



AGNICO EAGLE

EXPLORATION

MELIADINE GOLD PROJECT

ENVIRONMENTAL REPORT: MAY 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 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 200.9m³/day for the month of May 2013; 178.6m³/day for the drills and 22.3m³/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 540262; North 6987277
East 538495; North 6988209
East 542189; North 6986283

- 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 respected the licence requirement during May.

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Station: STP-OUT (MEL-7)		May			
DATE	Limits	06/05/2013	09/05/2013	21/05/2013	27/05/2013
Ammonia as N (mg/L)		19.0	11.8	6.3	23.4
Biochemical Oxygen Demand (mg/L)	80	9.0	<6.0	<6.0	13.9
Heterotrophic Plate Count (AAHB) (CFU/ml)		>3000	>3000	>3000	2,210.0
Nitrate-N (mg/L)		19.9	10.0	0.1	3.5
Nitrate and Nitrite as N (mg/L)		22.00	13.20	0.33	4.12
Nitrite-N (mg/L)		2.1	3.3	0.3	0.6
Oil & Grease-IR) (mg/L)	5	<1.0	<1.0	<1.0	<1.0
Phosphorus (P)-Total (mg/L)		14.2	11.0	3.1	13.0
TKN (mg/L)		23.5	16.0	13.9	33.6
Total Suspended Solids (mg/L)	100	18.0	5.0	8.0	8.0
Transmittance (%T)		34.2	41.9	53.6	31.8
pH (pH units)	6.5-9	7.2	7.4	8.2	7.80
Fecal Coliforms (MPN/100ml)	1000	4.0	4.0	4.0	230.0
Total Coliforms (MPN/100ml)		2,300.0	4.0	43.0	230.0

- 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 month of May.

- 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)	Pump Lake (A8)	Pump Lake (A8)	Pump Lake (A8)	Pump Lake (A8)	Pump Lake (A8)	Pump Lake (A8)	Pump Lake (A8)	Pump Lake (A8)
Parameters	Unit	Limits	02/03/2013	09/03/2013	17/03/2013	23/03/2013	28/03/2013	01/04/2013	07/04/2013	13/04/2013	20/04/2013	27/04/2013	04/05/2013	20/05/2013	24/05/2013
Chloride	mg/L		97.3	100	114	106	109	110	104	110.0	113	116.0	123.0	118.0	113.0
Conductivity	umhos/cm		535	539	561	576	589	601	574	595	616	626	660	634	601
Hardness (as CaCO3)	mg/L		234	215	229	235	247	254	220	230	251	258	283	254	282
Mercury (Hg)-Total	mg/L	0.000026	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	0.000044	<0.000020
Sodium Adsorption Ratio			0.41	0.41	0.45	0.44	0.4	0.43	0.43	0.41	0.4	0.43	0.46	0.39	0.43
Sulfate			12.5	12.5	13.7	12.4	13.6	13.7	11.3	13.1	13.5	14.2	13.1	13.8	13
TDS (Calculated from EC)	mg/L		348	350	365	374	383	391	373	387	400	407	429	412	391
Total Suspended Solids	mg/L	10	23	<5.0	<5.0	<5.0	<5.0	5	<5.0	<5.0	<5.0	<5.0	6	<5.0	<5.0
pH	pH units	6.5-9.0	7.11	7.17	7.11	7.11	7.21	7.26	7.37	7.07	7.02	7.08	6.93	7.29	6.98
Aluminum (Al)-Total	mg/L	0.1	0.0919	0.0078	0.0089	0.0077	0.0161	0.0052	0.0069	0.0164	0.0116	0.0253	0.013	0.0228	0.0187
Antimony (Sb)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00043	<0.00020	<0.00020	<0.00020	0.00021	<0.00020
Arsenic (As)-Total	mg/L	0.005	0.00577	0.00163	0.00188	0.00203	0.00183	0.003	0.00167	0.00178	0.0019	0.0127	0.00227	0.0016	0.00184
Barium (Ba)-Total	mg/L		0.0797	0.0711	0.0766	0.0744	0.0753	0.0834	0.0736	0.0786	0.0811	0.0899	0.0922	0.0803	0.0830
Beryllium (Be)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<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	<0.00020	<0.00020	<0.00020	<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	0.011	0.011	<0.010	<0.010	<0.010	<0.010	0.01	<0.010	<0.010
Cadmium (Cd)-Total	mg/L	Hardness dependent	0.000066	0.000262	0.000467	0.000128	0.000158	0.000393	0.000198	0.000504	0.000516	0.000114	0.00018	0.000127	0.000266
Calcium (Ca)-Total	mg/L		78.7	72	75	78	84	85	72	76	84.9	86	94	86	94
Cesium (Cs)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Chromium (Cr)-Total	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	0.0041	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cobalt (Co)-Total	mg/L		0.00037	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Copper (Cu)-Total	mg/L	Hardness dependent	0.00215	0.00165	0.00235	0.00183	0.00279	0.00191	0.00263	0.00291	0.00994	0.00329	0.00274	0.00187	0.00188
Iron (Fe)-Total	mg/L	0.3	0.58	<0.10	0.1	0.21	<0.10	0.17	<0.10	0.12	0.19	1.23	0.23	0.18	0.11
Lead (Pb)-Total	mg/L	Hardness dependent	0.000188	0.000153	0.000651	0.000153	0.00037	0.000692	0.000714	0.000495	0.000447	0.000379	0.000292	0.000424	0.000302
Lithium (Li)-Total	mg/L		0.0219	0.0219	0.0224	0.0227	0.0229	0.0243	0.022	0.0244	0.0241	0.0243	0.0254	0.0249	0.0266
Magnesium (Mg)-Total	mg/L		9.05	8.53	9.73	9.95	9.05	10.2	9.46	9.95	9.54	10.5	11.7	9.75	11.6
Manganese (Mn)-Total	mg/L		0.123	0.0185	0.0274	0.0971	0.0226	0.0338	0.135	0.0419	0.0389	0.0524	0.1	0.0954	0.0517
Molybdenum (Mo)-Total	mg/L		0.00025	<0.00020	0.00025	0.00025	0.00025	<0.00020	0.00028	0.00029	<0.00020	0.00025	0.00026	<0.00020	<0.00020
Nickel (Ni)-Total	mg/L	Hardness dependent	0.0025	0.0022	0.0024	0.0024	0.0025	0.0022	0.0021	0.0024	0.0023	0.0026	0.0031	<0.0020	<0.0020
Phosphorus (P)-Total	mg/L		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Potassium (K)-Total	mg/L		3.89	3.95	4.38	4.18	4.31	4.54	4.00	4.38	4.31	4.53	5.01	3.93	4.25
Rubidium (Rb)-Total	mg/L		0.00447	0.00363	0.00492	0.00464	0.0045	0.00482	0.00438	0.00462	0.00497	0.00515	0.00536	0.00419	0.00507
Selenium (Se)-Total	mg/L	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Silicon (Si)-Total	mg/L		1.9	1.63	2.1	2.15	1.92	1.94	2.19	2.09	2.1	2.01	3.43	2.17	2.08
Silver (Ag)-Total	mg/L	0.0001	<0.00010	<0.00010	0.00065	0.00013	<0.00010	<0.00010	<0.00010	0.00028	0.00013	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	mg/L		14.3	13.8	15.5	15.6	14.3	15.8	14.7	14.2	14.5	15.9	17.9	14.3	16.7
Strontium (Sr)-Total	mg/L		0.497	0.437	0.5	0.491	0.489	0.51	0.498	0.509	0.522	0.584	0.65	0.538	0.584
Tellurium (Te)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<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	<0.00010	<0.00010	<0.00010	<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	<0.00010	<0.00010	<0.00010	<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	<0.00020	<0.00020	<0.00020	<0.00094	<0.00020	<0.00020	<0.00020	<0.00020
Titanium (Ti)-Total	mg/L		0.00431	0.0007	0.00071	0.00084	0.00128	0.00065	0.00085	0.00095	0.00087	0.00192	0.0009	0.00168	0.00141
Tungsten (W)-Total	mg/L		0.00015	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Uranium (U)-Total	mg/L	0.015	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Vanadium (V)-Total	mg/L		0.0004	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Zinc (Zn)-Total	mg/L	0.03	0.0024	0.0062	0.0132	0.0075	0.0383	0.0063	0.0104	0.0212	0.0292	0.0184	0.0162	0.0157	0.0113
Zirconium (Zr)-Total	mg/L		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Oil/Grease-(IR)	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Field pH	pH units			7.9		6.61	NA	NA	8.26	7.02	6.9	7.44	7.39	6.94	7.62
Field T0	oC			0.4		0.3	NA	NA	0.4	0.3	0.2	0.2	0.5	0.4	0.6
Field Conductivity	ms/cm			0.66		0.55	NA	NA	0.6	0.57	0.57	0.57	0.67	0.6	0.62

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			2013-BUD (mid)	2013-BUD (mid)	2013-BUD (mid)	2013-BUD (mid)	2013-BUD (mid)	2013-BUD (mid)	2013-BUD (mid)	2013-BUD (mid)	2013-BUD (mid)	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	28/03/2013	01/04/2013	07/04/2013	13/04/2013	20/04/2013	27/04/2013	04/05/2013	20/05/2013	24/05/2013
Chloride	mg/L		54.8	58.2	76.8	62.7	83.2	76.3	69.4	65.7	68.8	72.4	74.5	74.1	74.7
Conductivity	umhos/cm		342	357	437	396	513	480	442	417	439	457	465	465	463
Hardness (as CaCO3)	mg/L		143	144	182	160	209	212	180	155	181	185	195	192	209
Mercury (Hg)-Total	mg/L	0.000026	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	0.000058	<0.000020
Oil & Grease-(IR)	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Sodium Adsorption Ratio			0.33	0.34	0.4	0.37	0.38	0.35	0.4	0.36	0.36	0.38	0.41	0.35	0.38
Sulfate	mg/L		8.35	8.91	11.1	9.27	12.3	10.4	9.44	8.74	9.33	10	9.95	10.4	9.65
TDS (Calculated from EC)	mg/L		222	232	284	257	334	312	287	271	285	297	302	302	301
Total Suspended Solids	mg/L	10	<5.0	<5.0	38	<5.0	<5.0	10	<5.0	<5.0	<5.0	<5.0	5	<5.0	<5.0
pH	pH units	6.5-9.0	7.03	7.03	7.01	7.02	7.14	7.21	7.36	6.88	6.93	6.95	6.88	7.2	6.93
Aluminum (Al)-Total	mg/L	0.1	0.0053	<0.0050	0.143	0.0051	0.0054	0.0211	<0.0050	0.0062	<0.0050	0.0197	0.013	0.0072	<0.0050
Antimony (Sb)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00031	<0.00020
Arsenic (As)-Total	mg/L	0.005	0.00104	0.0010	0.0075	0.0011	0.0015	0.0051	0.0013	0.0012	0.0012	0.0013	0.0017	0.0042	0.0018
Barium (Ba)-Total	mg/L		0.0488	0.0512	0.0806	0.0556	0.0717	0.0692	0.064	0.0619	0.0587	0.0688	0.0769	0.0666	0.0737
Beryllium (Be)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<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	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron (B)-Total	mg/L	1.5	<0.010	<0.010	0.012	<0.010	0.013	0.015	0.01	<0.010	<0.010	0.01	0.015	0.012	0.01
Cadmium (Cd)-Total	mg/L	Hardness dependent	0.00031	0.000101	0.00064	0.000022	0.000083	0.000954	<0.000010	0.000102	0.000135	0.000184	0.00012	0.000097	<0.000010
Calcium (Ca)-Total	mg/L		48.5	49	61	54	71	73	60	51	61.4	62	65	65	70
Cesium (Cs)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<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	<0.0010	<0.0010	<0.0010	<0.0010	0.0012	<0.0010	<0.0010	<0.0010
Cobalt (Co)-Total	mg/L		<0.00020	<0.00020	0.00094	<0.00020	<0.00020	0.00041	<0.00020	0.00067	0.00027	0.00039	0.00041	0.00062	0.00072
Copper (Cu)-Total	mg/L	Hardness dependent	0.00196	0.00149	0.00304	0.00147	0.00191	0.00583	0.00115	0.0015	0.00132	0.00293	0.00269	0.00116	0.00098
Iron (Fe)-Total	mg/L	0.3	<0.10	<0.10	1.32	<0.10	0.14	1.39	<0.10	0.19	<0.10	<0.10	0.2	0.46	0.25
Lead (Pb)-Total	mg/L	Hardness dependent	0.000127	<0.000090	0.000621	0.000107	0.00225	0.00323	<0.000090	0.000131	0.000129	0.000686	0.000359	0.000149	<0.000090
Lithium (Li)-Total	mg/L		0.0143	0.0153	0.0168	0.0159	0.0214	0.0192	0.0173	0.0168	0.0181	0.0182	0.0178	0.0186	0.0216
Magnesium (Mg)-Total	mg/L		5.3	5.4	7.25	6.4	7.88	7.25	7.3	6.73	6.7	7.17	7.98	7.29	8.38
Manganese (Mn)-Total	mg/L		0.0945	0.0389	0.378	0.076	0.0448	0.192	0.147	0.662	0.417	0.406	0.446	0.574	0.666
Molybdenum (Mo)-Total	mg/L		<0.00020	0.00023	0.00024	<0.00020	<0.00020	<0.00020	<0.00020	0.00025	<0.00020	0.00023	0.00028	<0.00020	<0.00020
Nickel (Ni)-Total	mg/L	Hardness dependent	<0.0020	<0.0020	0.0043	<0.0020	0.0025	0.0026	<0.0020	<0.0020	0.002	0.0026	0.0027	<0.0020	<0.0020
Phosphorus (P)-Total	mg/L		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Potassium (K)-Total	mg/L		2.48	2.63	3.34	2.89	3.84	3.52	3.17	2.88	3.11	3.42	3.65	3.16	3.21
Rubidium (Rb)-Total	mg/L		0.00305	0.00273	0.00427	0.0033	0.00427	0.00412	0.00378	0.00325	0.00375	0.00413	0.00396	0.00358	0.00408
Selenium (Se)-Total	mg/L	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Silicon (Si)-Total	mg/L		1.08	1.04	1.92	1.39	1.68	1.87	1.79	1.72	1.81	1.79	2.39	1.89	1.72
Silver (Ag)-Total	mg/L	0.0001	<0.00010	<0.00010	0.0004	<0.00010	<0.00010	<0.00010	<0.00010	0.00026	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	mg/L		9.13	9.27	12.4	10.7	12.7	11.7	12.2	10.2	11.2	11.8	13.2	11	12.7
Strontium (Sr)-Total	mg/L		0.291	0.291	0.415	0.351	0.433	0.407	0.396	0.332	0.36	0.372	0.367	0.403	0.449
Tellurium (Te)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<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	<0.00010	<0.00010	<0.00010	<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	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Tin (Sn)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	0.00252	0.00039	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Titanium (Ti)-Total	mg/L		<0.00050	0.00058	0.00635	<0.00050	0.00057	0.00153	<0.00050	0.00057	<0.00050	0.00099	0.00094	<0.00050	<0.00050
Tungsten (W)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Uranium (U)-Total	mg/L	0.015	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Vanadium (V)-Total	mg/L		<0.00020	<0.00020	0.00049	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Zinc (Zn)-Total	mg/L	0.03	0.006	0.0037	0.0099	0.0043	0.0069	0.0115	<0.0020	0.0065	0.0035	0.0221	0.0172	0.0056	<0.0020
Zirconium (Zr)-Total	mg/L		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Field pH	pH units			8.01	7.16	7.17	NA	NA	7.93	7.35	6.98	7.24	7.43	7.07	7.64
Field T0	oC			0.3	0.4	0.3	NA	NA	0.3	0.2	0.2	0.2	0.4	0.6	0.9
Field Conductivity	ms/cm			0.8	0.8	0.35	NA	NA	0.4	0.37	0.38	0.43	0.41	0.45	0.44

MELIADINE GOLD PROJECT

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			2013-Woody (Beg)	2013-Woody (Beg)	2013-Woody (Med)
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
Field pH	pH units				7.18
Field T0	oC				0.2
Field Conductivity	ms/cm				0.37

MELIADINE GOLD PROJECT
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			2013-Angry Bird	2013-Angry Bird	2013-Angry Bird	2013-Angry Bird	2013-Angry Bird	2013-Angry Bird	2013-Angry Bird
			Beg	Mid	Mid	Mid	Mid	Mid	Mid
Parameters	Unit	Limits	28/03/2013	13/04/2013	20/04/2013	27/04/2013	04/05/2013	20/05/2013	24/05/2013
Chloride	mg/L		50.3	52.3	52.5	94.5	92.9	57	56
Conductivity	umhos/cm		383	397	400	696	687	433	422
Hardness (as CaCO3)	mg/L		163	153	165	295	301	188	195
Mercury (Hg)-Total	mg/L	0.000026	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Oil & Grease-(IR)	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Sodium Adsorption Ratio			0.33	0.35	0.35	0.48	0.51	0.36	0.4
Sulfate	mg/L		9.29	9.39	9.33	16.7	15.4	10.3	9.54
TDS (Calculated from EC)	mg/L		249	258	260	453	447	281	274
Total Suspended Solids	mg/L	10	<5.0	<5.0	<5.0	8	8	<5.0	<5.0
pH	pH units	6.5-9.0	7.17	6.94	6.99	7.09	6.93	7.29	6.96
Aluminum (Al)-Total	mg/L	0.1	<0.0050	0.0103	0.0114	0.0112	0.0139	<0.0050	<0.0050
Antimony (Sb)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Arsenic (As)-Total	mg/L	0.005	0.00255	0.00241	0.0027	0.0142	0.0252	0.0024	0.00286
Barium (Ba)-Total	mg/L		0.0546	0.0583	0.0575	0.127	0.136	0.0695	0.0673
Beryllium (Be)-Total	mg/L		<0.00020	<0.00020	<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	<0.00020	<0.00020
Boron (B)-Total	mg/L	1.5	<0.010	<0.010	<0.010	<0.010	0.01	<0.010	<0.010
Cadmium (Cd)-Total	mg/L	Hardness dependent	0.000035	0.000224	0.000396	0.000114	0.00007	0.000032	<0.000010
Calcium (Ca)-Total	mg/L		56	50.7	55.9	99	100	64	65
Cesium (Cs)-Total	mg/L		<0.00010	<0.00010	<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	<0.0010	<0.0010
Cobalt (Co)-Total	mg/L		<0.00020	<0.00020	<0.00020	0.00141	0.00179	<0.00020	<0.00020
Copper (Cu)-Total	mg/L	Hardness dependent	0.00141	0.00213	0.00168	0.00312	0.00229	0.00103	0.0009
Iron (Fe)-Total	mg/L	0.3	0.11	0.17	0.2	2.11	3.85	0.19	0.14
Lead (Pb)-Total	mg/L	Hardness dependent	<0.000090	0.00019	0.000335	0.000572	0.000196	<0.000090	<0.000090
Lithium (Li)-Total	mg/L		0.0097	0.0103	0.0101	0.018	0.0177	0.0113	0.0118
Magnesium (Mg)-Total	mg/L		5.77	6.43	6.08	11.4	12.5	6.75	7.82
Manganese (Mn)-Total	mg/L		0.0732	0.108	0.105	1.15	1.39	0.355	0.495
Molybdenum (Mo)-Total	mg/L		<0.00020	<0.00020	<0.00020	0.0004	0.00038	<0.00020	<0.00020
Nickel (Ni)-Total	mg/L	Hardness dependent	<0.0020	<0.0020	<0.0020	0.0041	0.0043	<0.0020	<0.0020
Phosphorus (P)-Total	mg/L		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Potassium (K)-Total	mg/L		2.81	2.79	2.98	5.25	5.3	2.89	3.01
Rubidium (Rb)-Total	mg/L		0.00306	0.00325	0.00349	0.00641	0.00593	0.00333	0.00382
Selenium (Se)-Total	mg/L	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Silicon (Si)-Total	mg/L		2.04	2.3	2.25	3.28	4.63	2.46	2.49
Silver (Ag)-Total	mg/L	0.0001	<0.00010	0.00063	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	mg/L		9.72	10	10.4	18.9	20.5	11.3	12.7
Strontium (Sr)-Total	mg/L		0.252	0.257	0.252	0.469	0.482	0.307	0.327
Tellurium (Te)-Total	mg/L		<0.00020	<0.00020	<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	<0.00010	<0.00010
Thorium (Th)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Tin (Sn)-Total	mg/L		<0.00020	<0.00020	<0.00020	0.00024	<0.00020	<0.00020	<0.00020
Titanium (Ti)-Total	mg/L		<0.00050	0.00118	0.00079	0.0009	0.00121	<0.00050	<0.00050
Tungsten (W)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Uranium (U)-Total	mg/L	0.015	<0.00010	<0.00010	<0.00010	0.00015	0.00014	<0.00010	<0.00010
Vanadium (V)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Zinc (Zn)-Total	mg/L	0.03	0.0048	0.01	0.0107	0.0304	0.0103	0.0107	<0.0020
Zirconium (Zr)-Total	mg/L		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Field pH	pH units		NA	7.4	6.7	7.46	7.3	6.56	7.6
Field T0	oC		NA	0.2	0.2	0.2	0.5	0.2	0.7
Field Conductivity	ms/cm		NA	0.35	0.35	0.54	0.74	0.4	0.4

MELIADINE GOLD PROJECT

ENVIRONMENTAL REPORT MAY 2013

			2013-A1	2013-A1	2013-A1
			MID	MID	MID
Parameters	Unit	Limits	21/04/2013	27/04/2013	04/05/2013
Chloride	mg/L		109	118	116
Conductivity	umhos/cm		873	918	900
Hardness (as CaCO3)	mg/L		384	420	404
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			0.54	0.58	0.56
Sulfate	mg/L		24.8	24.9	23.2
TDS (Calculated from EC)	mg/L		567	597	585
Total Suspended Solids	mg/L	10	20	35	30
pH	pH units	6.5-9.0	7.03	7.13	6.98
Aluminum (Al)-Total	mg/L	0.1	0.005	0.966	0.433
Antimony (Sb)-Total	mg/L		<0.00020	<0.00020	<0.00020
Arsenic (As)-Total	mg/L	0.005	0.0199	0.0361	0.0169
Barium (Ba)-Total	mg/L		0.111	0.141	0.122
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	0.000048	0.00015	0.000074
Calcium (Ca)-Total	mg/L		132	143	136
Cesium (Cs)-Total	mg/L		<0.00010	0.00013	<0.00010
Chromium (Cr)-Total	mg/L		<0.0010	0.0059	0.0019
Cobalt (Co)-Total	mg/L		0.00124	0.00205	0.00159
Copper (Cu)-Total	mg/L	Hardness dependent	0.00247	0.00631	0.00342
Iron (Fe)-Total	mg/L	0.3	6.41	9.97	6.38
Lead (Pb)-Total	mg/L	Hardness dependent	<0.000090	0.000864	0.000362
Lithium (Li)-Total	mg/L		0.0203	0.0221	0.0218
Magnesium (Mg)-Total	mg/L		13.6	15.2	15.5
Manganese (Mn)-Total	mg/L		0.766	0.925	0.876
Molybdenum (Mo)-Total	mg/L		0.00062	0.00079	0.00069
Nickel (Ni)-Total	mg/L	Hardness dependent	0.0036	0.006	0.0046
Phosphorus (P)-Total	mg/L		<0.10	0.12	<0.10
Potassium (K)-Total	mg/L		5.72	6.23	6.21
Rubidium (Rb)-Total	mg/L		0.00756	0.00911	0.00774
Selenium (Se)-Total	mg/L	0.001	<0.0010	<0.0010	<0.0010
Silicon (Si)-Total	mg/L		5.37	6.82	7.18
Silver (Ag)-Total	mg/L	0.0001	<0.00010	0.00027	<0.00010
Sodium (Na)-Total	mg/L		24.2	27.4	26.1
Strontium (Sr)-Total	mg/L		0.554	0.659	0.641
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	0.00025	0.00011
Tin (Sn)-Total	mg/L		<0.00020	<0.00020	0.00032
Titanium (Ti)-Total	mg/L		0.00093	0.0385	0.0165
Tungsten (W)-Total	mg/L		<0.00010	0.0027	0.00118
Uranium (U)-Total	mg/L	0.015	0.00045	0.00049	0.00041
Vanadium (V)-Total	mg/L		0.00044	0.00379	0.00177
Zinc (Zn)-Total	mg/L	0.03	<0.0020	0.0282	0.0122
Zirconium (Zr)-Total	mg/L		<0.00040	0.00056	<0.00040
Field pH	pH units		6.85	7.5	7.46
Field T0	oC		0.3	0.3	0.4
Field Conductivity	ms/cm			0.89	0.17

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.
