Spill Response Plan

WORK PLAN

Tower Arctic LTD.

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Submitted To:	Government of Nunavut, Advisian
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Contents

1. INTRODUCTION

This document is a general contingency plan in case of accidental spill of hazardous materials in the environment. This document is presented as part of the Pond Inlet Marine Infrastructure, by the company Tower Arctic LTD.

This document demonstrates the organization that structures the environmental procedures that Tower Arctic LTD. will execute in case of an accidental spill of hazardous material happens in the environment.

2. PEOPLE RESPONSIBLE

Manager of the environment for Tower Arctic on site:

SUPERINTENDENTS / FORMERS

MR. YANNICK BÉLANGER / MR. MARTIN DESCHESNES

Cell : 418-378-9161 / Cell : 581-996-7254

PROJECT DIRECTOR / PROJECT MANAGER:

MR. SIMON GOULET Eng. / SIMON BROCHU Eng.

Cell : 418-955-3068 / 418-563-1128

3. COMMUNICATION PATTERNS

The communication patterns are shown in appendix A and will be posted in the following area:

- In all Tower Arctic office trailers

4. INVENTORY OF HAZARDOUS MATERIALS STORED ON SITE

The layout of hazardous materials is submitted in the appendix C:

- Storage tank 500 liters (diesel fuel)
- Support for gas bottle (acetylene, oxygen, propane)
- Various types of hydrocarbons (oil, grease)
- Blasting materials and explosives

5. GENERAL CONTINGENCY PLAN

For Tower Arctic LTD, the speed of operations is the key element in this plan which ensures an effective response from different mobilized resources on site when an accidental spill happens. For this reason, the activities executed during an operation must be coordinated while respecting the following pattern as much as possible:

FIRST STEP

As soon as an accidental spill of a hazardous material in the environment is reported.

Tower Arctic LTD. will proceed with the following:

1. Verify surrounding conditions

   Quickly look around if there is any fire or heat sources

   Identify the leaking hazardous material

   Analyze according to data sheets if it's secure to respond

   Be sure to wear safety equipment listed in MSDS prior to control the leak

2. Control the leak

   Quickly locate the contaminant source

   If possible, immediately neutralize the leak

   Evaluate amount of damage on site

3. Confinement of spilled product (Minimize the risk of contamination)

   Put up barriers to reduce spread of spilled material by laying down socks, pads or absorbent aggregate. The locations of the spill kits are shown on the sketch in appendix D, this drawing is also posted in our office trailers.

Protect sensitive areas such as watercourses, water well sources, catch basins, and wildlife habitats.

4. Inform the people responsible

Describe the incident to the superintendent and/or the project manager and fully collaborate with the participants. Inform the responsible on which type of hazardous material were currently spilled on site, the amount released, the source of the leak, the area affected and the immediate action taken to solve the situation.

SECOND STEP

1. Recover hazardous and residual materials

Recover the spilled material manually or mechanically as the case may be.

Haul the hazardous and residual material to the specific container

Dispose of the hazardous material as per the law and good practice.

2. File the Environmental Report / Investigation Report

Copy the report provided in appendix B.

A copy of the report will be provided to Government of Nunavut and a spill log will follow and be discussed.

Proof of hazardous waste disposal will be issued at Government of Nunavut.

6. OTHER MEASURES

- ***Towers Arctic LTD.*** will ensure that the cleaning of the area will be carried out as per the law. The transport and disposal of the recovered hazardous waste will be carried out by a specialized company.
- If necessary, a company specialized in the disposal of hazardous waste will be contacted as soon as possible. Coordination and follow up of their operations will be ensured on site to enable a fast execution.
- If necessary, recommendations from Government of Nunavut or opinions of specialists from the Ministry of Environment Canada will be considered.

Note that a complementary document on spill prevention measures is presented in ***Appendix E*** *and will be considered during the whole project.*

7. CONCLUSION AND RECOMMENDATIONS

This document has been presented to you to show the structure that **Tower Arctic LTD.** will put in place if an accidental spill in the environment occurs during this project.

An emergency structure and communication pattern will be developed in order to ensure a quick and efficient response during an environmental incident.

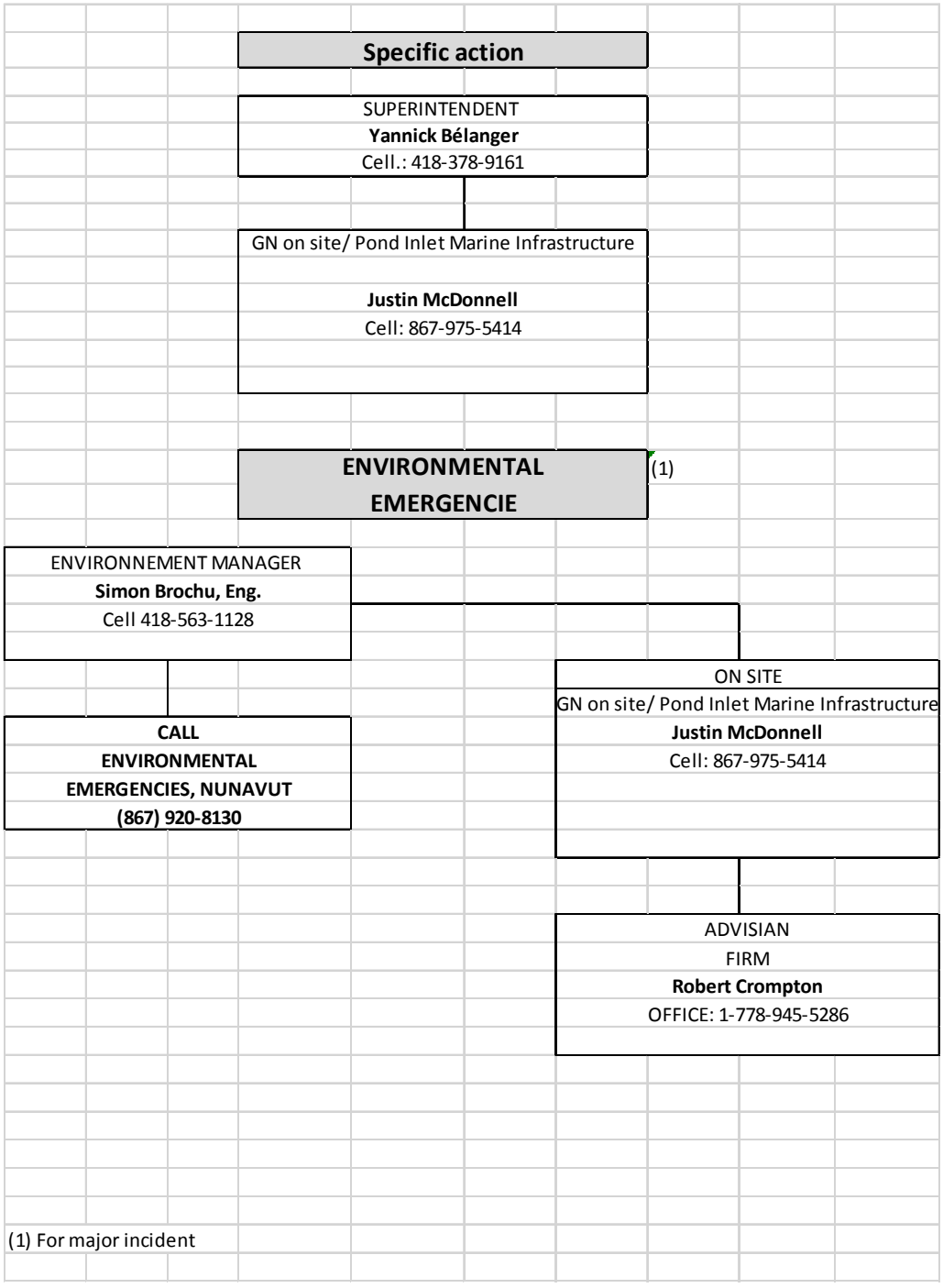
(See Appendix A)

APPENDIX A

EMERGENCY STRUCTURE

AND

COMMUNICATION PATTERN


Specific action
SUPERINTENDENT
Yannick Bélanger
Cell.: 418-378-9161
GN on site/ Pond Inlet Marine Infrastructure
Justin McDonnell
Cell: 867-975-5414
ENVIRONMENTAL EMERGENCIE
(1)
ENVIRONNEMENT MANAGER
Simon Brochu, Eng.
Cell 418-563-1128
CALL
ENVIRONMENTAL
EMERGENCIES, NUNAVUT
(867) 920-8130
ON SITE
GN on site/ Pond Inlet Marine Infrastructure
Justin McDonnell
Cell: 867-975-5414
ADVISIAN
FIRM
Robert Crompton
OFFICE: 1-778-945-5286
(1) For major incident

APPENDIX B

REPORT FOR ACCIDENTAL SPILL

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: MM DD YY	Report Time:	☐ Original Spill Report OR ☐ Update # _____ to the Original Spill Report	**Report Number:**
B	Occurrence Date: MM DD YY	Occurrence Time:		
C	Land Use Permit Number (if applicable):		Water Licence Number (if applicable):	
D	Geographic Place Name or Distance and Direction from the Named Location:		Region: ☐ NT ☐ Nunavut ☐ 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: ☐ Potential Spill	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:

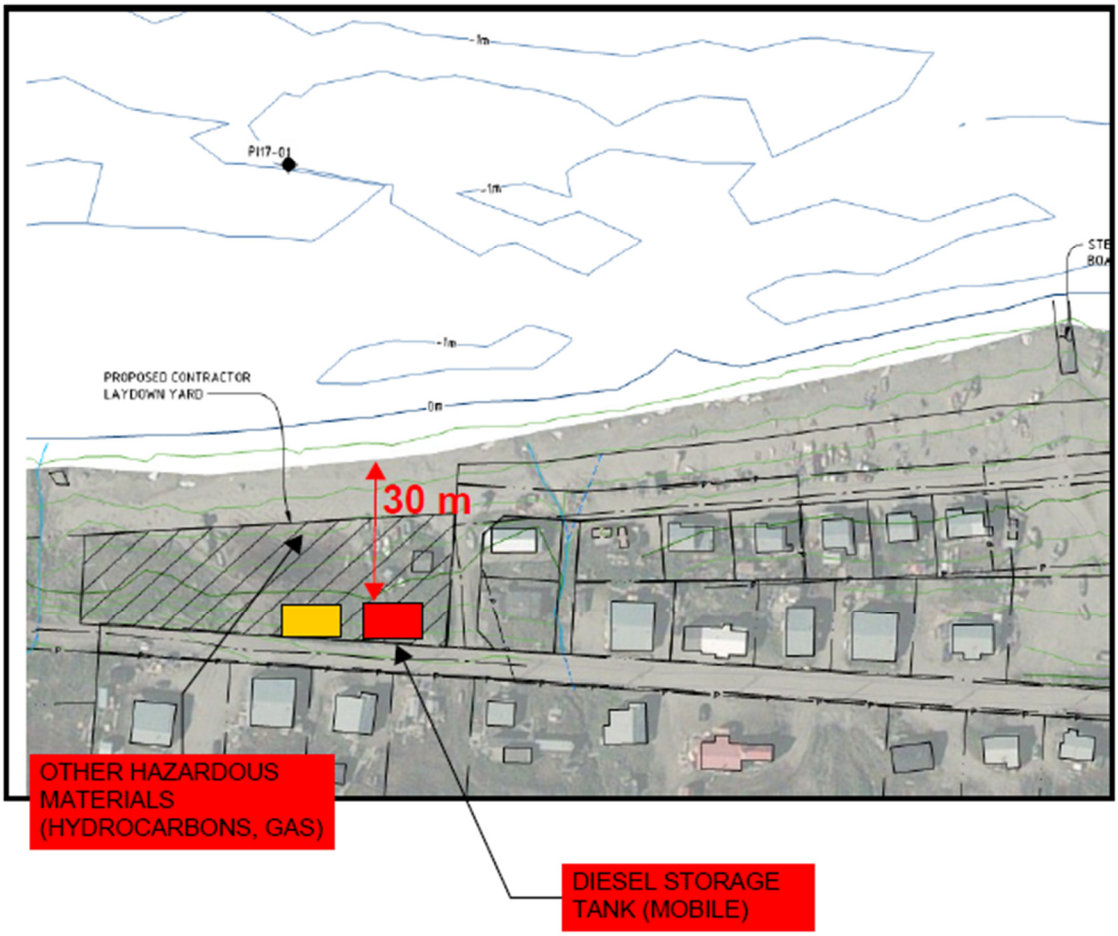
Lead Agency: ☐ EC ☐ CCG/TCMSS ☐ GNWT ☐ GN ☐ ILA ☐ AANDC ☐ NEB ☐ Other: _____ Significance: ☐ Minor ☐ Major ☐ Unknown File Status: ☐ Open ☐ Closed

Agency:	Contact Name:	Contact Time:	Remarks:
Lead Agency:			
First Support Agency:			
Second Support Agency:			
Third Support Agency:			

APPENDIX C

LAYOUT PLAN _ HAZARDOUS MATERIALS

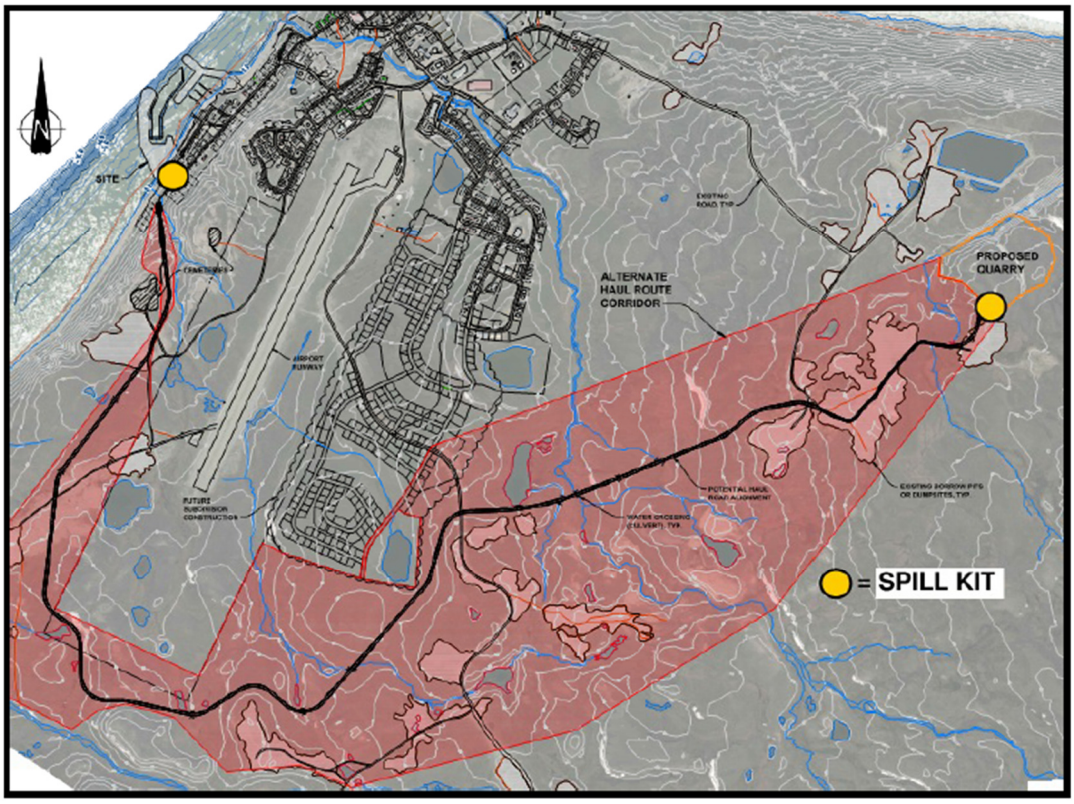
HAZARDOUS MATERIALS PLAN



APPENDIX D

LAYOUT PLAN _ SPILL KITS

SPILL KITS PLAN



*Those general spill kits will stay there permanently and there will be small kits in every truck.

APPENDIX E

OTHER PREVENTION MEASURES

Table 2-1 Spill Prevention and Response: Mitigation and Monitoring Measures Summary

Reference #	Requirement
Spill Prevention and Response Measures	
SP01.	All workers shall be trained in the spill prevention and response requirements during site induction and subsequent toolbox talk sessions.
SP02.	Spill kits shall be readily available, and will be appropriate to the type and amount of hazardous and waste materials anticipated for the Project. Standard spill kits typically contain absorbent booms, socks, pads, waste bags and ties, and PPE such as gloves and goggles. Further details on the contents of the spill kits will be provided by the successful Contractor.
SP03.	Spills shall be reported according to the Spill Contingency Planning and Reporting Regulations (R-068-93) and magnitudes of the events. (24 Hour Spill Report Line by calling 867-920-8130). Reporting requirements for spill magnitudes of individual contaminants are provided in Schedule B of the Regulations (R-068-93).
SP04.	Hydraulic, fuel, and lubrication systems of equipment near watercourses and sensitive habitats shall be inspected periodically to ensure that the systems are in good condition and free of leaks.
SP05.	Appropriately sized drip trays for stationary equipment shall be used. Use secondary containments and drip trays in a manner which does not lead to the collection of rainwater and/or snow.
SP06.	Routine inspections of equipment for leaks, cracked hoses and other conditions that may result in spills shall be undertaken. The Contractor shall ensure external equipment surfaces are free of oil, diesel and other potential contaminants prior to use.
SP07.	Hoses and nozzles used for dispensing fuel shall be maintained in good repair, free of leaks, and equipped with automatic shut-offs.
SP08.	Any delivery hose that has the potential to cause a spill, if it were pulled away from the delivery pump, shall be fitted with a breakaway valve.
SP09.	Operators shall always stay with the nozzle while refuelling.
SP10.	Maintenance and operating procedures shall be established and posted to prevent spills.
SP11.	The Contractor shall drain the existing fuel line (leading to Innuit Head) prior to undertaking blasting works for the laydown area due to the proximity of the fuel line and take appropriate measures to protect the line from damage during blasting.
SP12.	Construction vessels must comply with the requirements for shipboard oil pollution emergency plan and arrangements with a certified response organization defined under the *Canada Shipping Act*, 2001. The requirements are dependent on the size of the vessel.
Other Environmental Measures Applicable (Refer to CEMP)	
VE06	When existing local facilities are not available for refuelling, onshore equipment and vehicles must be serviced and refuelled at least 15 m away from sensitive habitats unless secondary containment is used; preferably over an impermeable surface (e.g. drip trays). Drip pans and / or other protective devices shall also be used to prevent spills of petroleum products and other potentially hazardous liquids (e.g. antifreeze) during servicing.
VE12	When offshore equipment and marine vessels are refueled through a floating hose, Contractor will ensure that all hoses and equipment are in good working order, appropriate spill containment and clean-up equipment is available, and personnel are trained in refueling and spill response procedures.
HM07	Drainage into and from the storage area shall be controlled, and/or suitable secondary containment implemented, to prevent spills or leaks from leaving the site and to prevent run-off from entering the site.
HM08	Containers must be sound, sealable and not damaged or leaking.
WW08	All waste shall be stored in plastic bags while conducting marine work to prevent waste being released into the water.
WW09	Waste shall not be deposited in, or placed on land or ice, under any conditions where the waste may enter arctic waters.