

DE BEERS GROUP

December 29, 2021

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Mackenzie Valley Land and Water Board
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Nahum Lee
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North Slave Regional Office
Department of Lands
Government of the Northwest Territories
140 Bristol Avenue, Yellowknife, NT X1A 3T2

Subject: Follow-Up Spill Report – Hydraulic Oil – Gahcho Kué Mine – December 2, 2021 (GNWT Spill #2021484)

Pursuant to Part H Condition 3(d) of Water License MV2005L2-0015, De Beers Canada Inc. (De Beers) is submitting this follow-up spill report for GNWT Spill #2021484, which occurred at the Gahcho Kué Mine at 11:04 on December 2, 2021.

An NT-NU Spill Report was completed and submitted via email to the NWT Spills Hotline (spills@gov.nt.ca) at 09:00 on December 3, 2021.

Incident Summary:

On December 2, 2021 at approximately 11:04am, the operator of Fuel Truck LV-015 began refueling the bulk storage tank of their vehicle. As the operator was filling out paperwork in the cab of their vehicle, they noticed fuel spilling on the ground coming out of the overflow pipes located between the cab and the tank. The operator immediately closed the main valve and stopped the pump. Approximately 150L of diesel was spilled.

Immediate Actions:

Spill pads and booms were immediately deployed, and all spilled fuel was contained within the established lined transfer area containment. Contaminated material was then removed and loaded out to the Type 3 Area of the West Mine Rock Pile.

Root Cause:

LV-0015 is equipped with an automatic overfill shut off, however in this instance it was discovered to have failed upon reaching the maximum level. Further investigation indicated that the air dryer within the pneumatic system caused moisture in air line that sends the signal to the shut off valve. This moisture froze and obstructed the air line, resulting in the shut off valve failing.

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As per standard site procedure, the operator of any light vehicle is to remain on the ground during refueling operations to monitor for any overfill that may occur. In this instance the operator failed to follow procedure, which led to a delayed response to the overfill resulting in a spill.

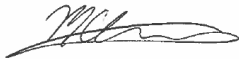
Follow-Up Actions:

The following preventative actions were identified during the internal investigation:

1. Review maintenance tactics regarding air dryer systems.
2. Disciplinary action for operator not adequately following refueling procedure.
3. Investigate the creation of a observation area from inside pump house to allow operators to monitor fueling while keeping them out of the colder temps while loading fuel.
4. Investigate different shut off valve system that does not rely on an air system due to moisture being a concern during winter operations.

Should you have any questions or concerns, or require any additional information, please do not hesitate to contact the undersigned at your convenience.

Sincerely,



Mason Elwood
Environmental Coordinator / Gahcho Kué Mine
867.679.5814
mason.elwood@debeersgroup.com

Attachments:

- Figure 1. Location of GNWT Spill #2021484**
- Figure 2. Photos GNWT Spill #2021484**
- Figure 3. Photos GNWT Spill #2021484**
- Figure 4. Clean Up Photos GNWT Spill #2021484**
- Figure 5. Clean Up Photos GNWT Spill #2021484**
- Figure 6. Original Spill Report (GNWT Spill #2021484)**

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Figure 1. Location of GNWT Spill #2021484

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Figure 2. Photos GNWT Spill #2021484



Figure 3. Photos GNWT Spill #2021484

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Figure 4. Clean Up Photos GNWT Spill #2021484



Figure 5. Clean Up Photos GNWT Spill #2021484

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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 • Email: spills@gov.nt.ca

REPORT LINE USE ONLY

A	Report Date:	12 03 21	Report Time:	9:00 am	<input type="checkbox"/> Original Spill Report OR <input checked="" type="checkbox"/> Update # 1 to the Original Spill Report	Report Number: 2021484
	B	Occurrence Date:	12 02 21	Occurrence Time:		
C	Land Use Permit Number (if applicable): MV2021D0009			Water Licence Number (if applicable): MV2005L2-0015		
D	Geographic Place Name or Distance and Direction from the Named Location: De Beers Group (Canada) Gahcho Kue Mine (Kennady Lake, NT)				Region: <input checked="" type="checkbox"/> NT <input type="checkbox"/> Nunavut <input type="checkbox"/> Adjacent Jurisdiction or Ocean	
E	Latitude: 63 Degrees 26 Minutes 35 Seconds			Longitude: 109 Degrees 10 Minutes 43 Seconds		
F	Responsible Party or Vessel Name: De Beers Group			Responsible Party Address or Office Location: Suite 300 - 1601 Airport Road NE, Calgary Alberta Canada T2E 6X8		
G	Any Contractor Involved:			Contractor Address or Office Location:		
H	Product Spilled:	<input type="checkbox"/> Potential Spill Diesel	Quantity in Litres, Kilograms or Cubic Metres: 150L	U.N. Number:		
I	Spill Source: Fuel Truck (LV-015)	Spill Cause: Overfill		Area of Contamination in Square Metres: 10 sq. m.		
J	Factors Affecting Spill or Recovery: N/A	Describe Any Assistance Required: N/A		Hazards to Persons, Property or Environment: N/A		
K	Additional Information, Comments, Actions Proposed or Taken to Contain, Recover or Dispose of Spilled Product and Contaminated Materials: On December 2, 2021 at approximately 11:04am, during dispensing operations of diesel to the Fuel Truck (LV-015), the operator noticed fuel spilling on the ground coming out of the overflow pipes located between the cab and the tank. The operator immediately closed the main valve and stopped the pump. Approximately 150L of diesel was spilled. All spilled fuel was contained within the established lined transfer area containment. The contaminated material was removed and loaded out to the Type 3 Area of the West Mine Rock Pile. An investigation on the incident is ongoing and details will be provided in the follow up report within 30 days.					
L	Reported to Spill Line by: Allan Knight	Position: Env. Coordinator	Employer: De Beers	Location Calling From: Gahcho Kue Mine	Telephone: (867) 679-5812	
M	Any Alternate Contact: Mason Elwood	Position: Env. Coordinator	Employer: De Beers	Alternate Contact Location: Off Site	Alternate Telephone: (867) 679-5814	

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 <input type="checkbox"/> AANDC <input type="checkbox"/> NEB <input type="checkbox"/> Other: _____					
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 6. Original Spill Report (GNWT Spill #2021484)