Meliadine Gold Mine
NWB 2AM-MEL1631
September 2026 Monthly Report

Prepared for:
Nunavut Water Board

Prepared by:
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SECTION 1 • BACKGROUND

As required under Part I, Item 9 of amended Type A Water Licence 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 September 2026.

SECTION 2 • WATER MANAGEMENT

2.1 WATER USAGE

Table 2.1 details monthly water usage approved under Water Licence 2AM-MEL1631.

Table 2.1: Summary of the monthly water usage in 2026

Usage	Unit	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	2026 Total
MEL-11[1]	m^3	46,087	41,721	54,999	53,024	53,994	48,709	56,452	54,038	56,500	-	-	-	465,524
Dust suppression[2]	m^3	0	0	0	0	1	0[3]	0	0	0	-	-	-	1
Dust suppression[4]	m^3	0	0	0	0	0	60	487.5	306	0	-	-	-	854

2.2 DEWATERING ACTIVITIES

Lake A6 dewatering started on July 24. In September, 79,941 m^3 was transferred to CP1, and 71,729 m^3 was transferred to Meliadine Lake.

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] June value was corrected in July Report. No water obtained along AWAR/Meliadine River was used for dust suppression in June.

[4] 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 2026

Location	Unit	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	2026 Total
MEL-14	m^3	0	0	0	0	0	265,231	472,305	164,603	302,500	-	-	-	1,204,639
MEL-26	m^3	0	0	0	0	0	0	0	0	0	-	-	-	0
MEL-25	m^3	0	0	0	0	0	936	0	0	0	-	-	-	936

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 Water Licence MEL-24 description, 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 2026

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	2026 Total
Wastewater Discharge (m^3)		5,404	4,622	4,401	4,828	5,592	5,255	5,261	5,453	5,392	-	-	-	46,207.6
Sewage Sludge	Amount (m^3)	8.2	75.5	7.7	10	8.7	7.7	5.6	2.6	27.6	-	-	-	153.6
	Disposal Location	WRSF3	WRSF3	WRSF3	WRSF3	WRSF3	WRSF3	WRSF3	WRSF3	WRSF3	-	-	-	N/A

2.6 MONITORING ANALYTICAL DATA

Twenty-one (21) 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			2026 Total
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Landfill (Survey)	m^3	32,832[5]			30,652			30,437			-			-
Landfarm (Survey)	m^3	704[6]			776			763			-			-
Landfarm[7]	m^3	3	9	2.85	4.25	5.5	10.8	10.3	3	13.3	-	-	-	62

[5] From landfill survey conducted in December 2025. Surveys of the Landfill are generally not conducted during the winter months, as the presence of snow would not allow a representative survey of the soil quantity.
[6] From landfarm survey conducted in October 2025. 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.
[7] 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 2026

Material (tonnes)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Cumulative 2026
Processed Ore		184,299	153,108	220,849	219,396	227,320	201,514	228,203	192,412	215,300	-	-	-	1,842,401
Waste Rock	Removed from open pit mining	110,145	250,637	427,834	629,818	465,110	365,515	308,079	416,342	341,183	-	-	-	3,314,663
	Removed from underground mining	82,316	83,645	100,588	85,214	91,617	76,801	46,437	33,345	57,186	-	-	-	657,150
	Used as underground dry rockfill	32,431	28,224	39,417	30,834	41,170	43,182	20,054	35,285	28,239	-	-	-	298,837
Tailings	Send to TSF	159,000	118,837	181,127	186,834	187,972	174,917	215,207	155,018	184,320	-	-	-	1,563,231
	Used as paste underground backfill	25,299	34,271	39,722	32,562	39,348	26,597	12,996	37,394	30,980	-	-	-	279,170

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. Four (4) 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	Material spilled/released	Estimated quantity	Exact location of incident	Description of incident	Immediate corrective actions
Thursday, September 03, 2026 2:30:00 AM	Diesel Fuel	80 L	3 Million Fuel farm	80L of diesel spilled from the KCG fuel truck when the Scully loading system unexpectedly initiated a new 10,000 L loading sequence at the 3 million Fuel Farm.	Loading sequence was stopped and supervisor was called. The spilled occurred within the lined secondary containment. Sand was placed to absorb the spill to prevent damaging the liner. The contaminated sand was recovered and placed into the Landfarm.
Friday, September 04, 2026 12:30:00 PM	Contact water	7.5 m3	Between the Recirculation seacan and SP1	7.5 m3 of contact water spilled from the CP1 to SETP-WTC line when a pipeline failure occurred between the recirculation seacan and SP1.	The line was closed and then repaired. No remediation was required since the contact water spill occurred within the site's water management system.
Sunday, September 06, 2026 7:00:00 AM	Diesel Fuel	35 L	Y-Intersection (Top of Tiri-1)	35L of diesel spilled from a water truck when a fuel line was damaged after the operator drove over a windrow previously made by the grader at the TIRI01 ramp.	A spill tray was placed below the equipment and contaminated material was recovered and placed into the Landfarm.

Monday, September 07, 2026 10:00:00 AM	Total Suspended Solids	160 mg/L	Lake A6 dewatered Pond 7	During dewatering activities at Lake A6, a Qualified Environmental Professional (QEP) with the Environment department observed a sediment plume entering an isolated basin (Pond 7) of the partially dewatered Lake A6. At the time, freshwater from an adjacent basin (Pond 4) was being pumped into Pond 7 which was being dewatered to CP1. As the water level in Pond 7 declined, fine-grained lakebed material along the shoreline became exposed. The high-velocity discharge of the freshwater being pumped from Pond 4 into Pond 7 contacted the exposed lakebed and caused erosion.	The QEP collected field water-quality measurements and samples for analysis. Sediment and erosion-control measures were initially deployed and pumping from Pond 4 was stopped when the measures did not fully control the plume. The Pond 4 discharge line was then extended into deeper water.
Monday, September 07, 2026 3:00:00 PM	Diesel Exhaust Fluid (DEF)	250 L	DEF seacan at 6 Million fuel farm	250 L of DEF spilled from a tote when the bottom valve broke during a tote transfer at the 6 Million fuel farm gas boy.	The employee closed the broken valve to stop the leak, then contacted the environment department. The employee then put spill pads on the ground. Sand was placed to absorb the spill the prevent damaging the liner. The contaminated sand was recovered and disposed of into Quatrex bags.
Tuesday, September 08, 2026 6:45:00 AM	Hydraulic Oil	10 L	Meliadine - Tiri 01 - 10005MS41	10 L of hydraulic oil spilled from an excavator when a hose failure occurred in TIRI01 pit.	The equipment was stopped and spill pads were used to absorb the spill. Contaminated material (waste rock) was recovered and placed into the Landfarm.

Saturday, September 12, 2026 8:30:00 AM	Total Suspended Solids	46 mg/L	Lake A6 dewatered Pond 7	A second sediment plume was observed in the same receiving basin as the September 7 event. The discharge from a transfer line originating in Pond 9 was directed into shallow water in Pond 7, where the discharge also disturbed lakebed sediment.	The QEP collected field water-quality measurements and samples for analysis. The Pond 9 pump was stopped, and the Pond 9 and Pond 4 discharge lines were extended to the deepest practical area of the receiving basin and suspended using buoys.
Saturday, September 12, 2026 2:30:00 PM	Diesel Fuel	40 L	3M Fuel Farm	40 L of diesel spilled when fueling a 50T haul truck at the 3M Fuel Farm.	Spill pads were used and brought to UG portal 2 dome for disposal (oily solids) and an estimated .5m3 of rock/gravel was collected and brought to Landfarm A sorting area.
Monday, September 14, 2026 11:00:00 AM	Hydraulic Oil	55 L	Tiri 1 - 9995MS06	55 L of hydraulic oil spilled from a haul truck when a hose failure occurred in TIRI01 pit.	The equipment was stopped. Spill pads were used and contaminated aggregate was recovered and placed into the Landfarm sorting area.
Tuesday, September 15, 2026 3:54:00 AM	Hydraulic Oil	3 L	OP2	3 L of hydraulic oil was released on the ground at OP2 from a leaking hydraulic hose on 65BAC05.	Operations were stopped immediately and a spill kit was deployed to contain the hydraulic fluid. Contaminated material was recovered.
Tuesday, September 15, 2026 4:30:00 PM	Hydraulic Oil	30 L	Itivia	30 L of hydraulic oil spilled from a loader when a hydraulic hose broke at Itivia.	The equipment was stopped. Spill pads were used and disposed of into Quatrex bags. Contaminated soil was collected and disposed of into Quatrex bags.
Wednesday, September 16, 2026 8:30:00 PM	Hydraulic Oil	25 L	Meliadine - Tiri 1 - 9995MS06	25 L of hydraulic oil spilled from an excavator from a damaged hydraulic fitting in TIRI01 pit.	The equipment was stopped. Contaminated waste rock was recovered and placed into the Landfarm sorting area.
Friday, September 18, 2026 1:30:00 PM	Hydraulic Oil	5 L	OP2	5 L of hydraulic oil was released on the ground at OP2 due to a failure on LOA18.	Contaminated material was collected and brought to Landfarm A for disposal.

Sunday, September 20, 2026 12:00:00 PM	Hydraulic Oil	3 L	Dome 3	3L of hydraulic oil spilled from a truck when a hydraulic hose broke at Dome 3.	Spill pads were used to collect the spill and were disposed of into Quatrex bags at Dome 3.
Wednesday, September 23, 2026 1:00:00 AM	Norfil Laundry detergent	5 L	In front of warehouse door #1	5L of biodegradable laundry detergent spilled from leaking buckets when the buckets froze over winter at the Warehouse door no.1	The product was absorbed with spill pads which were disposed of into a Quatrex bag.
Wednesday, September 23, 2026 5:00:00 AM	Sewage	75 L	MSB main lift station	A Surface Operations vacuum truck operator was transferring sewage collected from around the site into the MSB main lift station when sewage began discharging from an external valve on the truck. Approximately 75 L of sewage was released onto the ground adjacent to the MSB main lift station.	The Surface Operations vacuum truck operator immediately closed the valve to stop the release and notified their supervisor. Sand was placed to absorb the sewage, and cleanup activities began. Approximately 2 m^3 of contaminated material was transported to Landfarm A.
Friday, September 25, 2026 2:00:00 PM	Diesel Fuel	12 L	West vent raise	12 L of diesel spilled from a burner room when maintenance work was being done at the West Vent Raise.	Spill pads were placed and disposed of appropriately.
Monday, September 28, 2026 11:30:00 AM	Transmission Oil	41 L	Tiri01	41 L of of transmission oil spilled from a haul truck when an oil line on the transmission filtering system failed at TIRI01.	Spill kit was deployed. Contaminated ore will be processed through the mill.

Tuesday, September 29, 2026 6:00:00 AM	Paste	0.8 m3	Paste Plant	A Paste Plant Relief Operator (PPRO) conducting an inspection observed paste discharging from the recently-installed paste discharge truck-fill line outside the Paste Plant. Approximately 0.8 m³ of paste was released onto the ground. Based on the composition of the paste at the time of the incident, the released material contained approximately 0.6 m³ of tailings.	The PPRO immediately stopped the conveyor and hopper feeding the paste discharge line and notified their supervisor and the Environment Department. At the direction of the Environment Department, a tote was placed beneath the discharge line to capture any additional paste. The released paste was contained within the small bermed area constructed to allow cement trucks to position beneath the discharge line. The material within the berm was subsequently recovered and transported to the Tailings Storage Facility.

Appendix – Monitoring Analytical Data

Sample date		9/2/2026
Sample name		MEL-11
WQ02- Conventional Parameters		
pH	**pH units**	7.50
Turbidity	**NTU**	1.0
Conductivity	**ms/cm**	0.134
Hardness, as CaCO3	**mg/L**	36.4
Total alkalinity, as CaCO3	**mg/L**	23
Carbonate, as CaCO3	**mg/L**	< 1.0
Bicarbonate, as CaCO3	**mg/L**	23
TDS	**mg/L**	80
TDS, calculated	**mg/L**	67
TSS	**mg/L**	< 1
Total organic carbon	**mg/L**	3.4
Dissolved organic carbon	**mg/L**	3.5
WQ03- Major Ions		
Chloride	**mg/L**	17
Cyanide	**mg/L**	< 0.00050
Cyanide (free)	**mg/L**	< 0.00050
Cyanide (WAD)	**mg/L**	< 0.00050
Silica	**mg/L**	0.26
Sulfate	**mg/L**	13
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**	0.22
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**	0.00084
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
Copper	**mg/L**	0.00090
Iron	**mg/L**	0.016
Lead	**mg/L**	< 0.00020

Lithium	**mg/L**	< 0.0020
Manganese	**mg/L**	0.0051
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**	0.0549
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**	0.00090
Barium	**mg/L**	0.0110
Beryllium	**mg/L**	< 0.00010
Boron	**mg/L**	< 0.050
Cadmium	**mg/L**	< 0.000010
Calcium (Dissolved)	**mg/L**	12.3
Chromium	**mg/L**	< 0.0010
Copper	**mg/L**	0.00100
Iron	**mg/L**	0.0071
Lead	**mg/L**	< 0.00020
Lithium	**mg/L**	< 0.0020
Magnesium (Dissolved)	**mg/L**	2.09
Manganese	**mg/L**	< 0.0010
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	< 0.0010
Nickel	**mg/L**	< 0.0010
Potassium (Dissolved)	**mg/L**	1.22
Selenium	**mg/L**	< 0.00010
Silver	**mg/L**	< 0.000020
Sodium (Dissolved)	**mg/L**	8.52
Strontium	**mg/L**	0.0622
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**	< 0.09
F3 (C16-C34)	**mg/L**	< 0.2
F4 (C34-C50)	**mg/L**	< 0.2

Sample date		9/6/2026
Sample name		MEL-12
WQ02- Conventional Parameters		
pH	**pH units**	7.77
Turbidity	**NTU**	1.2
Hardness, as CaCO3	**mg/L**	418
Total alkalinity, as CaCO3	**mg/L**	82
TDS	**mg/L**	1070
TDS, calculated	**mg/L**	930
TSS	**mg/L**	7
WQ03- Major Ions		
Chloride	**mg/L**	340
Cyanide	**mg/L**	0.00073
Fluoride	**mg/L**	< 0.10
Silica	**mg/L**	0.81
Sulfate	**mg/L**	210
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	**mg/L**	< 0.050
Nitrate (as N)	**mg/L**	7.41
Nitrite (as N)	**mg/L**	0.059
Total phosphorus	**mg/L**	0.039
Orthophosphate (P)	**mg/L**	0.017
WQ06- Total Metals		
Aluminum	**mg/L**	0.0959
Arsenic	**mg/L**	0.0241

Barium	**mg/L**	0.0423
Cadmium	**mg/L**	< 0.000010
Chromium	**mg/L**	< 0.0010
Copper	**mg/L**	0.00249
Iron	**mg/L**	0.087
Lead	**mg/L**	0.00022
Manganese	**mg/L**	0.0389
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	0.0042
Nickel	**mg/L**	0.0056
Selenium	**mg/L**	0.00045
Silver	**mg/L**	< 0.000020
Thallium	**mg/L**	0.000010
Zinc	**mg/L**	< 0.0050
WQ07- Dissolved Metals		
Calcium (Dissolved)	**mg/L**	109
Magnesium (Dissolved)	**mg/L**	28.0
Potassium (Dissolved)	**mg/L**	14.3
Sodium (Dissolved)	**mg/L**	143

Sample date		9/15/2026
Sample name		MEL-13
WQ02- Conventional Parameters		
pH	**pH units**	7.59
Turbidity	**NTU**	0.9
Conductivity	**ms/cm**	0.161
Hardness, as CaCO3	**mg/L**	46.4
Total alkalinity, as CaCO3	**mg/L**	24
Carbonate, as CaCO3	**mg/L**	< 1.0
Bicarbonate, as CaCO3	**mg/L**	24
TDS	**mg/L**	75
TDS, calculated	**mg/L**	78
TSS	**mg/L**	1
Total organic carbon	**mg/L**	3.7
Dissolved organic carbon	**mg/L**	3.6
WQ03- Major Ions		
Chloride	**mg/L**	20
Cyanide	**mg/L**	< 0.00050
Cyanide (free)	**mg/L**	< 0.00050
Cyanide (WAD)	**mg/L**	< 0.00050

Silica	**mg/L**	0.11
Sulfate	**mg/L**	17
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**	0.21
Total phosphorus	**mg/L**	< 0.020
Orthophosphate (P)	**mg/L**	< 0.010
WQ06- Total Metals		
Aluminum	**mg/L**	0.00635
Antimony	**mg/L**	0.000032
Arsenic	**mg/L**	0.000830
Barium	**mg/L**	0.0119
Beryllium	**mg/L**	0.000037
Boron	**mg/L**	< 0.01
Cadmium	**mg/L**	0.0000432
Chromium	**mg/L**	0.00023
Cobalt	**mg/L**	0.0000445
Copper	**mg/L**	0.000830
Iron	**mg/L**	0.0040
Lead	**mg/L**	0.0000392
Lithium	**mg/L**	0.00116
Manganese	**mg/L**	0.000431
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	0.000179
Nickel	**mg/L**	0.000747
Selenium	**mg/L**	0.000090
Silver	**mg/L**	0.0000055
Strontium	**mg/L**	0.0757
Thallium	**mg/L**	0.0000067
Tin	**mg/L**	< 0.00020
Titanium	**mg/L**	< 0.00050
Uranium	**mg/L**	0.0000778
Vanadium	**mg/L**	< 0.00020
Zinc	**mg/L**	0.00060
WQ07- Dissolved Metals		
Aluminum	**mg/L**	0.00566
Antimony	**mg/L**	0.000026
Arsenic	**mg/L**	0.000756
Barium	**mg/L**	0.0116

Beryllium	**mg/L**	< 0.000010
Boron	**mg/L**	< 0.01
Cadmium	**mg/L**	< 0.0000050
Calcium (Dissolved)	**mg/L**	13.6
Chromium	**mg/L**	0.00016
Cobalt	**mg/L**	0.0000223
Copper	**mg/L**	0.000854
Iron	**mg/L**	0.0109
Lead	**mg/L**	< 0.0000050
Lithium	**mg/L**	0.00111
Magnesium (Dissolved)	**mg/L**	2.41
Manganese	**mg/L**	0.00296
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	0.000175
Nickel	**mg/L**	0.000688
Potassium (Dissolved)	**mg/L**	1.34
Selenium	**mg/L**	< 0.000040
Silver	**mg/L**	< 0.0000050
Sodium (Dissolved)	**mg/L**	9.71
Strontium	**mg/L**	0.0744
Thallium	**mg/L**	0.0000020
Tin	**mg/L**	< 0.00020
Titanium	**mg/L**	< 0.00050
Uranium	**mg/L**	0.0000410
Vanadium	**mg/L**	< 0.00020
Zinc	**mg/L**	0.00038
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**	< 0.09
F3 (C16-C34)	**mg/L**	< 0.2
F4 (C34-C50)	**mg/L**	< 0.2

Sample date		9/5/2026	9/6/2026	9/13/2026	9/20/2026	9/27/2026
Sample name		MEL-14	MEL-14	MEL-14	MEL-14	MEL-14
WQ02- Conventional Parameters						
pH	**pH units**	7.81	7.79	8.07	7.87	7.83
Turbidity	**NTU**	2.5	2.2	1.6	1.6	2.0
Conductivity	**ms/cm**	1.76	1.69	1.64	1.73	2.04
Hardness, as CaCO3	**mg/L**	429	437	408	413	485
Total alkalinity, as CaCO3	**mg/L**	78	79	87	82	80
Carbonate, as CaCO3	**mg/L**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bicarbonate, as CaCO3	**mg/L**	78	78	86	82	80
TDS	**mg/L**	1110	1070	965	1140	1290
TDS, calculated	**mg/L**	1000	970	920	1000	1200
TSS	**mg/L**	10	11	6	7	4
Total organic carbon	**mg/L**	8.0	8.4	8.4	7.5	7.7
Dissolved organic carbon	**mg/L**	7.4	7.4	7.3	7.0	8.0
WQ03- Major Ions						
Chloride	**mg/L**	360	350	330	370	450
Cyanide	**mg/L**	0.00072	0.00074	0.00088	0.00130	0.00094
Cyanide (free)	**mg/L**	< 0.00050	0.00060	< 0.00050	0.00073	< 0.00050
Cyanide (WAD)	**mg/L**	< 0.00050	0.00052	0.00071	0.00095	0.00093
Silica	**mg/L**	0.63	0.71	0.39	0.79	0.97
Sulfate	**mg/L**	220	210	200	210	250
WQ04- Nutrients and Chlorophyll a						
Ammonia Nitrogen (as N)	**mg/L**	0.10	0.095	< 0.050	1.2	0.81
Un-Ionized Ammonia, calculated	**mg/L**	0.0022	0.0012	< 0.00099	0.0036	0.0042
Nitrate (as N)	**mg/L**	7.55	7.09	6.86	8.76	9.54
Nitrite (as N)	**mg/L**	0.065	0.052	0.050	0.093	0.238
Total Kjeldahl nitrogen	**mg/L**	0.59	0.72	0.57	1.4	1.8
Total phosphorus	**mg/L**	0.038	0.061	0.072	0.027	< 0.020
Orthophosphate (P)	**mg/L**	< 0.010	< 0.010	0.022	< 0.010	< 0.010
WQ06- Total Metals						
Aluminum	**mg/L**	1.28	1.52	0.945	0.875	0.540
Antimony	**mg/L**	0.00098	0.00094	0.00083	0.00086	0.00079
Arsenic	**mg/L**	0.0191	0.0208	0.0229	0.0108	0.00468
Barium	**mg/L**	0.0419	0.0424	0.0399	0.0405	0.0468
Beryllium	**mg/L**	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010
Boron	**mg/L**	0.171	0.169	0.148	0.125	0.146
Cadmium	**mg/L**	< 0.000010	< 0.000010	< 0.000010	< 0.000010	< 0.000010
Chromium	**mg/L**	< 0.0010	< 0.0010	0.0012	< 0.0010	< 0.0010
Cobalt	**mg/L**	0.00078	0.00072	0.00063	0.00077	0.00082
Copper	**mg/L**	0.00248	0.00245	0.00485	0.00231	0.00150
Iron	**mg/L**	0.073	0.076	0.085	0.098	0.052

Lead	**mg/L**	< 0.00020	< 0.00020	0.00040	0.00031	< 0.00020
Lithium	**mg/L**	0.0220	0.0221	0.0195	0.0195	0.0207
Manganese	**mg/L**	0.0393	0.0347	0.0268	0.0374	0.0779
Mercury	**mg/L**	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	**mg/L**	0.0045	0.0044	0.0038	0.0035	0.0039
Nickel	**mg/L**	0.0060	0.0060	0.0052	0.0058	0.0055
Selenium	**mg/L**	0.00047	0.00042	0.00037	0.00037	0.00046
Silver	**mg/L**	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020
Strontium	**mg/L**	1.12	1.12	0.990	1.05	1.17
Thallium	**mg/L**	< 0.000010	0.000011	0.000012	< 0.000010	< 0.000010
Tin	**mg/L**	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Titanium	**mg/L**	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Uranium	**mg/L**	0.00295	0.00291	0.00285	0.00290	0.00221
Vanadium	**mg/L**	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Zinc	**mg/L**	< 0.0050	< 0.0050	0.0157	0.0111	< 0.0050
WQ07- Dissolved Metals						
Aluminum	**mg/L**	0.203	0.183	0.406	0.158	0.0973
Antimony	**mg/L**	0.00093	0.00094	0.00080	0.00085	0.00080
Arsenic	**mg/L**	0.00861	0.00802	0.0168	0.00543	0.00293
Barium	**mg/L**	0.0423	0.0430	0.0372	0.0402	0.0489
Beryllium	**mg/L**	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010
Boron	**mg/L**	0.153	0.151	0.159	0.139	0.153
Cadmium	**mg/L**	< 0.000010	< 0.000010	< 0.000010	< 0.000010	< 0.000010
Calcium (Dissolved)	**mg/L**	120	117	105	103	141
Chromium	**mg/L**	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Cobalt	**mg/L**	0.00064	0.00064	0.00053	0.00075	0.00077
Copper	**mg/L**	0.00198	0.00230	0.00220	0.00194	0.00130
Iron	**mg/L**	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Lead	**mg/L**	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Lithium	**mg/L**	0.0197	0.0200	0.0218	0.0207	0.0211
Magnesium (Dissolved)	**mg/L**	30.5	29.8	31.6	31.4	36.6
Manganese	**mg/L**	0.0250	0.0233	0.0135	0.0295	0.0776
Mercury	**mg/L**	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	**mg/L**	0.0044	0.0044	0.0035	0.0036	0.0040
Nickel	**mg/L**	0.0049	0.0051	0.0048	0.0056	0.0054
Potassium (Dissolved)	**mg/L**	16.5	15.9	14.3	14.6	17.1
Selenium	**mg/L**	0.00044	0.00042	0.00036	0.00037	0.00046
Silver	**mg/L**	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020
Sodium (Dissolved)	**mg/L**	162	157	165	153	188

Strontium	**mg/L**	1.21	1.13	1.01	1.06	1.32
Thallium	**mg/L**	< 0.000010	0.000011	0.000011	< 0.000010	< 0.000010
Tin	**mg/L**	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Titanium	**mg/L**	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Uranium	**mg/L**	0.00249	0.00230	0.00256	0.00272	0.00196
Vanadium	**mg/L**	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Zinc	**mg/L**	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
WQ08- Radionuclides						
Radium-226	**Bq/l**	< 0.0050	< 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	< 0.00020
Ethylbenzene	**mg/L**	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Toluene	**mg/L**	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Xylenes	**mg/L**	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040
m,p-Xylenes	**mg/L**	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040
o-Xylene	**mg/L**	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
F1 (C6-C10)-BTEX	**mg/L**	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
F1 (C6-C10)	**mg/L**	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
F2 (C10-C16)	**mg/L**	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09
F3 (C16-C34)	**mg/L**	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
F4 (C34-C50)	**mg/L**	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2

		Sample date	9/11/2026
		Sample name	MEL-15
WQ02- Conventional Parameters			
pH	**pH units**	7.92	
Turbidity	**NTU**	0.8	
Conductivity	**ms/cm**	0.196	
Hardness, as CaCO3	**mg/L**	74.5	
Total alkalinity, as CaCO3	**mg/L**	53	
Carbonate, as CaCO3	**mg/L**	< 1.0	
Bicarbonate, as CaCO3	**mg/L**	53	
TDS	**mg/L**	120	
TDS, calculated	**mg/L**	99	

TSS	**mg/L**	2
Total organic carbon	**mg/L**	5.8
Dissolved organic carbon	**mg/L**	5.4
WQ03- Major Ions		
Chloride	**mg/L**	17
Cyanide	**mg/L**	0.00066
Cyanide (free)	**mg/L**	0.00066
Cyanide (WAD)	**mg/L**	< 0.00050
Silica	**mg/L**	1.6
Sulfate	**mg/L**	14
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**	0.32
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**	0.00298
Barium	**mg/L**	0.0163
Beryllium	**mg/L**	< 0.00010
Boron	**mg/L**	< 0.050
Cadmium	**mg/L**	< 0.000010
Chromium	**mg/L**	< 0.0010
Copper	**mg/L**	0.00296
Iron	**mg/L**	0.077
Lead	**mg/L**	0.00025
Lithium	**mg/L**	0.0021
Manganese	**mg/L**	0.0093
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**	0.121
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**	0.00278
Barium	**mg/L**	0.0154
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**	0.00056
Iron	**mg/L**	0.0338
Lead	**mg/L**	< 0.00020
Lithium	**mg/L**	< 0.0020
Magnesium (Dissolved)	**mg/L**	3.09
Manganese	**mg/L**	0.0025
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**	7.92
Strontium	**mg/L**	0.115
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

	Sample date	9/11/2026
	Sample name	MEL-16
WQ02- Conventional Parameters		
pH	**pH units**	7.93
Turbidity	**NTU**	0.6
Conductivity	**ms/cm**	0.206
Hardness, as CaCO3	**mg/L**	78.0
Total alkalinity, as CaCO3	**mg/L**	48

Carbonate, as CaCO3	**mg/L**	< 1.0
Bicarbonate, as CaCO3	**mg/L**	48
TDS	**mg/L**	100
TDS, calculated	**mg/L**	100
TSS	**mg/L**	2
Total organic carbon	**mg/L**	4.9
Dissolved organic carbon	**mg/L**	4.8
WQ03- Major Ions		
Chloride	**mg/L**	22
Cyanide	**mg/L**	< 0.00050
Cyanide (free)	**mg/L**	0.00051
Cyanide (WAD)	**mg/L**	< 0.00050
Silica	**mg/L**	0.70
Sulfate	**mg/L**	14
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**	0.27
Total phosphorus	**mg/L**	< 0.020
Orthophosphate (P)	**mg/L**	< 0.010
WQ06- Total Metals		
Aluminum	**mg/L**	0.0055
Antimony	**mg/L**	< 0.00050
Arsenic	**mg/L**	0.0132
Barium	**mg/L**	0.0274
Beryllium	**mg/L**	< 0.00010
Boron	**mg/L**	< 0.050
Cadmium	**mg/L**	< 0.000010
Chromium	**mg/L**	< 0.0010
Copper	**mg/L**	0.00110
Iron	**mg/L**	0.082
Lead	**mg/L**	< 0.00020
Lithium	**mg/L**	< 0.0020
Manganese	**mg/L**	0.0047
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**	0.126
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**	0.0112
Barium	**mg/L**	0.0260
Beryllium	**mg/L**	< 0.00010
Boron	**mg/L**	< 0.050
Cadmium	**mg/L**	< 0.000010
Calcium (Dissolved)	**mg/L**	23.3
Chromium	**mg/L**	< 0.0010
Copper	**mg/L**	0.00095
Iron	**mg/L**	0.0389
Lead	**mg/L**	< 0.00020
Lithium	**mg/L**	< 0.0020
Magnesium (Dissolved)	**mg/L**	3.49
Manganese	**mg/L**	0.0021
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	< 0.0010
Nickel	**mg/L**	< 0.0010
Potassium (Dissolved)	**mg/L**	1.76
Selenium	**mg/L**	< 0.00010
Silver	**mg/L**	< 0.000020
Sodium (Dissolved)	**mg/L**	8.85
Strontium	**mg/L**	0.116
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

	Sample date	9/12/2026
	Sample name	MEL-17
WQ02- Conventional Parameters		
pH	**pH units**	8.04

Turbidity	**NTU**	1.0
Conductivity	**ms/cm**	0.418
Hardness, as CaCO3	**mg/L**	160
Total alkalinity, as CaCO3	**mg/L**	80
Carbonate, as CaCO3	**mg/L**	< 1.0
Bicarbonate, as CaCO3	**mg/L**	79
TDS	**mg/L**	250
TDS, calculated	**mg/L**	220
TSS	**mg/L**	1
Total organic carbon	**mg/L**	12
Dissolved organic carbon	**mg/L**	10
WQ03- Major Ions		
Chloride	**mg/L**	49
Cyanide	**mg/L**	0.00091
Cyanide (free)	**mg/L**	0.00066
Cyanide (WAD)	**mg/L**	< 0.00050
Silica	**mg/L**	2.0
Sulfate	**mg/L**	47
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**	0.65
Total phosphorus	**mg/L**	< 0.020
Orthophosphate (P)	**mg/L**	< 0.010
WQ06- Total Metals		
Aluminum	**mg/L**	0.0077
Antimony	**mg/L**	< 0.00050
Arsenic	**mg/L**	0.00159
Barium	**mg/L**	0.0376
Beryllium	**mg/L**	< 0.00010
Boron	**mg/L**	< 0.050
Cadmium	**mg/L**	< 0.000010
Chromium	**mg/L**	< 0.0010
Copper	**mg/L**	0.00112
Iron	**mg/L**	0.135
Lead	**mg/L**	< 0.00020
Lithium	**mg/L**	0.0045
Manganese	**mg/L**	0.0271
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	< 0.0010
Nickel	**mg/L**	0.0017

Selenium	**mg/L**	< 0.00010
Silver	**mg/L**	< 0.000020
Strontium	**mg/L**	0.320
Thallium	**mg/L**	< 0.000010
Tin	**mg/L**	< 0.0050
Titanium	**mg/L**	< 0.0050
Uranium	**mg/L**	0.00020
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**	0.00136
Barium	**mg/L**	0.0357
Beryllium	**mg/L**	< 0.00010
Boron	**mg/L**	< 0.050
Cadmium	**mg/L**	< 0.000010
Calcium (Dissolved)	**mg/L**	47.1
Chromium	**mg/L**	< 0.0010
Copper	**mg/L**	0.00098
Iron	**mg/L**	0.0609
Lead	**mg/L**	< 0.00020
Lithium	**mg/L**	0.0046
Magnesium (Dissolved)	**mg/L**	7.79
Manganese	**mg/L**	0.0179
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	< 0.0010
Nickel	**mg/L**	0.0016
Potassium (Dissolved)	**mg/L**	3.34
Selenium	**mg/L**	< 0.00010
Silver	**mg/L**	< 0.000020
Sodium (Dissolved)	**mg/L**	22.1
Strontium	**mg/L**	0.306
Thallium	**mg/L**	< 0.000010
Tin	**mg/L**	< 0.0050
Titanium	**mg/L**	< 0.0050
Uranium	**mg/L**	0.00017
Vanadium	**mg/L**	< 0.0050
Zinc	**mg/L**	< 0.0050

Sample date		9/11/2026
Sample name		MEL-18
WQ02- Conventional Parameters		
pH	**pH units**	7.98
Turbidity	**NTU**	0.8
Conductivity	**ms/cm**	0.310
Hardness, as CaCO3	**mg/L**	112
Total alkalinity, as CaCO3	**mg/L**	58
Carbonate, as CaCO3	**mg/L**	< 1.0
Bicarbonate, as CaCO3	**mg/L**	58
TDS	**mg/L**	175
TDS, calculated	**mg/L**	160
TSS	**mg/L**	1
Total organic carbon	**mg/L**	5.3
Dissolved organic carbon	**mg/L**	5.2
WQ03- Major Ions		
Chloride	**mg/L**	41
Cyanide	**mg/L**	< 0.00050
Cyanide (free)	**mg/L**	0.00052
Cyanide (WAD)	**mg/L**	< 0.00050
Silica	**mg/L**	1.1
Sulfate	**mg/L**	27
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**	0.0077
Antimony	**mg/L**	< 0.00050
Arsenic	**mg/L**	0.00494
Barium	**mg/L**	0.0222
Beryllium	**mg/L**	< 0.00010
Boron	**mg/L**	< 0.050
Cadmium	**mg/L**	< 0.000010
Chromium	**mg/L**	< 0.0010
Copper	**mg/L**	0.00086
Iron	**mg/L**	0.067
Lead	**mg/L**	< 0.00020
Lithium	**mg/L**	0.0088

Manganese	**mg/L**	0.0074
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**	0.239
Thallium	**mg/L**	< 0.000010
Tin	**mg/L**	< 0.0050
Titanium	**mg/L**	< 0.0050
Uranium	**mg/L**	0.00012
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**	0.00415
Barium	**mg/L**	0.0220
Beryllium	**mg/L**	< 0.00010
Boron	**mg/L**	< 0.050
Cadmium	**mg/L**	< 0.000010
Calcium (Dissolved)	**mg/L**	36.2
Chromium	**mg/L**	< 0.0010
Copper	**mg/L**	0.00077
Iron	**mg/L**	0.0203
Lead	**mg/L**	< 0.00020
Lithium	**mg/L**	0.0084
Magnesium (Dissolved)	**mg/L**	5.46
Manganese	**mg/L**	0.0023
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	< 0.0010
Nickel	**mg/L**	< 0.0010
Potassium (Dissolved)	**mg/L**	1.93
Selenium	**mg/L**	< 0.00010
Silver	**mg/L**	< 0.000020
Sodium (Dissolved)	**mg/L**	12.4
Strontium	**mg/L**	0.230
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

Sample date		9/11/2026
Sample name		MEL-19
WQ02- Conventional Parameters		
pH	**pH units**	8.22
Turbidity	**NTU**	0.8
Hardness, as CaCO3	**mg/L**	728
Total alkalinity, as CaCO3	**mg/L**	120
TDS	**mg/L**	1780
TDS, calculated	**mg/L**	1600
TSS	**mg/L**	2
WQ03- Major Ions		
Chloride	**mg/L**	520
Cyanide	**mg/L**	0.00059
Fluoride	**mg/L**	0.19
Silica	**mg/L**	1.3
Sulfate	**mg/L**	530
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	**mg/L**	< 0.050
Nitrate (as N)	**mg/L**	4.66
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**	0.0118
Arsenic	**mg/L**	0.0141
Barium	**mg/L**	0.0458
Cadmium	**mg/L**	0.000025
Chromium	**mg/L**	< 0.0010
Copper	**mg/L**	0.00601
Iron	**mg/L**	0.013
Lead	**mg/L**	< 0.00020
Manganese	**mg/L**	0.0140
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	0.0046
Nickel	**mg/L**	0.0304
Selenium	**mg/L**	0.00097
Silver	**mg/L**	< 0.000020
Thallium	**mg/L**	0.000017

Zinc	**mg/L**	< 0.0050
WQ07- Dissolved Metals		
Calcium (Dissolved)	**mg/L**	185
Magnesium (Dissolved)	**mg/L**	47.6
Potassium (Dissolved)	**mg/L**	22.1
Sodium (Dissolved)	**mg/L**	251

Sample date		9/11/2026
Sample name		MEL-20
WQ02- Conventional Parameters		
pH	**pH units**	8.00
Turbidity	**NTU**	1.6
Hardness, as CaCO3	**mg/L**	1640
Total alkalinity, as CaCO3	**mg/L**	130
TDS	**mg/L**	4940
TDS, calculated	**mg/L**	4500
TSS	**mg/L**	4
WQ03- Major Ions		
Chloride	**mg/L**	1800
Cyanide	**mg/L**	0.00646
Fluoride	**mg/L**	0.27
Silica	**mg/L**	4.0
Sulfate	**mg/L**	1000
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	**mg/L**	7.9
Nitrate (as N)	**mg/L**	68.0
Nitrite (as N)	**mg/L**	1.13
Total phosphorus	**mg/L**	< 0.020
Orthophosphate (P)	**mg/L**	< 0.010
WQ06- Total Metals		
Aluminum	**mg/L**	0.025
Arsenic	**mg/L**	0.0480
Barium	**mg/L**	0.0628
Cadmium	**mg/L**	0.000319
Chromium	**mg/L**	< 0.0050
Copper	**mg/L**	0.0064
Iron	**mg/L**	0.087
Lead	**mg/L**	< 0.0010
Manganese	**mg/L**	0.816
Mercury	**mg/L**	< 0.00001

Molybdenum	**mg/L**	0.0075
Nickel	**mg/L**	0.107
Selenium	**mg/L**	0.00398
Silver	**mg/L**	< 0.00010
Thallium	**mg/L**	< 0.000050
Zinc	**mg/L**	< 0.025
WQ07- Dissolved Metals		
Calcium (Dissolved)	**mg/L**	366
Magnesium (Dissolved)	**mg/L**	139
Potassium (Dissolved)	**mg/L**	51.3
Sodium (Dissolved)	**mg/L**	757

Sample date		9/11/2026
Sample name		MEL-21
WQ02- Conventional Parameters		
pH	**pH units**	8.18
Turbidity	**NTU**	1.6
Hardness, as CaCO3	**mg/L**	1060
Total alkalinity, as CaCO3	**mg/L**	120
TDS	**mg/L**	2720
TDS, calculated	**mg/L**	2400
TSS	**mg/L**	4
WQ03- Major Ions		
Chloride	**mg/L**	830
Cyanide	**mg/L**	0.00159
Fluoride	**mg/L**	0.18
Silica	**mg/L**	3.8
Sulfate	**mg/L**	670
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	**mg/L**	< 0.050
Nitrate (as N)	**mg/L**	16.9
Nitrite (as N)	**mg/L**	0.033
Total phosphorus	**mg/L**	< 0.020
Orthophosphate (P)	**mg/L**	< 0.010
WQ06- Total Metals		
Aluminum	**mg/L**	0.0704
Arsenic	**mg/L**	0.0424
Barium	**mg/L**	0.0534
Cadmium	**mg/L**	0.000111
Chromium	**mg/L**	< 0.0020

Copper	**mg/L**	0.0070
Iron	**mg/L**	0.166
Lead	**mg/L**	0.00105
Manganese	**mg/L**	0.205
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	0.0154
Nickel	**mg/L**	0.0377
Selenium	**mg/L**	0.00211
Silver	**mg/L**	< 0.000040
Thallium	**mg/L**	< 0.000020
Zinc	**mg/L**	< 0.010
WQ07- Dissolved Metals		
Calcium (Dissolved)	**mg/L**	267
Magnesium (Dissolved)	**mg/L**	74.8
Potassium (Dissolved)	**mg/L**	33.2
Sodium (Dissolved)	**mg/L**	352

Sample date		9/11/2026
Sample name		MEL-22
WQ02- Conventional Parameters		
pH	**pH units**	7.85
Turbidity	**NTU**	1.4
Hardness, as CaCO3	**mg/L**	1600
Total alkalinity, as CaCO3	**mg/L**	120
TDS	**mg/L**	4870
TDS, calculated	**mg/L**	4500
TSS	**mg/L**	5
WQ03- Major Ions		
Chloride	**mg/L**	2100
Cyanide	**mg/L**	0.0105
Fluoride	**mg/L**	0.12
Silica	**mg/L**	4.8
Sulfate	**mg/L**	820
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	**mg/L**	11
Nitrate (as N)	**mg/L**	33.0
Nitrite (as N)	**mg/L**	0.289
Total phosphorus	**mg/L**	0.028

Orthophosphate (P)	**mg/L**	< 0.010
WQ06- Total Metals		
Aluminum	**mg/L**	0.089
Arsenic	**mg/L**	0.0155
Barium	**mg/L**	0.0691
Cadmium	**mg/L**	0.000067
Chromium	**mg/L**	< 0.0050
Copper	**mg/L**	0.0034
Iron	**mg/L**	0.170
Lead	**mg/L**	< 0.0010
Manganese	**mg/L**	0.178
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	0.0115
Nickel	**mg/L**	0.0417
Selenium	**mg/L**	0.00195
Silver	**mg/L**	< 0.00010
Thallium	**mg/L**	< 0.000050
Zinc	**mg/L**	< 0.025
WQ07- Dissolved Metals		
Calcium (Dissolved)	**mg/L**	381
Magnesium (Dissolved)	**mg/L**	125
Potassium (Dissolved)	**mg/L**	68.0
Sodium (Dissolved)	**mg/L**	787

Sample date		9/12/2026
Sample name		MEL-23
WQ02- Conventional Parameters		
pH	**pH units**	8.14
Turbidity	**NTU**	0.6
Hardness, as CaCO3	**mg/L**	1690
Total alkalinity, as CaCO3	**mg/L**	150
TDS	**mg/L**	4830
TDS, calculated	**mg/L**	4400
TSS	**mg/L**	3
WQ03- Major Ions		
Chloride	**mg/L**	2000
Cyanide	**mg/L**	0.00543
Fluoride	**mg/L**	0.25
Silica	**mg/L**	5.5

Sulfate	**mg/L**	930
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	**mg/L**	1.7
Nitrate (as N)	**mg/L**	17.5
Nitrite (as N)	**mg/L**	0.404
Total phosphorus	**mg/L**	< 0.020
Orthophosphate (P)	**mg/L**	< 0.010
WQ06- Total Metals		
Aluminum	**mg/L**	< 0.015
Arsenic	**mg/L**	0.0177
Barium	**mg/L**	0.0537
Cadmium	**mg/L**	0.000165
Chromium	**mg/L**	< 0.0050
Copper	**mg/L**	0.0048
Iron	**mg/L**	< 0.050
Lead	**mg/L**	< 0.0010
Manganese	**mg/L**	0.321
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	0.0133
Nickel	**mg/L**	0.133
Selenium	**mg/L**	0.00194
Silver	**mg/L**	< 0.00010
Thallium	**mg/L**	< 0.000050
Zinc	**mg/L**	< 0.025
WQ07- Dissolved Metals		
Calcium (Dissolved)	**mg/L**	338
Magnesium (Dissolved)	**mg/L**	152
Potassium (Dissolved)	**mg/L**	65.8
Sodium (Dissolved)	**mg/L**	767

Sample date		9/11/2026
Sample name		MEL-29
Parameter	**Unit**	
WQ02- Conventional Parameters		
pH	**pH units**	8.00
Turbidity	**NTU**	1.3
Hardness, as CaCO3	**mg/L**	875
Total alkalinity, as CaCO3	**mg/L**	110
TDS	**mg/L**	2150

TDS, calculated	**mg/L**	2000
TSS	**mg/L**	4
WQ03- Major Ions		
Chloride	**mg/L**	560
Cyanide	**mg/L**	0.00385
Fluoride	**mg/L**	0.31
Silica	**mg/L**	5.6
Sulfate	**mg/L**	590
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	**mg/L**	18
Nitrate (as N)	**mg/L**	44.1
Nitrite (as N)	**mg/L**	0.346
Total phosphorus	**mg/L**	< 0.020
Orthophosphate (P)	**mg/L**	< 0.010
WQ06- Total Metals		
Aluminum	**mg/L**	0.0618
Arsenic	**mg/L**	0.0171
Barium	**mg/L**	0.0821
Cadmium	**mg/L**	0.000074
Chromium	**mg/L**	< 0.0010
Copper	**mg/L**	0.00807
Iron	**mg/L**	0.089
Lead	**mg/L**	0.00061
Manganese	**mg/L**	0.341
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	0.0085
Nickel	**mg/L**	0.113
Selenium	**mg/L**	0.00107
Silver	**mg/L**	< 0.000020
Thallium	**mg/L**	0.000037
Titanium	**mg/L**	< 0.0050
Zinc	**mg/L**	< 0.0050
WQ07- Dissolved Metals		
Calcium (Dissolved)	**mg/L**	192
Magnesium (Dissolved)	**mg/L**	76.4
Potassium (Dissolved)	**mg/L**	29.9
Sodium (Dissolved)	**mg/L**	256

Sample date		9/11/2026
Sample name		MEL-32
Parameter	**Unit**	
WQ02- Conventional Parameters		
pH	**pH units**	7.95
Turbidity	**NTU**	1.4
Hardness, as CaCO3	**mg/L**	486
Total alkalinity, as CaCO3	**mg/L**	100
TDS	**mg/L**	1370
TDS, calculated	**mg/L**	1200
TSS	**mg/L**	2
WQ03- Major Ions		
Chloride	**mg/L**	460
Cyanide	**mg/L**	0.0146
Fluoride	**mg/L**	< 0.10
Silica	**mg/L**	2.7
Sulfate	**mg/L**	210
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	**mg/L**	11
Nitrate (as N)	**mg/L**	24.7
Nitrite (as N)	**mg/L**	0.180
Total phosphorus	**mg/L**	< 0.020
Orthophosphate (P)	**mg/L**	< 0.010
WQ06- Total Metals		
Aluminum	**mg/L**	0.0357
Arsenic	**mg/L**	0.00812
Barium	**mg/L**	0.0307
Cadmium	**mg/L**	0.000048
Chromium	**mg/L**	< 0.0010
Copper	**mg/L**	0.00318
Iron	**mg/L**	0.063
Lead	**mg/L**	< 0.00020
Manganese	**mg/L**	0.111
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	0.0046
Nickel	**mg/L**	0.0121
Selenium	**mg/L**	0.00080
Silver	**mg/L**	< 0.000020
Thallium	**mg/L**	0.000016
Titanium	**mg/L**	< 0.0050

Zinc	**mg/L**	< 0.0050
WQ07- Dissolved Metals		
Calcium (Dissolved)	**mg/L**	139
Magnesium (Dissolved)	**mg/L**	25.3
Potassium (Dissolved)	**mg/L**	19.4
Sodium (Dissolved)	**mg/L**	180

Sample date		9/12/2026	9/27/2026
Sample name		MEL-SR1	MEL-SR1
Parameter	**Unit**		
WQ02- Conventional Parameters			
pH	**pH units**	8.20	8.15
Turbidity	**NTU**	1.0	27
Hardness, as CaCO3	**mg/L**	514	469
Total alkalinity, as CaCO3	**mg/L**	210	180
TDS, calculated	**mg/L**	1100	930
TSS	**mg/L**	2	54
WQ03- Major Ions			
Chloride	**mg/L**	370	350
Cyanide	**mg/L**	<0.00050	<0.00050
Fluoride	**mg/L**	0.18	0.13
Silica	**mg/L**	5.2	4.5
Sulfate	**mg/L**	200	160
WQ04- Nutrients and Chlorophyll a			
Ammonia Nitrogen (as N)	**mg/L**	0.075	<0.050
Nitrate (as N)	**mg/L**	0.81	0.39
Nitrite (as N)	**mg/L**	<0.010	<0.010
Total phosphorus	**mg/L**	<0.020	0.042
Orthophosphate (P)	**mg/L**	<0.010	<0.010
WQ05- General Organics			
Total oil and grease	**mg/L**	2.7	<0.50
WQ06- Total Metals			
Aluminum	**mg/L**	0.0748	1.14
Arsenic	**mg/L**	0.00776	0.00732
Barium	**mg/L**	0.0537	0.0628
Cadmium	**mg/L**	0.000033	0.000019
Chromium	**mg/L**	<0.0010	0.0069
Copper	**mg/L**	0.00478	0.00474

Iron	**mg/L**	0.218	2.48
Lead	**mg/L**	<0.00020	0.00092
Manganese	**mg/L**	0.0253	0.0556
Mercury	**mg/L**	<0.00001	<0.00001
Molybdenum	**mg/L**	0.0013	0.0017
Nickel	**mg/L**	0.0477	0.0146
Selenium	**mg/L**	0.00015	0.00011
Silver	**mg/L**	<0.000020	<0.000020
Thallium	**mg/L**	0.000012	0.000017
Zinc	**mg/L**	0.0359	0.0224
WQ07- Dissolved Metals			
Calcium (Dissolved)	**mg/L**	136	140
Magnesium (Dissolved)	**mg/L**	39.5	30.4
Potassium (Dissolved)	**mg/L**	16.3	17.8
Sodium (Dissolved)	**mg/L**	203	131