



MEADOWBANK DIVISION

Monitoring Program Summary Report

February 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 February is summarized in Table 2.1 below.

Table 2.1: Freshwater Usage (m³)

Water Location	Source Lake	Jan	Feb	Total
Camp	Third Portage Lake	2,639	2,334	4,973
Mill (freshwater tank)	Third Portage Lake	125,901	87,438	213,339
Emulsion plant	Unnamed Lake	104	90	194
Total Freshwater Usage (m³)		128,644	89,862	218,506
Ore Water (m³)	Ore	4,408	3,310	7,718
Reclaim Water Usage (m³)	Tailings Pond	237,647	205,445	443,092

2.2 WASTE ROCK STORAGE FACILITY SEEPAGE

In February, 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 February, 16,402 m³ of water was pumped from ST-S-5 sump to Portage Pit A.

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 February, 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 February.

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	February 2, 2021
Ammonia (NH ₃)	mg N/L	0.02
Ammonia-Nitrogen (NH ₃ -NH ₄)	mg N/L	31.41
Total Kjeldahl Nitrogen	mg N/L	31
BOD-5	mg/L	21
COD	mg/L	47
Total Suspended Solids	mg/L	3
Nitrate	mg N/L	38.7
Nitrite	mg N/L	0.46
pH*	Units	6.5
Fecal Coliform	UFC/100 mL	10
Total Coliform	UFC/100 mL	2200

*Parameter measured by STP operators

Table 2.6.2: LJ-Mix Effluent Results

Parameters	Units	February 2, 2021
Ammonia (NH ₃)	mg N/L	0.14
Ammonia-Nitrogen (NH ₃ -NH ₄)	mg N/L	29.45
Total Kjeldahl Nitrogen	mg N/L	31
BOD-5	mg/L	2
COD	mg/L	34
Total Suspended Solids	mg/L	11
Nitrate	mg N/L	13.8
Nitrite	mg N/L	0.47
pH*	Units	6.8
Fecal Coliform	UFC/100 mL	220
Total Coliform	UFC/100 mL	52000

*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

Discharge to Second Portage Lake occurred for the entire month of February and a total of 7,332 m³ was discharged.

Four (4) weekly effluent samples were collected at ST-8 in February 2021. 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 the month are provided in Table 2.9.1 below.

Table 2.9.1: East Dike Seepage Results for TSS

Parameter	Unit	Sample Date				Monthly Average
		02/01/2021	02/08/2021	02/15/2021	02/22/2021	
Total Suspended Solids	mg/L	5	10	6	6	6.6

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

Table 2.9.2: February 2021 Monthly Monitoring Results

Parameter	Unit	Sample Date
		02/01/2021
pH*	-	7.42
Aluminum	mg/L	0.0878
Sulphate	mg/L	6.2
Arsenic	mg/L	0.00086
Copper	mg/L	0.00109
Nickel	mg/L	<0.001
Lead	mg/L	<0.0002
Zinc	mg/L	<0.005
Radium 226	mg/L	<0.005
Total Cyanide	mg/L	<0.005

* 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 February 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 2021 broken down per month and Table 3.1 summarizes Agnico Eagle spill reports for February.

Three (3) spills occurred in February with none reported to regulators. The spills were contained, and clean-up actions were monitored closely by the Environment Department. There were no off-site impact to any watercourses.

Figure 3.1 2021 Reported and Non-Reported Spills

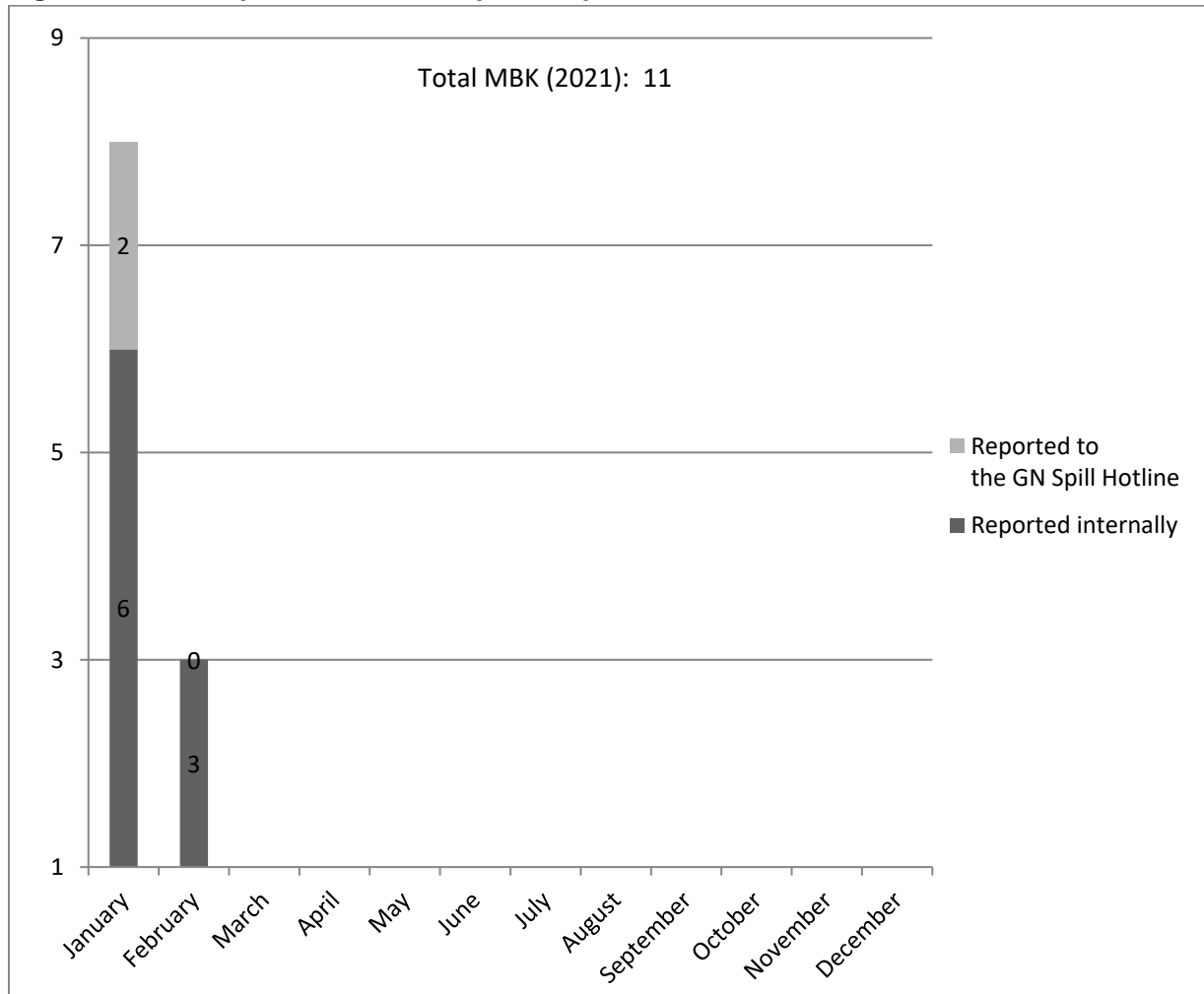


Table 3.1: Summary of Agnico Eagle Internal and Reported Spill Reports, February 2021

Date of Spill	Hazardous Material	Qty	Units (L / Kg)	Location	Cause of spill	Clean-up action taken
2/18/2021	Diesel Fuel	50	L	Downline parking dome side	Fuel filter not on tight enough	Shut off engine, spill was contained, absorbent pads were used, and contaminated snow picked up and disposed of appropriately.
2/18/2021	Used Oil	35	L	Oil Trailer	Used oil tote punctured by zoom boom	Contaminated material was cleaned and adequately disposed of in yellow roll off bin.
2/25/2021	Diesel Fuel	80	L	Meadowbank Truck Shop Yard (dome side)	A solenoid had fallen out of a brass fitting causing fuel to leak out of the tank onto the ground	The leak was stopped, a spill kit was used to contain the spill and E&I was contacted to scrape the area up and dispose of the contaminated snow. Contaminated snow picked up and disposed of in the landfarm.