AGNICO EAGLE
MELIADINE

Meliadine Gold Project
NWB 2AM-MEL1631
June 2020 Monthly Report

Prepared for:
Nunavut Water Board

Prepared by:
Agnico Eagle Mines Limited – Meliadine Division

July 31st, 2020

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SECTION 1 • BACKGROUND

As required under Part I, Item 10 of Type A Water License 2AM-MEL1631, this report documents the water management and monitoring activities at the mine site and provides a summary of spills/ actions for the month of June 2020.

SECTION 2 • WATER MANAGEMENT

2.1 WATER USAGE

Table 2.1 details monthly water usage approved under Water License 2AM-MEL1631:

Table 2.1: Summary of Agnico's monthly water usage in June 2020

	Monthly Usage (m^3)
Camp and Mill (MEL-11)	35,693.33
Construction – Batch Plant (MEL-26 – A8)	0
Dust suppression	0
Total June	**35,639.33**
Year to date 2020	**186,561.11**

2.2 DEWATERING ACTIVITIES

Dewatering of the Lake H-19 and H-20 started August 17th 2019 and stopped October 5th 2019.

2.3 MELIADINE DISCHARGE

Discharge from the EWTP into Meliadine Lake via the Final Discharge Point (MEL-14) started June 5th 2020, a total of 352,954 m^3 was discharged throughout the month.

2.4 MELVIN BAY DISCHARGE

Discharge to sea via the Final Discharge Point (MEL-26) started August 1st 2019 and stopped October 11th 2019.

2.5 SEEPAGE AND RUNOFF FROM THE LANDFILL AND LANDFARM

The 2AM-MEL1631 landfill and landfarm were commissioned in November 2017. No seepage or runoff was observed in May 2020.

2.6 SEWAGE TREATMENT PLANT

In June 2020, 4,165 m^3 of treated wastewater was discharged into CP1. The majority of the sludge is disposed of in the Tailings Storage Facility as approved, the sludge can also be utilized as nutrient in the site landfarm or shipped to the south with Agnico Eagle's hazmat if needed.

2.7 CONTAINMENTS

Discharged from the Itivia fuel containment facility (Station Mel-25) started June 27th approximately 964 m^3 was discharged through the month.

2.8 MONITORING ANALYTICAL DATA

In June 2020, samples related to the water Licence were taken. See below the analytical results from these monitoring stations. No exceedances occurred in June 2020.

MEL-11	Sample Date	6/1/2020
Parameter	**Unit**	
Field Measured		
pH	pH units	6.77
Conductivity	uS/cm	137.6
Temperature	°C	7.3
Dissolved oxygen	mg/L	11.11
Dissolved oxygen	%	96.7
Conventional Parameters		
pH	pH units	7.33
Specific conductivity	umhos/cm	130
Hardness, as CaCO3 (D)	mg/L	35.2
Hardness, as CaCO3 (T)	mg/L	37.5
Total alkalinity, as CaCO3	mg/L	29
Total dissolved solids	mg/L	35
Total suspended solids	mg/L	< 1
Total organic carbon	mg/L	3.6
Dissolved organic carbon	mg/L	3.9
Turbidity	NTU	0.2
Major Ions		
Bicarbonate, as CaCO3	mg/L	28
Calcium	mg/L	11
Carbonate, as CaCO3	mg/L	< 1.0
Chloride	mg/L	17
Cyanide	mg/L	< 0.0050
Magnesium	mg/L	1.86
Potassium	mg/L	1.34
Sodium	mg/L	7.3

Sulphate	mg/L	6.4
Silica	mg/L	0.72
Cyanide (free)	mg/L	< 0.0010
Cyanide (WAD)	mg/L	< 0.0010
Nutrients and Chlorophyll a		
Nitrate	mg/L	< 0.10
Nitrite	mg/L	< 0.010
Nitrate + nitrite	mg/L	< 0.10
Total ammonia	mg/L	0.16
Total Kjeldahl nitrogen	mg/L	0.21
Total phosphorus	mg/L	< 0.020
Orthophosphate	mg/L	< 0.010
Total Metals		
Aluminum	mg/L	0.0039
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.00043
Barium	mg/L	0.0145
Beryllium	mg/L	< 0.00010
Bismuth	mg/L	< 0.0010
Boron	mg/L	< 0.05
Cadmium	mg/L	< 0.000010
Calcium	mg/L	11.7
Chromium	mg/L	< 0.0010
Cobalt	mg/L	< 0.00020
Copper	mg/L	0.00134
Iron	mg/L	0.032
Lead	mg/L	< 0.00020
Lithium	mg/L	< 0.0020
Magnesium	mg/L	2.04
Manganese	mg/L	0.0071
Mercury	mg/L	< 0.00001

Molybdenum	mg/L	< 0.0010
Nickel	mg/L	0.001
Potassium	mg/L	1.47
Selenium	mg/L	< 0.00010
Silicon	mg/L	0.342
Silver	mg/L	< 0.000020
Sodium	mg/L	7.89
Strontium	mg/L	0.0629
Sulphur	mg/L	< 3
Thallium	mg/L	< 0.000010
Tin	mg/L	< 0.0050
Titanium	mg/L	< 0.0050
Uranium	mg/L	< 0.00010
Vanadium	mg/L	< 0.0050
Zinc	mg/L	< 0.0050
Zirconium	mg/L	< 0.00010
Dissolved Metals		
Aluminum	mg/L	< 0.0030
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.00039
Barium	mg/L	0.0127
Beryllium	mg/L	< 0.00010
Bismuth	mg/L	< 0.0010
Boron	mg/L	< 0.05
Cadmium	mg/L	< 0.000010
Chromium	mg/L	< 0.0010
Cobalt	mg/L	< 0.00020
Copper	mg/L	0.00097
Iron	mg/L	0.0095
Lead	mg/L	< 0.00020
Lithium	mg/L	< 0.0020

Manganese	mg/L	< 0.0010
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	< 0.0010
Selenium	mg/L	< 0.00010
Silicon	mg/L	0.302
Silver	mg/L	< 0.000020
Strontium	mg/L	0.0584
Sulphur	mg/L	< 3.0
Thallium	mg/L	< 0.000010
Tin	mg/L	< 0.0050
Titanium	mg/L	< 0.0050
Uranium	mg/L	< 0.00010
Vanadium	mg/L	< 0.0050
Zinc	mg/L	< 0.0050
Zirconium	mg/L	< 0.00010
Volatile Organics		
Benzene	mg/L	< 0.00020
Ethylbenzene	mg/L	< 0.00020
Toluene	mg/L	< 0.00020
Xylenes	mg/L	< 0.00040
m,p-Xylenes	mg/L	< 0.00040
o-Xylene	mg/L	< 0.00020
F1 (C6-C10)-BTEX	mg/L	< 0.025
F1 (C6-C10)	mg/L	< 0.025
F2 (C10-C16)	mg/L	< 0.1
F3 (C16-C34)	mg/L	< 0.2
F4 (C34-C50)	mg/L	< 0.2
Reached baseline at C50	ug/L	YES

MEL-12	Sample Date	6/8/2020	6/15/2020	6/23/2020
Parameter	**Unit**			
Field Measured				
pH	pH units	7.07	7.04	7.39
Conductivity	uS/cm	10076	7338	1852
Temperature	°C	0.7	8.9	5.4
Dissolved oxygen	mg/L	8.5	-	-
Dissolved oxygen	%	62	69.2	93.3
Conventional Parameters				
pH	pH units	7.46	7.58	7.46
Specific conductivity	umhos/cm	9600	7100	2800
Hardness, as CaCO3 (D)	mg/L	2360	1630	612
Hardness, as CaCO3 (T)	mg/L	2350	1680	639
Total alkalinity, as CaCO3	mg/L	220	160	65
Total dissolved solids	mg/L	6160	4610	1660
Total suspended solids	mg/L	8	9	5
Total organic carbon	mg/L	27	19	8.9
Turbidity	NTU	1.7	5.3	2.5
Major Ions				
Calcium	mg/L	669	456	176
Chloride	mg/L	3000	2000	740
Cyanide	mg/L	< 0.0050	< 0.0050	< 0.0050
Fluoride	mg/L	0.11	< 0.10	< 0.10
Magnesium	mg/L	167	118	42
Potassium	mg/L	73.5	53.5	19.4
Sodium	mg/L	1070	773	275
Sulphate	mg/L	430	350	130
Nutrients and Chlorophyll a				
Nitrate	mg/L	59.8	43	16.3
Nitrite	mg/L	0.082	0.071	0.068

Nitrate + nitrite	mg/L	59.9	43.1	16.3
Total ammonia	mg/L	20	14	5.6
Total phosphorus	mg/L	0.14	0.2	0.13
Orthophosphate	mg/L	0.065	0.12	0.1
Total Metals				
Aluminum	mg/L	0.511	0.458	0.401
Antimony	mg/L	< 0.0025	< 0.0025	0.0034
Arsenic	mg/L	0.00906	0.0232	0.0195
Barium	mg/L	0.342	0.251	0.0911
Beryllium	mg/L	< 0.00050	< 0.00050	< 0.00020
Bismuth	mg/L	< 0.0050	< 0.0050	< 0.0020
Boron	mg/L	1.02	0.776	0.328
Cadmium	mg/L	0.000172	0.000134	0.000047
Calcium	mg/L	663	479	182
Chromium	mg/L	< 0.0050	< 0.0050	< 0.0020
Cobalt	mg/L	0.0061	0.0045	0.00195
Copper	mg/L	0.004	0.0042	0.0035
Iron	mg/L	0.106	0.677	0.27
Lead	mg/L	< 0.0010	0.0018	0.0013
Lithium	mg/L	0.293	0.227	0.0853
Magnesium	mg/L	169	118	45
Manganese	mg/L	2.84	2.04	0.714
Mercury	mg/L	< 0.00010	< 0.00001	< 0.00010
Molybdenum	mg/L	0.0063	< 0.0050	0.0024
Nickel	mg/L	0.02	0.0153	0.0061
Potassium	mg/L	74.6	54.8	19.9
Selenium	mg/L	0.00072	0.00061	0.00027
Silicon	mg/L	3.42	2.94	1.19
Silver	mg/L	< 0.00010	< 0.00010	< 0.000040
Sodium	mg/L	1090	787	284
Strontium	mg/L	12.2	9.1	3.32

Sulphur	mg/L	172	129	49.8
Thallium	mg/L	0.000103	0.000078	0.00003
Tin	mg/L	< 0.025	< 0.025	< 0.01
Titanium	mg/L	< 0.025	< 0.025	< 0.01
Uranium	mg/L	0.00478	0.00332	0.00136
Vanadium	mg/L	< 0.025	< 0.025	< 0.01
Zinc	mg/L	0.05	0.077	0.017
Zirconium	mg/L	< 0.00050	< 0.00050	< 0.00020
Dissolved Metals				
Aluminum	mg/L	0.061	0.038	0.0216
Antimony	mg/L	< 0.0025	< 0.0025	< 0.00050
Arsenic	mg/L	0.00784	0.017	0.0147
Barium	mg/L	0.329	0.251	0.0895
Beryllium	mg/L	< 0.00050	< 0.00050	< 0.00010
Bismuth	mg/L	< 0.0050	< 0.0050	< 0.0010
Boron	mg/L	0.995	0.776	0.272
Cadmium	mg/L	0.000161	0.000115	0.000047
Chromium	mg/L	< 0.0050	< 0.0050	< 0.0010
Cobalt	mg/L	0.0061	0.0042	0.0016
Copper	mg/L	0.0036	0.0032	0.00202
Iron	mg/L	0.066	0.167	0.0317
Lead	mg/L	< 0.0010	< 0.0010	< 0.00020
Lithium	mg/L	0.296	0.224	0.083
Manganese	mg/L	2.82	1.97	0.674
Mercury	mg/L	< 0.00010	< 0.00001	< 0.00010
Molybdenum	mg/L	0.0062	< 0.0050	0.0023
Nickel	mg/L	0.0197	0.0132	0.0053
Selenium	mg/L	0.00073	0.00054	0.00023
Silicon	mg/L	3.39	2.31	1.02
Silver	mg/L	< 0.00010	< 0.00010	< 0.000020
Strontium	mg/L	11.9	8.65	3.43

Sulphur	mg/L	170	119	46
Thallium	mg/L	0.000099	0.00007	0.000029
Tin	mg/L	< 0.025	< 0.025	< 0.0050
Titanium	mg/L	< 0.025	< 0.025	< 0.0050
Uranium	mg/L	0.00467	0.00316	0.00136
Vanadium	mg/L	< 0.025	< 0.025	< 0.0050
Zinc	mg/L	0.051	0.057	0.0141
Zirconium	mg/L	< 0.00050	< 0.00050	0.00011

MEL-14	**Sample Date**	***Monthly Average***	6/5/2020	6/7/2020	6/14/2020	6/15/2020	6/21/2020	6/28/2020
Parameter	**Unit**							
Field Measured								
pH	pH units	***7.03***	7.05	7.29	7.08	6.88	7.01	6.87
Conductivity	uS/cm	***4933.83***	4825	4718	5176	4919	5005	4960
Temperature	°C	***6.43***	5.6	6.5	4.7	5.7	8.7	7.4
Dissolved oxygen	mg/L	***11.78***	12.07	11.65	11.81	-	-	11.57
Dissolved oxygen	%	***97.55***	97.8	96.4	93.6	99.6	99.9	98
Conventional Parameters								
pH	pH units	***7.54***	7.52	7.58	7.66	7.66	7.41	7.43
Specific conductivity	umhos/cm	***4800.00***	4700	4600	5100	4900	4800	4700
Hardness, as CaCO3 (D)	mg/L	***1073.33***	1040	1020	1140	1050	1070	1120
Hardness, as CaCO3 (T)	mg/L	***1055.00***	1050	1050	1040	1020	1080	1090
Total alkalinity, as CaCO3	mg/L	***109.50***	110	110	120	110	110	97
Total dissolved solids, calculated	mg/L	***2600.00***	2600	2600	-	-	-	-
Total dissolved solids	mg/L	***2843.33***	2570	2600	3090	3100	2790	2910
Total suspended solids	mg/L	***6.33***	5	6	8	6	6	7
Total organic carbon	mg/L	***13.50***	14	14	14	14	13	12

Dissolved organic carbon	mg/L	***12.33***	13	12	13	13	12	11
Turbidity	NTU	***1.58***	1.6	1.7	1.7	1.6	1.2	1.7
Dissolved Oxygen	mg/L	***9.76***	9.17	9.99	9.55	10.2	10	9.66
Bicarbonate, as CaCO3	mg/L	***109.33***	110	110	120	110	110	96
Calcium	mg/L	***307.17***	297	293	327	302	303	321
Carbonate, as CaCO3	mg/L	***0.50***	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloride	mg/L	***1283.33***	1300	1300	1300	1300	1300	1200
Cyanide	mg/L	***0.009***	0.0068	0.007	0.011	0.0095	0.012	0.0055
Fluoride	mg/L	***0.050***	< 0.10	< 0.10	-	-	-	-
Magnesium	mg/L	***74.67***	71.8	70.5	78.8	72.5	76.8	77.6
Potassium	mg/L	***34.77***	34	34	36.7	33.9	35.3	34.7
Sodium	mg/L	***491.50***	480	474	510	470	509	506
Sulphate	mg/L	***233.33***	240	230	230	220	250	230
Silica	mg/L	***5.85***	5.3	8.3	6.1	6.8	4.8	3.8
Cyanide (free)	mg/L	***0.0266***	0.033	0.045	0.032	0.029	0.017	0.0033
Cyanide (WAD)	mg/L	***0.0048***	0.0051	0.0053	0.0046	0.006	0.0049	0.0026
Nitrate	mg/L	***27.483***	26.9	26.5	28.1	28.1	29.2	26.1
Nitrite	mg/L	***0.090***	0.083	0.084	0.091	0.083	0.111	0.088
Nitrate + nitrite	mg/L	***27.567***	27	26.6	28.1	28.2	29.3	26.2
Total ammonia	mg/L	***10.567***	11	10	11	10	12	9.4
Total Kjeldahl nitrogen	mg/L	***11.733***	11	9.4	14	11	13	12
Total phosphorus	mg/L	***0.048***	0.072	0.035	0.02	0.062	0.057	0.039
Orthophosphate	mg/L	***0.080***	< 0.010	< 0.010	0.016	0.023	0.012	< 0.010
Biochemical Oxygen Demand, 5 Day	mg/L	***1.833***	2	3	2	2	< 2	< 2
Aluminum	mg/L	***0.6225***	0.448	0.632	0.643	0.561	0.661	0.79
Antimony	mg/L	***0.0012***	< 0.0025	< 0.0025	< 0.0010	< 0.0010	< 0.0025	< 0.0050
Arsenic	mg/L	***0.0473***	0.0629	0.0723	0.07	0.0584	0.0156	0.0047
Barium	mg/L	***0.1530***	0.151	0.155	0.151	0.153	0.155	0.153

Beryllium	mg/L	***0.00024***	< 0.00050	< 0.00050	< 0.00020	< 0.00020	< 0.00050	< 0.0010
Bismuth	mg/L	***0.00242***	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0050	< 0.01
Boron	mg/L	***0.4418***	0.456	0.499	0.47	0.453	0.523	< 0.5
Cadmium	mg/L	***0.000082***	0.00008	0.000101	0.000078	0.000085	0.000095	< 0.00010
Calcium	mg/L	***301.1667***	299	299	300	295	303	311
Chromium	mg/L	***0.00242***	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0050	< 0.01
Cobalt	mg/L	***0.0031***	0.003	0.0031	0.00331	0.00313	0.0033	0.0029
Copper	mg/L	***0.0031***	0.0031	0.0031	0.0032	0.0031	0.0028	< 0.0050
Iron	mg/L	***0.1572***	0.25	0.213	0.154	0.163	0.113	< 0.1
Lead	mg/L	***0.00064***	< 0.0010	< 0.0010	0.0007	0.00061	< 0.0010	< 0.0020
Lithium	mg/L	***0.1460***	0.142	0.139	0.155	0.146	0.15	0.144
Magnesium	mg/L	***73.8333***	72.4	74.4	71.4	70.2	78.7	75.9
Manganese	mg/L	***1.3183***	1.33	1.33	1.3	1.28	1.37	1.3
Mercury	mg/L	***0.000020***	< 0.00010	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00010
Molybdenum	mg/L	***0.0036***	< 0.0050	< 0.0050	0.0045	0.0043	< 0.0050	< 0.01
Nickel	mg/L	***0.0086***	0.0088	0.0087	0.0096	0.0094	0.0103	< 0.01
Potassium	mg/L	***34.3833***	34.5	34.1	33.6	33.9	36	34.2
Selenium	mg/L	***0.00064***	0.00063	0.00074	0.00066	0.0006	0.00069	< 0.0010
Silicon	mg/L	***1.7533***	1.74	1.94	1.82	1.81	1.67	1.54
Silver	mg/L	***0.000048***	< 0.00010	< 0.00010	< 0.000040	< 0.000040	< 0.00010	< 0.00020
Sodium	mg/L	***481.5000***	479	462	474	470	512	492
Strontium	mg/L	***5.5217***	5.22	5.6	5.8	5.7	5.45	5.36
Sulphur	mg/L	***84.6833***	82.9	84.3	83.7	82.5	97.3	77.4
Thallium	mg/L	***0.000047***	< 0.000050	0.000052	0.000047	0.000049	0.000056	< 0.00010
Tin	mg/L	***0.0121***	< 0.025	< 0.025	< 0.01	< 0.01	< 0.025	< 0.05
Titanium	mg/L	***0.0121***	< 0.025	< 0.025	< 0.01	< 0.01	< 0.025	< 0.05
Uranium	mg/L	***0.0019***	0.00185	0.00189	0.00211	0.00212	0.00189	0.0014
Vanadium	mg/L	***0.0121***	< 0.025	< 0.025	< 0.01	< 0.01	< 0.025	< 0.05

Zinc	mg/L	***0.0178***	< 0.025	< 0.025	0.021	0.023	< 0.025	< 0.05
Zirconium	mg/L	***0.00024***	< 0.00050	< 0.00050	< 0.00020	< 0.00020	< 0.00050	< 0.0010
Aluminum	mg/L	***0.1463***	0.13	0.21	0.174	0.136	0.113	0.115
Antimony	mg/L	***0.0012***	< 0.0010	< 0.0010	< 0.0025	< 0.0025	< 0.0025	< 0.0050
Arsenic	mg/L	***0.0394***	0.0541	0.0626	0.0611	0.0477	0.00803	0.0026
Barium	mg/L	***0.1545***	0.154	0.149	0.164	0.154	0.149	0.157
Beryllium	mg/L	***0.000242***	< 0.00020	< 0.00020	< 0.00050	< 0.00050	< 0.00050	< 0.0010
Bismuth	mg/L	***0.002417***	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.01
Boron	mg/L	***0.4613***	0.472	0.462	0.554	0.498	0.532	< 0.5
Cadmium	mg/L	***0.000079***	0.000081	0.000079	0.000097	0.000086	0.000081	< 0.00010
Chromium	mg/L	***0.002417***	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.01
Cobalt	mg/L	***0.0031***	0.00311	0.00301	0.0035	0.0031	0.0033	0.0028
Copper	mg/L	***0.0025***	0.00287	0.00279	0.0031	0.0029	0.0026	< 0.0020
Iron	mg/L	***0.1077***	0.164	0.137	0.097	0.115	0.076	0.057
Lead	mg/L	***0.00048***	< 0.00040	< 0.00040	< 0.0010	< 0.0010	< 0.0010	< 0.0020
Lithium	mg/L	***0.1515***	0.138	0.132	0.179	0.159	0.148	0.153
Manganese	mg/L	***1.3750***	1.35	1.3	1.5	1.36	1.39	1.35
Mercury	mg/L	***0.000020***	< 0.00010	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00010
Molybdenum	mg/L	***0.0036***	0.0046	0.0044	< 0.0050	< 0.0050	< 0.0050	< 0.01
Nickel	mg/L	***0.0088***	0.0088	0.0084	0.0107	0.0096	0.01	< 0.01
Selenium	mg/L	***0.0006***	0.00058	0.00065	0.00071	0.00052	0.00057	< 0.0010
Silicon	mg/L	***1.7117***	1.71	1.68	1.9	1.77	1.66	1.55
Silver	mg/L	***0.00005***	< 0.000040	< 0.000040	< 0.00010	< 0.00010	< 0.00010	< 0.00020
Strontium	mg/L	***5.5550***	5.32	5.37	6.08	5.63	5.48	5.45
Sulphur	mg/L	***84.6167***	80.4	82.3	88	84	89	84
Thallium	mg/L	***0.000047***	0.00004	0.000047	0.000058	< 0.000050	0.000061	< 0.00010

Tin	mg/L	***0.0121***	< 0.01	< 0.01	< 0.025	< 0.025	< 0.025	< 0.05
Titanium	mg/L	***0.0121***	< 0.01	< 0.01	< 0.025	< 0.025	< 0.025	< 0.05
Uranium	mg/L	***0.0018***	0.00197	0.00181	0.00211	0.00202	0.00176	0.0013
Vanadium	mg/L	***0.0121***	< 0.01	< 0.01	< 0.025	< 0.025	< 0.025	< 0.05
Zinc	mg/L	***0.0168***	0.019	0.019	< 0.025	< 0.025	< 0.025	< 0.05
Zirconium	mg/L	***0.00024***	< 0.00020	< 0.00020	< 0.00050	< 0.00050	< 0.00050	< 0.0010
Benzene	mg/L		< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Ethylbenzene	mg/L		< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Toluene	mg/L		0.00023	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Xylenes	mg/L		< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040
m,p-Xylenes	mg/L		< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040
o-Xylene	mg/L		< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
F1 (C6-C10)-BTEX	mg/L		< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
F1 (C6-C10)	mg/L		< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
F2 (C10-C16)	mg/L		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
F3 (C16-C34)	mg/L		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
F4 (C34-C50)	mg/L		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Reached baseline at C50			YES	YES	YES	YES	YES	YES
Daphnia 48 h static acute test - LC50	%		-	> 100	> 100	-	> 100	-
Daphnia 48 h Static Acute Test - EC50	%		-	> 100	> 100	-	> 100	-
LC50 (96h) - Rainbow Trout	%		-	> 100	> 100	-	> 100	-
Radium-226	Bq/l	***0.1965***	0.014	0.016	0.013	0.017	0.019	1.1

MEL-20	Sample Date	6/8/2020	6/15/2020	6/23/2020
Parameter	**Unit**			
Field Measured				
pH	pH units	7.63	7.43	7.2
Conductivity	uS/cm	552.2	948	461.7
Temperature	°C	1.7	4.5	4.2
Dissolved oxygen	mg/L	12.29	9.69	-
Dissolved oxygen	%	88.3	76.6	91.2
Conventional Parameters				
pH	pH units	7.46	7.5	7.46
Hardness, as CaCO3 (D)	mg/L	108	178	97.3
Hardness, as CaCO3 (T)	mg/L	113	170	93.9
Total alkalinity, as CaCO3	mg/L	50	55	31
Total dissolved solids	mg/L	270	475	170
Total suspended solids	mg/L	20	16	7
Turbidity	NTU	25	17	6.3
Major Ions				
Calcium	mg/L	34.1	50.7	27.6
Chloride	mg/L	78	130	76
Cyanide	mg/L	0.021	0.02	0.0088
Fluoride	mg/L	< 0.10	< 0.10	< 0.10
Magnesium	mg/L	5.5	12.5	6.91
Potassium	mg/L	5.5	7.73	4.08
Sodium	mg/L	53.7	96.7	50
Sulphate	mg/L	78	120	52
Nutrients and Chlorophyll a				
Nitrate	mg/L	2.93	4.39	2.1
Nitrite	mg/L	0.039	0.044	0.027
Nitrate + nitrite	mg/L	2.97	4.44	2.13
Total ammonia	mg/L	3	4.4	2.5

Total phosphorus	mg/L	0.049	0.082	0.028
Orthophosphate	mg/L	0.12	0.087	0.036
Total Metals				
Aluminum	mg/L	0.579	0.396	0.466
Antimony	mg/L	0.001	0.0008	0.00276
Arsenic	mg/L	0.5	0.28	0.148
Barium	mg/L	0.0295	0.0318	0.0193
Beryllium	mg/L	< 0.00010	< 0.00010	< 0.00010
Bismuth	mg/L	< 0.0010	< 0.0010	< 0.0010
Boron	mg/L	0.053	0.108	0.084
Cadmium	mg/L	0.000021	0.000019	0.000013
Calcium	mg/L	35.6	47.3	26.7
Chromium	mg/L	0.0013	0.001	< 0.0010
Cobalt	mg/L	0.0044	0.00398	0.00216
Copper	mg/L	0.0185	0.012	0.00733
Iron	mg/L	1.33	0.818	0.663
Lead	mg/L	0.0156	0.00883	0.00839
Lithium	mg/L	< 0.0020	0.0034	< 0.0020
Magnesium	mg/L	5.94	12.5	6.61
Manganese	mg/L	0.319	0.208	0.114
Mercury	mg/L	< 0.00010	< 0.00001	< 0.00010
Molybdenum	mg/L	0.0053	0.0047	0.0022
Nickel	mg/L	0.0067	0.011	0.0071
Potassium	mg/L	5.91	7.57	3.75
Selenium	mg/L	0.00261	0.00169	0.0008
Silicon	mg/L	2.05	1.54	0.892
Silver	mg/L	0.000027	< 0.000020	< 0.000020
Sodium	mg/L	56.7	89.9	45
Strontium	mg/L	0.189	0.32	0.171
Sulphur	mg/L	32	42.6	22
Thallium	mg/L	0.000015	0.000015	0.000012

Tin	mg/L	< 0.0050	< 0.0050	< 0.0050
Titanium	mg/L	0.0267	0.0185	0.0152
Uranium	mg/L	0.00099	0.00225	0.00133
Vanadium	mg/L	< 0.0050	< 0.0050	< 0.0050
Zinc	mg/L	0.0056	< 0.0050	< 0.0050
Zirconium	mg/L	0.00081	0.00072	0.0003
Dissolved Metals				
Aluminum	mg/L	0.0134	0.0109	0.0112
Antimony	mg/L	0.00096	0.0008	< 0.00050
Arsenic	mg/L	0.388	0.253	0.125
Barium	mg/L	0.023	0.028	0.0168
Beryllium	mg/L	< 0.00010	< 0.00010	< 0.00010
Bismuth	mg/L	< 0.0010	< 0.0010	< 0.0010
Boron	mg/L	< 0.05	0.109	0.06
Cadmium	mg/L	< 0.000010	0.000013	< 0.000010
Chromium	mg/L	< 0.0010	< 0.0010	< 0.0010
Cobalt	mg/L	0.00375	0.00379	0.00192
Copper	mg/L	0.0146	0.0105	0.00576
Iron	mg/L	0.0421	0.0264	0.017
Lead	mg/L	0.00079	0.00049	0.00047
Lithium	mg/L	< 0.0020	0.0027	< 0.0020
Manganese	mg/L	0.293	0.209	0.127
Mercury	mg/L	< 0.00010	< 0.00001	< 0.00010
Molybdenum	mg/L	0.0051	0.0048	0.0024
Nickel	mg/L	0.0047	0.0099	0.0064
Selenium	mg/L	0.00246	0.00184	0.00086
Silicon	mg/L	0.546	0.832	0.417
Silver	mg/L	< 0.000020	< 0.000020	< 0.000020
Strontium	mg/L	0.182	0.315	0.178
Sulphur	mg/L	30.3	42.5	22.5
Thallium	mg/L	< 0.000010	< 0.000010	< 0.000010

Tin	mg/L	< 0.0050	< 0.0050	< 0.0050
Titanium	mg/L	< 0.0050	< 0.0050	< 0.0050
Uranium	mg/L	0.00092	0.00225	0.00136
Vanadium	mg/L	< 0.0050	< 0.0050	< 0.0050
Zinc	mg/L	< 0.0050	< 0.0050	< 0.0050
Zirconium	mg/L	< 0.00010	< 0.00010	< 0.00010

MEL-21	**Sample Date**	6/8/2020	6/15/2020	6/23/2020
Parameter	**Unit**			
Field Measured				
pH	pH units	7.73	7.83	7.18
Conductivity	uS/cm	689.7	752	890
Temperature	°C	0.8	3.6	8.2
Dissolved oxygen	mg/L	12.52	-	-
Dissolved oxygen	%	87.8	86	98.4
Conventional Parameters				
pH	pH units	7.63	7.65	7.69
Hardness, as CaCO3 (D)	mg/L	218	228	259
Hardness, as CaCO3 (T)	mg/L	216	199	273
Total alkalinity, as CaCO3	mg/L	55	58	53
Total dissolved solids	mg/L	425	465	540
Total suspended solids	mg/L	13	23	10
Turbidity	NTU	11	15	4.2
Major Ions				
Calcium	mg/L	74	73.9	84.1
Chloride	mg/L	130	120	180
Cyanide	mg/L	0.014	0.0057	0.0066
Fluoride	mg/L	< 0.10	< 0.10	< 0.10
Magnesium	mg/L	7.99	10.6	11.8
Potassium	mg/L	6.19	6.12	6.78

Sodium	mg/L	32.1	42.6	50.1
Sulphate	mg/L	46	53	60
Nutrients and Chlorophyll a				
Nitrate	mg/L	0.67	0.47	0.64
Nitrite	mg/L	0.021	0.014	0.016
Nitrate + nitrite	mg/L	0.69	0.49	0.66
Total ammonia	mg/L	0.78	0.53	0.52
Total phosphorus	mg/L	0.021	0.034	0.028
Orthophosphate	mg/L	0.053	0.022	0.029
Total Metals				
Aluminum	mg/L	0.0211	0.527	0.592
Antimony	mg/L	0.00134	0.00138	0.00566
Arsenic	mg/L	0.239	0.173	0.202
Barium	mg/L	0.0303	0.0335	0.0477
Beryllium	mg/L	< 0.00010	< 0.00010	< 0.00010
Bismuth	mg/L	< 0.0010	< 0.0010	< 0.0010
Boron	mg/L	0.109	0.126	0.2
Cadmium	mg/L	0.000013	0.000023	0.000031
Calcium	mg/L	73.3	63.2	88.6
Chromium	mg/L	< 0.0010	0.0013	< 0.0010
Cobalt	mg/L	0.00226	0.00226	0.00294
Copper	mg/L	0.0097	0.00706	0.009
Iron	mg/L	0.014	1.34	0.899
Lead	mg/L	0.00038	0.0156	0.0175
Lithium	mg/L	0.0855	0.062	0.0863
Magnesium	mg/L	8.09	10.1	12.6
Manganese	mg/L	0.122	0.118	0.199
Mercury	mg/L	< 0.00010	< 0.00001	< 0.00010
Molybdenum	mg/L	0.0038	0.0038	0.0049
Nickel	mg/L	0.007	0.0089	0.0121
Potassium	mg/L	6.2	5.68	7.03

Selenium	mg/L	0.0005	0.00032	0.00041
Silicon	mg/L	0.866	1.64	1.45
Silver	mg/L	< 0.000020	< 0.000020	< 0.000020
Sodium	mg/L	32.5	36.5	52.6
Strontium	mg/L	1.06	0.829	1.19
Sulphur	mg/L	17.3	18.9	24.2
Thallium	mg/L	< 0.000010	0.000012	0.000012
Tin	mg/L	< 0.0050	< 0.0050	< 0.0050
Titanium	mg/L	< 0.0050	0.0136	0.0087
Uranium	mg/L	0.00152	0.0016	0.00214
Vanadium	mg/L	< 0.0050	< 0.0050	< 0.0050
Zinc	mg/L	< 0.0050	< 0.0050	< 0.0050
Zirconium	mg/L	0.00021	0.00083	0.00025
Dissolved Metals				
Aluminum	mg/L	0.0228	0.0192	0.0137
Antimony	mg/L	0.00137	0.00132	0.00125
Arsenic	mg/L	0.242	0.138	0.13
Barium	mg/L	0.0318	0.0323	0.0431
Beryllium	mg/L	< 0.00010	< 0.00010	< 0.00010
Bismuth	mg/L	< 0.0010	< 0.0010	< 0.0010
Boron	mg/L	0.104	0.138	0.15
Cadmium	mg/L	0.000013	0.000014	0.000016
Chromium	mg/L	< 0.0010	< 0.0010	< 0.0010
Cobalt	mg/L	0.00203	0.00208	0.0025
Copper	mg/L	0.00802	0.00516	0.00588
Iron	mg/L	0.0153	0.0321	0.0108
Lead	mg/L	0.00033	0.00035	0.00036
Lithium	mg/L	0.081	0.0707	0.0842
Manganese	mg/L	0.114	0.127	0.188
Mercury	mg/L	< 0.00010	< 0.00001	< 0.00010
Molybdenum	mg/L	0.0039	0.0042	0.0048

Nickel	mg/L	0.0067	0.0084	0.0109
Selenium	mg/L	0.00052	0.0004	0.00041
Silicon	mg/L	0.839	0.929	0.915
Silver	mg/L	< 0.000020	< 0.000020	< 0.000020
Strontium	mg/L	1.07	0.975	1.16
Sulphur	mg/L	16.8	21.7	23.1
Thallium	mg/L	< 0.000010	< 0.000010	< 0.000010
Tin	mg/L	< 0.0050	< 0.0050	< 0.0050
Titanium	mg/L	< 0.0050	< 0.0050	< 0.0050
Uranium	mg/L	0.00152	0.00168	0.00207
Vanadium	mg/L	< 0.0050	< 0.0050	< 0.0050
Zinc	mg/L	0.0051	< 0.0050	< 0.0050
Zirconium	mg/L	< 0.00010	< 0.00010	< 0.00010

MEL-22	**Sample Date**	6/3/2020	6/12/2020	6/21/2020
Parameter	**Unit**			
Field Measured				
pH	pH units	-	-	7.82
Conductivity	uS/cm	-	-	2253
Temperature	°C	-	-	13.8
Conventional Parameters				
pH	pH units	7.49	7.58	7.77
Specific conductivity	umhos/cm	620	1500	2300
Hardness, as CaCO3 (D)	mg/L	143	338	493
Hardness, as CaCO3 (T)	mg/L	145	343	489
Total alkalinity, as CaCO3	mg/L	46	57	69
Total dissolved solids	mg/L	385	940	1430
Total suspended solids	mg/L	18	14	6
Total organic carbon	mg/L	6.5	6.1	7.1
Turbidity	NTU	8.4	5.8	3.9
Major Ions				

Calcium	mg/L	43.2	100	143
Chloride	mg/L	140	350	550
Cyanide	mg/L	< 0.0050	< 0.0050	< 0.0050
Fluoride	mg/L	< 0.10	< 0.10	< 0.10
Magnesium	mg/L	8.53	21.4	33.2
Potassium	mg/L	4.89	9.35	14.9
Sodium	mg/L	49	126	213
Sulphate	mg/L	33	62	96
Nutrients and Chlorophyll a				
Nitrate	mg/L	2.36	5.51	10.2
Nitrite	mg/L	0.068	0.101	0.21
Nitrate + nitrite	mg/L	2.43	5.61	10.4
Total ammonia	mg/L	2.7	4.1	6.7
Total phosphorus	mg/L	0.068	0.067	0.044
Orthophosphate	mg/L	0.012	< 0.010	< 0.010
General Organics				
Total oil and grease	mg/L	< 0.50	-	-
Total Metals				
Aluminum	mg/L	0.546	0.286	0.0825
Antimony	mg/L	< 0.00050	< 0.00050	< 0.00050
Arsenic	mg/L	0.0426	0.0142	0.00853
Barium	mg/L	0.0196	0.0375	0.0457
Beryllium	mg/L	< 0.00010	< 0.00010	< 0.00010
Bismuth	mg/L	< 0.0010	< 0.0010	< 0.0010
Boron	mg/L	0.066	0.123	0.213
Cadmium	mg/L	0.000038	0.00004	0.000037
Calcium	mg/L	43.9	101	143
Chromium	mg/L	0.002	< 0.0010	< 0.0010
Cobalt	mg/L	0.00122	0.00085	0.00074
Copper	mg/L	0.00474	0.00306	0.00294
Iron	mg/L	1.03	0.499	0.146

Lead	mg/L	0.00444	0.00177	0.00058
Lithium	mg/L	0.0215	0.0546	0.0807
Magnesium	mg/L	8.67	22.2	32
Manganese	mg/L	0.291	0.163	0.0869
Mercury	mg/L	< 0.00010	< 0.00010	< 0.00001
Molybdenum	mg/L	0.002	0.0019	0.0029
Nickel	mg/L	0.0054	0.0079	0.0088
Potassium	mg/L	5.1	9.96	14.8
Selenium	mg/L	0.00015	0.00014	0.00017
Silicon	mg/L	1.8	1.21	1.08
Silver	mg/L	0.000027	0.00003	< 0.000020
Sodium	mg/L	49.2	129	207
Strontium	mg/L	0.586	1.78	2.59
Sulphur	mg/L	10.4	24.2	33.5
Thallium	mg/L	0.000016	0.000025	0.000038
Tin	mg/L	< 0.0050	< 0.0050	< 0.0050
Titanium	mg/L	0.0132	0.0061	< 0.0050
Uranium	mg/L	0.0006	0.00103	0.00152
Vanadium	mg/L	< 0.0050	< 0.0050	< 0.0050
Zinc	mg/L	0.0072	< 0.0050	< 0.0050
Zirconium	mg/L	0.00043	0.00025	0.00014
Dissolved Metals				
Aluminum	mg/L	0.0104	0.0081	0.0131
Antimony	mg/L	< 0.00050	< 0.00050	< 0.0010
Arsenic	mg/L	0.0245	0.00793	0.00701
Barium	mg/L	0.0152	0.0327	0.0442
Beryllium	mg/L	< 0.00010	< 0.00010	< 0.00020
Bismuth	mg/L	< 0.0010	< 0.0010	< 0.0020
Boron	mg/L	0.065	0.129	0.201
Cadmium	mg/L	0.000016	0.000031	0.000038
Chromium	mg/L	< 0.0010	< 0.0010	< 0.0020

Cobalt	mg/L	0.00075	0.00063	0.00066
Copper	mg/L	0.00311	0.00254	0.00272
Iron	mg/L	0.0359	0.0196	0.028
Lead	mg/L	0.00024	< 0.00020	< 0.00040
Lithium	mg/L	0.0207	0.0536	0.083
Manganese	mg/L	0.288	0.138	0.0734
Mercury	mg/L	< 0.00010	< 0.00010	< 0.00001
Molybdenum	mg/L	0.0018	0.0019	0.0027
Nickel	mg/L	0.0041	0.0073	0.0089
Selenium	mg/L	0.00011	0.0001	< 0.00020
Silicon	mg/L	0.864	0.862	0.948
Silver	mg/L	< 0.000020	< 0.000020	< 0.000040
Strontium	mg/L	0.567	1.7	2.5
Sulphur	mg/L	11	25.5	35
Thallium	mg/L	0.000012	0.000024	0.000037
Tin	mg/L	< 0.0050	< 0.0050	< 0.01
Titanium	mg/L	< 0.0050	< 0.0050	< 0.01
Uranium	mg/L	0.00057	0.00107	0.00146
Vanadium	mg/L	< 0.0050	< 0.0050	< 0.01
Zinc	mg/L	< 0.0050	< 0.0050	< 0.01
Zirconium	mg/L	< 0.00010	< 0.00010	< 0.00020
Volatile Organics				
Benzene	mg/L	< 0.00020	-	-
Ethylbenzene	mg/L	< 0.00020	-	-
Toluene	mg/L	< 0.00020	-	-
Xylenes	mg/L	< 0.00040	-	-
m,p-Xylenes	mg/L	< 0.00040	-	-
o-Xylene	mg/L	< 0.00020	-	-
F1 (C6-C10)-BTEX	mg/L	< 0.025	-	-
F1 (C6-C10)	mg/L	< 0.025	-	-
F2 (C10-C16)	mg/L	< 0.1	-	-

F3 (C16-C34)	mg/L	< 0.2	-	-
F4 (C34-C50)	mg/L	< 0.2	-	-
Reached baseline at C50	ug/L	YES	-	-

MEL-23	**Sample Date**	6/8/2020	6/15/2020	6/23/2020
Parameter	**Unit**			
Field Measured				
pH	pH units	8.03	7.87	7.71
Conductivity	uS/cm	987	1015	1068
Temperature	°C	5.8	15.7	14.9
Dissolved oxygen	mg/L	9.52	7.45	-
Dissolved oxygen	%	79	74.8	88.1
Conventional Parameters				
pH	pH units	7.84	7.92	7.95
Hardness, as CaCO3 (D)	mg/L	146	145	151
Hardness, as CaCO3 (T)	mg/L	179	154	168
Total alkalinity, as CaCO3	mg/L	87	95	98
Total dissolved solids	mg/L	570	525	520
Total suspended solids	mg/L	110	86	50
Turbidity	NTU	32	110	53
Major Ions				
Calcium	mg/L	34.5	35	35.9
Chloride	mg/L	210	180	210
Cyanide	mg/L	< 0.0050	< 0.0050	< 0.0050
Fluoride	mg/L	0.13	0.14	0.15
Magnesium	mg/L	14.6	13.9	14.9
Potassium	mg/L	11	11.4	12.5
Sodium	mg/L	118	118	129
Sulphate	mg/L	39	45	47

Nutrients and Chlorophyll a				
Nitrate	mg/L	4.01	4	4.24
Nitrite	mg/L	0.045	0.047	0.064
Nitrate + nitrite	mg/L	4.05	4.05	4.3
Total ammonia	mg/L	2.9	2.5	2.5
Total phosphorus	mg/L	0.29	0.23	0.28
Orthophosphate	mg/L	< 0.010	0.012	< 0.010
Total Metals				
Aluminum	mg/L	3.76	2.85	1.62
Antimony	mg/L	0.00194	0.00185	0.00753
Arsenic	mg/L	0.0204	0.0203	0.02
Barium	mg/L	0.0772	0.0634	0.0575
Beryllium	mg/L	< 0.00010	< 0.00010	< 0.00010
Bismuth	mg/L	< 0.0010	< 0.0010	< 0.0010
Boron	mg/L	0.389	0.392	0.507
Cadmium	mg/L	0.000027	0.000022	0.000019
Calcium	mg/L	43.7	37.3	40.2
Chromium	mg/L	0.0107	0.008	0.0039
Cobalt	mg/L	0.00432	0.00383	0.00305
Copper	mg/L	0.00826	0.0074	0.00547
Iron	mg/L	6.51	4.95	2.54
Lead	mg/L	0.00505	0.00428	0.00354
Lithium	mg/L	0.0468	0.0305	0.0291
Magnesium	mg/L	16.9	14.7	16.5
Manganese	mg/L	0.22	0.158	0.128
Mercury	mg/L	< 0.00010	< 0.00001	< 0.00010
Molybdenum	mg/L	0.0093	0.0087	0.0097
Nickel	mg/L	0.0249	0.021	0.0215
Potassium	mg/L	12.4	11.8	13.3
Selenium	mg/L	0.00052	0.00045	0.00049
Silicon	mg/L	6.94	5.65	3.1

Silver	mg/L	0.000036	0.000022	< 0.000020
Sodium	mg/L	123	113	135
Strontium	mg/L	0.594	0.422	0.447
Sulphur	mg/L	16.5	15.4	19.2
Thallium	mg/L	0.000049	0.000038	0.00003
Tin	mg/L	< 0.0050	< 0.0050	< 0.0050
Titanium	mg/L	0.204	0.161	0.0738
Uranium	mg/L	0.0049	0.00417	0.00498
Vanadium	mg/L	0.0114	0.0083	< 0.0050
Zinc	mg/L	0.0119	0.0109	0.0061
Zirconium	mg/L	0.00629	0.00402	0.00326
Dissolved Metals				
Aluminum	mg/L	0.0103	0.0116	0.0117
Antimony	mg/L	0.00188	0.00201	0.00253
Arsenic	mg/L	0.00905	0.00982	0.00949
Barium	mg/L	0.035	0.0366	0.0416
Beryllium	mg/L	< 0.00010	< 0.00010	< 0.00010
Bismuth	mg/L	< 0.0010	< 0.0010	< 0.0010
Boron	mg/L	0.379	0.431	0.442
Cadmium	mg/L	< 0.000010	< 0.000010	< 0.000010
Chromium	mg/L	< 0.0010	< 0.0010	< 0.0010
Cobalt	mg/L	0.00096	0.001	0.001
Copper	mg/L	0.00107	0.00165	0.00248
Iron	mg/L	0.032	0.0382	0.0237
Lead	mg/L	< 0.00020	< 0.00020	< 0.00020
Lithium	mg/L	0.0416	0.0283	0.0268
Manganese	mg/L	0.11	0.0912	0.0736
Mercury	mg/L	< 0.00010	< 0.00001	< 0.00010
Molybdenum	mg/L	0.0088	0.0088	0.0097
Nickel	mg/L	0.0129	0.0126	0.015
Selenium	mg/L	0.00044	0.00035	0.0004

Silicon	mg/L	0.827	0.991	1.12
Silver	mg/L	< 0.000020	< 0.000020	< 0.000020
Strontium	mg/L	0.518	0.42	0.419
Sulphur	mg/L	15.9	17	18.5
Thallium	mg/L	< 0.000010	< 0.000010	< 0.000010
Tin	mg/L	< 0.0050	< 0.0050	< 0.0050
Titanium	mg/L	< 0.0050	< 0.0050	< 0.0050
Uranium	mg/L	0.00422	0.00416	0.00476
Vanadium	mg/L	< 0.0050	< 0.0050	< 0.0050
Zinc	mg/L	< 0.0050	< 0.0050	< 0.0050
Zirconium	mg/L	0.00033	0.0003	0.00025

MEL-25	**Sample Date**	6/7/2020
Parameter	**Unit**	
Field Measured		
pH	pH units	7.97
Conductivity	uS/cm	105
Temperature	°C	2.6
Conventional Parameters		
pH	pH units	7.6
Total suspended solids	mg/L	8
Nutrients and Chlorophyll a		
Total ammonia	mg/L	0.45
General Organics		
Total oil and grease	mg/L	< 0.50
Total Metals		
Arsenic	mg/L	0.00294
Copper	mg/L	0.00454
Lead	mg/L	0.00077
Nickel	mg/L	0.0046
Volatile Organics		

Benzene	mg/L	< 0.00020
Ethylbenzene	mg/L	< 0.00020
Toluene	mg/L	< 0.00020
Xylenes	mg/L	< 0.00040
m,p-Xylenes	mg/L	< 0.00040
o-Xylene	mg/L	< 0.00020
F1 (C6-C10)-BTEX	mg/L	< 0.025
F1 (C6-C10)	mg/L	< 0.025
F2 (C10-C16)	mg/L	< 0.1
F3 (C16-C34)	mg/L	< 0.2
F4 (C34-C50)	mg/L	< 0.2
Reached baseline at C50	ug/L	YES

MEL Surface Runoff	**Sample Date**	6/7/2020	6/7/2020	6/12/2020	6/16/2020	6/28/2020
	Location	MEL-SR1	MEL-SR7	MEL-SR15	MEL-SR12	MEL-SR1
Parameter	**Unit**					
pH	pH units	7.6	7.72	7.51	7.51	7.58
Conductivity	uS/cm	307.4	305.5	111.8	218.9	1371
Temperature	°C	2.8	1.1	8.5	5.3	9.9
Dissolved oxygen	mg/L	13.48	13.81	-	13.29	9.61
Dissolved oxygen	%	100	97.5	101.8	105	85.2
pH	pH units	7.76	7.76	7.33	7.56	8.02
Hardness, as CaCO3 (T)	mg/L	116	112	24.7	63	444
Total alkalinity, as CaCO3	mg/L	85	90	16	47	200
Total dissolved solids	mg/L	380	215	55	85	955
Total suspended solids	mg/L	4	3	1	2	1
Turbidity	NTU	4.8	4.4	1.3	0.5	0.5
Chloride	mg/L	29	25	21	25	230
Cyanide	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10	0.1

Sulphate	mg/L	26	26	3.9	24	110
Nitrate	mg/L	0.12	< 0.10	< 0.10	< 0.10	0.28
Nitrite	mg/L	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Nitrate + nitrite	mg/L	0.12	< 0.10	< 0.10	< 0.10	0.28
Total ammonia	mg/L	0.52	0.18	0.059	0.25	0.075
Total phosphorus	mg/L	0.048	0.039	0.053	0.048	< 0.020
Orthophosphate	mg/L	< 0.010	< 0.010	< 0.010	< 0.010	0.053
Total oil and grease	mg/L	< 0.50	< 0.50	< 0.50	< 0.50	1.3
Aluminum	mg/L	0.299	0.198	0.058	0.0175	0.014
Antimony	mg/L	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
Arsenic	mg/L	0.00186	0.00148	0.00242	0.00053	0.00208
Barium	mg/L	0.0237	0.0239	0.0094	0.0146	0.0591
Beryllium	mg/L	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010
Bismuth	mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Boron	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	0.052
Cadmium	mg/L	0.000022	0.000025	< 0.000010	< 0.000010	0.000012
Calcium	mg/L	37.3	36.3	6.89	19.7	140
Chromium	mg/L	0.0018	0.0013	< 0.0010	< 0.0010	< 0.0010
Cobalt	mg/L	0.00125	0.00086	0.0003	< 0.00020	0.00028
Copper	mg/L	0.00383	0.00355	0.00184	0.00101	0.00308
Iron	mg/L	0.475	0.394	0.258	0.123	0.058
Lead	mg/L	0.00031	0.00024	0.00031	< 0.00020	< 0.00020
Lithium	mg/L	0.0068	0.0025	< 0.0020	< 0.0020	0.0415
Magnesium	mg/L	5.41	5.17	1.82	3.35	23.1
Manganese	mg/L	0.131	0.145	0.0446	0.0173	0.0098
Mercury	mg/L	< 0.00001	< 0.00001	< 0.00010	< 0.00001	< 0.00010
Molybdenum	mg/L	0.001	0.0011	< 0.0010	< 0.0010	< 0.0010
Nickel	mg/L	0.0057	0.0036	< 0.0010	< 0.0010	0.0126
Potassium	mg/L	3.84	3.73	1.3	2.22	10.6
Selenium	mg/L	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010
Silicon	mg/L	1.12	0.911	0.226	0.434	1.21

Silver	mg/L	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020
Sodium	mg/L	13	12.4	9.72	14.3	73.3
Strontium	mg/L	0.213	0.159	0.0451	0.0801	0.799
Sulphur	mg/L	8.5	8.35	< 3	7.49	34.8
Thallium	mg/L	0.000012	0.000011	< 0.000010	< 0.000010	0.000012
Tin	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Titanium	mg/L	0.0108	0.0063	< 0.0050	< 0.0050	< 0.0050
Uranium	mg/L	0.00082	0.00073	< 0.00010	0.0001	0.00256
Vanadium	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Zinc	mg/L	0.0175	0.0165	< 0.0050	< 0.0050	0.0347
Zirconium	mg/L	0.00016	0.00013	< 0.00010	< 0.00010	< 0.00010

SECTION 3 • MATERIAL MANAGEMENT

3.1 LANDFILL / LANDFARM

The volume of material placed into the landfill is evaluated through periodic surveys. According to the most recent survey done April 7th 2020 the landfill contained approximately 18,661 m³ of material.

In June 2020 no contaminated soil was transferred to the Type A Landfarm as a result of spills cleanup.

3.2 ORE

Approximately 129,557 tonnes of ore were processed through the Mill in June 2020.

3.3 WASTE ROCK STORAGE FACILITY

In June 2020, a total of 45,669 tonnes of waste rock was removed in the mine development process. 11,066 tonnes were used as underground dry rockfill. No waste was stockpiled for progressive closure cover.

3.4 TAILINGS

82,772 dry tonnes of filtered tailings were sent to the Tailing Storage Facility in June 2020. 46,785 tonnes of tailings were used for paste underground backfill.

SECTION 4 SPILL MANAGEMENT

4.1 INTERNAL AND REPORTABLE SPILLS

All spills reported internally (14) are listed in the table 4.1 and were managed according to Agnico's spill contingency plan. Spills were contained and cleaned up, contaminated material was disposed of in an appropriate manner, and the clean-up actions were monitored closely by the Environment Department. Two reportable spills occurred in June2020.

Table 4.1: Summary of Agnico's Spill Reports in June 2020

Date and time of occurrence	If material not listed in dropdown or more details, enter here	Estimated quantity (l)	Exact location of incident	Description of incident	Describe immediate corrective actions
Wednesday, June 03, 2020 6:00:00 PM		10m3	East of reverse Osmosis set up	During winter snow remove shovel struck 20" water line. when water line was turned on, a crack was found	Pump was immediately shut off until repair to the line can be completed.

				on the flange beside where the excavator had hit the pipe.	
Saturday, June 06, 2020 9:00:00 AM	Hydraulic oil	15.00	SP4	A small spill was observed on SP4 ramp.	Oil absorbent rags were used to soak up spill; rags were picked up and brought to the hazmat laydown and put in proper storage.
Friday, June 12, 2020 1:00:00 AM	Hydraulic oil	12.00	SP4 stockpile	An hydraulic hose busted during a normal excavation work.	Operator shut down the power of the excavator and grab the spill kit right away. He got down of the excavator and laid down absorbent material on the spill. After this, he got back inside the excavator and took off the pressure located in the hydraulic tank permitting this way to reduce or ends the oil leaking. Following this, he called the mechanics and they showed up to fix the problem.
Friday, June 12, 2020 6:00:00 AM	Hydraulic Oil	20.00	SP4 stockpile	A hydraulic Hose busted during a normal excavation work. Hydraulic Oil spread on the excavator right side. Few drops around 3 or 4 liters fell on the ground below the excavator and the rest on the excavator traction.	Shut down the power of the excavator right away. The operator calls the mechanic and he came right away to address and fix the problem. Material picked up and disposed of adequately.
Friday, June 12, 2020 11:30:00 AM	Hydraulic oil	20.00	CP4 ramp	hydraulic line on back of excavator was leaking.	Millwright leading operation stopped the excavator. Spilled cleaned up and material disposed of adequately.
Saturday, June 13, 2020 1:00:00 AM	Diesel	50.00	Power Plant	Snow melted in the area revealing spilled 50L of diesel. It's likely the result of the frost fighter being over filled in winter.	E&I placed contaminated gravel in a separate pile in the landfarm. The gravel will go to the WRSF once free of hydrocarbons.
Sunday, June 14, 2020 1:00:00 AM	Hydraulic oil	3.00	MSB Parking Area	A small spill was observed during the weekly site clean up event; techs arrived at the scene and	Rags were exchanged and used absorbent sand to soak up any left over material

				absorbent rags were already deployed	
Monday, June 15, 2020 1:00:00 AM	Hydraulic Oil	10.00	KCG Shop Back-yard	A slow spill occurred on the 1507 haul truck. This truck is parked here since few weeks because of several mechanical issues.	Spill picked up and materials disposed of adequately.
Tuesday, June 16, 2020 9:00:00 PM	Hydraulic oil	0.50	Exploration Camp parking lot	When backing up the vehicle to park it at the exploration camp, a leak occurred on the vehicle's power steering system. Once the vehicle stop the leak has automatically stopped.	As the leak occurred in a small water pound in the parking lot we filled up 3 drums using a trash pump. We also collected all the oil that was on the ground in 4 plastic buckets. Then we put matting material all around to control the spill from spreading and collected the remaining material.
Sunday, June 21, 2020 8:00:00 AM	Motor oil	4.00	KCG Shop yard	Supposition : A worker unfortunately dropped a 4l motor oil can by his pick up tail gate, then rolled on it without notice the spill.	Absorbent pad have been used by mechanics and disposed of adequately,
Tuesday, June 23, 2020 11:00:00 AM	Fuel	5.00	Jetty 1	fuel system of the pump was linked to an external tank - the return line for the fuel was returning into the pump's day tank rather than the external tank, this occurred until the day tank overflowed.	stopped leak, put spill pads down, and installed an absorbent boom between the spill and the water to ensure there could be no fuel reaching the water. Environment department was called and clean up was completed.
Saturday, June 27, 2020 3:30:00 AM	Jet A fuel	205.00	Beside Exploration garage Flatbed fuel cache	While unloading JET A fuel drums off of Flat rack near exploration garage at Exploration camp ,operator had one fork go over the top of pallet causing an puncture in one drum .	The spill was contained and material disposed of adequately.
Sunday, June 28, 2020 10:30:00 AM	Sewage water	20.00	Paste plant	The toilet at the paste plant have to be empty by a vacuum truck and the pipe to empty it is broken, so the toilet container as overflow and drop outside on the ground	Spill picked up and material disposed of adequately.
Monday, June 29, 2020 4:00:00 PM	Hydraulic oil	80.00	WRSF 3	When the haul truck operator lifting the box to dump the rocks the hydraulic hose broke.	The operator parked the truck and called the mechanics. The mechanics brought a

				The operator, unaware of the situation, drove 100 m to the pit where another worker noticed the spill.	drip tray and used absorbent pads to contain the oil leaking from the machine. Material disposed of adequately