



**Meliadine Gold Mine
NWB 2AM-MEL1631
June 2025 Monthly Report**

Prepared for:
Nunavut Water Board

Prepared by:
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SECTION 1 • BACKGROUND

As required under Part I, Item 8 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 June 2025.

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 the monthly water usage in 2025

Usage	Unit	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	2025 Total
MEL-11 ¹	m ³	40,096	44,128	50,163	46,201	53,972	33,147	-	-	-	-	-	-	234,560
Dust suppression ²	m ³	0	0	0	0	0	0	-	-	-	-	-	-	0
Dust suppression ³	m ³	0	0	0	0	174	665	-	-	-	-	-	-	839

2.2 DEWATERING ACTIVITIES

One (1) pond (A8) was dewatered to Meliadine Lake and Contact Water management facilities (Collection Pond 1) during the month as part of the permitted fish salvage.

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);
- 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).

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

Table 2.3: Summary of the monthly water discharge in 2025

Location	Unit	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	2025 Total
MEL-14	m ³	0	0	0	0	0	325,572	-	-	-	-	-	-	325,572
MEL-26	m ³	0	0	0	0	0	0	-	-	-	-	-	-	0
MEL-25	m ³	0	0	0	0	0	0	-	-	-	-	-	-	0

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 is pumped towards Pond H13, 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 2025

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	2025 Total
Wastewater Discharge (m ³)		4,973	4,474	4,930.4	4,876.5	5015.9	4,823	-	-	-	-	-	-	29,092.8
Sewage Sludge	Amount (m ³)	12	10	12.40	11.20	9.4	10.5	-	-	-	-	-	-	65.50
	Disposal Location	WRSF3	WRSF3	WRSF3	WRSF3	WRSF3	WRSF3	-	-	-	-	-	-	-

2.6 MONITORING ANALYTICAL DATA

Twenty-two (22) samples related to the Water Licence were taken during the month. The analytical results are presented in Appendix.

SECTION 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			2025 Total
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Landfill (Survey)	m ³	33,105			27,277			-			-			-
Landfarm (Survey)	m ³	849 ⁴			712			-			-			-
Landfarm ⁵	m ³	2	0.8	23.85	17.8	80.01	3	-	-	-	-	-	-	127.46

⁴ From landfarm survey conducted in November 2024. Surveys of the Landfarm are generally not conducted during the winter months, as the presence of snow would not allow a representative survey of the soil quantity.

⁵ 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 2025

Material (tonnes)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Cumulative 2025
Processed Ore		158,386	189,690	209,731	196,665	226,886	121,619	-	-	-	-	-	-	1,102,977
Waste Rock	Removed from open pit mining	382,704	369,748	457,569	528,808	610,631	242,664	-	-	-	-	-	-	2,592,124
	Removed from underground mining	99,563	87,430	89,629	80,238	50,097	65,115	-	-	-	-	-	-	472,072
	Used as underground dry rockfill	44,117	47,159	56,034	47,094	50,097	48,215	-	-	-	-	-	-	292,716
Tailings	Send to TSF	128,762	161,625	176,249	169,507	192,605	106,322	-	-	-	-	-	-	935,070
	Used as paste underground backfill	29,624	28,065	33,482	27,158	34,281	15,297	-	-	-	-	-	-	167,907

SECTION 4 SPILL MANAGEMENT

4.1 INTERNAL AND REPORTABLE SPILLS

Spills reported internally 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. One (1) reportable spills occurred during the month (Refer to the gray shading in Table 4.1).

Table 4.1: Summary of Agnico Eagle's Spill Reports during the month

Date and time of occurrence	Contaminant	Estimated quantity	Exact location of incident	Description of incident	Describe immediate corrective actions
Sunday, June 01, 2025 10:30:00 PM	Copper sulfate	2L	Mill Reagent Pad	While retrieving copper sulphate bags from the sea container to transport them into the mill, an employee experienced a minor spill. One of the bags tipped over on the Manitou fork rack and broke open, causing a small amount of copper sulphate to spill at the front of the container. The employee promptly secured the broken bag inside a quatrex bag for safe transport into the mill. During the process, some copper sulphate spilled onto the pallet and a small amount was lost along the way.	Contaminated material was scrapped and disposed in the Process Plant.
Monday, June 02, 2025 7:00:00 AM	Hydraulic oil	40L	Warehouse Pad 1	While positioning a container on the second level, a hydraulic hose at the rear of the boom ruptured, causing a 40L hydraulic oil spill.	Spill pads were deployed to clean up the spill and disposed of in the appropriate bin. Contaminated material was scrapped and disposed of at Landfarm.
Monday, June 02, 2025 1:30:00 PM	Diesel fuel	10L	Itivia fuel farm	After filling the fuel totes, a worker observed a wet area near the storage container. Upon opening the container, they discovered that the bottom cap on one of the totes was not fully	Spill pads were deployed to clean up the spill and disposed of in the appropriate bin. Contaminated material was scrapped and disposed of in a hazmat bin.

				secured causing a 10L diesel fuel spill.	
Thursday, June 05, 2025 3:30:00 AM	Coolant	50L	OP2 extention	While performing routine tasks at the OP2 extension, the operator identified a coolant line failure on the loader causing a 50L coolant spill.	Spill pads were deployed to clean up the spill and disposed of in the appropriate bin. Contaminated material was scrapped and disposed of in a hazmat bin.
Friday, June 06, 2025 2:00:00 AM	Process Water	200L	Process plant south yard	200 L of Process water was released onto the industrial pad, at the south yard of the Process Plant. During a mill shutdown, process water was added to the Vertimill to clean it. During the cleaning process, the sump pump that was controlling the water level inside the Vertimill failed due to a power outage. The Vertimill then began overflowing inside the Process Plant. The garage door leading to the south yard was left open and some of the process water escaped the building, resulting in the spill.	When a Process Plant operator noticed the overflow and spill, they immediately notified their supervisor and stopped the flow of process water going into the Vertimill, which in turn stopped the spill. The ground surface outside of the Process Plant south yard garage door was scrapped and collected to be reintroduced into the mill feed. The water inside the Process Plant was recovered and reintroduced into the system through the sump.
Saturday, June 14, 2025 7:00:00 AM	Glycol	30L	Crusher pad	During crusher repairs, approximately 30L of glycol spilled from an HVAC pipe due to a faulty valve.	Spill pads were deployed to clean up the spill and disposed of in the appropriate bin. Contaminated material was scrapped and disposed of in a hazmat bin.
Sunday, June 15, 2025 4:00:00 AM	Hydraulic oil	5L	TIR01	The operator observed oil drips on the ground and traced the source to a damaged hose on a haul truck.	Spill pads were deployed to clean up the spill and disposed of in the appropriate bin.
Sunday, June 15, 2025 11:30:00 AM	Hydraulic oil	1L	MSB parking lot	1L of hydraulic oil spill discovered at the MSB parking lot during a site tour.	Spill pads were deployed to clean up the spill and disposed of in the appropriate bin.
Sunday, June 29, 2025 9:00:00 AM	Hydraulic oil	50L	Warehouse Pad 1	A tote of oil tipped over inside a shipping container. While attempting to reposition it, the operator caught	Spill pads were deployed to clean up the spill and disposed of in the appropriate bin. Contaminated

				the tote on an internal locking mechanism, puncturing it and causing a 50L hydraulic oil spill.	material was scrapped and disposed of at Landfarm.
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Appendix – Monitoring Analytical Data

MEL-11		6/2/2025
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.46
Turbidity	NTU	0.3
Conductivity	ms/cm	0.168
Hardness, as CaCO ₃	mg/L	46.3
Total alkalinity, as CaCO ₃	mg/L	26
Carbonate, as CaCO ₃	mg/L	<1.0
Bicarbonate, as CaCO ₃	mg/L	26
TDS	mg/L	100
TDS, calculated	mg/L	80
TSS	mg/L	<1
Dissolved organic carbon	mg/L	4.5
Total organic carbon	mg/L	4.7
WQ03- Major Ions		
Chloride	mg/L	<1.0
Cyanide	mg/L	0.00060
Cyanide (free)	mg/L	<0.00050
Cyanide (WAD)	mg/L	<0.00050
Silica	mg/L	1.4
Sulfate	mg/L	<0.50
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 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	<0.00010
Barium	mg/L	<0.0010
Beryllium	mg/L	<0.00010
Boron	mg/L	<0.050
Cadmium	mg/L	<0.000010
Chromium	mg/L	<0.0010
Copper	mg/L	<0.00050
Iron	mg/L	<0.010
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
Silver	mg/L	<0.000020
Strontium	mg/L	<0.0010
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	<0.00010
Barium	mg/L	<0.0010
Beryllium	mg/L	<0.00010
Boron	mg/L	<0.050
Cadmium	mg/L	<0.000010
Calcium (Dissolved)	mg/L	-
Chromium	mg/L	<0.0010
Copper	mg/L	<0.00020
Iron	mg/L	<0.0050
Lead	mg/L	<0.00020
Lithium	mg/L	<0.0020
Magnesium (Dissolved)	mg/L	<0.050
Manganese	mg/L	<0.0010
Mercury	mg/L	<0.00001
Molybdenum	mg/L	<0.0010
Nickel	mg/L	<0.0010
Potassium (Dissolved)	mg/L	<0.050
Selenium	mg/L	<0.00010
Silver	mg/L	<0.000020
Sodium (Dissolved)	mg/L	<0.050
Strontium	mg/L	<0.0010
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	<0.000020
Ethylbenzene	mg/L	<0.000020
Toluene	mg/L	<0.000020
Xylenes	mg/L	<0.000040
m,p-Xylenes	mg/L	<0.000040
o-Xylene	mg/L	<0.000020
F1 (C6-C10)-BTX	mg/L	<0.025
F1 (C6-C10)	mg/L	<0.025
F2 (C10-C16)	mg/L	<0.090
F3 (C16-C34)	mg/L	0.2
F4 (C34-C50)	mg/L	<0.2

MEL-12		6/16/2025
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.93
Dissolved Oxygen	%	105.0
Turbidity	NTU	2.7
Conductivity	ms/cm	1.18
Hardness, as CaCO ₃	mg/L	241
Total alkalinity, as CaCO ₃	mg/L	47
TDS	mg/L	830
TDS, calculated	mg/L	640
TSS	mg/L	7
Total organic carbon	mg/L	6.1
WQ03- Major Ions		
Chloride	mg/L	220
Cyanide	mg/L	0.00421
Fluoride	mg/L	< 0.10
Silica	mg/L	1.2
Sulfate	mg/L	140
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	0.16
Nitrate (as N)	mg/L	6.72
Nitrite (as N)	mg/L	0.115
Total phosphorus	mg/L	0.066
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	0.139
Arsenic	mg/L	0.0256
Barium	mg/L	0.0220

Cadmium	mg/L	0.000023
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00274
Iron	mg/L	0.218
Lead	mg/L	0.00080
Manganese	mg/L	0.192
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0041
Nickel	mg/L	0.0045
Selenium	mg/L	0.00046
Silver	mg/L	< 0.000020
Thallium	mg/L	< 0.000010
Titanium	mg/L	< 0.0050
Zinc	mg/L	0.0053
WQ07- Dissolved Metals		
Aluminum	mg/L	0.0880
Arsenic	mg/L	0.0196
Barium	mg/L	0.0131
Cadmium	mg/L	< 0.000010
Calcium (Dissolved)	mg/L	66.2
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00237
Iron	mg/L	0.0541
Lead	mg/L	< 0.00020
Magnesium (Dissolved)	mg/L	20.1
Manganese	mg/L	0.0783
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0039
Nickel	mg/L	0.0040
Potassium (Dissolved)	mg/L	11.4
Selenium	mg/L	0.00042
Silver	mg/L	< 0.000020
Sodium (Dissolved)	mg/L	120
Thallium	mg/L	< 0.000010
Zinc	mg/L	< 0.0050

MEL-14		6/14/2025	6/16/2025	6/23/2025	6/30/2025
Parameter	Unit				
WQ02- Conventional Parameters					
pH	pH units	7.35	7.38	7.55	7.55
Dissolved Oxygen	%	9.84	10.1	91.7	110.8

Turbidity	NTU	0.5	1	0.9	0.8
Conductivity	ms/cm	1.19	1.19	1.20	1.21
Hardness, as CaCO ₃	mg/L	249	241	244	266
Total alkalinity, as CaCO ₃	mg/L	30	31	45	42
Carbonate, as CaCO ₃	mg/L	<1.0	<1.0	< 1.0	< 1.0
Bicarbonate, as CaCO ₃	mg/L	30	31	45	42
TDS	mg/L	735	740	655	735
TDS, calculated	mg/L	640	640	670	660
TSS	mg/L	3	3	3	4
Total organic carbon	mg/L	3.7	3.7	4.2	4.5
Dissolved organic carbon	mg/L	3.3	3.2	3.7	4.0
WQ03- Major Ions					
Chloride	mg/L	240	240	240	250
Cyanide	mg/L	0.00512	0.00417	0.00241	0.00155
Cyanide (free)	mg/L	0.00369	0.00312	0.00191	0.00137
Cyanide (WAD)	mg/L	0.0037	0.0029	0.0017	0.0013
Silica	mg/L	1.2	1.1	< 0.050	0.053
Sulfate	mg/L	140	140	140	140
WQ04- Nutrients and Chlorophyll a					
Ammonia Nitrogen (as N)	mg/L	<0.050	<0.050	0.19	0.11
Un-Ionized Ammonia, calculated	mg/L	<0.0004	<0.0004	0.0018	0.0006
Nitrate (as N)	mg/L	6.59	7.20	6.47	6.02
Nitrite (as N)	mg/L	0.100	0.113	0.117	0.130
Total Kjeldahl nitrogen	mg/L	0.71	0.76	0.85	0.45
Total phosphorus	mg/L	<0.020	0.023	< 0.020	0.021
Orthophosphate (P)	mg/L	<0.010	<0.010	< 0.010	< 0.010
WQ06- Total Metals					
Aluminum	mg/L	0.480	0.454	0.531	0.854
Antimony	mg/L	0.00075	0.00071	0.00088	0.00101
Arsenic	mg/L	0.00551	0.00587	0.00876	0.00793
Barium	mg/L	0.0197	0.0186	0.0224	0.0249
Beryllium	mg/L	<0.00010	<0.00010	< 0.00010	< 0.00010
Boron	mg/L	0.112	0.112	0.098	0.123
Cadmium	mg/L	<0.000010	<0.000010	< 0.000010	< 0.000010
Chromium	mg/L	<0.0010	<0.0010	< 0.0010	< 0.0010
Cobalt	mg/L	0.00103	0.00101	0.00106	0.00109
Copper	mg/L	0.00148	0.00142	0.00175	0.00197
Iron	mg/L	0.029	0.023	0.026	0.020
Lead	mg/L	<0.00020	<0.00020	< 0.00020	< 0.00020
Lithium	mg/L	0.0123	0.0121	0.0115	0.0134
Manganese	mg/L	0.0586	0.0519	0.0264	0.0151
Mercury	mg/L	<0.00001	<0.00001	< 0.00001	< 0.00001
Molybdenum	mg/L	0.0038	0.0037	0.0040	0.0046
Nickel	mg/L	0.0035	0.0033	0.0037	0.0036

Selenium	mg/L	0.00038	0.00041	0.00040	0.00045
Silver	mg/L	<0.000020	<0.000020	< 0.000020	< 0.000020
Strontium	mg/L	0.709	0.689	0.729	0.722
Thallium	mg/L	<0.000010	<0.000010	0.000010	0.000013
Tin	mg/L	<0.0050	<0.0050	< 0.0050	< 0.0050
Titanium	mg/L	<0.0050	<0.0050	< 0.0050	< 0.0050
Uranium	mg/L	0.00020	<0.00010	0.00062	0.00060
Vanadium	mg/L	<0.0050	<0.0050	< 0.0050	< 0.0050
Zinc	mg/L	<0.0050	<0.0050	< 0.0050	< 0.0050
WQ07- Dissolved Metals					
Aluminum	mg/L	0.0785	0.0911	0.202	0.240
Antimony	mg/L	0.00076	0.00078	0.00087	0.00096
Arsenic	mg/L	0.00382	0.00464	0.00705	0.00485
Barium	mg/L	0.0183	0.0176	0.0213	0.0239
Beryllium	mg/L	<0.00010	<0.00010	< 0.00010	< 0.00010
Boron	mg/L	0.111	0.118	0.106	0.109
Cadmium	mg/L	<0.000010	<0.000010	< 0.000010	< 0.000010
Calcium (Dissolved)	mg/L	65.7	68	68.3	69.1
Chromium	mg/L	<0.0010	<0.0010	< 0.0010	< 0.0010
Cobalt	mg/L	0.00102	0.00106	0.00111	0.00103
Copper	mg/L	0.00144	0.00149	0.00182	0.00171
Iron	mg/L	0.0129	0.0094	< 0.0050	0.0073
Lead	mg/L	<0.00020	<0.00020	< 0.00020	< 0.00020
Lithium	mg/L	0.0132	0.0131	0.0113	0.0120
Magnesium (Dissolved)	mg/L	18.6	20	18.1	19.6
Manganese	mg/L	0.0520	0.0474	0.0176	0.0087
Mercury	mg/L	<0.00001	<0.00001	< 0.00001	< 0.00001
Molybdenum	mg/L	0.0039	0.0039	0.0041	0.0044
Nickel	mg/L	0.0036	0.0034	0.0037	0.0033
Potassium (Dissolved)	mg/L	10.7	11	10.4	11.2
Selenium	mg/L	0.00038	0.00039	0.00042	0.00044
Silver	mg/L	<0.000020	<0.000020	< 0.000020	< 0.000020
Sodium (Dissolved)	mg/L	112	120	104	115
Strontium	mg/L	0.669	0.684	0.736	0.790
Thallium	mg/L	<0.000010	<0.000010	< 0.000010	0.000012
Tin	mg/L	<0.0050	<0.0050	< 0.0050	< 0.0050
Titanium	mg/L	<0.0050	<0.0050	< 0.0050	< 0.0050
Uranium	mg/L	<0.00010	<0.00010	0.00053	0.00046
Vanadium	mg/L	<0.0050	<0.0050	< 0.0050	< 0.0050
Zinc	mg/L	<0.0050	<0.0050	< 0.0050	< 0.0050
WQ08- Radionuclides					
Radium-226	Bq/l	<0.0050	<0.0050	< 0.0050	< 0.0050
WQ09- Toxicity					

Daphnia 48 h static acute test - LC50	%	-	>100%	-	-
Daphnia 48 h Static Acute Test - EC50	%	-	>100%	-	-
LC50 (96h) - Rainbow Trout	%	-	>100%	-	-
WQ10- Volatile Organics					
Benzene	mg/L	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Ethylbenzene	mg/L	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Toluene	mg/L	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Xylenes	mg/L	< 0.00040	< 0.00040	< 0.00040	< 0.00040
m,p-Xylenes	mg/L	< 0.00040	< 0.00040	< 0.00040	< 0.00040
o-Xylene	mg/L	< 0.00020	< 0.00020	< 0.00020	< 0.00020
F1 (C6-C10)-BTEX	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	< 0.09	< 0.09	< 0.09	< 0.09
F3 (C16-C34)	mg/L	< 0.2	< 0.2	< 0.2	< 0.2
F4 (C34-C50)	mg/L	< 0.2	< 0.2	< 0.2	< 0.2

MEL-15		6/15/2025
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.76
Dissolved Oxygen	%	-
Turbidity	NTU	0.5
Conductivity	ms/cm	0.164
Hardness, as CaCO3	mg/L	56.3
Total alkalinity, as CaCO3	mg/L	42
Carbonate, as CaCO3	mg/L	< 1.0
Bicarbonate, as CaCO3	mg/L	42
TDS	mg/L	100
TDS, calculated	mg/L	82
TSS	mg/L	<1
Total organic carbon	mg/L	5.0
Dissolved organic carbon	mg/L	4.7
WQ03- Major Ions		
Chloride	mg/L	13
Cyanide	mg/L	0.00090
Cyanide (free)	mg/L	<0.00050
Cyanide (WAD)	mg/L	<0.00050
Silica	mg/L	1.4
Sulfate	mg/L	15

WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	0.063
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	<0.020
Orthophosphate (P)	mg/L	<0.010
WQ06- Total Metals		
Aluminum	mg/L	0.0053
Antimony	mg/L	<0.00050
Arsenic	mg/L	0.00404
Barium	mg/L	0.0173
Beryllium	mg/L	<0.00010
Boron	mg/L	<0.050
Cadmium	mg/L	<0.000010
Chromium	mg/L	<0.0010
Copper	mg/L	0.00061
Iron	mg/L	0.088
Lead	mg/L	<0.00020
Lithium	mg/L	<0.0020
Manganese	mg/L	0.0155
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	0.0976
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	0.00343
Barium	mg/L	0.0186
Beryllium	mg/L	<0.00010
Boron	mg/L	<0.050
Cadmium	mg/L	<0.000010
Calcium (Dissolved)	mg/L	19.8
Chromium	mg/L	<0.0010

Copper	mg/L	0.00075
Iron	mg/L	0.0588
Lead	mg/L	<0.00020
Lithium	mg/L	<0.0020
Magnesium (Dissolved)	mg/L	2.32
Manganese	mg/L	0.0132
Mercury	mg/L	<0.00001
Molybdenum	mg/L	<0.0010
Nickel	mg/L	0.0011
Potassium (Dissolved)	mg/L	1.19
Selenium	mg/L	<0.00010
Silver	mg/L	<0.000020
Sodium (Dissolved)	mg/L	1.12
Strontium	mg/L	0.0984
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		6/15/2025
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.60
Turbidity	NTU	1.0
Conductivity	ms/cm	0.150
Hardness, as CaCO ₃	mg/L	74.1
Total alkalinity, as CaCO ₃	mg/L	35
Carbonate, as CaCO ₃	mg/L	<1.0
Bicarbonate, as CaCO ₃	mg/L	35
TDS	mg/L	95
TDS, calculated	mg/L	71
TSS	mg/L	3
Total organic carbon	mg/L	3.4
Dissolved organic carbon	mg/L	3.6
WQ03- Major Ions		
Chloride	mg/L	16

Cyanide	mg/L	<0.00050
Cyanide (free)	mg/L	0.00052
Cyanide (WAD)	mg/L	<0.00050
Silica	mg/L	0.74
Sulfate	mg/L	8.1
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	0.23
Nitrate (as N)	mg/L	<0.10
Nitrite (as N)	mg/L	<0.010
Total Kjeldahl nitrogen	mg/L	0.33
Total phosphorus	mg/L	<0.020
Orthophosphate (P)	mg/L	<0.010
WQ06- Total Metals		
Aluminum	mg/L	0.0127
Antimony	mg/L	<0.00050
Arsenic	mg/L	0.00913
Barium	mg/L	0.0249
Beryllium	mg/L	<0.00010
Boron	mg/L	<0.050
Cadmium	mg/L	<0.000010
Chromium	mg/L	<0.0010
Copper	mg/L	0.00074
Iron	mg/L	0.206
Lead	mg/L	<0.00020
Lithium	mg/L	<0.0020
Manganese	mg/L	0.0311
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	0.0831
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	0.00561
Barium	mg/L	0.0261

Beryllium	mg/L	<0.00010
Boron	mg/L	<0.050
Cadmium	mg/L	<0.000010
Calcium (Dissolved)	mg/L	16.7
Chromium	mg/L	<0.0010
Copper	mg/L	0.00078
Iron	mg/L	0.0630
Lead	mg/L	<0.00020
Lithium	mg/L	<0.0020
Magnesium (Dissolved)	mg/L	2.30
Manganese	mg/L	0.0281
Mercury	mg/L	<0.00001
Molybdenum	mg/L	<0.0010
Nickel	mg/L	<0.0010
Potassium (Dissolved)	mg/L	1.29
Selenium	mg/L	<0.00010
Silver	mg/L	<0.000020
Sodium (Dissolved)	mg/L	5.53
Strontium	mg/L	0.0818
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		6/15/2025
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.85
Dissolved Oxygen	%	108.1
Turbidity	NTU	0.8
Conductivity	ms/cm	0.357
Hardness, as CaCO ₃	mg/L	113
Total alkalinity, as CaCO ₃	mg/L	46
Carbonate, as CaCO ₃	mg/L	< 1.0
Bicarbonate, as CaCO ₃	mg/L	46
TDS	mg/L	240
TDS, calculated	mg/L	190
TSS	mg/L	< 1
Total organic carbon	mg/L	7.1

Dissolved organic carbon	mg/L	7.3
WQ03- Major Ions		
Chloride	mg/L	41
Cyanide	mg/L	0.00057
Cyanide (free)	mg/L	0.00067
Cyanide (WAD)	mg/L	0.00050
Silica	mg/L	0.80
Sulfate	mg/L	61
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	0.48
Total phosphorus	mg/L	< 0.020
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	0.0061
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.00187
Barium	mg/L	0.0357
Beryllium	mg/L	< 0.00010
Boron	mg/L	< 0.050
Cadmium	mg/L	< 0.000010
Calcium (total)	mg/L	36.6
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00102
Iron	mg/L	0.218
Lead	mg/L	< 0.00020
Lithium	mg/L	0.0035
Magnesium (total)	mg/L	5.32
Manganese	mg/L	0.0364
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	0.0017
Potassium (total)	mg/L	2.62
Selenium	mg/L	< 0.00010
Silver	mg/L	< 0.000020
Sodium (total)	mg/L	16.0
Strontium	mg/L	0.272
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	0.0036
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.00168
Barium	mg/L	0.0363
Beryllium	mg/L	< 0.00010
Boron	mg/L	< 0.050
Cadmium	mg/L	< 0.000010
Calcium (Dissolved)	mg/L	38.2
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00113
Iron	mg/L	0.145
Lead	mg/L	< 0.00020
Lithium	mg/L	0.0040
Magnesium (Dissolved)	mg/L	5.62
Manganese	mg/L	0.0307
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	0.0018
Potassium (Dissolved)	mg/L	2.75
Selenium	mg/L	< 0.00010
Silver	mg/L	< 0.000020
Sodium (Dissolved)	mg/L	17.1
Strontium	mg/L	0.244
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-18		6/15/2025
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.75
Turbidity	NTU	0.6
Conductivity	ms/cm	0.211
Hardness, as CaCO3	mg/L	74.1

Total alkalinity, as CaCO ₃	mg/L	39
Carbonate, as CaCO ₃	mg/L	<1.0
Bicarbonate, as CaCO ₃	mg/L	38
TDS	mg/L	150
TDS, calculated	mg/L	100
TSS	mg/L	2
Total organic carbon	mg/L	3.7
Dissolved organic carbon	mg/L	3.6
WQ03- Major Ions		
Chloride	mg/L	27
Cyanide	mg/L	<0.00050
Cyanide (free)	mg/L	<0.00050
Cyanide (WAD)	mg/L	<0.00050
Silica	mg/L	-
Sulfate	mg/L	17
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	0.099
Nitrate (as N)	mg/L	<0.10
Nitrite (as N)	mg/L	<0.010
Total phosphorus	mg/L	<0.010
Orthophosphate (P)	mg/L	7.68
WQ06- Total Metals		
Aluminum	mg/L	0.0144
Antimony	mg/L	<0.00050
Arsenic	mg/L	0.00534
Barium	mg/L	0.0229
Beryllium	mg/L	<0.00010
Boron	mg/L	<0.050
Cadmium	mg/L	<0.000010
Chromium	mg/L	<0.0010
Copper	mg/L	0.00063
Iron	mg/L	0.139
Lead	mg/L	<0.00020
Lithium	mg/L	0.0071
Manganese	mg/L	0.0223
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	0.195

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	0.00346
Barium	mg/L	0.0223
Beryllium	mg/L	<0.00010
Boron	mg/L	<0.050
Cadmium	mg/L	<0.000010
Calcium (Dissolved)	mg/L	24.2
Chromium	mg/L	<0.0010
Copper	mg/L	0.00065
Iron	mg/L	0.0600
Lead	mg/L	<0.00020
Lithium	mg/L	0.0074
Magnesium (Dissolved)	mg/L	3.26
Manganese	mg/L	0.0170
Mercury	mg/L	<0.00001
Molybdenum	mg/L	<0.0010
Nickel	mg/L	<0.0010
Potassium (Dissolved)	mg/L	1.46
Selenium	mg/L	<0.00010
Silver	mg/L	<0.000020
Sodium (Dissolved)	mg/L	7.41
Strontium	mg/L	0.169
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		6/15/2025
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.73
Dissolved Oxygen	%	93.5

Turbidity	NTU	5.1
Hardness, as CaCO ₃	mg/L	154
Total alkalinity, as CaCO ₃	mg/L	41
TDS	mg/L	485
TDS, calculated	mg/L	440
TSS	mg/L	6
WQ03- Major Ions		
Chloride	mg/L	160
Cyanide	mg/L	0.00052
Fluoride	mg/L	< 0.10
Silica	mg/L	0.96
Sulfate	mg/L	100
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	0.49
Nitrate (as N)	mg/L	2.46
Nitrite (as N)	mg/L	0.015
Total phosphorus	mg/L	< 0.020
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	0.131
Arsenic	mg/L	0.0101
Barium	mg/L	0.0146
Cadmium	mg/L	0.000029
Calcium (total)	mg/L	38.4
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00170
Iron	mg/L	0.235
Lead	mg/L	0.00057
Magnesium (total)	mg/L	14.1
Manganese	mg/L	0.101
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0013
Nickel	mg/L	0.0121
Potassium (total)	mg/L	6.04
Selenium	mg/L	0.00040
Silver	mg/L	< 0.000020
Sodium (total)	mg/L	82.3
Thallium	mg/L	< 0.000010
Titanium	mg/L	< 0.0050
Zinc	mg/L	< 0.0050
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	39.5

Magnesium (Dissolved)	mg/L	14.4
Potassium (Dissolved)	mg/L	6.31
Sodium (Dissolved)	mg/L	82.6

MEL-20		6/15/2025
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.86
Dissolved Oxygen	%	98.7
Turbidity	NTU	3.0
Conductivity	ms/cm	1.60
Hardness, as CaCO ₃	mg/L	284
Total alkalinity, as CaCO ₃	mg/L	61
TDS	mg/L	1060
TDS, calculated	mg/L	870
TSS	mg/L	13
Total organic carbon	mg/L	2.5
WQ03- Major Ions		
Chloride	mg/L	290
Cyanide	mg/L	0.0236
Cyanide (free)	mg/L	0.0163
Cyanide (WAD)	mg/L	0.017
Silica	mg/L	1.6
Sulfate	mg/L	200
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	6.2
Nitrate (as N)	mg/L	14.0
Nitrite (as N)	mg/L	0.182
Total phosphorus	mg/L	0.025
Orthophosphate (P)	mg/L	0.013
WQ06- Total Metals		
Aluminum	mg/L	0.205
Arsenic	mg/L	0.185
Barium	mg/L	0.0247
Cadmium	mg/L	0.000038
Calcium (total)	mg/L	70.1
Chromium	mg/L	< 0.0010
Copper	mg/L	0.0111
Iron	mg/L	0.583
Lead	mg/L	0.00491
Magnesium (total)	mg/L	26.4

Manganese	mg/L	0.226
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0052
Nickel	mg/L	0.0129
Potassium (total)	mg/L	11.7
Selenium	mg/L	0.00190
Silver	mg/L	0.000022
Sodium (total)	mg/L	167
Thallium	mg/L	0.000012
Titanium	mg/L	0.0060
Zinc	mg/L	< 0.0050
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	74.7
Magnesium (Dissolved)	mg/L	26.0
Potassium (Dissolved)	mg/L	12.5
Sodium (Dissolved)	mg/L	170

MEL-21		6/15/2025
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	8.09
Dissolved Oxygen	%	95.2
Turbidity	NTU	8.0
Hardness, as CaCO ₃	mg/L	295
Total alkalinity, as CaCO ₃	mg/L	72
TDS	mg/L	770
TDS, calculated	mg/L	550
TSS	mg/L	15
WQ03- Major Ions		
Chloride	mg/L	190
Cyanide	mg/L	0.00904
Fluoride	mg/L	< 0.10
Silica	mg/L	2.4
Sulfate	mg/L	130
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	0.55
Nitrate (as N)	mg/L	3.18
Nitrite (as N)	mg/L	0.024
Total phosphorus	mg/L	0.024
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		

Aluminum	mg/L	0.283
Arsenic	mg/L	0.0872
Barium	mg/L	0.0315
Cadmium	mg/L	0.000032
Calcium (total)	mg/L	91.8
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00495
Iron	mg/L	0.777
Lead	mg/L	0.00530
Magnesium (total)	mg/L	15.9
Manganese	mg/L	0.108
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0040
Nickel	mg/L	0.0101
Potassium (total)	mg/L	8.06
Selenium	mg/L	0.00052
Silver	mg/L	< 0.000020
Sodium (total)	mg/L	58.9
Thallium	mg/L	0.000012
Titanium	mg/L	0.0072
Zinc	mg/L	< 0.0050
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	92.0
Magnesium (Dissolved)	mg/L	15.4
Potassium (Dissolved)	mg/L	8.20
Sodium (Dissolved)	mg/L	60.7
MEL-22		6/15/2025
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.90
Dissolved Oxygen	%	92.7
Turbidity	NTU	1.7
Hardness, as CaCO ₃	mg/L	253
Total alkalinity, as CaCO ₃	mg/L	66
TDS	mg/L	900
TDS, calculated	mg/L	780
TSS	mg/L	3
WQ03- Major Ions		
Chloride	mg/L	340
Cyanide	mg/L	0.00881
Fluoride	mg/L	< 0.10
Silica	mg/L	0.96

Sulfate	mg/L	120
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	3.5
Nitrate (as N)	mg/L	5.38
Nitrite (as N)	mg/L	0.151
Total phosphorus	mg/L	< 0.020
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	0.0421
Arsenic	mg/L	0.0122
Barium	mg/L	0.0224
Cadmium	mg/L	0.000012
Calcium (total)	mg/L	63.0
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00210
Iron	mg/L	0.102
Lead	mg/L	0.00024
Magnesium (total)	mg/L	23.2
Manganese	mg/L	0.0355
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0053
Nickel	mg/L	0.0106
Potassium (total)	mg/L	16.6
Selenium	mg/L	0.00050
Silver	mg/L	< 0.000020
Sodium (total)	mg/L	165
Thallium	mg/L	0.000022
Titanium	mg/L	< 0.0050
Zinc	mg/L	< 0.0050
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	60.4
Magnesium (Dissolved)	mg/L	22.8
Potassium (Dissolved)	mg/L	16.3
Sodium (Dissolved)	mg/L	160

MEL-23		6/15/2025
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.79
Dissolved Oxygen	%	93.3
Turbidity	NTU	7.1

Hardness, as CaCO ₃	mg/L	149
Total alkalinity, as CaCO ₃	mg/L	36
TDS	mg/L	410
TDS, calculated	mg/L	360
TSS	mg/L	10
WQ03- Major Ions		
Chloride	mg/L	120
Cyanide	mg/L	0.00056
Fluoride	mg/L	< 0.10
Silica	mg/L	0.90
Sulfate	mg/L	93
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	0.70
Nitrate (as N)	mg/L	1.80
Nitrite (as N)	mg/L	0.035
Total phosphorus	mg/L	< 0.020
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	0.165
Arsenic	mg/L	0.0148
Barium	mg/L	0.0117
Cadmium	mg/L	0.000023
Calcium (total)	mg/L	35.5
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00116
Iron	mg/L	0.357
Lead	mg/L	0.00131
Magnesium (total)	mg/L	14.7
Manganese	mg/L	0.0648
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0018
Nickel	mg/L	0.0130
Potassium (total)	mg/L	5.80
Selenium	mg/L	0.00028
Silver	mg/L	< 0.000020
Sodium (total)	mg/L	60.9
Thallium	mg/L	< 0.000010
Titanium	mg/L	< 0.0050
Zinc	mg/L	< 0.0050
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	34.2

Magnesium (Dissolved)	mg/L	13.9
Potassium (Dissolved)	mg/L	5.74
Sodium (Dissolved)	mg/L	60.4

MEL-24		6/15/2025
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.53
Dissolved Oxygen	%	4.4
Turbidity	NTU	17
Hardness, as CaCO ₃	mg/L	1210
Total alkalinity, as CaCO ₃	mg/L	280
TDS	mg/L	2980
TDS, calculated	mg/L	2600
TSS	mg/L	19
WQ03- Major Ions		
Chloride	mg/L	520
Cyanide	mg/L	0.0265
Fluoride	mg/L	0.37
Silica	mg/L	17
Sulfate	mg/L	1100
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	34
Nitrate (as N)	mg/L	4.91
Nitrite (as N)	mg/L	10.2
Total phosphorus	mg/L	0.72
Orthophosphate (P)	mg/L	0.032
WQ06- Total Metals		
Aluminum	mg/L	0.0774
Arsenic	mg/L	0.261
Barium	mg/L	0.269
Cadmium	mg/L	0.000854
Calcium (total)	mg/L	446
Chromium	mg/L	0.0119
Copper	mg/L	0.0517
Iron	mg/L	1.65
Lead	mg/L	0.0262
Magnesium (total)	mg/L	22.8
Manganese	mg/L	0.569
Mercury	mg/L	< 0.00010
Molybdenum	mg/L	0.0336

Nickel	mg/L	0.0275
Potassium (total)	mg/L	76.6
Selenium	mg/L	0.00239
Silver	mg/L	0.000118
Sodium (total)	mg/L	195
Thallium	mg/L	0.000265
Titanium	mg/L	< 0.010
Zinc	mg/L	1.40
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	487
Magnesium (Dissolved)	mg/L	25.7
Potassium (Dissolved)	mg/L	86.5
Sodium (Dissolved)	mg/L	222

MEL-SR1		6/7/2025
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	8.00
Turbidity	NTU	1.3
Hardness, as CaCO ₃	mg/L	203
Total alkalinity, as CaCO ₃	mg/L	120
TDS, calculated	mg/L	360
TSS	mg/L	2
WQ03- Major Ions		
Chloride	mg/L	88
Cyanide	mg/L	<0.00050
Fluoride	mg/L	<0.10
Silica	mg/L	1.4
Sulfate	mg/L	76
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	0.065
Nitrate (as N)	mg/L	<0.10
Nitrite (as N)	mg/L	<0.010
Total phosphorus	mg/L	<0.020
Orthophosphate (P)	mg/L	<0.010
WQ05- General Organics		
Total oil and grease	mg/L	<0.50
WQ06- Total Metals		
Aluminum	mg/L	0.0487
Arsenic	mg/L	0.00253
Barium	mg/L	0.0314

Cadmium	mg/L	<0.000010
Chromium	mg/L	<0.0010
Copper	mg/L	0.00273
Iron	mg/L	0.126
Lead	mg/L	<0.00020
Manganese	mg/L	0.0150
Mercury	mg/L	<0.00001
Molybdenum	mg/L	0.0011
Nickel	mg/L	0.0086
Selenium	mg/L	<0.00010
Silver	mg/L	<0.000020
Thallium	mg/L	0.000010
Zinc	mg/L	0.0112
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	65.2
Magnesium (Dissolved)	mg/L	10.7
Potassium (Dissolved)	mg/L	6.24
Sodium (Dissolved)	mg/L	40.0

MEL-SR-11		6/7/2025
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.92
Turbidity	NTU	1.4
Hardness, as CaCO ₃	mg/L	70.9
Total alkalinity, as CaCO ₃	mg/L	61
TDS, calculated	mg/L	100
TSS	mg/L	4
WQ03- Major Ions		
Chloride	mg/L	12
Cyanide	mg/L	<0.00050
Fluoride	mg/L	0.13
Silica	mg/L	1.7
Sulfate	mg/L	21
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	<0.050
Nitrate (as N)	mg/L	0.21
Nitrite (as N)	mg/L	0.011
Total phosphorus	mg/L	<0.020
Orthophosphate (P)	mg/L	<0.010
WQ05- General Organics		

Total oil and grease	mg/L	<0.50
WQ06- Total Metals		
Aluminum	mg/L	0.0360
Arsenic	mg/L	0.00176
Barium	mg/L	0.0110
Cadmium	mg/L	<0.000010
Chromium	mg/L	<0.0010
Copper	mg/L	0.00102
Iron	mg/L	0.072
Lead	mg/L	<0.00020
Manganese	mg/L	<0.0010
Mercury	mg/L	<0.00001
Molybdenum	mg/L	0.0014
Nickel	mg/L	0.0010
Selenium	mg/L	0.00010
Silver	mg/L	<0.000020
Thallium	mg/L	<0.000010
Zinc	mg/L	<0.0050
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	20.2
Magnesium (Dissolved)	mg/L	3.52
Potassium (Dissolved)	mg/L	2.73
Sodium (Dissolved)	mg/L	7.42

MEL-SR-13		6/7/2025
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.91
Turbidity	NTU	1.8
Hardness, as CaCO ₃	mg/L	60.7
Total alkalinity, as CaCO ₃	mg/L	68
TDS, calculated	mg/L	210
TSS	mg/L	2
WQ03- Major Ions		
Chloride	mg/L	63
Cyanide	mg/L	<0.00050
Fluoride	mg/L	<0.10
Silica	mg/L	1.4
Sulfate	mg/L	38

WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	0.060
Nitrate (as N)	mg/L	<0.10
Nitrite (as N)	mg/L	<0.010
Total phosphorus	mg/L	<0.020
Orthophosphate (P)	mg/L	<0.010
WQ05- General Organics		
Total oil and grease	mg/L	<0.50
WQ06- Total Metals		
Aluminum	mg/L	0.0685
Arsenic	mg/L	0.00086
Barium	mg/L	0.0139
Cadmium	mg/L	<0.000010
Chromium	mg/L	<0.0010
Copper	mg/L	0.00545
Iron	mg/L	0.152
Lead	mg/L	<0.00020
Manganese	mg/L	0.0041
Mercury	mg/L	<0.00001
Molybdenum	mg/L	<0.0010
Nickel	mg/L	0.0024
Selenium	mg/L	<0.00010
Silver	mg/L	<0.000020
Thallium	mg/L	<0.000010
Zinc	mg/L	0.0128
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	27.1
Magnesium (Dissolved)	mg/L	6.49
Potassium (Dissolved)	mg/L	3.37
Sodium (Dissolved)	mg/L	30.7

MEL-SR-14		6/9/2025
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.89
Turbidity	NTU	3.9
Hardness, as CaCO ₃	mg/L	104
Total alkalinity, as CaCO ₃	mg/L	57
TDS, calculated	mg/L	140
TSS	mg/L	7
WQ03- Major Ions		

Chloride	mg/L	27
Cyanide	mg/L	<0.00050
Fluoride	mg/L	0.10
Silica	mg/L	1.8
Sulfate	mg/L	36
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 phosphorus	mg/L	<0.020
Orthophosphate (P)	mg/L	<0.010
WQ05- General Organics		
Total oil and grease	mg/L	<0.50
WQ06- Total Metals		
Aluminum	mg/L	0.159
Arsenic	mg/L	0.00108
Barium	mg/L	0.0123
Cadmium	mg/L	<0.000010
Chromium	mg/L	0.0010
Copper	mg/L	0.00765
Iron	mg/L	0.297
Lead	mg/L	<0.00020
Manganese	mg/L	<0.0010
Mercury	mg/L	<0.00001
Molybdenum	mg/L	<0.0010
Nickel	mg/L	0.0030
Selenium	mg/L	<0.00010
Silver	mg/L	<0.000020
Thallium	mg/L	<0.000010
Zinc	mg/L	0.0263
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	15.5
Magnesium (Dissolved)	mg/L	3.86
Potassium (Dissolved)	mg/L	2.67
Sodium (Dissolved)	mg/L	22.7

MEL-SR-15		6/9/2025
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.64
Turbidity	NTU	0.2

Hardness, as CaCO ₃	mg/L	59.9
Total alkalinity, as CaCO ₃	mg/L	38
TDS, calculated	mg/L	130
TSS	mg/L	4
WQ03- Major Ions		
Chloride	mg/L	49
Cyanide	mg/L	<0.00050
Fluoride	mg/L	<0.10
Silica	mg/L	0.51
Sulfate	mg/L	15
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 phosphorus	mg/L	<0.020
Orthophosphate (P)	mg/L	<0.010
WQ05- General Organics		
Total oil and grease	mg/L	<0.50
WQ06- Total Metals		
Aluminum	mg/L	0.0099
Arsenic	mg/L	0.00162
Barium	mg/L	0.0236
Cadmium	mg/L	<0.000010
Chromium	mg/L	<0.0010
Copper	mg/L	0.00131
Iron	mg/L	0.147
Lead	mg/L	<0.00020
Manganese	mg/L	0.0018
Mercury	mg/L	<0.00001
Molybdenum	mg/L	<0.0010
Nickel	mg/L	0.0012
Selenium	mg/L	<0.00010
Silver	mg/L	<0.000020
Thallium	mg/L	<0.000010
Zinc	mg/L	<0.0050
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	18.2
Magnesium (Dissolved)	mg/L	3.62
Potassium (Dissolved)	mg/L	2.11
Sodium (Dissolved)	mg/L	9.0

MEL-SR-20		6/9/2025
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.93
Turbidity	NTU	0.6
Hardness, as CaCO ₃	mg/L	140
Total alkalinity, as CaCO ₃	mg/L	77
TDS, calculated	mg/L	220
TSS	mg/L	<1
WQ03- Major Ions		
Chloride	mg/L	37
Cyanide	mg/L	0.00064
Fluoride	mg/L	<0.10
Silica	mg/L	1.8
Sulfate	mg/L	68
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	<0.050
Nitrate (as N)	mg/L	<0.010
Nitrite (as N)	mg/L	<0.10
Total phosphorus	mg/L	<0.020
Orthophosphate (P)	mg/L	<0.010
WQ05- General Organics		
Total oil and grease	mg/L	<0.50
WQ06- Total Metals		
Aluminum	mg/L	0.0275
Arsenic	mg/L	0.0345
Barium	mg/L	0.0373
Cadmium	mg/L	0.000011
Chromium	mg/L	<0.0010
Copper	mg/L	0.00362
Iron	mg/L	0.061
Lead	mg/L	<0.00020
Manganese	mg/L	0.0044
Mercury	mg/L	<0.00001
Molybdenum	mg/L	<0.0010
Nickel	mg/L	0.0050
Selenium	mg/L	<0.00010
Silver	mg/L	<0.000020
Thallium	mg/L	<0.0050
Zinc	mg/L	<0.0050
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	47.0

Magnesium (Dissolved)	mg/L	5.90
Potassium (Dissolved)	mg/L	2.87
Sodium (Dissolved)	mg/L	15.0