AGNICO EAGLE
MELIADINE

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

Prepared for:
Nunavut Water Board

Prepared by:
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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	Active
MEL-6	Effluent from the Landfarm Treatment Facility prior to release	New
MEL-7	Final Effluent Discharge from the BIODISK treatment system	Active
MEL-8	Point of discharge or runoff from the Non-Hazardous Waste landfill	(New) Active

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	27.49
	Pump Shack	m^3/day	16.48
	Construction	m^3/day	0.00
MEL-2 (A8)[2]	Underground	m^3/day	0.65
	Drilling	m^3/day	0.00
Not MEL-1 or MEL-2	Drilling	m^3/day	11.68
July Daily Average		m^3/day	55.15
Total July		m^3	1,710
Total 2018		m^3	12,385

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

In July 2018, no material entered the type B landfarm, as all material was brought to Type A landfarm.

[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 soil samples were taken in July 2018 from the landfarm.

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.***

   Table 3: GPS Coordinates of the landfill and landfarm

	Landfill	Landfarm	Incinerator
Latitude	63.03063°	63.02386°	63.02981˚
Longitude	-92.22089°	-92.18639°	-92.16750˚

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 and trucked to and discharged into CP1.
   Agnico continued to monitor the quality of the effluent; 5 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, July 2018

Parameters	Limits	7/2	7/12	7/16	7/23	7/30
Biochemical Oxygen Demand, mg/L	80	6	33	7	10	8
pH	6.0 - 9.5	7.41	7.65	7.43	7.25	7.07
Total Suspended Solids, mg/L	100	6	2	4	6	5
Oil and Grease, mg/L	5	1.8	<0.5	<0.5	<0.5	<0.5
Atypical	-	300	1100	610	840	220
Fecal Coliforms (CFU/100mL)	1000	4	120	<2	<2	<2
Heterotrophic Plate Count (AAHB) (CFU/100mL)	-	4,600	3,800	1,390	2,100	800
Total Coliforms (CFU/100mL)	-	160	600	<10	20	20

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 July, no water was released from the Bermed Fuel Containment Facilities (Monitoring station MEL-5) and 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.

   On-ice drilling was conducted in April – May 2018. The tabular results of the analyses were provided in the Appendix A of last month report. Based on those results, no decrease in water quality was observed as a result of the drilling campaign.

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.***

   Water, treated at the exploration STP continued to be trucked to and discharged into CP1.