



**Meliadine Gold Mine
NWB 2AM-MEL1631
July 2023 Monthly Report**

Prepared for:

Nunavut Water Board

Prepared by:

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1. BACKGROUND

As required under Part I, Item 9 of amended 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 July 2023.

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 the monthly water usage in July 2023

Usage	Unit	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	2023 Total
MEL-11 ¹	m ³	36,021	37,240	43,452	40,082	44,346	38,080	47,136	-	-	-	-	-	286,357
Dust suppression ²	m ³	0	0	0	0	0	0	0	-	-	-	-	-	0
Dust suppression ³	m ³	0	0	0	0	0	264	2,080	-	-	-	-	-	2,344

In July, approximately 2080 m³ of contact water was used for dust suppression purposes on site, in areas captured by the Contact Water management facilities reporting back to CP1 (including haul roads and open pit areas).

2.2. DEWATERING ACTIVITIES

No dewatering activities took place during the month.

2.3. WATER DISCHARGE

Table 2.3 details monthly water discharge, including:

- discharge from the EWTP to Meliadine Lake via the Final Discharge Point (MEL-14);

¹ Camp, Mill, Dust suppression

² Water obtained along AWAR/Meliadine River

³ Reclaim water obtained from CP1 or other Contact Water management facilities and used for dust suppression on site

- discharge of treated saline effluent to Melvin Bay via the Final Discharge Point (MEL-26), and
- discharge from the Itivia fuel containment facility (MEL-25).

Table 2.3: Summary of the monthly water discharge in June 2023

Location	Unit	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	2023 Total
MEL-14	m ³	0	0	0	0	0	209,024	81,119	-	-	-	-	-	290,143
MEL-26	m ³	0	0	0	0	0	0	-	-	-	-	-	-	0
MEL-25	m ³	0	0	0	0	2,060	0	510	-	-	-	-	-	2,570

Discharge of treated effluent from the EWTP into Meliadine Lake via the Final Discharge Point (MEL-14) started on June 10th 2023.

2.4. 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 during the month.

As per the approved Landfill (Stage 4) Berm Raise Design Report and Monitoring station MEL-24 description Modification, water accumulated inside the landfill was pumped towards Pond H13 during the month, which is the current location seepage from the landfill flows towards.

2.5. SEWAGE TREATMENT PLANT

Table 2.5 details monthly discharge from the Sewage Treatment Plant (STP), including the treated wastewater discharge to CP1 and sludge removed and disposed of in the WRSF.

Table 2.5: Summary of the monthly disposal/discharge from the STP in July 2023

		JAN	FEB	MAR	APR	MAY	JUN		JUL		AUG	SEP	OCT	NOV	DEC	2023 Total
Wastewater Discharge (m ³)		5,141	4,305	4,522	4,519	4,764	4,754		5,095		-	-	-	-	-	33,100
Sewage Sludge	Amount (m ³)	17	7	20.5	18	21	19	1	17	5	-	-	-	-	-	125.5
	Disposal Location	WRSF 1	WRSF 3	WRSF 3	WRSF 3	WRSF 3	WRSF 1	WRSF 3	WRSF 3	WRSF 1	-	-	-	-	-	NA

2.6. MONITORING ANALYTICAL DATA

Nineteen (19) samples related to the Water Licence were taken during the month. The analytical results are presented in Appendix. No exceedances occurred in July 2023.

3. MATERIAL MANAGEMENT

3.1. LANDFILL / LANDFARM

Table 3.1 details quarterly Landfill and Landfarm survey results, as well as the amount of material placed in the Landfarm every month.

Table 3.1: Summary of the monthly disposal in the Landfarm and quarterly survey volumes of Landfill and Landfarm

Location	Unit	Q1			Q2			Q3			Q4			2023 Total
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Landfill (Survey)	m ³	25,666			23,663			22,118			-			-
Landfarm (Survey)	m ³	-			143			272			-			-
Landfarm ⁴	m ³	0	41.5	3	5.5	46	0.25	0.07	-	-	-	-	-	96.4

⁴ Amount of contaminated solid material (soil) placed in the Landfarm or lined sorting area.

3.2. ORE, WASTE ROCK STORAGE FACILITY, TAILINGS

Table 3.2 details monthly material management, including processed ore, waste rock, and tailings.

Table 3.2: Summary of the monthly material management in July 2023

Material (tonnes)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Cumulative 2023
Processed Ore		155,514	150,876	171,369	149,029	172,955	137,629	166,668	-	-	-	-	-	1,104,040
Waste Rock	Removed from open pit mining	50,606	42,866	114,885	159,630	287,354	249,975	372,511	-	-	-	-	-	1,277,827
	Removed from underground mining	67,109	51,780	70,674	73,390	81,439	56,214	63,078	-	-	-	-	-	463,684
	Used as underground dry rockfill	51,834	48,024	35,017	18,200	44,224	42,578	29,540	-	-	-	-	-	269,417
Tailings	Send to TSF	133,227	121,499	132,300	110,473	125,285	112,728	124,335	-	-	-	-	-	861,847
	Used as paste underground backfill	22,287	29,377	39,069	38,556	45,670	24,901	42,333	-	-	-	-	-	242,193

4. SPILL MANAGEMENT

4.1 INTERNAL AND REPORTABLE SPILLS

Spills reported internally (4) are listed in the table 4.1 and were managed according to Agnico Eagle'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. No reportable spill or exceedance occurred during the month.

Table 4.1: Summary of Agnico Eagle's Spill Reports in July 2023

Date and time of occurrence	Contaminant	Estimated quantity	Unit	Exact location of incident	Description of incident	Describe immediate corrective actions
Saturday, July 08, 2023 11:00:00 AM	Hydraulic Oil	3	L	WRSF3 crusher pad	A hydraulic line leaked on a water truck, resulting in a 3L hydraulic oil spill.	The equipment was stopped. Absorbent pads were used and disposed of in a quatex bag. Contaminated materials were collected and disposed of in the Landfarm.
Sunday, July 09, 2023 5:00:00 AM	Non-Contaminated Water	30	L	Under Kitchen	During corrective inspections being conducted on the kitchen plumbing, it was found that the drain line for the dish pit was weeping. Upon insulation being open to investigate further, it was noted that the PVC piping had disconnected from the elbow feeding from the kitchen drain. This water did not touch the grey water lines and did not touch any sewage. The	Absorbent pads were used to collect the spill and were disposed of in the incinerator since it contained food waste. Insulation was completely removed and piping was re-glued to the elbow.

					elbow contained only water with vegetable debris.	
Sunday, July 09, 2023 3:30:00 PM	Hydraulic Oil	20	L	TIR01b	While drilling, drillers observed a leak in a hydraulic line resulting in a 20 L hydraulic oil spill.	The equipment was stopped. Contaminated material was put in empty pail and disposed of in the Landfarm.
Wednesday, July 19, 2023 9:30:00 PM	Hydraulic Oil	10	L	TIRI01C-10050MS10	The hose of a drill disconnected from his fitting resulting in a 10 L hydraulic oil spill.	The equipment was stopped. Contaminated material was collected and disposed of in a quatrex bag.

Appendix – Monitoring Analytical Data

MEL-11		7/3/2023
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.32
Turbidity	NTU	0.3
Specific conductivity	umhos/cm	100
Hardness, as CaCO ₃	mg/L	24.5
Total alkalinity, as CaCO ₃	mg/L	17
Carbonate, as CaCO ₃	mg/L	< 1.0
Bicarbonate, as CaCO ₃	mg/L	17
TDS	mg/L	65
TDS, calculated	mg/L	45
TSS	mg/L	1
Total organic carbon	mg/L	3.3
Dissolved organic carbon	mg/L	3.3
WQ03- Major Ions		
Chloride	mg/L	12
Cyanide	mg/L	< 0.00050
Cyanide (free)	mg/L	0.0028
Cyanide (WAD)	mg/L	< 0.00050
Silica	mg/L	0.45
Sulfate	mg/L	5.5
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	< 0.050
Nitrate (as N)	mg/L	< 0.10
Nitrite (as N)	mg/L	< 0.010
Total Kjeldahl nitrogen	mg/L	0.16
Total phosphorus	mg/L	< 0.020
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	< 0.0030
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.00059
Barium	mg/L	0.0079
Beryllium	mg/L	< 0.00010
Boron	mg/L	< 0.050
Cadmium	mg/L	< 0.000010
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00072
Iron	mg/L	0.027
Lead	mg/L	< 0.00020
Lithium	mg/L	< 0.0020

Manganese	mg/L	0.0053
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	< 0.0010
Selenium	mg/L	< 0.00010
Silver	mg/L	< 0.000020
Strontium	mg/L	0.0421
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
WQ07- Dissolved Metals		
Aluminum	mg/L	< 0.0030
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.00054
Barium	mg/L	0.0090
Beryllium	mg/L	< 0.00010
Boron	mg/L	< 0.050
Cadmium	mg/L	< 0.000010
Calcium (Dissolved)	mg/L	8.65
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00073
Iron	mg/L	0.0107
Lead	mg/L	< 0.00020
Lithium	mg/L	< 0.0020
Magnesium (Dissolved)	mg/L	1.57
Manganese	mg/L	< 0.0010
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	< 0.0010
Potassium (Dissolved)	mg/L	0.992
Selenium	mg/L	< 0.00010
Silver	mg/L	< 0.000020
Sodium (Dissolved)	mg/L	6.30
Strontium	mg/L	0.0472
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
WQ10- 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

MEL-12		7/17/2023
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.83
Turbidity	NTU	0.4
Specific conductivity	umhos/cm	2000
Hardness, as CaCO ₃	mg/L	405
Total alkalinity, as CaCO ₃	mg/L	77
TDS	mg/L	1290
TDS, calculated	mg/L	1100
TSS	mg/L	8
WQ03- Major Ions		
Chloride	mg/L	460
Cyanide	mg/L	0.00096
Fluoride	mg/L	< 0.10
Silica	mg/L	< 0.050
Sulfate	mg/L	190
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	0.17
Nitrate (as N)	mg/L	5.86
Nitrite (as N)	mg/L	0.200
Total phosphorus	mg/L	0.11
Orthophosphate (P)	mg/L	0.047
WQ06- Total Metals		
Aluminum	mg/L	0.207
Antimony	mg/L	0.00091
Arsenic	mg/L	0.0261
Barium	mg/L	0.0459
Cadmium	mg/L	0.000018
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00429

Iron	mg/L	0.251
Lead	mg/L	0.00075
Lithium	mg/L	0.0270
Manganese	mg/L	0.0719
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0054
Nickel	mg/L	0.0048
Selenium	mg/L	0.00076
Silver	mg/L	< 0.000020
Thallium	mg/L	0.000027
Zirconium	mg/L	0.00012
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	111
Magnesium (Dissolved)	mg/L	33.7
Potassium (Dissolved)	mg/L	19.0
Sodium (Dissolved)	mg/L	212

MEL-13		7/16/2023
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.33
Dissolved Oxygen	mg/L	10.5
Turbidity	NTU	0.3
Specific conductivity	umhos/cm	110
Hardness, as CaCO ₃	mg/L	25.4
Total alkalinity, as CaCO ₃	mg/L	22
Carbonate, as CaCO ₃	mg/L	< 1.0
Bicarbonate, as CaCO ₃	mg/L	22
TDS	mg/L	85
TDS, calculated	mg/L	51
TSS	mg/L	1
Total organic carbon	mg/L	3.6
Dissolved organic carbon	mg/L	3.4
WQ03- Major Ions		
Chloride	mg/L	13
Cyanide	mg/L	< 0.00050
Cyanide (free)	mg/L	0.0050
Cyanide (WAD)	mg/L	< 0.00050
Silica	mg/L	0.48
Sulfate	mg/L	6.2
WQ04- Nutrients and Chlorophyll a		

Ammonia Nitrogen (as N)	mg/L	< 0.050
Nitrate (as N)	mg/L	< 0.10
Nitrite (as N)	mg/L	< 0.010
Total Kjeldahl nitrogen	mg/L	0.24
Total phosphorus	mg/L	0.021
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	0.0052
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.00042
Barium	mg/L	0.0077
Beryllium	mg/L	< 0.00010
Boron	mg/L	< 0.050
Cadmium	mg/L	< 0.000010
Chromium	mg/L	< 0.0010
Cobalt	mg/L	< 0.00020
Copper	mg/L	0.00077
Iron	mg/L	0.023
Lead	mg/L	< 0.00020
Lithium	mg/L	< 0.0020
Manganese	mg/L	0.0044
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	< 0.0010
Selenium	mg/L	< 0.00010
Silver	mg/L	< 0.000020
Strontium	mg/L	0.0445
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
WQ07- Dissolved Metals		
Aluminum	mg/L	< 0.0030
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.00044
Barium	mg/L	0.0085
Beryllium	mg/L	< 0.00010
Boron	mg/L	< 0.050
Cadmium	mg/L	< 0.000010
Calcium (Dissolved)	mg/L	8.93
Chromium	mg/L	< 0.0010
Cobalt	mg/L	< 0.00020

Copper	mg/L	0.00073
Iron	mg/L	0.0081
Lead	mg/L	< 0.00020
Lithium	mg/L	< 0.0020
Magnesium (Dissolved)	mg/L	1.60
Manganese	mg/L	< 0.0010
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	< 0.0010
Potassium (Dissolved)	mg/L	1.06
Selenium	mg/L	< 0.00010
Silicon	mg/L	0.24
Silver	mg/L	< 0.000020
Sodium (Dissolved)	mg/L	6.87
Strontium	mg/L	0.0537
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
WQ08- Radionuclides		
Radium-226	Bq/l	< 0.0050
WQ10- 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

MEL-14						Monthly Average (N)	7/3/2023	7/10/2023	7/17/2023
Parameter	MDMER MAX GRAB	MDMER MAX MONTHLY MEAN	2AM- MEL1631 MEL-14 MAX GRAB	2AM- MEL1631 MEL-14 MAX MEAN	Unit				
pH	9.5	9.5	9.5	9.5	pH units	7.675	7.51	7.69	7.8
Dissolved Oxygen					mg/L	9.48	8.98	10.6	9.23
Turbidity					NTU	0.5	0.4	0.4	0.6
Specific conductivity					umhos/cm	1975	1800	2000	2100
Hardness, as CaCO ₃					mg/L	365.75	358	357	381
Total alkalinity, as CaCO ₃					mg/L	71	68	68	72
Carbonate, as CaCO ₃					mg/L	1	< 1.0	< 1.0	< 1.0
Bicarbonate, as CaCO ₃					mg/L	71	68	68	72
TDS			4500	3500	mg/L	1250	1160	1230	1310
TDS, calculated			4500	3500	mg/L	1027.5	910	1000	1100
TSS	30	15	30	15	mg/L	2.5	3	2	3
Total organic carbon					mg/L	7.925	8.1	7.1	8.2
Dissolved organic carbon					mg/L	7.2	7.3	6.6	6.8
Chloride					mg/L	417.5	320	410	480
Cyanide	1	0.5	1	0.5	mg/L	0.0008575	0.00056	0.0007	0.00122
Cyanide (free)					mg/L	0.0051	< 0.0020	0.0076	0.0035
Cyanide (WAD)					mg/L	0.0005775	< 0.00050	0.00081	< 0.00050
Silica					mg/L	0.12875	0.2	0.13	0.099
Sulfate					mg/L	185	180	180	190
Ammonia Nitrogen (as N)			18	14	mg/L	0.25	0.41	0.24	0.16
Nitrate (as N)					mg/L	5.79	5.89	5.97	5.77
Nitrite (as N)					mg/L	0.17525	0.188	0.154	0.251
Total Kjeldahl nitrogen					mg/L	0.9425	0.79	0.78	1.2

Total phosphorus			4	2	mg/L	0.04275	0.033	0.055	0.045
Orthophosphate (P)					mg/L		0.014	< 0.010	< 0.010
Aluminum			3	2	mg/L	0.25475	0.252	0.232	0.288
Antimony					mg/L	0.000835	0.00086	0.00083	0.00087
Arsenic	0.6	0.3	0.6	0.3	mg/L	0.0053575	0.00587	0.00398	0.00536
Barium					mg/L	0.0409	0.0412	0.0397	0.043
Beryllium					mg/L	0.0001	< 0.00010	< 0.00010	< 0.00010
Boron					mg/L	0.1875	0.176	0.194	0.202
Cadmium					mg/L	0.0000165	0.00002	0.000015	0.000014
Chromium					mg/L	0.001	< 0.0010	< 0.0010	< 0.0010
Cobalt					mg/L	0.00099	0.00109	0.00099	0.00097
Copper	0.6	0.3	0.4	0.2	mg/L	0.00282	0.00284	0.00254	0.00304
Iron					mg/L	0.045	0.019	0.019	0.017
Lead	0.2	0.1	0.2	0.1	mg/L	0.0002	< 0.00020	< 0.00020	< 0.00020
Lithium					mg/L	0.023625	0.0211	0.0238	0.0259
Manganese					mg/L	0.042375	0.0555	0.0503	0.0336
Mercury					mg/L	0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum					mg/L	0.0048	0.0048	0.0045	0.0051
Nickel	1	0.5	1	0.5	mg/L	0.0037	0.0042	0.0037	0.0035
Selenium					mg/L	0.000695	0.00074	0.00068	0.00067
Silver					mg/L	0.00002	< 0.000020	< 0.000020	< 0.000020
Strontium					mg/L	1.22	1.14	1.18	1.29
Thallium					mg/L	0.000021	0.000024	0.000016	0.000023
Tin					mg/L	0.005	< 0.0050	< 0.0050	< 0.0050
Titanium					mg/L	0.005	< 0.0050	< 0.0050	< 0.0050
Uranium					mg/L	0.0008575	0.0008	0.00045	0.00102
Vanadium					mg/L	0.005	< 0.0050	< 0.0050	< 0.0050
Zinc	1	0.5	0.8	0.4	mg/L	0.005	< 0.0050	< 0.0050	< 0.0050
Aluminum			3	2	mg/L	0.1186	0.112	0.0734	0.161
Antimony					mg/L	0.000955	0.001	0.00096	0.00094
Arsenic	0.6	0.3	0.6	0.3	mg/L	0.00465	0.00546	0.00369	0.00481
Barium					mg/L	0.0464	0.0449	0.0476	0.0464

Beryllium					mg/L	0.0001	< 0.00010	< 0.00010	< 0.00010
Boron					mg/L	0.2065	0.191	0.22	0.2
Cadmium					mg/L	0.00001975	0.000024	0.000018	0.000018
Calcium (Dissolved)					mg/L	113.25	110	115	111
Chromium					mg/L	0.001	< 0.0010	< 0.0010	< 0.0010
Cobalt					mg/L	0.00109	0.00121	0.00109	0.00103
Copper	0.6	0.3	0.4	0.2	mg/L	0.00302	0.00296	0.00279	0.00312
Iron					mg/L	0.028475	0.0095	0.0071	0.0065
Lead	0.2	0.1	0.2	0.1	mg/L	0.0002	< 0.00020	< 0.00020	< 0.00020
Lithium					mg/L	0.025325	0.0214	0.0283	0.0248
Magnesium (Dissolved)					mg/L	31.1	29.4	30.4	34
Manganese					mg/L	0.0458	0.0601	0.0552	0.0338
Mercury					mg/L	0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum					mg/L	0.00535	0.0051	0.0053	0.0056
Nickel	1	0.5	1	0.5	mg/L	0.0039	0.0043	0.0039	0.0037
Potassium (Dissolved)					mg/L	17.725	16.2	17.8	18.8
Selenium					mg/L	0.000785	0.00083	0.0008	0.00082
Silver					mg/L	0.00002	< 0.000020	< 0.000020	< 0.000020
Sodium (Dissolved)					mg/L	196.25	182	193	212
Strontium					mg/L	1.385	1.28	1.37	1.49
Thallium					mg/L	0.000024	0.000026	0.00002	0.000022
Tin					mg/L	0.005	< 0.0050	< 0.0050	< 0.0050
Titanium					mg/L	0.005	< 0.0050	< 0.0050	< 0.0050
Uranium					mg/L	0.000895	0.00081	0.00047	0.0011
Vanadium					mg/L	0.005	< 0.0050	< 0.0050	< 0.0050
Zinc	1	0.5	0.8	0.4	mg/L	0.005	< 0.0050	< 0.0050	< 0.0050
Radium-226	1.11	0.37			Bq/l	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Daphnia 48 h static acute test - LC50					%		-	>100	-
Daphnia 48 h Static Acute Test - EC50					%		-	>100	-

LC50 (96h) - Rainbow Trout					%		-	>100	-
Benzene					mg/L	0.0002	< 0.00020	< 0.00020	< 0.00020
Ethylbenzene					mg/L	0.0002	< 0.00020	< 0.00020	< 0.00020
Toluene					mg/L	0.00022	0.00028	< 0.00020	< 0.00020
Xylenes					mg/L	0.0004	< 0.00040	< 0.00040	< 0.00040
m,p-Xylenes					mg/L	0.0004	< 0.00040	< 0.00040	< 0.00040
o-Xylene					mg/L	0.0002	< 0.00020	< 0.00020	< 0.00020
F1 (C6-C10)-BTX					mg/L	0.025	< 0.025	< 0.025	< 0.025
F1 (C6-C10)					mg/L	0.025	< 0.025	< 0.025	< 0.025
F2 (C10-C16)					mg/L	0.1	< 0.1	< 0.1	< 0.1
F3 (C16-C34)					mg/L	0.2	< 0.2	< 0.2	< 0.2
F4 (C34-C50)					mg/L		< 0.2	< 0.2	< 0.2

MEL-15		7/9/2023
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.54
Turbidity	NTU	0.4
Specific conductivity	umhos/cm	120
Hardness, as CaCO ₃	mg/L	37.4
Total alkalinity, as CaCO ₃	mg/L	40
Carbonate, as CaCO ₃	mg/L	< 1.0
Bicarbonate, as CaCO ₃	mg/L	40
TDS	mg/L	70
TDS, calculated	mg/L	58
TSS	mg/L	< 1
Total organic carbon	mg/L	4.2
Dissolved organic carbon	mg/L	4.4
WQ03- Major Ions		
Chloride	mg/L	7.2
Cyanide	mg/L	< 0.00050
Cyanide (free)	mg/L	0.0038
Cyanide (WAD)	mg/L	< 0.00050
Silica	mg/L	0.58
Sulfate	mg/L	4.4
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	< 0.050
Nitrate (as N)	mg/L	< 0.10
Nitrite (as N)	mg/L	< 0.010
Total Kjeldahl nitrogen	mg/L	0.30
Total phosphorus	mg/L	< 0.020
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	0.0034
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.00136
Barium	mg/L	0.0096
Beryllium	mg/L	< 0.00010
Boron	mg/L	< 0.050
Cadmium	mg/L	< 0.000010
Chromium	mg/L	< 0.0010
Cobalt	mg/L	< 0.00020
Copper	mg/L	0.00050
Iron	mg/L	0.060

Lead	mg/L	< 0.00020
Lithium	mg/L	< 0.0020
Manganese	mg/L	0.0094
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	< 0.0010
Selenium	mg/L	< 0.00010
Silver	mg/L	< 0.000020
Strontium	mg/L	0.0628
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
WQ07- Dissolved Metals		
Aluminum	mg/L	< 0.0030
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.00150
Barium	mg/L	0.0113
Beryllium	mg/L	< 0.00010
Boron	mg/L	< 0.050
Cadmium	mg/L	< 0.000010
Calcium (Dissolved)	mg/L	15.4
Chromium	mg/L	< 0.0010
Cobalt	mg/L	< 0.00020
Copper	mg/L	0.00061
Iron	mg/L	0.0402
Lead	mg/L	< 0.00020
Lithium	mg/L	< 0.0020
Magnesium (Dissolved)	mg/L	1.73
Manganese	mg/L	0.0024
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	< 0.0010
Potassium (Dissolved)	mg/L	1.03
Selenium	mg/L	< 0.00010
Silver	mg/L	< 0.000020
Sodium (Dissolved)	mg/L	4.47
Strontium	mg/L	0.0766
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

MEL-16		7/9/2023
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.45
Turbidity	NTU	0.4
Specific conductivity	umhos/cm	130
Hardness, as CaCO ₃	mg/L	39.7
Total alkalinity, as CaCO ₃	mg/L	32
Carbonate, as CaCO ₃	mg/L	< 1.0
Bicarbonate, as CaCO ₃	mg/L	32
TDS	mg/L	65
TDS, calculated	mg/L	57
TSS	mg/L	3
Total organic carbon	mg/L	3.9
Dissolved organic carbon	mg/L	3.9
WQ03- Major Ions		
Chloride	mg/L	12
Cyanide	mg/L	< 0.00050
Cyanide (free)	mg/L	< 0.0020
Cyanide (WAD)	mg/L	< 0.00050
Silica	mg/L	0.19
Sulfate	mg/L	4.0
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	< 0.050
Nitrate (as N)	mg/L	< 0.10
Nitrite (as N)	mg/L	< 0.010
Total Kjeldahl nitrogen	mg/L	0.23
Total phosphorus	mg/L	< 0.020
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	0.0086
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.00616
Barium	mg/L	0.0181
Beryllium	mg/L	< 0.00010
Boron	mg/L	< 0.050
Cadmium	mg/L	< 0.000010
Chromium	mg/L	< 0.0010

Cobalt	mg/L	< 0.00020
Copper	mg/L	0.00091
Iron	mg/L	0.084
Lead	mg/L	< 0.00020
Lithium	mg/L	< 0.0020
Manganese	mg/L	0.0090
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	< 0.0010
Selenium	mg/L	< 0.00010
Silver	mg/L	< 0.000020
Strontium	mg/L	0.0675
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
WQ07- Dissolved Metals		
Aluminum	mg/L	0.0039
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.00594
Barium	mg/L	0.0210
Beryllium	mg/L	< 0.00010
Boron	mg/L	< 0.050
Cadmium	mg/L	< 0.000010
Calcium (Dissolved)	mg/L	14.8
Chromium	mg/L	< 0.0010
Cobalt	mg/L	< 0.00020
Copper	mg/L	0.00097
Iron	mg/L	0.0415
Lead	mg/L	< 0.00020
Lithium	mg/L	< 0.0020
Magnesium (Dissolved)	mg/L	2.00
Manganese	mg/L	0.0032
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	< 0.0010
Potassium (Dissolved)	mg/L	1.24
Selenium	mg/L	< 0.00010
Silver	mg/L	< 0.000020
Sodium (Dissolved)	mg/L	4.13
Strontium	mg/L	0.0779
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

MEL-17		7/9/2023
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.73
Turbidity	NTU	1.2
Specific conductivity	umhos/cm	340
Hardness, as CaCO ₃	mg/L	111
Total alkalinity, as CaCO ₃	mg/L	60
Carbonate, as CaCO ₃	mg/L	< 1.0
Bicarbonate, as CaCO ₃	mg/L	60
TDS	mg/L	240
TDS, calculated	mg/L	180
TSS	mg/L	10
Total organic carbon	mg/L	12
Dissolved organic carbon	mg/L	11
WQ03- Major Ions		
Chloride	mg/L	42
Cyanide	mg/L	< 0.00050
Cyanide (free)	mg/L	0.0028
Cyanide (WAD)	mg/L	0.00064
Silica	mg/L	0.73
Sulfate	mg/L	38
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	< 0.050
Nitrate (as N)	mg/L	< 0.10
Nitrite (as N)	mg/L	< 0.010
Total Kjeldahl nitrogen	mg/L	0.72
Total phosphorus	mg/L	< 0.020
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	0.0072
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.00128
Barium	mg/L	0.0332
Beryllium	mg/L	< 0.00010

Boron	mg/L	< 0.050
Cadmium	mg/L	< 0.000010
Chromium	mg/L	< 0.0010
Cobalt	mg/L	0.00020
Copper	mg/L	0.00118
Iron	mg/L	0.361
Lead	mg/L	< 0.00020
Lithium	mg/L	0.0046
Manganese	mg/L	0.111
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	0.0023
Selenium	mg/L	< 0.00010
Silver	mg/L	< 0.000020
Strontium	mg/L	0.264
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
WQ07- Dissolved Metals		
Aluminum	mg/L	< 0.0030
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.00125
Barium	mg/L	0.0363
Beryllium	mg/L	< 0.00010
Boron	mg/L	< 0.050
Cadmium	mg/L	< 0.000010
Calcium (Dissolved)	mg/L	42.1
Chromium	mg/L	< 0.0010
Cobalt	mg/L	< 0.00020
Copper	mg/L	0.00126
Iron	mg/L	0.175
Lead	mg/L	< 0.00020
Lithium	mg/L	0.0051
Magnesium (Dissolved)	mg/L	5.05
Manganese	mg/L	0.0589
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	0.0021
Potassium (Dissolved)	mg/L	2.68
Selenium	mg/L	< 0.00010
Silver	mg/L	< 0.000020

Sodium (Dissolved)	mg/L	13.7
Strontium	mg/L	0.297
Thallium	mg/L	< 0.000010
Tin	mg/L	< 0.0050
Titanium	mg/L	< 0.0050
Uranium	mg/L	0.00011
Vanadium	mg/L	< 0.0050
Zinc	mg/L	< 0.0050

MEL-18		7/9/2023
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.51
Turbidity	NTU	0.5
Specific conductivity	umhos/cm	180
Hardness, as CaCO3	mg/L	56.8
Total alkalinity, as CaCO3	mg/L	41
Carbonate, as CaCO3	mg/L	< 1.0
Bicarbonate, as CaCO3	mg/L	40
TDS	mg/L	105
TDS, calculated	mg/L	84
TSS	mg/L	2
Total organic carbon	mg/L	4.2
Dissolved organic carbon	mg/L	3.9
WQ03- Major Ions		
Chloride	mg/L	20
Cyanide	mg/L	< 0.00050
Cyanide (free)	mg/L	0.01
Cyanide (WAD)	mg/L	< 0.00050
Silica	mg/L	0.28
Sulfate	mg/L	7.7
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	< 0.050
Nitrate (as N)	mg/L	< 0.10
Nitrite (as N)	mg/L	< 0.010
Total Kjeldahl nitrogen	mg/L	0.30
Total phosphorus	mg/L	0.043
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	0.0050
Antimony	mg/L	< 0.00050

Arsenic	mg/L	0.00274
Barium	mg/L	0.0154
Beryllium	mg/L	< 0.00010
Boron	mg/L	< 0.050
Cadmium	mg/L	< 0.000010
Chromium	mg/L	< 0.0010
Cobalt	mg/L	< 0.00020
Copper	mg/L	0.00067
Iron	mg/L	0.077
Lead	mg/L	< 0.00020
Lithium	mg/L	0.0073
Manganese	mg/L	0.0111
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	< 0.0010
Selenium	mg/L	< 0.00010
Silver	mg/L	< 0.000020
Strontium	mg/L	0.139
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
WQ07- Dissolved Metals		
Aluminum	mg/L	< 0.0030
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.00248
Barium	mg/L	0.0174
Beryllium	mg/L	< 0.00010
Boron	mg/L	< 0.050
Cadmium	mg/L	< 0.000010
Calcium (Dissolved)	mg/L	21.7
Chromium	mg/L	< 0.0010
Cobalt	mg/L	< 0.00020
Copper	mg/L	0.00078
Iron	mg/L	0.0358
Lead	mg/L	< 0.00020
Lithium	mg/L	0.0081
Magnesium (Dissolved)	mg/L	2.87
Manganese	mg/L	0.0020
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	< 0.0010

Potassium (Dissolved)	mg/L	1.36
Selenium	mg/L	< 0.00010
Silver	mg/L	< 0.000020
Sodium (Dissolved)	mg/L	6.10
Strontium	mg/L	0.159
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

MEL-19		7/9/2023
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.90
Turbidity	NTU	0.8
Hardness, as CaCO ₃	mg/L	653
Total alkalinity, as CaCO ₃	mg/L	87
TDS	mg/L	2440
TDS, calculated	mg/L	2300
TSS	mg/L	3
WQ03- Major Ions		
Chloride	mg/L	990
Cyanide	mg/L	0.00126
Fluoride	mg/L	0.14
Silica	mg/L	0.77
Sulfate	mg/L	400
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	1.9
Nitrate (as N)	mg/L	7.93
Nitrite (as N)	mg/L	0.331
Total phosphorus	mg/L	< 0.020
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	0.0384
Antimony	mg/L	0.0030
Arsenic	mg/L	0.0108
Barium	mg/L	0.0684
Beryllium	mg/L	< 0.00020
Boron	mg/L	< 0.10
Cadmium	mg/L	0.000068

Chromium	mg/L	< 0.0020
Cobalt	mg/L	0.00313
Copper	mg/L	0.0036
Iron	mg/L	0.045
Lead	mg/L	< 0.00040
Lithium	mg/L	0.0081
Manganese	mg/L	0.0650
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0040
Nickel	mg/L	0.0360
Selenium	mg/L	0.00104
Silver	mg/L	< 0.000040
Strontium	mg/L	1.08
Thallium	mg/L	0.000021
Tin	mg/L	< 0.010
Titanium	mg/L	< 0.010
Uranium	mg/L	0.00930
Vanadium	mg/L	< 0.010
Zinc	mg/L	< 0.010
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	186
Magnesium (Dissolved)	mg/L	72.5
Potassium (Dissolved)	mg/L	31.8
Sodium (Dissolved)	mg/L	511

MEL-20		7/9/2023
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.88
Turbidity	NTU	1.9
Specific conductivity	umhos/cm	6500
Hardness, as CaCO ₃	mg/L	1080
Total alkalinity, as CaCO ₃	mg/L	120
TDS	mg/L	4060
TDS, calculated	mg/L	3800
TSS	mg/L	17
WQ03- Major Ions		
Chloride	mg/L	1500
Cyanide	mg/L	0.00883
Cyanide (free)	mg/L	0.0068
Cyanide (WAD)	mg/L	0.0036
Silica	mg/L	6.1
Sulfate	mg/L	710

WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	21
Nitrate (as N)	mg/L	65.0
Nitrite (as N)	mg/L	1.55
Total phosphorus	mg/L	0.039
Orthophosphate (P)	mg/L	0.027
WQ06- Total Metals		
Aluminum	mg/L	0.097
Arsenic	mg/L	0.152
Barium	mg/L	0.0992
Cadmium	mg/L	0.000277
Chromium	mg/L	< 0.0050
Copper	mg/L	0.0117
Iron	mg/L	0.314
Lead	mg/L	0.0067
Manganese	mg/L	0.846
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0101
Nickel	mg/L	0.0749
Selenium	mg/L	0.00663
Silver	mg/L	< 0.00010
Thallium	mg/L	< 0.000050
Zinc	mg/L	< 0.025
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	330
Magnesium (Dissolved)	mg/L	113
Potassium (Dissolved)	mg/L	52.8
Sodium (Dissolved)	mg/L	776

MEL-21		7/9/2023
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	8.06
Turbidity	NTU	1.6
Hardness, as CaCO ₃	mg/L	660
Total alkalinity, as CaCO ₃	mg/L	110
TDS	mg/L	1970
TDS, calculated	mg/L	1900
TSS	mg/L	6
WQ03- Major Ions		
Chloride	mg/L	650
Cyanide	mg/L	0.00171
Fluoride	mg/L	0.18
Silica	mg/L	3.1

Sulfate	mg/L	430
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	1.4
Nitrate (as N)	mg/L	14.9
Nitrite (as N)	mg/L	0.430
Total phosphorus	mg/L	< 0.020
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	0.0761
Arsenic	mg/L	0.0454
Barium	mg/L	0.0624
Cadmium	mg/L	0.000081
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00474
Iron	mg/L	0.136
Lead	mg/L	0.00156
Manganese	mg/L	0.321
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0112
Nickel	mg/L	0.0295
Selenium	mg/L	0.00100
Silver	mg/L	< 0.000020
Thallium	mg/L	0.000019
Zinc	mg/L	< 0.0050
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	203
Magnesium (Dissolved)	mg/L	65.5
Potassium (Dissolved)	mg/L	29.9
Sodium (Dissolved)	mg/L	342

MEL-22		7/9/2023
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.74
Turbidity	NTU	0.4
Hardness, as CaCO ₃	mg/L	1330
Total alkalinity, as CaCO ₃	mg/L	83
TDS	mg/L	3610
TDS, calculated	mg/L	3200
TSS	mg/L	6
WQ03- Major Ions		
Chloride	mg/L	1600
Cyanide	mg/L	0.00091
Fluoride	mg/L	0.12

Silica	mg/L	9.6
Sulfate	mg/L	430
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	1.2
Nitrate (as N)	mg/L	6.21
Nitrite (as N)	mg/L	0.069
Total phosphorus	mg/L	0.059
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	0.0326
Arsenic	mg/L	0.00355
Barium	mg/L	0.0946
Cadmium	mg/L	0.000028
Chromium	mg/L	< 0.0020
Copper	mg/L	0.0031
Iron	mg/L	0.184
Lead	mg/L	< 0.00040
Manganese	mg/L	0.129
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0052
Nickel	mg/L	0.0191
Selenium	mg/L	0.00031
Silver	mg/L	< 0.000040
Thallium	mg/L	0.000035
Zinc	mg/L	< 0.010
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	424
Magnesium (Dissolved)	mg/L	104
Potassium (Dissolved)	mg/L	42.2
Sodium (Dissolved)	mg/L	533

MEL-23		7/9/2023
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.76
Turbidity	NTU	0.8
Hardness, as CaCO ₃	mg/L	303
Total alkalinity, as CaCO ₃	mg/L	76
TDS	mg/L	1020
TDS, calculated	mg/L	950
TSS	mg/L	16
WQ03- Major Ions		
Chloride	mg/L	340
Cyanide	mg/L	< 0.00050

Fluoride	mg/L	0.15
Silica	mg/L	1.1
Sulfate	mg/L	230
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	0.37
Nitrate (as N)	mg/L	4.53
Nitrite (as N)	mg/L	0.067
Total phosphorus	mg/L	0.021
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	0.181
Arsenic	mg/L	0.0139
Barium	mg/L	0.0253
Cadmium	mg/L	0.000035
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00252
Iron	mg/L	0.345
Lead	mg/L	0.00059
Manganese	mg/L	0.0709
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0051
Nickel	mg/L	0.0289
Selenium	mg/L	0.00055
Silver	mg/L	< 0.000020
Thallium	mg/L	0.000014
Zinc	mg/L	< 0.0050
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	72.6
Magnesium (Dissolved)	mg/L	36.4
Potassium (Dissolved)	mg/L	17.0
Sodium (Dissolved)	mg/L	193

MEL-24		7/28/2023
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.27
Turbidity	NTU	5.9
Hardness, as CaCO ₃	mg/L	1240
Total alkalinity, as CaCO ₃	mg/L	110
TDS	mg/L	3320
TDS, calculated	mg/L	3300
TSS	mg/L	27
WQ03- Major Ions		
Chloride	mg/L	860

Cyanide	mg/L	0.0975
Fluoride	mg/L	0.16
Silica	mg/L	11
Sulfate	mg/L	1300
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	36
Nitrate (as N)	mg/L	< 0.10
Nitrite (as N)	mg/L	0.022
Nitrate + nitrite (as N)	mg/L	< 0.10
Total phosphorus	mg/L	0.78
Orthophosphate (P)	mg/L	0.022
WQ06- Total Metals		
Aluminum	mg/L	0.165
Antimony	mg/L	0.0118
Arsenic	mg/L	0.161
Barium	mg/L	0.0582
Cadmium	mg/L	0.000167
Chromium	mg/L	0.0066
Copper	mg/L	0.0249
Iron	mg/L	0.267
Lead	mg/L	0.00443
Manganese	mg/L	0.0389
Mercury	mg/L	< 0.00010
Molybdenum	mg/L	0.145
Nickel	mg/L	0.0256
Selenium	mg/L	0.00838
Silver	mg/L	0.000066
Thallium	mg/L	< 0.000020
Zinc	mg/L	0.078
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	481
Magnesium (Dissolved)	mg/L	9.46
Potassium (Dissolved)	mg/L	148
Sodium (Dissolved)	mg/L	416

MEL-25				7/14/2023
Parameter	MEL-25 LIMITS MAX GRAB	MEL-25 LIMITS MAX MEAN	Unit	
WQ02- Conventional Parameters				
pH	9.5	9.5	pH units	8.15
TSS	30	15	mg/L	< 1

WQ04- Nutrients and Chlorophyll a				
Ammonia Nitrogen (as N)			mg/L	< 0.050
WQ05- General Organics				
Total oil and grease	5	5	mg/L	1.1
WQ06- Total Metals				
Arsenic			mg/L	0.00114
Copper			mg/L	0.00228
Lead	0.1	0.1	mg/L	< 0.00020
Nickel			mg/L	0.0021
WQ10- Volatile Organics				
Benzene	0.37	0.37	mg/L	< 0.00020
Ethylbenzene	0.09	0.09	mg/L	< 0.00020
Toluene	0.002	0.002	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