



Spill Contingency Plan

Project: Paleoenvironmental reconstruction of the Houghton impact structure and surrounding terrains over the past 39 Million years

Date Prepared: 18th May 2010.

Prepared by: Dr. G. R. Osinski, University of Western Ontario (full contact information below).

The University of Western Ontario will establish a temporary field camp along the Houghton River Valley within the Houghton impact structure, Devon Island, Nunavut. The following types of fuel will be used on site: aviation fuel (Jet-B, stored in standard 205L sealed fuel drums), gasoline (stored in standard 205L sealed fuel drums and CSA approved 19L jerry cans) and propane (stored in CSA approved 50 lb pressurized cylinders). 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:

The first person on the site will (1) assess the spill situation, (2) immediately contact the Camp Manager (Dr. G. R. Osinski) and provide all information about the spill. Upon receiving this information, the Camp Manager will recommend a course of action according to the following procedure:

- (1) Evaluate the scale of the spill.
- (2) Activate the initial response plan.
- (3) Assemble a spill response team and directs them in implementing the spill response plan including containment, recovery, remediation, and disposal operations.
- (4) Inform the Polar Continental Shelf Project (PSCP) Resolute Bay as soon as possible to report the spill and provide initial incident details.
- (5) Gather relevant information and submits a detailed spill report to the applicable regulatory agencies no later than thirty (30) days after the initial reporting of the spill.

Initial response plan:

The first person at the site will first ensure their own personal safety and those near the site. Next he/she will notify the Camp Manager about the spill.

Gasoline

If possible, and safety permits, stop the flow and eliminate ignition sources. Gasoline forms vapours 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, labeled containers. The containers will be stored in ventilated areas away from incompatible materials. Electrically ground all containers and transporting equipment.

The University of Western Ontario

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Aviation Fuel

If possible and safety permits, stop the flow and eliminate ignition sources. Aviation fuel forms vapors that can ignite and explode, so no smoking is permitted when responding to an aviation fuel 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, labeled containers. The containers will be stored in ventilated areas away from incompatible materials. Electrically ground all containers and transporting equipment.

Propane

If possible and safety permits, eliminate all ignition sources. No smoking is permitted when responding to a propane release. Do not attempt to contain or remove release. No disposal is required, as it cannot be contained once it has been released.

Reporting Procedure:

- (1) Fill out the "SPILL REPORT" form as completely as possible before making the report.
- (2) Report IMMEDIATELY to Yellowknife using the 24-hour Spill Report Line (1-867-920-8130).
- (3) Where FAX is available, follow up by sending a copy of the Spill Report to fax # 1-867-873-6924.
- (4) DIAND's Water Resources Inspector (1-867-975-4298) and INAC (Peter Kusugak, 1-867-975-4295 or 24-hour Emergencies Pager, 1-867-222-1984) should also be notified.

Spill Kits:

We will have spill kits available in the field camp. Each kit will be inspected by the Camp Manager on a regular basis to ensure it contains the following:

- 1 package of 10 disposable 5 mil polyethylene bags.
- 10 lb. Bag of particulate.
- 1 bail of 17' x 19' x absorbent sheets (100 sheets/bail).
- 2 PVC oil resistant gloves.
- 2 respirators.
- 2 pairs of splash protective goggles.

Contacts:

DIAND Water Resources: 1-867-975-4298.

Environment Canada 1-867-975-4636.

INAC Environment and Contaminants 1-867-975-4295, 24-hour Emergencies Pager, 1-867-222-1984.