



MEADOWBANK COMPLEX

Monitoring Program Summary Report

January 2022

Type A Water License 2AM-MEA1530

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SECTION 1 • BACKGROUND

On May 13, 2020, Agnico received the minister's approval for the Water License 2AM-MEA1530 Amendment No.4. This amendment was required to authorize changes to the previously-approved uses of water and deposit of wastes needed to reflect the expansion of the Whale Tail Pit Project.

As required under Part I, Item 21 of Type A Water License 2AM-MEA1530 (Amendment No.4), this report documents the water management and monitoring activities at the mine site for the month. This includes water usage, Vault Attenuation Pond and Phaser Attenuation Pond discharge and water quality, East Dike Seepage discharge water quality, RSF Seepage, Central Dike Seepage, Assay Road Seepage, sewage treatment plant discharge water quality (which is directed to the onsite storm water management pond) and an update to the In-Pit disposal.

In addition, a summary of spills/actions for the month is reported.

SECTION 2 • WATER MANAGEMENT

2.1 WATER USAGE

Fresh water usage for the month is summarized in Table 2.1 below

Table 2.1: Freshwater Usage (m³)

Water Location	Source Lake	Jan
Camp	Third Portage Lake	2,500
Mill (freshwater tank)	Third Portage Lake	49,833
Emulsion plant	Unnamed Lake	48
Total Freshwater Usage (m³)		52,380
Ore Water (m³)	Ore	1,927
Reclaim Water Usage (m³)	Tailings Pond	266,541

2.2 WASTE ROCK STORAGE FACILITY SEEPAGE

In January, no water was pumped back to the North Cell TSF from the ST-16 sump. No sampling was completed at WEP1 (Station ST-30) and WEP2 (Station ST-31) during the month as they were frozen.

Agnico Eagle completed inspections at the Portage and Vault RSFs, no non-conformities were found during the month.

2.3 CENTRAL DIKE SEEPAGE

In January, 15,853 m³ of water was pumped from ST-S-5 sump to Portage Pits and 4,709 m³ of water was pumped from ST-S-5 to the South Cell of the TSF. Sampling was conducted minimally on a monthly basis at ST-S-5 as per the requirements of the NWB water license.

Visual inspections are completed monthly, by the Environment Department, as well as daily monitoring of piezometric values.

2.4 ASSAY ROAD SEEPAGE

In January, no water was pumped from the mill trench back to the mill due to frozen conditions. Agnico Eagle completed inspections and no non-conformities were found during the month.

2.5 SEEPAGE AND RUNOFF FROM THE LANDFILL

The landfill was inspected weekly and no seepage or runoff was observed.

2.6 SEWAGE TREATMENT PLANT

One (1) effluent wastewater sample was collected at the onsite sewage treatment plant (STP) in January.

The Seprotech STP results are shown in Table 2.6.1 below; the LJ-Mix STP results are shown in Table 2.6.2. The effluent from the STP is discharged to the Stormwater Management pond.

In January, no water was pumped from the Stormwater Management pond to the tailings storage facility.

Table 2.6.1: Seprotech Effluent Results

Parameters	Units	January 31, 2022
Ammonia (NH ₃)	mg N/L	0.0012
Ammonia-Nitrogen (NH ₃ -NH ₄)	mg N/L	14
Total Kjeldahl Nitrogen	mg N/L	15
BOD-5	mg/L	7
COD	mg/L	44
Total Suspended Solids	mg/L	11
Nitrate	mg N/L	21.6
Nitrite	mg N/L	0.032
pH*	Units	5.30
Fecal Coliform	UFC/100 mL	<10
Total Coliform	UFC/100 mL	<100

*Parameter measured by STP operators

Table 2.6.2: LJ-Mix Effluent Results

Parameters	Units	January 31, 2022
Ammonia (NH ₃)	mg N/L	0.012
Ammonia-Nitrogen (NH ₃ -NH ₄)	mg N/L	13
Total Kjeldahl Nitrogen	mg N/L	14
BOD-5	mg/L	<2
COD	mg/L	21
Total Suspended Solids	mg/L	3
Nitrate	mg N/L	22.2
Nitrite	mg N/L	0.083
pH*	Units	6.20
Fecal Coliform	UFC/100 mL	<10
Total Coliform	UFC/100 mL	<100

*Parameter measured by STP operators

2.7 VAULT ATTENUATION POND EFFLUENT

No discharge has occurred from the Vault Attenuation Pond since October 9, 2017. There is currently no plan to restart the discharge in the future.

2.8 PHASER ATTENUATION POND

No water was pumped from the Phaser Attenuation Pond during the month.

No water was transferred from BB Phaser Pit sumps to the Phaser Attenuation Pond during the month.

2.9 EAST DIKE SEEPAGE EFFLUENT

Discharge to Second Portage Lake occurred from January 1st to January 25th and was stopped due to a frozen pipe.

Four (4) weekly effluent samples were collected at ST-8 in January 2022. The TSS results did not exceed the maximum allowable grab sample concentration (30 mg/L) or the maximum monthly average concentration (15 mg/L) permitted by the Water License, Part F, Item 7. The TSS monitoring results for January are provided in Table 2.9.1 below.

Table 2.9.1: East Dike Seepage Results for TSS

Parameter	Unit	Sample Date				Monthly Average
		01/04/2022	01/10/2022	01/17/2022	01/24/2022	
Total Suspended Solids	mg/L	10	11	11	2	9

Monthly sampling pursuant to the Water License was also conducted at ST-8 in January. The results are shown in Table 2.9.2 below. There were no exceedances of MDMER criteria.

Table 2.9.2: January 2022 Monthly Monitoring Results

Parameter	Unit	Sample Date	
		01/04/2022	01/17/2022
pH*	-	8.65	7.33
Aluminum	mg/L	0.142	0.102
Sulphate	mg/L	6.0	6.3
Arsenic	mg/L	0.000970	0.000988
Copper	mg/L	0.00145	0.00142
Nickel	mg/L	<0.0010	0.000585
Lead	mg/L	<0.00020	0.000156
Zinc	mg/L	<0.0050	0.00170
Radium 226	mg/L	<0.0050	<0.0050
Total Cyanide	mg/L	<0.00050	<0.00050
Turbidity*	NTU	5.24	3.23
Un-Ionized Ammonia	mg/L	<0.0024	0.0014

* Parameter measured by technician

2.10 NON CONTACT WATER

Portage Area East diversion ditch (ST-5) and West diversion ditch (ST-6) were not sampled in January due to the diversion ditches being frozen. Sampling is conducted during open water conditions.

2.11 IN-PIT DISPOSAL

Tailings were disposed of in Portage Pit E and reclaim water was taken from Portage Pit A for the month.

SECTION 3 • SPILL MANAGEMENT

Figure 3.1 shows reported and non-reported spills for 2022 broken down per month and Table 3.1 summarizes Agnico Eagle spill reports for January.

Three (3) spills occurred on site during the month with none (0) reported to regulators. Spills were contained and cleaned, contaminated material was disposed to the appropriate area, and the clean-up actions were monitored closely by the Environment Department.

Figure 3.1 2022 Reported and Non-Reported Spills

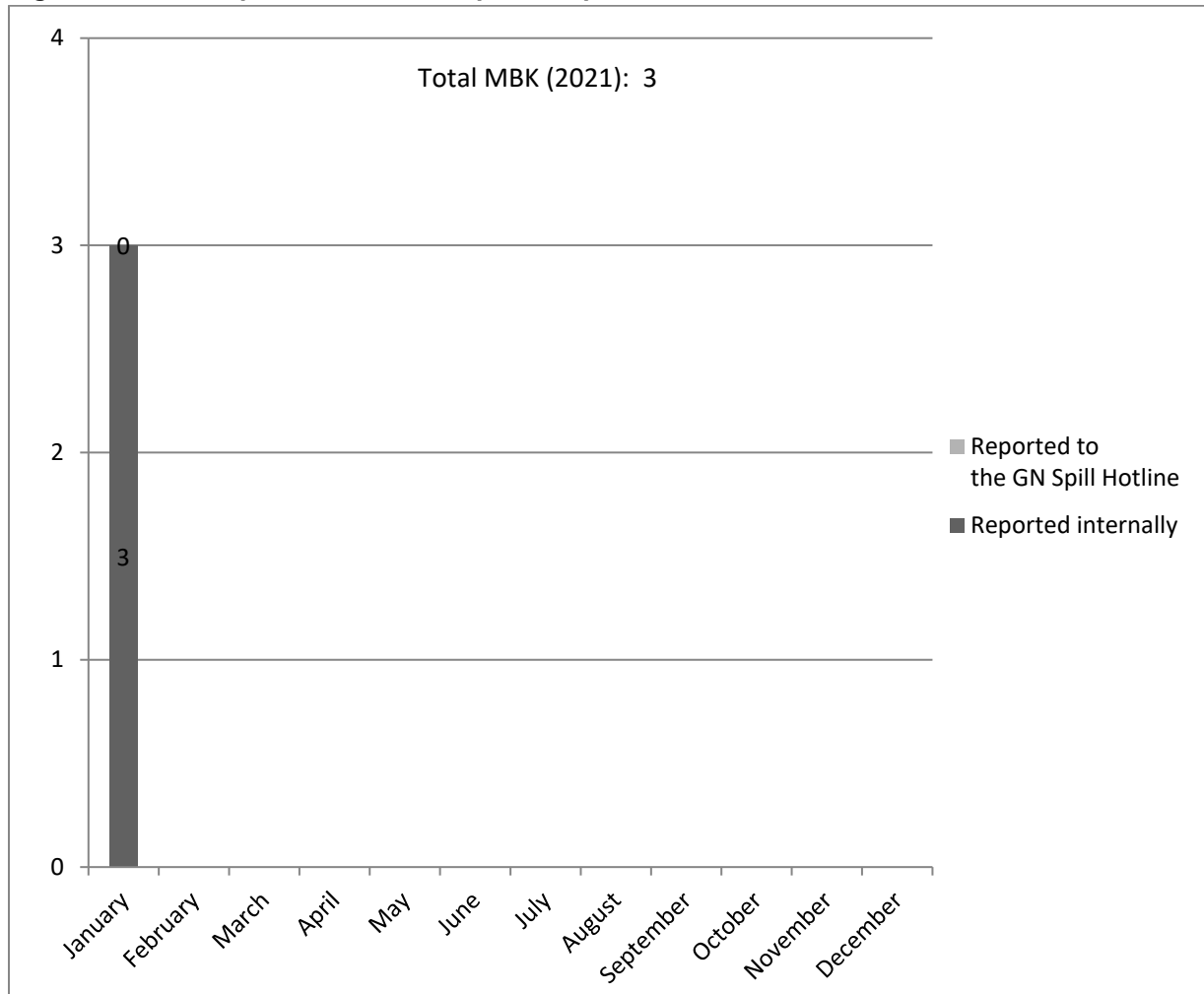


Table 3.1: Summary of Agnico Eagle Internal and Reported Spill Reports, January 2022

Date of Spill	Hazardous Material	Qty	Units (L / Kg)	Location	Cause of spill	Clean-up action taken
1/27/2022	Hydraulic Oil	10	L	AWAR KM 68	Broken hydraulic hose	The machine was immediately stopped and the contaminated snow was collected and adequately disposed of in the Meadowbank tailings.
1/28/2022	Diesel Fuel	80	L	Meadowbank Tank Farm	Procedure not followed	Contaminated material was removed and brought to yellow bin for disposal.
1/30/2022	Coolant	2	L	Exploration parking	Equipment failure	Coolant was recovered and disposed of at the tailing facility.