



**Meliadine Gold Mine
NWB 2AM-MEL1631
September 2023 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 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 September 2023.

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 September 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	44,663	40,080	-	-	-	371,100
Dust suppression ²	m ³	0	0	0	0	0	0	0	0	0	-	-	-	0
Dust suppression ³	m ³	0	0	0	0	0	264	2,080	3,455	72	-	-	-	5,871

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);
- 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 September 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	54,894	184,508	-	-	-	529,545
MEL-26	m ³	0	0	0	0	0	0	0	0	0	-	-	-	0
MEL-25	m ³	0	0	0	0	2,060	0	510	0	0	-	-	-	2,570

Discharge of treated effluent from the EWTP into Meliadine Lake via the Final Discharge Point (MEL-14) started on June 10th, 2023 and was completed on September 30th, 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 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 September 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		4,913	4,960	-	-	-	42,973
Sewage Sludge	Amount (m ³)	17	7	20.5	18	21	19	1	17	5	16	15	-	-	-	156.5
	Disposal Location	WRSF1	WRSF3	WRSF3	WRSF3	WRSF3	WRSF1	WRSF3	WRSF3	WRSF1	WRSF1	WRSF1	-	-	-	NA

2.6 MONITORING ANALYTICAL DATA

Seventeen (17) 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			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	0.05	41.5	3	5.5	46.05	0.25	0.07	1.55	1	-	-	-	98.97

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 September 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	153,272	147,832	-	-	-	1,405,144
Waste Rock	Removed from open pit mining	50,606	42,866	114,885	159,630	287,354	249,975	372,511	435,222	534,927	-	-	-	2,247,976
	Removed from underground mining	67,109	51,780	70,674	73,390	81,439	56,214	63,078	52,904	65,080	-	-	-	581,668
	Used as underground dry rockfill	51,834	48,024	35,017	18,200	44,224	42,578	29,540	27,102	44,190	-	-	-	340,709
Tailings	Send to TSF	133,227	121,499	132,300	110,473	125,285	112,728	124,335	117,102	110,412	-	-	-	1,086,490
	Used as paste underground backfill	22,287	29,377	39,069	38,556	45,670	24,901	42,333	39,041	37,420	-	-	-	318,654

SECTION 4 SPILL MANAGEMENT

4.1 INTERNAL AND REPORTABLE SPILLS

Spills reported internally (7) 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 spill or exceedance occurred during the month (Refer to the gray shading in Table 4.1).

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

Date and time of occurrence	Contaminant	Estimated quantity	Unit	Exact location of incident	Description of incident	Describe immediate corrective actions
Sunday, September 03, 2023 11:00:00 AM	Coolant	8	L	KCG yard (outside garage #2)	Two collars holding a coolant hose connected to the turbo of a skidsteer came loose, causing a spill of approximately 8 liters of coolant on the ground.	Machine was shut off and the spill was contained using glycol spill pads. Contaminated materials were collected and disposed of as hazmat in quatrex bags.
Tuesday, September 05, 2023 12:30:00 AM	Petroleum products	4	L	New CIL	Light plant was found leaking oil.	Absorbent pads were deployed and contaminated material were disposed of as hazmat in quatrex bag.
Wednesday, September 20, 2023 6:00:00 PM	Sewage	40	L	wing 13	An estimated 40 L of sewage was spilled onto the industrial pad by wing 13 lift station. The pump was unplugged during routine lift station maintenance at wing 13 and was not plugged back in during the restart, causing the spill.	Upon arrival, personnel closed the water source to prevent any further spillage. A vacuum truck was brought up to pump the water in the basin and the secondary containment. Spill pads were laid out to soak up any remaining wastewater on the ground. These pads

						were then disposed of in the incinerator. The ground surface was also hand excavated, and the recovered material was brought to Landfarm A.
Friday, September 22, 2023 2:30:00 AM	Grease water	80	L	Kitchen Grease trap	The red-light strobe was found blinking, indicating a pump failure. This led the kitchen grease trap to overflow.	The spilled water was vacuumed back into the grease trap. Absorbent pads were deployed and disposed of in a quatrex bag at the hazmat laydown.
Sunday, September 24, 2023 2:30:00 AM	Oil	13	L	Haul road intersection near paste plant	Final drive oil cap on an excavator was not tightened enough after the preventive maintenance, releasing 13L of oil on the haul road.	The excavator was stopped. The contaminated area was scrapped and material was brought to the landfarm.
Thursday, September 28, 2023 1:00:00 PM	Coolant	1	L	MSB parking	1L of coolant leaked from the radiator of an underground pickup.	Absorbent pads were deployed, and a bucket put under the pickup. Contaminated pads were disposed of as per procedure.
Saturday, September 30, 2023 3:00:00 AM	Coolant	3	L	Dion dome	Employees were winterizing the water pump on the jet stream in Dion dome and to do so they needed to make the pump run to expulse the water and coolant in it. They made it run until they saw coolant coming out of the pump, which spilled on the ground before they got time to shut down the engine of the pump.	Coolant absorbent pads was deployed and disposed of in a quadrex bag. The contaminated soils were hand excavated and also placed into quadrex bags.

Appendix – Monitoring Analytical Data

MEL-11		9/6/2023
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.29
Turbidity	NTU	0.3
Specific conductivity	umhos/cm	110
Hardness, as CaCO ₃	mg/L	26.2
Total alkalinity, as CaCO ₃	mg/L	18
Carbonate, as CaCO ₃	mg/L	< 1.0
Bicarbonate, as CaCO ₃	mg/L	18
TDS	mg/L	55
TDS, calculated	mg/L	48
TSS	mg/L	< 1
Total organic carbon	mg/L	3.3
Dissolved organic carbon	mg/L	3.4
WQ03- Major Ions		
Chloride	mg/L	14
Cyanide	mg/L	< 0.00050
Cyanide (free)	mg/L	< 0.0020
Cyanide (WAD)	mg/L	< 0.00050
Silica	mg/L	0.51
Sulfate	mg/L	5.2
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	0.16
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	0.00054
Barium	mg/L	0.0070
Beryllium	mg/L	< 0.00010
Boron	mg/L	< 0.050
Cadmium	mg/L	< 0.000010
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00070
Iron	mg/L	0.016
Lead	mg/L	< 0.00020
Lithium	mg/L	< 0.0020

Manganese	mg/L	0.0045
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	< 0.0010
Silicon	mg/L	0.22
Silver	mg/L	< 0.000020
Strontium	mg/L	0.0430
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	0.00058
Barium	mg/L	0.0078
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
Copper	mg/L	0.00073
Iron	mg/L	< 0.0050
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	1.08
Selenium	mg/L	< 0.00010
Silver	mg/L	< 0.000020
Sodium (Dissolved)	mg/L	6.71
Strontium	mg/L	0.0500
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

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		9/11/2023
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.92
Turbidity	NTU	0.4
Specific conductivity	umhos/cm	3300
Hardness, as CaCO ₃	mg/L	580
Total alkalinity, as CaCO ₃	mg/L	89
TDS	mg/L	1960
TDS, calculated	mg/L	1900
TSS	mg/L	7
Total organic carbon	mg/L	11
WQ03- Major Ions		
Chloride	mg/L	870
Cyanide	mg/L	0.00142
Silica	mg/L	0.28
Sulfate	mg/L	300
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	0.68
Nitrate (as N)	mg/L	7.66
Nitrite (as N)	mg/L	0.247
Total phosphorus	mg/L	0.10
Orthophosphate (P)	mg/L	0.062
WQ06- Total Metals		
Aluminum	mg/L	0.115
Antimony	mg/L	0.00076
Arsenic	mg/L	0.0117
Barium	mg/L	0.0568
Cadmium	mg/L	0.000016

Chromium	mg/L	< 0.0010
Copper	mg/L	0.00259
Iron	mg/L	0.124
Lead	mg/L	0.00030
Lithium	mg/L	0.0376
Manganese	mg/L	0.0728
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0054
Nickel	mg/L	0.0062
Selenium	mg/L	0.00063
Silver	mg/L	< 0.000020
Strontium	mg/L	1.89
Thallium	mg/L	0.000020
Uranium	mg/L	0.00360
Vanadium	mg/L	< 0.0050
Zinc	mg/L	< 0.0050
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	167
Magnesium (Dissolved)	mg/L	52.3
Potassium (Dissolved)	mg/L	28.1
Sodium (Dissolved)	mg/L	364

MEL-13		25/09/2023
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	6.98
Dissolved Oxygen	mg/L	11.0
Turbidity	NTU	0.3
Specific conductivity	umhos/cm	120
Hardness, as CaCO ₃	mg/L	33.5
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	70
TDS, calculated	mg/L	60
TSS	mg/L	< 1
Total organic carbon	mg/L	3.6
Dissolved organic carbon	mg/L	3.6
WQ03- Major Ions		
Chloride	mg/L	16

Cyanide	mg/L	< 0.00050
Cyanide (free)	mg/L	< 0.0020
Cyanide (WAD)	mg/L	< 0.00050
Silica	mg/L	0.67
Sulfate	mg/L	7.4
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	0.22
Total phosphorus	mg/L	0.021 0.0068
Dissolved phosphorus	mg/L	0.0040
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	0.00244
Antimony	mg/L	< 0.000020
Arsenic	mg/L	0.000599
Barium	mg/L	0.00873
Beryllium	mg/L	< 0.000010
Boron	mg/L	< 0.01
Cadmium	mg/L	< 0.0000050
Chromium	mg/L	0.00016
Cobalt	mg/L	0.0000210
Copper	mg/L	0.000878
Iron	mg/L	0.0123
Lead	mg/L	< 0.0000050
Lithium	mg/L	0.00120
Manganese	mg/L	0.00499
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.000162
Nickel	mg/L	0.000707
Selenium	mg/L	0.000043
Silver	mg/L	< 0.0000050
Strontium	mg/L	0.0615
Thallium	mg/L	0.0000020
Tin	mg/L	< 0.00020
Titanium	mg/L	< 0.00050
Uranium	mg/L	0.0000240
Vanadium	mg/L	< 0.00020
Zinc	mg/L	0.00018
WQ07- Dissolved Metals		
Aluminum	mg/L	0.00134
Antimony	mg/L	< 0.000020

Arsenic	mg/L	0.000553
Barium	mg/L	0.00867
Beryllium	mg/L	< 0.000010
Boron	mg/L	0.012
Cadmium	mg/L	< 0.0000050
Calcium (Dissolved)	mg/L	10.8
Chromium	mg/L	< 0.00010
Cobalt	mg/L	0.0000132
Copper	mg/L	0.000784
Iron	mg/L	0.0038
Lead	mg/L	< 0.0000050
Lithium	mg/L	0.00133
Magnesium (Dissolved)	mg/L	1.99
Manganese	mg/L	0.000370
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.000135
Nickel	mg/L	0.000733
Potassium (Dissolved)	mg/L	1.28
Selenium	mg/L	< 0.000040
Silver	mg/L	< 0.0000050
Sodium (Dissolved)	mg/L	9.27
Strontium	mg/L	0.0640
Thallium	mg/L	0.0000029
Tin	mg/L	< 0.00020
Titanium	mg/L	< 0.00050
Uranium	mg/L	0.0000278
Vanadium	mg/L	< 0.00020
Zinc	mg/L	0.00041
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						9/3/2023	9/11/2023	9/18/2023	9/25/2023
Parameter	MDMER MAX GRAB	MDMER MAX MONTHLY MEAN	2AM- MEL1631 MEL-14 MAX GRAB	2AM- MEL1631 MEL-14 MAX MEAN	Unit				
WQ02- Conventional Parameters									
pH	9.5	9.5	9.5	9.5	pH units	7.42	7.86	7.58	7.61
Dissolved Oxygen					mg/L	10.5	10.3	9.90	8.18
Turbidity					NTU	0.4	0.4	0.4	0.5
Specific conductivity					umhos/cm	3000	3300	3500	3600
Hardness, as CaCO3					mg/L	551	604	581	844
Total alkalinity, as CaCO3					mg/L	68	80	81	88
Carbonate, as CaCO3					mg/L	< 1.0	< 1.0	< 1.0	< 1.0
Bicarbonate, as CaCO3					mg/L	68	79	80	87
TDS			4500	3500	mg/L	1880	1810	1890	2140
TDS, calculated			4500	3500	mg/L	1500	1700	1900	2100
TSS	30	15	30	15	mg/L	9	4	3	3
Total organic carbon					mg/L	8.8	10	10	11
Dissolved organic carbon					mg/L	7.6	9.9	9.9	10
WQ03- Major Ions									
Chloride					mg/L	650	720	780	960
Cyanide	1	0.5	1	0.5	mg/L	0.00104	0.00082	0.00083	0.00092
Cyanide (free)					mg/L	< 0.0020	0.0064	< 0.0020	< 0.0020
Cyanide (WAD)					mg/L	0.00083	0.00085	0.00089	0.00099
Silica					mg/L	0.38	0.38	0.27	0.54
Sulfate					mg/L	250	300	310	340
WQ04- Nutrients and Chlorophyll a									
Ammonia Nitrogen (as N)			18	14	mg/L	0.68	0.65	0.43	0.28

Nitrate (as N)					mg/L	5.77	7.66	10.1	11.6
Nitrite (as N)					mg/L	0.468	0.253	0.289	0.208
Total Kjeldahl nitrogen					mg/L	1.6	1.4	0.67	0.90
Total phosphorus			4	2	mg/L	0.028	0.034	0.024	0.035
Orthophosphate (P)					mg/L	< 0.010	0.010	< 0.010	< 0.010
WQ06- Total Metals									
Aluminum			3	2	mg/L	0.866	0.340	0.339	0.450
Antimony					mg/L	0.00073	0.00080	< 0.0010	< 0.0010
Arsenic	0.6	0.3	0.6	0.3	mg/L	0.00619	0.00536	0.00327	0.00582
Barium					mg/L	0.0554	0.0601	0.0536	0.0827
Beryllium					mg/L	< 0.00010	< 0.00010	< 0.00020	< 0.00020
Boron					mg/L	0.318	0.317	0.34	0.41
Cadmium					mg/L	0.000011	0.000012	< 0.000020	< 0.000020
Chromium					mg/L	< 0.0010	< 0.0010	< 0.0020	< 0.0020
Cobalt					mg/L	0.00104	0.00104	0.00083	0.00110
Copper	0.6	0.3	0.4	0.2	mg/L	0.00199	0.00234	0.0022	0.0024
Iron					mg/L	0.092	0.020	< 0.020	0.024
Lead	0.2	0.1	0.2	0.1	mg/L	< 0.00020	< 0.00020	< 0.00040	< 0.00040
Lithium					mg/L	0.0410	0.0387	0.0413	0.0516
Manganese					mg/L	0.0725	0.0563	0.0340	0.0737
Mercury					mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum					mg/L	0.0062	0.0057	0.0046	0.0061
Nickel	1	0.5	1	0.5	mg/L	0.0055	0.0062	0.0050	0.0065
Selenium					mg/L	0.00060	0.00069	0.00070	0.00092
Silver					mg/L	< 0.000020	< 0.000020	< 0.000040	< 0.000040
Strontium					mg/L	1.99	1.98	1.74	2.75
Thallium					mg/L	< 0.000010	0.000022	0.000021	0.000022
Tin					mg/L	< 0.0050	< 0.0050	< 0.010	< 0.010
Titanium					mg/L	< 0.0050	< 0.0050	< 0.010	< 0.010
Uranium					mg/L	0.00121	0.00317	0.00228	0.00385
Vanadium					mg/L	< 0.0050	< 0.0050	< 0.010	< 0.010
Zinc	1	0.5	0.8	0.4	mg/L	< 0.0050	< 0.0050	< 0.010	< 0.010

WQ07- Dissolved Metals									
Aluminum			3	2	mg/L	0.0724	0.141	0.122	0.117
Antimony					mg/L	0.00071	0.00083	< 0.0010	< 0.0010
Arsenic	0.6	0.3	0.6	0.3	mg/L	0.00259	0.00453	0.00317	0.00375
Barium					mg/L	0.0569	0.0623	0.0676	0.0724
Beryllium					mg/L	< 0.00010	< 0.00010	< 0.00020	< 0.00020
Boron					mg/L	0.338	0.335	0.35	0.36
Cadmium					mg/L	< 0.000010	< 0.000010	< 0.000020	< 0.000020
Calcium (Dissolved)					mg/L	147	171	187	197
Chromium					mg/L	< 0.0010	< 0.0010	< 0.0020	< 0.0020
Cobalt					mg/L	0.00094	0.00107	0.00101	0.00098
Copper	0.6	0.3	0.4	0.2	mg/L	0.00541	0.00233	0.00222	0.00219
Iron					mg/L	0.0155	0.0138	< 0.010	< 0.010
Lead	0.2	0.1	0.2	0.1	mg/L	< 0.00020	< 0.00020	< 0.00040	< 0.00040
Lithium					mg/L	0.0401	0.0407	0.0440	0.0444
Magnesium (Dissolved)					mg/L	50.4	51.8	56.6	58.8
Manganese					mg/L	0.0666	0.0539	0.0376	0.0664
Mercury					mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum					mg/L	0.0061	0.0061	0.0060	0.0056
Nickel	1	0.5	1	0.5	mg/L	0.0061	0.0066	0.0061	0.0056
Potassium (Dissolved)					mg/L	26.4	28.1	31.0	30.7
Selenium					mg/L	0.00056	0.00071	0.00077	0.00085
Silver					mg/L	< 0.000020	< 0.000020	< 0.000040	< 0.000040
Sodium (Dissolved)					mg/L	322	364	396	402
Strontium					mg/L	2.11	2.08	2.28	2.38
Thallium					mg/L	< 0.000010	0.000020	0.000021	< 0.000020
Tin					mg/L	< 0.0050	< 0.0050	< 0.010	< 0.010
Titanium					mg/L	< 0.0050	< 0.0050	< 0.010	< 0.010
Uranium					mg/L	0.00086	0.00330	0.00268	0.00335
Vanadium					mg/L	< 0.0050	< 0.0050	< 0.010	< 0.010
Zinc	1	0.5	0.8	0.4	mg/L	< 0.0050	0.0053	< 0.010	< 0.010

WQ08- Radionuclides									
Radium-226	1.11	0.37			Bq/l	< 0.0050	0.0060	< 0.0050	0.027
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	0.00030	0.00024	0.00024
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	< 0.1	< 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	< 0.2

MEL-15		9/10/2023
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.78
Turbidity	NTU	0.4
Specific conductivity	umhos/cm	180
Hardness, as CaCO ₃	mg/L	57.4
Total alkalinity, as CaCO ₃	mg/L	51
Carbonate, as CaCO ₃	mg/L	< 1.0
Bicarbonate, as CaCO ₃	mg/L	51
TDS	mg/L	115
TDS, calculated	mg/L	-
TSS	mg/L	1
Total organic carbon	mg/L	4.8
Dissolved organic carbon	mg/L	4.8
WQ03- Major Ions		
Chloride	mg/L	15
Cyanide	mg/L	< 0.00050
Cyanide (free)	mg/L	0.0025
Cyanide (WAD)	mg/L	< 0.00050
Silica	mg/L	2.4
Sulfate	mg/L	20
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	0.29
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	0.00152
Barium	mg/L	0.0139
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	0.00059

Iron	mg/L	0.081
Lead	mg/L	< 0.00020
Lithium	mg/L	< 0.0020
Manganese	mg/L	0.0071
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	0.0997
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
WQ07- Dissolved Metals		
Aluminum	mg/L	< 0.0030
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.00163
Barium	mg/L	0.0180
Beryllium	mg/L	< 0.00010
Boron	mg/L	< 0.050
Cadmium	mg/L	< 0.000010
Calcium (Dissolved)	mg/L	25.3
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00068
Iron	mg/L	0.0625
Lead	mg/L	< 0.00020
Lithium	mg/L	< 0.0020
Magnesium (Dissolved)	mg/L	2.81
Manganese	mg/L	0.0064
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	0.0011
Potassium (Dissolved)	mg/L	1.45
Selenium	mg/L	< 0.00010
Silver	mg/L	< 0.000020
Sodium (Dissolved)	mg/L	7.46
Strontium	mg/L	0.133
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

MEL-16		9/10/2023
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.75
Turbidity	NTU	0.4
Specific conductivity	umhos/cm	160
Hardness, as CaCO ₃	mg/L	52.8
Total alkalinity, as CaCO ₃	mg/L	42
Carbonate, as CaCO ₃	mg/L	< 1.0
Bicarbonate, as CaCO ₃	mg/L	42
TDS	mg/L	70
TDS, calculated	mg/L	75
TSS	mg/L	5
Total organic carbon	mg/L	4.6
Dissolved organic carbon	mg/L	4.6
WQ03- Major Ions		
Chloride	mg/L	18
Cyanide	mg/L	< 0.00050
Cyanide (free)	mg/L	0.0030
Cyanide (WAD)	mg/L	< 0.00050
Silica	mg/L	0.82
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	0.32
Total phosphorus	mg/L	< 0.020
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	0.0051
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.00696
Barium	mg/L	0.0230
Beryllium	mg/L	< 0.00010
Bismuth	mg/L	< 0.0010
Cadmium	mg/L	< 0.000010
Chromium	mg/L	< 0.0010

Copper	mg/L	0.00099
Iron	mg/L	0.084
Lead	mg/L	< 0.00020
Lithium	mg/L	< 0.0020
Manganese	mg/L	0.0055
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	0.0926
Thallium	mg/L	< 0.000010
Tin	mg/L	< 0.0050
Titanium	mg/L	< 0.0050
Uranium	mg/L	< 0.00010
Zinc	mg/L	< 0.0050
WQ07- Dissolved Metals		
Aluminum	mg/L	< 0.0030
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.00645
Barium	mg/L	0.0238
Beryllium	mg/L	< 0.00010
Bismuth	mg/L	< 0.0010
Cadmium	mg/L	< 0.000010
Calcium (Dissolved)	mg/L	18.1
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00097
Iron	mg/L	0.0435
Lead	mg/L	< 0.00020
Lithium	mg/L	< 0.0020
Magnesium (Dissolved)	mg/L	2.44
Manganese	mg/L	0.0018
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	< 0.0010
Potassium (Dissolved)	mg/L	1.47
Selenium	mg/L	< 0.00010
Silver	mg/L	< 0.000020
Sodium (Dissolved)	mg/L	5.10
Strontium	mg/L	0.0956
Thallium	mg/L	< 0.000010
Tin	mg/L	< 0.0050
Titanium	mg/L	< 0.0050
Uranium	mg/L	< 0.00010

Zinc	mg/L	< 0.0050
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MEL-17		9/10/2023
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.89
Turbidity	NTU	0.9
Specific conductivity	umhos/cm	330
Hardness, as CaCO ₃	mg/L	115
Total alkalinity, as CaCO ₃	mg/L	74
Carbonate, as CaCO ₃	mg/L	< 1.0
Bicarbonate, as CaCO ₃	mg/L	73
TDS	mg/L	230
TDS, calculated	mg/L	170
TSS	mg/L	1
Total organic carbon	mg/L	10
Dissolved organic carbon	mg/L	9.6
WQ03- Major Ions		
Chloride	mg/L	42
Cyanide	mg/L	< 0.00050
Cyanide (free)	mg/L	0.0025
Cyanide (WAD)	mg/L	< 0.00050
Silica	mg/L	3.5
Sulfate	mg/L	26
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	0.056
Nitrate (as N)	mg/L	< 0.10
Nitrite (as N)	mg/L	< 0.010
Total Kjeldahl nitrogen	mg/L	0.52
Total phosphorus	mg/L	< 0.020
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	0.0038
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.00089
Barium	mg/L	0.0338
Beryllium	mg/L	< 0.00010
Boron	mg/L	< 0.050
Cadmium	mg/L	< 0.000010
Calcium (total)	mg/L	37.8
Chromium	mg/L	< 0.0010

Copper	mg/L	0.00095
Iron	mg/L	0.190
Lead	mg/L	< 0.00020
Lithium	mg/L	0.0040
Manganese	mg/L	0.0425
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	0.0018
Selenium	mg/L	< 0.00010
Silver	mg/L	< 0.000020
Strontium	mg/L	0.250
Thallium	mg/L	< 0.000010
Tin	mg/L	< 0.0050
Titanium	mg/L	< 0.0050
Uranium	mg/L	0.00015
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	0.00083
Barium	mg/L	0.0344
Beryllium	mg/L	< 0.00010
Boron	mg/L	< 0.050
Cadmium	mg/L	< 0.000010
Calcium (Dissolved)	mg/L	36.3
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00087
Iron	mg/L	0.153
Lead	mg/L	< 0.00020
Lithium	mg/L	0.0034
Magnesium (Dissolved)	mg/L	4.56
Manganese	mg/L	0.0636
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	0.0017
Potassium (Dissolved)	mg/L	2.48
Silicon	mg/L	1.63
Silver	mg/L	< 0.000020
Sodium (Dissolved)	mg/L	11.2
Strontium	mg/L	0.234
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

MEL-18		9/10/2023
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.86
Turbidity	NTU	0.7
Specific conductivity	umhos/cm	210
Hardness, as CaCO ₃	mg/L	64.8
Total alkalinity, as CaCO ₃	mg/L	49
Carbonate, as CaCO ₃	mg/L	< 1.0
Bicarbonate, as CaCO ₃	mg/L	48
TDS	mg/L	135
TDS, calculated	mg/L	110
TSS	mg/L	2
Total organic carbon	mg/L	4.9
Dissolved organic carbon	mg/L	4.6
WQ03- Major Ions		
Chloride	mg/L	28
Cyanide	mg/L	0.00050
Cyanide (free)	mg/L	0.0028
Cyanide (WAD)	mg/L	< 0.00050
Silica	mg/L	1.1
Sulfate	mg/L	10
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	0.0053
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.00294
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
Cobalt	mg/L	< 0.00020
Copper	mg/L	0.00066
Iron	mg/L	0.090
Lead	mg/L	< 0.00020
Lithium	mg/L	0.0083
Manganese	mg/L	0.0088
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	0.153
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	0.00253
Barium	mg/L	0.0191
Beryllium	mg/L	< 0.00010
Boron	mg/L	< 0.050
Cadmium	mg/L	< 0.000010
Calcium (Dissolved)	mg/L	24.9
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00072
Iron	mg/L	0.0331
Lead	mg/L	< 0.00020
Lithium	mg/L	0.0097
Magnesium (Dissolved)	mg/L	3.31
Manganese	mg/L	0.0019
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	< 0.0010
Potassium (Dissolved)	mg/L	1.54
Selenium	mg/L	< 0.00010
Silver	mg/L	< 0.000020
Sodium (Dissolved)	mg/L	7.37
Strontium	mg/L	0.180
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		9/10/2023
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	8.01
Turbidity	NTU	0.4
Hardness, as CaCO ₃	mg/L	1010
Total alkalinity, as CaCO ₃	mg/L	140
TDS	mg/L	3090
TDS, calculated	mg/L	3000
TSS	mg/L	3
WQ03- Major Ions		
Chloride	mg/L	1300
Cyanide	mg/L	0.00121
Fluoride	mg/L	0.17
Silica	mg/L	3.9
Sulfate	mg/L	580
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	0.53
Nitrate (as N)	mg/L	7.71
Nitrite (as N)	mg/L	0.133
Total phosphorus	mg/L	< 0.020
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	0.0256
Antimony	mg/L	0.0030
Arsenic	mg/L	0.0146
Barium	mg/L	0.0728
Beryllium	mg/L	< 0.00020
Boron	mg/L	0.12
Cadmium	mg/L	0.000100
Chromium	mg/L	< 0.0020
Copper	mg/L	0.0057
Iron	mg/L	0.038
Lead	mg/L	< 0.00040
Lithium	mg/L	0.0152
Manganese	mg/L	0.216

Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0048
Nickel	mg/L	0.0651
Selenium	mg/L	0.00110
Silver	mg/L	< 0.000040
Strontium	mg/L	1.70
Thallium	mg/L	0.000028
Tin	mg/L	< 0.010
Titanium	mg/L	< 0.010
Uranium	mg/L	0.0231
Vanadium	mg/L	< 0.010
Zinc	mg/L	< 0.010
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	282
Magnesium (Dissolved)	mg/L	90.2
Potassium (Dissolved)	mg/L	34.6
Sodium (Dissolved)	mg/L	569

MEL-20		9/10/2023
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.69
Turbidity	NTU	1.7
Specific conductivity	umhos/cm	12000
Hardness, as CaCO ₃	mg/L	2030
Total alkalinity, as CaCO ₃	mg/L	130
TDS	mg/L	7940
TDS, calculated	mg/L	7500
TSS	mg/L	11
WQ03- Major Ions		
Chloride	mg/L	3300
Cyanide	mg/L	0.00769
Cyanide (free)	mg/L	0.0051
Cyanide (WAD)	mg/L	0.0029
Silica	mg/L	5.9
Sulfate	mg/L	1200
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	40
Nitrate (as N)	mg/L	123
Nitrite (as N)	mg/L	1.54
Total phosphorus	mg/L	0.045

Orthophosphate (P)	mg/L	0.020
WQ06- Total Metals		
Aluminum	mg/L	0.187
Antimony	mg/L	< 0.0025
Arsenic	mg/L	0.121
Barium	mg/L	0.115
Cadmium	mg/L	0.000695
Chromium	mg/L	< 0.0050
Copper	mg/L	0.0124
Iron	mg/L	0.564
Lead	mg/L	0.0076
Lithium	mg/L	0.026
Manganese	mg/L	1.37
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0140
Nickel	mg/L	0.107
Selenium	mg/L	0.00903
Silver	mg/L	< 0.00010
Strontium	mg/L	4.30
Thallium	mg/L	0.000087
Tin	mg/L	< 0.025
Titanium	mg/L	< 0.025
Uranium	mg/L	0.0269
Vanadium	mg/L	< 0.025
Zinc	mg/L	< 0.025
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	483
Magnesium (Dissolved)	mg/L	216
Potassium (Dissolved)	mg/L	87.4
Sodium (Dissolved)	mg/L	1510

MEL-21		9/10/2023
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	8.06
Turbidity	NTU	1.2
Hardness, as CaCO ₃	mg/L	858
Total alkalinity, as CaCO ₃	mg/L	120
TDS	mg/L	2270
TDS, calculated	mg/L	2300
TSS	mg/L	4
WQ03- Major Ions		

Chloride	mg/L	860
Cyanide	mg/L	0.00244
Fluoride	mg/L	0.17
Silica	mg/L	3.5
Sulfate	mg/L	520
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	0.14
Nitrate (as N)	mg/L	17.4
Nitrite (as N)	mg/L	0.054
Total phosphorus	mg/L	0.021
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	0.0659
Antimony	mg/L	0.00189
Arsenic	mg/L	0.0375
Barium	mg/L	0.0630
Cadmium	mg/L	0.000073
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00489
Iron	mg/L	0.146
Lead	mg/L	0.00148
Lithium	mg/L	0.0229
Manganese	mg/L	0.241
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0124
Nickel	mg/L	0.0354
Selenium	mg/L	0.00104
Silver	mg/L	< 0.000020
Thallium	mg/L	0.000018
Zinc	mg/L	0.0070
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	246
Magnesium (Dissolved)	mg/L	80.2
Potassium (Dissolved)	mg/L	27.5
Sodium (Dissolved)	mg/L	375

MEL-22		9/10/2023
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.81
Turbidity	NTU	3.8
Hardness, as CaCO ₃	mg/L	1790

Total alkalinity, as CaCO ₃	mg/L	110
TDS	mg/L	4080
TDS, calculated	mg/L	4100
TSS	mg/L	10
WQ03- Major Ions		
Chloride	mg/L	2000
Cyanide	mg/L	0.00139
Fluoride	mg/L	< 0.10
Silica	mg/L	3.6
Sulfate	mg/L	700
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	3.7
Nitrate (as N)	mg/L	5.58
Nitrite (as N)	mg/L	0.070
Total phosphorus	mg/L	0.021
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	0.110
Arsenic	mg/L	0.00530
Barium	mg/L	0.100
Cadmium	mg/L	0.000057
Chromium	mg/L	< 0.0050
Copper	mg/L	0.0044
Iron	mg/L	0.632
Lead	mg/L	< 0.0010
Lithium	mg/L	0.205
Manganese	mg/L	1.10
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0056
Nickel	mg/L	0.0428
Selenium	mg/L	< 0.00050
Silver	mg/L	< 0.00010
Thallium	mg/L	< 0.000050
Zinc	mg/L	< 0.025
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	537
Magnesium (Dissolved)	mg/L	136
Potassium (Dissolved)	mg/L	48.9
Sodium (Dissolved)	mg/L	611

MEL-23	9/10/2023
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Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	8.07
Turbidity	NTU	1.7
Hardness, as CaCO ₃	mg/L	1190
Total alkalinity, as CaCO ₃	mg/L	180
TDS	mg/L	4770
TDS, calculated	mg/L	4600
TSS	mg/L	6
WQ03- Major Ions		
Chloride	mg/L	2000
Cyanide	mg/L	0.00190
Fluoride	mg/L	0.32
Silica	mg/L	4.1
Sulfate	mg/L	900
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	1.5
Nitrate (as N)	mg/L	12.3
Nitrite (as N)	mg/L	0.418
Total phosphorus	mg/L	< 0.020
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	0.068
Antimony	mg/L	0.0029
Arsenic	mg/L	0.00925
Barium	mg/L	0.0567
Cadmium	mg/L	0.000112
Chromium	mg/L	< 0.0050
Copper	mg/L	0.0073
Iron	mg/L	0.121
Lead	mg/L	< 0.0010
Lithium	mg/L	0.031
Manganese	mg/L	0.433
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0139
Nickel	mg/L	0.0979
Selenium	mg/L	0.00147
Silver	mg/L	< 0.00010
Thallium	mg/L	< 0.000050
Uranium	mg/L	0.0262
Zinc	mg/L	< 0.025
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	217

Magnesium (Dissolved)	mg/L	168
Potassium (Dissolved)	mg/L	63.1
Sodium (Dissolved)	mg/L	1070

MEL-25		9/13/2023
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.85
TSS	mg/L	< 1
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	< 0.050
WQ05- General Organics		
Total oil and grease	mg/L	1.1
WQ06- Total Metals		
Arsenic	mg/L	0.00165
Copper	mg/L	0.00452
Lead	mg/L	< 0.00020
Nickel	mg/L	0.0053
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-SR1				9/6/2023
Parameter	MEL-SR MAX GRAB (WSEEP/RO)	MEL-SR MAX MEAN (WSEEP/RO)	Unit	
WQ02- Conventional Parameters				
pH			pH units	7.95
Turbidity			NTU	0.3
Hardness, as CaCO ₃			mg/L	496
Total alkalinity, as CaCO ₃			mg/L	190
TDS			mg/L	1240

TDS, calculated			mg/L	1000
TSS	100	50	mg/L	< 1
WQ03- Major Ions				
Chloride			mg/L	310
Cyanide			mg/L	< 0.00050
Fluoride			mg/L	0.14
Silica			mg/L	5.9
Sulfate			mg/L	270
WQ04- Nutrients and Chlorophyll a				
Ammonia Nitrogen (as N)			mg/L	< 0.050
Nitrate (as N)			mg/L	0.38
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	0.0124
Arsenic			mg/L	0.00224
Barium			mg/L	0.0680
Cadmium			mg/L	0.000021
Chromium			mg/L	< 0.0010
Copper			mg/L	0.00332
Iron			mg/L	0.056
Lead			mg/L	< 0.00020
Lithium			mg/L	0.0197
Manganese			mg/L	0.0128
Mercury			mg/L	< 0.00001
Molybdenum			mg/L	< 0.0010
Nickel			mg/L	0.0182
Selenium			mg/L	0.00011
Silver			mg/L	< 0.000020
Thallium			mg/L	0.000013
Tin			mg/L	< 0.0050
Zinc			mg/L	0.0705
WQ07- Dissolved Metals				
Calcium (Dissolved)			mg/L	166
Magnesium (Dissolved)			mg/L	34.8
Potassium (Dissolved)			mg/L	14.8
Sodium (Dissolved)			mg/L	140