



AGNICO EAGLE

EXPLORATION

MELIADINE GOLD PROJECT

ENVIRONMENTAL REPORT: DECEMBER 2013

PRESENTED TO THE NUNAVUT WATER BOARD

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This monthly report is delivered under water license 2BB-MEL0914, PART J, items 13.

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

Table 1: Monitoring stations

Monitoring Program Station Number	Description
MEL-1	Raw water supply intake at Meliadine Lake
MEL-2	Raw water supply intake at Pump Lake
MEL-3	Immediately downstream of old grey water sump prior to effluent entering wetland area, when flow is observed
MEL-3a	Immediately downstream of upgraded sump prior to the effluent entering upgraded wetland area, when flow is observed
MEL-4	At a point immediately upstream of the discharge from the wetland area / upgraded wetland area to Meliadine Lake
MEL-5	Point of discharge for the Bermed fuel containment facilities
MEL-6	Point of discharge for the contaminated soil storage
MEL-7	Final effluent discharge from the BIODISK treatment system
MEL-8	Point of discharge or runoff from the Non-Hazardous Waste Landfill

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.

The consumption of fresh water for the site was **14.5m³/day** for the month of December 2013; 0m³/day for the drills, 11.5m³/day for the camp and 3.0m³/day for the underground.

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3. The Licensee shall provide the GPS co-ordinates of all locations where sources of water are utilized for all purposes. In UTM nad 1983 zone 15.

- Camp water source: East 541943.0 ; North 6989174.0
- Underground water source: East 540076.0 ; North 6987731.0

4. Licensee shall sample at Monitoring Program Station MEL-3, MEL-3a, MEL-4 and MEL-7, monthly during Sewage treatment, effluent discharge and during periods of flow at the point of entry into Meliadine Lake. Samples shall be analyzed for the following parameters:

**Biochemical Oxygen Demand – BOD5
Total Suspended Solids
Oil and Grease (and visual)
Fecal Coliforms
pH**

MEL-7

The December 19th sample result didn't respect the licence. The fecal coliforms were at 110 000 and the maximum authorized is 1000. All the other parameters respected the licence. This non-conformity is due to an electric failure overfilling the equalization tank during the night affecting the flow and the effluent quality. The situation was corrected rapidly (the same day). The next sample (December 30th) shows that the fecal coliforms and TSS are returned at a normal level.

Station: STP-OUT (MEL-7)		November	December			
DATE	Limits	25/11/2013	04/12/2013	11/12/2013	19/12/2013	30/12/2013
Ammonia as N (mg/L)		8.9	1.7	0.8	31.1	
Biochemical Oxygen Demand (mg/L)	80	<6.0	<6.0	11.3	17.7	
Heterotrophic Plate Count (AAHB) (CFU/ml)		90.0	>3000	>3000	>3000	>3000
Nitrate-N (mg/L)		26.7	8.8	9.2	0.7	
Nitrate and Nitrite as N (mg/L)		26.70	8.76	9.42	1.10	
Nitrite-N (mg/L)		<0.25	<0.25	0.2	0.3	
Oil & Grease-IR) (mg/L)	5	<1.0	<1.0	<1.0	IP	
Phosphorus (P)-Total (mg/L)		10.1	7.3	11.3	8.9	13.2
TKN (mg/L)		10.1	5.6	5.6	46.3	
Total Suspended Solids (mg/L)	100	5.0	10.0	17.0	80.0	9.0
Transmittance (%T)		54.9	54.9	40.5	15.4	
pH (pH units)	6.0-9.5	6.1	7.4	8.0	7.6	7.4
Fecal Coliforms (MPN/100ml)	1000	<3	<3	93.0	110,000.0	<3
Total Coliforms (MPN/100ml)		<3	<3	750.0	110,000.0	15.0

Preliminary data

5. *The Licensee shall, prior to the release of effluent from the Bermed Fuel Containment Facilities at Monitoring Program Station MEL-5 and the contaminated soil storage at MEL-6 for the purpose of demonstrating compliance, sample for the parameters listed under Part D, item 17.*

➤ No release in December.

6. *The Licensee shall obtain representative samples of the water column below any ice where required under part F, item 7. 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 sampling on ice in December.

7. *The Licensee shall analyze the samples obtained at Monitoring Program Station MEL-8 for the following parameters:*

pH

Total Suspended Solids (TSS)

Oil & Grease

Total Trace metals as determined by a standard ICP Scan (to include at a minimum, the following elements: Al, Ba, Cd, Cr, Cu, Pb, Ni, Se, Sn, Zn); and Trace Arsenic and Mercury

The Non-Hazardous Waste Landfill is not constructed yet.
