

Canadian Wildlife Service (Seabirds)
Prince Leopold Island, Nunavut
Spill Containment Plan

Spill Containment Plan

The general response to be followed in the event of the spill is:

1. Protect the safety and lives of anyone in the spill area.
2. Isolate or remove any potential sources of ignition (if safe and possible).
3. Locate the product and source of the spill – check container design, warning labels, markings etc., consult MSDS sheet.
4. Stop the flow at the source – reduce or terminate the flow of product without endangering anyone.
5. Assess the seriousness of the spill – evaluate potential dangers of the spill to humans, wildlife, aquatic environment, ground water, vegetation and other land resources.
6. Report the spill – provide information such as location of spill, name of polluter, type and amount of material spilled, date and time of spill and any perceived threat to human health or environment. (Complete a Nunavut Spill Report form)
7. Control access to the area until assistance arrives.
8. Attempt to contain spread of spill, using available equipment and materials.

24- Hour Spill Report Line (867) 920-8130 or fax (867) 920-8127
Environment Canada Duty Officer 1-866-845-6037

Detailed Response Plan

1. On-site person in charge, management or control of contaminants

Primary contact: Mark Mallory
Phone: (867-975-4637/field station phone #)

Secondary contact: Mia Pelletier –
Phone: (867-975-4636/field station phone#)

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

Canadian Wildlife Service
Environment Canada
P.O. Box 1714, Qimugjuk Building 969, Iqaluit, NU, X0A 0H0
Phone: Moosie Quairiq (867) 975-4642
Fax: (867) 975-4645

3. Description of the facility

Facility – two buildings (living quarters for 4 people + outhouse)

Locations – Prince Leopold Island is located off the Northeastern tip of Somerset Island. Locations of field station facilities are as follows:

1. Cabin - 74°01'05" N, 89°58'03" W
2. Sump - 74°01'05" N, 89°58'14.7" W (approx. 100 m to the west of the cabin)

Total estimated freshwater (snow-melt) usage at Prince Leopold Island field station: 10 L/day for up to two months.

Fuel will be stored at the Prince Leopold Island field station on a naturally vegetation free site located a safe distance from buildings and well away (>100m) from water bodies.

Size – Fuel stored above ground includes one (1) 200 litre sealed steel kerosene drum and one (1) sealed 205 litre (45 gal.) steel drum of gasoline. Drums will be placed in Insta-berms (<http://www.spillsupply.com/InstaBermsCon.html>) for secondary containment.

Storage Capacity – The total amount of fuel stored at the monitoring station will 1 drum of gasoline and 1 drum of kerosene.

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

Propane for cooking, etc. – One (1) 20 lb. and two (2) 100 lb. tanks

5. Steps to be taken to report, contain, clean up and dispose of a contaminant in the case of a spill.

Preventative Measures/Early Detection

Fuel drums will be monitored for any signs of leakage:

1. Immediately after they arrive on-site,
2. Once they have been transported to the designated storage area, and
3. Regularly after that time

Drums will be stored on their sides, with bungs at 3 and 9 o'clock positions on flat stable terrain to reduce chances of a leak. An Insta-berm will be under the cache to further mitigate chance of a leak. The contents of any drum that leaks, or shows the potential to leak, will be transferred by wobble pump or similar device to a different drum. With the exception of the container in use, all fuel container outlets will be kept sealed to prevent leakage.

Reporting

1. Identify the product – check container design, warning labels, markings etc.
2. 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
3. Stop the flow at the source – reduce or terminate the flow of product without endangering anyone
4. 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
5. 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 – attached)
6. Report the spill – to Environment Canada's Duty Officer
Depending on the severity of the spill – report to the other appropriate authorities (i.e. Nunavut Water Board, Department of Fisheries and Oceans; Regional Inuit Association)

Containment

Spill containment techniques include:

1. Earth dams - simple and effective control means for surface and small streams
2. Absorbent materials – include fine sand, soil or snow, sorbent blankets

Clean Up

The most likely spill scenario is the partial loss of fuel from one of the drums. Drums will be checked on arrival at the station, after transfer to the designated storage facility and periodically thereafter. Contents of any leaking drum will be immediately transferred by 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.

One spill kit will be located on-site (including fuel transfer pump, absorbent materials, bung wrench, shovels). Contaminated material will be transported to an approved disposal or recovery site. Shovels will be available to recover and isolate any contaminated material.

Disposal

Organic soils, sands and gravels contaminated by a significant spill of petroleum products will be excavated by hand.