



STRONGBOW
exploration inc.

Suite 800 - 625 Howe Street
Vancouver, BC, Canada V6C 2T6
tel: 604.668.8355 fax: 604.668.8366
www.strongbowexploration.com

Spill Contingency Plan Anialik River Project

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Effective: July 2006 to September 2008**

Table of Contents

Project Introduction	1
Spill Response Plan	1
Detailed Spill Response Plan	2
- <i>On-site person in charge</i>	2
- <i>Description of Facility</i>	2
- <i>Preventative Measures</i>	3
- <i>Reporting</i>	3
- <i>Containment</i>	4
- <i>Clean Up</i>	4
- <i>Disposal</i>	4
- <i>Training</i>	4
Emergency Contact Information	5
Consultations	6
Appendix 1 – Spill Report Form	7
Appendix 2 – Camp Schematic	8

Project Introduction

The following plan applies to the Anialik River Project operated by Strongbow Exploration Inc. This program, located in the West Kitikmeot Region of Nunavut, approximately 180km southeast of Kugluktuk, consists of both Inuit Owned Lands (surface and subsurface rights) and mineral claims on Crown Lands.

A two phase exploration program is tentatively planned for operation between early July and September. The first phase will consist of prospecting, mapping, soil sampling, and channel sampling, and will be conducted from a series of fly camps based on Anialik Lake, Turtle Lake, and Rush Lake. This phase will be operated by four to six geologists over a period of approximately four to six weeks. Fuel requirements for this portion of the program will be limited to two or three 20lb propane cylinders to be used primarily for cooking and heat in an emergency. No diesel or Jet B will be required at the fly camp sites.

Phase two of the program will be contingent upon favourable results which would warrant a drill program. Should a drill program be carried out the crew would be based out of the established Rush Lake camp and consist of 5 drillers, 2 geologists, 1 cook/first aid attendant, and 1 helicopter pilot. This program (should it be carried out) would be expected to run approximately 6 weeks between the months of July and September.

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

Robert Campbell, Strongbow Exploration Inc. – *camp phone to be determined*

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

Strongbow Exploration Inc.
800-625 Howe St., Vancouver, B.C.
V6C-2T6
phone: (604) 668-8355
fax: (604) 668-8366

(c) Description of the facility

Facility – 9-12 Person Camp (Rush Lake 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 at above ground facility in sealed 205 litre (45 gal.) steel drums

Storage Capacity – Maximum fuel stored at camp will be 40 drums (8200 litres) of Jet-B and diesel combined, plus two (2) 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) of diesel and 2 drums (410L) of Jet-B, plus one (1) 100lb propane tank.

(d) Description of the type and amount of potential contaminants normally stored the Rush Lake camp during occupation:

JET B fuel for the helicopter – 4100 litres (20 drums)
Propane for heating, etc. - Two (2) 100 lb. tanks
Oil – Several Cases of 4 Cycle Engine Oil
Diesel - 4100 litres (20 drums)
Gasoline for water pump – 25 litres

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 - 820 litres (4 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 both Strongbow Exploration Inc'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

On-site equipment available for employees includes:

Spill Kit (containing 1 20L Poly containment pail, 12 or more 16" x 20" oil absorbent pads, 2-3" by 48" oil absorbent socks, 1 heavy duty disposal bag (6 mil), 1 pair Chemi-pro gloves and 3 lbs of All Purpose absorbent.) An extra supply of (approx. 100) 16" x 20" oil absorbent pads will be kept in the "Dry" tent in case of emergency.

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.

Training

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 the plan.

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
Kitikmeot Inuit Association	(867) 982-3310
Kitikmeot Hunters' and Trappers' Association	(867) 982-4207
Kugluktuk Hunters' and Trappers' Association	(867) 982-4908
Bay Chino (Umingmaktok) Hunters' and Trappers' Association	(867) 983-2426
RCMP, Kugluktuk Detachment	(867) 982-0123
Kugluktuk Health Center (Nursing Station)	(867) 982-4531
Stanton Yellowknife Hospital	(867) 669-4111

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	

Appendix 2

Figure 1: Camp Schematic

