

SPILL CONTINGENCY PLAN CENTRAL NUNAVUT PROJECT

***Created: March 2006
Effective: March 23, 2006 to February 28, 2008***

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Project Introduction

The following plan applies to the 2006 and 2007 Central Nunavut Exploration Program. The 2006-2007 program will be a small exploration program with a crew of 3 to 5 people. The crew will be mobile and low impact mainly based from towns (including Arviat and Baker Lake) and occasionally from small, portable field tent camps for 3-5 day stretches. Camp work will comprise no more than 10% of the total work performed over the field season.

Work on Crown Land will include field mapping, prospecting, till sampling and possible drilling should suitable targets be identified.

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

Detailed Report – A detailed report of the spill (including GPS location) must be submitted to the DIAND Water Resources Inspector less than 30 days after the spill is reported

Detailed Response Plan

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

To Be Determined – Stornoway Diamond Corporation

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

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

phone: (604) 331-2259
fax: (604) 689-5041

(c) Description of the facility

Facility –Fly Camp (accommodating 3-5 persons for periods of no more than 3 -5 days)

Locations –Fuel will be stored in appropriate facilities 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 – Fuel requirements will include Jet-A Fuel (three, 205 litre steel drums), Diesel (one, 205 litre steel drum), Gasoline (one, 5 gallon plastic jerry can) and Propane (one, 100 lb tank)

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

JET B fuel for the helicopter –615 litres (3 drums)
Propane for heating and cooking purposes - 100 lbs (1 tank)
Diesel - 205 litres (1 steel drum)
Gasoline – 5 gallons (1 plastic jerry can)

Description of the type and amount of potential contaminants normally stored at drill 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.

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

Spill Kit Contents

On-site equipment available for employees at each fly camp and drill site will be a Spill Kit containing the following items:

- 10 absorbent pad 11" x 19"
- 1 epoxy stock/repair putty
- 4 absorbent socks 3" x 48"
- 1 pair of nitrile gloves
- 1 36" x 36" neoprene drain cover
- 1 pair safety goggles
- 1 disposal bag with ties – 26" x 36"
- 1 nylon bag

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, 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.

Training

All employees and contractors are required to be trained in proper fuel handling.

All employees and contractors will be oriented upon arrival to the site as to the location and nature of possible spill hazards, as well as the location, content, and usage of spill kits, and locally available materials to control a spill. A brief exercise will be conducted after orientation to clearly outline the spill response protocol, and ensure the employee's comfort with this plan.

SPILL REPORTING PROCEDURE

1. Immediately report the spill to the following agencies:
 - 24 hour Spill Report Line (867) 920-8130
 - Environment Canada (24 hour pager) (867) 920-5131
 - Environment Canada (867) 975-4644
 - DIAND Water Resources Inspector (867) 975-4298
 - Department of Fisheries and Oceans –
Nunavut Regional Office (867) 979-8000
2. Report the spill to Stornoway Diamond Corporation's office in Vancouver *
 - Robin Hopkins – Exploration Manager
 - Nicole Westcott - Land Administrator

**The on-site person in charge will have a confidential 24 hour contact number for a representative of Stornoway Diamond Corporation's management team throughout the field season.*

3. Fill out the NWT Spill Report Form (as it appears in Appendix I of this plan) which is to be submitted to the DIAND Water Resources Inspector no later than 30 days after the occurrence of the spill.

Emergency Contact Information

24-Hour Spill Report Line Phone Number	(867) 920-8130
24-Hour Spill Report Line Fax Number	(867) 920-8127
DIAND Water Resources Inspector	(867) 975-4298
Environment Canada (Nunavut)	(867) 975-4644
Environment Canada 24 Hour Emergency Pager Number	(867) 920-5131
Department of Fisheries and Oceans – Nunavut Regional Office	(867) 979-8000
Indian and Northern Affairs Canada, Land Administration Minister – Nunavut Regional Office	(867) 975-4280
Nunavut Water Board	(867) 360-6338
Kitikmeot Inuit Association	(867) 982-3310
Kitikmeot Hunters' and Trappers' Association	(867) 982-4207
Baker Lake Health Centre/Nursing Station	(867) 793-2816
RCMP Baker Lake Detachment	(867) 793-0123

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

Appendix 1
Spill Report Form



NWT SPILL REPORT

(Oil, Gas, Hazardous Chemicals or other Materials)

24 – Hour Report Line
Phone: (867) 920-8130
Fax: (867) 873-6924

A Report Date and Time		B Date and Time of spill (if known)		C <input type="checkbox"/> Original Report <input type="checkbox"/> Update no. _____		Spill Number	
D Location and map coordinates (if known) and direction (if moving)							
E Partly responsible for spill							
F Product(s) spilled and estimated quantities (provide metric volumes/weights if possible)							
G Cause of spill							
H Is spill terminated? <input type="checkbox"/> yes <input type="checkbox"/> no		I If spill is continuing, give estimated rate		J Is further spillage possible? <input type="checkbox"/> yes <input type="checkbox"/> no		K Extent of contaminated area (in square meters if possible)	
L Factors effecting spill or recovery (weather conditions, terrain, snow cover, etc.)				M Containment (natural depression, dikes, etc.)			
N Action, if any, taken or proposed to contain, recover, clean up or dispose of product(s) and contaminated materials							
O Do you require assistance? <input type="checkbox"/> no <input type="checkbox"/> yes, describe:				P Possible hazards to person, property, or environment; eg: fire, drink water, fish or wildlife			
Q Comments or recommendations						FOR SPILL LINE USE ONLY	
						Lead agency	
						Spill significance	
						Lead Agency contact and time	
						Is this file now closed? <input type="checkbox"/> yes <input type="checkbox"/> no	
Reported by		Position. Employer, Location				Telephone	
Reported to		Position. Employer, Location				Telephone	