



## **Spill Contingency Plan for the Long Term Monitoring Program (2018)**

### **Summary**

As part of its commitment to stakeholders and consistent with Step 10 of the 10-step approach for management of contaminated sites, Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC) has committed to implement a long term monitoring (LTM) plan for each remediated site for which permanent structures remain (i.e., landfills, tailings, etc.). The LTM program is developed in accordance with the Abandoned Military Site Remediation Protocol (AMSRP) (INAC, 2009), and is divided into 3 phases: Phase I (Years 1, 3, and 5); Phase II (Years 7, 10, 15, and 25); and Phase III (beyond Year 25). LTM activities include visual monitoring of the waste facility and surrounding areas; natural environment monitoring (as detailed in the site-specific LTM Plans); soil sampling (limited to locations where vegetation stress, seepage or staining has been identified), water samples (groundwater and/or surface water), and ground temperature (where permafrost aggradation is required).

### **Purpose**

The purpose of LTM at these sites is to minimize potential impacts to human and environmental health. The purpose of this spill plan is to fulfill water licence requirements and to outline response actions to spills of any size that may occur during LTM on site. The plan seeks to minimize potential health and safety hazards and impacts to the environment.

### **LTM Sites**

This plan is prepared for remediated sites currently in the LTM program, including:

1. CAM-F Sarcpa Lake (1BR-SAR1727)
2. FOX-C Ekalugad Fjord (1BR-EKA1734)
3. Roberts Bay (1BR-ROB1536)
4. Cape Christian (1BR-LOR1727)
5. PIN-B Clifton Point (1BR-CLI1727)
6. CAM-D Simpson Lake (1BR-SIM1520)
7. PIN-D Ross Point (1BR-ROS1727)
8. Ennadai Lake (1BR-ELR1829)

Site descriptions for the above LTM sites can be found in their water licence and site-specific LTM Plans.

### **Hazardous Material**

No hazardous material is stored on site. Only the engineered waste facilities remain on site, the performance of which is monitored regularly to ensure these facilities continue to perform as designed. Monitoring is conducted within 1-2 days, and is staged out of the nearest community, so no camp is required. Access to the sites is via road or via aircraft (fixed wing or rotary).

The chemicals brought to site for LTM are present in very small quantities and vary by site and the third-party conducting the LTM. Detailed information about the chemicals brought to site (including safety data sheets) is provided in site-specific health and safety plans prepared for each site-visit.

A list of chemicals brought to site for LTM generally include the following:

1. Calibration solutions - <500 ml
2. Alconox cleaning solution - <1 kg
3. Sample preservatives (provided by the laboratory) - <500 ml

### **Preventative Measures**

Appropriate personal protective equipment (PPE) will be used when handling all chemicals. Spill kits will be brought to site and will include a shovel, absorbent material, and containers. Refueling is rarely required for day trips but if it is necessary (as a result of bad weather), drip trays will be used during any refueling operations.

### **Environmental Impacts**

Long term monitoring activities, and any potential spill event associated with these activities, are expected to have manifestly insignificant environmental impacts.

### **Spill Response Procedures**

In the event that an unauthorized discharge of waste occurs, the CIRNAC employee on site will:

- Assess safety hazards and identify the spilled substance
- Stop the spill at the source, if it is safe to do so
- Isolate and clean up the spill and store waste in an appropriate container.
- Dispose waste in accordance with the safety data sheets and applicable regulations
- Document all events and measures taken
- Notify the Director of Contaminated Sites via satellite phone at (867) 975-4730
- Report the spill to the 24-Hour Report Line at (867) 920-8130
- Consult the reportable threshold table and, if required, submit a spill report form to [spills@gov.nt.ca](mailto:spills@gov.nt.ca)
- Notify nearby communities that may be affected by the spill
- Notify the Nunavut Water Board and CIRNAC Inspector within 30 days of the spill and include details of the spill in annual reports

## **Appendix A: NT/NU Spill Report Form**



Canada

# 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			LONGITUDE		
	DEGREES	MINUTES	SECONDS	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 ENVIRONMENT	
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	EMPLOYER	LOCATION CALLED	REPORT LINE NUMBER
		STATION OPERATOR		YELLOWKNIFE, NT	(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					

## **Appendix B: Reportable Threshold Table**

**Table 1: Immediately Reportable Spill Quantities**

<b>TDG Class</b>	<b>Substance</b>	<b>Immediately Reportable Quantities for NWT 24 Hour Spill Line</b>
1 2.3 2.4 6.2 7 None	Explosives Compressed gas (toxic) Compressed gas (corrosive) Infectious substances Radioactive Unknown substance	Any amount
2.1 2.2	Compressed gas (flammable) Compressed gas (non-corrosive, non flammable)	Any amount of gas from containers with a capacity greater than 100 L
3.1 3.2 3.3	Flammable liquids	≥ 100 L
4.1 4.2 4.3	Flammable solids Spontaneously combustible solids Water reactant	≥ 25 kg
5.1 9.1	Oxidizing substances Miscellaneous products or substances excluding PCB mixtures	≥ 50 L or 50 kg
5.2 9.2	Organic Peroxides Environmentally hazardous	≥ 1 L or 1 kg
6.1 8 9.3	Poisonous substances Corrosive substances Dangerous wastes	≥ 5 L or 5 kg
9.1	PCB mixtures of 5 or more ppm	≥ 0.5 L or 0.5 kg
None	Other contaminants (e.g. crude oil, drilling fluid, produced water, waste or spent chemicals, used or waste oil, vehicle fluids, waste water, etc.)	≥ 100 L or 100 kg
None	Sour natural gas (i.e. contains H <sub>2</sub> S) Sweet natural gas	Uncontrolled release or sustained flow of 10 minutes or more