



Meliadine Gold Project
NWB 2BB-MEL1424
November 2018 Monthly Report

Prepared for:
Nunavut Water Board

Prepared by:
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December 11th, 2018

This monthly report is delivered under water license 2BB-MEL1424, PART J, Item 13.

1. The Licensee shall maintain Monitoring Stations at the following locations:

Table 1: Monitoring stations

Monitoring Station	Description	Status
MEL-1	Raw water supply intake at Meliadine Lake	Active (Volume m ³)
MEL-2	Raw water supply intake at Pump, A8 or other Lakes	Active (Volume m ³)
MEL-5	Point of discharge for the Bermed Fuel Containment Facilities	Inactive
MEL-6	Effluent from the Landfarm Treatment Facility prior to release	Active
MEL-7	Final Effluent Discharge from the BIODISK treatment system	Active (no direct discharge)
MEL-8	Point of discharge or runoff from the Non-Hazardous Waste landfill	Inactive

2. The Licensee shall measure and record, in cubic metres, the daily quantities of water utilized for camp, drilling and other purposes from all sources.

Table 2: Water quantities utilized (average)

MEL-1 ¹	Camp	m ³ /day	31.39
	Pump Shack	m ³ /day	5.68
	Construction	m ³ /day	0.00
MEL-2 (A8) ²	Underground	m ³ /day	0.00
	Drilling	m ³ /day	0.00
Not MEL-1 or MEL-2	Drilling	m ³ /day	33.40
Daily Average		m ³ /day	66.24
Total		m ³	2119,72
Total 2018		m ³	19,482

3. The Licensee shall measure and record the volume of all soil from all locations entering the Landfarm Treatment Facility.

In November 2018, no material was deposited in the Type B landfarm. Decommissioning of this Landfarm will commence in Q2 2019. Any new contaminated soil generated will be deposited in the Landfarm approved in the Type A Water License.

¹ MEL-1: 541943E, 6989174N

² MEL-2 (A8): 540076E, 6987731N

- 4. The Licensee shall assess and record the concentration of F1 – F4 fractions in petroleum hydrocarbon contaminated soil, according to the CCME Canada-Wide Standard for Petroleum Hydrocarbons (PHC) in Soil that is entering the Land Treatment Unit from all sources and excavations.**

No contaminated soil was deposited in November, 2018 therefore no samples were taken.

- 5. The Licensee shall provide the GPS coordinates (in decimal degrees) of all locations where wastes associated with camp operations and exploration activities are deposited.**

No more waste from camp operations and exploration is deposit in locations related to Licence 2BB-MEL1424

- 6. Licensee shall sample at Monitoring Program Station MEL-7, monthly during wastewater effluent discharge. Samples shall be analyzed for the parameters listed under Part D Item 11:**

pH

Biochemical Oxygen Demand – BOD5

Total Suspended Solids (TSS)

Fecal Coliforms

Oil and Grease (and visual)

The STP upgrade and maintenance program was initiated in November 2017. The effluent, treated at the exploration STP is trucked to and discharged into CP1. Agnico continued to monitor the quality of the effluent; 4 samples were collected during the month. The summary of the results is provided in Table 4 below.

Table 4: Effluent testing results at STP-FINAL (MEL-7) sampling station, November 2018

Parameters	Limits	11/05	11/12	11/19	11/26
Biochemical Oxygen Demand, mg/L	80	<2	3	7	12
pH	6.0 - 9.5	6.91	7.08	7.61	7.67
Total Suspended Solids, mg/L	100	2	1	4	10
Oil and Grease, mg/L	<0.5	2.9	0.9	1.6	0.5
Atypical	-	160	<10	130	400,000
Fecal Coliforms (CFU/100mL)	1000	<2	<2	10	10000
Heterotrophic Plate Count (AAHB) (CFU/100mL)	-	455	<100	>3000	>30000
Total Coliforms (CFU/100mL)	-	<210	70	320	180000

- 7. The Licensee shall, prior to the release of effluent from the Bermed Fuel Containment Facilities at Monitoring Program Station MEL-5 and the Landfarm Treatment Facility at Monitoring Program Station MEL-6 for the purpose of demonstrating compliance, sample for the parameters listed under Part D item 15.**

In November, no water was discharged from the Fuel Containment Facilities (Monitoring station MEL-5) or the Landfarm Treatment Facility (Monitoring Station MEL-6).

- 8. *The Licensee shall obtain representative samples of the water column below any ice where required under part F, Items 5 and 6. Monitoring shall include but not limited to the following:***

Total Suspended Solids

pH

Electrical Conductivity, and

Total trace Metals as determined by a standard ICP Scan (to include at a minimum, the following elements: Al, Sb, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Li, Mn, Mo, Ni, Se, Sn, Sr, Tl, Ti, U, V, Zn), and Trace Arsenic and Mercury.

There was no drilling being conducted on ice in November thus no samples were taken.

- 9. *Modify the monthly monitoring reports, starting April 2016, to include, at a minimum, waste water treatment options; and modifications of the freshet action plan.***

Since Nov, 2017 all treated sewage from the Exploration Camp STP is trucked and deposited in CP1. Previously the effluent from this system was discharged directly into Meliadine Lake. As a modification and alternate wastewater treatment option the effluent from this facility is now monitored and trucked to CP1. The Freshet Action Plan has been revised and will be submitted with the Annual Report in accordance with the Water License.