



MEADOWBANK COMPLEX

Monitoring Program Summary Report

November 2024

Type A Water License 2AM-MEA1530

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SECTION 1 • BACKGROUND

On June 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), an update to the In-Pit disposal and follow up to the AWAR spill at Km 87.

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

SECTION 2 • WATER MANAGEMENT

2.1 WATER USAGE

Freshwater 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	3,070	2,607	2,996	3,056	2,996	3,122
Mill (freshwater tank)	Third Portage Lake	67,195	67,265	68,740	73,895	78,772	93,042
Emulsion plant	Unnamed Lake	0	0	0	0	0	0
Total Freshwater Usage (m³)		70,265	69,872	71,736	76,951	81,768	96,164
Ore Water (m³)	Ore	4,895	3,611	3,713	2,800	4,141	3,424
Reclaim Water Usage (m³)	Tailings Pond	310,525	302,920	323,994	239,893	271,080	311,616

Water Location	Source Lake	July	Aug	Sept	Oct	Nov	Total
Camp	Third Portage Lake	2,976	2,848	2,708	2,877	2,515	31,771
Mill (freshwater tank)	Third Portage Lake	77,779	87,857	81,290	80,540	73,860	850,235
Emulsion plant	Unnamed Lake	0	0	0	0	0	0
Total Freshwater Usage (m³)		80,755	90,705	83,998	83,417	76,375	882,006
Ore Water (m³)	Ore	2,871	3,951	3,722	3,866	3,811	40,805
Reclaim Water Usage (m³)	Tailings Pond	305,019	307,092	315,016	249,557	306,559	3,243,271

2.2 WASTE ROCK STORAGE FACILITY SEEPAGE

In November, no water was pumped back to Portage Pit from the ST-16 sump. No sampling was completed at WEP1 (Station ST-30) or 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 November, 45,020 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 November, no water was pumped from the mill trench back to the mill due to frozen conditions. Routine inspections occurred 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 November. 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 November, no water was pumped from the Stormwater Management Pond to Portage Pits.

Table 2.6.1: Seprotech Effluent Results

Parameters	Units	11/4/2024
Unionized Ammonia (NH ₃)	mg N/L	0.39
Ammonia-Nitrogen (NH ₃ -NH ₄)	mg N/L	59
Total Kjeldahl Nitrogen	mg N/L	60
BOD-5	mg/L	6
COD	mg/L	59
Total Suspended Solids	mg/L	6
Nitrate	mg N/L	2.23
Nitrite	mg N/L	1.39
pH*	Units	7.20
Fecal Coliform	UFC/100 mL	< 10
Total Coliform	UFC/100 mL	2,900

*Parameter measured by STP operators

Table 2.6.2: LJ-Mix Effluent Results

Parameters	Units	11/4/2024
Unionized Ammonia (NH ₃)	mg N/L	0.0067
Ammonia-Nitrogen (NH ₃ -NH ₄)	mg N/L	5
Total Kjeldahl Nitrogen	mg N/L	7.5
BOD-5	mg/L	6
COD	mg/L	69
Total Suspended Solids	mg/L	54
Nitrate	mg N/L	21.3
Nitrite	mg N/L	0.016
pH*	Units	6.40
Fecal Coliform	UFC/100 mL	1,360
Total Coliform	UFC/100 mL	3,000

*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

Discharge to Second Portage Lake occurred for the entire month and a total of 8,012 m³ was discharged.

Four (4) weekly effluent samples were collected at ST-8 in November. 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 November are provided in Table 2.9.1 below.

Table 2.9.1 East Dike Seepage Results for TSS

Parameter	Unit	Sample Date				Monthly Average
		11/4/2024	11/11/2024	11/19/2024	11/25/2024	
Total Suspended Solids (TSS)	mg/L	1	< 1	2	< 1	1

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

Table 2.9.2: November Monthly Monitoring Results

Parameters	Unit	Sample Date	
		11/4/2024	11/25/2024
pH*	pH units	8.84	9.04
Aluminum	mg/L	0.0301	0.0255
Sulphate	mg/L	12	10
Arsenic	mg/L	0.00128	0.00124
Copper	mg/L	0.0017	0.00142
Nickel	mg/L	< 0.0010	< 0.0010
Lead	mg/L	< 0.00020	< 0.00020
Zinc	mg/L	< 0.0050	< 0.0050
Radium 226	mg/L	< 0.0050	< 0.0050
Total Cyanide	mg/L	< 0.00050	< 0.00050
Turbidity*	NTU	0.64	0.81
Un-Ionized Ammonia	mg/L	< 0.0029	< 0.0044

* 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 November 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 Pits for the month.

SECTION 3 • SPILL MANAGEMENT

Figure 3.1 shows reported and non-reported spills for 2024 broken down per month and Table 3.1 summarizes Agnico Eagle spill reports for November.

One (1) spill occurred on site during the month with none (0) being reported to regulators. Spills were contained and cleaned, contaminated material was disposed of in the appropriate area, and the clean-up actions were monitored closely by the Environment Department. There was no off-site impact to any watercourses.

One (1) unusual occurrence occurred on November 1, 2024: Following maintenance of the freshwater system at the Meadowbank Site, a leak was observed during the line inspection. Upon further investigation it was found that a gate valve on the line had failed resulting in ~40 m³ of freshwater to be released to the land ~60 m upstream from Third Portage Lake. A blank flange was immediately installed to stop the flow until the valve can be replaced. This instance was reported to the GN Spill Hotline (2024-514), however, following CIRNAC advisement this has been classified as a “non-spill”.

Figure 3.1 2024 Reported and Non-Reported Spills

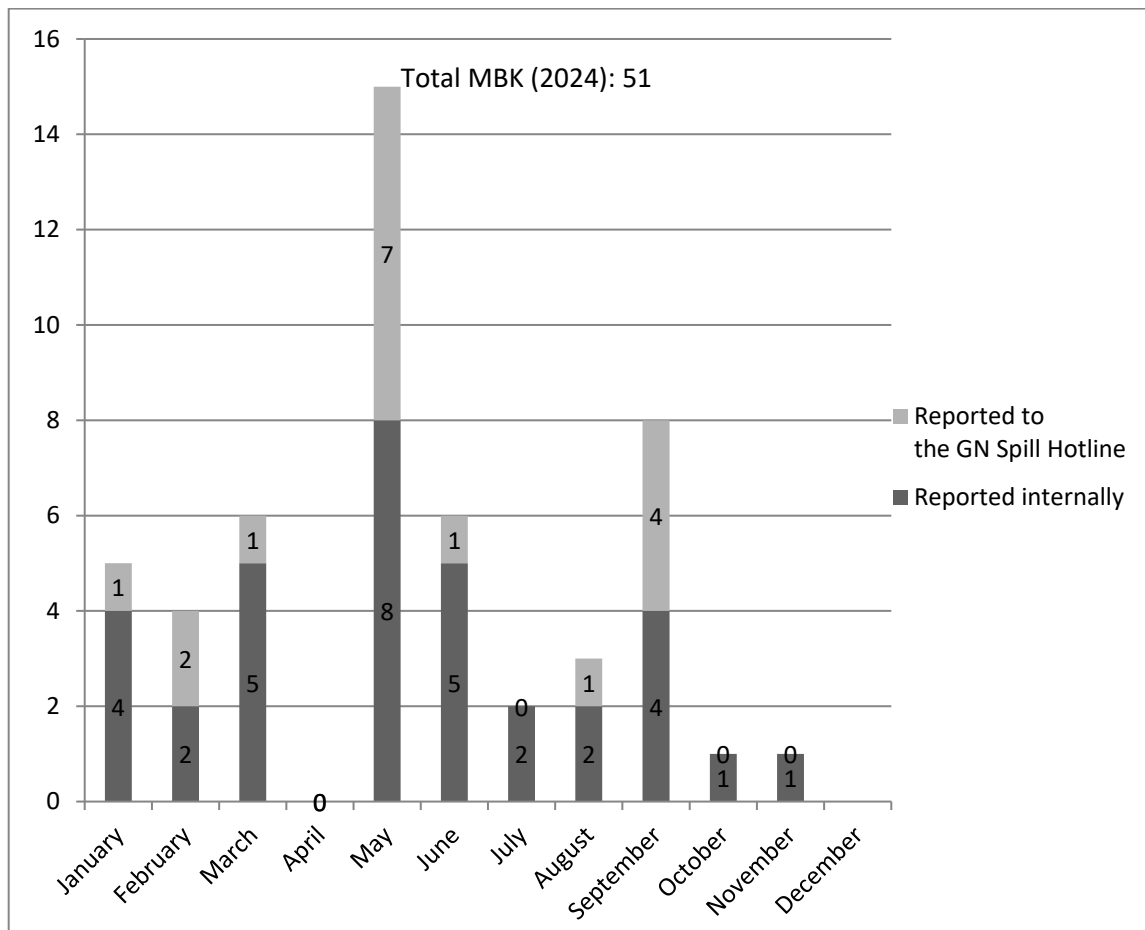


Table 3.1: Summary of Agnico Eagle Internal and Reported Spill Reports, November 2024

Date of Spill	Hazardous Material	Quantity	Units (L / Kg)	Location	Cause of spill	Clean-up action taken
11/20/2024	Diesel	20	L	AWAR KM 22	Equipment failure	Contaminated material was collected and placed in roll off bin for disposal at the Meadowbank landfarm.

3.1 KM 87 SPILL FOLLOW UP

In November, Agnico Eagle completed inspections at KM87 spill areas. No samples were collected during the month due to frozen conditions.