



WHALE TAIL PROJECT

Monitoring Program Summary Report

November 2020

Type A Water License 2AM-WTP1830

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SECTION 1 • BACKGROUND

On May 13, 2020, Agnico received the minister's approval for the Water License 2AM-WTP1830 Amendment No.1. 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 22 of Type A Water License 2AM-WTP1830, this report documents the water management and monitoring activities at the mine site for the month. This includes water usage, water and seepage monitoring around site, sewage treatment plant discharge, Whale Tail Attenuation Pond discharge and dewatering discharges.

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

SECTION 2 • WATER MANAGEMENT

2.1 WATER USAGE

Fresh water usage for November is summarized in Table 2.1 below

Table 2.1: November 2020 – Freshwater Usage (m³)

Water Location	Source Lake	Jan	Feb	March	April	May	June
Camp	Nemo	2,062	2,184	2,317	1,485	1,845	2,013
Construction/Operation	Nemo	1,518	1,840	1,284	879	1,967	1,039
Dust Suppression	Nemo / WTHR Pond	0	0	0	0	0	0
Explosive	Mammoth Lake	0	0	0	0	0	0
Drilling	Proximal Sources	0	0	0	0	0	0
Total Freshwater Usage (m³)		3,579	4,024	3,601	2,364	3,812	3,052

Water Location	Source Lake	July	Aug	Sept	Oct	Nov	Total
Camp	Nemo	2,187	2,424	2,620	2,709	2,745	24,590
Construction/Operation	Nemo	498	1,533	1,935	1,261	1,031	14,786
Dust Suppression	Nemo / WTHR Pond	1,500	0	0	0	0	1,500
Explosive	Mammoth Lake	0	0	0	0	0	
Drilling	Proximal Sources	0	0	0	0	0	
Total Freshwater Usage (m³)		4,184	3,958	4,555	3,970	3,777	40,876

2.2 LAKE WATER MONITORING

Lakes around the Whale Tail Project were not monitored during the month of November due to the lakes being frozen. Lakes are only monitored during open water conditions as per the Water Licence.

2.3 WHALE TAIL SOUTH CHANNEL

The Whale Tail South Channel was frozen in November, no sampling at station ST-WT-13 was conducted during the month. Sampling is to be conducted during open water conditions as per the Water License.

2.4 WHALE TAIL DIKE SEEPAGE MONITORING

Seepage at the toe of Whale Tail dike was still observed during the month. Agnico continues to manage seepage water from WTD as part of the Whale Tail Attenuation Pond.

Seepage water quality is monitored as per requirements of the Water License. The sampling station is ST-WT-17 and is sampled minimally on a monthly basis for Group 1 parameters.

2.5 SEWAGE TREATMENT PLANT

Effluent from the sewage treatment plant is discharged to the Whale Tail Attenuation Pond. As per Water License Schedule I Sampling Station ST-WT-11, effluent is to be sampled four times per calendar year. Agnico is currently sampling the STP monthly and thus a sample was taken in November. A total of 2,762 m³ was discharged during the month.

2.6 WHALE TAIL ATTENUATION POND

Water from the Whale Tail Attenuation Pond was discharged to Whale Tail South using the temporary diffuser on November 1 for a total discharge volume of 2,471 m³. The discharge was stopped on November 1 to November 6 when it was restarted using the Whale Tail South permanent diffuser. Discharge via the Whale Tail South permanent diffuser continued for the remainder of the month with a total discharge volume of 211,801 m³.

Water was treated by the Water Treatment Plant before discharge. A total of 214,272 m³ was discharged from the Whale Tail Attenuation Pond to Whale Tail South during the month of November.

As per Water License Part F Item 5, the effluent from this discharge shall not exceed the limits detailed in Table 2.6.1 and 2.6.2 below. No non-compliance of Water License or MDMER criteria was observed during the month.

Table 2.6.1: Whale Tail Attenuation Pond Discharge to Whale Tail South Temporary Diffuser (ST-WT-24a)

Parameter	Maximum Authorized Concentration Grab Sample	Maximum Authorized Monthly Mean Concentration	Unit	Sample Date	Monthly Average
				11/01/2020	
Field Measured					
pH	6.0 - 9.5	6.0 - 9.5	pH units	6.8	6.8
Conventional Parameters					
Total suspended solids	30	15	mg/L	6	6
Nutrients					
Total phosphorus	0.6	0.3	mg/L	0.076	0.076
Total ammonia (NH3-N)	32	16	mg/L	0.79	0.79
General Organics					
Total Petroleum hydrocarbons (TPH)	6	3	mg/L	<0.1	0.05
Total Metals					
Aluminum	1	0.5	mg/L	0.036	0.036
Arsenic	0.2	0.1	mg/L	0.0018	0.0018
Cadmium	0.004	0.002	mg/L	<0.00002	0.00001
Chromium	0.04	0.02	mg/L	<0.0006	0.0014
Copper	0.2	0.1	mg/L	0.0021	0.0019
Iron	2	1	mg/L	0.46	0.64
Lead	0.1	0.05	mg/L	<0.0003	0.00015
Mercury	0.008	0.004	mg/L	<0.00001	0.000005
Nickel	0.5	0.25	mg/L	0.0037	0.0037
Zinc	0.2	0.1	mg/L	0.006	0.006

Table 2.6.2: Whale Tail Attenuation Pond Discharge to Whale Tail South Permanent Diffuser (ST-WT-24b)

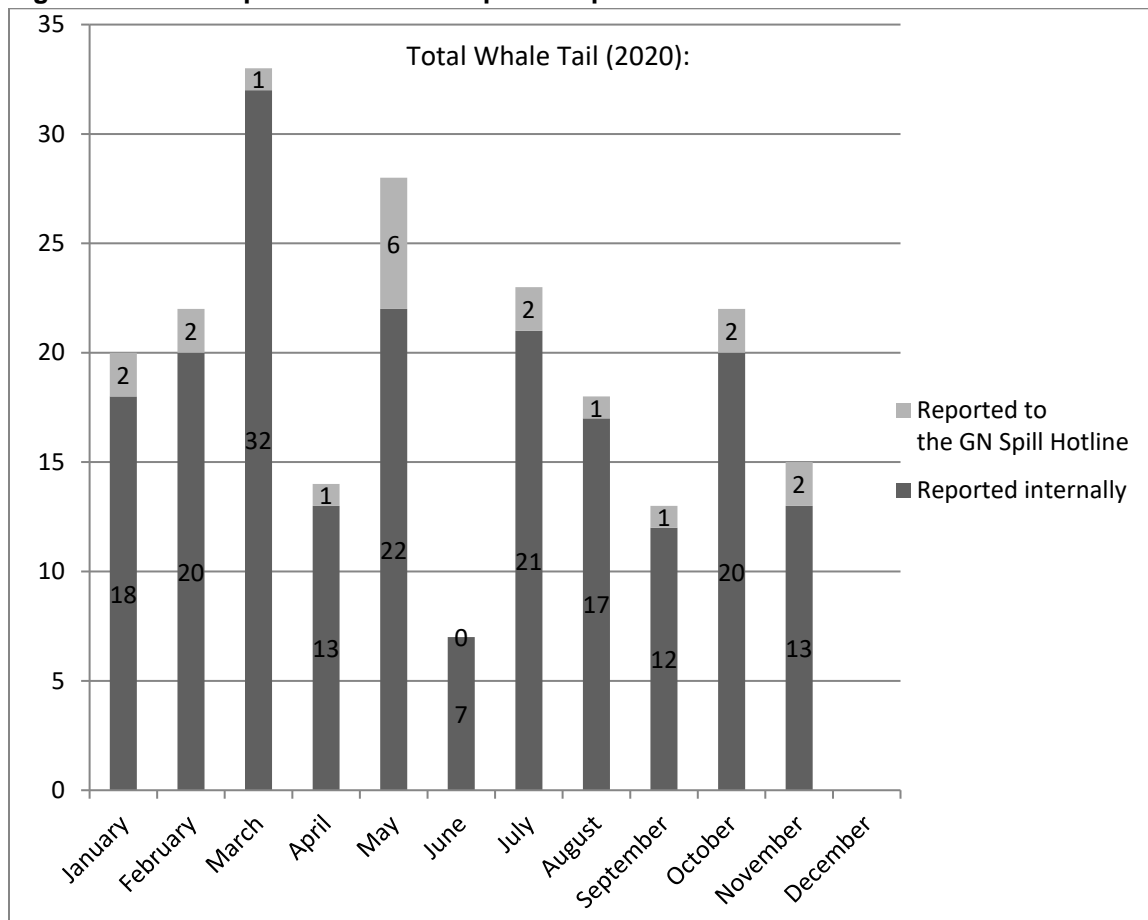
Parameter	Maximum Authorized Concentration Grab Sample	Maximum Authorized Monthly Mean Concentration	Unit	Sample Date				Monthly Average
				11/7/2020	11/9/2020	11/16/2020	11/23/2020	
Field Measured								
pH	6.0 - 9.5	6.0 - 9.5	pH units	7.11	7.2	7.25	7.33	7.26
Conventional Parameters								
Total suspended solids	30	15	mg/L	2	4	3	4	4
Nutrients								
Total phosphorus	0.6	0.3	mg/L	<0.04	<0.04	<0.04	NA	0.02
Total ammonia (NH3-N)	32	16	mg/L	1.9	2.2	1.33	0.8	1.44
General Organics								
Total Petroleum hydrocarbons (TPH)	6	3	mg/L	<0.1	<0.1	0.5	<0.1	0.1625
Total Metals								
Aluminum	1	0.5	mg/L	0.02	0.028	0.026	0.042	0.029
Arsenic	0.2	0.1	mg/L	0.0025	0.0025	0.001	0.0019	0.0020
Cadmium	0.004	0.002	mg/L	0.00006	0.00006	<0.00002	<0.00002	0.00004
Chromium	0.04	0.02	mg/L	0.0008	<0.0006	0.0007	<0.0006	0.0005
Copper	0.2	0.1	mg/L	0.004	0.0043	<0.0005	0.0012	0.0024
Iron	2	1	mg/L	0.59	0.52	0.42	0.5	0.51
Lead	0.1	0.05	mg/L	<0.00017	<0.00017	<0.00017	<0.00017	0.000085
Mercury	0.008	0.004	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	0.000005
Nickel	0.5	0.25	mg/L	0.0057	0.0063	0.0044	0.0036	0.005
Zinc	0.2	0.1	mg/L	0.006	0.005	0.003	<0.001	0.004

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.

All spills reported internally (13) were managed appropriately on site according to Agnico's spill contingency plan. Two (2) spills were reported to regulators in November. 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 2020 Reported and Non-Reported Spills



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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 7, 2020	Hydraulic Oil	50	L	SANA Heavy Equipment Parking	Hydraulic hose failure	Contaminated material was removed and adequately disposed of.
November 8, 2020	Hydraulic Oil	10	L	IVR Pit	Hydraulic hose failure	Contaminated material was removed and put in the yellow bin.
November 12, 2020	Diesel	10	L	WTHR	Fuel line failure	Spill pads were used to contain the spill. Contaminated material was removed and adequately disposed of in the yellow bin.
November 12, 2020	Sewage	5	L	Sewage Treatment Plant	Pipe broke during emptying of sewage truck. The pipe broke due to it being frozen then thawed with a torch.	Contaminated material was adequately disposed of.
November 13, 2020	Hydraulic Oil	40	L	Whale Tail Pit	Hydraulic hose failure	Contaminated material was removed and put in the yellow bin.
November 14, 2020	Hydraulic Oil	8	L	Underground Near Bay #3	Hydraulic hose failure	Contaminated material was disposed of in a quatrex bag
November 18, 2020	Hydraulic Oil	55	L	IVR Ring Road	Hydraulic hose failure	Contaminated material was removed and put in the yellow bin.
November 20, 2020	Transmission Oil	85	L	Winter Parking	Broken O-ring on transmission oil filter	Contaminated material was removed and put in the yellow bin.
November 20, 2020	Contaminated Water	60	L	Wing 12 of Camp	Broken pipe.	Contaminated material was adequately disposed of.
November 20, 2020	Hydraulic Oil	50	L	Whale Tail Pit	Steering cylinder leak	Contaminated material was removed and disposed of in the yellow bin.
November 22, 2020	Oil	40	L	Whale Tail Pit	Cap not placed on line during maintenance, oil from in the line spilled onto the ground.	Contaminated material was removed and disposed of in the yellow bin.
November 25, 2020	Coolant	375	L	Whale Tail Pit	Fan hub failure causing broken radiator	Contaminated material was removed and placed in a roll-off bin then disposed of in the Tailings Storage Facility at MBK.
November 26, 2020	Hydraulic Oil	189	L	Whale Tail Pit	Hydraulic hose failure	Contaminated material was removed and adequately disposed of.
November 28, 2020	Hydraulic Oil	90	L	IVR Pit	Hydraulic hose failure	Contaminated material was removed and disposed of in the yellow bin.
November 30, 2020	Hydraulic Oil	20	L	Whale Tail Pit	Hydraulic hose failure	Contaminated material was removed and disposed of in quatrex bags.