



AGNICO EAGLE

EXPLORATION

MELIADINE GOLD PROJECT

ENVIRONMENTAL REPORT: OCTOBER 2013

PRESENTED TO THE NUNAVUT WATER BOARD

Contact:

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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 **11.0m³/day** for the month of October 2013; 0m³/day for the drills, 9.3m³/day for the camp and 1.7m³/day for the underground

- 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

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MEL-7

All the parameters respected the license requirement until October 21 (last available data).

Station: STP-OUT (MEL-7)		October					
DATE	Limits	17/09/2013	23/09/2013	01/10/2013	08/10/2013	15/10/2013	21/10/2013
Ammonia as N (mg/L)		2.3	2.7	5.6	0.1	0.2	1.2
Biochemical Oxygen Demand (mg/L)	80	<6.0	10.5	<6.0	<6.0	<6.0	<6.0
Heterotrophic Plate Count (AAHB) (CFU/ml)		-	>3000	>3000	310.0	370	>3000
Nitrate-N (mg/L)		2.7	2.2	17.5	14.2	5.1	16.5
Nitrate and Nitrite as N (mg/L)		2.71	2.4	17.90	14.2	5.14	16.70
Nitrite-N (mg/L)		<0.050	0.2	0.4	<0.050	0.1	0.2
Oil & Grease-IR) (mg/L)	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Phosphorus (P)-Total (mg/L)		3.0	1.4	11.8	9.0	3.9	12.4
TKN (mg/L)		3.0	3.8	8.9	4.1	2.0	4.4
Total Suspended Solids (mg/L)	100	5.0	13.0	8.0	34.0	<5.0	6.0
Transmittance (%T)		-	81.3	40.1	66.9	68.0	51.3
pH (pH units)	6.5-9	7.3	7.6	7.0	6.4	7.2	7.0
Fecal Coliforms (MPN/100ml)	1000	4.0	38.0	<3	93.0	<3	<3
Total Coliforms (MPN/100ml)		4,300.0	2,000.0	9.0	93.0	<3	<3

- 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 October.

- 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 October.

- 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.
