



MEADOWBANK COMPLEX

Monitoring Program Summary Report

May 2023

Type A Water License 2AM-MEA1530

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SECTION 1 • BACKGROUND

On May 13, 2020, Agnico Eagle 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 Mine.

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	Feb	March	April	May	Total
Camp	Third Portage Lake	3,288	2,944	2,980	3,131	3,024	15,367
Mill (freshwater tank)	Third Portage Lake	50,174	55,874	62,407	60,918	48,147	277,520
Emulsion plant	Unnamed Lake	0	0	0	0	0	0
Total Freshwater Usage (m³)		53,462	58,818	65,387	64,049	51,171	292,887
Ore Water (m³)	Ore	5,853	5,146	5,195	4,478	2,510	23,182
Reclaim Water Usage (m³)	Tailings Pond	294,828	250,824	285,244	290,710	268,126	1,389,732

2.2 WASTE ROCK STORAGE FACILITY SEEPAGE

In May, a total of 45,465 m³ of water was pumped to Pit A from the ST-16 sump. Of that amount, 19,161 m³ was transferred from WEP1 sump and 13,132 m³ from WEP2 sump to the ST-16 sump.

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

2.3 CENTRAL DIKE SEEPAGE

In May, 112,254 m³ of water was pumped from ST-S-5 sump to Portage Pits.

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 May, 6,742 m³ of water was pumped from the mill trench back to the mill. As per the Freshet Action Plan, 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 May.

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 May, no water was pumped from the Stormwater Management pond to Portage Pits.

Table 2.6.1: Seprotech Effluent Results

Parameters	Units	May 10, 2023
Unionized Ammonia (NH ₃)	mg N/L	0.15
Ammonia-Nitrogen (NH ₃ -NH ₄)	mg N/L	42
Total Kjeldahl Nitrogen	mg N/L	45
BOD-5	mg/L	7
COD	mg/L	57
Total Suspended Solids	mg/L	6
Nitrate	mg N/L	4.75
Nitrite	mg N/L	1.10
pH*	Units	6.90
Fecal Coliform	UFC/100 mL	480
Total Coliform	UFC/100 mL	13000

*Parameter measured by STP operators

Table 2.6.2: LJ-Mix Effluent Results

Parameters	Units	May 10, 2023
Unionized Ammonia (NH ₃)	mg N/L	0.069
Ammonia-Nitrogen (NH ₃ -NH ₄)	mg N/L	21
Total Kjeldahl Nitrogen	mg N/L	25
BOD-5	mg/L	4
COD	mg/L	71
Total Suspended Solids	mg/L	8
Nitrate	mg N/L	36.5
Nitrite	mg N/L	0.025
pH*	Units	6.80
Fecal Coliform	UFC/100 mL	50
Total Coliform	UFC/100 mL	300

*Parameter measured by STP operators

2.7 VAULT ATTENUATION POND EFFLUENT

No discharge has occurred from the Vault Attenuation Pond since October 9, 2017.

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

No water was discharged from the East Dike to Second Portage Lake during the month. In May, water from the East Dike was discharged into Portage Pits.

2.10 NON-CONTACT WATER

Portage Area East diversion ditch (ST-5) and West diversion ditch (ST-6) were not sampled in May 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 Pits and reclaim water was taken from Portage Pit E for the month.

SECTION 3 • SPILL MANAGEMENT

Figure 3.1 shows reported and non-reported spills for 2023 broken down per month and Table 3.1 summarizes Agnico Eagle spill reports for May.

Three (3) spills occurred on site during the month with none being 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. There was no off-site impact to any watercourses.

Figure 3.1 2023 Reported and Non-Reported Spills

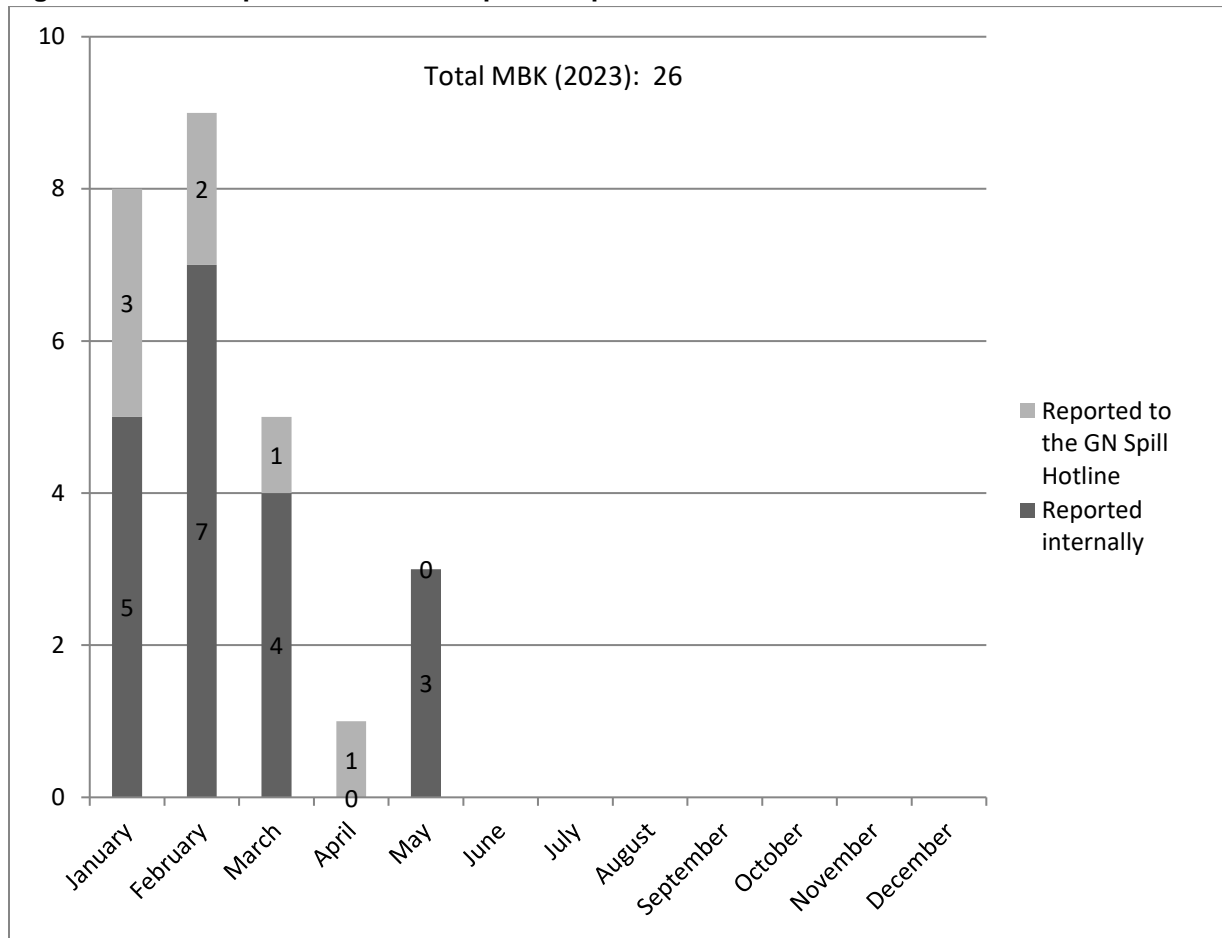


Table 3.1: Summary of Agnico Eagle Internal and Reported Spill Reports, May 2023

Date of Spill	Hazardous Material	Qty	Units (L / Kg)	Location	Cause of spill	Clean-up action taken
5/16/2023	Hydraulic Oil	5	L	Km 87 AWAR	Equipment failure	Contaminated soil was collected and brought to a yellow bin for disposal.
5/16/2023	Hydraulic Oil	10	L	Meadowbank Site	Equipment malfunction	Contaminated soil was collected and brought to a yellow bin for disposal.
5/24/2023	Hydraulic Oil	30	L	AWAR KM 61	Equipment failure	Contaminated soil was collected and brought to a yellow bin for disposal.