

Stornoway Diamond Corporation
Spill Response Plan

Spill Response Plan

A spill is classified as the discharge of petroleum products or other dangerous substances into the environment. Potential hazards created by the spill for humans, vegetation, water resources, fish and wildlife vary in severity, depending on several factors, including nature of the material, quantity spilled, location and season. The general response to be followed in the event of a spill is:

- Identify the product* - check container design, warning labels, markings, etc.
- Protect people* - prevent personnel from approaching the site and keep them at a distance sufficiently removed that they will not be injured by, or cause, a fire or explosion
- Stop the flow at the source* - reduce or terminate the flow of product without endangering anyone
- Assess the seriousness of the spill* - evaluate potential dangers of the spill to human health and safety, the aquatic environment, wildlife, ground water, vegetation and other land resources
- Report the spill* - provide basic information such as location of spill, name of polluter, type and amount of material spilled, date and time of the spill and any perceived threat to human health or the environment (complete NWT Spill Report form)
- Clean up the spill* - follow procedures appropriate for the location, environment, and material and time of year

24-Hour Spill Report Line (867) 920-8130 or fax (867) 920-8127
DIAND Water Resources Inspector (867) 975-4298
Environment Canada (Nunavut) (867) 975-4639

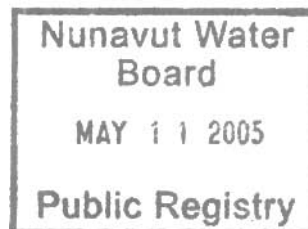
Detailed Response Plan

- (a) *On-site person in charge, management or control of contaminants*

To Be Determined

- (b) *Name and address of employer of personnel described in part (a)*

Stornoway Diamond Corporation
860-625 Howe Street
Vancouver, BC
V6C 2T6



PC	MA
FO	LA
BS	ST
TA1	

BRD	
EXT.	

phone: (604) 331-2259

fax: (604) 668-8366

(c) Description of the facility

Facility – Camp

Locations – Fuel will be stored in the appropriate facility a safe distance from the accommodations and well away (>100m) from water bodies

Size - Fuel stored in sealed 205 litre (45 gal.) steel drums

Storage Capacity – Maximum fuel stored at camp will be 19 drums (3895 litres) of Jet-B and diesel combined, plus 1+ 100lb-propane tanks.

A minor amount of fuel will be stored for no more than four days at the drill site, and removed promptly upon completion of each drill hole. On-site storage will be a safe distance from drilling activities, with fuel stored in sealed steel drums.

Maximum fuel storage will be 4 drums (820L) including Jet-B and diesel, plus 1-100lb propane tank.

(d) Description of the type and amount of potential contaminants normally stored at camp

JET B fuel for the helicopter – 3485 litres (17 drums)

Propane for heating, etc. - One (1) 100 lb. tank

Description of the type and amount of potential contaminants normally stored on-site

JET B fuel for the helicopter – 410 litres (2 drums)

Diesel for the drill – 410 litres (2 drums)

Propane for heating, etc. - One (1) 100 lb. tank

(e) Steps to be taken to report, contain, clean up and dispose of a contaminant in the case of a spill

Preventative Measures

Fuel drums will be monitored for any signs of leakage:

- (i) Immediately after they arrive on-site,
- (ii) Once they have been transported to the designated storage area, and
- (iii) Periodically after that time (i.e. as the stocks are accessed).

Drums will be stored upright on flat stable terrain during the summer to reduce chances of a leak. If available a natural depression situated well away from water bodies will be utilized for storage. The contents of any drum that leaks, or shows the potential to leak, will be transferred by wobble pump to a different drum. With the exception of the container in use, all fuel container outlets will be kept sealed to prevent leakage. On-site equipment (e.g. helicopter) will be refueled at some distance from the main storage facilities to reduce potential damage should a fire occur.

Reporting

- (i) Identify the product - check container design, warning labels, markings, etc.
- (ii) Protect people - prevent personnel from approaching the site and keep them at a distance sufficiently removed that they will not be injured by, or cause, a fire or explosion
- (iii) Stop the flow at the source - reduce or terminate the flow of product without endangering anyone
- (iv) Assess the seriousness of the spill - evaluate potential dangers of the spill to human health and safety, the aquatic environment, wildlife, ground water, vegetation and other land resources
- (v) Report the spill to the 24-Hour Spill Report Line (867) 920-8130 - provide basic information such as location of spill, direction of motion if any, name of contact on-site, type and amount of material spilled, cause of spill, date and time of the spill and any perceived threat to human health or the environment (complete Spill Report form)
- (vi) Report the spill to Stornoway's office in Vancouver
- (vii) Depending on severity of the spill, report to the other appropriate authorities (i.e. Nunavut Water Board, Department of Fisheries and Oceans; Regional Inuit Association)

Containment

Oil spill containment techniques include:

- (i) Earth dams - simple and effective control means for surface and small streams
- (ii) Interceptor trenches - control on land and shallow subsurface seepage
- (iii) Culvert weirs - not applicable
- (iv) Underflow dams - effective in narrow ditch or stream
- (v) Net and absorbent barriers - effective in tundra area and slow moving water
- (vi) Containment booms - commercial product for large bodies of water
- (vii) Space spraying or 'herding' - using a very fine water spray as a means of cleaning vegetation, shorelines, lake surface, etc.
- (viii) Absorbent materials - include fine sand, soil or snow; commercial sorbents include sheets, rolls, pillows and booms that can be rapidly deployed with no preparation

Clean up

The most likely spill scenario is the partial loss of petroleum products from one of the 205 l (45 gal.) drums. Drums will be checked on arrival in camp, after transfer to the designated storage facility and periodically thereafter. Contents of any leaking drum will be immediately transferred via wobble pump to an empty, leak free drum. It is unlikely that more than one drum will leak at any time. Any spills will be contained, and pumped into empty barrels.

Disposal

No organic soils are present at the proposed storage site, and if possible, any sands and gravels contaminated by a significant spill of petroleum products will be excavated by hand, incinerated to remove hydrocarbons, and returned to their natural site.

Consultations:

Contingency Planning and Spill Reporting in the NWT - A guide to the new regulations, GNWT, 8pp. June, 2002.

Oil Spill Containment and Clean up Techniques - 22 minute instructional video prepared by NWT Renewable Resources Pollution Control Division, 1988.

Report All Spills - Environment Series, GNWT Renewable Resources, Pollution Control Division, 1988.

Spill Containment and Clean-up Course, GNWT Renewable Resources, Pollution Control Division, 1991, 74pp.

Spill Contingency Planning and Reporting Regulations - Environmental Protection Act - Northwest Territories, July 22, 1993, 11pp.

Spills, Our Record in the Northwest Territories - Environment Series, GNWT Renewable Resources, Culture and Communications, 1990

Hazardous Substance Specialist
Environmental Protection Division
Renewable Resources
Government of the NWT
600, 5102-50th Ave.
Yellowknife NWT
X1A 3S8

telephone: (867) 873-7654
facsimile: (867) 873-0221

Updated: May, 2004