



WHALE TAIL PROJECT

## **Monitoring Program Summary Report**

**July 2020**

Type A Water License 2AM-WTP1830

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## **SECTION 1 • BACKGROUND**

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On May 13, 2020, Agnico received the minister 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 North Basin dewatering, Whale Tail Attenuation Pond discharge and Whale Tail South Basin water transfer.

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

## SECTION 2 • WATER MANAGEMENT

### 2.1 WATER USAGE

Fresh water usage for July is summarized in Table 2.1 below

**Table 2.1: July 2020 – Freshwater Usage (m<sup>3</sup>)**

Water Location	Source Lake	Jan	Feb	March	April	May	June	July	Total
Camp	Nemo	2 062	2 184	2 317	1 485	1 845	2 013	2 187	14 092
Construction/Operation	Nemo	1 518	1 840	1 284	879	1 967	1 039	498	9 025
Dust Suppression	Nemo / WTHR Pond	0	0	0	0	0	0	1 500	1 500
Explosive	Mammoth Lake	0	0	0	0	0	0	0	
Drilling	Proximal Sources	0	0	0	0	0	0	0	
<b>Total Freshwater Usage (m<sup>3</sup>)</b>		<b>3 579</b>	<b>4 024</b>	<b>3 601</b>	<b>2 364</b>	<b>3 812</b>	<b>3 052</b>	<b>4 184</b>	<b>24 617</b>

### 2.2 LAKE WATER MONITORING

Lake around the Whale Tail Project were monitored on a monthly basis during the open water season. In July, monthly samples were taken at Lake A47 (ST-WT-6), Lake A16 (ST-WT-14) and Lake A15 (ST-WT-15).

### 2.3 WHALE TAIL SOUTH CHANNEL

Whale Tail South Channel was operational in July. No issues to report.

### 2.4 WHALE TAIL DIKE SEEPAGE MONITORING

In July, seepage at the toe of Whale Tail dike was still observed. Agnico continue to manage water from WTD seepage as part of the Whale Tail Attenuation Pond.

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

### 2.5 SEWAGE TREATMENT PLANT

Effluent from the sewage treatment plan is discharged to the Whale Tail Attenuation Pond. As per Water License Schedule I Sampling Station ST-WT-11, effluent is to be sample four time per calendar year. Agnico is currently sampling the STP on a monthly basis and thus sample was taken in July. A total of 2,173 m<sup>3</sup> was discharged during the month.

### 2.6 WHALE TAIL ATTENUATION POND

Water from the Whale Tail Attenuation Pond discharged during the whole month of July in Mammoth Lake East Diffuser. Water was treated by the Water Treatment Plan before discharge. A total of 321,603 m<sup>3</sup> was discharged to Mammoth Lake.

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

**Table 2.6.1: Whale Tail Attenuation Pond Discharge to Mammoth Lake East Diffuser (ST-WT-2a)**

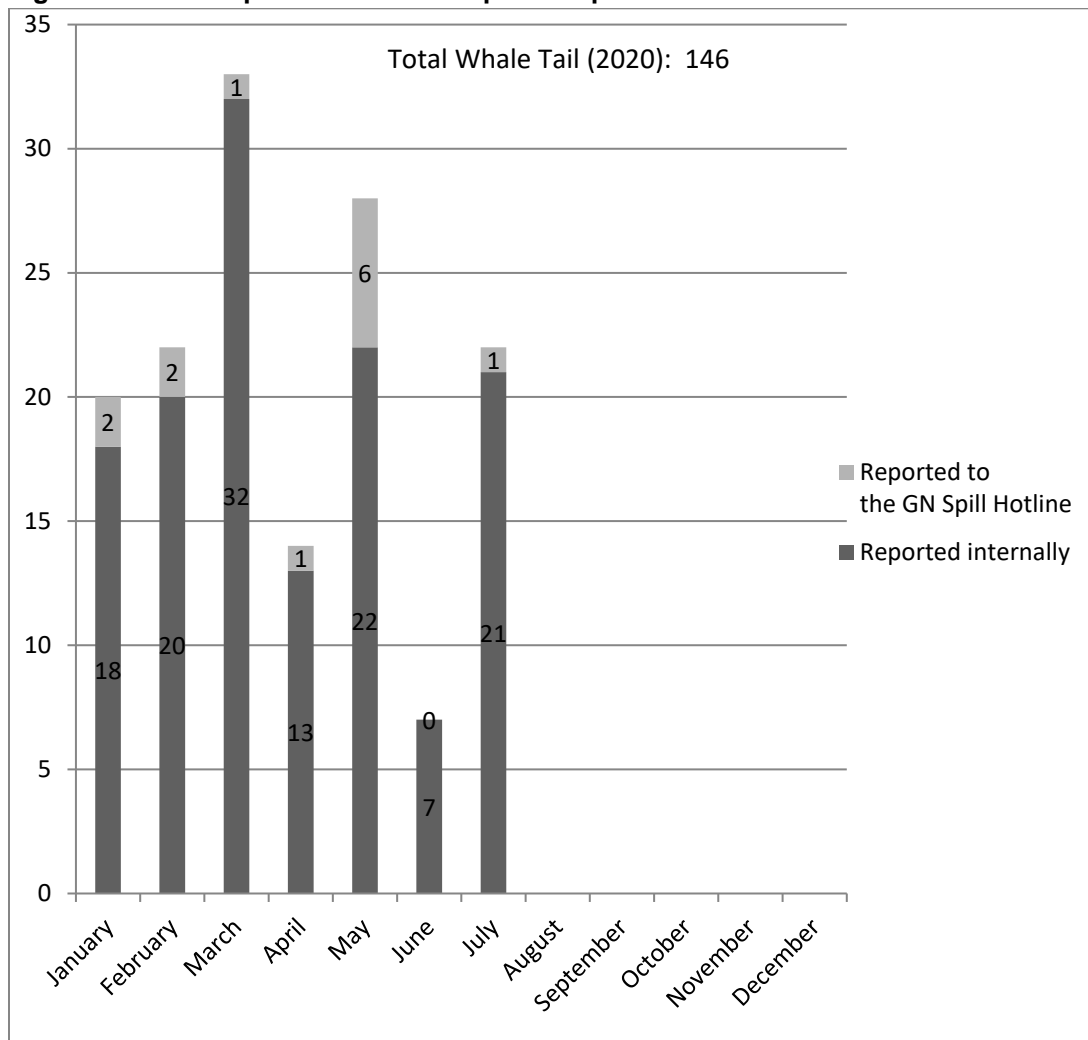
Parameter	Maximum Authorized Concentration Grab Sample	Maximum Authorized Monthly Mean Concentration	Unit	Sample Date				Average
				2020-07-07	2020-07-12	2020-07-20	2020-07-26	
Field Measured								
pH	6.0 - 9.5	6.0 - 9.5	pH units	6.60	7.22	7.15	7.10	7.02
Conventional Parameters								
Total suspended solids	30	15	mg/L	6	4	5	4	4.75
Nutrients								
Total phosphorus	0.6	0.3	mg/L	< 0.01	< 0.04	< 0.01	< 0.01	0.035
Total ammonia (NH3-N)	32	16	mg/L	1.78	2.1	4.78	1.4	2.52
General Organics								
Total Petroleum hydrocarbons (TPH)	6	3	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	0.05
Total Metals								
Aluminum	1	0.5	mg/L	< 0.006	< 0.006	0.018	< 0.006	0.027
Arsenic	0.2	0.1	mg/L	0.0056	0.0046	0.0043	0.0011	0.0039
Cadmium	0.004	0.002	mg/L	<0.00002	<0.00002	<0.00002	<0.00002	0.00001
Chromium	0.04	0.02	mg/L	< 0.0006	< 0.0006	< 0.0006	< 0.0006	0.0003
Copper	0.2	0.1	mg/L	0.0042	0.0028	0.0054	0.0040	0.0041
Iron	2	1	mg/L	0.69	0.43	0.47	0.48	0.52
Lead	0.1	0.05	mg/L	< 0.0003	< 0.0003	< 0.0003	< 0.0003	0.00015
Mercury	0.008	0.004	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	0.000005
Nickel	0.5	0.25	mg/L	0.0247	0.0208	0.0365	0.0158	0.0245
Zinc	0.2	0.1	mg/L	0.009	0.002	0.01	0.011	0.008

### 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 July.

All spills reported internally (22) were managed appropriately on site according to Agnico's spill contingency plan. Of that amount, one (1) spill was reported to regulators in July. 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**



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

Date of Spill	Hazardous Material	Qty	Units (L / Kg)	Location	Cause of spill	Clean-up action taken
July 1, 2020	Sewage	50	L	Sewage treatment plant	The main sewage line was blocked at the entrance of the STP, in order to find / fix the blockage, we had to un-flange the pipe. Even with the valves closed, the sewage in the line was released on the ground	Vacuum truck used to picked up most of the sewage on the ground. The remaining will be cleaned up with a excavator and disposed off adequately
July 2, 2020	Transmission Oil	35	L	Ring Road	Transmission oil failure	Stopped the engine and called the dispatch for repair. Spill was contained and contaminated soil picked up and disposed in the yellow contaminate bin.
July 3, 2020	Hydraulic Oil	10	L	Phase 2	Equipment failure	Stopped the engine and called the dispatch for repair. Spill was contained and contaminated soil picked up and disposed in the contaminated bin.
July 4, 2020	Engine Oil	3	L	Preshear 5109PSW81 near Phase two ramp	Engine hose failure	Mechanic was called to repair the equipment. Spill was contained and contaminated soil picked up and disposed in the yellow bin behind the U/G shop
July 4, 2020	Hydraulic Oil	75	L	Whale Tail Pit	Hydraulic hose failure	Spill was contained and contaminated soil picked up and disposed in the contaminated bin.
July 5, 2020	Hydraulic Oil	5	L	Phase 1	Transmission failure	Spill was contained and contaminated soil picked up and disposed in the contaminated bin.
July 6, 2020	Hydraulic Oil	80	L	Remuck 18 Underground ramp	Hydraulic hose failure	Spill pads were placed on ground to collect spilled material and disposed off adequately in quatrex contaminated material.

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July 8, 2020	Motor Oil	5	L	5109PSW60 east of Phase2 area	Compressor hose failure	Engine was shut down and mechanic put absorb pads on the ground. Spill was contained and contaminated soil picked up and disposed in the yellow contaminated bin behind the hazmat area.
July 8, 2020	Diesel	200	L	AMQ RD KM148	Yoke on the driveline broke and punctured a hole in the passenger side fuel tank	Maintenance to complete repairs. Spill was contained and contaminated soil picked up and disposed in the contaminated bin.
July 8, 2020	Hydraulic Oil	10	L	5116MSW16 (Phase 2)	O'ring failure	Operator shut off engine to limit he spill. Spill was contained and contaminated soil picked up and disposed in the contaminated bin.
July 10, 2020	Diesel	50	L	Tire check for LHT at AMQ	Fuel tank cracked	Maintenance to complete repairs. Spill was contained and contaminated soil picked up and disposed in the contaminated bin.
July 11, 2020	Diesel	5	L	near fountain tire shop	Fuel hose loosen	Put absorbent pads on the ground and tight the loosen collar. Spill was contained and contaminated soil picked up and disposed in the waste contaminated bin.
July 12, 2020	Hydraulic Oil	85	L	Amaruq pit Phase 2	Hydraulic hose failure	Operator shut off engine to limit he spill. Spill was contained and contaminated soil picked up and disposed in the contaminated bin.
July 13, 2020	Hydraulic Oil	50	L	LA290	Hydraulic hose failure	Used spill kit. Spill was contained and contaminated soil picked up and disposed in the contaminated bin.



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July 13, 2020	Hydraulic Oil	90	L	Phase 3	Equipment failure	Operator went to a safe area and shut off engine to limit the spill. Spill was contained and contaminated soil picked up and disposed in the contaminated bin.
July 17, 2020	Diesel	40	L	Whale Tail Pit pattern 5123RAW53	Fuel breather blocked	Spill was contained and contaminated soil picked up and disposed in the contaminated bin.
July 22, 2020	Hydraulic Oil	1	L	LA290 SMP01	Hydraulic oil on the ground after hose change	Spill was contained and contaminated rock was cleaned up and disposed of appropriately in quatrex bag in underground service dome
July 22, 2020	Hydraulic Oil	75	L	LA290 face	Hydraulic hose failure	Spill was contained and contaminated soil was disposed of appropriately In the contaminated soil bin
July 26, 2020	Hydraulic Oil	4	L	RMK18	Equipment failure	Spill was contained and spill pads disposed of properly in the quatrex bag at service dome
July 29, 2020	Hydraulic Oil	10	L	North of pattern 5116MSW54	Hydraulic hose failure	The engine was shut down immediately and mechanic was called to repair hose. Spill was contained and contaminated soil picked up and disposed in the yellow contaminated bin.
July 30, 2020	Hydraulic Oil	40	L	5109MSW45	O'ring failure	Equipment was stopped and mechanics went and changed the O ring. Spill was contained and contaminated soil picked up and disposed in the yellow contaminated bin.
July 30, 2020	Diesel	10	L	LHT washroom pad	Fuel tank leaking	Spill was contained and contaminated soil picked up and disposed off adequately