



MEADOWBANK DIVISION

Monitoring Program Summary Report

July 2021

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 and reclaim 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	July	Total
Camp	Third Portage Lake	2,639	2,334	2,376	2,297	2,536	2,408	2,665	17,255
Mill (freshwater tank)	Third Portage Lake	125,901	87,438	87,445	78,643	98,397	81,913	120,687	680,424
Emulsion plant	Unnamed Lake	104	90	127	118	133	64	115	752
Total Freshwater Usage (m³)		128,644	89,862	89,948	81,058	101,066	84,385	123,467	698,431
Ore Water (m³)	Ore	4,408	3,310	3,684	2,416	3,310	3,561	3,310	23,999
Reclaim Water Usage (m³)	Tailings Pond	237,647	205,445	277,684	171,821	209,538	237,348	194,844	1,534,327

2.2 WASTE ROCK STORAGE FACILITY SEEPAGE

In July, a total of 34,599 m³ of water was pumped back to the North Cell TSF from the ST-16 sump. Of that amount, 8,575 m³ was transferred from WEP1 sump and 5,769 m³ from WEP2 sump to the ST-16 sump.

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

2.3 CENTRAL DIKE SEEPAGE

In July, 155,319 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 Engineering Department, as well as daily monitoring of piezometric values.

2.4 ASSAY ROAD SEEPAGE

In July, 1,075 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 July.

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 July, a total of 8,980 m³ of water was pumped from the Stormwater Management pond to the tailings storage facility.

Table 2.6.1: Seprotech Effluent Results

Parameters	Units	July 5, 2021
Ammonia (NH ₃)	mg N/L	0.0011
Ammonia-Nitrogen (NH ₃ -NH ₄)	mg N/L	14
Total Kjeldahl Nitrogen	mg N/L	12
BOD-5	mg/L	4
COD	mg/L	39
Total Suspended Solids	mg/L	6
Nitrate	mg N/L	23.8
Nitrite	mg N/L	<0.010
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	July 5, 2021
Ammonia (NH ₃)	mg N/L	0.0025
Ammonia-Nitrogen (NH ₃ -NH ₄)	mg N/L	17
Total Kjeldahl Nitrogen	mg N/L	16
BOD-5	mg/L	15
COD	mg/L	42
Total Suspended Solids	mg/L	20
Nitrate	mg N/L	38.4
Nitrite	mg N/L	0.015
pH*	Units	5.60
Fecal Coliform	UFC/100 mL	10
Total Coliform	UFC/100 mL	<1000

*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

No water was discharged from the East Dike to Second Portage Lake during the month. In the month of July, water from the East Dike was discharged into Pit E.

2.10 NON CONTACT WATER

In July, Agnico Eagle completed inspections at Portage Area East diversion ditch (ST-5) and West diversion ditch (ST-6) as part of the 2021 Freshet Management Plan. 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	July 6, 2021
Total Suspended Solids	mg/L	1

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

Parameters	Units	July 5, 2021	July 26, 2021
Total Suspended Solids	mg/L	<1	3

2.11 IN-PIT DISPOSAL

In-Pit tailings disposal occurred 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 2021 broken down per month and Table 3.1 summarizes Agnico Eagle spill reports for July.

Two (2) 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. There was no off-site impact to any watercourses.

Figure 3.1 2021 Reported and Non-Reported Spills

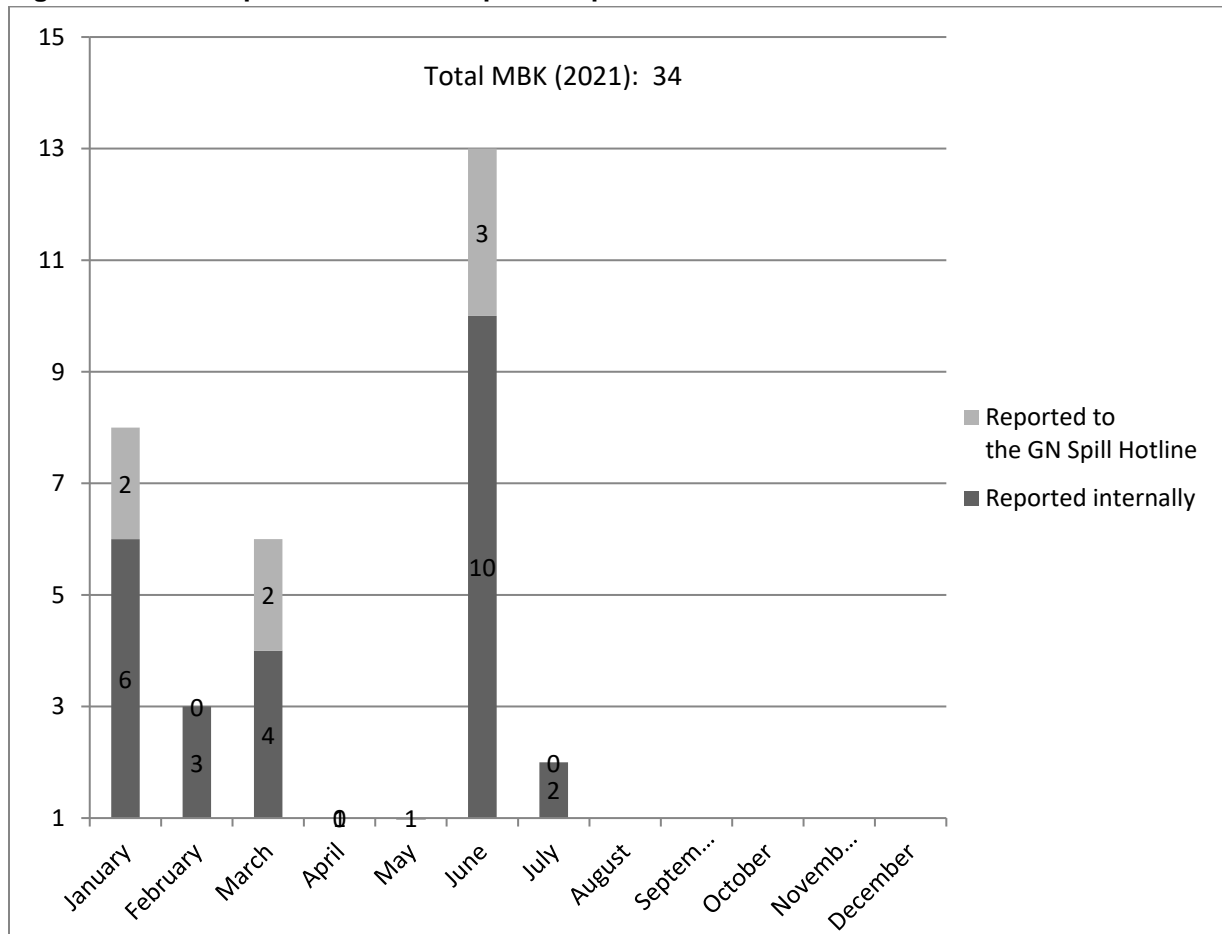


Table 3.1: Summary of Agnico Eagle Internal and Reported Spill Reports, July 2021

Date of Spill	Hazardous Material	Qty	Units (L / Kg)	Location	Cause of spill	Clean-up action taken
7/4/2021	Hydraulic Oil	5	L	E&I office parking MBK	Cracked hydraulic hose	Absorbent pads were put in place. Contaminated soil was removed and adequately disposed of.
7/5/2021	Hydraulic Oil	80	L	MBK Winter Parking	Unknown leak was discovered on Komatsu 08	Contaminated soil was removed and adequately disposed of.