

**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 15m<sup>2</sup>. 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:

A handwritten signature in black ink, appearing to be "DR" or similar initials.

Dominic Ritgen  
Environmental Coordinator

Reviewed by:

A handwritten signature in black ink, appearing to be "Connor Devereaux".

Connor Devereaux  
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.

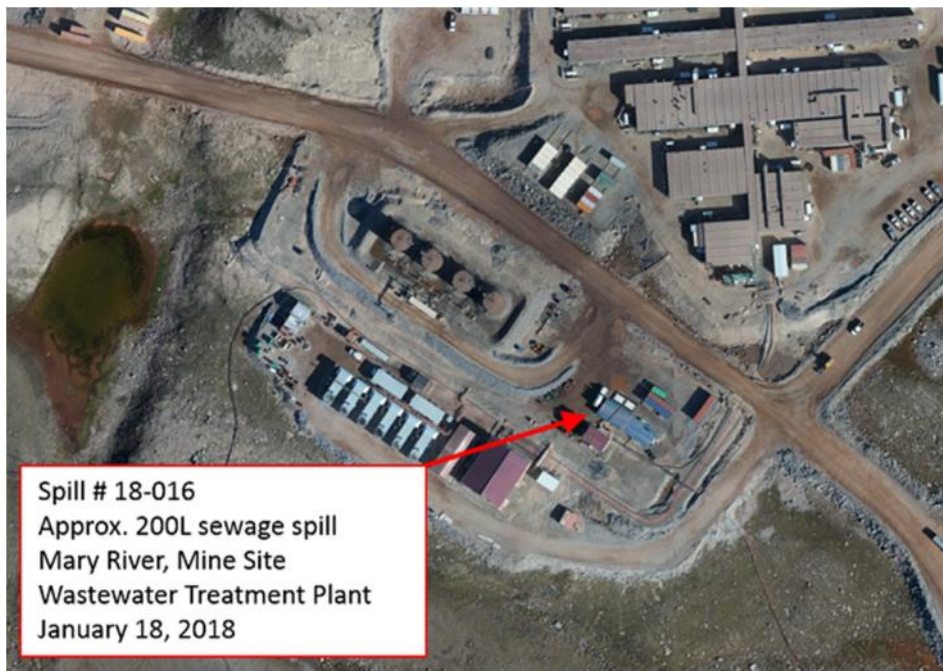


Figure 1. Map of spill location





## 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

<b>A</b>	REPORT DATE: MONTH - DAY - YEAR <b>01-18-2018</b>	REPORT TIME <b>15:00</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____
<b>B</b>	OCCURRENCE DATE: MONTH - DAY - YEAR <b>01-18-2018</b>	OCCURRENCE TIME <b>7:00</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>IOL - Commercial Lease: Q13C301</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MRY1325 Type "A"</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Mary River Milne Inlet Site, Baffin Island, NU</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
<b>E</b>	LATITUDE DEGREES <b>71</b> MINUTES <b>18</b> SECONDS <b>49</b>		LONGITUDE DEGREES <b>79</b> MINUTES <b>17</b> SECONDS <b>06</b>	
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Baffinland Iron Mines Corp.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3</b>		
<b>G</b>	ANY CONTRACTOR INVOLVED <b>NUNA</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>		
<b>H</b>	PRODUCT SPILLED <b>Raw Sewage</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>Apx. 200L</b>	U.N. NUMBER <b>N/A</b>	
	SECOND PRODUCT SPILLED (IF APPLICABLE) <b>N/A</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>N/A</b>	U.N. NUMBER <b>N/A</b>	
<b>I</b>	SPILL SOURCE <b>Wastewater treatment plant</b>	SPILL CAUSE <b>EQ tank overflow</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>15m2</b>	
<b>J</b>	FACTORS AFFECTING SPILL OR RECOVERY <b>Frozen, cold conditions</b>	DESCRIBE ANY ASSISTANCE REQUIRED <b>N/A</b>	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT <b>N/A</b>	
<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS  <b>On January 18, 2018 at 6:30 Hrs a truck operator was approaching the wastewater treatment plant (WWTP) at the Mine Site and observed liquid leaking from a vent line on the plant. The operator placed a hose on the vent line to prevent any further spillage and notified Supervision and the WWTP operator. It was determined that the EQ storage tank was full and sewage had spilled over into the exhaust fan line. Pump failure could have contributed to the overflow. Approximately 200L of sewage was released to the WWTP pad, impacting an area of approximately 15m2. The location is &gt;100m to the nearest water course which is currently frozen. An investigation is underway to determine the cause and details of the cleanup 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.</b>			
<b>L</b>	REPORTED TO SPILL LINE BY <b>William Bowden</b>	POSITION <b>Env. Superintendent</b>	EMPLOYER <b>Baffinland</b>	LOCATION CALLING FROM <b>Mary River</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Tim Sewell</b>	POSITION <b>Head of HSE</b>	EMPLOYER <b>Baffinland</b>	ALTERNATE CONTACT <b>6016</b>
REPORT LINE USE ONLY				
<b>N</b>	RECEIVED AT SPILL LINE BY STATION OPERATOR	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC		SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY	CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY				
FIRST SUPPORT AGENCY				
SECOND SUPPORT AGENCY				
THIRD SUPPORT AGENCY				

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 21<sup>st</sup>, 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 m<sup>2</sup>. 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:

A handwritten signature in black ink, appearing to read "Ben Widdowson".

Ben Widdowson  
Environmental Coordinator

Reviewed by:

A handwritten signature in black ink, appearing to read "Connor Devereaux".

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**



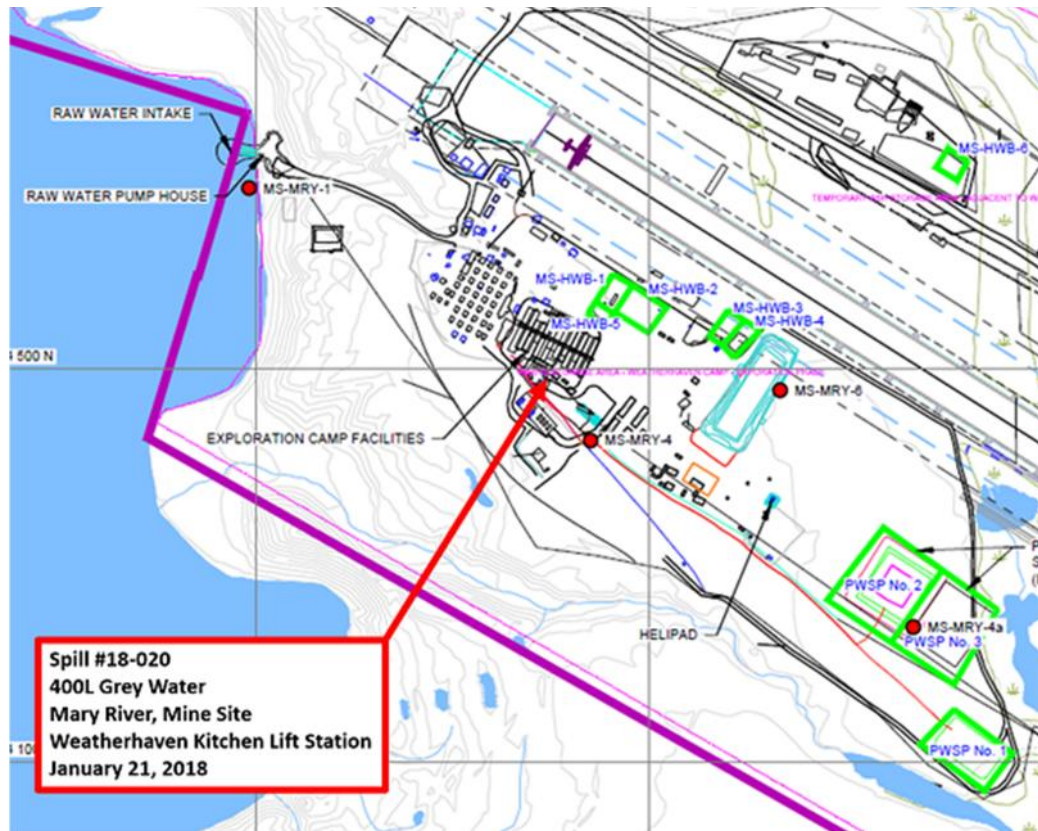


Figure 1 – Map of spill location



# 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

<b>A</b>	REPORT DATE: MONTH – DAY – YEAR <b>01-21-2018</b>	REPORT TIME <b>21:00</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER <b>18_020</b>
	OCCURRENCE DATE: MONTH – DAY – YEAR <b>01-21-2018</b>	OCCURRENCE TIME <b>3:30</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>IOL - Commercial Lease: Q13C301</b>		WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MRY1325 Type "A"</b>	
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Mary River Mine Site, Baffin Island, NU</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
<b>E</b>	LATITUDE DEGREES <b>71</b> MINUTES <b>19</b> SECONDS <b>32</b>		LONGITUDE DEGREES <b>79</b> MINUTES <b>22</b> SECONDS <b>26</b>	
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Baffinland Iron Mines Corp.</b>		RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3</b>	
<b>G</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>		CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>	
<b>H</b>	PRODUCT SPILLED <b>Grey water</b>		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>Approx. 400 L</b>	U.N. NUMBER <b>N/A</b>
	SECOND PRODUCT SPILLED (IF APPLICABLE) <b>N/A</b>		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>N/A</b>	U.N. NUMBER <b>N/A</b>
<b>I</b>	SPILL SOURCE <b>Lift station discharge line</b>		SPILL CAUSE <b>Pipe fitting failure</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>10m2</b>
<b>J</b>	FACTORS AFFECTING SPILL OR RECOVERY <b>Congested area, snow and ice</b>		DESCRIBE ANY ASSISTANCE REQUIRED <b>N/A</b>	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT <b>N/A</b>
<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS  <b>At 03:30 Hrs on January 21st, kitchen staff noticed the high level fault light was on at the Weatherhaven grey water lift station. Housing maintainers responded to the scene and sources to the lift station were immediately shut off. It was discovered that the discharge line had separated at a coupling. Grey water released inside the building and surrounding camp pad was sucked up using a vac truck. The pipe and fittings were replaced before the lift station was put back into service. Upon initial investigation, it was determined that the coupling had failed causing the discharge pipe to separate. Approximately 400 L of grey water was released into the lift station building, migrating out under the base, impacting an area of approx. 10 m2. The investigation and cleanup are 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.</b>			
<b>L</b>	REPORTED TO SPILL LINE BY <b>Connor Devereaux</b>	POSITION <b>Env. Superintendent</b>	EMPLOYER <b>Baffinland</b>	LOCATION CALLING FROM <b>Mary River</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Tim Sewell</b>	POSITION <b>Head of HSE</b>	EMPLOYER <b>Baffinland</b>	ALTERNATE CONTACT LOCATION <b>ext. 6016</b>
REPORT LINE USE ONLY				
<b>N</b>	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN	
AGENCY LEAD AGENCY FIRST SUPPORT AGENCY SECOND SUPPORT AGENCY THIRD SUPPORT AGENCY			FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED  CONTACT NAME CONTACT TIME REMARKS	

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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 floatation 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 m<sup>2</sup> 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:

A handwritten signature in black ink, appearing to read "Ben Widdowson".

Ben Widdowson  
Environmental Coordinator

Reviewed by:

A handwritten signature in black ink, appearing to read "Connor Devereaux".

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 PSC lift station**



**Photo 2. Spill clean up outside PSC lift station**





Figure 1 – 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

<b>A</b>	REPORT DATE: MONTH – DAY – YEAR <b>01-22-2018</b>	REPORT TIME <b>11:30</b>	<input type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER <b>18</b>
	<b>B</b>	OCCURRENCE DATE: MONTH – DAY – YEAR <b>01-21-2018</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>IOL - Commercial Lease: Q13C301</b>		WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MRY1325 Type "A"</b>	
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Mary River Mine Site, Baffin Island, NU</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
<b>E</b>	LATITUDE DEGREES <b>71</b> MINUTES <b>88</b> SECONDS <b>38</b>		LONGITUDE DEGREES <b>80</b> MINUTES <b>88</b> SECONDS <b>62</b>	
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Baffinland Iron Mines Corp.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3</b>		
<b>G</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>		
<b>H</b>	PRODUCT SPILLED <b>Raw Sewage</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>Approx. 150 L</b>	U.N. NUMBER <b>N/A</b>	
	SECOND PRODUCT SPILLED (IF APPLICABLE) <b>N/A</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>N/A</b>	U.N. NUMBER <b>N/A</b>	
<b>I</b>	SPILL SOURCE <b>PSC Main Lift Station</b>	SPILL CAUSE <b>Flotation switch failure</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>5 m2</b>	
<b>J</b>	FACTORS AFFECTING SPILL OR RECOVERY <b>Congested area, snow and ice</b>	DESCRIBE ANY ASSISTANCE REQUIRED <b>N/A</b>	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT <b>N/A</b>	
<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS  <p>On January 21, 2018 at 1230 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. The pumps were immediately put into manual mode to pump down the level in the lift station. Approximately 150 L of sewage was released to the adjacent camp pad ground surface, impacting approximately 5 m2 area. This location is greater than &gt;100 m to the nearest water course (which is currently frozen). The investigation of the incident is being completed and the results 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.</p>			
<b>L</b>	REPORTED TO SPILL LINE BY <b>Connor Devereaux</b>	POSITION <b>Env. Superintendent</b>	EMPLOYER <b>Baffinland</b>	LOCATION CALLING FROM <b>Mary River</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Tim Sewell</b>	POSITION <b>Head of HSE</b>	EMPLOYER <b>Baffinland</b>	ALTERNATE CONTACT <b>6016</b>
REPORT LINE USE ONLY				
<b>N</b>	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN	
			FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED	
AGENCY	CONTACT NAME		CONTACT TIME	REMARKS
LEAD AGENCY				
FIRST SUPPORT AGENCY				
SECOND SUPPORT AGENCY				
THIRD SUPPORT AGENCY				

PAGE 1 OF 1

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 07, 2018

Resource Management Officer  
Nunavut Field Operations  
Indigenous and Northern Affairs Canada  
Box 100  
Iqaluit, NU X0A 0H0  
Jonathan.mesher@aadnc-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 m<sup>2</sup> 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:

A handwritten signature in black ink, appearing to read "B. Lukeman".

Bryan Lukeman  
Environmental Coordinator

Reviewed by:

A handwritten signature in black ink, appearing to read "Bill Bowden".

William Bowden  
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**



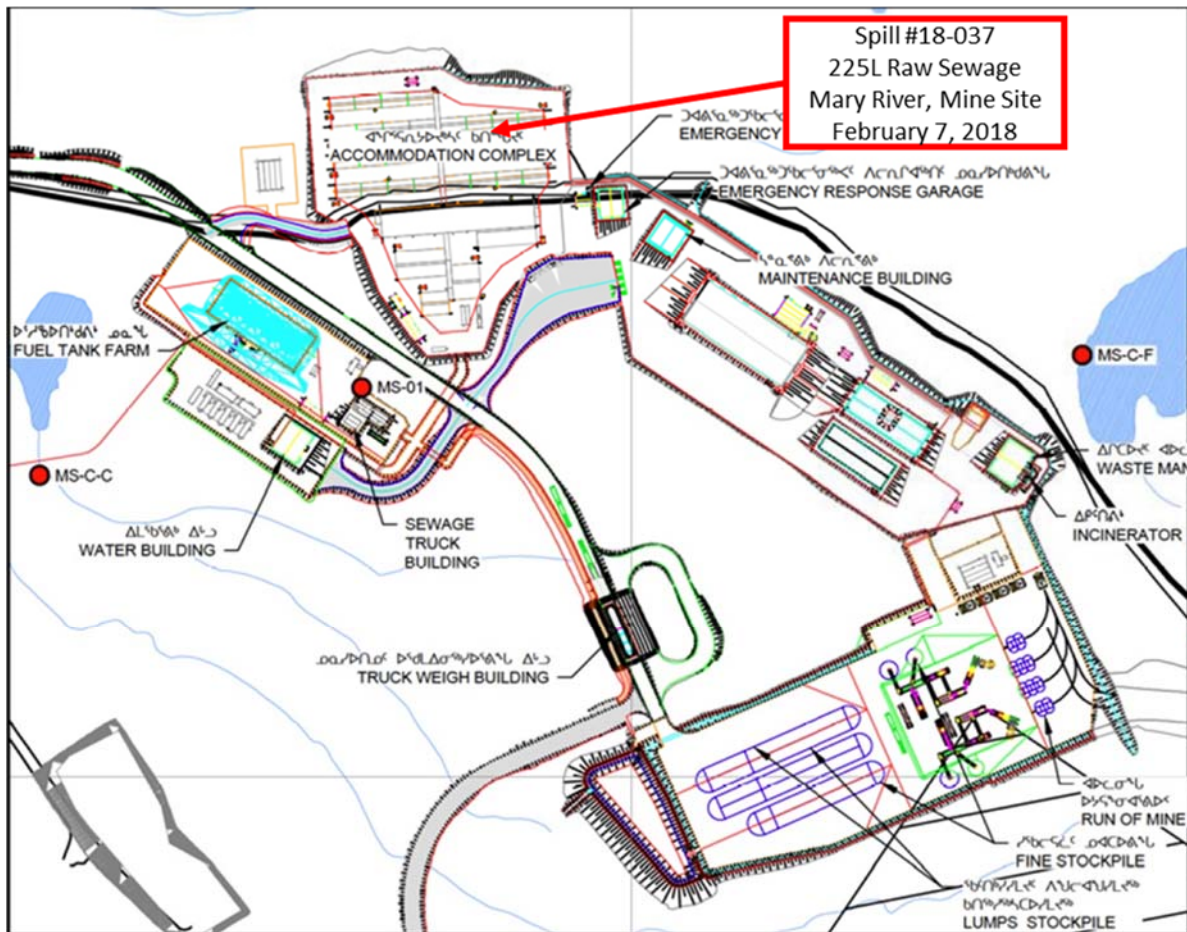


Figure 1 – Map of spill location



Canada

## NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

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FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

<b>A</b>	REPORT DATE: MONTH - DAY - YEAR <b>02-07-2018</b>	REPORT TIME <b>0900</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER <b>18</b>
<b>B</b>	OCCURRENCE DATE: MONTH - DAY - YEAR <b>02-07-2018</b>	OCCURRENCE TIME <b>Unknown</b>			
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>IOL - Commercial Lease: Q13C301</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MRY1325 Type "A"</b>			
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Mary River Mine Site, Baffin Island, NU</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>79</b> MINUTES <b>13</b> SECONDS <b>43</b>		LONGITUDE DEGREES <b>56</b> MINUTES <b>14</b> SECONDS <b>08</b>		
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Baffinland Iron Mines Corp.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3</b>			
<b>G</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>			
<b>H</b>	PRODUCT SPILLED <b>Raw Sewage</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>Approx. 225 L</b>	U.N. NUMBER <b>N/A</b>		
	SECOND PRODUCT SPILLED (IF APPLICABLE) <b>N/A</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>N/A</b>	U.N. NUMBER <b>N/A</b>		
<b>I</b>	SPILL SOURCE <b>Lift Station</b>	SPILL CAUSE <b>Float Failure</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>Approx. 14.0 m2</b>		
<b>J</b>	FACTORS AFFECTING SPILL OR RECOVERY	DESCRIBE ANY ASSISTANCE REQUIRED <b>N/A</b>	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT <b>N/A</b>		
<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS  <b>At 09:00 Hrs on February 7, 2018, while performing 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 becoming in-tangled inside. The lift station was manually pumped down to prevent further overflow and supervision notified. The floats were untangled and the lift station pumps returned to their normal functions. Approximately 225 Litres impacted the adjacent MSC pad to the lift station migrating over an area of approx. 14.0 m2. The spill is &gt;100 m from the nearest water body which is currently frozen. The investigation and cleanup are 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.</b>				
<b>L</b>	REPORTED TO SPILL LINE BY <b>William Bowden</b>	POSITION <b>Env. Superintendent</b>	EMPLOYER <b>Baffinland</b>	LOCATION CALLING FROM <b>Mary River</b>	TELEPHONE <b>416 364 8820</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Tim Sewell</b>	POSITION <b>Head of HSE</b>	EMPLOYER <b>Baffinland</b>	ALTERNATE CONTACT LOCATION	ALTERNATE TELEPHONE <b>ext. 6016</b>
REPORT LINE USE ONLY					
<b>N</b>	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

PAGE 1 OF 1

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@aadnc-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 2m<sup>3</sup> of sewage was released to the adjacent camp pad ground surface, impacting an approximate area of 24 m<sup>2</sup>. 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:

A handwritten signature in black ink, appearing to read "Benjamin Widdowson".

Ben Widdowson  
Environmental Coordinator

Reviewed by:

A handwritten signature in black ink, appearing to read "Bill Bowden".

William Bowden  
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 PSC  
BB North lift station**



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





**Figure 1 – Map of 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

<b>A</b>	REPORT DATE: MONTH – DAY – YEAR <b>02-10-18</b>		REPORT TIME <b>11:30</b>		<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER <b>18</b>	
	OCCURRENCE DATE: MONTH – DAY – YEAR <b>02-09-18</b>		OCCURRENCE TIME <b>Unknown</b>				
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>IOL - Commercial Lease: Q13C301</b>			WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MRY1325 Type "A"</b>			
	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Mary River Mine Site, Baffin Island, NU</b>			REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN			
<b>E</b>	LATITUDE DEGREES <b>71</b> MINUTES <b>53</b> SECONDS <b>02</b>		LONGITUDE DEGREES <b>80</b> MINUTES <b>53</b> SECONDS <b>15</b>				
	RESPONSIBLE PARTY OR VESSEL NAME <b>Baffinland Iron Mines Corp.</b>			RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3</b>			
<b>G</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>			CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>			
	PRODUCT SPILLED <b>Raw Sewage</b>			QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>Approx. 2000L</b>		U.N. NUMBER <b>N/A</b>	
<b>H</b>	SECOND PRODUCT SPILLED (IF APPLICABLE) <b>N/A</b>			QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>N/A</b>		U.N. NUMBER <b>N/A</b>	
	SPILL SOURCE <b>Lift Station</b>			SPILL CAUSE <b>Discharge line blockage</b>		AREA OF CONTAMINATION IN SQUARE METRES <b>24 m2</b>	
<b>J</b>	FACTORS AFFECTING SPILL OR RECOVERY <b>Congested area, snow and ice</b>			DESCRIBE ANY ASSISTANCE REQUIRED <b>N/A</b>		HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT <b>N/A</b>	
	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS  <b>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 overflowing. The lift station was immediately emptied by vacuum truck to prevent further overflow. Approximately 2000 L of sewage was released to the adjacent camp pad ground surface, impacting an approximate area of 24 m2. This spill is &gt;100 m to the nearest water course (which is currently frozen). The repairs and investigation are 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.</b>						
<b>L</b>	REPORTED TO SPILL LINE BY <b>William Bowden</b>	POSITION <b>Env. Superintendent</b>	EMPLOYER <b>Baffinland</b>	LOCATION CALLING FROM <b>Mary River</b>	TELEPHONE <b>416 364 8820</b>		
	ANY ALTERNATE CONTACT <b>Tim Sewell</b>	POSITION <b>Head of HSE</b>	EMPLOYER <b>Baffinland</b>	ALTERNATE CONTACT LOCATION	ALTERNATE TELEPHONE <b>6016</b>		
REPORT LINE USE ONLY							
<b>N</b>	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130		
	LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED	
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS			
LEAD AGENCY							
FIRST SUPPORT AGENCY							
SECOND SUPPORT AGENCY							
THIRD SUPPORT AGENCY							

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@aadnc-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 10m<sup>3</sup> 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:

A handwritten signature in black ink, appearing to read "Benjamin Widdowson".

Ben Widdowson  
Environmental Coordinator

Reviewed by:

A handwritten signature in black ink, appearing to read "Bill Bowden".

William Bowden  
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**



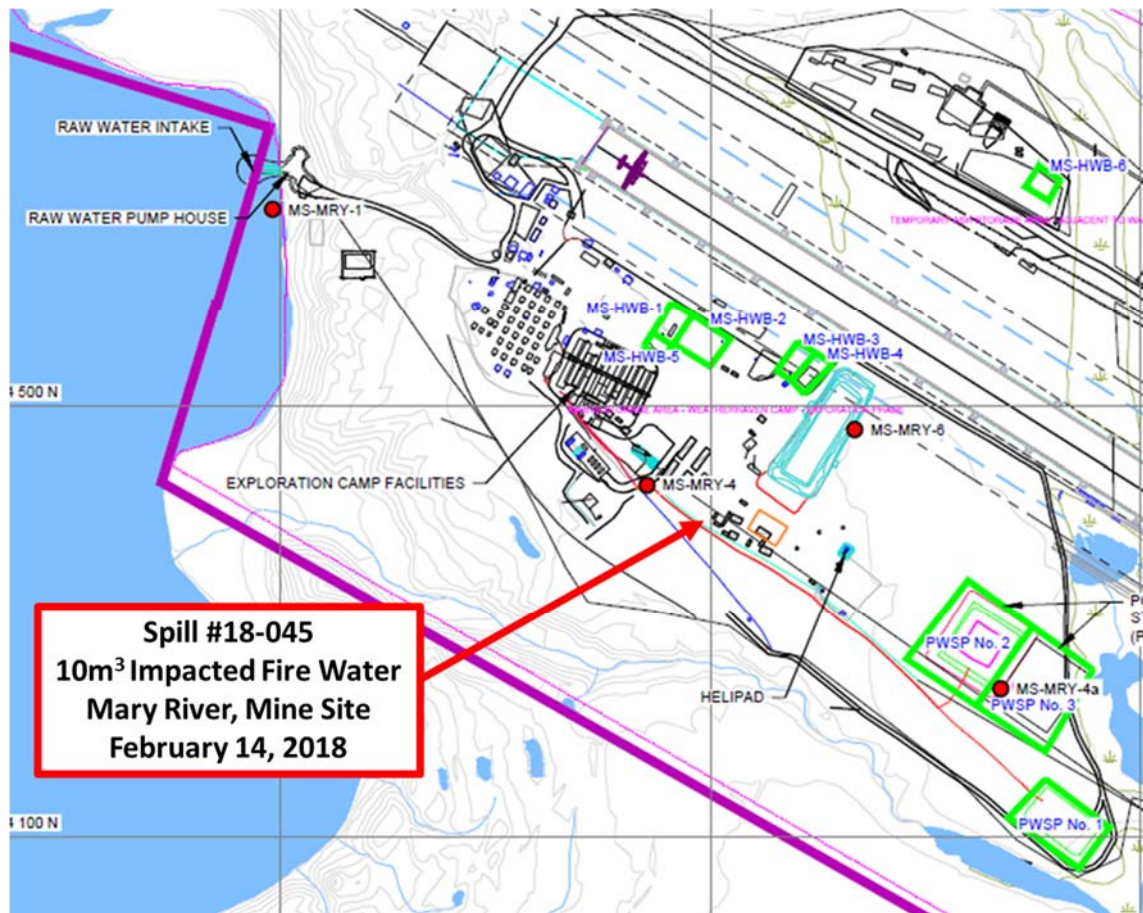


Figure 1 – Map of spill location



# 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

<b>A</b>	REPORT DATE: MONTH - DAY - YEAR <b>02-15-18</b>	REPORT TIME <b>20:00</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER <b>18 - 045</b>
<b>B</b>	OCCURRENCE DATE: MONTH - DAY - YEAR <b>02-14-18</b>	OCCURRENCE TIME <b>Unknown</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>IOL - Commercial Lease: Q13C301</b>	WATER LICENSE NUMBER (IF APPLICABLE) <b>2AM-MRY1325 Type "A"</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Mary River Mine Site, Baffin Island, NU</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
<b>E</b>	LATITUDE DEGREES <b>71</b> MINUTES <b>19</b> SECONDS <b>51</b>		LONGITUDE DEGREES <b>79</b> MINUTES <b>22</b> SECONDS <b>32</b>	
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Baffinland Iron Mines Corp.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>2275 Middle Road East, Sutie 300, Oakville, ON L6H 0C3</b>		
<b>G</b>	ANY CONTRACTOR INVOLVED <b>Almiq, Nuna</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>		
<b>H</b>	PRODUCT SPILLED <b>Impacted Fire Water</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>Approx. 10m3</b>	U.N. NUMBER <b>N/A</b>	
	SECOND PRODUCT SPILLED (IF APPLICABLE) <b>N/A</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>N/A</b>	U.N. NUMBER <b>N/A</b>	
<b>I</b>	SPILL SOURCE <b>Fire/Fire Fighting Equipment</b>	SPILL CAUSE <b>Fire Fighting</b>	AREA OF CONTAMINATION IN SQUARE METRES	
<b>J</b>	FACTORS AFFECTING SPILL OR RECOVERY <b>Fire, Freezing Conditions</b>	DESCRIBE ANY ASSISTANCE REQUIRED <b>Heavy Equipment</b>	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT <b>N/A</b>	
<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <p>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 at this time. The Mine Rescue Team was dispatched to extinguish the fire, which took approximately an 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. Approximately 10m3 of fire impacted water was produced, confined to the pad; berms and extreme temperatures mitigated the migration of the water. This spill is &gt;160m 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.</p>			
<b>L</b>	REPORTED TO SPILL LINE BY <b>Connor Devereaux</b>	POSITION <b>Env. Superintendent</b>	EMPLOYER <b>Baffinland</b>	LOCATION CALLING FROM <b>Mary River</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Tim Sewell</b>	POSITION <b>Head of HSE</b>	EMPLOYER <b>Baffinland</b>	ALTERNATE CONTACT <b>6016</b>
REPORT LINE USE ONLY				
<b>N</b>	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC		SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY	CONTACT NAME		CONTACT TIME	REMARKS
LEAD AGENCY				
FIRST SUPPORT AGENCY				
SECOND SUPPORT AGENCY				
THIRD SUPPORT AGENCY				

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 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 15m<sup>2</sup>. 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:

A handwritten signature in black ink, appearing to read "Bryan Lukeman".

Bryan Lukeman  
Environmental Coordinator

Reviewed by:

A handwritten signature in black ink, appearing to read "Connor Devereaux".

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**





# 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

<b>A</b>	REPORT DATE: MONTH - DAY - YEAR <b>02-24-2018</b>	REPORT TIME <b>20:45</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # TO THE ORIGINAL SPILL REPORT	REPORT NUMBER <b>18 051</b>	
<b>B</b>	OCCURRENCE DATE: MONTH - DAY - YEAR <b>02-22-2018</b>		OCCURRENCE TIME <b>10:30</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>IOL - Commercial Lease: Q13C301</b>		WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MRY1325 Type "A"</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Mary River Mine Site, Baffin Island, NU</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>71</b> MINUTES <b>18</b> SECONDS <b>55</b>		LONGITUDE DEGREES <b>79</b> MINUTES <b>17</b> SECONDS <b>04</b>		
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Baffinland Iron Mines Corp.</b>		RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3</b>		
<b>G</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>		CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>		
<b>H</b>	PRODUCT SPILLED <b>Raw Sewage</b>		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>Approx. 200L</b>	U.N. NUMBER <b>N/A</b>	
	SECOND PRODUCT SPILLED (IF APPLICABLE) <b>N/A</b>		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>N/A</b>	U.N. NUMBER <b>N/A</b>	
<b>I</b>	SPILL SOURCE <b>Lift Station</b>		SPILL CAUSE <b>Influent to lift station</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>15m2</b>	
<b>J</b>	FACTORS AFFECTING SPILL OR RECOVERY <b>Congested area, snow and ice</b>		DESCRIBE ANY ASSISTANCE REQUIRED <b>N/A</b>	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT <b>N/A</b>	
<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS  <b>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 &gt;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.</b>				
<b>L</b>	REPORTED TO SPILL LINE BY <b>Connor Devereaux</b>	POSITION <b>Env. Superintendent</b>	EMPLOYER <b>Baffinland</b>	LOCATION CALLING FROM <b>Mary River</b>	TELEPHONE <b>416 364 8820</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Tim Sewell</b>	POSITION <b>Head of HSE</b>	EMPLOYER <b>Baffinland</b>	ALTERNATE CONTACT <b>LOCATION</b>	ALTERNATE TELEPHONE <b>ext. 6016</b>
REPORT LINE USE ONLY					
<b>N</b>	RECEIVED AT SPILL LINE BY <b>STATION OPERATOR</b>	POSITION <b>STATION OPERATOR</b>	EMPLOYER <b>STATION OPERATOR</b>	LOCATION CALLED <b>YELLOWKNIFE, NT</b>	REPORT LINE NUMBER <b>(867) 920-8130</b>
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

PAGE 1 OF 1

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 overflowing. Approximately 150L of sewage was released to the adjacent camp pad ground surface, impacting an approximate area of 10m<sup>2</sup>. 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:

A handwritten signature in black ink, appearing to read "Bryan Lukeman".

Bryan Lukeman  
Environmental Coordinator

Reviewed by:

A handwritten signature in black ink, appearing to read "Connor Devereaux".

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. Lift station and camp pad following clean-up**



**Figure 1 – Map of 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

<b>A</b>	REPORT DATE: MONTH – DAY – YEAR <b>02-24-2018</b>		REPORT TIME <b>18:30</b>		<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER  <b>18 050</b>
	OCCURRENCE DATE: MONTH – DAY – YEAR <b>02-23-2018</b>		OCCURRENCE TIME <b>16:30</b>			
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>IOL - Commercial Lease: Q13C301</b>			WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MRY1325 Type "A"</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Mary River Mine Site, Baffin Island, NU</b>				REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
<b>E</b>	LATITUDE DEGREES <b>71</b> MINUTES <b>13</b> SECONDS <b>43</b>			LONGITUDE DEGREES <b>79</b> MINUTES <b>14</b> SECONDS <b>08</b>		
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Baffinland Iron Mines Corp.</b>		RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3</b>			
<b>G</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>		CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>			
<b>H</b>	PRODUCT SPILLED <b>Raw Sewage</b>		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>Approx. 150L</b>		U.N. NUMBER <b>N/A</b>	
	SECOND PRODUCT SPILLED (IF APPLICABLE) <b>N/A</b>		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>N/A</b>		U.N. NUMBER <b>N/A</b>	
<b>I</b>	SPILL SOURCE <b>Lift Station</b>		SPILL CAUSE <b>Discharge line blockage</b>		AREA OF CONTAMINATION IN SQUARE METRES <b>10m2</b>	
<b>J</b>	FACTORS AFFECTING SPILL OR RECOVERY <b>Congested area, snow and ice</b>		DESCRIBE ANY ASSISTANCE REQUIRED <b>N/A</b>		HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT <b>N/A</b>	
<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS  <b>On February 23, 2018 at approximately 16:30 hrs, while conducting 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 overflowing. The lift station was immediately emptied by vacuum truck to prevent further overflow. A vacuum truck is continuing to empty the lift station on a daily basis until repairs can be made. Approximately 150L of sewage was released to the adjacent camp pad ground surface, impacting an approximate area of 10m2. This spill is &gt;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.</b>					
<b>L</b>	REPORTED TO SPILL LINE BY <b>Connor Devereaux</b>	POSITION <b>Env. Superintendent</b>	EMPLOYER <b>Baffinland</b>	LOCATION CALLING FROM <b>Mary River</b>	TELEPHONE <b>416 364 8820</b>	
<b>M</b>	ANY ALTERNATE CONTACT <b>Tim Sewell</b>	POSITION <b>Head of HSE</b>	EMPLOYER <b>Baffinland</b>	ALTERNATE CONTACT LOCATION	ALTERNATE TELEPHONE <b>ext. 6016</b>	
REPORT LINE USE ONLY						
<b>N</b>	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130	
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED	
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS		
LEAD AGENCY						
FIRST SUPPORT AGENCY						
SECOND SUPPORT AGENCY						
THIRD SUPPORT AGENCY						

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 20m<sup>2</sup>. 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:

A handwritten signature in black ink, appearing to read "DRitgen".

Dominic Ritgen  
Environmental Coordinator

Reviewed by:

A handwritten signature in black ink, appearing to read "Connor Devereaux".

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**





Spill#18-052  
200L Arctic Diesel  
Milne Port  
February 25, 2018

Figure 1 – 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

<b>A</b>	REPORT DATE: MONTH – DAY – YEAR <b>02-26-2018</b>	REPORT TIME <b>07:00</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER <b>18 - 052</b>
<b>B</b>	OCCURRENCE DATE: MONTH – DAY – YEAR <b>02-25-2018</b>	OCCURRENCE TIME <b>04:50</b>			
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>IOL - Commercial Lease: Q13C301</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MRY1325 Type "A"</b>			
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Mary River Mine Site, Baffin Island, NU</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>71</b> MINUTES <b>53</b> SECONDS <b>08</b>		LONGITUDE DEGREES <b>80</b> MINUTES <b>53</b> SECONDS <b>34</b>		
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Baffinland Iron Mines Corp.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3</b>			
<b>G</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>			
<b>H</b>	PRODUCT SPILLED <b>Arctic Diesel</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>Approx. 200L</b>	U.N. NUMBER <b>N/A</b>		
	SECOND PRODUCT SPILLED (IF APPLICABLE) <b>N/A</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>N/A</b>	U.N. NUMBER <b>N/A</b>		
<b>I</b>	SPILL SOURCE <b>Fuel tanker</b>	SPILL CAUSE <b>Unknown</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>20m2</b>		
<b>J</b>	FACTORS AFFECTING SPILL OR RECOVERY <b>Congested area, snow and ice</b>	DESCRIBE ANY ASSISTANCE REQUIRED <b>N/A</b>	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT <b>N/A</b>		
<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS  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. The operator immediately shut off the fuel pump, closed the valves and laid down spill pads to contain the spill. 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. The contaminated material was removed and properly disposed of in the landfarm. The spill occurred >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 NWT 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.				
<b>L</b>	REPORTED TO SPILL LINE BY <b>Connor Devereaux</b>	POSITION <b>Env. Superintendent</b>	EMPLOYER <b>Baffinland</b>	LOCATION CALLING FROM <b>Mary River</b>	TELEPHONE <b>416 364 8820</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Tim Sewell</b>	POSITION <b>Head of HSE</b>	EMPLOYER <b>Baffinland</b>	ALTERNATE CONTACT LOCATION	ALTERNATE TELEPHONE <b>ext. 6016</b>
REPORT LINE USE ONLY					
<b>N</b>	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY	CONTACT NAME		CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

PAGE 1 OF 1

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 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

**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 30m<sup>2</sup>. 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:

A handwritten signature in black ink, appearing to read "B. Lukeman".

Bryan Lukeman  
Environmental Coordinator

Reviewed by:

A handwritten signature in black ink, appearing to read "Connor Devereaux".

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. Lift station and camp pad following clean-up**



**Figure 1 – Map of 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

<b>A</b>	REPORT DATE: MONTH – DAY – YEAR <b>02-27-2018</b>	REPORT TIME <b>19:00</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # TO THE ORIGINAL SPILL REPORT	REPORT NUMBER <b>18 - 062</b>
<b>B</b>	OCCURRENCE DATE: MONTH – DAY – YEAR <b>02-27-2018</b>	OCCURRENCE TIME <b>06:40</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>IOL - Commercial Lease: Q13C301</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MRY1325 Type "A"</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Mary River Mine Site, Baffin Island, NU</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
<b>E</b>	LATITUDE DEGREES <b>71</b> MINUTES <b>18</b> SECONDS <b>53</b>		LONGITUDE DEGREES <b>79</b> MINUTES <b>16</b> SECONDS <b>57</b>	
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Baffinland Iron Mines Corp.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3</b>		
<b>G</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>		
<b>H</b>	PRODUCT SPILLED <b>Raw Sewage</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>Approx. 200L</b>	U.N. NUMBER <b>N/A</b>	
	SECOND PRODUCT SPILLED (IF APPLICABLE) <b>N/A</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>N/A</b>	U.N. NUMBER <b>N/A</b>	
<b>I</b>	SPILL SOURCE <b>Lift Station</b>	SPILL CAUSE <b>Discharge line frozen</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>30m2</b>	
<b>J</b>	FACTORS AFFECTING SPILL OR RECOVERY <b>Congested area, snow and ice</b>	DESCRIBE ANY ASSISTANCE REQUIRED <b>N/A</b>	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT <b>N/A</b>	
<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS  <b>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 &gt;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.</b>			
<b>L</b>	REPORTED TO SPILL LINE BY <b>Connor Devereaux</b>	POSITION <b>Env. Superintendent</b>	EMPLOYER <b>Baffinland</b>	LOCATION CALLING FROM <b>Mary River</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Tim Sewell</b>	POSITION <b>Head of HSE</b>	EMPLOYER <b>Baffinland</b>	ALTERNATE CONTACT <b>ext. 6016</b>
REPORT LINE USE ONLY				
<b>N</b>	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC		SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY	CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY				
FIRST SUPPORT AGENCY				
SECOND SUPPORT AGENCY				
THIRD SUPPORT AGENCY				

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@aadnc-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 m<sup>2</sup>. 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:**

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.

Prepared By:

A handwritten signature in black ink, appearing to read "Benjamin Widdowson".

Ben Widdowson  
Environmental Coordinator

Reviewed by:

A handwritten signature in black ink, appearing to read "Bill Bowden".

William Bowden  
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**





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

<b>A</b>	REPORT DATE: MONTH – DAY – YEAR <b>03-17-2018</b>		REPORT TIME <b>10:00</b>		<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER <b>18-089</b>
	OCCURRENCE DATE: MONTH – DAY – YEAR <b>03-16-2018</b>		OCCURRENCE TIME <b>10:30</b>			
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>IOL - Commercial Lease: Q13C301</b>			WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MRY1325 Type "A"</b>		
	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Mary River Mine Site, Baffin Island, NU</b>			REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>79</b> MINUTES <b>13</b> SECONDS <b>43</b>			LONGITUDE DEGREES <b>56</b> MINUTES <b>14</b> SECONDS <b>08</b>		
	RESPONSIBLE PARTY OR VESSEL NAME <b>Baffinland Iron Mines Corp.</b>			RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3</b>		
<b>G</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>			CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>		
	PRODUCT SPILLED <b>Raw Sewage</b>			QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>Approx. 200 L</b>		U.N. NUMBER <b>N/A</b>
<b>H</b>	SECOND PRODUCT SPILLED (IF APPLICABLE) <b>N/A</b>			QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>N/A</b>		U.N. NUMBER <b>N/A</b>
	SPILL SOURCE <b>Lift Station</b>			SPILL CAUSE <b>Float Failure/Frozen Line</b>		AREA OF CONTAMINATION IN SQUARE METRES <b>Approx. 10 m2</b>
<b>J</b>	FACTORS AFFECTING SPILL OR RECOVERY <b>Snow and ice around lift station</b>			DESCRIBE ANY ASSISTANCE REQUIRED <b>N/A</b>		HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT <b>N/A</b>
	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <b>At 10:30 on March 16, 2018, while performing inspections of the MSC lift Stations, a housing 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 &gt;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.</b>					
<b>L</b>	REPORTED TO SPILL LINE BY <b>Connor Devereaux</b>	POSITION <b>Env. Superintendent</b>	EMPLOYER <b>Baffinland</b>	LOCATION CALLING FROM <b>Mary River</b>	TELEPHONE <b>647 253 0596</b>	
	ANY ALTERNATE CONTACT <b>Tim Sewell</b>	POSITION <b>Head of HSE</b>	EMPLOYER <b>Baffinland</b>	ALTERNATE CONTACT LOCATION	ALTERNATE TELEPHONE <b>ext. 6016</b>	
REPORT LINE USE ONLY						
<b>N</b>	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130	
	LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS		
LEAD AGENCY						
FIRST SUPPORT AGENCY						
SECOND SUPPORT AGENCY						
THIRD SUPPORT AGENCY						

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@aadnc-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 20m<sup>2</sup>. 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:

*Benjamin Widdowson*

Ben Widdowson  
Environmental Coordinator

Reviewed by:

*Bill Bowden*

William Bowden  
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**



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

<b>A</b>	REPORT DATE: MONTH – DAY – YEAR <b>03-19-2018</b>		REPORT TIME <b>19:30</b>		<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER <b>18-098</b>
	OCCURRENCE DATE: MONTH – DAY – YEAR <b>03-18-2018</b>		OCCURRENCE TIME <b>22:00</b>			
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>IOL - Commercial Lease: Q13C301</b>			WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MRY1325 Type "A"</b>		
	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Mary River Mine Site, Baffin Island, NU</b>			REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>71</b> MINUTES <b>18</b> SECONDS <b>55</b>			LONGITUDE DEGREES <b>79</b> MINUTES <b>17</b> SECONDS <b>04</b>		
	RESPONSIBLE PARTY OR VESSEL NAME <b>Baffinland Iron Mines Corp.</b>			RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3</b>		
<b>G</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>			CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>		
	PRODUCT SPILLED <b>Raw Sewage</b>			QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>Approx. 300L</b>		U.N. NUMBER <b>N/A</b>
<b>H</b>	SECOND PRODUCT SPILLED (IF APPLICABLE) <b>N/A</b>			QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>N/A</b>		U.N. NUMBER <b>N/A</b>
	SPILL SOURCE <b>Lift Station</b>			SPILL CAUSE <b>Overflow</b>		AREA OF CONTAMINATION IN SQUARE METRES <b>20m2</b>
<b>J</b>	FACTORS AFFECTING SPILL OR RECOVERY <b>Congested area, snow and ice</b>			DESCRIBE ANY ASSISTANCE REQUIRED <b>N/A</b>		HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT <b>N/A</b>
	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <b>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 &gt;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.</b>					
<b>L</b>	REPORTED TO SPILL LINE BY <b>Connor Devereaux</b>	POSITION <b>Env. Superintendent</b>	EMPLOYER <b>Baffinland</b>	LOCATION CALLING FROM <b>Mary River</b>	TELEPHONE <b>416 364 8820</b>	
	ANY ALTERNATE CONTACT <b>Tim Sewell</b>	POSITION <b>Head of HSE</b>	EMPLOYER <b>Baffinland</b>	ALTERNATE CONTACT LOCATION	ALTERNATE TELEPHONE <b>ext. 6016</b>	
REPORT LINE USE ONLY						
<b>N</b>	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130	
	LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS		
LEAD AGENCY						
FIRST SUPPORT AGENCY						
SECOND SUPPORT AGENCY						
THIRD SUPPORT AGENCY						

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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@aadnc-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 15m<sup>2</sup>.

**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:

A handwritten signature in blue ink, appearing to read "Ezra Arreak".

Ezra Arreak  
Environmental Coordinator

Reviewed by:

A handwritten signature in blue ink, appearing to read "Bill Bowden".

William Bowden  
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**



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

<b>A</b>	REPORT DATE: MONTH - DAY - YEAR <b>03-20-2018</b>	REPORT TIME <b>09:00</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT. OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	<b>REPORT NUMBER</b> <b>18 - 100</b>
<b>B</b>	OCCURRENCE DATE: MONTH - DAY - YEAR <b>03-19-2018</b>	OCCURRENCE TIME <b>09:00</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>IOL - Commercial Lease: Q13C301</b>		WATER LICENSE NUMBER (IF APPLICABLE) <b>2AM-MRY1325 Type "A"</b>	
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Mary River Mine Site, Baffin Island, NU</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
<b>E</b>	LATITUDE DEGREES <b>71</b> MINUTES <b>53</b> SECONDS <b>07</b>		LONGITUDE DEGREES <b>80</b> MINUTES <b>53</b> SECONDS <b>20</b>	
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Baffinland Iron Mines Corp.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3</b>		
<b>G</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>		
<b>H</b>	PRODUCT SPILLED <b>Raw Sewage</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>Approx. 300L</b>	U.N. NUMBER <b>N/A</b>	
	SECOND PRODUCT SPILLED (IF APPLICABLE) <b>N/A</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>N/A</b>	U.N. NUMBER <b>N/A</b>	
<b>I</b>	SPILL SOURCE <b>Lift station</b>	SPILL CAUSE <b>Line coupling failure</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>15m2</b>	
<b>J</b>	FACTORS AFFECTING SPILL OR RECOVERY <b>Congested area, snow and ice</b>	DESCRIBE ANY ASSISTANCE REQUIRED <b>N/A</b>	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT <b>N/A</b>	
<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS  <b>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 &gt;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.</b>			
<b>L</b>	REPORTED TO SPILL LINE BY <b>Connor Devereaux</b>	POSITION <b>Env. Superintendent</b>	EMPLOYER <b>Baffinland</b>	LOCATION CALLING FROM <b>Mary River</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Tim Sewell</b>	POSITION <b>Head of HSE</b>	EMPLOYER <b>Baffinland</b>	ALTERNATE CONTACT <b>ext. 6016</b>
<b>REPORT LINE USE ONLY</b>				
<b>N</b>	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN	
AGENCY			FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED	
CONTACT NAME		CONTACT TIME	REMARKS	
LEAD AGENCY				
FIRST SUPPORT AGENCY				
SECOND SUPPORT AGENCY				
THIRD SUPPORT AGENCY				

PAGE 1 OF 1

Figure 2 – NT-NU Spill report