



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

Prepared for:

Nunavut Water Board

Prepared by:

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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 October 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 October 2020

	Monthly Usage (m ³)
Camp and Mill (MEL-11)	6,830.22
Construction – Batch Plant (MEL-26 – A8)	0
Dust suppression	0
Total October	6,830.22
Year to date 2020	238,944.07

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 and stopped October 3rd, 2020. A total of 13,829 m³ was discharged throughout October 2020.

2.4 MELVIN BAY DISCHARGE

Discharge to sea via the Final Discharge Point (MEL-26) started August 10th 2020 and stopped October 8th, 2020. A total of approximately 5,275 m³ was discharged throughout October 2020.

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 October 2020.

2.6 SEWAGE TREATMENT PLANT

In October 2020, 4,635 m³ of treated wastewater was discharged into CP1. The majority of the sludge is disposed of in the WRSF.

2.7 CONTAINMENTS

Discharged from the Itivia fuel containment facility (Station Mel-25) started June 27th and ended in July. Approximately 3,780 m³ was discharged through the discharge period.

2.8 MONITORING ANALYTICAL DATA

In October 2020, samples related to the Water Licence were taken. See below the analytical results from these monitoring stations. No exceedance occurred in October 2020.

MEL-11	Sample date	10/9/2020
Parameter	Unit	
WQ01- Field Measured		
Conductivity	uS/cm	115.6
Dissolved oxygen	%	103.6
Dissolved oxygen	mg/L	13.08
pH	-	8.32
Temperature	°C	5.4
WQ02- Conventional Parameters		
Dissolved organic carbon	mg/L	3.2
Hardness, as CaCO3 (D)	mg/L	27.9
Hardness, as CaCO3 (T)	mg/L	29.8
pH	pH units	7.36
Specific conductivity	umhos/cm	110
Total alkalinity, as CaCO3	mg/L	20
Total organic carbon	mg/L	3.2
Total suspended solids	mg/L	1
Turbidity	NTU	0.3
WQ03- Major Ions		
Bicarbonate, as CaCO3	mg/L	20
Calcium	mg/L	8.39
Carbonate, as CaCO3	mg/L	< 1.0
Chloride	mg/L	18
Cyanide	mg/L	< 0.0050
Cyanide (free)	mg/L	< 0.001
Magnesium	mg/L	1.7
Potassium	mg/L	1.15
Silica	mg/L	0.22
Sodium	mg/L	7.55

Sulphate	mg/L	5.8
WQ04- Nutrients and Chlorophyll a		
Nitrate	mg/L	< 0.10
Nitrate + nitrite	mg/L	< 0.10
Nitrite	mg/L	< 0.010
Orthophosphate	mg/L	< 0.010
Total ammonia	mg/L	< 0.050
Total Kjeldahl nitrogen	mg/L	0.17
Total phosphorus	mg/L	< 0.020
WQ06- Total Metals		
Aluminum	mg/L	0.0053
Antimony	mg/L	< 0.0005
Arsenic	mg/L	0.00044
Barium	mg/L	0.0085
Beryllium	mg/L	< 0.0001
Bismuth	mg/L	< 0.001
Boron	mg/L	< 0.05
Cadmium	mg/L	< 0.00001
Calcium	mg/L	9.01
Chromium	mg/L	< 0.001
Cobalt	mg/L	< 0.0002
Copper	mg/L	0.00095
Iron	mg/L	0.029
Lead	mg/L	< 0.0002
Lithium	mg/L	< 0.002
Magnesium	mg/L	1.76
Manganese	mg/L	0.0037
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.001
Nickel	mg/L	< 0.001
Potassium	mg/L	1.09

Selenium	mg/L	< 0.0001
Silicon	mg/L	0.11
Silver	mg/L	< 0.00002
Sodium	mg/L	7.66
Strontium	mg/L	0.0579
Sulphur	mg/L	< 3
Thallium	mg/L	0.000014
Tin	mg/L	< 0.005
Titanium	mg/L	< 0.005
Uranium	mg/L	< 0.0001
Vanadium	mg/L	< 0.005
Zinc	mg/L	< 0.005
Zirconium	mg/L	< 0.0001
WQ07- Dissolved Metals		
Aluminum	mg/L	0.0056
Antimony	mg/L	< 0.0005
Arsenic	mg/L	0.00043
Barium	mg/L	0.0087
Beryllium	mg/L	< 0.0001
Bismuth	mg/L	< 0.001
Boron	mg/L	< 0.05
Cadmium	mg/L	< 0.00001
Calcium	mg/L	8.39
Chromium	mg/L	< 0.001
Cobalt	mg/L	< 0.0002
Copper	mg/L	0.0008
Iron	mg/L	0.0182
Lead	mg/L	< 0.0002
Lithium	mg/L	< 0.002
Magnesium	mg/L	1.7
Manganese	mg/L	0.0013

Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.001
Nickel	mg/L	< 0.001
Selenium	mg/L	< 0.0001
Silicon	mg/L	0.104
Silver	mg/L	< 0.00002
Strontium	mg/L	0.0601
Sulphur	mg/L	< 3.0
Thallium	mg/L	< 0.00001
Tin	mg/L	< 0.005
Titanium	mg/L	< 0.005
Uranium	mg/L	< 0.0001
Vanadium	mg/L	< 0.005
Zinc	mg/L	< 0.005
Zirconium	mg/L	< 0.0001
WQ10- Volatile Organics		
Benzene	mg/L	< 0.0002
Ethylbenzene	mg/L	< 0.0002
F1 (C6-C10)	mg/L	< 0.025
F1 (C6-C10)-BTEX	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
m,p-Xylenes	mg/L	< 0.0004
o-Xylene	mg/L	< 0.0002
Reached baseline at C50	-	YES
Toluene	mg/L	< 0.0002
Xylenes	mg/L	< 0.0004

MEL-12	Sample date	10/3/2020
Parameter	Unit	
WQ01- Field Measured		
Conductivity	uS/cm	4188
Dissolved oxygen	mg/L	13.87
pH	-	7
Temperature	°C	1.8
WQ02- Conventional Parameters		
Hardness, as CaCO ₃ (D)	mg/L	958
Hardness, as CaCO ₃ (T)	mg/L	1020
pH	pH units	7.79
Specific conductivity	umhos/cm	4100
Total alkalinity, as CaCO ₃	mg/L	83
Total organic carbon	mg/L	13
Total suspended solids	mg/L	5
Turbidity	NTU	1.2
WQ03- Major Ions		
Calcium	mg/L	270
Chloride	mg/L	1000
Cyanide	mg/L	< 0.0050
Fluoride	mg/L	< 0.10
Magnesium	mg/L	68.7
Potassium	mg/L	28.5
Sodium	mg/L	394
Sulphate	mg/L	300
WQ04- Nutrients and Chlorophyll a		
Nitrate	mg/L	17.3
Nitrate + nitrite	mg/L	17.6

Nitrite	mg/L	0.325
Orthophosphate	mg/L	0.026
Total ammonia	mg/L	1.8
Total phosphorus	mg/L	0.08
WQ06- Total Metals		
Aluminum	mg/L	0.179
Antimony	mg/L	0.00079
Arsenic	mg/L	0.00556
Barium	mg/L	0.113
Beryllium	mg/L	< 0.0001
Bismuth	mg/L	< 0.001
Boron	mg/L	0.454
Cadmium	mg/L	0.000029
Calcium	mg/L	297
Chromium	mg/L	< 0.001
Cobalt	mg/L	0.00198
Copper	mg/L	0.00222
Iron	mg/L	0.095
Lead	mg/L	0.00029
Lithium	mg/L	0.0857
Magnesium	mg/L	67.7
Manganese	mg/L	0.326
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0047
Nickel	mg/L	0.0091
Potassium	mg/L	28.4
Selenium	mg/L	0.0006
Silicon	mg/L	0.941
Silver	mg/L	< 0.00002
Sodium	mg/L	409
Strontium	mg/L	4.29

Sulphur	mg/L	102
Thallium	mg/L	0.000039
Tin	mg/L	< 0.005
Titanium	mg/L	< 0.005
Uranium	mg/L	0.00352
Vanadium	mg/L	< 0.005
Zinc	mg/L	< 0.005
Zirconium	mg/L	0.00015
WQ07- Dissolved Metals		
Aluminum	mg/L	0.142
Antimony	mg/L	< 0.001
Arsenic	mg/L	0.00471
Barium	mg/L	0.115
Beryllium	mg/L	< 0.0002
Bismuth	mg/L	< 0.002
Boron	mg/L	0.49
Cadmium	mg/L	0.00002
Calcium	mg/L	270
Chromium	mg/L	< 0.002
Cobalt	mg/L	0.00203
Copper	mg/L	0.00237
Iron	mg/L	0.039
Lead	mg/L	< 0.0004
Lithium	mg/L	0.0941
Magnesium	mg/L	68.7
Manganese	mg/L	0.329
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0046
Nickel	mg/L	0.0097
Selenium	mg/L	0.00057
Silicon	mg/L	0.858

Silver	mg/L	< 0.00004
Strontium	mg/L	4.18
Sulphur	mg/L	105
Thallium	mg/L	0.000034
Tin	mg/L	< 0.01
Titanium	mg/L	< 0.01
Uranium	mg/L	0.00339
Vanadium	mg/L	< 0.01
Zinc	mg/L	< 0.01
Zirconium	mg/L	< 0.0002

MEL-13	Sample date	10/4/2020
Parameter	Unit	
WQ01- Field Measured		
Conductivity	uS/cm	115.3
Dissolved oxygen	%	99.9
Dissolved oxygen	mg/L	13.34
pH	-	7.65
Temperature	°C	3.3
WQ02- Conventional Parameters		
Dissolved organic carbon	mg/L	3.9
Dissolved Oxygen	mg/L	10.6
Hardness, as CaCO ₃ (D)	mg/L	31.2
Hardness, as CaCO ₃ (T)	mg/L	31.6
pH (T)	pH units	7.26
Specific conductivity	umhos/cm	120
Total alkalinity, as CaCO ₃	mg/L	20
Total organic carbon	mg/L	3.4
Total suspended solids	mg/L	1

Turbidity	NTU	0.5
WQ03- Major Ions		
Bicarbonate, as CaCO ₃	mg/L	20
Calcium	mg/L	9.38
Carbonate, as CaCO ₃	mg/L	< 1.0
Chloride	mg/L	20
Cyanide	mg/L	< 0.0050
Cyanide (free)	mg/L	< 0.001
Magnesium	mg/L	1.88
Potassium	mg/L	1.22
Silica	mg/L	0.19
Sodium	mg/L	8.58
Sulphate	mg/L	6.3
WQ04- Nutrients and Chlorophyll a		
Dissolved phosphorus	mg/L	0.0053
Nitrate	mg/L	< 0.10
Nitrate + nitrite	mg/L	< 0.10
Nitrite	mg/L	< 0.010
Orthophosphate	mg/L	< 0.010
Total ammonia	mg/L	0.19
Total Kjeldahl nitrogen	mg/L	0.24
Total phosphorus (SM4500-PBF)	mg/L	< 0.020
Total phosphorus (SW6020)	mg/L	0.0112
WQ06- Total Metals		
Aluminum	mg/L	0.0192
Antimony	mg/L	0.00002
Arsenic	mg/L	0.000621
Barium	mg/L	0.00864
Beryllium	mg/L	< 0.00001
Bismuth	mg/L	< 0.000005

Boron	mg/L	< 0.01
Cadmium	mg/L	< 0.000005
Calcium	mg/L	9.6
Chromium	mg/L	< 0.0001
Cobalt	mg/L	0.0000418
Copper	mg/L	0.000934
Iron	mg/L	0.0531
Lead	mg/L	0.0000894
Lithium	mg/L	0.00146
Magnesium	mg/L	1.86
Manganese	mg/L	0.00464
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.000135
Nickel	mg/L	0.000772
Potassium	mg/L	1.23
Selenium	mg/L	0.000041
Silicon	mg/L	0.113
Silver	mg/L	< 0.000005
Sodium	mg/L	8.49
Strontium	mg/L	0.0683
Sulphur	mg/L	< 3.0
Thallium	mg/L	0.0000035
Tin	mg/L	< 0.0002
Titanium	mg/L	0.00084
Uranium	mg/L	0.0000256
Vanadium	mg/L	< 0.0002
Zinc	mg/L	0.00102
Zirconium	mg/L	< 0.0001
WQ07- Dissolved Metals		
Aluminum	mg/L	0.00204
Antimony	mg/L	< 0.00002

Arsenic	mg/L	0.000471
Barium	mg/L	0.00849
Beryllium	mg/L	< 0.00001
Bismuth	mg/L	< 0.000005
Boron	mg/L	< 0.01
Cadmium	mg/L	< 0.000005
Calcium	mg/L	9.38
Chromium	mg/L	< 0.0001
Cobalt	mg/L	0.0000167
Copper	mg/L	0.000819
Iron	mg/L	0.0051
Lead	mg/L	< 0.000005
Lithium	mg/L	0.00143
Magnesium	mg/L	1.88
Manganese	mg/L	0.000343
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.000151
Nickel	mg/L	0.000682
Selenium	mg/L	< 0.00004
Silicon	mg/L	0.092
Silver	mg/L	< 0.000005
Strontium	mg/L	0.067
Sulphur	mg/L	< 3.0
Thallium	mg/L	0.0000028
Tin	mg/L	< 0.0002
Titanium	mg/L	< 0.0005
Uranium	mg/L	0.0000229
Vanadium	mg/L	< 0.0002
Zinc	mg/L	0.00043
Zirconium	mg/L	< 0.0001
WQ08- Radionuclides		

Radium-226	Bq/l	< 0.0050
WQ10- Volatile Organics		
Benzene	mg/L	< 0.0002
Ethylbenzene	mg/L	< 0.0002
F1 (C6-C10)	mg/L	< 0.025
F1 (C6-C10)-BTEX	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
m,p-Xylenes	mg/L	< 0.0004
o-Xylene	mg/L	< 0.0002
Reached baseline at C50	-	YES
Toluene	mg/L	< 0.0002
Xylenes	mg/L	< 0.0004

MEL-14		Sample date	10/2/2020
Parameter	Unit		
WQ01- Field Measured			
Conductivity	uS/cm		4181
Dissolved oxygen	%		105
Dissolved oxygen	mg/L		14.03
pH	-		7.59
Temperature	°C		2.7
WQ02- Conventional Parameters			
Dissolved organic carbon	mg/L		12
Dissolved Oxygen	mg/L		10.5
Hardness, as CaCO3 (D)	mg/L		1010
Hardness, as CaCO3 (T)	mg/L		971

pH	pH units	7.61
Specific conductivity	umhos/cm	4000
Total alkalinity, as CaCO ₃	mg/L	75
Total organic carbon	mg/L	12
Total suspended solids	mg/L	5
Turbidity	NTU	0.6
WQ03- Major Ions		
Bicarbonate, as CaCO ₃	mg/L	75
Calcium	mg/L	293
Carbonate, as CaCO ₃	mg/L	< 1.0
Chloride	mg/L	1100
Cyanide	mg/L	< 0.0050
Cyanide (free)	mg/L	0.0023
Fluoride	mg/L	< 0.10
Magnesium	mg/L	68
Potassium	mg/L	29.1
Silica	mg/L	1.8
Sodium	mg/L	395
Sulphate	mg/L	310
WQ04- Nutrients and Chlorophyll a		
Biochemical Oxygen Demand, 5 Day	mg/L	< 2
Nitrate	mg/L	16.1
Nitrate + nitrite	mg/L	16.4
Nitrite	mg/L	0.35
Orthophosphate	mg/L	< 0.010
Total ammonia	mg/L	2.3
Total Kjeldahl nitrogen	mg/L	3.4
Total phosphorus	mg/L	0.029
WQ06- Total Metals		
Aluminum	mg/L	0.585

Antimony	mg/L	< 0.001
Arsenic	mg/L	0.00243
Barium	mg/L	0.114
Beryllium	mg/L	< 0.0002
Bismuth	mg/L	< 0.002
Boron	mg/L	0.464
Cadmium	mg/L	0.00003
Calcium	mg/L	273
Chromium	mg/L	< 0.002
Cobalt	mg/L	0.00209
Copper	mg/L	0.0019
Iron	mg/L	0.028
Lead	mg/L	< 0.0004
Lithium	mg/L	0.0839
Magnesium	mg/L	70.4
Manganese	mg/L	0.333
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0045
Nickel	mg/L	0.0102
Potassium	mg/L	28.9
Selenium	mg/L	0.0006
Silicon	mg/L	0.846
Silver	mg/L	< 0.00004
Sodium	mg/L	406
Strontium	mg/L	4.07
Sulphur	mg/L	101
Thallium	mg/L	0.000041
Tin	mg/L	< 0.01
Titanium	mg/L	< 0.01
Uranium	mg/L	0.00269
Vanadium	mg/L	< 0.01

Zinc	mg/L	< 0.01
Zirconium	mg/L	< 0.0002
WQ07- Dissolved Metals		
Aluminum	mg/L	0.122
Antimony	mg/L	0.00079
Arsenic	mg/L	0.00195
Barium	mg/L	0.113
Beryllium	mg/L	< 0.0001
Bismuth	mg/L	< 0.001
Boron	mg/L	0.452
Cadmium	mg/L	0.000029
Calcium	mg/L	293
Chromium	mg/L	< 0.001
Cobalt	mg/L	0.00189
Copper	mg/L	0.00167
Iron	mg/L	0.0141
Lead	mg/L	< 0.0002
Lithium	mg/L	0.0884
Magnesium	mg/L	68
Manganese	mg/L	0.339
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0046
Nickel	mg/L	0.0091
Selenium	mg/L	0.00059
Silicon	mg/L	0.917
Silver	mg/L	< 0.00002
Strontium	mg/L	4.39
Sulphur	mg/L	104
Thallium	mg/L	0.000044
Tin	mg/L	< 0.005
Titanium	mg/L	< 0.005

Uranium	mg/L	0.0025
Vanadium	mg/L	< 0.005
Zinc	mg/L	< 0.005
Zirconium	mg/L	< 0.0001
WQ08- Radionuclides		
Radium-226	Bq/l	0.023
WQ09- Toxicity		
Daphnia 48 h Static Acute Test - EC50	%	>100
Daphnia 48 h static acute test - LC50	%	>100
LC50 (96h) - Rainbow Trout	%	>100
WQ10- Volatile Organics		
Benzene	mg/L	< 0.0002
Ethylbenzene	mg/L	< 0.0002
F1 (C6-C10)	mg/L	< 0.025
F1 (C6-C10)-BTEX	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
m,p-Xylenes	mg/L	< 0.0004
o-Xylene	mg/L	< 0.0002
Reached baseline at C50	-	YES
Toluene	mg/L	< 0.0002
Xylenes	mg/L	< 0.0004

MEL-20	Sample date	10/3/2020
Parameter	Unit	
WQ01- Field Measured		
Conductivity	uS/cm	5261
Dissolved oxygen	mg/L	14.21
pH	-	7.42
Temperature	°C	1.4
WQ02- Conventional Parameters		
Hardness, as CaCO ₃ (D)	mg/L	997
Hardness, as CaCO ₃ (T)	mg/L	991
pH	pH units	7.8
Total alkalinity, as CaCO ₃	mg/L	120
Total suspended solids	mg/L	7
Turbidity	NTU	0.4
WQ03- Major Ions		
Calcium	mg/L	251
Chloride	mg/L	1200
Cyanide	mg/L	0.0065
Fluoride	mg/L	0.2
Magnesium	mg/L	89.7
Potassium	mg/L	38
Sodium	mg/L	590
Sulphate	mg/L	490
WQ04- Nutrients and Chlorophyll a		
Nitrate	mg/L	33.8
Nitrate + nitrite	mg/L	34.4
Nitrite	mg/L	0.602
Orthophosphate	mg/L	0.029
Total ammonia	mg/L	18
Total phosphorus	mg/L	0.063

WQ06- Total Metals		
Aluminum	mg/L	0.076
Antimony	mg/L	0.0012
Arsenic	mg/L	0.0796
Barium	mg/L	0.0977
Beryllium	mg/L	< 0.0002
Bismuth	mg/L	< 0.002
Boron	mg/L	0.527
Cadmium	mg/L	0.000126
Calcium	mg/L	239
Chromium	mg/L	< 0.002
Cobalt	mg/L	0.00938
Copper	mg/L	0.009
Iron	mg/L	0.263
Lead	mg/L	0.00186
Lithium	mg/L	0.0167
Magnesium	mg/L	95.9
Manganese	mg/L	0.784
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0086
Nickel	mg/L	0.0529
Potassium	mg/L	38.8
Selenium	mg/L	0.00217
Silicon	mg/L	2.04
Silver	mg/L	< 0.00004
Sodium	mg/L	642
Strontium	mg/L	2.12
Sulphur	mg/L	192
Thallium	mg/L	0.000045
Tin	mg/L	< 0.01
Titanium	mg/L	< 0.01

Uranium	mg/L	0.0145
Vanadium	mg/L	< 0.01
Zinc	mg/L	< 0.01
Zirconium	mg/L	0.0007
WQ07- Dissolved Metals		
Aluminum	mg/L	0.0064
Antimony	mg/L	0.00118
Arsenic	mg/L	0.0627
Barium	mg/L	0.0922
Beryllium	mg/L	< 0.0001
Bismuth	mg/L	< 0.001
Boron	mg/L	0.558
Cadmium	mg/L	0.000131
Calcium	mg/L	251
Chromium	mg/L	< 0.001
Cobalt	mg/L	0.00841
Copper	mg/L	0.00759
Iron	mg/L	0.0746
Lead	mg/L	0.00063
Lithium	mg/L	0.0194
Magnesium	mg/L	89.7
Manganese	mg/L	0.718
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0082
Nickel	mg/L	0.047
Selenium	mg/L	0.00206
Silicon	mg/L	2.14
Silver	mg/L	< 0.00002
Strontium	mg/L	2.14
Sulphur	mg/L	189
Thallium	mg/L	0.00004

Tin	mg/L	< 0.005
Titanium	mg/L	< 0.005
Uranium	mg/L	0.0134
Vanadium	mg/L	< 0.005
Zinc	mg/L	< 0.005
Zirconium	mg/L	0.00069

MEL-21	Sample date	10/3/2020
Parameter	Unit	
WQ01- Field Measured		
Conductivity	uS/cm	4545
Dissolved oxygen	mg/L	13.51
pH	-	8.03
Temperature	°C	2.4
WQ02- Conventional Parameters		
Hardness, as CaCO ₃ (D)	mg/L	954
Hardness, as CaCO ₃ (T)	mg/L	1010
pH	pH units	7.67
Total alkalinity, as CaCO ₃	mg/L	110
Total suspended solids	mg/L	38
Turbidity	NTU	3.1
WQ03- Major Ions		
Calcium	mg/L	271
Chloride	mg/L	800
Cyanide	mg/L	< 0.0050
Fluoride	mg/L	0.16
Magnesium	mg/L	67.3
Potassium	mg/L	19.4
Sodium	mg/L	264

Sulphate	mg/L	350
WQ04- Nutrients and Chlorophyll a		
Nitrate	mg/L	2.61
Nitrate + nitrite	mg/L	2.61
Nitrite	mg/L	< 0.010
Orthophosphate	mg/L	< 0.010
Total ammonia	mg/L	0.42
Total phosphorus	mg/L	< 0.020
WQ06- Total Metals		
Aluminum	mg/L	0.106
Antimony	mg/L	0.0012
Arsenic	mg/L	0.015
Barium	mg/L	0.128
Beryllium	mg/L	< 0.0001
Bismuth	mg/L	< 0.001
Boron	mg/L	0.332
Cadmium	mg/L	0.000124
Calcium	mg/L	296
Chromium	mg/L	< 0.001
Cobalt	mg/L	0.00466
Copper	mg/L	0.00429
Iron	mg/L	0.257
Lead	mg/L	0.00134
Lithium	mg/L	0.137
Magnesium	mg/L	66
Manganese	mg/L	0.34
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0111
Nickel	mg/L	0.0303
Potassium	mg/L	19.1
Selenium	mg/L	0.00029

Silicon	mg/L	3.57
Silver	mg/L	< 0.00002
Sodium	mg/L	267
Strontium	mg/L	2.87
Sulphur	mg/L	118
Thallium	mg/L	0.000019
Tin	mg/L	< 0.005
Titanium	mg/L	0.0061
Uranium	mg/L	0.00631
Vanadium	mg/L	< 0.005
Zinc	mg/L	< 0.005
Zirconium	mg/L	0.00035
WQ07- Dissolved Metals		
Aluminum	mg/L	0.0151
Antimony	mg/L	0.0012
Arsenic	mg/L	0.0118
Barium	mg/L	0.129
Beryllium	mg/L	< 0.0002
Bismuth	mg/L	< 0.002
Boron	mg/L	0.377
Cadmium	mg/L	0.000095
Calcium	mg/L	271
Chromium	mg/L	< 0.002
Cobalt	mg/L	0.00465
Copper	mg/L	0.00415
Iron	mg/L	0.041
Lead	mg/L	< 0.0004
Lithium	mg/L	0.176
Magnesium	mg/L	67.3
Manganese	mg/L	0.338
Mercury	mg/L	< 0.00001

Molybdenum	mg/L	0.0111
Nickel	mg/L	0.0321
Selenium	mg/L	0.00027
Silicon	mg/L	3.55
Silver	mg/L	< 0.00004
Strontium	mg/L	2.86
Sulphur	mg/L	121
Thallium	mg/L	< 0.00002
Tin	mg/L	< 0.01
Titanium	mg/L	< 0.01
Uranium	mg/L	0.00617
Vanadium	mg/L	< 0.01
Zinc	mg/L	< 0.01
Zirconium	mg/L	0.00022

MEL-22	Sample date	10/3/2020
Parameter	Unit	
WQ01- Field Measured		
Conductivity	uS/cm	8362
Dissolved oxygen	mg/L	13.78
pH	-	7.64
Temperature	°C	1.3
WQ02- Conventional Parameters		
Hardness, as CaCO3 (D)	mg/L	1900
Hardness, as CaCO3 (T)	mg/L	1980
pH	pH units	7.73
Specific conductivity	umhos/cm	8200
Total alkalinity, as CaCO3	mg/L	98
Total organic carbon	mg/L	16

Total suspended solids	mg/L	6
Turbidity	NTU	2.1
WQ03- Major Ions		
Calcium	mg/L	518
Chloride	mg/L	2300
Cyanide	mg/L	0.02
Fluoride	mg/L	0.11
Magnesium	mg/L	147
Potassium	mg/L	61.3
Sodium	mg/L	874
Sulphate	mg/L	470
WQ04- Nutrients and Chlorophyll a		
Nitrate	mg/L	38.1
Nitrate + nitrite	mg/L	38.7
Nitrite	mg/L	0.526
Orthophosphate	mg/L	< 0.010
Total ammonia	mg/L	15
Total phosphorus	mg/L	< 0.020
WQ06- Total Metals		
Aluminum	mg/L	0.04
Antimony	mg/L	< 0.0025
Arsenic	mg/L	0.00692
Barium	mg/L	0.132
Beryllium	mg/L	< 0.0005
Bismuth	mg/L	< 0.005
Boron	mg/L	0.792
Cadmium	mg/L	0.000186
Calcium	mg/L	545
Chromium	mg/L	< 0.005
Cobalt	mg/L	0.0028
Copper	mg/L	0.0039

Iron	mg/L	0.201
Lead	mg/L	< 0.001
Lithium	mg/L	0.236
Magnesium	mg/L	151
Manganese	mg/L	0.502
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0071
Nickel	mg/L	0.0442
Potassium	mg/L	64.1
Selenium	mg/L	0.00084
Silicon	mg/L	2.18
Silver	mg/L	< 0.0001
Sodium	mg/L	938
Strontium	mg/L	9.27
Sulphur	mg/L	184
Thallium	mg/L	0.000078
Tin	mg/L	< 0.025
Titanium	mg/L	< 0.025
Uranium	mg/L	0.0105
Vanadium	mg/L	< 0.025
Zinc	mg/L	< 0.025
Zirconium	mg/L	< 0.0005
WQ07- Dissolved Metals		
Aluminum	mg/L	< 0.015
Antimony	mg/L	< 0.0025
Arsenic	mg/L	0.00468
Barium	mg/L	0.13
Beryllium	mg/L	< 0.0005
Bismuth	mg/L	< 0.005
Boron	mg/L	0.865
Cadmium	mg/L	0.000157

Calcium	mg/L	518
Chromium	mg/L	< 0.005
Cobalt	mg/L	0.0025
Copper	mg/L	0.0035
Iron	mg/L	0.041
Lead	mg/L	< 0.001
Lithium	mg/L	0.276
Magnesium	mg/L	147
Manganese	mg/L	0.458
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0069
Nickel	mg/L	0.0416
Selenium	mg/L	0.00083
Silicon	mg/L	2.19
Silver	mg/L	< 0.0001
Strontium	mg/L	9.29
Sulphur	mg/L	185
Thallium	mg/L	0.000086
Tin	mg/L	< 0.025
Titanium	mg/L	< 0.025
Uranium	mg/L	0.0101
Vanadium	mg/L	< 0.025
Zinc	mg/L	< 0.025
Zirconium	mg/L	< 0.0005

MEL-23	Sample date	10/3/2020
Parameter	Unit	
WQ01- Field Measured		
Conductivity	uS/cm	7269

Dissolved oxygen	mg/L	13.02
pH	-	7.78
Temperature	°C	1.8
WQ02- Conventional Parameters		
Hardness, as CaCO ₃ (D)	mg/L	1540
Hardness, as CaCO ₃ (T)	mg/L	1530
pH	pH units	7.91
Total alkalinity, as CaCO ₃	mg/L	220
Total suspended solids	mg/L	10
Turbidity	NTU	2.4
WQ03- Major Ions		
Calcium	mg/L	313
Chloride	mg/L	1700
Cyanide	mg/L	0.013
Fluoride	mg/L	0.28
Magnesium	mg/L	183
Potassium	mg/L	62.5
Sodium	mg/L	859
Sulphate	mg/L	880
WQ04- Nutrients and Chlorophyll a		
Nitrate	mg/L	19.1
Nitrate + nitrite	mg/L	19.5
Nitrite	mg/L	0.357
Orthophosphate	mg/L	< 0.010
Total ammonia	mg/L	9.8
Total phosphorus	mg/L	0.031
WQ06- Total Metals		
Aluminum	mg/L	0.16
Antimony	mg/L	0.0044
Arsenic	mg/L	0.0172
Barium	mg/L	0.113

Beryllium	mg/L	< 0.0002
Bismuth	mg/L	< 0.002
Boron	mg/L	1.45
Cadmium	mg/L	0.000123
Calcium	mg/L	310
Chromium	mg/L	< 0.002
Cobalt	mg/L	0.0158
Copper	mg/L	0.0088
Iron	mg/L	0.319
Lead	mg/L	0.00084
Lithium	mg/L	0.0541
Magnesium	mg/L	182
Manganese	mg/L	0.699
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0168
Nickel	mg/L	0.11
Potassium	mg/L	61.7
Selenium	mg/L	0.00192
Silicon	mg/L	4.5
Silver	mg/L	< 0.00004
Sodium	mg/L	879
Strontium	mg/L	2.67
Sulphur	mg/L	322
Thallium	mg/L	0.000043
Tin	mg/L	< 0.01
Titanium	mg/L	< 0.01
Uranium	mg/L	0.0367
Vanadium	mg/L	< 0.01
Zinc	mg/L	< 0.01
Zirconium	mg/L	0.00454
WQ07- Dissolved Metals		

Aluminum	mg/L	< 0.006
Antimony	mg/L	0.0047
Arsenic	mg/L	0.0157
Barium	mg/L	0.116
Beryllium	mg/L	< 0.0002
Bismuth	mg/L	< 0.002
Boron	mg/L	1.66
Cadmium	mg/L	0.000124
Calcium	mg/L	313
Chromium	mg/L	< 0.002
Cobalt	mg/L	0.0151
Copper	mg/L	0.00844
Iron	mg/L	0.061
Lead	mg/L	< 0.0004
Lithium	mg/L	0.0648
Magnesium	mg/L	183
Manganese	mg/L	0.705
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0167
Nickel	mg/L	0.109
Selenium	mg/L	0.00196
Silicon	mg/L	4.62
Silver	mg/L	< 0.00004
Strontium	mg/L	2.84
Sulphur	mg/L	337
Thallium	mg/L	0.000048
Tin	mg/L	< 0.01
Titanium	mg/L	< 0.01
Uranium	mg/L	0.0361
Vanadium	mg/L	< 0.01
Zinc	mg/L	0.015

Zirconium	mg/L	0.00426
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MEL-26		Sample date	10/4/2020
Parameter	Unit		
WQ01- Field Measured			
Conductivity	uS/cm	26050	
Dissolved oxygen	%	99.7	
Dissolved oxygen	mg/L	12.38	
pH	-	7.32	
Temperature	°C	2	
WQ02- Conventional Parameters			
Dissolved organic carbon	mg/L	11	
Dissolved Oxygen	mg/L	9.63	
Hardness, as CaCO3 (D)	mg/L	3760	
Hardness, as CaCO3 (T)	mg/L	3910	
pH (D)	pH units	6.45	
pH (T)	pH units	7.14	
Specific conductivity	umhos/cm	26000	
Specific conductivity	uS/cm	26000	
Total alkalinity, as CaCO3	mg/L	40	
Total dissolved solids	mg/L	25000	
Total organic carbon	mg/L	12	
Total suspended solids	mg/L	5	
Turbidity	NTU	0.6	
Volatile TSS	mg/L	4	
WQ03- Major Ions			
Bicarbonate, as CaCO3	mg/L	40	
Calcium (SW6010B)	mg/L	730	
Carbonate, as CaCO3	mg/L	< 1.0	

Chloride (E325.2)	mg/L	7600
Chloride (SM4500-CL-)	mg/L	8000
Cyanide	mg/L	0.044
Cyanide (free)	mg/L	0.032
Fluoride	mg/L	< 0.10
Magnesium (SW6010B)	mg/L	480
Potassium (E200.8)	mg/L	172
Potassium (SW6010B)	mg/L	180
Silica	mg/L	4.5
Sodium (SW6010B)	mg/L	4500
Sodium (E200.8)	mg/L	4030
Sulphate (E325.2)	mg/L	1100
Sulphate (E375.4)	mg/L	1000
WQ04- Nutrients and Chlorophyll a		
Nitrate	mg/L	49.9
Nitrate + nitrite	mg/L	51
Nitrite	mg/L	1.1
Orthophosphate	mg/L	< 0.010
Total ammonia	mg/L	34
Total Kjeldahl nitrogen	mg/L	35
Total phosphorus	mg/L	0.075
WQ06- Total Metals		
Aluminum	mg/L	0.396
Antimony	mg/L	< 0.005
Arsenic	mg/L	0.0045
Barium	mg/L	0.156
Beryllium	mg/L	< 0.001
Bismuth	mg/L	< 0.01
Boron	mg/L	1.11
Cadmium	mg/L	< 0.0001
Calcium	mg/L	764

Chromium	mg/L	< 0.01
Cobalt	mg/L	0.0044
Copper	mg/L	< 0.005
Iron	mg/L	< 0.1
Lead	mg/L	< 0.002
Lithium	mg/L	0.159
Magnesium	mg/L	487
Manganese	mg/L	0.269
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.013
Nickel	mg/L	0.034
Potassium	mg/L	180
Selenium	mg/L	0.0017
Silicon	mg/L	1.38
Silver	mg/L	< 0.0002
Sodium	mg/L	4190
Strontium	mg/L	16
Sulphur	mg/L	396
Thallium	mg/L	< 0.0001
Tin	mg/L	< 0.05
Titanium	mg/L	< 0.05
Uranium	mg/L	0.002
Vanadium	mg/L	< 0.05
Zinc	mg/L	< 0.05
Zirconium	mg/L	< 0.001
WQ07- Dissolved Metals		
Aluminum	mg/L	0.087
Antimony	mg/L	< 0.005
Arsenic	mg/L	0.0046
Barium	mg/L	0.148
Beryllium	mg/L	< 0.001

Bismuth	mg/L	< 0.01
Boron	mg/L	1.07
Cadmium	mg/L	< 0.0001
Calcium (E200.8)	mg/L	711
Chromium	mg/L	< 0.01
Cobalt	mg/L	0.0045
Copper	mg/L	0.003
Iron	mg/L	< 0.05
Lead	mg/L	< 0.002
Lithium	mg/L	0.17
Magnesium (E200.8)	mg/L	481
Manganese	mg/L	0.275
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.026
Nickel	mg/L	0.032
Selenium	mg/L	0.0015
Silicon	mg/L	1.34
Silver	mg/L	< 0.0002
Strontium	mg/L	16
Sulphur	mg/L	394
Thallium	mg/L	0.00015
Tin	mg/L	< 0.05
Titanium	mg/L	< 0.05
Uranium	mg/L	0.002
Vanadium	mg/L	< 0.05
Zinc	mg/L	< 0.05
Zirconium	mg/L	< 0.001
WQ08- Radionuclides		
Radium-226	Bq/l	0.16

MEL-SR1	Sample date	10/14/2020	10/14/2020	10/14/2020
	Sample name	MEL-SR1	MEL-SR7	MEL-SR11
Parameter	Unit			
WQ02- Conventional Parameters				
Hardness, as CaCO ₃ (T)	mg/L	381	400	215
pH	pH units	8.15	7.97	7.91
Total alkalinity, as CaCO ₃	mg/L	160	130	91
Total suspended solids	mg/L	5	2	1
Turbidity	NTU	0.7	0.8	0.5
WQ03- Major Ions				
Chloride	mg/L	130	190	120
Cyanide	mg/L	< 0.0050	< 0.0050	< 0.0050
Fluoride	mg/L	0.11	< 0.10	< 0.10
Sulphate	mg/L	190	220	93
WQ04- Nutrients and Chlorophyll a				
Nitrate	mg/L	0.26	0.57	< 0.10
Nitrate + nitrite	mg/L	0.26	0.57	< 0.10
Nitrite	mg/L	< 0.010	< 0.010	< 0.010
Orthophosphate	mg/L	< 0.010	< 0.010	< 0.010
Total ammonia	mg/L	< 0.050	0.26	0.21
Total phosphorus	mg/L	< 0.020	< 0.020	< 0.020
WQ05- General Organics				
Total oil and grease	mg/L	< 0.50	< 0.50	0.6
WQ06- Total Metals				
Aluminum	mg/L	0.207	0.0737	0.0338
Antimony	mg/L	< 0.0005	< 0.0005	< 0.0005
Arsenic	mg/L	0.00239	0.00674	0.00073
Barium	mg/L	0.0439	0.043	0.0437
Beryllium	mg/L	< 0.0001	< 0.0001	< 0.0001
Bismuth	mg/L	< 0.001	< 0.001	< 0.001

Boron	mg/L	0.053	0.062	< 0.05
Cadmium	mg/L	< 0.00001	0.00003	< 0.00001
Calcium	mg/L	118	119	66.2
Chromium	mg/L	0.0014	< 0.001	< 0.001
Cobalt	mg/L	0.00051	0.00203	< 0.0002
Copper	mg/L	0.00393	0.00624	0.00152
Iron	mg/L	0.371	0.137	0.116
Lead	mg/L	< 0.0002	< 0.0002	< 0.0002
Lithium	mg/L	0.0123	0.0138	0.0051
Magnesium	mg/L	21	25	12.2
Manganese	mg/L	0.0141	0.0198	0.0049
Mercury	mg/L	< 0.00001	< 0.00001	< 0.00001
Molybdenum	mg/L	0.0014	0.0011	< 0.001
Nickel	mg/L	0.0103	0.0137	0.0094
Potassium	mg/L	11	11.1	5.48
Selenium	mg/L	< 0.0001	0.00013	< 0.0001
Silicon	mg/L	2.07	1.76	1.14
Silver	mg/L	< 0.00002	< 0.00002	< 0.00002
Sodium	mg/L	66.5	88	60.9
Strontium	mg/L	0.598	0.714	0.284
Sulphur	mg/L	64.8	73	32.2
Thallium	mg/L	0.000011	0.000012	< 0.00001
Tin	mg/L	< 0.005	< 0.005	< 0.005
Titanium	mg/L	0.0106	< 0.005	< 0.005
Uranium	mg/L	0.003	0.0025	0.00037
Vanadium	mg/L	< 0.005	< 0.005	< 0.005
Zinc	mg/L	0.0115	0.0061	0.0089
Zirconium	mg/L	< 0.0001	< 0.0001	< 0.0001

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 November 10th 2020 the landfill contained approximately 18,214 m³ of material.

In October 2020, approximately 0.5 m³ of contaminated soil was transferred to the Type A Landfarm as a result of spills cleanup.

3.2 ORE

Approximately 119,548 tonnes of ore were processed through the Mill in October 2020.

3.3 WASTE ROCK STORAGE FACILITY

In October 2020, a total of 46,713 tonnes of waste rock was removed in the mine development process. 8,981 tonnes were used as underground dry rockfill. 19,808 tonnes was stockpiled for progressive closure cover.

3.4 TAILINGS

82,800 dry tonnes of filtered tailings were sent to the Tailing Storage Facility in October 2020. 36,748 tonnes of tailings were used for paste underground backfill.

SECTION 4 SPILL MANAGEMENT

4.1 INTERNAL AND REPORTABLE SPILLS

All spills reported internally (10) 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. 3 reportable spills occurred in October 2020.

Table 4.1: Summary of Agnico's Spill Reports in October 2020**Table 4.1: Summary of Agnico's Spill Reports in October 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
Thursday, October 02, 2020 1:00:00 AM	Ammonium nitrate	350.00	DYNO Laydown	A seacan containing bags of ammonium nitrate was punctured by heavy equipment causing approximately 350 kg of product to be released to the ground. The spill was initially reported as 400 kg. However, after weighing the remaining product inside the seacan, a more accurate estimate of 350 kg was calculated. The damage was discovered October 2nd and it is thought to have occurred during snow removal earlier this year.	Any spilled material would have likely been collected during snow removal and transported to a snow storage area. Material spilled inside the seacan was collected for use. Potentially contaminated gravel was scraped up using a bobcat and disposed of as hazmat. The damaged seacan was emptied and will no longer be used.
Tuesday, October 06, 2020 9:30:00 PM	Coolant	20.00	OP2	A coolant hose busted.	The engine was stopped and absorbant pads were used to clean the spill. The contaminated muck was put into a Quatrex bag and brought to the Oily-Solid Seacan near TIRI02.
Friday, October 09, 2020 6:00:00 PM	Diesel	20.00	Water Management Garage	An external diesel tank for a water pump (portable day tank) flipped onto its side during transport due to the heavy load not being properly secured. The level of the tank was high but not completely full.	A spotter was used for this task. and he intervened right away to flip the tank back upright. Absorbent spill pads were used to collect any liquid on the road, and the gravel was shoveled into pails and brought to the landfarm.
Saturday, October 10, 2020 10:00:00 AM	Fuel	80.00	Fuel Farm	While refueling the fuel truck, and trying to disconnect the loading fitting, a	The valve was closed and absorbant layers and material was used to clean up the spill.

				valve near the fitting wasn't properly closed and fuel present in the hoses came out.	They were placed in a quadrex bag.
Saturday, October 17, 2020 4:30:00 AM	Diesel Exhaust Fluid	800.00	Main Pad	Operator removed a tote of urea from a seacan. The forks were longer than the tote and punctured another tote which had already been removed.	After the tote was punctured, the operator quickly flipped it upside down to stop the entire tote emptying onto the ground. As the spill occurred on an industrial pad in the middle of site, any migration of the product would be contained within the pad. According to the SDS, urea is low risk to the environment. As the risk to the environment was very low, it was determined a recovery attempt would not be made in a high traffic area.
Tuesday, October 20, 2020 8:00:00 AM	0/40 Duron (Hydraulic Oil)	5.00	Outside of Dome 1 - (tractor park)	While a worker was moving a pail into back of tractor basket, the basket door closed causing the pail to tip over and leak some oil.	Some of the product was able to be soaked up with absorbent pads. The rest was scraped up using a shovel. This material (some oily gravel) was put into the designated Oily Solids quatrex bag in the Orbit Garant hazmat sorting station.
Tuesday, October 20, 2020 11:30:00 AM *	Treated Sewage Water	3,000.00	Retention tank at the south side of Explo Camp	The operator of the water truck failed to close the outlet valve on the truck after his previous discharge to CP1. Upon returning to the retention tank to retrieve another load, pumping was initiated, and the operator sat in the truck to wait for it to fill. Five minutes later, the operator noticed the issue and shut off the pump.	The water from the sewage treatment plant is sampled on a weekly basis (sample location MEL-7). The results from previous weeks (water chemistry and fecal coliforms) had all been below the effluent quality limits established in Part D, Section 11 of the 2BB-MEL1424 Licence. As this water met discharge requirements, excavating the tundra or building berms to recover a portion of the water would have caused unnecessary damage. The water was permitted to disperse naturally.

Wednesday, October 21, 2020 3:00:00 PM	Copper Sulfite	0.10	Temporary Chemical Storage	Copper sulfite was removed from a seacan and residual copper sulfite dust blew around onto snow causing snow to turn blue.	Snow with copper sulfite was removed and brought back into the Mill.
Wednesday, October 28, 2020 10:00:00 AM	Hydraulic oil	15.00	Base of Ore Silo	While the excavator was working a hydraulic hose broke, resulting in the release of hydraulic oil onto the ground.	The operator stopped the equipment quickly and stopped the leak. The contaminated material was cleaned up and brought to the landfarm.
Saturday, October 31, 2020 6:30:00 AM	Hydraulic oil	50.00	Portal 2 just on the Side the Dome	After parking the men carrier next to the dome at portal 2, a fitting broke between the shift and the oil escaped from the tank.	The spill was cleaned up using absorbent material and the contaminated material was disposed of adequately.

* This spill was reported under Water Licence 2BB-MEL1424