

851791 NWT Ltd o/a Rowe's Construction & Ft. Simpson
Bulk Fuel Services

Generic Spill Contingency Plan - Site: Gravel Quarry Hwy 1 Km 191.6

Spill contingency plans and spill kits and are to be kept in all company equipment / vehicles. These contingency plans include initial contact numbers in the event of an incident. Supervisors with HAZWOPER training are also listed. Upon hire all employees are given a company & safety orientation which includes training / review on these Emergency response procedures including incidents involving spills or leaks. These orientations are reviewed annually. Daily tailgate safety meetings and Job Hazard assessments are also part of the orientation and daily safety procedures. For the purposes of work at the gravel quarry at Hwy 1 km 191.6, no fuel will be stored at this site. All refueling will be done using tidy tanks mounted on pickup trucks. These tanks are equipped with secondary containment systems.

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851791 NWT Ltd o/a Rowe's Construction
& Ft. Simpson Bulk Fuel

Generic Spill Contingency Plan

Address:	Hay River 25 Studney Drive Hay River, NT X0E 0N0 Ph: (867) 874-3243	Ft. Simpson Box 346 Ft. Simpson, NT X0E 0N0 Ph: (867) 695-3243
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Effective date: Nov.10, 2008

Last Revision: January 11, 2015

Mark Rowe, Mike Rowe Sr., Jack Rowe, Owen Rowe, Ronald Schaub and Mike Rowe Jr. are responsible for emergency response for any spills that involves any of Rowe's Construction equipment or operations. Supervisors will initiate control on/off site projects they are in charge of.

The emergency response plan is activated by phoning one of the above during working or after hours.

Initial Contact list: Area Code (867)

Rowe's Construction	<u>Office</u>	<u>After Hours</u>	<u>Cell</u>
1) Ronald Schaub (Hay River)	874-3243	874-4818	876-1049
2) Mark Rowe (Hay River)	874-3243	874-4455	875-8442
3) Mike Rowe Sr. (Hay River)	874-3243	875-3787	875-2616
4) Jack Rowe (Hay River)	874-3243	874-4469	875-2812
5) Owen Rowe - (Ft. Simpson area)	695-3243	695-2889	445-8462
6) Mike Rowe Jr. - (Ft. Simpson area)	695-3243	695-3960	875-2809

24 hours – company emergency 867-874-3243 after hours automated message lists emergency contact number.

Company certified HAZWOPER team members:

	Cell number:
	Area code (867)
1. Lyndon Kipling	875-7295
2. Earl Dumas	875-7030
3. Louis Dumas	-
4. Rodney Burrows	875-2806
5. Mike Rowe Jr.	875-2809

Outside Agencies:

NWT Environmental
24 Hour Spill Report Line.

Ph: (867) 920-8130
Fax : (867) 873-6924

Dangerous Goods - spills, accidents/incidents:

- CAUTEC 24hr. emergency guidance

Phone#

(613) 996-6666

Emergency Resources:

Local Resources:

Ft. Simpson

	<u>Office</u>	<u>After Hours</u>
- Simpson Air – charter air craft	(867) 695-2505	(867) 695-2501
- Enbridge Pipeline	(867) 695-3040	(867) 695-2278 (Mark Gerlock)
- Great Slave Helicopter (day light hrs)	(867) 695-2326	same, leave message
- Hospital	(867) 695-7000	same
- RCMP	(867) 695-1111	same
- Fire Dept.	(867) 695-2222	same
- NWT Power Corp	(867) 695-7100	1-800-661-0855

Hay River

	<u>Office</u>	<u>After Hours</u>
- Midnight Petroleum 24hr.	(867) 874-2201	same
- Hospital	(867) 874-7000	same
- RCMP	(867) 874-1111	same
- Fire Dept.	(867) 874-2222	same
- NWT Power Corp.	(867) 874-5200	1-800-661-0855

Yellowknife

- Midnight Petroleum	(867) 874-2201
- Hospital	(867) 669-4111
- Ambulance	(867) 873-2222
- RCMP	(867) 669-1111
- Fire Dept.	(867) 873-2222
- NWT Power Corp.	1-800-661-0855

High Level Area

(This Call would be made from Rowe's Senior Management)

Big Eagle Services - Confirmed contact with Don at 1-800-227-6392. Aug.12.2013
Calgary, Alberta T2C 2S8
Tel +1 (403) 236-4471
Tel +1 (800) 227-6392 - 24hr.
Fax +1 (403) 236-4576

Response Organization:

Spill or release identified by staff or public

Assess personal safety and safety of others. Barricade area affected.

Identify Product

Notify supervisor, management or safety (via 2 way radio. In vehicles or office, if no phone or cell communication is available)
If the above are not available notify office admin, operators, and labour crew.

Minor Spill (under guideline levels)	Major Spill (over guideline levels)
Protect yourself (PPE). Stop the spill if safely possible	Protect yourself (PPE). Stop the spill if safely possible

Ensure spill does not flow towards water sources. Establish berm if required. Place spill absorbents.	Ensure spill does not flow towards water sources. Establish berm if required. Place spill absorbents.
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Keep track of small spills in company files for records and inspector reference.	Ensure area is barricaded.
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Recover as much hydrocarbons/contaminates as possible and keep area contained until clean up is completed.	Notify NWT 24-hr spill line at Ph: 867-920-8130. Supervisor or safety will make the call and forward report.
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Notify office during regular office hours. Investigation will commence.	Recover as much hydrocarbons/contaminates as possible and keep area contained until clean up is completed.
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Keep track of spills in company files

Potential environmental impacts of spill

Overall for the hazardous material discussed below impacts are lower during the winter as snow is a natural sorbent and ice forms a barrier limiting or eliminating soil contamination, thus spills can be more readily recovered when identified and reported.

Gasoline

Environmental impacts: Gasoline may be harmful to wildlife and public. It is not readily biodegradable and has the potential for bioaccumulation in the environment. Gasoline is quick to volatilize. Spills are to be barricaded and cleaned up immediately.

Diesel fuel

Environmental impacts: Diesel may be harmful to wildlife and public. It is not readily biodegradable and has the potential for bioaccumulation in the environment. Diesel burns slowly

and thus risk to the environment is reduced during recovery as burn can be readily contained compared with volatile fuel.

Procedures for initial action:

- Ensure safety of all personnel
- Assess spill hazards and risk
- Remove all sources of ignition
- Stop spill if safely possible e.g. shut off pump, replace cap, tip drum upward, patch leaking hole. Use the contents of the nearest spill kit to aid in stopping the spill if safe to do so. Tyvek suits and chemical gloves are located in the office and should be worn immediately if there is any risk of being in contact with hydrocarbons.
- No matter what the volume is, notify supervisor, safety or office administrator via 2 way radio.
- Contain the spill – use the contents of the spill kit to place sorbent material on the spill, or use shovel to dig dike to contain spill. Methods will vary depending on the nature of the spill.

Procedures for containing and controlling a spill (e.g. on land, water, snow. Etc.)

- Initiate spill containment by first determining what will be affected by the spill.
- Assess speed and direction of spill and cause of movement (wind, slope, puddles of water)
- Determine best location for containing spill
- Have a contingency plan ready in case spill worsens beyond control or if the weather or topography impedes containment.
- Keep a log of all information received during the incident
- If on any water sources (pond, lake, river) Drill a hole downstream if ice thickness permits it safe (15cm min) and place absorbents in the hole for monitoring.

Specific spill containment methods for land, ice, and snow are outlined below.

1) Containment of spill on land:

Spills on land include on rock, gravel, soil and/or vegetation. It is important to note that soil is a natural sorbent, thus spills on soil are generally less serious than spills on water as contained soil can be more easily recovered. Generally spills on land occur during the late spring, summer or early fall when snow is at a minimal.

Dykes

Dykes can be created using soil surrounding a spill on land. These dykes are constructed around the perimeter or down slope of the spill. A dyke needs to be built up to a size that will ensure containment of the maximum quantity of fuel that may reach it. A plastic tarp can be placed on and at the base of the dyke such that fuel can pool up and subsequently be removed with sorbent material or by pumping into barrels or tank. If the spill is migrating very slowly a dyke may not be necessary and sorbents can be used to soak up fuels before they migrate away from the source of the spill.

Trenches

Trenches can be dug to contain spills as long as the top layer of soil is thawed. Shovels pick axes, loader, dozer or hoe can be used depending on the size of trench required. It is recommended that the trench be dug to the bed rock or permafrost, which will then provide

a containment layer for the spilled liquid. Liquid can then be recovered using a pump or sorbent materials.

2) Containment of spills on ice:

Spills on ice are generally the easiest spills to contain due to the predominantly impermeable nature of the ice. For small spills, sorbent materials are used to soak up spilled liquid. Remaining contaminated ice/slush can be scraped and shovelled into plastic bag or barrel. However, all possible attempts should be made to prevent spills from entering ice covered waters as no easy method exists for containment and recovery of spills if they seep under ice.

Dykes

Dykes can be used to contain fuel spills on ice. By collecting surrounding snow, compacting it and molding it to form a dyke down slope of the spill, a barrier is created thus helping to contain the spill. If the quantity of spill is fairly large, a plastic tarp or poly can be placed over the dyke such that the spill pools at the base of the dyke. The collected fuel can then be pumped into barrels or collected with sorbent material.

Trenches

For significant spills on ice, trenches can be cut into the ice surrounding and/or down slope of the spill such that fuel is allowed to pool in the trench. It can then be removed via pump into barrels, collected with sorbent materials, or mixed with snow and shovelled into barrels or bags.

Burning

Burning should only be considered if the other approaches are not feasible, and is only to be undertaken with the permission of the INAC or lead agency inspector.

3) Containment of spills on snow:

Snow is a natural sorbent, thus as with spills on soil, spilled fuel can be more easily recovered. Generally, small spill on snow can be easily cleaned up by raking and shovelling the contaminated snow into plastic bags or empty barrels.

Dykes

Dykes can be used to contain fuel spills on snow. By compacting snow down slope from the spill, and mounding it to form a dyke, a barrier or berm is created thus helping to contain the spill. If the quantity of spill is fairly large, a plastic tarp can be placed over the dyke such that the spill pools at the base of the dyke. The collected fuel/snow mixture can then be shovelled into barrels or bags, or collected with sorbent materials.

Procedure for transferring, storage, and managing spill related wastes

In most cases, spill cleanups are initiated at the far end of the spill and contained moving towards the center of the spill. Sorbent socks and pads are generally used for small spill clean up. A vacuum truck or pump with attached fuel transfer hose can suction spills from leaking containers or large accumulations on land or ice, and direct these larger quantities into empty drums. Hand tools such as cans, shovels, and rakes are also very effective for small spills or hard to reach areas. Heavy equipment can be used if deemed necessary, available on site and can be initiated upon notice of spill.

Used sorbent materials are to be placed in plastic bags for future disposal. All materials mentioned in this section are available in the spill kits located on site. Following clean up, any tools or equipment used will be properly washed and decontaminated, or replaced if this is not possible.

For most of the containment procedures outlined, spilled petroleum products and materials used for containment will be placed into empty waste oil containers and sealed for proper disposal at an approved disposal facility.

Procedures for restoring affected areas:

Once a spill of reportable size has been contained, Rowe's Construction will consult with INAC or lead agency Inspector assigned to the file to determine the level of cleanup required. The Inspector may require a site specific study to ensure appropriate clean up levels are met. Criteria that may be considered include natural biodegradation of oil, replacement of soil and renegotiation.

Resource Inventory

Spill kits are located on site (size varies) and reviewed with crew members regularly. Personal Protective Equipment is located in office. Heavy Equipment, shovels, rakes, poly are located on site.

Contents of spill kits, but not limited to:

20L pail:

- 15 hydrocarbon absorbent pads
- 2 absorbent socks (3" x 48")
- 1 plug and dyke (10oz jar)
- 3 heavy duty yellow disposal bags (33"x35"x6mil)
- 2 pair of nitrile gloves
- 2 pairs of plastic safety goggles
- 1 spill clean-up instruction sheet

220L/205L mobile facility spill response kit

- 100 hydrocarbon absorbent pads
- 10 absorbent socks (3"x 48")
- 1 plug in dyke (1lb.jar)
- 8 heavy duty disposal plastic bags (33"x45"x 6mil)
- 2 pair of nitrile gloves
- 1 spill cleanup instructions
- Neoprene storm drain cover (36"x36"x1/8")

Additional supplies: Hydrocarbon absorbent pads, socks, tyvek coveralls, goggles, caution tape, caution fence, rebar, rubber boots and gloves, respirators, shovels, rakes, floor dry, 6mil disposal bags, labour crew, pick ups, radios, flaggers, traffic control signage, portable radios

Earth moving equipment:

- Dozers
- Loaders (small and large)
- Back hoes (small and large)
- Vacuum trucks
- Body Jobs and trailers
- Picker
- Fuel Transfer body job trucks and pup

Spill Reporting Requirements:

The NWT Spill Contingency Planning and Reporting Regulations Require that if a spill occurs it must immediately be reported to the NWT 24 hour spill report line (depending on quantity, location and type spilled) by calling (867) 920-8130. Only one call is required, since the 24 hour spill report line will inform all government agencies, and they will decide among themselves which will be the lead agency for that particular incident. Call 24hr spill line if you're unsure of reporting requirements.

The report information requirements are contained in the following table.

- 1) Date and time of spill: _____

- 2) Location of spill: _____

- 3) Direction Spill is moving: _____

- 4) Name and phone # of contact person close to spill: _____

- 5) Type and quantity of spill: _____

- 6) Cause of spill: _____

- 7) Has the spill been stopped: _____

- 8) Extent of contaminated area: _____

- 9) Action taken to contain, recover, clean up, and dispose of contaminant: Name, address of person reporting spill: _____

- 10) Name of person in charge, management or control of products at time of spill: _____

11) Is assistance required? If so what? _____

12) Hazard to person or property or environment- Fire, Drinking water. Threat to fish or wildlife: _____

13) Comments and/or Recommendations: _____

14) Reported to and date: _____

A formal Incident/Accident Investigation will have to be filled out and submitted to management within 24hrs.

Rowe's Construction Generic Spill Contingency Plan

Mike Rowe Jr.
HSE Director

Date: _____

24hr - Spill Report



NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH - DAY - YEAR		REPORT TIME		<input type="checkbox"/> ORIGINAL SPILL REPORT OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____
	B OCCURRENCE DATE: MONTH - DAY - YEAR		B OCCURRENCE TIME			
C	LAND USE PERMIT NUMBER (IF APPLICABLE)			WATER LICENCE NUMBER (IF APPLICABLE)		
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION				REGION <input type="checkbox"/> NWT <input type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
E	LATITUDE DEGREES MINUTES SECONDS			LONGITUDE DEGREES MINUTES SECONDS		
F	RESPONSIBLE PARTY OR VESSEL NAME		RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION			
G	ANY CONTRACTOR INVOLVED		CONTRACTOR ADDRESS OR OFFICE LOCATION			
H	PRODUCT SPILLED		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES		U.N. NUMBER	
	SECOND PRODUCT SPILLED (IF APPLICABLE)		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES		U.N. NUMBER	
I	SPILL SOURCE		SPILL CAUSE		AREA OF CONTAMINATION IN SQUARE METRES	
J	FACTORS AFFECTING SPILL OR RECOVERY		DESCRIBE ANY ASSISTANCE REQUIRED		HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT	
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS					
L	REPORTED TO SPILL LINE BY	POSITION	EMPLOYER	LOCATION CALLING FROM	TELEPHONE	
	M ANY ALTERNATE CONTACT	POSITION	EMPLOYER	ALTERNATE CONTACT LOCATION	ALTERNATE TELEPHONE	
REPORT LINE USE ONLY						
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130	
	LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME		CONTACT TIME	REMARKS	
LEAD AGENCY						
FIRST SUPPORT AGENCY						
SECOND SUPPORT AGENCY						
THIRD SUPPORT AGENCY						