



January 30, 2012

File: S095

Mr. Willard Hagen, Chair  
Mackenzie Valley Land and Water Board  
Box 2130  
7<sup>th</sup> Floor, 4910-50<sup>th</sup> Avenue  
Yellowknife, NT.  
X1A 2P6

Dear Mr. Hagen:

**Re: Snap Lake Mine  
Land Use Permit – MV2010D0053  
Follow-Up Report on Spill Report # 12-012**

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## **BACKGROUND**

Approximately 30 liters of grey water / raw sewage was spilled at the Snap Lake Mine site and reported to the Spill Line January 2, 2012. The spill occurred inside Sewage Treatment Plant 1 (Figure 1). The coordinates for the spill are UTM coordinates 12V NAD83 0506341 Easting by 7052931 Northing.

## **SPILL INVESTIGATION AND CONTINUAL IMPROVEMENT (ADAPTIVE MANAGEMENT)**

The Utilities Operator was conducting his usual plant checks when he observed a split in the 6 inch pipe entering the lift station at Sewage Treatment Plant 1. From the investigation of the incident, it was determined that the break was due to the pipe shifting and splitting. Approximately 30 liters of grey water / raw sewage was spilled which infiltrated the fine then coarse gravel base and impacted an area of less than 0.25 by 0.25 meters. The floats were lowered in the lift station to prevent the water reaching the pipe until it could be repaired.

Surface clean up was not undertaken due immediate ground infiltration. Hydrated lime was applied to the local surface area to promote disinfection and reduce odor. It is anticipated that





there will be little to no environmental impact as any material will degrade and drain into the East Cell. Seepage would be collected in the East Cell sumps and then pumped to the Water Treatment Plant for furtherance.

I trust the above has addressed any areas of concern. Should you have any questions, comments or require further clarification, please do not hesitate to contact me at 767-8646 or e-mail [Alexandra.Hood@debeerscanada.com](mailto:Alexandra.Hood@debeerscanada.com).

Sincerely,  
**DE BEERS CANADA INC.**

A handwritten signature in blue ink that reads "A. Hood".



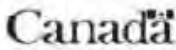
Alex Hood  
Permitting and Environmental Superintendent  
Snap Lake Mine

Copied to: M. Casas (MVLWB)  
T. Covey (AANDC)  
D. White, Z. Liu (SLEMA)  
M. Morapeli, K. McDonald, D. Matchett, D. Raymond (DBC)  
File



DE BEERS CANADA INC.  
SUITE 300, 5101-50<sup>th</sup> AVENUE, YELLOWKNIFE, NT X1A 3S8  
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FIGURE 1: SPILL REPORT 12-012

  		<b>NT-NU SPILL REPORT</b> <small>OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS</small>		<b>NT-NU 24-HOUR SPILL REPORT LINE</b> <small>TEL: (867) 920-8100                      FAX: (867) 873-6024                      EMAIL: spillr@gov.nt.ca</small>	
<b>A</b> REPORT DATE (mmm-dd-w) <b>Jan-20-12</b>		REPORT TIME (hhmm) <b>1830</b>		<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT OR	
<b>B</b> OCCURRENCE DATE (mmm-dd-w) <b>Jan-20-12</b>		OCCURRENCE TIME (hhmm) <b>1430</b>		<input type="checkbox"/> UPDATE # TO THE ORIGINAL SPILL REPORT	
<b>C</b> LAND USE PERMIT NUMBER (IF APPLICABLE) <b>MV2010D0053</b>		WATER LICENCE NUMBER (IF APPLICABLE) <b>MV2001L2-0002</b>			
<b>D</b> GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Snap Lake Mine Sewage Treatment Plant 1</b>		REGION <input checked="" type="checkbox"/> NWT <input type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		REPORT LINE USE ONLY REPORT NUMBER <b>12-012</b>	
<b>E</b> UTM COORDINATES 12V NAD83 EASTING <b>0506342</b> NORTHING <b>7052931</b> LATITUDE <b>63°36'15.584"</b> LONGITUDE <b>110° 52' 19.718"</b>					
<b>F</b> RESPONSIBLE PARTY OR VESSEL NAME <b>De Beers Canada Inc.</b>			RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>c/o Det'on Cho Logistics                      100 Dickens Road Yellowknife, NT. X1A 2P6</b>		
<b>G</b> ANY CONTRACTOR INVOLVED <b>None</b>			CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>		
<b>H</b> PRODUCT SPILLED <b>Grey water - raw sewage</b>		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METERS <b>30 liters</b>		U.N. NUMBER	
SECOND PRODUCT SPILLED (IF APPLICABLE) <b>n/a</b>		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METERS <b>n/a</b>		U.N. NUMBER	
<b>I</b> SPILL SOURCE <b>Sewage line</b>		<b>J</b> SPILL CAUSE DESCRIBE ANY ASSISTANCE REQUIRED <b>No</b>		AREA OF CONTAMINATION IN SQUARE METERS <b>0.25 x 0.25 m</b> HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT <b>Infectious Substance</b>	
<b>K</b> ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <p>Operator was doing a check and noticed a split in the 6" pipe entering the lift station at STP1. No cleanup was initiated as the sewage percolated into the ground through gravel. Lime was applied for disinfection. The spill was due to the pipe shifting and splitting.</p>					
<b>L</b> REPORTED TO SPILL LINE BY <b>Gail Seto</b>		POSITION <b>Sr. Enviro. Coordinator</b>	EMPLOYER <b>De Beers Canada Inc.</b>	LOCATION CALLING FROM <b>Snap Lake</b>	TELEPHONE <b>767-8763</b>
<b>M</b> ANY ALTERNATE CONTACT <b>Alex Hood</b>		POSITION <b>Environmental Superintendent</b>	EMPLOYER <b>De Beers Canada Inc.</b>	ALTERNATE CONTACT LOCATION <b>Snap Lake</b>	ALTERNATE TELEPHONE <b>767-8646</b>
<b>REPORT LINE USE ONLY</b>					
<b>N</b> RECEIVED AT SPILL LINE BY		POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8100
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> LA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN <input type="checkbox"/>		FILE STATUS <input type="checkbox"/> FILE <input type="checkbox"/> CLOSED <input type="checkbox"/>
AGENCY		CONTACT NAME		CONTACT TIME	REMARKS
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

**FIGURE 2: LOCATION SPILL 12-012**

