

MELIADINE GOLD PROJECT
ENVIRONMENTAL REPORT JANUARY-
FEBRUARY-MARCH 2013



AGNICO EAGLE
CANADA

MELIADINE GOLD PROJECT

**ENVIRONMENTAL REPORT: JANUARY-FEBRUARY-MARCH
2013**

PRESENTED TO THE NUNAVUT WATER BOARD

MELIADINE GOLD PROJECT
**ENVIRONMENTAL REPORT JANUARY-
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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	Status
MEL-1	Raw water supply intake at Meliadine Lake	Active (volume cubic metres)
MEL-2	Raw water supply intake at Pump Lake	Active (volume cubic metres)
MEL-3	Immediately downstream of old grey water sump prior to effluent entering wetland area, when flow observed	Active
MEL-3a	Immediately downstream of upgraded sump prior to the effluent entering upgraded wetland area, when flow is observed	Active
MEL-4	At a point immediately upstream of the discharge from the wetland area / upgraded wetland area to Meliadine Lake	Active
MEL-5	Point of discharge for the Bermed Fuel Containment Facilities	Active
MEL-6	Point of discharge for the contaminated soil storage	Active
MEL-7	Final effluent discharge from the BIODISK treatment system	Active
MEL-8	Point of discharge or runoff from the Non-Hazardous Waste Landfill	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.

The consumption of fresh water for the site was 5.9m3/day for the month of January 2013.

The consumption of fresh water for the site was 5.1m3/day for the month of February 2013.

The consumption of fresh water for the site was 200,7m3/day for the month of March 2013; 183.3m³/day for the drills and 17.4m³/day for the camp.

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

- Camp water source: East 541943,0 ; North 6989174,0
- Drilling water sources: East 537998,1; North 6989568,6
East 538406,5; North 6988092,8
East 539928,8; North 6987647,2
East 540235,1; North 6987062,5

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:

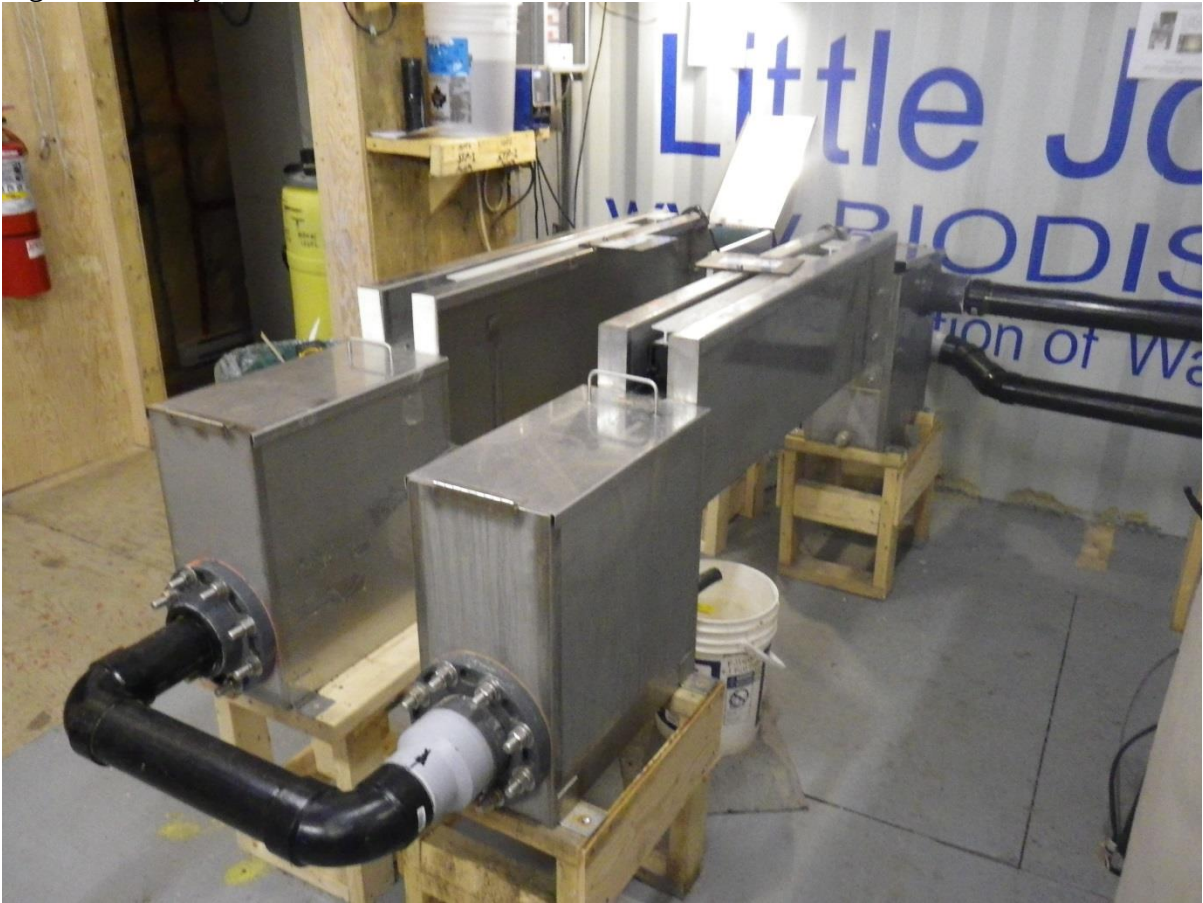
Biochemical Oxygen Demand – BOD₅
Total Suspended Solids
Oil and Grease (and visual)
Fecal Coliforms
pH

MEL-7

All the parameters for the 3 months are respected, excepted for the fecal coliforms.

The March 14th, we received all the materials to install the two UV system in series. The 2 samplings after respected the licence requirements.

Figure: 2 UV systems in series



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MEL 7 Results

Station: STP-OUT		January				February			March			
DATE	Limits	08/01/2013	15/01/2013	22/01/2013	29/01/2013	05/02/2013	19/02/2013	27/02/2013	05/03/2013	12/03/2013	19/03/2013	26/03/2013
Ammonia as N		1.71	9.60	7.6	6.0	5.4	10.8	9.3	22.7	18.9	34.0	23.0
Biochemical Oxygen Demand	80	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	9.7	12.2	6.0	6.1	<6.0
Heterotrophic Plate Count (AAHB)		>3000	<10	>3000	1,370.0	>3000	200.0	>3000	>3000	>3000	150.0	>3000
Nitrate-N		19.0	21.7	16.2	10.3	10.9	13.6	10.3	7.8	12.2	22.9	<0.050
Nitrate and Nitrite as N		19.00	21.70	16.30	10.4	11.0	13.8	10.3	8.82	14.40	23.90	0.14
Nitrite-N		<0.050	<0.050	0.1	0.1	0.1	0.2	<0.050	0.995	2.2	1.1	0.1
Oil & Grease-(IR)	5	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	IP
Phosphorus (P)-Total		6.4	6.3	7.5	6.8	7.6	7.5	8.75	8.6	9.9	14.7	4.9
TKN		8.32	13.10	10.70	9.70	9.50	12.20	13.10	28.00	26.60	37.60	28.20
Total Suspended Solids	100	9.0	10.0	7.0	5.0	<5.0	7.0	14.0	18.0	13.0	11.0	5.0
Transmittance %		51.0	59.8	38.3	37.1	28.1	23.7	19.4	24.4	31.6	32.0	46.5
pH	6.5-9	6.81	5.30	7.6	7.4	7.3	7.2	7.28	7.5	7.4	7.3	7.7
Fecal Coliforms	1000	9,300.0	9.0	46,000.0	150.0	46,000.0	9.0	110,000.0	2,300.0	2,300.0	<3	430.0
Total Coliforms		9,300.0	9.0	46,000.0	430.0	46,000.0	9.0	110,000.0	2,300.0	2,300.0		930.0

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 discharge for the months of January, February and March.

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.

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			Pump Lake (A8)	Pump Lake (A8)	Pump Lake (A8)	Pump Lake (A8)	Pump Lake (A8)
Parameters	Unit	Limits	27/02/2013	02/03/2013	09/03/2013	17/03/2013	23/03/2013
Chloride	mg/L		91.7	97.3	100	114	106
Conductivity	umhos/cm		524	535	539	561	576
Hardness (as CaCO3)	mg/L		227	234	215	229	235
Mercury (Hg)-Total	mg/L	0.000026	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Sodium Adsorption Ratio			0.44	0.41	0.41	0.45	0.44
Sulfate			11.3	12.5	12.5	13.7	12.4
TDS (Calculated from EC)	mg/L		341	348	350	365	374
Total Suspended Solids	mg/L	10	<5.0	23	<5.0	<5.0	<5.0
pH	pH units	6.5-9.0	7.17	7.11	7.17	7.11	7.11
Aluminum (Al)-Total	mg/L	0.1	0.0059	0.0919	0.0078	0.0089	0.0077
Antimony (Sb)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Arsenic (As)-Total	mg/L	0.005	0.00184	0.00577	0.00163	0.00188	0.00203
Barium (Ba)-Total	mg/L		0.065	0.0797	0.0711	0.0766	0.0744
Beryllium (Be)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Bismuth (Bi)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron (B)-Total	mg/L	1.5	<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium (Cd)-Total	mg/L	Hardness dependent	0.000281	0.000066	0.000262	0.000467	0.000128
Calcium (Ca)-Total	mg/L		76	78.7	72	75	78
Cesium (Cs)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Chromium (Cr)-Total	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cobalt (Co)-Total	mg/L		<0.00020	0.00037	<0.00020	<0.00020	<0.00020
Copper (Cu)-Total	mg/L	Hardness dependent	0.0023	0.00215	0.00165	0.00235	0.00183
Iron (Fe)-Total	mg/L	0.3	<0.10	0.58	<0.10	0.1	0.21
Lead (Pb)-Total	mg/L	Hardness dependent	0.000424	0.000188	0.000153	0.000651	0.000153
Lithium (Li)-Total	mg/L		0.0214	0.0219	0.0219	0.0224	0.0227
Magnesium (Mg)-Total	mg/L		9.12	9.05	8.53	9.73	9.95
Manganese (Mn)-Total	mg/L		0.0278	0.123	0.0185	0.0274	0.0971
Molybdenum (Mo)-Total	mg/L		0.00026	0.00025	<0.00020	0.00025	0.00025
Nickel (Ni)-Total	mg/L	Hardness dependent	<0.0020	0.0025	0.0022	0.0024	0.0024
Phosphorus (P)-Total	mg/L		<0.10	<0.10	<0.10	<0.10	<0.10
Potassium (K)-Total	mg/L		3.84	3.89	3.95	4.38	4.18
Rubidium (Rb)-Total	mg/L		0.00404	0.00447	0.00363	0.00492	0.00464
Selenium (Se)-Total	mg/L	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Silicon (Si)-Total	mg/L		1.76	1.9	1.63	2.1	2.15
Silver (Ag)-Total	mg/L	0.0001	<0.00010	<0.00010	<0.00010	0.00065	0.00013
Sodium (Na)-Total	mg/L		15.3	14.3	13.8	15.5	15.6
Strontium (Sr)-Total	mg/L		0.449	0.497	0.437	0.5	0.491
Tellurium (Te)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Thallium (Tl)-Total	mg/L	0.0008	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Thorium (Th)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Tin (Sn)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Titanium (Ti)-Total	mg/L		<0.00050	0.00431	0.0007	0.00071	0.00084
Tungsten (W)-Total	mg/L		<0.00010	0.00015	<0.00010	<0.00010	<0.00010
Uranium (U)-Total	mg/L	0.015	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Vanadium (V)-Total	mg/L		<0.00020	0.0004	<0.00020	<0.00020	<0.00020
Zinc (Zn)-Total	mg/L	0.03	0.0168	0.0024	0.0062	0.0132	0.0075
Zirconium (Zr)-Total	mg/L		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Oil/Grease (IR)	mg/L			<1.0	<1.0	<1.0	<1.0

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			2013-BUD (mid)	2013-BUD (mid)	2013-BUD (mid)	2013-BUD (mid)
Parameters	Unit	Limits	02/03/2013	09/03/2013	17/03/2013	23/03/2013
Chloride	mg/L		54.8	58.2	76.8	62.7
Conductivity	umhos/cm		342	357	437	396
Hardness (as CaCO3)	mg/L		143	144	182	160
Mercury (Hg)-Total	mg/L	0.000026	<0.000020	<0.000020	<0.000020	<0.000020
Oil & Grease-(IR)	mg/L		<1.0	<1.0	<1.0	<1.0
Sodium Adsorption Ratio			0.33	0.34	0.4	0.37
Sulfate	mg/L		8.35	8.91	11.1	9.27
TDS (Calculated from EC)	mg/L		222	232	284	257
Total Suspended Solids	mg/L	10	<5.0	<5.0	38	<5.0
pH	pH units	6.5-9.0	7.03	7.03	7.01	7.02
Aluminum (Al)-Total	mg/L	0.1	0.0053	<0.0050	0.143	0.0051
Antimony (Sb)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020
Arsenic (As)-Total	mg/L	0.005	0.00104	0.0010	0.0075	0.0011
Barium (Ba)-Total	mg/L		0.0488	0.0512	0.0806	0.0556
Beryllium (Be)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020
Bismuth (Bi)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020
Boron (B)-Total	mg/L	1.5	<0.010	<0.010	0.012	<0.010
Cadmium (Cd)-Total	mg/L	Hardness dependent	0.00031	0.000101	0.00064	0.000022
Calcium (Ca)-Total	mg/L		48.5	49	61	54
Cesium (Cs)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010
Chromium (Cr)-Total	mg/L		<0.0010	<0.0010	<0.0010	<0.0010
Cobalt (Co)-Total	mg/L		<0.00020	<0.00020	0.00094	<0.00020
Copper (Cu)-Total	mg/L	Hardness dependent	0.00196	0.00149	0.00304	0.00147
Iron (Fe)-Total	mg/L	0.3	<0.10	<0.10	1.32	<0.10
Lead (Pb)-Total	mg/L	Hardness dependent	0.000127	<0.000090	0.000621	0.000107
Lithium (Li)-Total	mg/L		0.0143	0.0153	0.0168	0.0159
Magnesium (Mg)-Total	mg/L		5.3	5.4	7.25	6.4
Manganese (Mn)-Total	mg/L		0.0945	0.0389	0.378	0.076
Molybdenum (Mo)-Total	mg/L		<0.00020	0.00023	0.00024	<0.00020
Nickel (Ni)-Total	mg/L	Hardness dependent	<0.0020	<0.0020	0.0043	<0.0020
Phosphorus (P)-Total	mg/L		<0.10	<0.10	<0.10	<0.10
Potassium (K)-Total	mg/L		2.48	2.63	3.34	2.89
Rubidium (Rb)-Total	mg/L		0.00305	0.00273	0.00427	0.0033
Selenium (Se)-Total	mg/L	0.001	<0.0010	<0.0010	<0.0010	<0.0010
Silicon (Si)-Total	mg/L		1.08	1.04	1.92	1.39
Silver (Ag)-Total	mg/L	0.0001	<0.00010	<0.00010	0.0004	<0.00010
Sodium (Na)-Total	mg/L		9.13	9.27	12.4	10.7
Strontium (Sr)-Total	mg/L		0.291	0.291	0.415	0.351
Tellurium (Te)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020
Thallium (Tl)-Total	mg/L	0.0008	<0.00010	<0.00010	<0.00010	<0.00010
Thorium (Th)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010
Tin (Sn)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020
Titanium (Ti)-Total	mg/L		<0.00050	0.00058	0.00635	<0.00050
Tungsten (W)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010
Uranium (U)-Total	mg/L	0.015	<0.00010	<0.00010	<0.00010	<0.00010
Vanadium (V)-Total	mg/L		<0.00020	<0.00020	0.00049	<0.00020
Zinc (Zn)-Total	mg/L	0.03	0.006	0.0037	0.0099	0.0043
Zirconium (Zr)-Total	mg/L		<0.00040	<0.00040	<0.00040	<0.00040

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			2013-Woody (Big)	2013-Woody (Big)	2013-Woody (Mid)
Parameters	Unit	Limits	02/03/2013	17/03/2013	23/03/2013
Chloride	mg/L		76.7	92	85
Conductivity	umhos/cm		423	454	462
Hardness (as CaCO3)	mg/L		174	188	196
Mercury (Hg)-Total	mg/L	0.000026	<0.000020	<0.000020	<0.000020
Oil & Grease-(IR)	mg/L		<1.0	<1.0	<1.0
Sodium Adsorption Ratio			0.26	0.29	0.29
Sulfate	mg/L		8.09	9.38	8.51
TDS (Calculated from EC)	mg/L		275	295	301
Total Suspended Solids	mg/L	10	<5.0	<5.0	<5.0
pH	pH units	6.5-9.0	6.93	6.95	6.96
Aluminum (Al)-Total	mg/L	0.1	0.006	<0.0050	0.0069
Antimony (Sb)-Total	mg/L		<0.00020	<0.00020	<0.00020
Arsenic (As)-Total	mg/L	0.005	0.00133	0.00146	0.00142
Barium (Ba)-Total	mg/L		0.0586	0.0707	0.0683
Beryllium (Be)-Total	mg/L		<0.00020	<0.00020	<0.00020
Bismuth (Bi)-Total	mg/L		<0.00020	<0.00020	<0.00020
Boron (B)-Total	mg/L	1.5	<0.010	<0.010	<0.010
Cadmium (Cd)-Total	mg/L	Hardness dependent	0.000259	0.000372	0.000031
Calcium (Ca)-Total	mg/L		61.1	65	68
Cesium (Cs)-Total	mg/L		<0.00010	<0.00010	<0.00010
Chromium (Cr)-Total	mg/L		<0.0010	<0.0010	<0.0010
Cobalt (Co)-Total	mg/L		<0.00020	<0.00020	<0.00020
Copper (Cu)-Total	mg/L	Hardness dependent	0.0021	0.00155	0.00223
Iron (Fe)-Total	mg/L	0.3	0.11	0.15	0.13
Lead (Pb)-Total	mg/L	Hardness dependent	0.00012	0.000142	0.0301
Lithium (Li)-Total	mg/L		0.0216	0.0216	0.024
Magnesium (Mg)-Total	mg/L		5.17	6.15	6.29
Manganese (Mn)-Total	mg/L		0.0613	0.0639	0.0718
Molybdenum (Mo)-Total	mg/L		0.00024	0.00025	0.00026
Nickel (Ni)-Total	mg/L	Hardness dependent	0.0023	0.0027	0.0028
Phosphorus (P)-Total	mg/L		<0.10	<0.10	<0.10
Potassium (K)-Total	mg/L		3.06	3.45	3.44
Rubidium (Rb)-Total	mg/L		0.00344	0.004	0.00377
Selenium (Se)-Total	mg/L	0.001	<0.0010	<0.0010	<0.0010
Silicon (Si)-Total	mg/L		1.5	1.72	1.76
Silver (Ag)-Total	mg/L	0.0001	<0.00010	0.00023	<0.00010
Sodium (Na)-Total	mg/L		7.8	9.16	9.35
Strontium (Sr)-Total	mg/L		0.438	0.482	0.504
Tellurium (Te)-Total	mg/L		<0.00020	<0.00020	<0.00020
Thallium (Tl)-Total	mg/L	0.0008	<0.00010	<0.00010	<0.00010
Thorium (Th)-Total	mg/L		<0.00010	<0.00010	<0.00010
Tin (Sn)-Total	mg/L		<0.00020	0.00058	0.02
Titanium (Ti)-Total	mg/L		0.00053	<0.00050	0.00074
Tungsten (W)-Total	mg/L		<0.00010	<0.00010	<0.00010
Uranium (U)-Total	mg/L	0.015	<0.00010	<0.00010	<0.00010
Vanadium (V)-Total	mg/L		<0.00020	<0.00020	<0.00020
Zinc (Zn)-Total	mg/L	0.03	0.0088	0.0053	0.0068
Zirconium (Zr)-Total	mg/L		<0.00040	<0.00040	<0.00040

- 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.
