



MEADOWBANK DIVISION

Monitoring Program Summary Report

November 2020

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 November 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	Oct	Nov	Total
Camp	Third Portage Lake	2,966	2,634	2,467	2,584	2,526	30,640
Mill (freshwater tank)	Third Portage Lake	183,029	170,286	144,040	145,024	79,589	2,023,704
Emulsion plant	Unnamed Lake	137	116	110	168	162	1,175
Total Freshwater Usage (m³)		186,132	173,036	146,617	147,776	82,276	2,055,518
Ore Water (m³)	Ore	4,895	3,585	3,135	2,606	3,429	34,716
Reclaim Water Usage (m³)	Tailings Pond	152,428	161,914	202,706	164,427	240,836	1,108,319

2.2 WASTE ROCK STORAGE FACILITY SEEPAGE

In November, no water was pumped back to the North Cell TSF from the ST-16 sump. No sampling was completed at WEP1 (Station ST-30) and 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, 30,903 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 daily monitoring of piezometric values.

2.4 ASSAY ROAD SEEPAGE

In November, no 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 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.

No water was pumped from the Stormwater Management pond to the tailings storage facility during the month.

Table 2.6.1: Seprotech Effluent Results

Parameters	Units	November 4, 2020
Ammonia (NH ₃)	mg N/L	0.34
Ammonia-Nitrogen (NH ₃ -NH ₄)	mg N/L	33.0
Total Kjeldahl Nitrogen	mg N/L	34
BOD-5	mg/L	6
COD	mg/L	56
Total Suspended Solids	mg/L	13
Nitrate	mg N/L	4.40
Nitrite	mg N/L	1.03
pH*	Units	6.90
Fecal Coliform	UFC/100 mL	25
Total Coliform	UFC/100 mL	7000

*Parameter measured by STP operators

Table 2.6.2: LJ-Mix Effluent Results

Parameters	Units	November 4, 2020
Ammonia (NH ₃)	mg N/L	<0.01
Ammonia-Nitrogen (NH ₃ -NH ₄)	mg N/L	12
Total Kjeldahl Nitrogen	mg N/L	13
BOD-5	mg/L	6
COD	mg/L	34
Total Suspended Solids	mg/L	10
Nitrate	mg N/L	25.7
Nitrite	mg N/L	0.10
pH*	Units	5.10
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 2020.

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 of November and a total of 8,401 m³ was discharged.

Five (5) weekly effluent samples were collected at ST-8 in November 2020. 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
		11/02/2020	11/09/2020	11/16/2020	11/23/2020	11/30/2020	
Total Suspended Solids	mg/L	4	2	4	6	4	4

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 2020 Monthly Monitoring Results

Parameter	Unit	Sample Date
		11/02/2020
pH*	-	7.50
Aluminum	mg/L	0.036
Sulphate	mg/L	6.5
Arsenic	mg/L	0.0010
Copper	mg/L	0.0006
Nickel	mg/L	<0.0005
Lead	mg/L	0.0006
Zinc	mg/L	<0.001
Radium 226	mg/L	<0.002
Total Cyanide	mg/L	<0.001

* 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

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 2020 broken down per month and Table 3.1 summarizes Agnico Eagle spill reports for November.

One (1) spill occurred in November with zero (0) reported to regulators. The spill was contained and clean-up actions were monitored closely by the Environment Department. There was no off-site impact to any watercourses.

Figure 3.1 2020 Reported and Non-Reported Spills

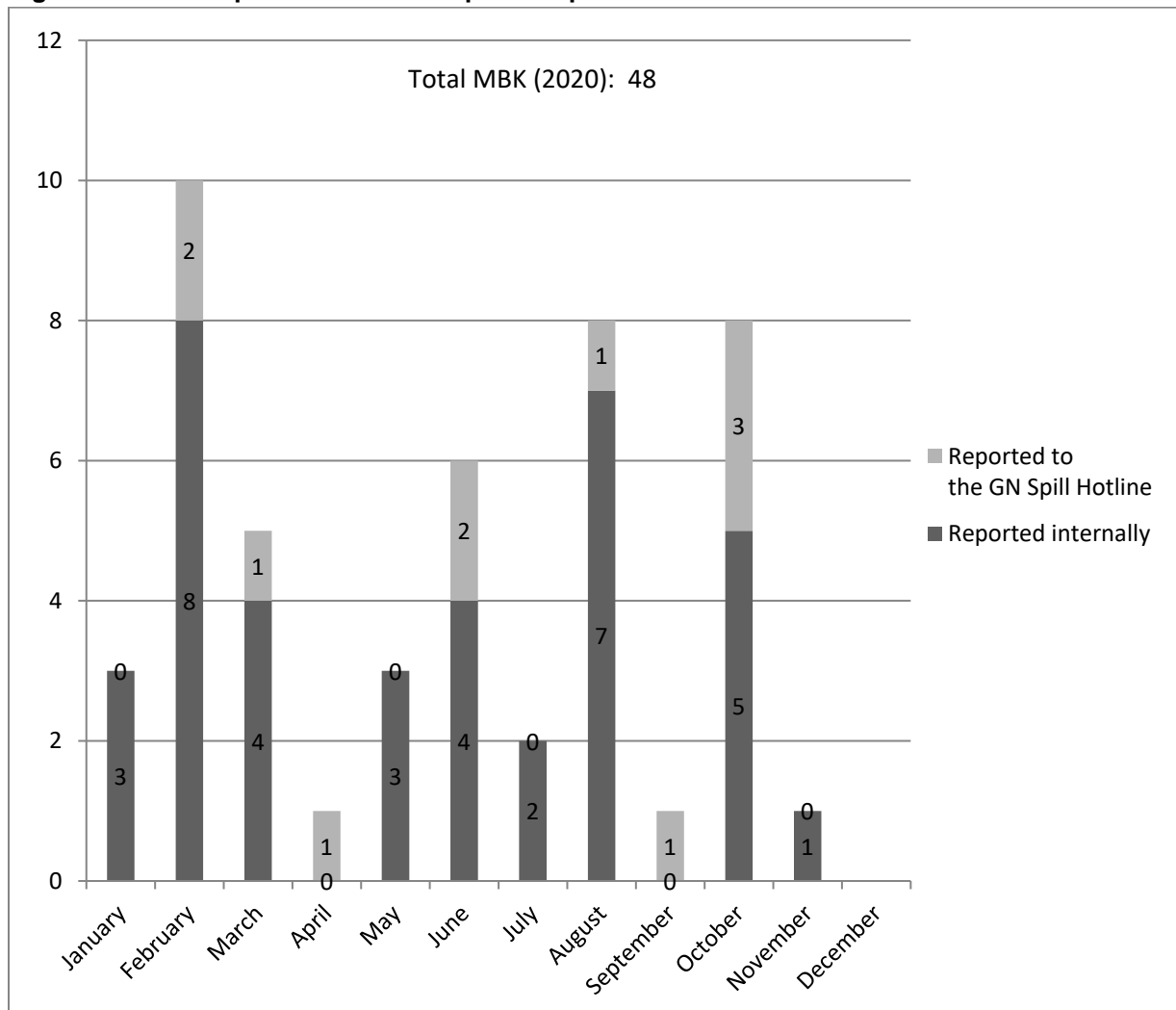


Table 3.1: Summary of Agnico Eagle Internal and Reported Spill Reports, November 2020

Date of Spill	Hazardous Material	Qty	Units (L / Kg)	Location	Cause of spill	Clean-up action taken
November 18, 2020	Hydraulic Oil	50	L	Old Portage Washroom Area	Hydraulic hose failure	Contaminated material was removed and put in the landfarm at MBK.