

DE BEERS GROUP

February 7, 2019

Angela Love, EP
Regulatory Specialist
Mackenzie Valley Land and Water Board
7th Floor – 4922 48th Street
P.O. Box 2130
Yellowknife, NT X1A 2P6

Dear Ms. Love,

Subject: Follow-Up Spill Report – Plow Truck and CAT Loader Breaking Through Ice at Winter Road - Gahcho Kué Mine – January 7, 2019 (GNWT Spill # 2019012)

Incident Summary:

On January 7th, 2019 at 1:25 PM, a winter road plow truck (International Plow Truck Unit# 0091) sunk tires through the ice at the narrows of Murdock lake (see attached figure), and was grounded at half the tire height (6-18 inch). During initial retrieval of the plow truck, a CAT IT28 loader also broke through the ice with the same depth (6-18 inch).

Both vehicles were successfully retrieved and inspected for damage. There was no physical damage or hydrocarbon leaks identified.

An NT-NU Spill Report was completed and submitted on the online ENR Website and submitted via email to the NWT Spills Hotline (spills@gov.nt.ca) at 3PM on January 10, 2019.

Root Cause Analysis:

- **Improper Position for Task:** The snow removing equipment was not working in the area that had snow profiling completed.
- **Failure to Check/Monitor:** Supervision has not been on the road assisting crews consistently throughout the day.
- **Inadequate Warning System:** Ice profile team only performed three ice profile lines as per "Ice Road Construction/Maintenance - Profiling" procedure within the area of the incident. A more detailed profile (i.e more profile lines) of the hazardous areas located at Murdock narrows would have ensured that all hazardous areas were barricaded and known by all employees.
- **Inadequate Preparation/Planning:** The ice profiling crew changed the route very slightly without conducting an ice calibration within the new path at the entrance of the lake narrow.

De Beers Canada inc.

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Corrective Actions:

- Once the vehicle retrieval is complete, the mechanics inspected equipment for damage immediately.
- Conducting assessment for rerouting the road on land to avoid the incident area, and ensuring the accident area is barricaded off and well marked
- Conducting hazard assessment for high-risk areas (e.g Narrows) that the supervisors and operators can use to identify hazards. The assessment will include known hazardous areas, which include; Reid Lake Narrows, Murdock Lake Narrows, and P26
- Providing presentation on winter road safety to all crew members at the beginning of the season

The internal investigation relating to this incident has been concluded and the corrective actions have been completed or planned. Should you have any questions or concerns, please do not hesitate to contact the undersigned at your convenience.

Sincerely,



William Liu
Regulatory Specialist

Attachments:

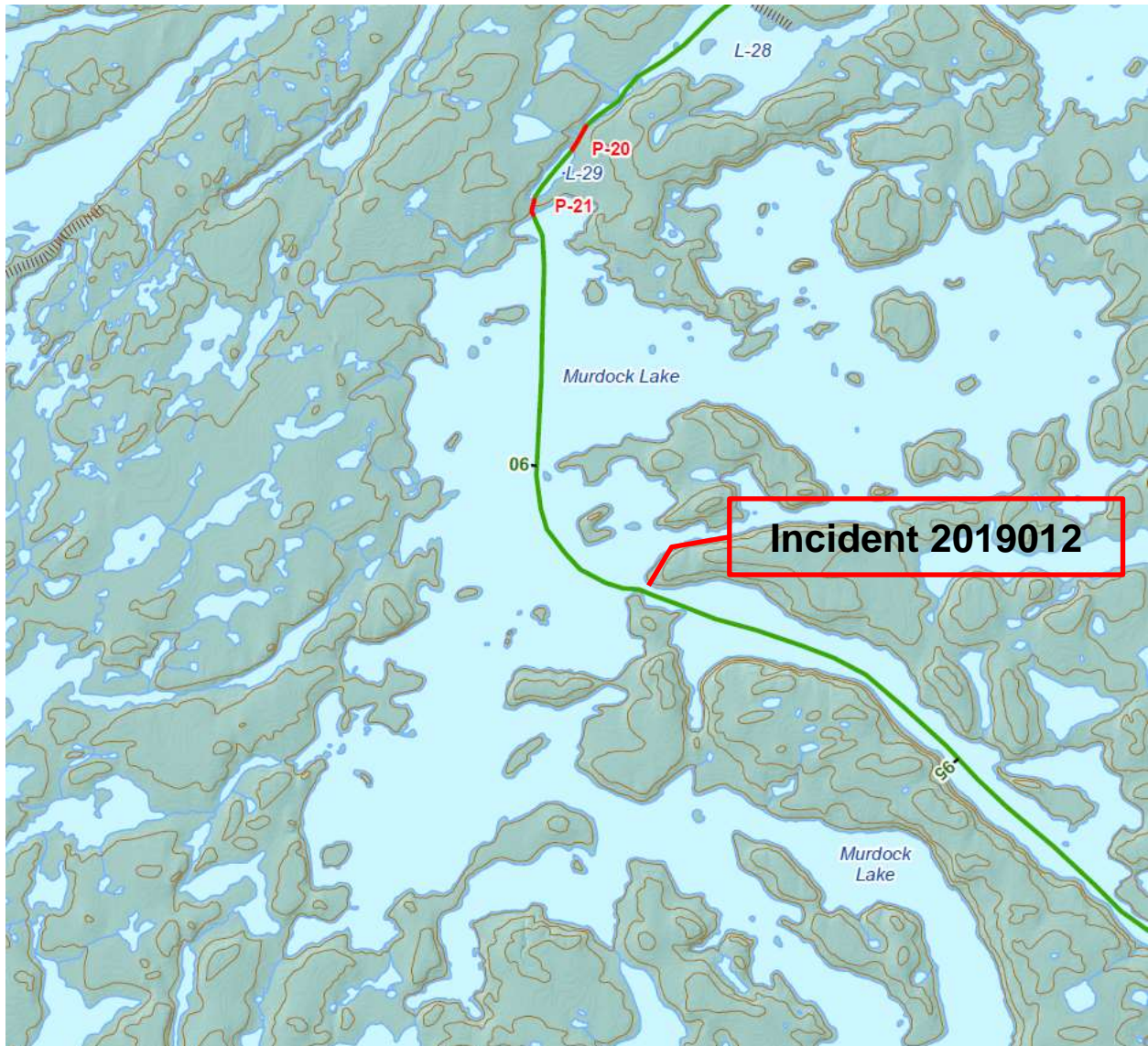
1. Location of Spill;
2. NT-NU Spill Report, and;
3. Photos.

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Map showing the Location of the Spill (63° 36.731' N, 109° 27.904' W)

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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

A	Report Date: 01 10 19	Report Time: 3:30 pm	<input checked="" type="checkbox"/> Original Spill Report		Report Number: 2019012
	Occurrence Date: 01 07 19	Occurrence Time: 3:30 pm	<input type="checkbox"/> Update # _____ to the Original Spill Report		
C	Land Use Permit Number (if applicable): MV2005C0032		Water Licence Number (if applicable): MV2005L2-0015		
D	Geographic Place Name or Distance and Direction from the Named Location: Murdock Lake - De Beers Canada Gahcho Kue Mine Winter Spur Road			Region: <input checked="" type="checkbox"/> NT <input type="checkbox"/> Nunavut <input type="checkbox"/> Adjacent Jurisdiction or Ocean	
E	Latitude: 63 Degrees 36 Minutes 44 Seconds		Longitude: 109 Degrees 27 Minutes 54 Seconds		
F	Responsible Party or Vessel Name: De Beers Canada		Responsible Party Address or Office Location: Suite 300 - 1601 Airport Road NE Calgary, Alberta, Canada T2E 6X8		
G	Any Contractor Involved: Nuna Group of Companies		Contractor Address or Office Location: 6194 - 50 Street NW, Edmonton, Alberta, Canada, T6B 2N7		
H	Product Spilled: <input checked="" type="checkbox"/> Potential Spill Vehicle fluids/hydrocarbons	Quantity in Litres, Kilograms or Cubic Metres: NA	U.N. Number:		
I	Spill Source: International Plow Truck and CAT IT28 loader	Spill Cause: Broke through ice in shallow water	Area of Contamination in Square Metres: NA		
J	Factors Affecting Spill or Recovery: None	Describe Any Assistance Required: None	Hazards to Persons, Property or Environment: None		
K	<p>Additional Information, Comments, Actions Proposed or Taken to Contain, Recover or Dispose of Spilled Product and Contaminated Materials: This report is for a potential spill involving a plow truck and loader that broke through the ice on Murdock Lake during construction of the De Beers Canada Gahcho Kue Mine winter spur road. Note that there was no evidence of an actual spill.</p> <p>On January 7th, 2019 at 1:25 PM, a plow truck operated by Nuna Logistics, and involved in the construction of the Gahcho Kue Mine winter spur road, broke through the ice at the narrows on the east side of Murdock Lake. The water depth at this location was between 5'-18" deep. All four tires broke through the ice, and following the incident, there was no visible damage to the vehicle, and it sat more or less level on the rocky bottom of the lake.</p> <p>During retrieval of the plow truck, a CAT IT28 loader being used to tow the plow truck to shore, also broke through the thin ice in the area in the same depth of water (5-18"). There was no damage to the loader, and no evidence of a spill. A Snowcat tracked vehicle was used to retrieve the loader, and then both vehicles (Snowcat and loader) were used to successfully tow the plow truck to shore.</p> <p>Following the successful retrieval of the vehicles, they were thoroughly inspected and showed no signs of damage or leaks.</p>				
L	Reported to Spill Line by: Robert Smith	Position: Logistics Superintendent	Employer: De Beers Canada Inc.	Location Calling From: Gahcho Kue Mine	Telephone: (867) 688-8701
M	Any Alternate Contact: Rodney Langlois	Position: Logistics Supervisor	Employer: De Beers Canada Inc.	Alternate Contact Location: Gahcho Kue Mine	Alternate Telephone: (867) 445-5742

REPORT LINE USE ONLY

N	Received at Spill Line by:	Position:	Employer:	Location Called:	Report Line Number:
Lead Agency: <input type="checkbox"/> EC <input type="checkbox"/> CCG/TCMSS <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA		Significance: <input type="checkbox"/> Minor <input type="checkbox"/> Major <input type="checkbox"/> Unknown		File Status: <input type="checkbox"/> Open <input type="checkbox"/> Closed	
<input type="checkbox"/> AANDC <input type="checkbox"/> NEB <input type="checkbox"/> Other: _____					
Agency:	Contact Name:	Contact Time:	Remarks:		
Lead Agency:					
First Support Agency:					
Second Support Agency:					
Third Support Agency:					

NT-NU Spill Report De Beers Canada inc.

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Vehicle retrieval



Vehicle retrieval

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After vehicle retrieval



After vehicle retrieval

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