

Lea Willemse

The floats have been fixed and the main lift station is back in service.

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:

Lea Willemse James Millard

Environmental Coordinator Environmental Manager

Attach: Photos, Map, NT-NU Spill Report

cc. Erik Madsen, Oliver Curran, Bernard Laflamme, Bikash Paul, Tony Woodfine, Allan Knight, Jennifer

St.Paul-Butler (Baffinland)

Erik Allain, Scott Burgess (AANDC); Justin Buller (QIA)



Photo 1 – Sewage Spill



Photo 2 – Sewage Spill

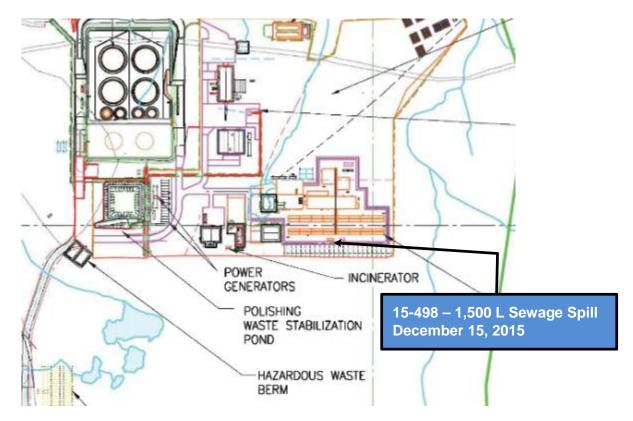


Figure 1 - Spill Location



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	12-15-2015	-YEAR		10:30	HRS		CORIGINAL SPILL RE	PORT,	REPORT NUMBER	
В	12-15-2015	- DAY - YEAR		370,307,30	HRS		TO THE ORIGINAL SPI	LL REPORT		
С	IOL - Commercial		301	d is			Type "A"			
D	GEOGRAPHIC PLACE NAME OF MILINE PORT Main Li		ON FROM NAMED	LOCATION	REGION NWT	X NUNAV	UT 🗆 ADJACENT JU	RISDICTION	OR OCEAN	
Е	DEGREES 71	MINUTES 53	SECONDS 0	2	LONGITUDE DEGREES	80	MINUTES 53	si	ECONDS 11	
F	Baffinland Iron Mi				PARTY ADDRESS OR OFFICE LOCATION ddle Road East, Suite 300, Oakville, ON L6H 0C3					
G	N/A		N/A	ADDRESS	OR OFFICE	LOCATION				
ш	Raw Sewage		1500 L	LITRES, KIL	OGRAMS OR	CUBIC METR	N/A		3	
H	SECOND PRODUCT SPILLED (F APPLICABLE)	N/A	LITRES, KIL	OGRAMS OR	CUBIC METR	N/A			
1	SPILL SOURCE Main Lift Station Pump FACTORS AFFECTING SPILL OR RECOVERY DESCRIBE			ilure			10 m2	MINATION IN	SOUARE METRES	
J	FACTORS AFFECTING SPILL OR RECOVERY Spill Adjacent to Infrastructure Additional information, comments, actions proposed			Y ASSISTAN	ICE REQUIR	ED	N/A	RSONS, PROF	PERTY OR ENVIRONMENT	
K	sewage lines, a we attempted to trigg truck was called to pumps engaged a was determined the ground, affecting camp pad and is g small area. Clean	er the lift station o bring lift station nd continued to nat the lift station an area of appro preater than 100	pumps. We need to be not	then the levels of sewage lure research of m2. 1 e close	e pump down. A e from t sulted in the loca st water	s failed fter sew he lift st n a spill ation of t body.	to engage the age levels wer ation. Upon fu of sewage onto he spill was on	sewage re broug rther in o the ad n the Mi	vacuum ght down the spection it ljacent Ine Port	
L	REPORTED TO SPILL LINE BY Allan Knight	Env. Superin	tendent	Baffin	nland		Mine Site	4-262	ext. 6010	
M	ANY ALTERNATE CONTACT Jim Millard	POSITION Env. Manage	er.	Baffin	nland		Mine Site	,	LTERNATE TELEPHONE	
			REPORT LI	NE USE OF	ILY .					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR		EMPLOY	R		LOCATION CALLED YELLOWKNIFE, NT		REPORT LINE NUMBER 867) 920-8130	
LEAD	AGENCY DEC DCCG DG	NWT DGN DILA DINA	C DNEB DTC	SIGN	FICANCE	MINOR - M/	JOR - UNKNOWN	FILE STATE	US □ OPEN □ CLOSED	
AGE	NCY C	CONTACT NAME		CONT	TACT TIME		REMARKS			
LEAD	AGENCY									
FIRS	T SUPPORT AGENCY									
SECOND SUPPORT AGENCY										
THIR	D SUPPORT AGENCY									

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Figure 2 – NT-NU Spill Report