

MELIADINE GOLD PROJECT

ENVIRONMENTAL REPORT: NOVEMBER 2017

WATER LICENCE 2BB-MEL1424

SUBMITTED TO THE NUNAVUT WATER BOARD

Contact:

Alex Chernoloz Environmental Compliance Counselor AGNICO EAGLE Mines Ltd.

Phone: 1 (819) 759-3555 (ext. 8136) alex.chernoloz@agnicoeagle.com

Jessica Huza General Supervisor Environment AGNICO EAGLE Mines Ltd.

Phone: 1 (819) 759-3555 (ext. 3928)

Mobile: 1 (819) 856-5097 jessica.huza@agnicoeagle.com

- A. 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 Program Station Number	Description	Status	
MEL-1	Raw water supply intake at Meliadine Lake	Active (Volume cubic metres)	
MEL-2	Raw water supply intake at Pump, A8 or other Lakes	Active (Volume cubic metres)	
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

MEL-1 ¹	Daily average (m ³)		
Camp	27.60		
Construction	0.00		
MEL-2 (A8) ²			
Underground	4.24		
Drilling	1.80		
Not MEL-1 or MEL-2			
Drilling	12.60		
November Daily Average	49.24		
Total November	1,387		
Total 2017	17,007		

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

In November 2017, less than 1 m³ of contaminated soil was brought to the 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 November 2017 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
Latitude	63.03063°	63.02386°
Longitude	-92.22089°	-92.18639°

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)

Two samples were collected during the month. The summary of the results is provided in Table 4 below.

An exceedance of the fecal coliforms was detected in both samples, collected on November 7, 2017 and November 13, 2017 (14,000 CFU/100 ml and 2,300 CFU/100 ml respectively versus 1,000 CFU/100 ml limit set in the license), this was reported as spills to the relevant authorities. An investigation is underway to determine the cause of the incident. Upon completion, a follow up report will be issued.

Following the repeated exceedance, on November 15 the discharge of effluent into the environment was suspended and the upgrade and maintenance program initiated. Until this program is completed, all effluent from the exploration camp is trucked to and treated at the main camp STP.

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

Parameters	Limits	11/7/2017	11/13/2017
Biochemical Oxygen Demand	80	18	19
pH	6.0 - 9.5	7.69	7.63
Total Suspended Solids	100 mg/L	12	18
Atypical		7200000	7500000
Fecal Coliforms (CFU/100mL)	1000	14000	2300
Heterotrophic Plate Count (AAHB) (CFU/100mL)		>200000	5000000
Total Coliforms (CFU/100mL)		2800000	1500000

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 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.

No on-ice drilling was conducted during the month of November.

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.

In November, underground mine development water was stored for subsequent treatment.

Domestic wastewater from the exploration camp was treated using the BIODISK/BIONEST treatment system; the discharge of treated water into the environment was suspended on November 15 to allow for the upgrade and maintenance of the system. All wastewater from the exploration camp was trucked to the main camp for treatment.