



## 2021-10-04 MBK 1L Petroleum Product

GN reference #: 2021-439

Please find the following information as a follow up to the Spill report submitted October 13, 2021 by Agnico Eagle Meadowbank division. This detailed report is submitted to the Inspector in compliance with the conditions under the Nunavut Water Board License 2AM-MEA1530, Part H, Item 8c and subsection 38(7) of the Fisheries Act.

### Spill Description

On October 12<sup>th</sup>, a CIRNAC inspector contacted Agnico Eagle to report a petroleum product that was photographed on October 4<sup>th</sup>, in the water near the Marshalling Facilities, along the floating dock. AEM inspected the spud barge upon notification on October 12<sup>th</sup> and found no remaining evidence of petroleum product in or near the water. The Spud Barge is operated by Desgagnes to transport shipping containers to AEM. Based on the photographs, the estimated spilled volume is 1L.



*Figure 1. Photographs Submitted by CIRNAC, dated October 4th*

Spill location: 64 18'16"N 95 57'12"W on IOL. The impacted waterbody is Baker Lake.

## Cause of Spill

No exact cause has been identified. However, it is possible the rain observed in Baker Lake on October 4<sup>th</sup> may have encouraged runoff of the product used to lubricate hydraulic components of the equipment in service at the spud barge and made his way into the water body.

## Remediation Actions

Due to other ongoing events on October 12<sup>th</sup>, water around the Spud Barge was sampled on October 13<sup>th</sup>, and the results have not raised any concerns. Analysis results are available in Table 1. The inspection frequency of the Spud Barge was increased following the notification by CIRNAC, until barge activities were completed.



*Figure 2. Spud Barge (October 12th)*

Table 1. Baker Lake Water Quality Analysis

Sample date		10/13/2021
Sample name		Spud barge
Sample type		N
Parameter	Unit	
<b>WQ01- Field Measured</b>		
Temperature	°C	5.3
pH	pH units	7.49
Conductivity	uS/cm	22.5
Turbidity	NTU	0.81
<b>WQ02- Conventional Parameters</b>		
TSS	mg/L	1
<b>WQ04- Nutrients and Chlorophyll a</b>		
Ammonia (NH3)	mg/L	< 0.061
Ammonia Nitrogen	mg/L	< 0.050
<b>WQ05- General Organics</b>		
Total oil and grease	mg/L	< 0.50
<b>WQ06- Total Metals</b>		
Arsenic	mg/L	0.00011
Copper	mg/L	< 0.00050
Lead	mg/L	< 0.00020
Nickel	mg/L	< 0.0010
Zinc	mg/L	< 0.0050
<b>WQ10- Volatile Organics</b>		
Benzene	mg/L	< 0.00020
Ethylbenzene	mg/L	< 0.00020
Toluene	mg/L	< 0.00020
Xylenes	mg/L	< 0.00040
m,p-Xylenes	mg/L	< 0.00040
o-Xylene	mg/L	< 0.00020

## Corrective measures

A remainder was given to all crews operating near the water of the importance of clean equipment, to avoid rain-caused runoff into water bodies. A documented visual inspection will be performed on all equipment prior to going on the Spud Barge. Furthermore, an investigation is ongoing with the shipping company to further evaluate corrective actions to mitigate reoccurrences.

## Closure

We trust that the above details described appropriately the spill incident that occurred at the Meadowbank site on October 04, 2021 and the cleanup activities. Please contact the undersigned should you have any questions.



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Sent from Meadowbank