

MELIADINE GOLD PROJECT

ENVIRONMENTAL REPORT: JULY 2015

PRESENTED TO THE NUNAVUT WATER BOARD

Contact:

David Frenette

Environmental Coordinator AGNICO EAGLE Mines Ltd

C.P. 87 765, Chemin de la mine Goldex Val-d'Or (Qc) Canada J9P 4N9

Phone: 1 (819) 874-5980 (ext. 3622)

Cell: 1 (819) 355-9271

david.frenette@agnicoeagle.com

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, trenching and other purposes from all sources.

The consumption of fresh water for the site was **24.6 m³/day** for the month of June; 0 m³/day for the drilling, 23.8 m³/day*** for the camp and 0.8 m³/day for the underground.

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

No new material added.

^{***} The volume for the camp includes the indirect water use.

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

No new material added.

Results from the soil samples in the Land Treatment Unit:

| SampleID | Sample_Date | Sample_Tir | me % Moisture | Benzene | Ethyl | F1 (C6- | F1-BTEX | F2 (C10- | F3 (C16- | F4 (C34- | m+p- | Oil and | o-Xylene | Toluene | Total | Xylenes |
|----------|-------------|------------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-------------|-----------|
| | | | (%)_DL | (mg/kg)_D | benzene | C10) | (mg/kg)_D | C16) | C34) | C50) | Xylenes | Grease, | (mg/kg)_DL | (mg/kg)_D | Hydrocarbon | (mg/kg)_D |
| | | | 0_1 | L 0_005 | (mg/kg)_D | (mg/kg)_D | L 10 | (mg/kg)_D | (mg/kg)_D | (mg/kg)_D | (mg/kg)_D | Total | 0_05 | L 0_05 | s (C6-C50) | L 0_1 |
| | | | | | L 0_015 | L 10 | | L 25 | L 50 | L 50 | L 0_05 | (mg/kg)_D | | | (mg/kg)_DL | |
| | | | | | | | | | | | | L 500 | | | 76 | |
| BERM 1 | 10-Aug-14 | 10:00 | 12 | < 0.0050 | <0.015 | <10 | <10 | 53 | <50 | <50 | < 0.050 | 520 | < 0.050 | < 0.050 | <76 | <0.10 |
| BERM 2 | 10-Aug-14 | 10:05 | 8.8 | < 0.0050 | <0.015 | <10 | <10 | <25 | <50 | <50 | < 0.050 | <500 | < 0.050 | < 0.050 | <76 | <0.10 |
| BERM 3 | 10-Aug-14 | 10:10 | 9.2 | < 0.0050 | <0.015 | <10 | <10 | 104 | <50 | <50 | < 0.050 | <500 | < 0.050 | < 0.050 | 104 | <0.10 |
| BERM 4 | 10-Aug-14 | 10:15 | 12 | < 0.0050 | <0.015 | <10 | <10 | 853 | 105 | <50 | < 0.050 | 840 | < 0.050 | < 0.050 | 957 | <0.10 |

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

The landfill has not been constructed yet, so most of the waste is managed in containers and dispose of once a year during the boat transport season.

7. 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.

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

MEL-7

No exceedances occurred in July.

| Station: STP-FINAL | July | | | | |
|----------------------------------|---------|------------|------------|------------|--|
| DATE | Limits | 2015-07-08 | 2015-07-20 | 2015-07-29 | |
| Ammonia as N | | 27.2 | 21.3 | 0.3 | |
| Biochemical Oxygen Demand | 80 | <2.0 | 13.1 | 7.0 | |
| Heterotrophic Plate Count (AAHB) | | 300.0 | 380.0 | 250.0 | |
| Nitrate-N | | 7.1 | 6.1 | 3.9 | |
| Nitrate and Nitrite as N | | 7.6 | 6.5 | 4.4 | |
| Nitrite-N | | 0.5 | 0.4 | 0.4 | |
| Oil & Grease-(IR) | 5 | <2.0 | <2.0 | 1.0 | |
| Phosphorus (P)-Total | | 12.0 | 13.2 | 16.0 | |
| TKN | | 39.3 | 24.3 | 31.9 | |
| Total Suspended Solids | 100 | 15.0 | 14.0 | 7.0 | |
| Transmitance % | | 34.2 | 34.8 | <62 | |
| pH | 6.0-9.5 | 7.8 | 7.3 | 7.5 | |
| Fecal Coliforms | 1000 | <3 | <3 | 0.0 | |
| Total Coliforms | | <3 | 7.0 | 10.0 | |

- 8. 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.
 - ➤ Water from Station Mel-6 was released in July after communication with AANDC inspector.

9. 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: AI, Sb, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Li, Mn, Mo, Ni, Se, Sn, Sr, TI, Ti, U, V, Zn), and Trace Arsenic and Mercury.

- No drilling was done in July on lake.
- 10. The inspector, Christine Wilson (AANDC inspector), requested AEM to continue monitoring the ponded water at the rear of these facilities during times of flow with the same parameters as MEL-8 and the result must be included in the monthly monitoring report provided to the Nunavut Water Board ("the Board") and the Inspector.
 - Ponded water was present in June and here are the results:

| MEL-8 | 2015 | | | |
|------------------------|-------|----------------------------------|------------|------------|
| Station: | | | MEL-8 RC | MEL-8 RC |
| Date Sampled: | | | 2015-06-14 | 2015-06-23 |
| Sample ID: | | | L1627744 | L1632881 |
| Laboratory-Measured | Units | Limits 2BB- MEL1424 (mg/L) | Results | Results |
| Mercury (Hg)-Total | mg/L | 0.0006 | <0.000020 | <0.000020 |
| Aluminum (Al)-Total | mg/L | | 0.21 | 0.194 |
| Antimony (Sb)-Total | mg/L | | 0.00036 | 0.00022 |
| Arsenic (As)-Total | mg/L | 1 | 0.00179 | 0.00285 |
| Barium (Ba)-Total | mg/L | 1 | 0.00375 | 0.00934 |
| Beryllium (Be)-Total | mg/L | | <0.00020 | <0.00020 |
| Bismuth (Bi)-Total | mg/L | | <0.00020 | <0.00020 |
| Boron (B)-Total | mg/L | | <0.010 | 0.019 |
| Cadmium (Cd)-Total | mg/L | 0.1 | 0.000012 | 0.000028 |
| Calcium (Ca)-Total | mg/L | | 1.56 | 9.49 |
| Cesium (Cs)-Total | mg/L | | <0.00010 | <0.00010 |
| Chromium (Cr)-Total | mg/L | 0.1 | 0.00067 | 0.00054 |
| Cobalt (Co)-Total | mg/L | | 0.00033 | 0.00053 |
| Copper (Cu)-Total | mg/L | 1 | 0.00107 | 0.00231 |
| Iron (Fe)-Total | mg/L | | 0.282 | 0.46 |
| Lead (Pb)-Total | mg/L | 0.05 | 0.000507 | 0.00096 |
| Lithium (Li)-Total | mg/L | | <0.0020 | 0.0032 |
| Magnesium (Mg)-Total | mg/L | | 0.329 | 1.16 |
| Manganese (Mn)-Total | mg/L | | 0.0355 | 0.0521 |
| Molybdenum (Mo)-Total | mg/L | | <0.00020 | 0.00051 |
| Nickel (Ni)-Total | mg/L | 1 | 0.00075 | 0.00172 |
| Phosphorus (P)-Total | mg/L | | <0.050 | <0.050 |
| Potassium (K)-Total | mg/L | | 0.413 | 1.71 |
| Rubidium (Rb)-Total | mg/L | | 0.00052 | 0.00127 |
| Selenium (Se)-Total | mg/L | | <0.00010 | <0.00010 |
| Silicon (Si)-Total | mg/L | | 0.48 | 0.57 |
| Silver (Ag)-Total | mg/L | 0.1 | <0.000010 | 0.000012 |
| Sodium (Na)-Total | mg/L | | 0.528 | 3.35 |
| Strontium (Sr)-Total | mg/L | | 0.00868 | 0.0516 |
| Tellurium (Te)-Total | mg/L | | <0.00020 | <0.00020 |
| Thallium (Tl)-Total | mg/L | | <0.00010 | <0.00010 |
| Thorium (Th)-Total | mg/L | | <0.00010 | <0.00010 |
| Tin (Sn)-Total | mg/L | | <0.00020 | <0.00020 |
| Titanium (Ti)-Total | mg/L | | 0.00529 | 0.00511 |
| Tungsten (W)-Total | mg/L | | 0.00012 | 0.00023 |
| Uranium (U)-Total | mg/L | | <0.00010 | <0.00010 |
| Vanadium (V)-Total | mg/L | | 0.00044 | 0.00037 |
| Zinc (Zn)-Total | mg/L | 0.5 | 0.0115 | 0.0188 |
| Zirconium (Zr)-Total | mg/L | | <0.00040 | <0.00040 |
| Total Suspended Solids | mg/L | 15 | <5.0 | <5.0 |
| Oil & Grease-(IR) | mg/L | 15 | <2.0 | <2.0 |