



To: The Nunavut Water Board Object: Spill contingency Plan

Date plan prepared: June 14th 2010

Effective period: March 8th – 31st 2011 (date of planned field work)

MONITORING ARCTIC TEMPERATURE AND SNOW COVER TRENDS USING SATELLITE REMOTE SENSING

The scientific project will be located on the Barnes Ice Cap on Baffin Island. Our research group plan on setting up a temporary camp near the summit plateau. The following fuel will be used only for generator and heating purposes: gasoline and kerosene. About 100L of gasoline will be necessary for our two week long project, and about 20L of kerosene. The gasoline will be contained in fuel drums whereas smaller sealed containers are to be used for the kerosene. This document outlines the organization of the response, the plan for initial response, reporting procedures in the event of a spill, and spill kits maintained on site.

Response Organization:

It the event of a spill, the first person on site will immediately try to contain the spill, and immediately contact a team member to assist in any way. We will have a crew of 6 scientists, one of them being the chief scientist. It will be the chief scientist's responsibility to:

- evaluate the scale of the spill;
- proceed to cleaning with available on-site spill kit;
- report the spill according to NT-NU spill report procedure

Initial Response Plan:

The first person at the site will ensure safety of himself and those near the site. Next he will notify the chief scientist about the spill.

Gasoline:

If possible and safety permits, stop the flow and eliminate ignition sources. Gasoline forms vapors that can ignite and explode. No smoking is permitted when responding to a gasoline spill. Use particulate sorbent material to soak up the spill. All contaminated water, snow/ice, soils, clean up supplies, and absorbent materials will be stored in closed, labelled containers. The containers will be stored in ventilated areas away from incompatible materials. Electrically ground all containers and transporting equipment.

Kerosene:

If possible and safety permits, eliminate all ignition sources. All contaminated water, snow/ice, soils, clean up supplies, and absorbent materials will be stored in closed, labelled containers. The containers will be stored in ventilated areas away from incompatible materials. Electrically ground all containers and transporting equipment.

Reporting Procedure:

- 1. Fill out "SPILL REPORT" interactive .pdf form as completely as possible before making the report.
- 2. When transiting back to Iqualuit at the end of the project, follow up by sending a copy of the spill Report to FAX # (867) 873-6924

Given the small amount of fuel implicated in an unlikely spill from our project, we believe those steps are sufficient in terms of reporting.

Spill Kits:

We will have one spill kit available in the field camp (8 gallon). Fuel will only be transferred by sealed air-pump at the camp itself. Spill kit details:

OILUP SORBENT Oil-Only Haz-Mat Spill Kit includes:

- 10 socks,
- Nitrile gloves,
- SilverShield® gloves,
- Goggles,
- two disposal bags,
- 20-gal. lab pack,
- Safety and Compliance Directory,
- Spill Response Guide and DOT label pkg.

Scientific contact and project manager:

Alexandre Langlois, Ph.D.
Chercheur Post Doc - Post Doc Fellow
Centre d'Applications et de Recherches en Télédétection (CARTEL)
Département de Géomatique Appliquée
Université de Sherbrooke
Sherbrooke, Québec, J1K 2R1
Local A4-280

Tel.: 819-821-8000 ext.: 61904

Fax: 819-821-7944

A.Langlois2@USherbrooke.ca