

Appendix F-2

Mock Scenario Report

# *Mock Spill Itivia 2019*



AEM, Meliadine project

2019/07/15

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Reviewed by Bethany Hodgins & Terry Ternes

## INTRODUCTION

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On July 12, 2019 the Agnico Eagle Environment Department conducted a mock spill event at the Itivia refueling station and tank farm as per regulation. A representative of Agnico Eagle emergency response (ERT), Agnico Eagle warehouse staff, Agnico Eagle environment staff, Petro-Nav Inc. ships captain, Intertek personnel, Sarliaq operators and the Rankin Inlet Fire Chief and crew attended the event.

The mock spill verbal scenario involved a compromised expansion joint. The broken expansion joint is exterior to the fuel tank containment berm. The fuel leaked 10 liters per minute for 50 minutes, for a total of 500 L of diesel spilled. Without spill intervention, this volume of diesel would be a hazard to Melvin Bay. Generally, expansion joints are identified as one of the weakest points on a welded fuel line. There is high potential that a small leak, such as this scenario, would not be detected as a pressure drop at the ship. Intertek completes hourly inspections of the fuel line; it is feasible that a spill of this caliber could go undetected for 50 minutes.



Figure 1 - Discussion of the Contents in the Emergency Sea Cans

## PRESENTATION OF MATERIAL AND RECOMMENDATIONS PRIOR TO VERBAL SCENARIO

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**11:15** The Environment Department reviewed the contents of the sea cans and it was found that the First Aid Kit and one sledgehammer were missing. These items have since been replaced.

**15:20** All attendees were welcomed and the event was initiated.

**15:26** The Environment General Supervisor explained all the equipment available in the sea cans. The following items were reviewed with attendees:

- Floating Hydrocarbon Booms
- Hydrocarbon Rolls
- Hydrocarbon Pads
- Lined Quatrex Bags
- Empty 205 L TDG drums
- Spill Trays
- Personal Protective Equipment
- Oil Skimmer
- Containment Booms
- Hand Tools



Figure 2 - Review of Items in the Emergency Sea Cans

**15:39** Intertek proposed to leave the seacans open during fuel transfer and asked for the sea cans to be closer to potential spill origins. They also requested the sea cans to be turned towards the shore, this would ensure a fast response if needed. Agnico Eagle will leave the sea cans open during the fuel offloading and will evaluate alternate locations for the sea cans.

**15:40** Intertek requested to pump out the water from the berm situated under the main valve to prevent overflowing. This was completed and a rain cover is to be installed.

**15:42** The Environment General Supervisor asked for Intertek and ship personnel to have radios programed with Meliadine channels. This will ensure rapid communication when needed. This action item has been communicated to the Energy and Infrastructure Department (E&I). E&I will supply a radio to Intertek but not to the boat, as Intertek and the boat will have their own internal radio communication.

**16:00** Intertek suggested to revisit the position of the marine boom sea can. They would prefer the sea can is closer to shore. This will help responders deploy the marine boom efficiently.

**16:03** The Environment Coordinator informed the group the marine boom sea can was placed using a crane and may need to be moved in winter when the ground is frozen. This request has been communicated to E&I, who are assessing the feasibility of relocating the sea can.

#### **MOCK DRILL VERBAL SCENARIO**

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**16:07** Spill occurs (500 L of leaking fuel on the road). An Intertek personnel spotted the incident.

**16:08** Intertek personnel called the ship's captain and requested an emergency stop of fuel transfer. Intertek called "CODE 1" to Rankin Inlet dispatch and requested environmental personnel to contact ERT on the radio for assistance. ERT indicated that it would be a minimum

of 1 hour to mobilize the Meliadine ERT to Melvin Bay. Due to the sensitive time frame, calls would be made to the contractors in Rankin Inlet to secure additional help.

**16:12** Intertek stated they would attempt to dig a trench to contain the spill in the area contaminated, to avoid fuel flowing into the bay. It was noted the ground was very hard and manual digging may not be possible. It would be beneficial to have a pallet of full sand bags to create a berm when needed. Agnico Eagle will evaluate this option.

**16:20** Intertek called warehouse for equipment to assist with spill containment such as an excavator. It was brought to the group's attention that wires or pipes may be installed under the road. It would be valuable to have an as-built plan of the area. No trenching is to occur if there is a chance of hitting a buried line. It was noted that a loader is in close proximity to Itivia, loose material from the area could be collected and a berm constructed that would minimize any fuel movement.

**16:25** Mark Wyatt Rankin Inlet Fire Chief informed the group the fire department is available at all times for assistance. They can be reached at 867-645-2525. Local contractors can be called to assist with equipment and labor if required.

**16:26** Richard Connolly from Sarliaq informed the group there is a Sarliaq security individual present at Itivia beach 24/7 during the summer. They are located in the blue gatehouse and are available to help with spill response. Sarliaq could potentially supply some equipment and labor on short notice.

**16:30** The verbal scenario was concluded, it was determined all group members had a sufficient understanding of the roles responsibilities of all spill responders.

**16:33** Terry Ternes reviewed the environmental ship to shore procedure with the group.



## ACTIONS ITEMS

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- Sea cans to be moved closer to potential spill origins and turned towards the shore. This is to be evaluated by Agnico Eagle; the best location for sea cans will be determined.
- Pump out the water under the main valve containment berm, this action item has been completed.
- Radios to be program with Meliadine channels for Intertek and ship. It was decided that only Intertek needs a radio as Intertek communicates to the boat on different channels. E&I to supply radio to Intertek.
- Marine boom sea can to be moved closer to shore if possible. This will allow better access for the marine booms to be attached to a boat and pulled into the Melvin Bay. This will be evaluated by Agnico Eagle.
- Add a pallet of full sand bags to emergency spill sea cans. This will be evaluated by Agnico Eagle.
- Have an as-built plan of Itivia Area area available. This will be evaluated by Agnico Eagle.
- Respond to Intertek questions;
  - Have the expansion valves and pressure been tested? If they have been tested was a pig put in the line to check if they are in working condition? Intertek noted the lines sounded empty, but they believe it should be full. These items will be discussed by E&I and Intertek.
  - How is the maximum capacity of a tank monitoring during fuel transfer?
  - Who is going to manipulate the valves? Intertek will manipulate the valves according to their contract.
- Follow up with Sarliaq if Agnico Eagle would like to rent stand lights for fuel transfers. Logistics indicated that there are light towers at the Itivia Yard that can be used if there is a spill.



**Figure 3 – Marine Boom Use Review**



**Figure 4 – Discussion of Mock Spill**






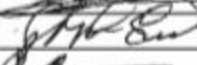



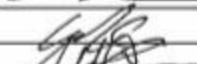


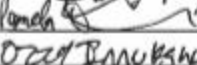
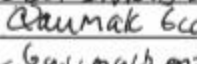
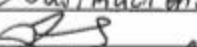
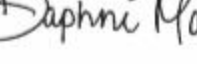







Figure 5 – Demonstration of Quatrex Bag Set-Up

## Mock Spill Training Event

LOCATION: Itivua

DATE: July 12 2019

### MEETING (DETAILS):



NAMES (PRINT)	SIGNATURE	NAMES (PRINT)	SIGNATURE
Bethany Hodgins			
Van Gortzen			
STEVE EASTERBY			
Richard Nalain			
Kianna Caruella			
Darren Wilco			
Tom Mackay			
Simeon Dion			
Chris Grnelly			
Leo Kaludjak			
MARVIN DION			
CHRISTIAN DAVIGN			
Mario Bonenfant			
MARK WYATT			
PATRILAKAPSI			
OZZY INUKSHUK			
DANAK ECCLES			
SAVIN MACKENZIE			
Terry Tenn			

Daphne Morin  Page 1 of 1

# Emergency Contact Numbers

Last update: Jan 15, 2017 Version D

## Radio: Channel 1; call “CODE 1, CODE 1, CODE 1”



**Agnico-Eagle Mines (AEM) Meliadine Project**  
**25 km north-north-west of Rankin Inlet**  
 63.027400 (N), - 92.171700 (W) (Helipad)

**Meliadine Site Telephone Number:** **819-759-3555**  
 Rankin Office: (Ext:3199) 867-645-2920

Onsite Health Care Professional: 3911

Medical Emergency		
<b>Rankin Inlet Health Center</b>	Monday - Friday 8h30 to 17h00	(867) 645-6300
Head Nurse: Gracy Dounha	AFTER HOURS EMERGENCY	(867) 645-6700
<b>Rankin Inlet Ambulance Service (Fire Dept.)</b>	<b>Emergency</b>	<b>(867) 645-2525</b>
<b>Rankin Inlet Search and Rescue</b>		(867) 645-3300
<b>3 Poison Control Centre</b>	Emergencies	(867) 979-7350
(Qikiqtani General Hospital, Iqaluit)	General inquiries	(867) 979-7300
Law Enforcement, Rescue, Wildlife		
<b>RCMP in Rankin Inlet</b> (Death on camp or for Search & Rescue)		(867) 645-1111
(0123 = General Information, 1111 for emergency, 24H)		(867) 645-0123
<b>Workers' Safety and Compensation Commission (WSCC)</b>		(800) 661-0792 <b>Hot Line</b>
Mine Inspector: Lex Lovatt		(867) 920-3849
<b>Coroner</b>		(867) 975-7292
<b>Conservation &amp; Wildlife officer in Rankin Inlet</b>		(867) 975-1063 cell
Officer Johanne Coutut Autut		(867) 645-8084
		(867) 645-8085
Hazmat & Spills		
<b>CANUTEC</b>		(613) 996-6666
Spills Hotline	Phone	(867) 920-8130
Agnico-Eagle Mines (AEM)		
<b>Program Manager:</b> Martin Plante <a href="mailto:martin.plante@agnico-eagle.com">martin.plante@agnico-eagle.com</a>	Office	(819) 759-3555
		ext:4608058 (819)
Others		
Health & Safety Superintendent: Dominic Richard <a href="mailto:dominic.richard@agnicoeagle.com">dominic.richard@agnicoeagle.com</a>		(819) 856-4104 Cell
Environment Superintendent: Nancy Harvey <a href="mailto:nancy.harvey@agnicoeagle.com">nancy.harvey@agnicoeagle.com</a>		(819) 856-4385 Cell
Human Resources Superintendent : Sandra Marseille <a href="mailto:sandra.marseille@agnicoeagle.com">sandra.marseille@agnicoeagle.com</a>		(819) 860-3723 Cell
FM Radio Frequencies		
Channel 1 – CAMP (Emergency call Channel)		Rx & Tx: 167.43000
Channel 2 – CONSTRUCTION		Rx & Tx: 163.32000
Channel 3 – EXPLORATION		Rx: 163.57500 Tx: 166.70500
Channel 8 – ROAD Meliadine		Rx: 162.54000 Tx: 165.57000
Channel 9 – ROAD Rankin		Rx: 162.69000 Tx: 167.64000
Channel 10 – UG OPERATION		
Channel 11 – UG Spare		