



WHALE TAIL PROJECT

Monitoring Program Summary Report

January 2019

Type A Water License 2AM-WTP1826

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SECTION 1 • BACKGROUND

As required under Part I, Item 23 of Type A Water License 2AM-WTP1826, this report documents the water management and monitoring activities at the mine site for the month. This includes water usage, water monitoring around site, sewage treatment plan discharge and Whale Tail Dike and Mammoth construction monitoring.

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

SECTION 2 • WATER MANAGEMENT

2.1 WATER USAGE

All water withdrawals related to Exploration activities is currently managed by Part C Item 1 of the Exploration Water License 2BB-MEA1828. All of the information regarding the use under this License 2BB-MEA1828 will be provided via the Annual Report required by Part B Item 6.

Agnico Eagle is authorized as per Part E Item 1 of the Water License 2AM-WTP1826 to intake water from Nemo Lake for a total year to date of 240,000 m³/year. A total volume of 2,589 m³ was withdrawn from Nemo Lake in January. Details are provided in Table 2.1.1 below.

Table 2.1.1: January 2019 – Freshwater Consumption

Water Location	Source Lake	Jan	Total
Camp	Nemo	1,922	1,922
Construction/Operation	Nemo	667	667
Dust Suppression	NA	0	0
Total Freshwater Usage (m³)		2,589	2,589

2.2 LAKE A47 WATER MONITORING

No monitoring sample at Lake A47 (ST-WT-6) was collected in January due to frozen condition.

2.3 LAKE A15 WATER MONITORING

No monitoring sample at Lake A15 (ST-WT-15) was collected in January due to frozen condition.

2.4 LAKE A16 OUTLET WATER MONITORING

No monitoring sample at Lake A16 (ST-WT-14) was collected in January due to frozen condition.

2.5 SEEPAGE MONITORING

No seepage has been observed in January around the site.

2.6 SEWAGE TREATMENT PLANT

Effluent from the Sewage Treatment Plan (STP) is discharged to the Whale Tail Lake North Basin and is monitored as per the Water License 2BB-MEA1828 Part D Item 10. Agnico still considers the camp and all the facilities associated to be Amaruq Exploration Camp. All of the information regarding this discharge will be provided via the Annual Report required by 2BB-MEA1828 Part B Item 6.

Agnico plans to have a Sewage Treatment Plan associated with the Water License 2AM-WTP1826 operational in Q2 2019.

2.7 WHALE TAIL DIKE CONSTRUCTION

The construction of Whale Tail Dike started on July 27, 2018 and the rockfill placement was completed in August. Since the in-water rockfill placement was completed, the turbidity curtains (3) installed downstream of the dike has been removed in September 2018. The two (3) turbidity curtain north side of the dike are still in place. Secant wall installation completed early December 2018. Grout curtain of the Whale Tail Dike was ongoing in January.

The fishout of the Whale Tail North Basin was stopped on September 29 because conditions did not permit safe continuation of work. Discussions are ongoing with ECCC. The complete report will be provided with the Whale Tail Annual Report.

In accordance with the Water License 2AM-WTP1826 Part D Item 6 and the Water Quality Monitoring and Management Plan for Dike Construction and Dewatering, the monitoring of the TSS level at four (4) locations downstream of the dike is based on the strong relation TSS-Turbidity which permit real time results. The in-water work construction was completed, thus the water quality monitoring was reduced to a weekly (when weather permitted) depth profile turbidity readings. The have been taken at these locations and compared to the maximum monthly mean and short term maximum limit detailed in 2AM-WTP1826 Part D Item 6. No TSS exceedance has been observed in January as shown in Table 2.7.1 below.

Table 2.7.1: Whale Tail Dike TSS Downstream monitoring station based on TSS-Turbidity relation

Date	Station	1	2	3	4	5	6	7	8	Max TSS 24H (mg/L)	Mean TSS 24H (mg/L)	TSS 7 Day Mean (mg/L)	TSS 30 Day Mean (mg/L)
Limit (mg/L)										50	50	15	15
2019-01-09	ST-WT-DC1	0.000	0.268	0.117						0.268	0.129	0.315	0.180
	ST-WT-DC2	0.000	0.000	0.000	0.000	0.000				0.000	0.000	0.232	0.157
	ST-WT-DC3	0.108	0.559	0.421	0.316					0.559	0.351	0.777	0.288
	ST-WT-DC4	Probe malfunction								NA	NA	NA	NA
2019-01-15	ST-WT-DC1	Probe malfunction								0.196	0.172	0.297	0.192
	ST-WT-DC2	Probe malfunction								0.020	0.005	0.232	0.173
	ST-WT-DC3	Probe malfunction								3.404	2.367	0.727	0.293
	ST-WT-DC4	Probe malfunction								0.000	0.000	0.256	0.293
2019-01-16	ST-WT-DC1	Probe malfunction								NA	NA	NA	NA
	ST-WT-DC2	0.000	0.000	0.000	0.000	0.000	0.000			0.000	0.000	0.266	0.138
	ST-WT-DC3	0.000	0.000	0.000						0.000	0.000	0.899	0.273
	ST-WT-DC4	0.104	0.445	0.318						0.445	0.289	0.408	0.277

2.8 MAMMOTH DIKE CONSTRUCTION

Blasting Activities for Mammoth Dike Construction are planned to start at the beginning of February. In January, only snow removal to expose foundation has been completed.

In accordance with the Water License 2AM-WTP1826 Part D Item 6 and the Water Quality Monitoring and Management Plan for Dike Construction and Dewatering, the monitoring of TSS level in Mammoth Lake will start as soon as the dike construction starts.

SECTION 3 • SPILL MANAGEMENT

Figure 3.1 shows reported and non-reported spills for 2019 broken down per month and Table 3.1 summarizes Agnico Eagle spill reports for January.

All spills reported internally (15) were managed appropriately on site according to Agnico's spill contingency plan. Four (4) spills were reported to regulators in January. 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 2019 Reported and Non-Reported Spills

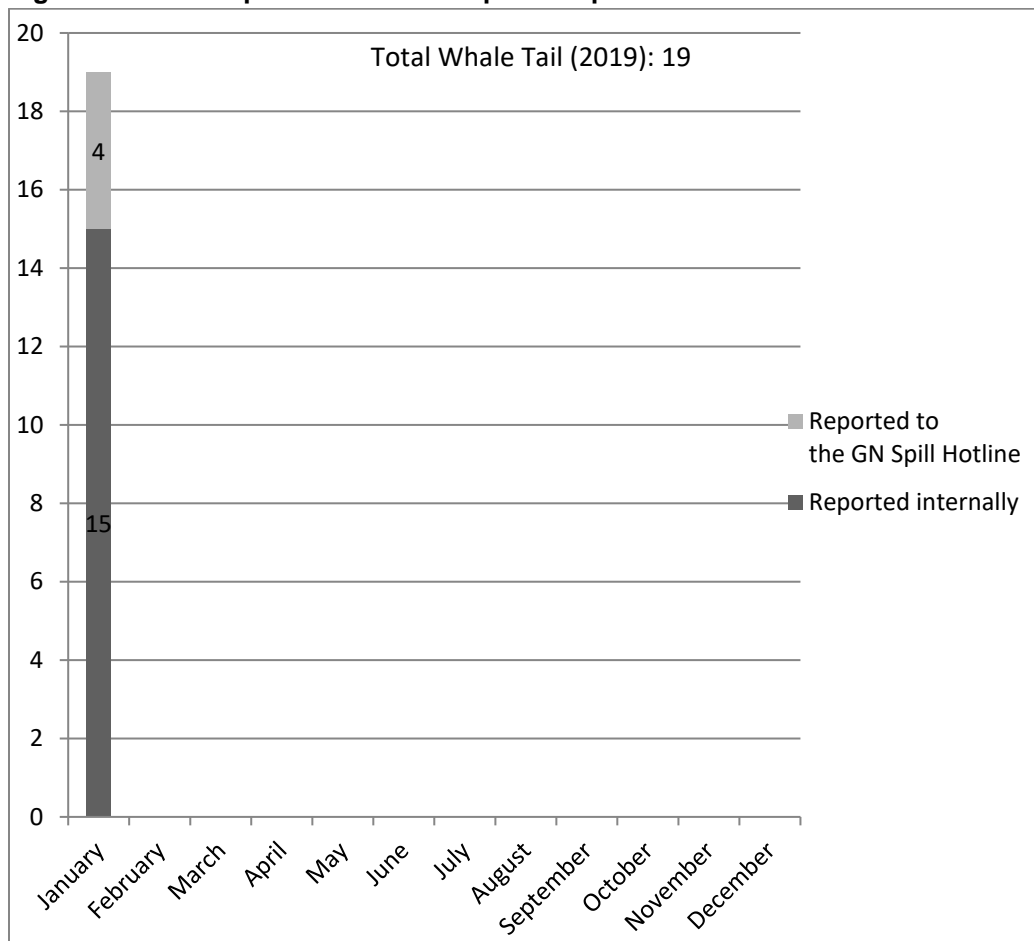


Table 3.1: Summary of Agnico Eagle Internal and Reported Spill Reports, January 2019

Date of Spill	Hazardous Material	Qty	Units (L / Kg)	Location	Cause of spill	Clean-up action taken
January 1, 2019	Hydraulic Oil	150	L	Whale Tail Waste Rock Storage Facility	Hydraulic hose failure	Contaminated soil picked up and disposed of appropriately
January 6, 2019	Hydraulic Oil	80	L	Whale Tail Quarry 2	O-ring failure	Spill was contained and contaminated soil picked up and disposed of appropriately
January 9, 2019	Diesel	40	L	Whale Tail Quarry 2	Worker was going to emptied the water tank but started emptying the fuel tank by mistake.	Spill was contained and contaminated soil picked up and disposed of appropriately
January 13, 2019	Hydraulic Oil	40	L	Whale Tail Primary Crusher oversize stock pile#3	Loose hose on hammer	Spill was contained and contaminated soil picked up and disposed of appropriately
January 15, 2019	Fecal Coliform	0	L	Sewage Treatment Plan	A result of 4000 CFU/100ml of Fecal Coliform was received for a treated waste water effluent discharge sample taken on January 15 th	Inspection of the STP to assessed the performance
January 18, 2019	Hydraulic Oil	20	L	Whale Tail Quarry 2	Hydraulic hose on the boom busted	Contaminated soil picked up and disposed of appropriately
January 20, 2019	Hydraulic Oil	10	L	Whale Tail Waste Rock Storage Facility	Skid plate failure	Contaminated soil picked up and disposed of appropriately
January 21, 2019	Hydraulic Oil	18	L	Whale Tail PAD Q	Hydraulic hose failure	Contaminated soil picked up and disposed of appropriately

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January 22, 2019	Hydraulic Oil	3	L	Whale Tail Main Camp	Hydraulic hose failure	Contaminated soil picked up and disposed of appropriately
January 24, 2019	Hydraulic Oil	5	L	Whale Tail Maintenance	Hydraulic hose failure	Contaminated soil picked up and disposed of appropriately
January 25, 2019	Hydraulic Oil	3	L	Whale Tail Haul Road km 118	Hydraulic fitting failure	Used absorbent pad and repair the equipment. Contaminated soil picked up and disposed of appropriately
January 25, 2019	Hydraulic Oil	15	L	Whale Tail FGL	Equipment failure	Contaminated soil picked up and disposed of appropriately
January 25, 2019	Glycol	60	L	Whale Tail Maintenance	The connector opened on the tote of the service truck #45	Contaminated soil picked up and disposed of appropriately
January 25, 2019	Sewage Water	100	L	Whale Tail STP	Truck tank overflow	Stopped the equipment. Contaminated soil picked up and disposed of appropriately
January 26, 2019	Coolant	50	L	Whale Tail Quarry 2	Coolant hose failure	Contaminated soil picked up and disposed of appropriately
January 27, 2019	Engine Oil	5	L	Whale Tail North Lake	5 liters of the engine oil got in contact with the ice of the lake following equipment failure	Equipment was stopped. Absorbent pads were laid out over the spill then were collected and disposed of appropriately
January 28, 2019	Hydraulic Oil	60	L	Whale Tail Quarry 2	Equipment failure	Contaminated soil picked up and disposed of appropriately

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January 29, 2019	Hydraulic Oil	15	L	Whale Tail Quarry 2	Equipment failure	Stopped the equipment and called for repair. Contaminated soil picked up and disposed of appropriately
January 29, 2019	Coolant	65	L	Whale Tail Quarry 2	Coolant hose failure	Equipment was stopped. Absorbent pads were laid out over the spill then were collected and disposed of appropriately