



30 July 2010

Ms. Phyllis Beaulieu
 Licencing Coordinator
 Nunavut Water Board
 P.O. Box 119
 Gjoa Haven
 NU, X0B1J0

Re: Water License 2BB-MEL0914: June 2010 Monthly Report: Meliadine Gold Project

Dear Ms. Beaulieu;

Please find attached Agnico-Eagle's monthly report for the month of June 2010 for the Meliadine Gold Project.

On June 28th, the Meliadine Gold Project received its amendment increasing the allowable water use from 90 m³/day to 290 m³/day. This amendment adequately allows for the indirect and direct use of water under this licence.

Additional data is presented at the end of this report as has been the practise for several years. Extra care is being taken in measuring the field pH and temperature as outlined in the QA/QC Plan. This aspect is important as the field pH and field temperature have a direct bearing on the guideline for ammonia under the CCME fresh water guidelines for aquatic life. This guideline is field pH and field temperature dependent as shown in the table 1 below.

Table 1. Water quality guideline for total ammonia for the protection of aquatic life (mg·L⁻¹ N)¹

Temp (°C)	pH							
	6.0	6.5	7.0	7.5	8.0	8.5	9.0	10
0	189	59.9	18.9	6.00	1.91	0.614	0.205	0.034
5	125	39.6	12.5	3.97	1.26	0.412	0.141	0.028
10	83.6	26.6	8.45	2.67	0.853	0.281	0.099	0.024
15	57.2	18.0	5.72	1.82	0.586	0.196	0.073	0.021
20	39.4	12.5	3.95	1.26	0.409	0.140	0.055	0.020
25	27.5	8.69	2.76	0.886	0.290	0.103	0.043	0.018
30	19.4	6.15	1.96	0.629	0.210	0.077	0.035	0.017

¹ The CCME guideline for freshwater aquatic life is normally presented as (mg/L NH³). The table above has been converted to (mg/L N), this being how nitrogen species are reported in the attached data report.

Although faecal coliform samples were collected for Mel-3 and Mel-4, the time to get the samples to the laboratory exceeded 24 hours and the temperature within the cooler holding the samples was to 13.4 °C upon receipt, not the recommended 4 °C. The results were therefore unreliable and have not been included in this report. Also, total suspended sediments were inadvertently missed during the sample analyses and are not included.

Yours sincerely,

John Witteman
Environmental Consultant to Agnico-Eagle

Cc. Luis Manzo & Stephen Hartman, Kivalliq Inuit Association
Louise Grondin & Larry Connell, Agnico-Eagle Mines Limited

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Part J: Conditions Applying to the Monitoring Program

(1) Volume of Water

	Volume of water (m ³ /day)
MEL-1	5.9
MEL-2	159

The BIODisk and the associated wash car are being commissioned, and water use is expected to increase due to the use of flush toilets. Flush toilets were not available on site before the wash car became operational.

Three drills were operating over the time period and each drill uses 53 m³/day.

(2) Analytical Data for Gray water Monitoring

	Biochemical Oxygen Demand (mg/L)	Faecal Coliforms (CFU/dL)	Total Suspended Sediments (mg/L)	pH	Oil and Grease (mg/L)
MEL-3	8.1	Not available	NA	7.1	<1
MEL-4	<2.0	NA	NA	6.8	<1

(3) No drilling program was carried out on lake ice over the reporting period.

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CCME						0.1	variable		0.005			
MMER									0.5			
Sample ID	Sample_Date	Sample_Time	field PH	field temp (°C)	Alkalinity, Total (as CaCO3) (mg/L)	Aluminum (Al)-Total (mg/L)	Ammonia-N (mg/L)	Antimony (Sb)-Total (mg/L)	Arsenic (As)-Total (mg/L)	Barium (Ba)-Total (mg/L)	Beryllium (Be)-Total (mg/L)	Bicarbonate (HCO3) (mg/L)
A13	20-Jun-10	14:20	7.7	13.4	22.6	0.048	<0.050	<0.0016	0.0032	0.0751	<0.0040	27.6
A15	20-Jun-10	14:40	7.7	14.2	27.6	0.015	<0.050	<0.00040	0.00299	0.0713	<0.0010	33.7
A38	20-Jun-10	14:00	7.9	9.1	50.7	0.014	0.200	<0.00040	0.00285	0.0394	<0.0010	61.8
A54	20-Jun-10	14:10	8.0	10.4	49.4	0.044	0.739	<0.00040	0.00323	0.0401	<0.0010	60.2
A8-7	20-Jun-10	13:40	7.5	3.0	14.9	<0.010	<0.050	<0.00040	0.00108	0.0125	<0.0010	18.1
A9	20-Jun-10	15:00	8.0	12.1	34.6	<0.010	<0.050	0.00058	0.00203	0.0709	<0.0010	42.2
B7-6	20-Jun-10	13:00	7.5	5.4	16.1	<0.010	<0.050	<0.00040	0.00072	0.0154	<0.0010	19.6
CONTROL	20-Jun-10	13:20	7.4	4.1	22.3	<0.010	<0.050	<0.00040	<0.00040	0.0095	<0.0010	27.2
MEL-1	20-Jun-10	10:00	7.1	4.2	<5.0	<0.010	<0.050	<0.00040	<0.00040	<0.0030	<0.0010	5.6
MEL-2	20-Jun-10	10:20	7.7	2.8	9.6	<0.010	<0.050	<0.00040	0.00074	0.0086	<0.0010	11.7
MEL-3	20-Jun-10	10:40	7.1	9.8	52.0	0.034		0.00086	0.00423	0.0112	<0.0010	63.5
MEL-4	20-Jun-10	11:00	6.8	4.0	<5.0	<0.010	<0.050	<0.00040	<0.00040	<0.0030	<0.0010	<5.0
MEL-4dup	20-Jun-10	00:00			<5.0	<0.010	<0.050	<0.00040	<0.00040	<0.0030	<0.0010	<5.0
ML-R	21-Jun-10	08:30			25.4	0.011	<0.050	<0.00040	<0.00040	0.0133	<0.0010	31.0
P1	20-Jun-10	14:30	8.0	11.6	51.2	0.018	1.07	<0.00040	0.00670	0.0234	<0.0010	62.5
CCME ammonia guideline is 0.853 mg/L N for sample sites A54, A38 and P1 based on field pH and field temperature.												

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CCME			0.017					0.001			0.002-0.004	
MMER											0.3	
Sample ID	BOD5 (mg/L)	Boron (B)-Total (mg/L)	Cadmium (Cd)-Total (mg/L)	Calcium (Ca)-Dissolved (mg/L)	Calcium (Ca)-Total (mg/L)	Carbonate (CO3) (mg/L)	Chloride (Cl) (mg/L)	Chromium (Cr)-Total (mg/L)	Cobalt (Co)-Total (mg/L)	Conductivity (EC) (uS/cm)	Copper (Cu)-Total (mg/L)	Hardness (as CaCO3) (mg/L)
A13		<0.050	<0.000050	103	107	<5.0	228	<0.0050	<0.0020	835	<0.0040	284
A15		<0.050	<0.000050	71.7	74.4	<5.0	141	<0.0050	<0.0020	547	0.0015	215
A38		<0.050	<0.000050	53.5	49.7	<5.0	89.6	<0.0050	<0.0020	461	0.0013	167
A54		<0.050	<0.000050	49.9	50.7	<5.0	94.6	<0.0050	<0.0020	498	0.0014	156
A8-7		<0.050	<0.000050	9.78	10.8	<5.0	13.2	<0.0050	<0.0020	81.1	<0.0010	29.8
A9		<0.050	<0.000050	59.8	66.9	<5.0	123	<0.0050	<0.0020	502	0.0012	175
B7-6		<0.050	<0.000050	13.2	14.4	<5.0	18.0	<0.0050	<0.0020	103	<0.0010	38.0
CONTROL		<0.050	<0.000050	7.01	6.98	<5.0	4.93	<0.0050	<0.0020	59.7	<0.0010	21.2
MEL-1		<0.050	<0.000050	1.58	1.92	<5.0	1.51	<0.0050	<0.0020	13.9	<0.0010	4.9
MEL-2		<0.050	<0.000050	6.66	7.20	<5.0	9.26	<0.0050	<0.0020	55.4	<0.0010	20.5
MEL-3	8.1	<0.050	<0.000050	15.7	15.3	<5.0	21.4	<0.0050	<0.0020	213	0.0068	45.9
MEL-4	<2.0	<0.050	<0.000050	1.16	1.33	<5.0	0.96	<0.0050	<0.0020	9.09	<0.0010	3.4
MEL-4dup		<0.050	<0.000050	1.18	1.49	<5.0	1.23	<0.0050	<0.0020	9.72	<0.0010	3.5
ML-R		<0.050	<0.000050	8.96	9.72	<5.0	9.51	<0.0050	<0.0020	88.5	0.0011	27.9
P1		<0.050	<0.000050	33.3	32.2	<5.0	39.2	<0.0050	<0.0020	290	0.0013	100

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CCME			0.3	0.001-0.007						0.073	0.025-0.015	2.9
MMER				0.2							0.5	
Sample ID	Hydroxide (OH) (mg/L)	Ion Balance (%)	Iron (Fe)-Total (mg/L)	Lead (Pb)-Total (mg/L)	Lithium (Li)-Total (mg/L)	Magnesium (Mg)-Dissolved (mg/L)	Magnesium (Mg)-Total (mg/L)	Manganese (Mn)-Total (mg/L)	Mercury (Hg)-Total (mg/L)	MF - Faecal Coliforms (l)	Molybdenum (Mo)-Total (mg/L)	Nickel (Ni)-Total (mg/L)
A13	<5.0	91.2	0.507	0.00051	0.065	6.57	6.73	0.111	<0.00010		<0.0050	0.0051
A15	<5.0	103	0.218	0.00011	0.026	8.73	8.62	0.0679	<0.00010		<0.0050	0.0051
A38	<5.0	104	0.063	<0.00010	<0.010	8.19	7.35	0.0058	<0.00010		<0.0050	0.0027
A54	<5.0	92.9	0.107	0.00020	<0.010	7.64	7.76	0.0039	<0.00010		<0.0050	0.0033
A8-7	<5.0	Low EC	0.078	<0.00010	<0.010	1.31	1.42	0.0292	<0.00010		<0.0050	<0.0020
A9	<5.0	90.9	0.144	<0.00010	0.030	6.20	6.75	0.0039	<0.00010		<0.0050	0.0029
B7-6	<5.0	99.8	0.090	<0.00010	<0.010	1.22	1.34	0.0240	<0.00010		<0.0050	<0.0020
CONTROL	<5.0	Low EC	0.099	<0.00010	<0.010	0.89	0.88	0.0151	<0.00010		<0.0050	<0.0020
MEL-1	<5.0	Low EC	0.027	<0.00010	<0.010	0.23	0.26	0.0073	<0.00010		<0.0050	<0.0020
MEL-2	<5.0	Low EC	0.052	<0.00010	<0.010	0.93	0.96	0.0469	<0.00010		<0.0050	<0.0020
MEL-3	<5.0	98.1	0.179	0.00288	<0.010	1.63	1.61	0.0762	<0.00010	Note	<0.0050	0.0025
MEL-4	<5.0	Low EC	<0.010	<0.00010	<0.010	0.12	0.13	0.0030	<0.00010	Note	<0.0050	<0.0020
MEL-4dup	<5.0	Low EC	0.017	<0.00010	<0.010	0.13	0.16	0.0036	<0.00010		<0.0050	<0.0020
ML-R	<5.0	Low EC	0.057	<0.00010	<0.010	1.33	1.44	0.0062	<0.00010		<0.0050	<0.0020
P1	<5.0	93.1	0.064	0.00015	<0.010	4.17	4.13	0.0246	<0.00010		<0.0050	0.0030
Note: Faecal coliforms tests are time sensitive and samples were not received by the laboratory within the recommended 24 hrs												

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CCME			0.06			6.5 - 9.0	0.03					
MMER						6.0 - 9.5						
Sample ID	Nitrate (as N) (mg/L)	Nitrate and Nitrite as N (mg/L)	Nitrite (as N) (mg/L)	Oil and Grease (mg/L)	Orthophosphate (PO ₄ -P) (mg/L)	pH (pH)	Phosphorus, Total (mg/L)	Potassium (K)-Dissolved (mg/L)	Potassium (K)-Total (mg/L)	Selenium (Se)-Total (mg/L)	Silver (Ag)-Total (mg/L)	Sodium (Na)-Dissolved (mg/L)
A13	<0.050	<0.071	<0.050		<0.010	7.51	<0.020	4.97	5.12	0.0052	<0.0020	12.9
A15	<0.050	<0.071	<0.050		<0.010	7.66	<0.020	3.19	3.26	0.00157	<0.00050	9.9
A38	0.655	0.655	<0.050		<0.010	7.96	<0.020	4.11	3.61	0.00084	<0.00050	18.3
A54	1.25	1.25	<0.050		<0.010	7.97	<0.020	3.80	3.97	0.00102	<0.00050	17.9
A8-7	<0.050	<0.071	<0.050		<0.010	7.40	<0.020	0.63	0.71	<0.00040	<0.00010	1.9
A9	<0.050	<0.071	<0.050		<0.010	7.79	<0.020	2.64	2.94	<0.00040	<0.00050	7.9
B7-6	<0.050	<0.071	<0.050		<0.010	7.40	<0.020	0.71	0.85	<0.00040	<0.00010	1.8
CONTROL	<0.050	<0.071	<0.050		<0.010	7.49	<0.020	0.91	0.90	<0.00040	<0.00010	3.0
MEL-1	<0.050	<0.071	<0.050		<0.010	6.93	<0.020	<0.50	0.15	<0.00040	<0.00010	<1.0
MEL-2	<0.050	<0.071	<0.050		<0.010	7.18	<0.020	<0.50	0.46	<0.00040	<0.00010	1.5
MEL-3	<0.050	<0.071	<0.050	<1.0	0.414	7.37		2.69	2.69	<0.00040	<0.00010	21.5
MEL-4	<0.050	<0.071	<0.050	<1.0	<0.010	6.75	<0.020	<0.50	<0.10	<0.00040	<0.00010	<1.0
MEL-4dup	<0.050	<0.071	<0.050		0.010	6.81	0.094	<0.50	0.12	<0.00040	<0.00010	<1.0
ML-R	<0.050	<0.071	<0.050		<0.010	7.67	<0.020	1.13	1.28	<0.00040	<0.00010	5.0
P1	1.54	1.54	<0.050		<0.010	7.98	<0.020	2.46	2.48	0.00061	<0.00050	6.5

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CCME							29			0.03
MMER							15			0.5
Sample ID	Sodium (Na)-Total (mg/L)	Sulfate (SO4) (mg/L)	TDS (Calculated) (mg/L)	Thallium (Tl)-Total (mg/L)	Tin (Sn)-Total (mg/L)	Titanium (Ti)-Total (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Uranium (U)-Total (mg/L)	Vanadium (V)-Total (mg/L)	Zinc (Zn)-Total (mg/L)
A13	13.2	4.73	374	<0.00040	<0.050	<0.0024	0.70	<0.00040	<0.0020	<0.016
A15	9.8	7.70	259	<0.00010	<0.050	<0.0010	0.91	<0.00010	0.0016	<0.0040
A38	16.7	25.3	232	<0.00010	<0.050	<0.0010	1.32	0.00033	<0.0010	<0.0040
A54	18.2	29.5	239	<0.00010	<0.050	<0.0010	1.58	0.00041	<0.0010	<0.0040
A8-7	2.3	1.36	37.1	<0.00010	<0.050	<0.0010	0.35	<0.00010	<0.0010	<0.0040
A9	9.1	6.60	227	<0.00010	<0.050	<0.0010	0.84	<0.00010	<0.0010	<0.0040
B7-6	2.2	1.36	46.0	<0.00010	<0.050	<0.0010	0.38	<0.00010	<0.0010	<0.0040
CONTROL	2.9	0.97	31.1	<0.00010	<0.050	<0.0010	0.56	<0.00010	<0.0010	<0.0040
MEL-1	<1.0	0.83	4.2	<0.00010	<0.050	<0.0010	<0.20	<0.00010	<0.0010	<0.0040
MEL-2	1.7	1.14	25.3	<0.00010	<0.050	<0.0010	0.41	<0.00010	<0.0010	<0.0040
MEL-3	20.9	15.1	109	<0.00010	<0.050	0.0026		<0.00010	<0.0010	0.0088
MEL-4	1.1	0.70	2.9	<0.00010	<0.050	<0.0010	<0.20	<0.00010	<0.0010	<0.0040
MEL-4dup	1.7	0.85	3.4	<0.00010	<0.050	<0.0010	<0.20	<0.00010	<0.0010	<0.0040
ML-R	5.7	3.44	44.6	<0.00010	<0.050	<0.0010	0.47	<0.00010	<0.0010	<0.0040
P1	6.8	17.6	141	<0.00010	<0.050	<0.0010	2.04	0.00030	<0.0010	<0.0040