



AGNICO EAGLE

MEADOWBANK COMPLEX

Monitoring Program Summary Report

October 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	Feb	March	April	May	June
Camp	Third Portage Lake	2,500	2,859	2,954	3,071	3,200	2,927
Mill (freshwater tank)	Third Portage Lake	49,833	210,782	137,225	56,862	52,816	73,494
Emulsion plant	Unnamed Lake	48	14	89	64	36	13
Total Freshwater Usage (m³)		52,381	213,655	140,268	59,997	56,052	76,434
Ore Water (m³)	Ore	1,927	3,310	4,302	4,572	3,948	2,581
Reclaim Water Usage (m³)	Tailings Pond	266,541	72,375	214,517	249,495	240,145	250,371

Water Location	Source Lake	July	Aug	Sept	Oct	Total
Camp	Third Portage Lake	3,082	3,047	2,982	3,074	29,696
Mill (freshwater tank)	Third Portage Lake	70,603	77,975	78,385	61,162	869,137
Emulsion plant	Unnamed Lake	0	0	0	0	263
Total Freshwater Usage (m³)		73,685	81,022	81,367	64,236	899,096
Ore Water (m³)	Ore	2,453	1,971	2,644	3,795	31,503
Reclaim Water Usage (m³)	Tailings Pond	280,756	267,093	256,410	249,390	2,347,094

2.2 WASTE ROCK STORAGE FACILITY SEEPAGE

In October, a total of 865 m³ of water was pumped back to the North Cell TSF from the ST-16 sump. Of that amount, 698 m³ was transferred from WEP1 sump and 167 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 October, 81,989 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 October, 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 October.

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

Table 2.6.1: Seprotech Effluent Results

Parameters	Units	October 4, 2022
Unionized Ammonia (NH ₃)	mg N/L	0.067
Ammonia-Nitrogen (NH ₃ -NH ₄)	mg N/L	44
Total Kjeldahl Nitrogen	mg N/L	33
BOD-5	mg/L	78
COD	mg/L	48
Total Suspended Solids	mg/L	3
Nitrate	mg N/L	7.15
Nitrite	mg N/L	3.93
pH*	Units	6.90
Fecal Coliform	UFC/100 mL	4900
Total Coliform	UFC/100 mL	40000

*Parameter measured by STP operators

Table 2.6.2: LJ-Mix Effluent Results

Parameters	Units	October 4, 2022
Unionized Ammonia (NH ₃)	mg N/L	0.0010
Ammonia-Nitrogen (NH ₃ -NH ₄)	mg N/L	13
Total Kjeldahl Nitrogen	mg N/L	14
BOD-5	mg/L	6
COD	mg/L	52
Total Suspended Solids	mg/L	7
Nitrate	mg N/L	17.2
Nitrite	mg N/L	0.351
pH*	Units	5.20
Fecal Coliform	UFC/100 mL	74
Total Coliform	UFC/100 mL	<10

*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 October, water from the East Dike was discharged into Portage Pits.

2.10 NON-CONTACT WATER

In October, Agnico Eagle completed inspections at Portage Area East diversion ditch (ST-5) and West diversion ditch (ST-6). Portage Area East (ST-5) and West diversion ditches (ST-6) water quality results are shown in Tables 2.10.1 and 2.10.2, respectively.

TSS results for both stations did not exceed the maximum allowable grab sample concentration (30 mg/L) permitted by the Water License, Part F, Item 7. Both stations did not exceed the maximum average concentration (15 mg/L).

Table 2.10.1: Portage Area East Diversion Ditch (ST-5) Results

Parameters	Units	October 9, 2022
Total Suspended Solids (TSS)	mg/L	1

Table 2.10.2: Portage Area West Diversion Ditch (ST-6) Results

Parameters	Units	October 9, 2022
Total Suspended Solids (TSS)	mg/L	< 1

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 2022 broken down per month and Table 3.1 summarizes Agnico Eagle spill reports for October.

Two (2) reportable spills occurred on site during the month. 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

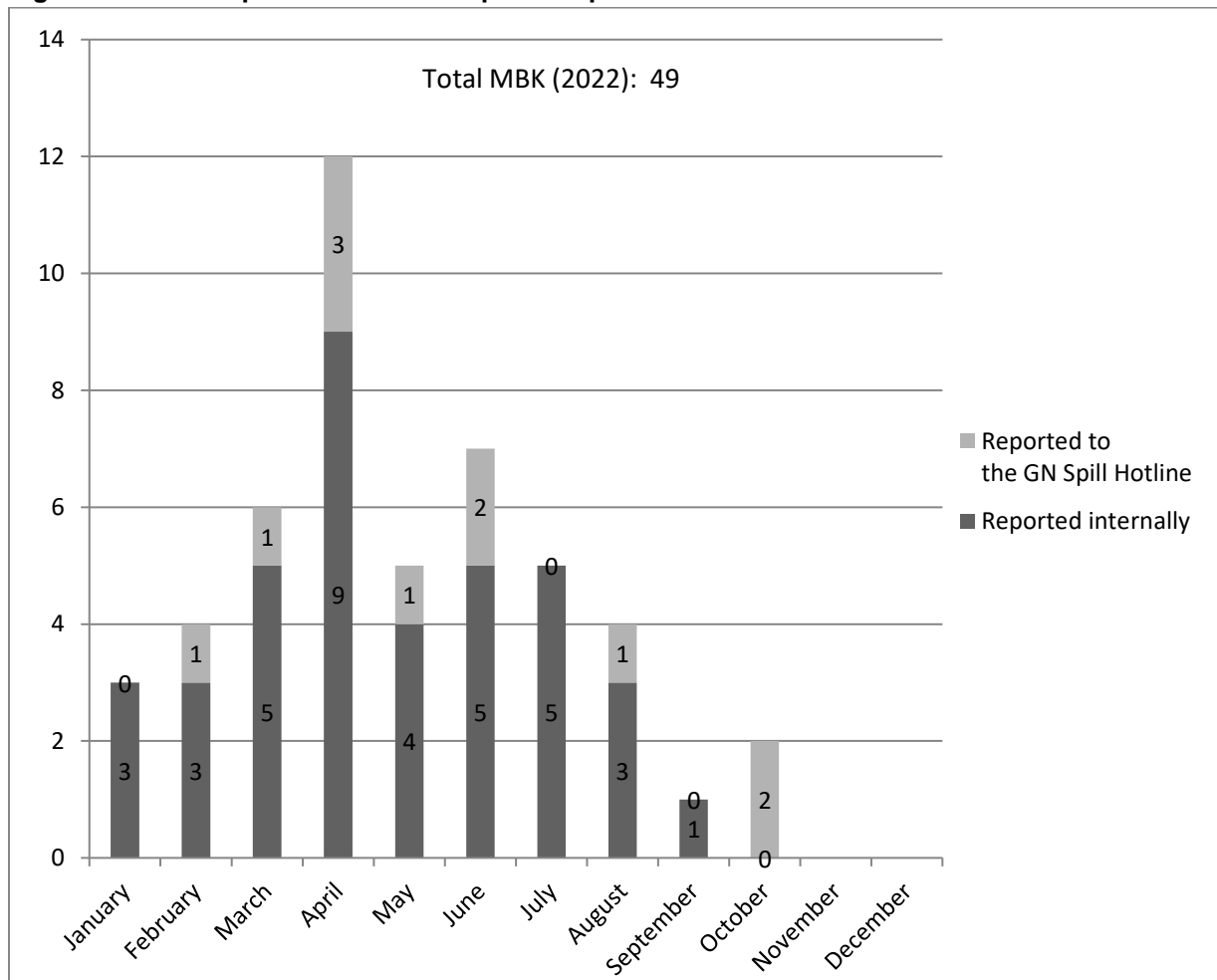


Table 3.1: Summary of Agnico Eagle Internal and Reported Spill Reports, October 2022

Date of Spill	Hazardous Material	Qty	Units (L / Kg)	Location	Cause of spill	Clean-up action taken
10/5/2022	Waste Oil	750	L	Oil Trailer	Punctured waste oil tote	The tote was flipped over to prevent additional oil from leaking out of the container and a berm was built to halt the spill from going further. Absorbent material was used to collect as much oil as possible before removing approximately 10 cubic meters of contaminated soil with an excavator. The contaminated material was brought to the Meadowbank landfarm
10/23/2022	Diesel Fuel	250	L	Meadowbank Fuel Farm	Fuelling procedure not followed	Spill pads were immediately placed on the ground and the contaminated snow and material was scraped up. Approximately 6 m ³ was collected and brought to the Meadowbank landfarm.