

APPENDIX E.8.4 INITIAL AND FOLLOW-UP SPILL REPORTS (PART 1 OF 4)



February 17, 2018

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

Re: Follow-up to Spill #18-016
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On January 18, 2018 at 06:30 hrs a vacuum truck operator was approaching the wastewater treatment plant (WWTP) at the Mine Site and observed liquid leaking from a vent line on the plant. It was determined that the equalization (EQ) storage tank was full and sewage had spilled over into the exhaust fan line. An investigation determined that a float level switch malfunctioned and did not action the pump which moves waste to the aeration tank from the EQ tank causing the backup and overflow out of the fan vent. Approximately 200L of sewage was released to the WWTP pad, impacting an area of approximately 15m². The location was >100m to the nearest water course which is currently frozen.

Immediate and Follow-Up Action:

On arrival the operator placed a hose on the vent line to prevent any further spillage and notified supervision and the WWTP operator. A vacuum truck was then used to pump down the level of waste in the EQ tank. Once the pumping system malfunction was determined by the WWTP operator, the operator replaced the float level switch and the system was brought back into normal operation.

Recommendations:

Continued routine inspections of system and pumping system.

Current Status:

The wastewater treatment plant is currently operational with the float switch and pump functioning as designed.

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

Prepared by: Reviewed by:

Dominic Ritgen Connor Devereaux

Environmental Coordinator Environmental Superintendent

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

cc. Todd Burlingame, Sylvain Proulx, Tim Sewell, William Bowden, Gerald Rogers, Francois Gaudreau (Baffinland), Stephen Bathory (QIA), Erik Allain, Sarah Forte (INAC).



Photo 1. Overflow spill on ground surrounding WWTP.



Photo 2. Fan vent discharge location.



Photo 3. Surrounding WWTP pad after site clean up.



Figure 1. Map of spill location





OIL GASOLINE CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

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

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PAGE 1 OF ____

Figure 2. Baffinland NT NU spill report



February 20, 2018

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

Re: Follow-up to Spill #18-020, Reported on January 21, 2018
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

At 03:30 hrs on January 21st, 2018, kitchen staff noticed the high level fault light was on at the Weatherhaven grey water lift station. Upon initial investigation, it was determined that a coupling had failed causing the discharge pipe to separate inside the lift station building. Approximately 400L of grey water was released into the lift station building, migrating out under the base, impacting an area of 10 m². The location of the spill was confined to the Weatherhaven Complex Pad. The spill is >200m from Camp Lake, which is ice covered.

Immediate and Follow-Up Action:

All influent sources to the lift station were immediately shut off. Grey water released inside the building and surrounding camp pad was sucked up using a vac truck and taken to the Polishing Waste Stabilization Pond. The pipe and fittings were replaced before the lift station was put back into service.

Recommendations:

Continued inspections of the piping and lift stations to be completed to ensure all components are functioning as designed. Provide additional support under connection points on horizontal lines to reduce stress at the coupling.

Current Status:

The Weatherhaven lift station is currently operational and routine inspections are ongoing.

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

Prepared By:

Reviewed by:

Ben Widdowson

Environmental Coordinator

Benjamin Widdeweson

Connor Devereaux

Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Todd Burlingame, Sylvain Proulx, Gerald Rogers, Francois Gaudreau, Tim Sewell, William Bowden (Baffinland), Stephen Bathory (QIA), Erik Allain, Sarah Forte (INAC)



Photo 1. Overflow spill on ground outside Weatherhaven lift station



Photo 2. Spill clean up inside Weatherhaven lift station



Photo 3. Spill Clean up outside Weatherhaven lift station



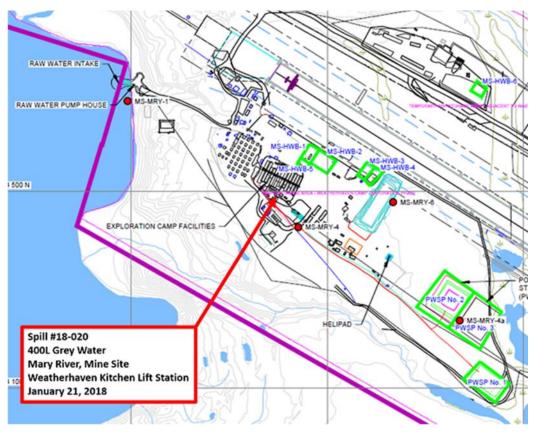


Figure 1 - Map of spill location





OIL GASOLINE CHEMICALS AND OTHER HAZARDOUS MATERIAL

NT-NU 24-HOUR SPILL REPORT LINE

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

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Figure 2 - NT-NU Spill report



February 20, 2018

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

Re: Follow-up to Spill #18-022, Reported on January 22, 2018

Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On January 21, 2018 at 12:30 hrs, Site Services Fixed Plant workers noticed raw sewage coming out of the bottom of the main lift station door at the Port Site Complex. Upon initial investigation, it was determined the flotation switch to turn on the pump had failed to trigger, causing the main tank to overflow. Approximately 150L of sewage was released to the adjacent camp pad ground surface, impacting approximately 5 m² area. This location is greater than >100 m to the nearest water course which is currently frozen.

Immediate and Follow-Up Action:

The pumps were immediately put into manual mode to pump down the level in the lift station. The contaminated snow was collected and deposited in the Polishing Waste Stabilization Pond. The floatation switch was cleaned and tested before the lift station was put back into service.

Recommendations:

Continued daily lift station inspections of the system. Lift Station floats are to be checked weekly to ensure no build up of sewage on the float. System will be pump tested to confirm the system is functioning properly.

Current Status:

The lift station is currently back in operation and inspected regularly.

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

Prepared By: Reviewed by:

Benjamin Widdewern Come Don't

Ben Widdowson Connor Devereaux
Environmental Coordinator Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Todd Burlingame, Sylvain Proulx, Gerald Rogers, Francois Gaudreau, Tim Sewell, William Bowden (Baffinland), Stephen Bathory (QIA), Erik Allain, Sarah Forte (INAC)



Photo 1. Overflow spill on ground outside PSC lift station



Photo 2. Spill clean up outside PSC lift station





Figure 1 – Map of spill location



AGENCY			CON	AUT TIME		Talana inc			
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Tim Sewell	Head of H				LO	CATION		6016	
Connor Devereaux	Env. Super		Baffi	nland	M	Mary River		416 364 8820 ALTERNATE TELEPHON	
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Raw Sewage	Approx.	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES Approx.150 L			N/A				
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Figure 2 – NT-NU Spill report

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2275 Upper Middle Road East, Suite 300 | Oakville, ON, Canada L6H 0C3 Main: 416.364.8820 | Fax: 416.364.0193 | www.baffinland.com



March 07, 2018

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

Re: Follow-up to Spill #18-037, Reported on February 7, 2018 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On February 7, 2018 at 09:00 hrs, while conducting inspections of the MSC lift stations, a housing maintainer observed water adjacent to the South AA lift station. Upon initial investigation, it was determined that the lift station pumps had failed to activate, due to the tank floats inside becoming entangled causing the tank to overflow. Approximately 225L of sewage was released to the adjacent ground surface, impacting an area of 14 m² contained to the camp pad. The spill location is greater than 100 m to the nearest water body which is currently frozen and non-fish bearing.

Immediate and Follow-Up Action:

The lift station was manually pumped down to prevent further overflow. The contaminated snow was collected and deposited in an engineered lined containment facility. The inner floats were evaluated and restored to working order before the lift station was put back into service.

Recommendations:

Continued daily lift station inspections of the system. Lift Station floats are to be checked during each inspection to ensure they are not entangled.

Current Status:

The lift station is currently back in operation and inspected regularly.

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

Prepared By:

Reviewed by:

Bryan Lukeman

Environmental Coordinator

William Bowden

Bell Barder

Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Todd Burlingame, Sylvain Proulx, Gerald Rogers, Francois Gaudreau, Tim Sewell, Connor Devereaux (Baffinland), Stephen Bathory (QIA), Erik Allain, Ian Parsons(INAC)



Photo 1. Overflow spill on ground outside MSC AA South lift station



Photo 2. Spill cleaned up outside MSC AA South lift station



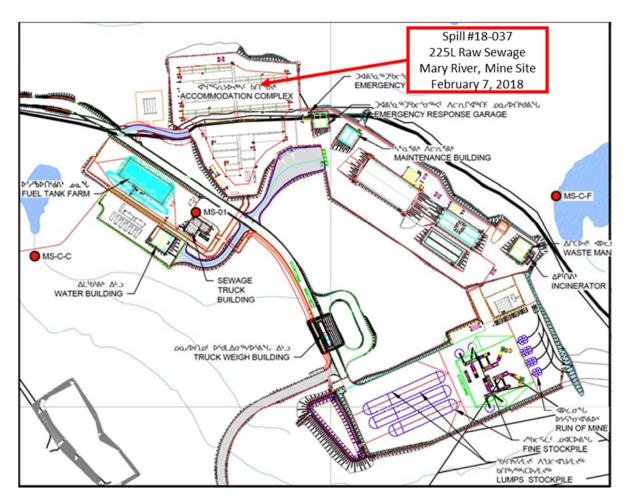


Figure 1 - Map of spill location







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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	02-07-2010			0900		OR	ORIGINAL SPILL REPORT, R UPDATE # THE ORIGINAL SPILL REPORT		REPORT NUMBER
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Н	SECOND PRODUCT SPILLED N/A	(IF APPLICABLE)	QUANTITY IN I	LITRES, KILO	GRAMS OR CUBIC I	METRES	U.N. NUMBER N/A		
I	SPILL SOURCE Lift Station		SPILL CAUSE Float Fa	ilure			AREA OF CONTAM		SQUARE METRES
J	FACTORS AFFECTING SPILL	OR RECOVERY	DESCRIBE AN	CRIBE ANY ASSISTANCE REQUIRED			HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A		
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L	William Bowden	Env. Super	rintendent	Baffin			ary River		416 364 8820 ALTERNATE TELEPHONE
М	Tim Sewell	Head of HS	14-7	Baffir		LOC	CATION		ext. 6016
			REPORT LI						
Ν	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATO)R	EMPLOYE	R	-	CATION CALLED LOWKNIFE, NT		REPORT LINE NUMBER 867) 920-8130
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Figure 2 – NT-NU Spill report

2275 Upper Middle Road East, Suite 300 | Oakville, ON, Canada L6H 0C3 Main: 416.364.8820 | Fax: 416.364.0193 | www.baffinland.com



March 11, 2018

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

Re: Follow-up to Spill #18-040, Reported on February 9, 2018 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On February 9, 2018 at 11:30 hrs, while conducting inspections of the PSC lift stations, a housing maintainer observed frozen water outside the BB wing north lift station. Upon initial investigation, it was determined that there was a blockage in the discharge line to the main lift station, resulting in the lift station to overflow. Approximately 2m³ of sewage was released to the adjacent camp pad ground surface, impacting an approximate area of 24 m². This spill location is greater than 100 m to the nearest water course which is currently frozen.

Immediate and Follow-Up Action:

The lift station was immediately emptied by vacuum truck to prevent further overflow. The contaminated snow was collected and deposited in an engineered lined containment facility to the extent possible. The discharge line was thawed, removing the blockage before the lift station was put back into service.

Recommendations:

Relocate existing warning light to outside the lift station to reduce response time to address possible upset conditions. Additional insulation will be installed at the elbow joint of the discharge line which has proven to be prone to freezing. Continued daily lift station inspections of the system.

Current Status:

The lift station is currently back in operation and inspected regularly.

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

Prepared By:

Ben Widdowson

Environmental Coordinator

Benjamin Widdeweson

Attach: Photos, Map, NT-NU Spill Report

Reviewed by:

Bull Border

William Bowden

Environmental Superintendent

cc. Todd Burlingame, Sylvain Proulx, Gerald Rogers, Francois Gaudreau, Tim Sewell, Connor Devereaux (Baffinland), Stephen Bathory (QIA), Erik Allain, Ian Parsons (INAC)



Photo 1. Overflow spill on ground outside PSC BB North lift station



Photo 2. Spill clean up outside PSC BB North lift station





Figure 1 – 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
Δ	REPORT DATE: MONTH - DAY -	YEAR		REPORT		iXc	RIGINAL SPILL REPO	RT.	
$\boldsymbol{\Lambda}$	02-10-18			11:30	OR				REPORT NUMBER
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G	ANY CONTRACTOR INVOLVED N/A		CONTRACTOR N/A	RADDRESS	OR OFFICE LOCATION	l			
	PRODUCT SPILLED		QUANTITY IN I	LITRES, KILO	OGRAMS OR CUBIC MI	ETRES	U.N. NUMBER		
1.1	Raw Sewage		Approx.	2000L			N/A		
Н	SECOND PRODUCT SPILLED (IF	APPLICABLE)		LITRES, KILO	OGRAMS OR CUBIC MI	ETRES	U.N. NUMBER		
	N/A		N/A				N/A		
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PAGE 1 OF _____

Figure 2 - NT-NU Spill report

2275 Upper Middle Road East, Suite 300 | Oakville, ON, Canada L6H 0C3 Main: 416.364.8820 | Fax: 416.364.0193 | www.baffinland.com



March 14, 2018

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

Re: Follow-up to Spill #18-045, Reported on February 14, 2018
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On February 14, 2018 at approximately 06:30, a fire was reported beside the Nuna shop in proximity to the Mine Site Weatherhaven complex. It was discovered that two light vehicles, one pick up, one cube van, had caught fire. The ignition source is unknown. The Mine Rescue Team was dispatched to extinguish the fire, which took approximately one hour. As a result, there was a significant amount of fire impacted water that was produced, which immediately froze to the adjacent pad where the pick ups were parked due to extreme cold conditions. Approximately 10m3 of fire impacted water was produced, confined to the pad. Constructed berms and extreme temperatures mitigated the migration of the water. This spill is >160m to the nearest water course (which is currently frozen).

Immediate and Follow-Up Action:

After the fire was extinguished, the scene was cordoned off and HSE investigated. The ignition source is still unknown. The scene was released and both pick up trucks were moved to the MRT training ground at KM 98 Laydown. Debris from the trucks and fire and impacted fire ice/snow was scrapped up using an excavator and moved to the landfarm at the Port for storage. Debris still remains to be separated from the contaminated snow which will be processed at Port engineered lined contaminated snow containment facility upon the summer Oily Water Processing Program

Recommendations:

Environment department continues to work with the Mine Rescue Team to ensure fire impacted water is contained and disposed of properly during and after a fire at all Project sites.

Current Status:

Impacted Fire ice/snow remains in the landfarm at Milne Port. MRT will use the trucks for training purposes.

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

Prepared by:

Reviewed by:

Ben Widdowson

Benjamin Widdewern

Environmental Coordinator

William Bowden

Bell Bander

Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Todd Burlingame, Sylvain Proulx, Gerald Rogers, Francois Gaudreau, Tim Sewell, Connor Devereaux (Baffinland), Stephen Bathory (QIA), Erik Allain, Ian Parsons (INAC)



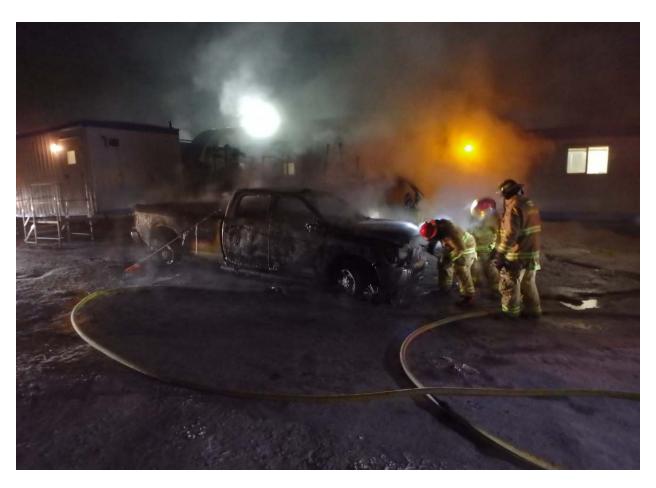


Photo 1 – Trucks Being Extinguished by MRT Personnel





Photo 2 - Impacted ice/snow being scrapped up by excavator



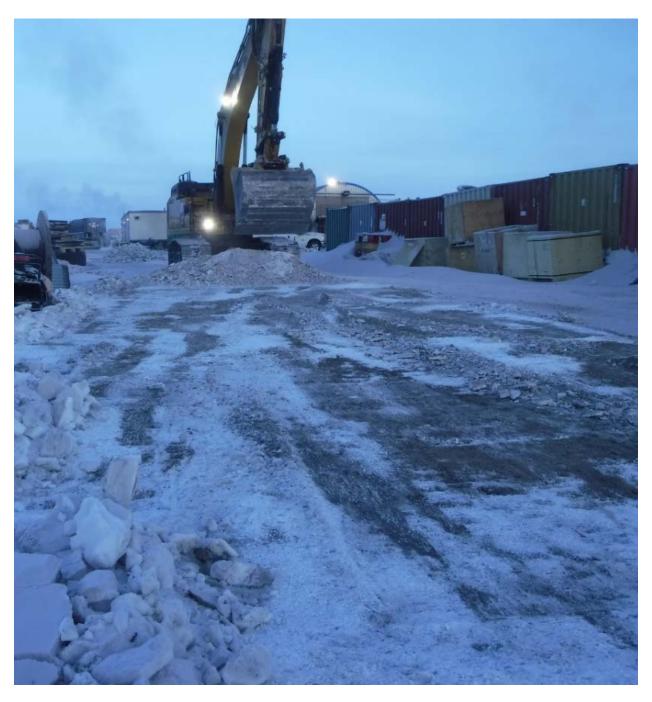


Photo 3 - Impacted ice/snow being scrapped up by excavator

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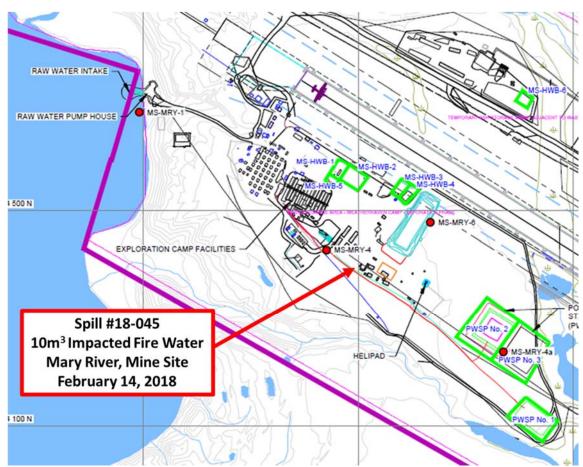


Figure 1 - Map of spill location









NT-NU 24-HOUR SPILL REPORT LINE

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

									REPORT LINE USE ONLY	
A	REPORT DATE: MONTH - DAY 02-15-18	- YEAR			20:00		OR OR	PRIGINAL SPILL REPORT,	REPORT NUMBER	
В	OCCURRENCE DATE: MONTH 02-14-18						PDATE # THE ORIGINAL SPILL REPORT	18 - 045		
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THIR	D SUPPORT AGENCY									

PAGE 1 OF ___

Figure 2 - NT-NU Spill report



March 22, 2018

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

Re: Follow-up to Spill #18-051, Reported on February 22, 2018 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On February 22, 2018 at approximately 07:50 hrs, while conducting inspections of the MSC lift stations, a housing maintainer observed frozen water outside the AD wing north lift station. Upon initial investigation, it was determined that the lift station had overflowed. The lift station was immediately emptied by vacuum truck to prevent further overflow. Approximately 200L of sewage was released to the adjacent camp pad ground surface, impacting an approximate area of 15m². This lift station is emptied via vacuum truck and the increased influent between loads caused the lift station to overflow. This spill is >100 m to the nearest water course (which is currently frozen).

Immediate and Follow-Up Action:

The lift station was immediately emptied by vacuum truck to prevent further overflow. The contaminated snow was collected and deposited in an engineered lined containment facility to the extent possible. Increased visits by vacuum truck is occurring to ensure no further overflow occurs.

Recommendations:

Baffinland has recommended more frequent checks and vacuum truck operating so that raw sewage levels stay below the emergency overflow levels of the holding tank.

Current Status:

The lift station is currently back in operation and inspected regularly.

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

Prepared By:

Reviewed by:

Bryan Lukeman

Environmental Coordinator

Connor Devereaux

Environmental Superintendent

Attach: Map, Photos, and Initial NT-NU Spill Report

cc. Todd Burlingame, Sylvain Proulx, Gerald Rogers, Francois Gaudreau, Tim Sewell, William Bowden (Baffinland) Stephen Bathory (QIA), Erik Allain, Ian Parsons (INAC)



Photo 1: Lift station and camp pad following clean up



Figure 1 – Map of spill location



DIL 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

PAGE 1 OF

REPORT LINE USE ONLY REPORT DATE: MONTH - DAY - YEAR REPORT TIME XORIGINAL SPILL REPORT, 02-24-2018 20:45 REPORT NUMBER OCCURRENCE DATE: MONTH- DAY - YEAR OCCURRENCE TIME JPDATE # 18 051 В TO THE ORIGINAL SPILL REPORT 02-22-2018 10:30 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 X NUNAVUT TWNT D ADJACENT JURISDICTION OR OCEAN LATITUDE LONGITUDE GREES 79 DEGREES 71 MINUTES 18 SECONDS 04 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 PRODUCT SPILLED QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES UN NUMBER Raw Sewage Approx. 200L N/A SECOND PRODUCT SPILLED (IF APPLICABLE) QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES IN NUMBER N/A N/A N/A AREA OF CONTAMINATION IN SQUARE METRES Lift Station Influent to lift station FACTORS AFFECTING SPILL OR RECOVERY DESCRIBE ANY ASSISTANCE REQUIRED HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT Congested area, snow and ice N/A N/A ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS On February 22, 2018 at approximately 07:50 hrs, while conducting inspections of the MSC lift stations, a housing maintainer observed frozen water outside the AD wing north lift station. Upon initial investigation, it was determined that the lift station had overflowed. The lift station was immediately emptied by vacuum truck to prevent further overflow. Approximately 200L of sewage was released to the adjacent camp pad ground surface, impacting an approximate area of 15m2. This lift station is emptied via vacuum truck and the increased influent between loads caused the lift station to overflow. Increased visits by vacuum truck is occurring to ensure no further overflow occurs. This spill is >100 m to the nearest water course (which is currently frozen). The investigation is ongoing and further details will be provided in the follow-up report. This spill is being reported as required by the conditions of NWB Water License no. 2AM-MRY1325, Part H, item 9 (b) pursuant to subsection 12(3) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act. EMPLOYER LOCATION CALLING FROM TELEPHONE REPORTED TO SPILL LINE BY POSITION Baffinland Connor Devereaux Env. Superintendent Mary River 416 364 8820 ANY ALTERNATE CONTACT POSITION EMPLOYER ALTERNATE CONTACT ALTERNATE TELEPHONE Head of HSE ext. 6016 Tim Sewell Baffinland REPORT LINE USE ONLY POSITION LOCATION CALLED REPORT LINE NUMBER RECEIVED AT SPILL LINE BY **EMPLOYER** STATION OPERATOR YELLOWKNIFE, NT (867) 920-8130 LEAD AGENCY DEC DOCG DIGNWT DIGN DILA DINAC DINEB DITC SIGNIFICANCE - MINOR - MAJOR - UNKNOWN FILE STATUS DOPEN DICLOSED AGENCY CONTACT NAME CONTACT TIME REMARKS LEAD AGENCY FIRST SUPPORT AGENCY SECOND SUPPORT AGENCY THIRD SUPPORT AGENCY

Figure 2 - NT-NU Spill report



March 23, 2018

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

Re: Follow-up to Spill #18-050, Reported on February 24, 2018

Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On February 23, 2018 at approximately 16:30 hrs, while conducting routine inspections of the MSC lift stations, a housing maintainer observed frozen water outside the AA wing south lift station. Upon initial investigation, it was determined that there was a blockage in the discharge line to the main lift station, resulting in the lift station overfilling. Approximately 150L of sewage was released to the adjacent camp pad ground surface, impacting an approximate area of 10m². This spill is located greater than 100 m to the nearest water course, which is currently frozen.

Immediate and Follow-Up Action:

The lift station was immediately emptied by a vacuum truck to prevent further overflow. The contaminated snow was collected and deposited in an engineered lined containment facility. Additional insulation was added to the discharge line, and the heat trace has been tested to confirm it is in good working condition.

Recommendations:

Investigate the cause of the frozen discharge line and develop a remedy to prevent the line from freezing again. Continue daily lift station inspections of the system.

Current Status:

The lift station is currently operational with regular daily inspections.

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

Prepared By: Reviewed by:

Bryan Lukeman Connor Devereaux

Environmental Coordinator Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Todd Burlingame, Sylvain Proulx, Gerald Rogers, Francois Gaudreau, Tim Sewell, William Bowden (Baffinland), Stephen Bathory (QIA), Erik Allain, Ian Parsons (INAC)



Photo 1. Spill location before clean-up



Photo 2. Lift station and camp pad following clean-up



Figure 1 – Map of spill location



NT-NU 24-HOUR SPILL REPORT LINE

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

Α	·							REPORT LINE USE ONLY	
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Figure 2 – NT-NU Spill report



March 25, 2018

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

Re: Follow-up to Spill #18-052, Reported on February 25, 2018
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On February 25, 2018 at approximately 04:50 hrs, an operator was filling the rear compartment of the fuel tanker (FLT-004) when the operator noticed fuel coming down the back of the tanker. The compartment has a safe fill level of 12,000L but overflowed at 8,132L. Approximately 200L of diesel fuel was released to the ground surface within the refueling area which is a lined engineered containment berm, impacting an approximate area of 20m2. This spill is located greater than 100 m to the nearest water course, which is currently frozen.

Immediate and Follow-Up Action:

The operator immediately shut off the fuel pump, closed the valves and laid down spill pads to contain the spill. The contaminated material was removed and properly disposed of in the landfarm. New material was put down and leveled to return the lined refueling area cover substrate back to its original state. It was determined that belly valve had closed without being actuated during the offload procedure which gave the operator a false indication that the tank was empty.

Recommendations:

Moving forward operators will check the compartments after each offload process and at the beginning of each shift when equipment is being handed off during shift change. New fuel level indicators will be installed on the tanker and a railing is to be installed on the tanker to eliminate the use of fall arrest harnesses and improve access to compartments during refueling checks.

Current Status:

The refueling and transportation of fuel continues, compartment checks are being completed and no further incidents have occurred.

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

Prepared By:

Reviewed by:

Dominic Ritgen

Environmental Coordinator

Connor Devereaux

Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Todd Burlingame, Sylvain Proulx, Gerald Rogers, Francois Gaudreau, Tim Sewell, William Bowden (Baffinland), Stephen Bathory (QIA), Erik Allain, Ian Parsons (INAC)



Photo 1. Spill location before clean-up



Photo 2. Spill location following clean-up



Figure 1 – Map of spill location



OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

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

CEDORT LINE LISE ONLY

									REPORT LINE USE ONLY	
Α	02-26-2018		07:00		1.0	XORIGINAL SPILL REPORT, OR		REPORT NUMBER		
В	OCCURRENCE DATE: MONTH - D 02-25-2018		8	04:50	TO		UPDATE # O THE ORIGINAL SPILL REPORT		18 - 052	
С	LAND USE PERMIT NUMBER (IF APPLICABLE) IOL - Commercial Lease: Q13C301			100000			ype "A"			
D	GEOGRAPHIC PLACE NAME OF I Mary River Mine Sit						☐ ADJACENT JURISD	ICTION	OR OCEAN	
Ε	LATITUDE DEGREES 71 MINUTES 53 SECONDS			8 DEGREES 80 MINUTES 53				SE	CONDS 34	
F	RESPONSIBLE PARTY OR VESSE Baffinland Iron Min	7.77 STATE OF THE		RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION 2275 Middle Road East, Suite 300, Oakville, ON L6H					0C3	
G	N/A		N/A	ADDRESS	OR OFFICE LOC	ATION				
Н	PRODUCT SPILLED Arctic Diesel		Approx.		OGRAMS OR CU	BIC METRES	N/A			
П	SECOND PRODUCT SPILLED (IF N/A	APPLICABLE)	N/A	ITRES, KILO	GRAMS OR CU	BIC METRES	N/A			
1	SPILL SOURCE SPILL CAUSE Fuel tanker Unknown			n			20m2	AREA OF CONTAMINATION IN SQUARE METRE: 20m2		
J	FACTORS AFFECTING SPILL OR Congested area, sn		N/A	/ ASSISTAN	CE REQUIRED		HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A			
K	fuel tanker (FLT-00- compartment has a off the fuel pump, o of diesel fuel was re containment berm, and properly dispo- (which is currently follow-up report. The 2AM-MRY1325, Par Surface Rights Trib	safe fill level of losed the valve eleased to the g impacting an a sed of in the la frozen). The im his spill is being t H, item 9 (b)	of 12,000L bes and laid ground surf approximate and farm. The vestigation greported a	down s face wi e area e spill is ong as requ	rflowed a spill pads thin the roof 20m2. To occurred oing and nired by the	t 8,132L to cont efueling The con >100 m further ne cond	The operator in tain the spill. Ap g area which is a staminated mate to the nearest v details will be p litions of NWB V	nme prox a line rial v vater rovid Vater	diately shut imately 200L ed engineered vas removed course ded in the r License no.	
L	REPORTED TO SPILL LINE BY	POSITION Env. Superin	ntendent Baff		\$10 m		Mary River		TELEPHONE 416 364 8820	
M	ANY ALTERNATE CONTACT Tim Sewell	POSITION Head of HSE		EMPLOYE Baffir	R		ALTERNATE CONTACT	A	LTERNATE TELEPHONE ext. 6016	
_	<u> </u>	1	REPORT LIN	IF USE ON	IV	- 1				
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	ner on rea	EMPLOYE		- 1	OCATION CALLED		REPORT LINE NUMBER 967) 920-8130	
LEAD	AGENCY DEC DCCG DGNV	WT DGN DILA DINA	C NEB TC	SIGNI	FICANCE I MIN	NOR - MAJ	OR DUNKNOWN FIL	E STATU	IS □ OPEN □ CLOSED	
AGENCY CONTACT NAME		11114	CONTACT TIME		REMARKS					
LEAD	AGENCY									
FIRS	T SUPPORT AGENCY									
SEC	OND SUPPORT AGENCY									
THIR	D SUPPORT AGENCY									

PAGE 1 OF 1

Figure 2 – NT-NU Spill report



March 28, 2018

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

Come Dung

Connor Devereaux

Re: Follow-up to Spill #18-062, Reported on February 27, 2018 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On February 27, 2018 at approximately 06:40 hrs, while conducting inspections of the MSC lift stations, a housing maintainer observed frozen water outside the AE wing south lift station. Upon initial investigation, it was determined that the lift station had overflowed. The lift station was immediately emptied by vacuum truck to prevent further overflow. Approximately 200L of sewage was released to the adjacent camp pad ground surface, impacting an approximate area of 30m². A frost fighter was brought in to heat and thaw the ice blockage in the discharge line and have the system brought back into service. This spill is >100 m to the nearest water course (which is currently frozen).

Immediate and Follow-Up Action:

The lift station was immediately emptied by vacuum truck to prevent further overflow and the ice blockage in the line was removed. The contaminated snow was collected and deposited in an engineered lined containment facility.

Recommendations:

Investigate potential causes of the frozen discharge line and develop a remedy to prevent the line from freezing again. Continue daily lift station inspections of the system.

Current Status:

The lift station is currently operational with regular daily inspections.

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

Prepared By: Reviewed by:

Bryan Lukeman

Environmental Coordinator Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Todd Burlingame, Sylvain Proulx, Gerald Rogers, Francois Gaudreau, Tim Sewell, William Bowden (Baffinland) Stephen Bathory (QIA), Erik Allain, Ian Parsons (INAC)



Photo 1. Spill location before clean-up



Photo 2. Lift station and camp pad following clean-up



Figure 1 – Map of spill location



UL CACOLINE CUENICALE AND OTHER HAZARROUG MATERIAL

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 02-27-2018			19:00		X	ORIGINAL SPILL REPORT,		DEDORT NUMBER
- 1	OCCURRENCE DATE: MONTH	I_DAY_YEAR			OCCURRENCE TIME		I JPDATE #		REPORT NUMBER
В	02-27-2018	September 2017 Septem		06:40		то	THE ORIGINAL SPILL	REPORT	18 - 062
С		LAND USE PERMIT NUMBER (IF APPLICABLE)			WATER LICENCE NU		and the same		
	IOL - Commercia	no termentenantenantenanten 1962 arannotes 2001an		OCATION	2AM-MRY13	325 ly	pe "A"		
D	Mary River Mine				□NWT XN	UNAVUT	☐ ADJACENT JURIS	SDICTION	OR OCEAN
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G	ANY CONTRACTOR INVOLVED N/A	D	CONTRACTOR A	ADDRESS	OR OFFICE LOCATION	NC			
	PRODUCT SPILLED				OGRAMS OR CUBIC	METRES	U.N. NUMBER		
Н	Raw Sewage	JE JERUJA JEJE	Approx.				N/A		
* *	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A		N/A	ITRES, KILO	OGRAMS OR CUBIC	METRES	U.N. NUMBER N/A		
1	SPILL SOURCE		SPILL CAUSE		■ XNHYDAXSSUST		AREA OF CONTAMIN	IATION IN	SQUARE METRES
ı	Lift Station FACTORS AFFECTING SPILL	Discharg				30m2 HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT			
J	Congested area,		N/A	ASSISTAN	ICE REQUIRED		N/A		
On February 27, 2018 at approximately 06:40 hrs, while conducting inspections of the MSC lift stations, a housing maintainer observed frozen water outside the AE wing south lift station. Upon initial investigation, it was determined that the lift station had overflowed. The lift station was immediately emptied by vacuum truck to prevent further overflow. Approximately 200L of sewage was released to the adjacent camp pad ground surface, impacting an approximate area of 30m2. A frost fighter was brought in to heat and thaw the ice blockage in the discharge line and have the system brought back into service. This spill is >100 m to the nearest water course (which is currently frozen). The investigation is ongoing and further details will be provided in the follow-up report. This spill is being reported as required by the conditions of NWB Water License no. 2AM-MRY1325, Part H, item 9 (b) pursuant to subsection 12(3) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act.									
L	REPORTED TO SPILL LINE BY	991 C. 500700 N.C. COCKER B.	ntendent	EMPLOYE Baffir		0.000	CATION CALLING FRO Tary River	20000	TELEPHONE 416 364 8820
М	ANY ALTERNATE CONTACT Tim Sewell	POSITION Head of HSI		EMPLOYE Baffir	R	ALT	TERNATE CONTACT		ALTERNATE TELEPHONE ext. 6016
		0.0000000000000000000000000000000000000	REPORT LIN			LO	CATION		
K.	RECEIVED AT SPILL LINE BY	POSITION	W 10 M 10	EMPLOYE			LOCATION CALLED		DEDOOT LINE NUMBER
Ν		STATION OPERATOR				YE	YELLOWKNIFE, NT		REPORT LINE NUMBER
LEAD AGENCY DEC DCCG DGNWT DGN DILA DINAC DNEB DTC				SIGNI		OR □ UNKNOWN FILE STATUS □ OPEN □ CLOSED			
AGE	NCY	CONTACT NAME		CONT	FICANCE I MINOR				867) 920-8130
LEA	D AGENCY				FICANCE IMINOR		REMARKS		867) 920-8130
FIRST SUPPORT AGENCY					MARKET TO A STATE OF THE STATE		REMARKS		867) 920-8130
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	ST SUPPORT AGENCY				MARKET TO A STATE OF THE STATE		REMARKS		867) 920-8130

PAGE 1 OF ___1

Figure 2 – NT-NU Spill report



April 15, 2018

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

Re: Follow-up to Spill #18-089, Reported on March 17, 2018
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

At 10:30 on March 16, 2018, while performing inspections of the Mine Site Complex (MSC) lift Stations, a housing maintainer observed water adjacent to the South AA lift Station. Upon initial investigation, it was identified that the lift station pumps had failed to activate due to the tank floats malfunctioning and the discharge line had plugged due to extreme winter conditions. The lift station was manually pumped down via vacuum truck to prevent further overflow and supervision notified. Approximately 200L of sewage impacted the MSC pad adjacent to the lift station, migrating over an area of approx. 10 m2. The spill is >100 m from the nearest water body which is currently frozen.

Immediate and Follow-Up Action:

The lift station was immediately emptied by a vacuum truck to prevent further overflow. The contaminated snow was collected and deposited in an engineered lined containment facility. Additional insulation was added to the discharge line, and the heat trace has been tested to confirm it is in good working condition. Further repairs were performed and are ongoing to the lift station tank after the tank integrity was called into question.

Recommendations:

Benjamin Widdewern

Repairs to the lift station tank were recommended and will be monitored along with discharge line repairs. Action further repairs, including tank replacement as required. Continue daily lift station inspections of the system.

Current Status:

The lift station repairs are ongoing and the secondary containment is checked and pumped out as required. Daily inspections continue

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

Bill Bowder

Prepared By: Reviewed by:

Ben Widdowson William Bowden

Environmental Coordinator Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. William Napier, Sylvain Proulx, Gerald Rogers, Francois Gaudreau, Tim Sewell, Connor Devereaux Megan Lord Hoyle(Baffinland), Stephen Bathory (QIA), Erik Allain, Ian Parsons (INAC)



Photo 1. Spill location before clean-up



Photo 2. Lift station and camp pad following clean-up



Figure 1 - 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 03-17-2018			10:00	IME	XORIGINAL SPILL REPORT,		REPORT NUMBER		
, ,	OCCURRENCE DATE: MONTH	_ DAY _YEAR	ΔB		NCE TIME	OR UPDATE #				
В	03-16-2018	- 1511		10:30		TO THE ORIGINAL SPIL	L REPORT	18 - 089		
С	IOL - Commercial				WATER LICENCE NUMB 2AM-MRY132	The second secon				
_	GEOGRAPHIC PLACE NAME C	OR DISTANCE AND DIRECTIO	ON FROM NAMED L		REGION	.,,,				
D	Mary River Mine	Site, Baffin Island	I, NU		□ NWT X NUNAVUT □ ADJACENT JURISDICTION OR OCEAN					
Е	LATITUDE DEGREES 79 MINUTES 13 SECONDS 43			3	DEGREES 56 MINUTES 14 SECONDS 08					
F	RESPONSIBLE PARTY OR VES Baffinland Iron M				RESS OR OFFICE LOCA	ATION 300, Oakville, O	N I 6H	0C3		
	ANY CONTRACTOR INVOLVED				OR OFFICE LOCATION	ooo, oakviiic, c	ZIV LOIT	000		
G	N/A		N/A							
	PRODUCT SPILLED Raw Sewage		Approx.		GRAMS OR CUBIC MET	res u.n.number N/A				
Н	SECOND PRODUCT SPILLED	(IF APPLICABLE)		ITRES, KILO	GRAMS OR CUBIC MET	Control of the Contro				
	N/A SPILL SOURCE		N/A SPILL CAUSE			N/A	HINIATIONLINI	SQUARE METRES		
1	Lift Station		Float Fai		ozen Line	Approx. 10) m2			
J	Snow and ice aro		N/A	' ASSISTAN	CE REQUIRED	N/A	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A			
maintainer observed water adjacent to the South AA lift Station. Upon initial investigation, two issues were identified: 1. the lift station pumps had failed to activate due to the tank floats not properly functioning; 2. discharge line plugged from frozen conditions. The lift station was manually pumped down via vacuum truck to prevent further overflow and supervision notified. Approximately 200L impacted the adjacent MSC pad to the lift station migrating over an area of approx. 10 m2. The spill is >100 m from the nearest water body which is currently frozen. The cleanup has been completed and the investigation is ongoing, further details will be provided in the follow-up report. This spill is being reported as required by the conditions of water license no. 2AM-MRY1325, Part H, item 9 (b) pursuant to subsection 12(3) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act.										
1	REPORTED TO SPILL LINE BY		EMPLOYER		LOCATION CALLING FE	20000	TELEPHONE			
L	Connor Devereau		tendent	Baffin		Mary River		647 253 0596		
M	ANY ALTERNATE CONTACT Tim Sewell	POSITION Head of HSE		EMPLOYE Baffin		ALTERNATE CONTACT LOCATION		ext. 6016		
			REPORT LIN							
N	RECEIVED AT SPILL LINE BY POSITION			EMPLOYE	R	LOCATION CALLED		REPORT LINE NUMBER		
		STATION OPERATOR				YELLOWKNIFE, NT		867) 920-8130		
_	DAGENCY DEC DCCG DC		C □ NEB □ TC		FICANCE MINOR I		FILE STATU	JS OPEN CLOSED		
-		CONTACT NAME		CONT	ACTTIME	REMARKS				
LEA	D AGENCY									
FIRS	ST SUPPORT AGENCY									
SECOND SUPPORT AGENCY										
SEC	310 331 311 71321731									

PAGE 1 OF __1__

Figure 2 – NT-NU Spill report



April 17, 2018

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

Re: Follow-up to Spill #18-098, Reported on March 19, 2018 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On March 18, 2018 at approximately 22:00 hrs, workers were alerted to an alarm at the AD north wing lift station at the Mine Site Complex (MSC). Upon initial investigation, it was determined that the lift station had overflowed due float issues which activate the alarms. The lift station was immediately emptied by vacuum truck to prevent further overflow. Approximately 300L of sewage was released to the adjacent camp pad ground surface, impacting an approximate area of 20m². This spill is >100 m to the nearest water course (which is currently frozen).

Immediate and Follow-Up Action:

The lift station was immediately emptied by a vacuum truck to prevent further overflow. The contaminated snow was collected to the extent possible and deposited in an engineered lined containment facility. Upon investigation, it was determined the float was positioned too far up the tank to trigger alarms before overflowing.

Recommendations:

Inspections of the system should examine float efficacy. Implement a more robust vacuum truck schedule to pump down the tank more often and prevent future overflow occurrences.

Current Status:

The float has been repositioned to ensure it will trigger alarms before overflowing. The lift station is currently back in operation as a holding tank and inspected regularly.

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

Prepared By: Reviewed by:

Benjamin Widdewern

Ben Widdowson Environmental Coordinator William Bowden

Bill Bander

Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. William Napier, Sylvain Proulx, Gerald Rogers, Francois Gaudreau, Tim Sewell, Connor Devereaux Megan Lord Hoyle(Baffinland), Stephen Bathory (QIA), Erik Allain, Ian Parsons (INAC)



Photo 1. Spill location before clean-up



Photo 2. Lift station and camp pad following float readjustment



Figure 1 - 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	03-19-2018			19:30		OR	RIGINAL SPILL REF	PORT,	REPORT NUMBER	
В	OCCURRENCE DATE: MONTH 03-18-2018			22:00		□ UP TO TH	PDATE # HE ORIGINAL SPIL	L REPORT	18 - 098	
С	IOL - Commercial	Lease: Q13C30	NA:		WATER LICENCE NUM 2AM-MRY13					
D	Mary River Mine				The second control of	JNAVUT	☐ ADJACENT JUF	RISDICTION	OR OCEAN	
Е	DEGREES 71	MINUTES 18	SECONDS 5	5	LONGITUDE DEGREES 79		MINUTES 17	SI	ECONDS 04	
F	RESPONSIBLE PARTY OR VES Baffinland Iron M	ines Corp.	2275 Mic	ddle Ro	pad East, Suit	te 300,	Oakville, C	ON L6H	0C3	
G	N/A		N/A		OR OFFICE LOCATION					
LJ	PRODUCT SPILLED Raw Sewage		Approx.	300L	OGRAMS OR CUBIC M		u.n. number N/A			
Н	SECOND PRODUCT SPILLED	(IF APPLICABLE)	OUANTITY IN L	ITRES, KILO	OGRAMS OR CUBIC M	7000405-000-000	u.n. number n/a			
I	SPILL SOURCE SPILL CAUSE Lift Station Overflow			v		,	AREA OF CONTAMINATION IN SQUARE METRES 20m2			
J	FACTORS AFFECTING SPILL OR RECOVERY Congested area, snow and ice N/A			NY ASSISTANCE REQUIRED			HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A SPILLED PRODUCT AND CONTAMINATED MATERIALS			
On March 18, 2018 at approximately 22:00 hrs, workers were alerted to an alarm at the AD north wing lift station. Upon initial investigation, it was determined that the lift station had overflowed. The lift station was immediately emptied by vacuum truck to prevent further overflow. Approximately 300L of sewage was released to the adjacent camp pad ground surface, impacting an approximate area of 20m2. This lift station is emptied via vacuum truck and the increased influent between loads caused the lift station to overflow. Surface works crews will increase visits by vacuum truck in an effort to ensure no further overflow occurs. This spill is >100 m to the nearest water course (which is currently frozen). The investigation is ongoing and further details will be provided in the follow-up report. This spill is being reported as required by the conditions of NWB Water License no. 2AM-MRY1325, Part H, Item 9 (b) pursuant to subsection 12(3) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act.										
L	Connor Devereau		ntendent			2000000	OCATION CALLING FROM Mary River		ELEPHONE 416 364 8820	
М	ANY ALTERNATE CONTACT Tim Sewell	POSITION Head of HSE	E	EMPLOYE Baffir		ALTERNATE CONTACT LOCATION			LTERNATE TELEPHONE ext. 6016	
Г			REPORT LIN	NE USE ON	ILY					
Ν	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR		EMPLOYE			CATION CALLED			
LEA	DAGENCY DEC DCCG DC	LEAD AGENCY DEC DCCG GNWT GN DILA DINAC DNEB DTC					OWKNIEE NT			
AGE	AGENCY CONTACT NAME			SIGNI				1	BEPORT LINE NUMBER B67) 920-8130 US OPEN CLOSED	
AGENCY CONTACT NAME LEAD AGENCY			AC NEB TC			□ MAJOR (1	867) 920-8130	
LEA		GNWT GN LA IN	IAC NEB TC		FICANCE MINOR	□ MAJOR (□ UNKNOWN	1	867) 920-8130	
			IAC NEB TC		FICANCE MINOR	□ MAJOR (□ UNKNOWN	1	867) 920-8130	
FIRS	D AGENCY		AC NEB TC		FICANCE MINOR	□ MAJOR (□ UNKNOWN	1	867) 920-8130	

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Figure 2 – NT-NU Spill report



April 18, 2018

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

Re: Follow-up to Spill #18-100, Reported on March 20, 2018 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On March 19, 2018 at approximately 09:00 hrs, during routine sewer line and lift station inspections a housing maintainer noticed sewage leaking from the gravity drain line originating at the Port Site Complex men's dry. It was determined that a Fernco coupling had separated on the gravity drain line due to expansion/contraction of the piping system from extreme temperature change. Approximately 300L of raw sewage was released to the adjacent camp pad ground surface, impacting an approximate area of 15m².

Immediate and Follow-Up Action:

Water sources were shut off to the affected wing and signs were posted restricting water use. The contaminated snow was removed, to the extent possible, and disposed of at the Polishing Waste Stabilization Pond.

Recommendations:

Continued inspections of the piping to be completed to ensure all components are functioning as designed. Provide additional structural support under connection points on horizontal lines to reduce stress at the coupling as required.

Current Status:

The repair to the coupler is currently functioning and the gravity line is in operation and inspected regularly.

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

Prepared By:

Ezra Arreak

Environmental Coordinator

William Bowden

Bill Bowder

Reviewed by:

Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. William Napier, Sylvain Proulx, Gerald Rogers, Francois Gaudreau, Tim Sewell, Megan Lorde Hoyle Connor Devereaux (Baffinland), Stephen Bathory (QIA), Erik Allain, Ian Parsons (INAC)

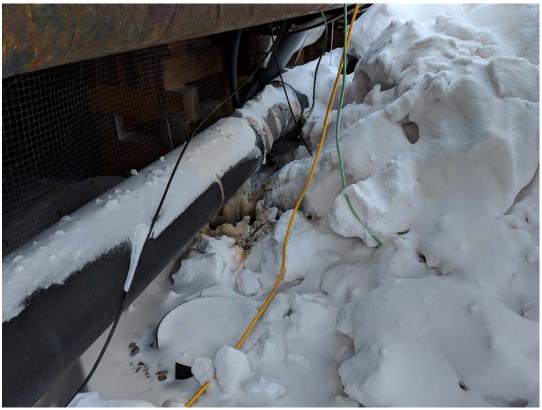


Photo 1. Spill location before clean-up



Photo 2. Gravity Drain Line after repairs completed



Figure 1. Geographical Location of the release



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	03-20-2018		09:00		OR	ORIGINAL SPILL REPORT.				
В	03-19-2018	I – DAY – YEAR		09:00	NCE TIME	□ UPDATE # TO THE ORIGINAL SPIL	O THE ORIGINAL SPILL REPORT			
С	IOL - Commercia	Lease: Q13C			WATER LICENCE NUMBER 2AM-MRY1325					
D	Mary River Mine			OCATION	REGION NWT XNUNAYU	T DADJACENT JUF	RISDICTION	LOR OCEAN		
Ε	LATITUDE DEGREES 71 MINUTES 53 SECONDS 07				LONGITUDE DEGREES 80 MINUTES 53 SECONDS 20					
F	Baffinland Iron M		2275 Mid	ldle Ro	RESS OR OFFICE LOCATI ad East, Suite 3		N L6H	0C3		
G	ANY CONTRACTOR INVOLVED N/A	D	N/A	ADDRESS (OR OFFICE LOCATION					
	PRODUCT SPILLED Raw Sewage		Approx.		OGRAMS OR CUBIC METRE	S U.N. NUMBER N/A				
Н	SECOND PRODUCT SPILLED N/A	(IF APPLICABLE)	N/A	TRES, KILO	OGRAMS OR CUBIC METRE	S U.N. NUMBER N/A				
I	SPILL SOURCE Lift station		SPILL CAUSE Line cou	pling fa	ailure	AREA OF CONTAM 15m2	AREA OF CONTAMINATION IN SQUARE METRES 15m2			
J	FACTORS AFFECTING SPILL Congested area,		N/A	ASSISTAN	CE REQUIRED	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A				
On March 19, 2018 at approximately 09:00 hrs, a worker was conducting routine sewer line inspections when it was observed that the gravity drain line from the reception wing of the Port Site Complex was leaking. Upon initial investigation, it was determined that a coupling had separated. The water was immediately shut off to the affected wing while the coupling was repaired. Approximately 300L of sewage was released to the ground surface below, impacting an approximate area of 15 m2. The contaminated snow was collected in Quatrex bags and will be properly disposed of in the snowdump. This spill is >100 m to the nearest water course (which is currently frozen). The investigation is ongoing and further details will be provided in the follow-up report. This spill is being reported as required by the conditions of NWB Water License no. 2AM-MRY1325, Part H, Item 9 (b) pursuant to subsection 12(3) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act.										
L	REPORTED TO SPILL LINE BY Connor Devereau		erintendent	Baffin		LOCATION CALLING FR Mary River	MOM	TELEPHONE 416 364 8820		
М	ANY ALTERNATE CONTACT Tim Sewell	POSITION Head of H	ISE	Baffin	land	ALTERNATE CONTACT LOCATION		ext. 6016		
Г			REPORT LIN	E USE ON	LY					
Ν	RECEIVED AT SPILL LINE BY	POSITION STATION OPERA	TOR	EMPLOYE	R	LOCATION CALLED YELLOWKNIFE, NT		REPORT LINE NUMBER		
	AGENCY DEC DCCG D			SIGNI	FICANCE I MINOR I MA			(867) 920-8130 US - OPEN - CLOSED		
AGE	NCY	CONTACT NAME		CONT	ACT TIME	REMARKS	REMARKS			
LEAI) AGENCY									
FIRS	T SUPPORT AGENCY									
SEC	OND SUPPORT AGENCY									
THIRD SUPPORT AGENCY										

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Figure 2 - NT-NU Spill report