

MELIADINE GOLD PROJECT

MONTHLY ENVIRONMENTAL REPORT: OCTOBER 2011

MELIADINE GOLD PROJECT
MONTHLY ENVIRONMENTAL REPORT

Executive summary

Environment

- The monthly report is delivered under water licence 2BB-MEL0914, PART J, items 13.
- Monthly monitoring program has been done on October 9th to 11th. Monitoring station MEL-3, MEL-3a, MEL-5 and MEL-6 where not sample this month because no effluent were observed at those stations during the sampling periode.
- The detailed results of the enhance Monthly Monitoring Programme (including results for monitoring station not subject to special attention under water licence 2BB-MEL0914, PART J, iteme 13) are available in APPENDIX 1: MONTHLY SAMPLING RESULTS.
- Items 3 is not all available for this month (GPS coordinates for location where sources of water are utilized). Mel-1: 541 934 E 6 989 173 N
- Items 5 is not applicable this month. There was no effluent at MEL-5 and MEL-6 stations.
- Items 6 is not applicable this month. There was no drilling activites on ice.

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1. WATER USAGE (ITEM 2)

Table 1. The consumption of fresh water for the site was 21.38 m³/day for the month of October 2011

	October
Camp (m ³ /day)	21.38
Drill (m ³ /day)	No record
Total for the month (m³/day)	21.38

Note *: Following an agreement during a visit on site on August 1st, 2009 with an inspector a letter sent to the Nunavut Water Board (January 15, 2010) mentioned: *"It was also agreed to record water use by the drills until October 1st or the end of the drilling season, whatever came first."*

2. MONITORING STATIONS (ITEM 4)

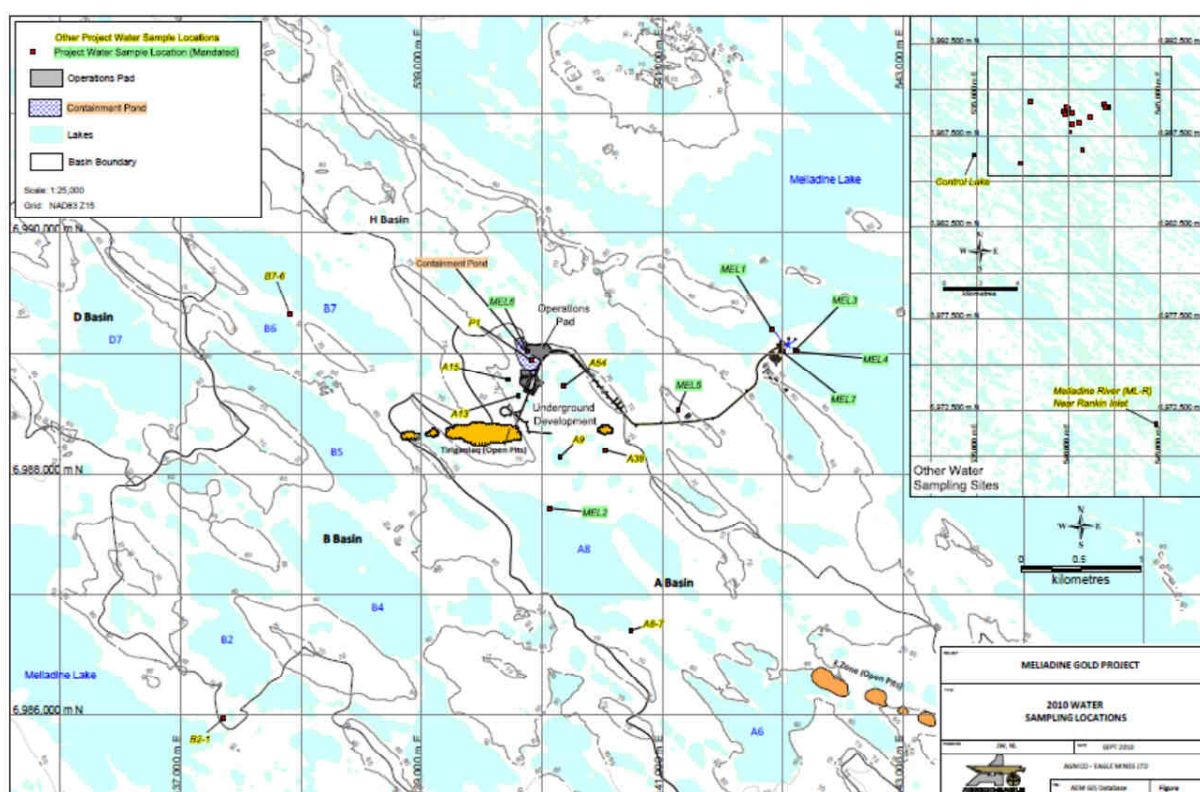
Table 2. Station MEL-4 and MEL-7 lab results. The station has been sampled on October 11th

	BOD-5	TSS	Oil and Grease	Faecal Coliforms	pH
MEL-4	<6.0	12	<1.0	93	7.59
MEL-7	<6.0	29	<1.0	230	7.59

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APPENDIX 1: MONTHLY SAMPLING RESULT



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A8-7					
Parameters	Units	Results	Parameters	Units	Results
Ammonia as N	mg/L	<0.050	Rubidium (Rb)-Total	mg/L	0.00134
Mercury (Hg)-Total	mg/L	<0.000050	Selenium (Se)-Total	mg/L	<0.0050
Phosphorus (P)-Total	mg/L	<0.010	Silicon (Si)-Total	mg/L	0.91
Phosphorus (P)-Total Reactive	mg/L	<0.010	Silver (Ag)-Total	mg/L	<0.0010
Total Kjeldahl Nitrogen	mg/L	0.4	Sodium (Na)-Total	mg/L	4.71
Total Suspended Solids	mg/L	<5.0	Strontium (Sr)-Total	mg/L	0.14
Alkalinity, Total (as CaCO ₃)	mg/L	37.5	Tellurium (Te)-Total	mg/L	<0.0010
Bicarbonate (HCO ₃)	mg/L	45.8	Thallium (Tl)-Total	mg/L	<0.0050
Carbonate (CO ₃)	mg/L	<0.60	Thorium (Th)-Total	mg/L	<0.0010
Hydroxide (OH)	mg/L	<0.40	Tin (Sn)-Total	mg/L	<0.00060
Calcium (Ca)-Dissolved	mg/L	26.3	Titanium (Ti)-Total	mg/L	<0.0010
Magnesium (Mg)-Dissolved	mg/L	3.34	Tungsten (W)-Total	mg/L	<0.0020
Potassium (K)-Dissolved	mg/L	1.54	Uranium (U)-Total	mg/L	<0.00050
Sodium (Na)-Dissolved	mg/L	5.37	Vanadium (V)-Total	mg/L	<0.0020
Chloride	mg/L	31.9	Zinc (Zn)-Total	mg/L	<0.020
Conductivity	umhos/cm	178	Zirconium (Zr)-Total	mg/L	<0.0010
Fluoride	mg/L	<0.10	Turbidity	NTU	0.57
Hardness (as CaCO ₃)	mg/L	75.8	pH	pH units	7.81
Nitrate-N	mg/L	<0.050	Field Water Temperature	oC	1.2
Nitrate and Nitrite as N	mg/L	<0.071			
Nitrite-N	mg/L	<0.050			
Sulfate	mg/L	4.88			
TDS (Calculated)	mg/L	93.6			
Aluminum (Al)-Total	mg/L	<0.020			
Antimony (Sb)-Total	mg/L	<0.0010			
Arsenic (As)-Total	mg/L	0.0016			
Barium (Ba)-Total	mg/L	0.0172			
Beryllium (Be)-Total	mg/L	<0.0010			
Bismuth (Bi)-Total	mg/L	<0.00050			
Boron (B)-Total	mg/L	<0.030			
Cadmium (Cd)-Total	mg/L	<0.00020			
Calcium (Ca)-Total	mg/L	25.1			
Cesium (Cs)-Total	mg/L	<0.00050			
Chromium (Cr)-Total	mg/L	<0.0020			
Cobalt (Co)-Total	mg/L	<0.00050			
Copper (Cu)-Total	mg/L	<0.0020			
Iron (Fe)-Total	mg/L	<0.10			
Lead (Pb)-Total	mg/L	<0.0010			
Lithium (Li)-Total	mg/L	0.0077			
Magnesium (Mg)-Total	mg/L	3.2			
Manganese (Mn)-Total	mg/L	0.0089			
Molybdenum (Mo)-Total	mg/L	<0.00050			
Nickel (Ni)-Total	mg/L	<0.0020			
Phosphorus (P)-Total	mg/L	<0.50			5
Potassium (K)-Total	mg/L	1.31	9-Oct		

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B7-6					
Parameters	Units	Results	Parameters	Units	Results
Ammonia as N	mg/L	<0.050	Rubidium (Rb)-Total	mg/L	0.00127
Mercury (Hg)-Total	mg/L	<0.000050	Selenium (Se)-Total	mg/L	<0.0050
Phosphorus (P)-Total	mg/L	<0.010	Silicon (Si)-Total	mg/L	0.38
Phosphorus (P)-Total Reactive	mg/L	<0.010	Silver (Ag)-Total	mg/L	<0.0010
Total Kjeldahl Nitrogen	mg/L	0.41	Sodium (Na)-Total	mg/L	3.58
Total Suspended Solids	mg/L	<5.0	Strontium (Sr)-Total	mg/L	0.172
Alkalinity, Total (as CaCO ₃)	mg/L	32.1	Tellurium (Te)-Total	mg/L	<0.0010
Bicarbonate (HCO ₃)	mg/L	39.2	Thallium (Tl)-Total	mg/L	<0.0050
Carbonate (CO ₃)	mg/L	<0.60	Thorium (Th)-Total	mg/L	<0.0010
Hydroxide (OH)	mg/L	<0.40	Tin (Sn)-Total	mg/L	<0.00060
Calcium (Ca)-Dissolved	mg/L	26.3	Titanium (Ti)-Total	mg/L	<0.0010
Magnesium (Mg)-Dissolved	mg/L	2.35	Tungsten (W)-Total	mg/L	<0.0020
Potassium (K)-Dissolved	mg/L	1.4	Uranium (U)-Total	mg/L	<0.00050
Sodium (Na)-Dissolved	mg/L	3.78	Vanadium (V)-Total	mg/L	<0.0020
Chloride	mg/L	35.6	Zinc (Zn)-Total	mg/L	<0.020
Conductivity	umhos/cm	182	Zirconium (Zr)-Total	mg/L	<0.0010
Fluoride	mg/L	<0.10	Turbidity	NTU	0.58
Hardness (as CaCO ₃)	mg/L	74.7	pH	pH units	7.75
Nitrate-N	mg/L	<0.050	Field Water Temperature	oC	0.6
Nitrate and Nitrite as N	mg/L	<0.071			
Nitrite-N	mg/L	<0.050			
Sulfate	mg/L	4.48			
TDS (Calculated)	mg/L	92.6			
Aluminum (Al)-Total	mg/L	<0.020			
Antimony (Sb)-Total	mg/L	<0.0010			
Arsenic (As)-Total	mg/L	<0.0010			
Barium (Ba)-Total	mg/L	0.0194			
Beryllium (Be)-Total	mg/L	<0.0010			
Bismuth (Bi)-Total	mg/L	<0.00050			
Boron (B)-Total	mg/L	<0.030			
Cadmium (Cd)-Total	mg/L	<0.00020			
Calcium (Ca)-Total	mg/L	26			
Cesium (Cs)-Total	mg/L	<0.00050			
Chromium (Cr)-Total	mg/L	<0.0020			
Cobalt (Co)-Total	mg/L	<0.00050			
Copper (Cu)-Total	mg/L	<0.0020			
Iron (Fe)-Total	mg/L	<0.10			
Lead (Pb)-Total	mg/L	<0.0010			
Lithium (Li)-Total	mg/L	0.0095			
Magnesium (Mg)-Total	mg/L	2.39			
Manganese (Mn)-Total	mg/L	0.0038			
Molybdenum (Mo)-Total	mg/L	<0.00050			
Nickel (Ni)-Total	mg/L	<0.0020			
Phosphorus (P)-Total	mg/L	<0.50			6
Potassium (K)-Total	mg/L	1.28	9-Oct		

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B2-1					
Parameters	Units	Results	Parameters	Units	Results
Ammonia as N	mg/L	<0.050	Rubidium (Rb)-Total	mg/L	0.00102
Mercury (Hg)-Total	mg/L	<0.000050	Selenium (Se)-Total	mg/L	<0.0050
Phosphorus (P)-Total	mg/L	<0.010	Silicon (Si)-Total	mg/L	0.31
Phosphorus (P)-Total Reactive	mg/L	<0.010	Silver (Ag)-Total	mg/L	<0.0010
Total Kjeldahl Nitrogen	mg/L	0.37	Sodium (Na)-Total	mg/L	4.4
Total Suspended Solids	mg/L	<5.0	Strontium (Sr)-Total	mg/L	0.0589
Alkalinity, Total (as CaCO ₃)	mg/L	33.3	Tellurium (Te)-Total	mg/L	<0.0010
Bicarbonate (HCO ₃)	mg/L	40.7	Thallium (Tl)-Total	mg/L	<0.0050
Carbonate (CO ₃)	mg/L	<0.60	Thorium (Th)-Total	mg/L	<0.0010
Hydroxide (OH)	mg/L	<0.40	Tin (Sn)-Total	mg/L	<0.00060
Calcium (Ca)-Dissolved	mg/L	15.2	Titanium (Ti)-Total	mg/L	<0.0010
Magnesium (Mg)-Dissolved	mg/L	1.61	Tungsten (W)-Total	mg/L	<0.0020
Potassium (K)-Dissolved	mg/L	1.1	Uranium (U)-Total	mg/L	<0.00050
Sodium (Na)-Dissolved	mg/L	4.51	Vanadium (V)-Total	mg/L	<0.0020
Chloride	mg/L	11	Zinc (Zn)-Total	mg/L	<0.020
Conductivity	umhos/cm	110	Zirconium (Zr)-Total	mg/L	<0.0010
Fluoride	mg/L	<0.10	Turbidity	NTU	0.72
Hardness (as CaCO ₃)	mg/L	43.4	pH	pH units	7.74
Nitrate-N	mg/L	<0.050	Field Water Temperature	oC	1
Nitrate and Nitrite as N	mg/L	<0.071			
Nitrite-N	mg/L	<0.050			
Sulfate	mg/L	5			
TDS (Calculated)	mg/L	57.7			
Aluminum (Al)-Total	mg/L	<0.020			
Antimony (Sb)-Total	mg/L	<0.0010			
Arsenic (As)-Total	mg/L	<0.0010			
Barium (Ba)-Total	mg/L	0.0114			
Beryllium (Be)-Total	mg/L	<0.0010			
Bismuth (Bi)-Total	mg/L	<0.00050			
Boron (B)-Total	mg/L	<0.030			
Cadmium (Cd)-Total	mg/L	<0.00020			
Calcium (Ca)-Total	mg/L	14.6			
Cesium (Cs)-Total	mg/L	<0.00050			
Chromium (Cr)-Total	mg/L	<0.0020			
Cobalt (Co)-Total	mg/L	<0.00050			
Copper (Cu)-Total	mg/L	0.0025			
Iron (Fe)-Total	mg/L	<0.10			
Lead (Pb)-Total	mg/L	<0.0010			
Lithium (Li)-Total	mg/L	0.0027			
Magnesium (Mg)-Total	mg/L	1.68			
Manganese (Mn)-Total	mg/L	0.0116			
Molybdenum (Mo)-Total	mg/L	<0.00050			
Nickel (Ni)-Total	mg/L	<0.0020			
Phosphorus (P)-Total	mg/L	<0.50			7
Potassium (K)-Total	mg/L	0.99	9-Oct		

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MEL-R					
Parameters	Units	Results	Parameters	Units	Results
Ammonia as N	mg/L	<0.050	Rubidium (Rb)-Total	mg/L	0.00161
Mercury (Hg)-Total	mg/L	<0.000050	Selenium (Se)-Total	mg/L	<0.0050
Phosphorus (P)-Total	mg/L	<0.010	Silicon (Si)-Total	mg/L	0.48
Phosphorus (P)-Total Reactive	mg/L	<0.010	Silver (Ag)-Total	mg/L	<0.0010
Total Kjeldahl Nitrogen	mg/L	0.26	Sodium (Na)-Total	mg/L	9.73
Total Suspended Solids	mg/L	<5.0	Strontium (Sr)-Total	mg/L	0.0607
Alkalinity, Total (as CaCO ₃)	mg/L	29.2	Tellurium (Te)-Total	mg/L	<0.0010
Bicarbonate (HCO ₃)	mg/L	35.6	Thallium (Tl)-Total	mg/L	<0.0050
Carbonate (CO ₃)	mg/L	<0.60	Thorium (Th)-Total	mg/L	<0.0010
Hydroxide (OH)	mg/L	<0.40	Tin (Sn)-Total	mg/L	<0.00060
Calcium (Ca)-Dissolved	mg/L	12.8	Titanium (Ti)-Total	mg/L	<0.0010
Magnesium (Mg)-Dissolved	mg/L	2.35	Tungsten (W)-Total	mg/L	<0.0020
Potassium (K)-Dissolved	mg/L	1.62	Uranium (U)-Total	mg/L	<0.00050
Sodium (Na)-Dissolved	mg/L	11.1	Vanadium (V)-Total	mg/L	<0.0020
Chloride	mg/L	22.4	Zinc (Zn)-Total	mg/L	<0.020
Conductivity	umhos/cm	144	Zirconium (Zr)-Total	mg/L	<0.0010
Fluoride	mg/L	<0.10	Turbidity	NTU	0.65
Hardness (as CaCO ₃)	mg/L	42.9	pH	pH units	7.73
Nitrate-N	mg/L	<0.050	Field Water Temperature	oC	0.8
Nitrate and Nitrite as N	mg/L	<0.071			
Nitrite-N	mg/L	<0.050			
Sulfate	mg/L	8.36			
TDS (Calculated)	mg/L	75.1			
Aluminum (Al)-Total	mg/L	<0.020			
Antimony (Sb)-Total	mg/L	<0.0010			
Arsenic (As)-Total	mg/L	<0.0010			
Barium (Ba)-Total	mg/L	0.0113			
Beryllium (Be)-Total	mg/L	<0.0010			
Bismuth (Bi)-Total	mg/L	<0.00050			
Boron (B)-Total	mg/L	<0.030			
Cadmium (Cd)-Total	mg/L	<0.00020			
Calcium (Ca)-Total	mg/L	13.1			
Cesium (Cs)-Total	mg/L	<0.00050			
Chromium (Cr)-Total	mg/L	<0.0020			
Cobalt (Co)-Total	mg/L	<0.00050			
Copper (Cu)-Total	mg/L	<0.0020			
Iron (Fe)-Total	mg/L	<0.10			
Lead (Pb)-Total	mg/L	<0.0010			
Lithium (Li)-Total	mg/L	0.0024			
Magnesium (Mg)-Total	mg/L	2.45			
Manganese (Mn)-Total	mg/L	0.0028			
Molybdenum (Mo)-Total	mg/L	<0.00050			
Nickel (Ni)-Total	mg/L	<0.0020			
Phosphorus (P)-Total	mg/L	<0.50			8
Potassium (K)-Total	mg/L	1.56	9-Oct		

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CONTROL LAKE					
Parameters	Units	Results	Parameters	Units	Results
Ammonia as N	mg/L	<0.050	Rubidium (Rb)-Total	mg/L	0.00104
Mercury (Hg)-Total	mg/L	<0.000050	Selenium (Se)-Total	mg/L	<0.0050
Phosphorus (P)-Total	mg/L	<0.010	Silicon (Si)-Total	mg/L	<0.30
Phosphorus (P)-Total Reactive	mg/L	<0.010	Silver (Ag)-Total	mg/L	<0.0010
Total Kjeldahl Nitrogen	mg/L	0.37	Sodium (Na)-Total	mg/L	4.7
Total Suspended Solids	mg/L	<5.0	Strontium (Sr)-Total	mg/L	0.0293
Alkalinity, Total (as CaCO ₃)	mg/L	27.3	Tellurium (Te)-Total	mg/L	<0.0010
Bicarbonate (HCO ₃)	mg/L	33.3	Thallium (Tl)-Total	mg/L	<0.0050
Carbonate (CO ₃)	mg/L	<0.60	Thorium (Th)-Total	mg/L	<0.0010
Hydroxide (OH)	mg/L	<0.40	Tin (Sn)-Total	mg/L	<0.00060
Calcium (Ca)-Dissolved	mg/L	9.76	Titanium (Ti)-Total	mg/L	<0.0010
Magnesium (Mg)-Dissolved	mg/L	1.03	Tungsten (W)-Total	mg/L	<0.0020
Potassium (K)-Dissolved	mg/L	1.07	Uranium (U)-Total	mg/L	<0.00050
Sodium (Na)-Dissolved	mg/L	4.72	Vanadium (V)-Total	mg/L	<0.0020
Chloride	mg/L	8.74	Zinc (Zn)-Total	mg/L	<0.020
Conductivity	umhos/cm	86.3	Zirconium (Zr)-Total	mg/L	<0.0010
Fluoride	mg/L	<0.10	Turbidity	NTU	0.49
Hardness (as CaCO ₃)	mg/L	29.2	pH	pH units	7.71
Nitrate-N	mg/L	<0.050	Field Water Temperature	oC	1.9
Nitrate and Nitrite as N	mg/L	<0.071			
Nitrite-N	mg/L	<0.050			
Sulfate	mg/L	2.3			
TDS (Calculated)	mg/L	44.1			
Aluminum (Al)-Total	mg/L	<0.020			
Antimony (Sb)-Total	mg/L	<0.0010			
Arsenic (As)-Total	mg/L	<0.0010			
Barium (Ba)-Total	mg/L	0.0079			
Beryllium (Be)-Total	mg/L	<0.0010			
Bismuth (Bi)-Total	mg/L	<0.00050			
Boron (B)-Total	mg/L	<0.030			
Cadmium (Cd)-Total	mg/L	<0.00020			
Calcium (Ca)-Total	mg/L	9.83			
Cesium (Cs)-Total	mg/L	<0.00050			
Chromium (Cr)-Total	mg/L	<0.0020			
Cobalt (Co)-Total	mg/L	<0.00050			
Copper (Cu)-Total	mg/L	<0.0020			
Iron (Fe)-Total	mg/L	<0.10			
Lead (Pb)-Total	mg/L	<0.0010			
Lithium (Li)-Total	mg/L	<0.0020			
Magnesium (Mg)-Total	mg/L	1.14			
Manganese (Mn)-Total	mg/L	0.003			
Molybdenum (Mo)-Total	mg/L	<0.00050			
Nickel (Ni)-Total	mg/L	<0.0020			
Phosphorus (P)-Total	mg/L	<0.50			9
Potassium (K)-Total	mg/L	1	9-Oct		

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MEL-1					
Parameters	Units	Results	Parameters	Units	Results
Ammonia as N	mg/L	<0.050	Nickel (Ni)-Total	mg/L	<0.0020
Biochemical Oxygen Demand	mg/L	<6.0	Phosphorus (P)-Total	mg/L	<0.50
Fecal Coliforms	MPN/100mL	<3	Potassium (K)-Total	mg/L	0.83
Mercury (Hg)-Total	mg/L	<0.000050	Rubidium (Rb)-Total	mg/L	0.00117
Oil & Grease-(IR)	mg/L	<1.0	Selenium (Se)-Total	mg/L	<0.0050
Phosphorus (P)-Total	mg/L	<0.010	Silicon (Si)-Total	mg/L	<0.30
Phosphorus (P)-Total Reactive	mg/L	<0.010	Silver (Ag)-Total	mg/L	<0.0010
Total Kjeldahl Nitrogen	mg/L	0.24	Sodium (Na)-Total	mg/L	4.32
Total Suspended Solids	mg/L	<5.0	Strontium (Sr)-Total	mg/L	0.0324
Alkalinity, Total (as CaCO ₃)	mg/L	19	Tellurium (Te)-Total	mg/L	<0.0010
Bicarbonate (HCO ₃)	mg/L	23.2	Thallium (Tl)-Total	mg/L	<0.0050
Carbonate (CO ₃)	mg/L	<0.60	Thorium (Th)-Total	mg/L	<0.0010
Hydroxide (OH)	mg/L	<0.40	Tin (Sn)-Total	mg/L	<0.00060
Calcium (Ca)-Dissolved	mg/L	8.54	Titanium (Ti)-Total	mg/L	<0.0010
Magnesium (Mg)-Dissolved	mg/L	1.25	Tungsten (W)-Total	mg/L	<0.0020
Potassium (K)-Dissolved	mg/L	1.02	Uranium (U)-Total	mg/L	<0.00050
Sodium (Na)-Dissolved	mg/L	4.93	Vanadium (V)-Total	mg/L	<0.0020
Chloride	mg/L	8.6	Zinc (Zn)-Total	mg/L	<0.020
Conductivity	umhos/cm	76.2	Zirconium (Zr)-Total	mg/L	<0.0010
Fluoride	mg/L	<0.10	Turbidity	NTU	1.01
Hardness (as CaCO ₃)	mg/L	22.9	pH	pH units	7.55
Nitrate-N	mg/L	<0.050	Field Water Temperature	oC	0.9
Nitrate and Nitrite as N	mg/L	<0.071			
Nitrite-N	mg/L	<0.050			
Sulfate	mg/L	4.17			
TDS (Calculated)	mg/L	37.7			
Aluminum (Al)-Total	mg/L	<0.020			
Antimony (Sb)-Total	mg/L	<0.0010			
Arsenic (As)-Total	mg/L	<0.0010			
Barium (Ba)-Total	mg/L	0.00711			
Beryllium (Be)-Total	mg/L	<0.0010			
Bismuth (Bi)-Total	mg/L	<0.00050			
Boron (B)-Total	mg/L	<0.030			
Cadmium (Cd)-Total	mg/L	<0.00020			
Calcium (Ca)-Total	mg/L	7.21			
Cesium (Cs)-Total	mg/L	<0.00050			
Chromium (Cr)-Total	mg/L	<0.0020			
Cobalt (Co)-Total	mg/L	<0.00050			
Copper (Cu)-Total	mg/L	<0.0020			
Iron (Fe)-Total	mg/L	<0.10			
Lead (Pb)-Total	mg/L	<0.0010			
Lithium (Li)-Total	mg/L	<0.0020			
Magnesium (Mg)-Total	mg/L	1.19			
Manganese (Mn)-Total	mg/L	0.0058			10
Molybdenum (Mo)-Total	mg/L	<0.00050	11-Oct		

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MEL-4					
Parameters	Units	Results	Parameters	Units	Results
Ammonia as N	mg/L	<0.050	Nickel (Ni)-Total	mg/L	<0.0020
Biochemical Oxygen Demand	mg/L	<6.0	Phosphorus (P)-Total	mg/L	<0.50
Fecal Coliforms	MPN/100mL	93	Potassium (K)-Total	mg/L	0.8
Mercury (Hg)-Total	mg/L	<0.000050	Rubidium (Rb)-Total	mg/L	0.00124
Oil & Grease-(IR)	mg/L	<1.0	Selenium (Se)-Total	mg/L	<0.0050
Phosphorus (P)-Total	mg/L	0.034	Silicon (Si)-Total	mg/L	0.33
Phosphorus (P)-Total Reactive	mg/L	<0.010	Silver (Ag)-Total	mg/L	<0.0010
Total Kjeldahl Nitrogen	mg/L	0.33	Sodium (Na)-Total	mg/L	4.24
Total Suspended Solids	mg/L	12	Strontium (Sr)-Total	mg/L	0.0319
Alkalinity, Total (as CaCO ₃)	mg/L	19.5	Tellurium (Te)-Total	mg/L	<0.0010
Bicarbonate (HCO ₃)	mg/L	23.8	Thallium (Tl)-Total	mg/L	<0.0050
Carbonate (CO ₃)	mg/L	<0.60	Thorium (Th)-Total	mg/L	<0.0010
Hydroxide (OH)	mg/L	<0.40	Tin (Sn)-Total	mg/L	<0.00060
Calcium (Ca)-Dissolved	mg/L	7.54	Titanium (Ti)-Total	mg/L	0.0056
Magnesium (Mg)-Dissolved	mg/L	1.11	Tungsten (W)-Total	mg/L	<0.0020
Potassium (K)-Dissolved	mg/L	0.89	Uranium (U)-Total	mg/L	<0.00050
Sodium (Na)-Dissolved	mg/L	4.61	Vanadium (V)-Total	mg/L	<0.0020
Chloride	mg/L	8.71	Zinc (Zn)-Total	mg/L	<0.020
Conductivity	umhos/cm	75.4	Zirconium (Zr)-Total	mg/L	<0.0010
Fluoride	mg/L	<0.10	Turbidity	NTU	3.04
Hardness (as CaCO ₃)	mg/L	22.3	pH	pH units	7.59
Nitrate-N	mg/L	<0.050	Field Water Temperature	oC	0.8
Nitrate and Nitrite as N	mg/L	<0.071			
Nitrite-N	mg/L	<0.050			
Sulfate	mg/L	3.55			
TDS (Calculated)	mg/L	37.2			
Aluminum (Al)-Total	mg/L	0.0810			
Antimony (Sb)-Total	mg/L	<0.0010			
Arsenic (As)-Total	mg/L	<0.0010			
Barium (Ba)-Total	mg/L	0.00758			
Beryllium (Be)-Total	mg/L	<0.0010			
Bismuth (Bi)-Total	mg/L	<0.00050			
Boron (B)-Total	mg/L	<0.030			
Cadmium (Cd)-Total	mg/L	<0.00020			
Calcium (Ca)-Total	mg/L	7.02			
Cesium (Cs)-Total	mg/L	<0.00050			
Chromium (Cr)-Total	mg/L	<0.0020			
Cobalt (Co)-Total	mg/L	<0.00050			
Copper (Cu)-Total	mg/L	<0.0020			
Iron (Fe)-Total	mg/L	0.15			
Lead (Pb)-Total	mg/L	<0.0010			
Lithium (Li)-Total	mg/L	<0.0020			
Magnesium (Mg)-Total	mg/L	1.15			
Manganese (Mn)-Total	mg/L	0.0092			11
Molybdenum (Mo)-Total	mg/L	<0.00050	11-Oct		

MELIADINE GOLD PROJECT
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MEL-7					
Parameters	Units	Results	Parameters	Units	Results
Ammonia as N	mg/L	0.11	Nickel (Ni)-Total	mg/L	<0.0020
Biochemical Oxygen Demand	mg/L	<6.0	Phosphorus (P)-Total	mg/L	<0.50
Fecal Coliforms	MPN/100mL	230	Potassium (K)-Total	mg/L	0.88
Mercury (Hg)-Total	mg/L	<0.000050	Rubidium (Rb)-Total	mg/L	0.00136
Oil & Grease-(IR)	mg/L	<1.0	Selenium (Se)-Total	mg/L	<0.0050
Phosphorus (P)-Total	mg/L	0.028	Silicon (Si)-Total	mg/L	0.4
Phosphorus (P)-Total Reactive	mg/L	<0.010	Silver (Ag)-Total	mg/L	<0.0010
Total Kjeldahl Nitrogen	mg/L	0.36	Sodium (Na)-Total	mg/L	4.56
Total Suspended Solids	mg/L	29	Strontium (Sr)-Total	mg/L	0.0341
Alkalinity, Total (as CaCO ₃)	mg/L	19.7	Tellurium (Te)-Total	mg/L	<0.0010
Bicarbonate (HCO ₃)	mg/L	24.1	Thallium (Tl)-Total	mg/L	<0.0050
Carbonate (CO ₃)	mg/L	<0.60	Thorium (Th)-Total	mg/L	<0.0010
Hydroxide (OH)	mg/L	<0.40	Tin (Sn)-Total	mg/L	<0.00060
Calcium (Ca)-Dissolved	mg/L	7.9	Titanium (Ti)-Total	mg/L	0.0074
Magnesium (Mg)-Dissolved	mg/L	1.15	Tungsten (W)-Total	mg/L	<0.0020
Potassium (K)-Dissolved	mg/L	1	Uranium (U)-Total	mg/L	<0.00050
Sodium (Na)-Dissolved	mg/L	4.94	Vanadium (V)-Total	mg/L	<0.0020
Chloride	mg/L	8.8	Zinc (Zn)-Total	mg/L	<0.020
Conductivity	umhos/cm	77	Zirconium (Zr)-Total	mg/L	<0.0010
Fluoride	mg/L	<0.10	Turbidity	NTU	3.01
Hardness (as CaCO ₃)	mg/L	23.9	pH	pH units	7.59
Nitrate-N	mg/L	<0.050	Field Water Temperature	oC	0.9
Nitrate and Nitrite as N	mg/L	<0.071			
Nitrite-N	mg/L	<0.050			
Sulfate	mg/L	3.86			
TDS (Calculated)	mg/L	38.7			
Aluminum (Al)-Total	mg/L	0.1340			
Antimony (Sb)-Total	mg/L	<0.0010			
Arsenic (As)-Total	mg/L	<0.0010			
Barium (Ba)-Total	mg/L	0.00873			
Beryllium (Be)-Total	mg/L	<0.0010			
Bismuth (Bi)-Total	mg/L	<0.00050			
Boron (B)-Total	mg/L	<0.030			
Cadmium (Cd)-Total	mg/L	<0.00020			
Calcium (Ca)-Total	mg/L	7.53			
Cesium (Cs)-Total	mg/L	<0.00050			
Chromium (Cr)-Total	mg/L	<0.0020			
Cobalt (Co)-Total	mg/L	<0.00050			
Copper (Cu)-Total	mg/L	<0.0020			
Iron (Fe)-Total	mg/L	0.28			
Lead (Pb)-Total	mg/L	<0.0010			
Lithium (Li)-Total	mg/L	<0.0020			
Magnesium (Mg)-Total	mg/L	1.24			
Manganese (Mn)-Total	mg/L	0.021			12
Molybdenum (Mo)-Total	mg/L	<0.00050	11-Oct		

MELIADINE GOLD PROJECT
MONTHLY ENVIRONMENTAL REPORT

P1					
Parameters	Units	Results	Parameters	Units	Results
Ammonia as N	mg/L	<0.050	Rubidium (Rb)-Total	mg/L	0.00245
Mercury (Hg)-Total	mg/L	<0.000050	Selenium (Se)-Total	mg/L	<0.0050
Phosphorus (P)-Total	mg/L	<0.010	Silicon (Si)-Total	mg/L	1.24
Phosphorus (P)-Total Reactive	mg/L	<0.010	Silver (Ag)-Total	mg/L	<0.0010
Total Kjeldahl Nitrogen	mg/L	0.68	Sodium (Na)-Total	mg/L	17.2
Total Suspended Solids	mg/L	<5.0	Strontium (Sr)-Total	mg/L	0.418
Alkalinity, Total (as CaCO ₃)	mg/L	120	Tellurium (Te)-Total	mg/L	<0.0010
Bicarbonate (HCO ₃)	mg/L	146	Thallium (Tl)-Total	mg/L	<0.0050
Carbonate (CO ₃)	mg/L	<0.60	Thorium (Th)-Total	mg/L	<0.0010
Hydroxide (OH)	mg/L	<0.40	Tin (Sn)-Total	mg/L	<0.00060
Calcium (Ca)-Dissolved	mg/L	78.2	Titanium (Ti)-Total	mg/L	<0.0010
Magnesium (Mg)-Dissolved	mg/L	11.7	Tungsten (W)-Total	mg/L	<0.0020
Potassium (K)-Dissolved	mg/L	3.51	Uranium (U)-Total	mg/L	0.00059
Sodium (Na)-Dissolved	mg/L	19.4	Vanadium (V)-Total	mg/L	<0.0020
Chloride	mg/L	97.3	Zinc (Zn)-Total	mg/L	<0.020
Conductivity	umhos/cm	604	Zirconium (Zr)-Total	mg/L	<0.0010
Fluoride	mg/L	<0.10	Turbidity	NTU	1.26
Hardness (as CaCO ₃)	mg/L	236	pH	pH units	8.11
Nitrate-N	mg/L	0.072	Field Water Temperature	oC	0.3
Nitrate and Nitrite as N	mg/L	0.072			
Nitrite-N	mg/L	<0.050			
Sulfate	mg/L	41.8			
TDS (Calculated)	mg/L	319			
Aluminum (Al)-Total	mg/L	<0.020			
Antimony (Sb)-Total	mg/L	<0.0010			
Arsenic (As)-Total	mg/L	0.0027			
Barium (Ba)-Total	mg/L	0.0471			
Beryllium (Be)-Total	mg/L	<0.0010			
Bismuth (Bi)-Total	mg/L	<0.00050			
Boron (B)-Total	mg/L	<0.030			
Cadmium (Cd)-Total	mg/L	<0.00020			
Calcium (Ca)-Total	mg/L	75.4			
Cesium (Cs)-Total	mg/L	<0.00050			
Chromium (Cr)-Total	mg/L	<0.0020			
Cobalt (Co)-Total	mg/L	<0.00050			
Copper (Cu)-Total	mg/L	0.002			
Iron (Fe)-Total	mg/L	0.25			
Lead (Pb)-Total	mg/L	<0.0010			
Lithium (Li)-Total	mg/L	0.0052			
Magnesium (Mg)-Total	mg/L	11.7			
Manganese (Mn)-Total	mg/L	0.0301			
Molybdenum (Mo)-Total	mg/L	<0.00050			
Nickel (Ni)-Total	mg/L	<0.0020			
Phosphorus (P)-Total	mg/L	<0.50			13
Potassium (K)-Total	mg/L	3.53	9-Oct		

MELIADINE GOLD PROJECT
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A-13					
Parameters	Units	Results	Parameters	Units	Results
Ammonia as N	mg/L	<0.050	Rubidium (Rb)-Total	mg/L	0.00379
Mercury (Hg)-Total	mg/L	<0.000050	Selenium (Se)-Total	mg/L	<0.0050
Phosphorus (P)-Total	mg/L	<0.010	Silicon (Si)-Total	mg/L	2.32
Phosphorus (P)-Total Reactive	mg/L	<0.010	Silver (Ag)-Total	mg/L	<0.0010
Total Kjeldahl Nitrogen	mg/L	0.38	Sodium (Na)-Total	mg/L	19.6
Total Suspended Solids	mg/L	<5.0	Strontium (Sr)-Total	mg/L	1.12
Alkalinity, Total (as CaCO ₃)	mg/L	31.7	Tellurium (Te)-Total	mg/L	<0.0010
Bicarbonate (HCO ₃)	mg/L	38.7	Thallium (Tl)-Total	mg/L	<0.0050
Carbonate (CO ₃)	mg/L	<0.60	Thorium (Th)-Total	mg/L	<0.0010
Hydroxide (OH)	mg/L	<0.40	Tin (Sn)-Total	mg/L	<0.00060
Calcium (Ca)-Dissolved	mg/L	179	Titanium (Ti)-Total	mg/L	0.0014
Magnesium (Mg)-Dissolved	mg/L	21.6	Tungsten (W)-Total	mg/L	<0.0020
Potassium (K)-Dissolved	mg/L	4.9	Uranium (U)-Total	mg/L	<0.00050
Sodium (Na)-Dissolved	mg/L	23.5	Vanadium (V)-Total	mg/L	<0.0020
Chloride	mg/L	364	Zinc (Zn)-Total	mg/L	<0.020
Conductivity	umhos/cm	1220	Zirconium (Zr)-Total	mg/L	<0.0010
Fluoride	mg/L	<0.10	Turbidity	NTU	3.05
Hardness (as CaCO ₃)	mg/L	571	pH	pH units	7.71
Nitrate-N	mg/L	<0.050	Field Water Temperature	oC	0.3
Nitrate and Nitrite as N	mg/L	<0.071			
Nitrite-N	mg/L	<0.050			
Sulfate	mg/L	56			
TDS (Calculated)	mg/L	681			
Aluminum (Al)-Total	mg/L	<0.020			
Antimony (Sb)-Total	mg/L	<0.0010			
Arsenic (As)-Total	mg/L	0.0023			
Barium (Ba)-Total	mg/L	0.1490			
Beryllium (Be)-Total	mg/L	<0.0010			
Bismuth (Bi)-Total	mg/L	<0.00050			
Boron (B)-Total	mg/L	<0.030			
Cadmium (Cd)-Total	mg/L	<0.00020			
Calcium (Ca)-Total	mg/L	198			
Cesium (Cs)-Total	mg/L	<0.00050			
Chromium (Cr)-Total	mg/L	<0.0020			
Cobalt (Co)-Total	mg/L	<0.00050			
Copper (Cu)-Total	mg/L	<0.0020			
Iron (Fe)-Total	mg/L	0.48			
Lead (Pb)-Total	mg/L	<0.0010			
Lithium (Li)-Total	mg/L	0.0578			
Magnesium (Mg)-Total	mg/L	18.7			
Manganese (Mn)-Total	mg/L	0.078			
Molybdenum (Mo)-Total	mg/L	<0.00050			
Nickel (Ni)-Total	mg/L	<0.0020			
Phosphorus (P)-Total	mg/L	<0.50			14
Potassium (K)-Total	mg/L	5.29	9-Oct		

MELIADINE GOLD PROJECT
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A-15					
Parameters	Units	Results	Parameters	Units	Results
Ammonia as N	mg/L	<0.050	Rubidium (Rb)-Total	mg/L	0.00343
Mercury (Hg)-Total	mg/L	<0.000050	Selenium (Se)-Total	mg/L	<0.0050
Phosphorus (P)-Total	mg/L	0.011	Silicon (Si)-Total	mg/L	2.77
Phosphorus (P)-Total Reactive	mg/L	<0.010	Silver (Ag)-Total	mg/L	<0.0010
Total Kjeldahl Nitrogen	mg/L	0.45	Sodium (Na)-Total	mg/L	17.1
Total Suspended Solids	mg/L	<5.0	Strontium (Sr)-Total	mg/L	1.16
Alkalinity, Total (as CaCO ₃)	mg/L	30.8	Tellurium (Te)-Total	mg/L	<0.0010
Bicarbonate (HCO ₃)	mg/L	37.6	Thallium (Tl)-Total	mg/L	<0.0050
Carbonate (CO ₃)	mg/L	<0.60	Thorium (Th)-Total	mg/L	<0.0010
Hydroxide (OH)	mg/L	<0.40	Tin (Sn)-Total	mg/L	<0.00060
Calcium (Ca)-Dissolved	mg/L	188	Titanium (Ti)-Total	mg/L	0.0015
Magnesium (Mg)-Dissolved	mg/L	21.1	Tungsten (W)-Total	mg/L	<0.0020
Potassium (K)-Dissolved	mg/L	5.25	Uranium (U)-Total	mg/L	<0.00050
Sodium (Na)-Dissolved	mg/L	20.2	Vanadium (V)-Total	mg/L	<0.0020
Chloride	mg/L	362	Zinc (Zn)-Total	mg/L	<0.020
Conductivity	umhos/cm	1220	Zirconium (Zr)-Total	mg/L	<0.0010
Fluoride	mg/L	<0.10	Turbidity	NTU	3.13
Hardness (as CaCO ₃)	mg/L	487	pH	pH units	7.66
Nitrate-N	mg/L	<0.050	Field Water Temperature	oC	0.3
Nitrate and Nitrite as N	mg/L	<0.071			
Nitrite-N	mg/L	<0.050			
Sulfate	mg/L	54.2			
TDS (Calculated)	mg/L	640			
Aluminum (Al)-Total	mg/L	0.03			
Antimony (Sb)-Total	mg/L	<0.0010			
Arsenic (As)-Total	mg/L	0.0029			
Barium (Ba)-Total	mg/L	0.1520			
Beryllium (Be)-Total	mg/L	<0.0010			
Bismuth (Bi)-Total	mg/L	<0.00050			
Boron (B)-Total	mg/L	<0.030			
Cadmium (Cd)-Total	mg/L	<0.00020			
Calcium (Ca)-Total	mg/L	166			
Cesium (Cs)-Total	mg/L	<0.00050			
Chromium (Cr)-Total	mg/L	<0.0020			
Cobalt (Co)-Total	mg/L	<0.00050			
Copper (Cu)-Total	mg/L	<0.0020			
Iron (Fe)-Total	mg/L	0.86			
Lead (Pb)-Total	mg/L	<0.0010			
Lithium (Li)-Total	mg/L	0.052			
Magnesium (Mg)-Total	mg/L	17.8			
Manganese (Mn)-Total	mg/L	0.0949			
Molybdenum (Mo)-Total	mg/L	<0.00050			
Nickel (Ni)-Total	mg/L	<0.0020			
Phosphorus (P)-Total	mg/L	<0.50			15
Potassium (K)-Total	mg/L	4.55	9-Oct		

MELIADINE GOLD PROJECT
MONTHLY ENVIRONMENTAL REPORT

A-54					
Parameters	Units	Results	Parameters	Units	Results
Ammonia as N	mg/L	0.67	Rubidium (Rb)-Total	mg/L	0.00745
Mercury (Hg)-Total	mg/L	<0.000050	Selenium (Se)-Total	mg/L	<0.0050
Phosphorus (P)-Total	mg/L	<0.010	Silicon (Si)-Total	mg/L	0.48
Phosphorus (P)-Total Reactive	mg/L	<0.010	Silver (Ag)-Total	mg/L	<0.0010
Total Kjeldahl Nitrogen	mg/L	1.59	Sodium (Na)-Total	mg/L	80.7
Total Suspended Solids	mg/L	<5.0	Strontium (Sr)-Total	mg/L	1.14
Alkalinity, Total (as CaCO ₃)	mg/L	64.1	Tellurium (Te)-Total	mg/L	<0.0010
Bicarbonate (HCO ₃)	mg/L	78.1	Thallium (Tl)-Total	mg/L	<0.0050
Carbonate (CO ₃)	mg/L	<0.60	Thorium (Th)-Total	mg/L	<0.0010
Hydroxide (OH)	mg/L	<0.40	Tin (Sn)-Total	mg/L	<0.00060
Calcium (Ca)-Dissolved	mg/L	141	Titanium (Ti)-Total	mg/L	0.0014
Magnesium (Mg)-Dissolved	mg/L	27.2	Tungsten (W)-Total	mg/L	<0.0020
Potassium (K)-Dissolved	mg/L	11.9	Uranium (U)-Total	mg/L	0.00072
Sodium (Na)-Dissolved	mg/L	82.6	Vanadium (V)-Total	mg/L	<0.0020
Chloride	mg/L	394	Zinc (Zn)-Total	mg/L	<0.020
Conductivity	umhos/cm	1380	Zirconium (Zr)-Total	mg/L	<0.0010
Fluoride	mg/L	<0.50	Turbidity	NTU	0.74
Hardness (as CaCO ₃)	mg/L	432	pH	pH units	8.04
Nitrate-N	mg/L	2.92	Field Water Temperature	oC	0.4
Nitrate and Nitrite as N	mg/L	2.92			
Nitrite-N	mg/L	<0.25			
Sulfate	mg/L	84.1			
TDS (Calculated)	mg/L	778			
Aluminum (Al)-Total	mg/L	<0.020			
Antimony (Sb)-Total	mg/L	<0.0010			
Arsenic (As)-Total	mg/L	0.0034			
Barium (Ba)-Total	mg/L	0.0877			
Beryllium (Be)-Total	mg/L	<0.0010			
Bismuth (Bi)-Total	mg/L	<0.00050			
Boron (B)-Total	mg/L	<0.030			
Cadmium (Cd)-Total	mg/L	<0.00020			
Calcium (Ca)-Total	mg/L	133			
Cesium (Cs)-Total	mg/L	<0.00050			
Chromium (Cr)-Total	mg/L	<0.0020			
Cobalt (Co)-Total	mg/L	<0.00050			
Copper (Cu)-Total	mg/L	<0.0020			
Iron (Fe)-Total	mg/L	0.12			
Lead (Pb)-Total	mg/L	<0.0010			
Lithium (Li)-Total	mg/L	0.0324			
Magnesium (Mg)-Total	mg/L	24.2			
Manganese (Mn)-Total	mg/L	0.0084			
Molybdenum (Mo)-Total	mg/L	<0.00050			
Nickel (Ni)-Total	mg/L	<0.0020			
Phosphorus (P)-Total	mg/L	<0.50			16
Potassium (K)-Total	mg/L	11	9-Oct		