



MEADOWBANK DIVISION

Monitoring Program Summary Report

September 2020

Type A Water License 2AM-MEA1530

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SECTION 1 • BACKGROUND

On May 13, 2020, Agnico received the minister 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 discharge water quality, Phaser Attenuation Pond, 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 In-Pit disposal update.

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 September 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	3,612	3,264	3,141	2,155	2,484	2,807
Mill (freshwater tank)	Third Portage Lake	220,085	229,949	270,242	219,998	231,334	130,128
Emulsion plant	Unnamed Lake	67	76	75	70	114	83
Total Freshwater Usage (m³)		223,764	233,289	273,458	222,223	233,932	133,018
Ore Water (m³)	Ore	4,668	3,821	2,306	0	534	5,737
Reclaim Water Usage (m³)	Tailings Pond	0	0	0	0	864	185,144

Water Location	Source Lake	July	Aug	Sept	Total
Camp	Third Portage Lake	2,966	2,634	2,467	25,530
Mill (freshwater tank)	Third Portage Lake	183,029	170,286	144,040	1,799,091
Emulsion plant	Unnamed Lake	137	116	110	845
Total Freshwater Usage (m³)		186,132	173,036	146,617	1,825,466
Ore Water (m³)	Ore	4,895	3,585	3,135	28,681
Reclaim Water Usage (m³)	Tailings Pond	152,428	161,914	202,706	703,056

2.2 WASTE ROCK STORAGE FACILITY SEEPAGE

In September, a total of 23,699 m³ of water was pumped back to the North Cell TSF from the ST-16 sump. Of that volume, 7,992 m³ of water was pumped from WEP1 and 3,160 m³ was pumped from WEP2.

Agnico Eagle completed inspections in September at the Portage and Vault RSFs, no non-conformities were found. Open water sampling at WEP1 (Station ST-30) and WEP2 (Station ST-31) were also completed during the month.

2.3 CENTRAL DIKE SEEPAGE

In September, 59,329 m³ of water was pumped from ST-S-5 sump to Portage Pit.

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 the monitoring of piezometric values daily.

2.4 ASSAY ROAD SEEPAGE

In September, a total of 1,873 m³ of water was pumped from the mill trench back to the mill. No non-conformities were found.

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 September.

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 is discharged to the Stormwater Management pond. In September, 12,312 m³ water was discharged from the Stormwater Management pond.

Table 2.6.1: Seprotech Effluent Results

Parameters	Units	September 7, 2020
Ammonia (NH ₃)	mg N/L	0.41
Ammonia-Nitrogen (NH ₃ -NH ₄)	mg N/L	35.58
Total Kjeldahl Nitrogen	mg N/L	41
BOD-5	mg/L	11
COD	mg/L	72
Total Suspended Solids	mg/L	22
Nitrate	mg N/L	3.98
Nitrite	mg N/L	1.12
pH*	Units	7.0
Fecal Coliform	UFC/100 mL	40
Total Coliform	UFC/100 mL	10,000

*Parameter measured by STP operators

Table 2.6.2: LJ-Mix Effluent Results

Parameters	Units	September 7, 2020
Ammonia (NH ₃)	mg N/L	<0.01
Ammonia-Nitrogen (NH ₃ -NH ₄)	mg N/L	11.79
Total Kjeldahl Nitrogen	mg N/L	11
BOD-5	mg/L	3
COD	mg/L	52
Total Suspended Solids	mg/L	18
Nitrate	mg N/L	25.3
Nitrite	mg N/L	0.1
pH*	Units	5.7
Fecal Coliform	UFC/100 mL	20
Total Coliform	UFC/100 mL	2,000

*Parameter measured by STP operators

2.7 VAULT ATTENUATION POND EFFLUENT

No discharge has occurred from the Vault Attenuation Pond since October 9, 2017. There is currently no plan to restart the discharge in 2020.

2.8 PHASER ATTENUATION POND

No water was pumped from the Phaser Attenuation Pond in September.

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

2.9 EAST DIKE SEEPAGE EFFLUENT

The discharge to Second Portage Lake was stopped on June 5 2020 due to an increasing TSS trend. Water was discharged for the whole month of September in Portage Pit. Water quality is monitored regularly and discharge will restart once Agnico is confident that the water quality will meet the Water License and MDMER regulatory limits.

2.10 NON CONTACT WATER

Portage Area East diversion ditch (ST-5) and West diversion ditch (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) or the maximum average concentration (15 mg/L) permitted by the Water License Part F, Item 7.

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

Parameters	Units	September 8, 2020
Total Suspended Solids	mg/L	3

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

Parameters	Units	September 9, 2020
Total Suspended Solids	mg/L	1

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 of September.

SECTION 3 • SPILL MANAGEMENT

Figure 3.1 shows reported and non-reported spills for 2020 broken down per month and Table 3.1 summarizes Agnico Eagle spill reports for September.

One (1) spill occurred in September and was reported to regulators. The spill was contained and clean-up actions are ongoing and are monitored closely by the Environment Department. There was no off-site impact to any watercourses.

Figure 3.1 2020 Reported and Non-Reported Spills

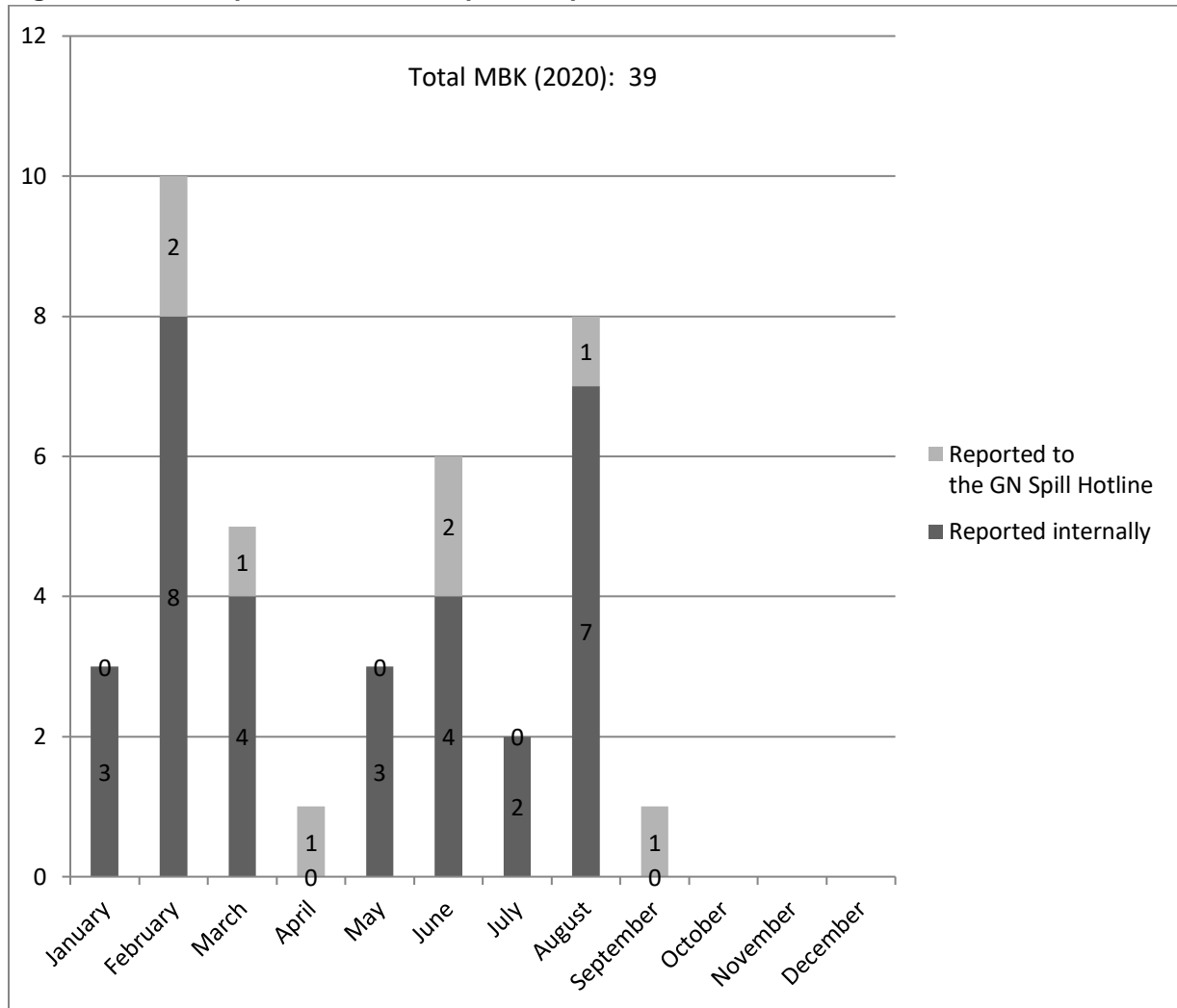


Table 3.1: Summary of Agnico Eagle Internal and Reported Spill Reports, September 2020

Date of Spill	Hazardous Material	Qty	Units (L / Kg)	Location	Cause of spill	Clean-up action taken
September 22, 2020	Diesel Fuel	TBD	L	Baker Lake Fuel Farm, Tank 5	During a routine inspection at the Baker Lake Farm, fuel was observed in the secondary containment of fuel tanks 5 & 6. After further inspection, a small fuel leak was observed on Tank 5.	An investigation including corrective actions to empty and repair the fuel tank are underway. The spill was all captured within the secondary containment of tanks 5 and 6 and will be removed and brought to Meadowbank. Volume of spill and contaminated material collected is TBD.