APPENDIX 19 2025 WATER MONITORING STATIONS RESULTS

AGNICO EAGLE

	Sample date	2/6/2025	3/2/2025	5/18/2025
	Sample name	Before Drilling Lake A8	A8 During Drilling	After Drilling Lake A8
Parameter	**Unit**			
WQ01- Field Measured				
Temperature	**°C**	0.5	-0.1	2.7
pH	**pH units**	7.5	8.08	6.93
Conductivity	**uS/cm**	783	779	1364
Dissolved oxygen	**mg/L**	15.39	10.44	2.01
Dissolved oxygen	**%**	107.1	71.4	14.7
Turbidity	**NTU**	1.16	1.6	20.7
WQ02- Conventional Parameters				
pH	**pH units**	7.79	7.35	7.77
Dissolved Oxygen	**%**	-	-	14.7
Conductivity	**ms/cm**	0.819	0.938	1.33
TSS	**mg/L**	< 1	1	92
WQ05- General Organics				
Total oil and grease	**mg/L**	1.1	< 0.5	< 0.5
WQ06- Total Metals				
Aluminum	**mg/L**	0.0054	0.0074	0.343
Antimony	**mg/L**	< 0.0005	< 0.0005	< 0.0005
Arsenic	**mg/L**	0.00918	0.0105	0.194
Barium	**mg/L**	0.075	0.0911	0.164
Beryllium	**mg/L**	< 0.0001	< 0.0001	< 0.0001
Cadmium	**mg/L**	0.00001	< 0.00001	0.000017
Chromium	**mg/L**	< 0.001	< 0.001	0.0015
Cobalt	**mg/L**	< 0.0002	< 0.0002	0.00116
Copper	**mg/L**	0.00181	0.00166	0.00693
Iron	**mg/L**	0.047	0.045	4.95
Lead	**mg/L**	< 0.0002	< 0.0002	0.00271
Lithium	**mg/L**	0.0241	0.0232	0.0449
Manganese	**mg/L**	0.0326	0.0146	0.296
Mercury	**mg/L**	0.00001	< 0.00001	< 0.00001
Molybdenum	**mg/L**	< 0.001	< 0.001	0.0011
Nickel	**mg/L**	0.002	0.002	0.0045
Selenium	**mg/L**	< 0.0001	< 0.0001	0.00012
Strontium	**mg/L**	0.659	0.777	1.35
Thallium	**mg/L**	< 0.00001	< 0.00001	< 0.00001
Tin	**mg/L**	< 0.005	< 0.005	< 0.005
Titanium	**mg/L**	< 0.005	< 0.005	0.012
Uranium	**mg/L**	0.0003	0.0003	0.00059
Vanadium	**mg/L**	< 0.005	< 0.005	< 0.005
Zinc	**mg/L**	0.0096	< 0.005	0.0235
WQ07- Dissolved Metals				
Aluminum	**mg/L**	< 0.003	< 0.003	< 0.003
Antimony	**mg/L**	< 0.0005	< 0.0005	< 0.0005
Arsenic	**mg/L**	0.00895	0.0101	0.00993
Barium	**mg/L**	0.0758	0.096	0.125
Beryllium	**mg/L**	< 0.0001	< 0.0001	< 0.0001
Cadmium	**mg/L**	< 0.00001	< 0.00001	< 0.00001
Chromium	**mg/L**	< 0.001	< 0.001	< 0.001
Cobalt	**mg/L**	< 0.0002	< 0.0002	< 0.0002
Copper	**mg/L**	0.00174	0.00182	0.00272
Iron	**mg/L**	0.0133	0.0116	0.0143
Lead	**mg/L**	< 0.0002	< 0.0002	< 0.0002
Lithium	**mg/L**	0.0222	0.0244	0.0427
Manganese	**mg/L**	0.002	0.0042	0.0787
Mercury	**mg/L**	< 0.00001	< 0.00001	< 0.00001
Molybdenum	**mg/L**	< 0.001	< 0.001	< 0.001
Nickel	**mg/L**	0.0021	0.0021	0.0032
Selenium	**mg/L**	< 0.0001	< 0.0001	< 0.0001
Strontium	**mg/L**	0.706	0.853	1.22
Thallium	**mg/L**	< 0.00001	< 0.00001	< 0.00001
Tin	**mg/L**	< 0.005	< 0.005	< 0.005
Titanium	**mg/L**	< 0.005	< 0.005	< 0.005
Uranium	**mg/L**	0.00026	0.00033	0.00051
Vanadium	**mg/L**	< 0.005	< 0.005	< 0.005
Zinc	**mg/L**	0.0091	< 0.005	0.01

MEL-03-01		Average						7/18/2025	8/16/2025	9/9/2025	10/3/2025
Parameter	**Unit**	2020	2021	2022	2023	2024	2025				
WQ01- Field Measured											
Temperature	°C	*12.8*	*8.47*	*12.94*	*10.70*	*8.23*	*9.56*	11	12.53	9.11	5.6
pH	pH units	*7.61*	*7.2*	*7.42*	*7.54*	*7.4*	*7.3*	7.45	7.18	7.41	7.16
Conductivity	uS/cm	*73.25*	*87.7*	*83.5*	*88.43*	*93.17*	*108.475*	106.1	107.6	113.9	106.3
Dissolved oxygen	mg/L	*10.73*	*11.85*	*11.57*	*10.24*	*11.68*	*11.6225*	11.01	10.59	11.37	13.63
Dissolved oxygen	%	*100.6*	*104.45*	*109.07*	*94.63*	*99.27*	*103.6*	102.5	102.3	101.4	108.2
Turbidity	NTU	-	*1.08*	-	-	*1.21*	*1.45*	1.45	-	-	-
WQ02- Conventional Parameters											
pH	pH units	*7.31*	*7.43*	*7.52*	*7.18*	*7.52*	*7.4275*	7.51	7.46	7.38	7.36
Dissolved Oxygen	mg/L	*10.02*	*9.78*	-	-	*10.26*	*10.705*	9.72	11.2	10.7	11.2
Turbidity	NTU	*0.2*	*0.14*	*0.17*	*0.27*	*0.33*	*0.3*	0.5	0.3	0.2	0.2
Conductivity	umhos/cm	*76*	*80*	*83.00*	*88.00*	*92.13*	*136.00*	99.00	100.00	103.00	242.00
Hardness, as CaCO3	mg/L	*22.17*	*22.4*	*18.00*	*24.17*	*25.87*	*27.1*	28.1	26.8	25.7	27.8
Hardness, as CaCO3-Dissolved	mg/L	*22.17*	*22.13*	-	-	*25.97*	*27.05*	26.7	28.2	25.3	28
Carbonate, as CaCO3	mg/L	*1*	*0.5*	*18.00*	*0.50*	*0.5*	*0.5*	< 1.0	< 1.0	< 1.0	< 1.0
Bicarbonate, as CaCO3	mg/L	*16.33*	*17.5*	*41.67*	*17.67*	*21.33*	*30.75*	21	40	40	22
TDS	mg/L	*38.33*	*32.5*	*41*	*58.33*	*58.33*	*57.5*	35	55	75	65
TDS, calculated	mg/L	-	*39.33*	*0.5*	*40.00*	*44.67*	*53.75*	47	60	58	50
TSS	mg/L	*1*	*0.63*	*2.70*	*0.67*	*1.17*	*0.625*	1	< 1	< 1	< 1
Total organic carbon	mg/L	*2.4*	*2.43*	*2.43*	*2.57*	*2.87*	*2.85*	2.9	2.9	2.9	2.7
Dissolved organic carbon	mg/L	*2.6*	*2.25*	*11.3*	*2.70*	*2.7*	*2.725*	2.7	2.8	2.7	2.7
WQ03- Major Ions											
Chloride	mg/L	*8.8*	*9.85*	*0.00034*	*9.30*	*10.67*	*12.75*	13	13	12	13
Cyanide	mg/L	*0.005*	*0.0025*	*0.0015*	*0.0003*	*0.0003*	*0.00025*	< 0.00050	< 0.00050	< 0.00050	< 0.00050
Cyanide (free)	mg/L	*0.001*	*0.0028*	*0.00053*	*0.0038*	*0.0016*	*0.0005125*	0.00057	0.00060	< 0.00050	0.00063
Cyanide (WAD)	mg/L	*0.001*	*0.0007*	*0.230*	*0.0003*	*0.0005*	*0.00025*	< 0.00050	< 0.00050	< 0.00050	< 0.00050
Fluoride	mg/L	-	*0.05*	-	-	*0.05*	*0.05*	< 0.10	< 0.10	< 0.10	< 0.10
Silica	mg/L	*0.23*	*0.38*	*4.43*	*0.36*	*0.38*	*0.295*	0.31	0.35	0.27	0.25
Sulfate	mg/L	*3.37*	*3.83*	*0.0250*	*4.40*	*5.57*	*5.975*	5.6	6.3	5.8	6.2
WQ04- Nutrients and Chlorophyll a											
Ammonia Nitrogen (as N)	mg/L	*0.08*	*0.05*	*0.0500*	*0.03*	*0.14*	*0.053*	0.079	< 0.050	0.083	< 0.050
Un-Ionized Ammonia, calculat	mg/L	-	-	-	-	-	*0.00025*	0.0004	< 0.0004	< 0.0004	< 0.0004
Nitrate (as N)	mg/L	*0.1*	*0.05*	*0.0050*	*0.05*	*0.05*	*0.05*	< 0.10	< 0.10	< 0.10	< 0.10
Nitrite (as N)	mg/L	*0.01*	*0.01*	*0.183*	*0.01*	*0.01*	*0.005*	< 0.010	< 0.010	< 0.010	< 0.010
Total Kjeldahl nitrogen	mg/L	*0.16*	*0.18*	*0.0035*	*0.16*	*0.22*	*0.235*	0.34	0.31	0.15	0.14
Total phosphorus	mg/L	*-0.01*	*0.010.01*	*0.010*	*0.010*	*0.01*	*0.01*	< 0.020	< 0.020	< 0.020	< 0.020
Orthophosphate (P)	mg/L	*0.01*	*0.01*	*0.0050*	*0.01*	*0.01*	*0.005*	< 0.010	< 0.010	< 0.010	< 0.010
WQ06- Total Metals											
Aluminum	mg/L	*0.00276*	*0.00458*	*0.00347*	*0.00270*	*0.00493*	*0.0027575*	0.00425	0.00226	0.00285	0.00167
Antimony	mg/L	*0.00002*	*0.00001*	*0.000023*	*0.00009*	*0.00001*	*0.00001*	< 0.000020	< 0.000020	< 0.000020	< 0.000020
Arsenic	mg/L	*0.00025*	*0.00031*	*0.000313*	*0.00034*	*0.00042*	*0.00046475*	0.000474	0.000488	0.000468	0.000429
Barium	mg/L	*0.00761*	*0.00799*	*0.01042*	*0.00772*	*0.00851*	*0.00919*	0.00925	0.00909	0.00910	0.00932
Beryllium	mg/L	*0.00001*	*0.00001*	*0.000005*	*0.00002*	*0.00001*	*0.000005*	< 0.000010	< 0.000010	< 0.000010	< 0.000010
Boron	mg/L	*0.01*	*0.005*	*0.0050*	*0.01167*	*0.00500*	*0.005*	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	mg/L	*0.00001*	*0*	*0.0000025*	*0*	*0.00000*	*0.0000025*	< 0.0000050	< 0.0000050	< 0.0000050	< 0.0000050
Chromium	mg/L	*0.0001*	*0.00005*	*0.00005*	*0.00026*	*0.00011*	*0.0001125*	0.00016	< 0.00010	0.00012	0.00012
Cobalt	mg/L	*0.00001*	*0.00001*	*0.0000123*	*0.00005*	*0.00002*	*0.00001565*	0.0000176	0.0000154	0.0000142	0.0000154
Copper	mg/L	*0.00177*	*0.00065*	*0.000892*	*0.00071*	*0.00080*	*0.00089225*	0.000853	0.000666	0.00103	0.00102
Iron	mg/L	*0.01197*	*0.0121*	*0.0086*	*0.01680*	*0.01553*	*0.01405*	0.0214	0.0140	0.0119	0.0089
Lead	mg/L	*0.00001*	*0.00001*	*0.0002086*	*0.00004*	*0.00001*	*0.0000131*	0.0000228	0.0000123	0.0000092	0.0000081
Lithium	mg/L	*0.00062*	*0.00074*	*0.00077*	*0.00092*	*0.00071*	*0.000875*	0.00096	0.00080	0.00089	0.00085
Manganese	mg/L	*0.00241*	*0.00208*	*0.00169*	*0.00347*	*0.00342*	*0.003645*	0.00445	0.00400	0.00336	0.00277
Mercury	mg/L	*0.00001*	*0.00001*	*0.00001*	*0.00001*	*0.00001*	*0.000005*	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	mg/L	*0.00012*	*0.00008*	*0.000088*	*0.00022*	*0.00010*	*0.0000985*	0.000111	0.000092	0.000092	0.000099
Nickel	mg/L	*0.00038*	*0.00041*	*0.000405*	*0.00047*	*0.00044*	*0.00048475*	0.000534	0.000488	0.000457	0.000460
Selenium	mg/L	*0.00004*	*0.00003*	*0.00006*	*0.00003*	*0.00003*	*0.00003725*	< 0.000040	0.000044	0.000044	0.000041
Silver	mg/L	*0.00001*	*0*	*0.0000025*	*0.00001*	*0.00000*	*0.0000025*	< 0.0000050	< 0.0000050	< 0.0000050	< 0.0000050
Strontium	mg/L	*0.03373*	*0.036*	*0.0362*	*0.03877*	*0.04147*	*0.046875*	0.0438	0.0472	0.0482	0.0483

Thallium	mg/L	*0*	*0*	*0.0000010*	*0*	*0.00000*	*0.000002125*	0.0000026	0.0000028	0.0000021	< 0.0000020
Tin	mg/L	*0.0002*	*0.0001*	*0.00010*	*0.00090*	*0.00010*	*0.0001*	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Titanium	mg/L	*0.0005*	*0.00025*	*0.00025*	*0.00100*	*0.00025*	*0.00025*	< 0.00050	< 0.00050	< 0.00050	< 0.00050
Uranium	mg/L	*0.00002*	*0.00002*	*0.0000173*	*0.00002*	*0.00002*	*0.000018575*	0.0000179	0.0000182	0.0000216	0.0000166
Vanadium	mg/L	*0.0002*	*0.0001*	*0.00010*	*0.00015*	*0.00010*	*0.0001*	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Zinc	mg/L	*0.00026*	*0.00114*	*0.00097*	*0.00108*	*0.00043*	*0.0009*	0.00213	0.00035	0.00058	0.00054
WQ07- Dissolved Metals											
Aluminum	mg/L	*0.00164*	*0.00372*	*0.00284*	*0.00160*	*0.00363*	*0.0016*	0.00154	0.00187	0.00208	0.00091
Antimony	mg/L	*0.00002*	*0.00001*	*0.00001*	*0.00010*	*< 0.000020*	*0.00001*	< 0.000020	< 0.000020	< 0.000020	< 0.000020
Arsenic	mg/L	*0.00026*	*0.00031*	*0.00032*	*0.00036*	*0.000418*	*0.00042925*	0.000432	0.000436	0.000434	0.000415
Barium	mg/L	*0.00768*	*0.00761*	*0.00747*	*0.00806*	*0.00843*	*0.0089925*	0.00886	0.00902	0.00894	0.00915
Beryllium	mg/L	*0.00001*	*0.00001*	*0.000005*	*0.00002*	*< 0.000010*	*0.000005*	< 0.000010	< 0.000010	< 0.000010	< 0.000010
Boron	mg/L	*0.01*	*0.00825*	*0.0050*	*0.00833*		*0.005*	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	mg/L	*0.00001*	*0*	*0.0000025*	*0*	*< 0.0000050*	*0.0000025*	< 0.0000050	< 0.0000050	< 0.0000050	< 0.0000050
Calcium (Dissolved)	mg/L	*6.93*	*6.93*	*7.40*	*8.05*	*7.69*	*8.4725*	8.45	8.89	7.78	8.77
Chromium	mg/L	*0.0001*	*0.00005*	*0.00005*	*0.00025*	*0.00013*	*0.000165*	0.00018	0.00017	0.00014	0.00017
Cobalt	mg/L	*0.00001*	*0.00001*	*0.0000047*	*0.00004*	*0.0000059*	*0.00000745*	0.0000073	0.0000073	0.0000074	0.0000078
Copper	mg/L	*0.00173*	*0.00068*	*0.000739*	*0.00071*	*0.000763*	*0.00077725*	0.000750	0.000791	0.000795	0.000773
Iron	mg/L	*0.00413*	*0.00588*	*0.0037*	*0.00680*	*0.0061*	*0.0053*	0.0068	0.0062	0.0051	0.0031
Lead	mg/L	*0.00001*	*0.00001*	*0.0000034*	*0.00004*	*0.0000074*	*0.000010875*	0.0000079	0.0000151	0.0000057	0.0000148
Lithium	mg/L	*0.00068*	*0.00065*	*0.00073*	*0.00095*	*0.00083*	*0.000855*	0.00081	0.00090	0.00085	0.00086
Magnesium (Dissolved)	mg/L	*1.18*	*1.17*	*1.27*	*1.33*	*1.32*	*1.43*	1.37	1.45	1.42	1.48
Manganese	mg/L	*0.00045*	*0.00039*	*0.000355*	*0.00041*	*0.000748*	*0.00050225*	0.000681	0.000512	0.000479	0.000337
Mercury	mg/L	*0.00001*	*0.00001*	*0.0000050*	*0.00001*	*< 0.00001*	*0.000005*	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	mg/L	*0.00015*	*0.00009*	*0.000085*	*0.00023*	*0.000095*	*0.00009325*	0.000103	0.000091	0.000092	0.000087
Nickel	mg/L	*0.00041*	*0.00039*	*0.000396*	*0.00048*	*0.000444*	*0.0004635*	0.000475	0.000493	0.000447	0.000439
Potassium (Dissolved)	mg/L	*0.89*	*0.89*	*0.940*	*0.99*	*0.929*	*1.01625*	0.974	0.981	1.08	1.03
Selenium	mg/L	*0.00004*	*0.00003*	*0.000020*	*0.00003*	*< 0.000040*	*0.00002575*	< 0.000040	< 0.000040	< 0.000040	0.000043
Silver	mg/L	*0.00001*	*0*	*0.0000025*	*0.00001*	*< 0.0000050*	*0.0000025*	< 0.0000050	< 0.0000050	< 0.0000050	< 0.0000050
Sodium (Dissolved)	mg/L	*4.5*	*4.68*	*5.02*	*5.41*	*5.41*	*5.665*	5.62	5.91	5.23	5.90
Strontium	mg/L	*0.03437*	*0.0349*	*0.0374*	*0.03933*	*0.0418*	*0.0452*	0.0434	0.0440	0.0453	0.0481
Thallium	mg/L	*0*	*0*	*0.0000013*	*0*	*0.000002*	*0.00000215*	0.0000027	0.0000028	0.0000021	< 0.0000020
Tin	mg/L	*0.0002*	*0.0001*	*0.00010*	*0.00090*	*< 0.00020*	*0.0001*	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Titanium	mg/L	*0.00059*	*0.00025*	*0.00025*	*0.00100*	*< 0.00050*	*0.00025*	< 0.00050	< 0.00050	< 0.00050	< 0.00050
Uranium	mg/L	*0.00002*	*0.00002*	*0.0000149*	*0.00002*	*0.0000121*	*0.000018025*	0.0000177	0.0000186	0.0000199	0.0000159
Vanadium	mg/L	*0.0002*	*0.0001*	*0.00010*	*0.00090*	*< 0.00020*	*0.0001*	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Zinc	mg/L	*0.0005*	*0.00122*	*0.000673*	*0.00141*	*0.00056*	*0.0007925*	0.00079	0.00045	0.00122	0.00071
WQ08- Radionuclides											
Radium-226	Bq/l	*0.005*	*0.0025*	*0.0025*	*0.0025*	*0.0025*	*0.0025*	< 0.0050	< 0.0050	< 0.0050	< 0.0050
WQ10- Volatile Organics											
Benzene	mg/L	*0.0002*	*0.0001*	-	-	*0.00010*	*0.0001*	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Ethylbenzene	mg/L	*0.0002*	*0.0001*	-	-	*0.00010*	*0.0001*	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Toluene	mg/L	*0.00024*	*0.0001*	-	-	*0.00010*	*0.0001*	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Xylenes	mg/L	*0.0004*	*0.0002*	-	-	*0.00020*	*0.0002*	< 0.00040	< 0.00040	< 0.00040	< 0.00040
m,p-Xylenes	mg/L	*0.0004*	*0.0002*	-	-	*0.00020*	*0.0002*	< 0.00040	< 0.00040	< 0.00040	< 0.00040
o-Xylene	mg/L	*0.0002*	*0.0001*	-	-	*0.00010*	*0.0002*	< 0.00020	< 0.00020	< 0.00020	< 0.00020
F1 (C6-C10)-BTEX	mg/L	*0.025*	*0.0125*	-	-	*0.01250*	*0.0125*	< 0.025	< 0.025	< 0.025	< 0.025
F1 (C6-C10)	mg/L	*0.025*	*0.0125*	*0.0125*	*0.01250*	*0.01250*	*0.0125*	< 0.025	< 0.025	< 0.025	< 0.025
F2 (C10-C16)	mg/L	*0.1*	*0.05*	*0.05*	*0.05000*	*0.04667*	*0.045*	< 0.09	< 0.09	< 0.09	< 0.09
F3 (C16-C34)	mg/L	*0.2*	*0.1*	*0.1*	*0.10000*	*0.10000*	*0.1*	< 0.2	< 0.2	< 0.2	< 0.2
F4 (C34-C50)	mg/L	*0.2*	*0.1*	*0.1*	*0.10000*	*0.10000*	*0.1*	< 0.2	< 0.2	< 0.2	< 0.2

		Sample date	8/16/2025						9/9/2025					
		Sample type	Lab Blank	Field Blank	Original	Duplicate			Lab Blank	Field Blank	Original	Duplicate		
		LAB_SDG	C5A2863	C5A2863	C5A2863	C5A2863	C5A2863	C5A2863	C5B3964	C5B3964	C5B3964	C5B3964	C5B3964	C5B3964
Parameter	**Unit**	**MDL**					**RPD (LB/FB)**	**RPD (N/FD)**					**RPD (LB/FB)**	**RPD (N/FD)**
WQ02- Conventional Parameters														
pH	**pH units**		-	5.84	7.46	7.43	-	0.40	-	5.82	7.38	7.52	-	1.88
Dissolved Oxygen	%		-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Oxygen	**mg/L**	0.05	-	11.2	11.2	11	-	1.80	-	10.3	10.7	10.5	-	1.89
Turbidity	**NTU**	0.1	0.1	0.1	0.3	0.5	0.00	**50.00**	0.1	0.1	0.2	0.2	0.00	0.00
Turbidity	**NTU**		-	-	-	-	-	-	-	-	-	-	-	-
Conductivity	**ms/cm**	0.002	0.002	0.002	0.1	0.101	0.00	1.00	0.002	0.002	0.103	0.103	0.00	0.00
Conductivity	**umhos/cm**		-	-	-	-	-	-	-	-	-	-	-	-
Conductivity	**uS/cm**		-	-	-	-	-	-	-	-	-	-	-	-
Hardness, as CaCO3	**mg/L**	0.5	-	0.5	26.8	26.8	-	0.00	-	0.5	25.7	26.6	-	3.44
Hardness, as CaCO3-	**mg/L**	0.5	-	0.5	28.2	28.2	-	0.00	-	0.5	25.3	25.3	-	0.00
Total alkalinity, as Ca	**mg/L**	1	1	1	40	21	0.00	62.30	1	1	40	21	0.00	62.30
Alkalinity, Phenolpht	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Carbonate, as CaCO3	**mg/L**	1	-	1	1	1	-	0.00	-	1	1	1	-	0.00
Bicarbonate, as CaCO	**mg/L**	1	-	1	40	21	-	62.30	-	1	40	21	-	62.30
Hydroxide, as CaCO3	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Total acidity	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
TDS	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
TDS	**mg/L**	10	10	10	55	55	0.00	0.00	10	20	75	65	**66.67**	14.29
TDS, calculated	**mg/L**	1	-	1	60	49	-	20.18	-	1	58	48	-	18.87
TSS	**mg/L**	1	1	1	1	1	0.00	0.00	1	1	1	1	0.00	0.00
Total organic carbon	**mg/L**	0.4	0.4	0.4	2.9	2.8	0.00	3.51	-	0.4	2.9	2.9	-	0.00
Dissolved organic car	**mg/L**	0.4	0.4	0.4	2.8	2.8	0.00	0.00	0.4	0.4	2.7	2.7	0.00	0.00
WQ03- Major Ions														
Bromide	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Cation Sum	**meq/L**		-	-	-	-	-	-	-	-	-	-	-	-
Cation Sum	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Chloride	**mg/L**	1	1	1.00	13.00	13.00	0.00	0.00	1	1.00	12.00	12.00	0.00	0.00
Cyanide	**mg/L**	0.0005	0.0005	0.00	0.00	0.00	0.00	0.00	0.0005	0.00	0.00	0.00	0.00	0.00
Cyanide (free)	**mg/L**	0.0005	0.0005	0.00	0.00	0.00	0.00	18.18	0.0005	0.00	0.00	0.00	0.00	0.00
Cyanide (WAD)	**mg/L**	0.0005	0.0005	0.00	0.00	0.00	0.00	0.00	0.0005	0.00	0.00	0.00	0.00	0.00
Fluoride	**mg/L**	0.2	0.1	0.10	0.10	0.10	0.00	0.00	0.1	0.10	0.10	0.10	0.00	0.00
Silica	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Silica	**mg/L**	0.05	0.05	0.05	0.35	0.33	0.00	5.88	0.05	0.05	0.27	0.36	0.00	**28.57**
Sulfate	**mg/L**	0.5	0.5	0.50	6.30	6.00	0.00	4.88	0.5	0.50	5.80	7.50	0.00	25.56
Ion Balance	%		-	-	-	-	-	-	-	-	-	-	-	-
WQ04- Nutrients and Chlorophyll a														
Ammonia Nitrogen (a	**mg/L**	0.05	0.05	0.05	0.05	0.05	0.00	0.00	0.05	0.05	0.08	0.06	0.00	**28.97**
Un-Ionized Ammonia	**mg/L**	0.0004	-	0.00	0.00	0.00	-	0.00	-	0.00	0.00	0.00	-	0.00
Nitrate (as N)	**mg/L**	0.1	0.1	0.10	0.10	0.10	0.00	0.00	0.1	0.10	0.10	0.10	0.00	0.00
Nitrite (as N)	**mg/L**	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00
Nitrate + nitrite (as N	**mg/L**	0.1	-	0.10	0.10	0.10	-	0.00	-	0.10	0.10	0.10	-	0.00
Total Kjeldahl nitroge	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-

Dissolved nitrogen	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Total Kjeldahl nitroge	**mg/L**	0.1	0.1	0.10	0.31	0.17	0.00	**58.33**	-	0.10	0.15	0.16	-	6.45
Nitrogen, Kjeldahl	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Kjeldahl N	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Total phosphorus	**mg/L**	0.02	0.02	0.02	0.02	0.02	0.00	0.00	-	0.02	0.02	0.02	-	0.00
Dissolved phosphoru	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Orthophosphate (P)	**mg/L**	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00
Orthophosphate	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
WQ06- Total Metals														
Aluminum	**mg/L**	0.000500	0.005	0.00064	0.00226	0.00404	**154.61**	**56.51**	0.0005	0.00050	0.00285	0.00291	0.00	2.08
Antimony	**mg/L**	0.000020	0.00002	0.00002	0.00002	0.00002	0.00	0.00	0.00002	0.00002	0.00002	0.00002	0.00	0.00
Arsenic	**mg/L**	0.000020	0.00002	0.00002	0.00049	0.00049	0.00	0.00	0.00002	0.00002	0.00047	0.00043	0.00	8.23
Barium	**mg/L**	0.000020	0.00002	0.00002	0.00909	0.00906	0.00	0.33	0.00002	0.00002	0.00910	0.00907	0.00	0.33
Beryllium	**mg/L**	0.000010	0.00001	0.00001	0.00001	0.00001	0.00	0.00	0.00001	0.00001	0.00001	0.00001	0.00	0.00
Bismuth	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Boron	**mg/L**	0.010000	0.01	0.01000	0.01000	0.01000	0.00	0.00	0.01	0.01000	0.01000	0.01000	0.00	0.00
Cadmium	**mg/L**	0.000005	0.000005	0.00001	0.00001	0.00001	0.00	0.00	0.000005	0.00001	0.00001	0.00001	0.00	0.00
Calcium (total)	**mg/L**	0.050000	-	0.05000	8.34000	8.32000	-	0.24	-	0.05000	7.88000	8.19000	-	3.86
Cesium	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Chromium	**mg/L**	0.000100	0.0001	0.00010	0.00010	0.00013	0.00	**26.09**	0.0001	0.00010	0.00012	0.00013	0.00	8.00
Cobalt	**mg/L**	0.000005	0.000005	0.00001	0.00002	0.00004	0.00	**79.22**	0.000005	0.00001	0.00001	0.00001	0.00	0.70
Copper	**mg/L**	0.000050	0.00005	0.00005	0.00067	0.00130	0.00	64.50	0.00005	0.00005	0.00103	0.00106	0.00	2.87
Gallium	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Iron	**mg/L**	0.001000	0.001	0.00100	0.01400	0.01730	0.00	21.09	0.001	0.00100	0.01190	0.01250	0.00	4.92
Lanthanum	**mg/L**		-	-	-	-	-	-		-	-	-	-	-
Lead	**mg/L**	0.000005	0.0000061	0.00001	0.00001	0.00001	**37.33**	7.81	0.000005	0.00001	0.00001	0.00001	0.00	**27.23**
Lithium	**mg/L**	0.000500	0.005	0.00050	0.00080	0.00087	**163.64**	8.38	0.0005	0.00050	0.00089	0.00093	0.00	4.40
Magnesium (total)	**mg/L**	0.050000	-	0.05000	1.46000	1.46000	-	0.00	-	0.05000	1.47000	1.48000	-	0.68
Manganese	**mg/L**	0.000050	0.00005	0.00005	0.00400	0.00419	0.00	4.64	0.00005	0.00005	0.00336	0.00344	0.00	2.35
Mercury	**mg/L**	0.000010	0.00001	0.00001	0.00001	0.00001	0.00	0.00	0.00001	0.00001	0.00001	0.00001	0.00	0.00
Mercury	ng/L		-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	**mg/L**	0.000050	0.00005	0.00005	0.00009	0.00010	0.00	7.33	0.00005	0.00005	0.00009	0.00010	0.00	6.32
Nickel	**mg/L**	0.000020	0.00002	0.00002	0.00049	0.00048	0.00	1.65	0.00002	0.00002	0.00046	0.00047	0.00	2.59
Niobium	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Potassium (total)	**mg/L**	0.050000	-	0.05000	1.02000	1.03000	-	0.98	-	0.05000	1.16000	1.12000	-	3.51
Rhenium	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Rubidium	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Selenium	**mg/L**	0.000040	0.00004	0.00004	0.00004	0.00004	0.00	0.00	0.00004	0.00004	0.00004	0.00004	0.00	9.52
Silicon	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Silver	**mg/L**	0.000005	0.000005	0.00001	0.00001	0.00001	0.00	0.00	0.000005	0.00001	0.00001	0.00001	0.00	0.00
Sodium (total)	**mg/L**	0.050000	-	0.05000	5.65000	5.69000	-	0.71	-	0.05000	5.53000	5.70000	-	3.03
Strontium	**mg/L**	0.000050	0.00005	0.00005	0.04720	0.04640	0.00	1.71	0.00005	0.00005	0.04820	0.04810	0.00	0.21
Sulfur	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Tantalum	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Tellurium	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Thallium	**mg/L**	0.000002	0.000002	0.00000	0.00000	0.00000	0.00	0.00	0.000002	0.00000	0.00000	0.00000	0.00	9.09
Thorium	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-

Tin	**mg/L**	0.000200	0.0002	0.00020	0.00020	0.00020	0.00	0.00	0.0002	0.00020	0.00020	0.00020	0.00	0.00
Titanium	**mg/L**	0.000500	0.0005	0.00050	0.00050	0.00050	0.00	0.00	0.0005	0.00050	0.00050	0.00050	0.00	0.00
Tungsten	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Uranium	**mg/L**	0.000002	0.000002	0.00000	0.00002	0.00002	0.00	2.17	0.000002	0.00000	0.00002	0.00002	0.00	2.34
Vanadium	**mg/L**	0.000200	0.0002	0.00020	0.00020	0.00020	0.00	0.00	0.0002	0.00020	0.00020	0.00020	0.00	0.00
Yttrium	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Zinc	**mg/L**	0.000100	0.0001	0.00016	0.00035	0.00101	**46.15**	**97.06**	0.0001	0.00020	0.00058	0.00065	**66.67**	**11.38**
Zirconium	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
WQ07- Dissolved Metals														
Aluminum	**mg/L**	0.000500	0.0005	0.00056	0.00187	0.00212	11.32	12.53	0.0005	0.00062	0.00208	0.00168	**21.43**	**21.28**
Antimony	**mg/L**	0.000020	0.00002	0.00002	0.00002	0.00002	0.00	0.00	0.00002	0.00002	0.00002	0.00002	0.00	0.00
Arsenic	**mg/L**	0.000020	0.00002	0.00002	0.00044	0.00046	0.00	6.22	0.00002	0.00002	0.00043	0.00044	4.88	0.46
Barium	**mg/L**	0.000020	0.00002	0.00002	0.00902	0.00918	0.00	1.76	0.00002	0.00002	0.00894	0.00884	0.00	1.12
Beryllium	**mg/L**	0.000010	0.00001	0.00001	0.00001	0.00001	0.00	0.00	0.00001	0.00001	0.00001	0.00001	0.00	0.00
Bismuth	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Boron	**mg/L**	0.010000	0.01	0.01000	0.01000	0.01000	0.00	0.00	0.01	0.01000	0.01000	0.01000	0.00	0.00
Cadmium	**mg/L**	0.000005	0.000005	0.00001	0.00001	0.00001	0.00	0.00	0.000005	0.00001	0.00001	0.00001	0.00	0.00
Calcium (Dissolved)	**mg/L**	0.050000	-	0.05000	8.89000	8.86000	-	0.34	-	0.05000	7.78000	7.77000	-	0.13
Calcium (SW6020B)	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Cesium	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Chromium	**mg/L**	0.000100	0.0001	0.00016	0.00017	0.00018	**46.15**	5.71	0.0001	0.00013	0.00014	0.00018	**26.09**	**25.00**
Cobalt	**mg/L**	0.000005	0.000005	0.00001	0.00001	0.00001	0.00	7.89	0.000005	0.00001	0.00001	0.00001	0.00	4.14
Copper	**mg/L**	0.000050	0.00005	0.00005	0.00079	0.00105	0.00	28.14	0.00005	0.00005	0.00080	0.00080	0.00	0.63
Gallium	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Iron	**mg/L**	0.001000	0.001	0.00100	0.00620	0.00690	0.00	10.69	0.001	0.00100	0.00510	0.00440	0.00	14.74
Lanthanum	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Lead	**mg/L**	0.000005	0.0000097	0.00001	0.00002	0.00002	8.60	5.79	0.000005	0.00001	0.00001	0.00001	0.00	13.08
Lithium	**mg/L**	0.000500	0.0005	0.00050	0.00090	0.00088	0.00	2.25	0.0005	0.00050	0.00085	0.00082	0.00	3.59
Magnesium (Dissolv	**mg/L**	0.050000	-	0.05000	1.45000	1.46000	-	0.69	-	0.05000	1.42000	1.44000	-	1.40
Magnesium (SW6020	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Manganese	**mg/L**	0.000050	0.00005	0.00005	0.00051	0.00055	0.00	7.52	0.00005	0.00005	0.00048	0.00041	0.00	16.01
Mercury	**mg/L**	0.000010	0.00001	0.00001	0.00001	0.00001	0.00	0.00	0.00001	0.00001	0.00001	0.00001	0.00	0.00
Mercury	ng/L		-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	**mg/L**	0.000050	0.00005	0.00005	0.00009	0.00010	0.00	13.33	0.00005	0.00005	0.00009	0.00010	0.00	3.21
Nickel	**mg/L**	0.000020	0.00002	0.00005	0.00049	0.00053	**78.79**	6.29	0.00002	0.00002	0.00045	0.00045	0.00	0.89
Niobium	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Potassium (Dissolved	**mg/L**	0.050000	-	0.05000	0.98100	0.98600	-	0.51	-	0.05000	1.08000	1.12000	-	3.64
Rhenium	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Rubidium	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Selenium	**mg/L**	0.000040	0.00004	0.00004	0.00004	0.00004	0.00	0.00	0.00004	0.00004	0.00004	0.00004	0.00	0.00
Silicon	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Silver	**mg/L**	0.000005	0.000005	0.00001	0.00001	0.00001	0.00	0.00	0.000005	0.00001	0.00001	0.00001	0.00	0.00
Sodium (Dissolved)	**mg/L**	0.050000	-	0.05000	5.91000	6.02000	-	1.84	-	0.05000	5.23000	5.35000	-	2.27
Strontium	**mg/L**	0.000050	0.00005	0.00005	0.04400	0.04470	0.00	1.58	0.00005	0.00005	0.04530	0.04570	0.00	0.88
Sulfur (SW6020B)	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Tantalum	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Tellurium	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-

Thallium	**mg/L**	0.000002	0.000002	0.000002	0.000003	0.000002	0.00	**24.00**	0.000002	0.00000	0.00000	0.00000	0.00	13.33
Thorium	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Tin	**mg/L**	0.000200	0.0002	0.00020	0.00020	0.00020	0.00	0.00	0.0002	0.00020	0.00020	0.00020	0.00	0.00
Titanium	**mg/L**	0.000500	0.0005	0.00050	0.00050	0.00050	0.00	0.00	0.0005	0.00050	0.00050	0.00050	0.00	0.00
Tungsten	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Uranium	**mg/L**	0.000002	0.000002	0.00000	0.00002	0.00002	0.00	10.17	0.0000021	0.00000	0.00002	0.00002	4.88	2.03
Vanadium	**mg/L**	0.000200	0.0002	0.00020	0.00020	0.00020	0.00	0.00	0.0002	0.00020	0.00020	0.00020	0.00	0.00
Yttrium	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Zinc	**mg/L**	0.000100	0.0001	0.00033	0.00045	0.00127	**106.98**	***95.35***	0.0001	0.00027	0.00122	0.00085	**91.89**	***35.75***
Zirconium	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Potassium (SW6020E	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
Sodium (SW6020B)	**mg/L**		-	-	-	-	-	-	-	-	-	-	-	-
WQ08- Radionuclides														
Radium-226	**Bq/l**	0.005	0.005	0.005	0.005	0.005	0.00	0.00	0.005	0.005	0.005	0.005	0.00	0.00
% Exceedance*							0%	4%					0%	2%

Footnotes:

RPD = Relative Percent Difference; MDL: Method Detection Limit

All value "<DL" have been replaced by "DL".

* Although usually consistent, in the rare event that there were two different RDLs for different sampling events, the lower one was used. This may cause artifical 10x MDL exceedances.

Bold values correspond to a RPD higher than 20% and for which concentrations of parent and duplicate samples are within 10x the MDL.

Grey shaded cells correspond to a RPD higher than 20% and for which concentrations of parent and duplicate samples are above 10x the MDL.

Bold & Italic values correspond to a RPD higher than 20% and for which one of the result is within 10X the MDL and the other one exceeds 10x the MDL.

MEL-11	CCME	Canada	Sample date	Average						1/6/2025	2/3/2025	3/3/2025	4/7/2025	5/6/2025	6/3/2025	7/1/2025	8/3/2025	9/1/2025	10/6/2025	11/3/2025	12/1/2025
Parameter	Guideline	Drinking	Unit	2020	2021	2022	2023	2024	2025												
WQ01- Field Measured																					
Temperature			°C	*6.84*	*7.6*	*7.34*	*6.44*	*7.17*	*6.58*	4.2	3.2	3.4	4.7	3.4	4.9	12.1	12.7	12.3	6.8	5.7	5.6
pH			pH units	*68.94*	*7.2*	*7.37*	*7.40*	*7.22*	*7.00*	7.3	7.9	7.1	7.23	6.31	7.3	7	7.98	7.71	7.87	6.96	3.31
Conductivity			uS/cm	*118.31*	*122.53*	*133.7*	*130.92*	*133.30*	*242.20*	151.7	165.5	172.1	642.9	180.6	648.7	144	135.5	119.6	126.2	123.1	296.5
Dissolved oxygen			mg/L	*19.72*	*12.18*	*19.05*	*13.06*	*11.90*	*13.20*	12.08	18.05	16.64	16.35	-	9.17	12.74	8.93	10.77	11.25	11.47	17.79
Dissolved oxygen			%	*95.41*	*98.96*	*100.62*	*105.19*	*98.88*	*110.36*	106.7	134.8	125.2	127.2	127.7	71.9	118.6	84.1	100.7	94.3	91.5	141.6
WQ02- Conventional Parameters																					
pH	6-9.5	6-9.5	pH units	*7.22*	*7.43*	*7.58*	*7.28*	*7.35*	*7.39*	7.55	7.37	7.2	7.3	7.37	7.46	7.35	7.49	7.57	7.46	7.33	7.24
Turbidity		0.1	NTU	*0.24*	*0.23*	*0.3*	*0.23*	*0.28*	*0.30*	0.2	0.2	< 0.1	< 0.1	< 0.1	0.3	0.2	0.4	0.3	0.2	0.5	0.4
Conductivity			umhos/cm	*110.33*	*120.58*	*128*	*128.08*	*125.83*	*152.00*	148.00	160.00	174.00	192.00	184.00	168.00	155.00	130.00	127.00	121.00	127.00	138.00
Hardness, as CaCO3			mg/L	*30.96*	*32.22*	*33.9*	*34.52*	*31.99*	*40.19*	42.2	43.3	40.7	46.4	48.7	46.3	39.3	37.1	30.5	33.8	34.1	39.9
Total alkalinity, as CaCO3			mg/L	*22.42*	*22.08*	*25*	*24.42*	*25.33*	*26.83*	43	28	28	30	30	26	24	22	22	23	22	24
Carbonate, as CaCO3			mg/L	*1*	*0.5*	*1.5*	*0.50*	*0.50*	*0.50*	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bicarbonate, as CaCO3			mg/L	*22.33*	*21.92*	*24*	*24.33*	*25.25*	*26.58*	42	28	28	30	30	26	23	22	22	22	22	24
TDS		500	mg/L	*63.33*	*55.83*	*79.29*	*67.92*	*68.75*	*82.08*	75	75	75	75	145	100	80	90	70	55	45	100
TDS, calculated			mg/L	-	*55*	*62*	*61.33*	*61.00*	*74.92*	85	80	84	95	91	80	74	63	61	59	61	66
TSS			mg/L	*1.08*	*0.63*	*0.7*	*0.67*	*0.79*	*0.58*	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	1	< 1	< 1	< 1
Total organic carbon			mg/L	*3.53*	*3.59*	*3.8*	*3.76*	*3.46*	*4.00*	4	4.3	4.2	4.5	4.8	4.7	4.2	3.7	3.4	3.3	3.4	3.5
Dissolved organic carbon			mg/L	*3.53*	*3.55*	*3.8*	*3.74*	*3.36*	*3.98*	3.9	4.3	4.2	4.8	5	4.5	4.2	3.8	3.3	3.1	3.4	3.3
WQ03- Major Ions																					
Chloride	120		mg/L	*15.75*	*17.92*	*18*	*16.67*	*15.73*	*20.00*	20	21	23	27	25	21	21	17	16	15	16	18
Cyanide		0.2	mg/L	*0.01*	*0.002*	*0.00057*	*0*	*0.000*	*0.00039*	< 0.00050	< 0.00050	< 0.00050	0.00193	< 0.0005	< 0.00050	0.00057	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
Cyanide (free)	0.005		mg/L	*0.002*	*0.0086*	*0.00147*	*0.0029*	*0.0011*	*0.00072*	< 0.0020	0.004	< 0.0020	0.00072	0.00057	< 0.00050	< 0.00050	0.00064	0.00064	< 0.00050	< 0.00050	0.00059
Cyanide (WAD)			mg/L	*0.001*	*0.0005*	*0.00043*	*0.0003*	*0.0003*	*0.00042*	< 0.00050	< 0.00050	< 0.00050	0.0017	< 0.0005	< 0.00050	0.00088	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
Fluoride	0.12	1.5	mg/L	-	-	-	-	-	*0.050*	< 0.10	< 0.10	< 0.10	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Silica			mg/L	*1.66*	*0.33*	*0.38*	*0.63*	*0.76*	*0.787*	0.83	0.86	0.94	1.1	1.3	1.4	1.1	0.51	0.37	0.35	0.31	0.37
Sulfate	128	500	mg/L	*5.73*	*6.73*	*7.1*	*7.25*	*7.89*	*12.950*	13	15	14	16	16	15	13	12	10	9.4	10	12
WQ04- Nutrients and Chlorophyll a																					
Ammonia Nitrogen (as N)			mg/L	*0.12*	*0.05*	*0.035*	*0.03*	*0.04*	*0.0025*	< 0.050	< 0.050	< 0.050	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Nitrate (as N)	13	10	mg/L	*0.1*	*0.07*	*0.08*	*0.06*	*0.05*	*0.0675*	< 0.10	< 0.10	0.10	0.13	0.13	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nitrite (as N)	0.06	1	mg/L	*0.01*	*0.01*	*0.006*	*0.01*	*0.01*	*0.0050*	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Nitrate + nitrite (as N)			mg/L	*0.1*	*0.07*	-	-	*0.05*	*0.0675*	< 0.10	< 0.10	0.10	0.13	0.13	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Kjeldahl nitrogen			mg/L	*0.22*	*0.21*	*0.22*	*0.22*	*0.22*	*0.2083*	0.23	0.21	0.23	0.28	0.20	0.23	0.19	0.12	0.22	0.22	0.16	0.21
Total phosphorus			mg/L	*0.02*	*0.02*	*0.016*	*0.01*	*0.01*	*0.0130*	< 0.020	< 0.020	< 0.020	< 0.02	< 0.02	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	0.05	< 0.020
Orthophosphate (P)			mg/L	*0.01*	*0.01*	*0.005*	*0.01*	*0.01*	*0.0050*	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
WQ06- Total Metals																					
Aluminum		0.1	mg/L	*0.00496*	*0.00539*	*0.0047*	*0.00310*	*0.00331*	*0.003542*	0.00	0.01	< 0.0030	0.00	< 0.003	0.00	0.00	0.01	0.01	< 0.0030	0.00	< 0.0030
Antimony		0.006	mg/L	*0.0005*	*0.00025*	*0.00025*	*0.00025*	*0.00025*	*0.000250*	< 0.00050	< 0.00050	< 0.00050	< 0.0005	< 0.0005	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
Arsenic	0.005	0.01	mg/L	*0.00044*	*0.00052*	*0.00061*	*0.00064*	*0.00066*	*0.000803*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Barium		2	mg/L	*0.01048*	*0.01047*	*0.0108*	*0.01086*	*0.01003*	*0.012225*	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Beryllium			mg/L	*0.0001*	*0.00005*	*0.00005*	*0.00005*	*0.00005*	*0.000050*	< 0.00010	< 0.00010	< 0.00010	< 0.0001	< 0.0001	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010
Cadmium	0.00006	0.007	mg/L	*0.00001*	*0.00001*	*0.000005*	*0.00001*	*0.00001*	*0.000005*	< 0.000010	< 0.000010	< 0.000010	< 0.00001	< 0.00001	< 0.000010	< 0.000010	0.00	< 0.000010	< 0.000010	< 0.000010	< 0.000010
Chromium		0.05	mg/L	*0.001*	*0.0005*	*0.0005*	*0.00056*	*0.00050*	*0.000500*	< 0.0010	< 0.0010	< 0.0010	< 0.001	< 0.001	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Copper	0.002	1	mg/L	*0.00102*	*0.00097*	*0.00106*	*0.00092*	*0.00096*	*0.000983*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Iron	0.3	0.3	mg/L	*0.02742*	*0.02608*	*0.023*	*0.01883*	*0.01850*	*0.019545*	0.02	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.02	0.02	0.02	< 0.010
Lead	0.001	0.005	mg/L	*0.0002*	*0.0001*	*0.00010*	*0.00010*	*0.00010*	*0.000100*	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Lithium			mg/L	*0.002*	*0.001*	*0.0010*	*0.00100*	*0.00100*	*0.001000*	< 0.0020	< 0.0020	< 0.0020	< 0.002	< 0.002	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Manganese		0.02	mg/L	*0.00525*	*0.00565*	*0.0054*	*0.00548*	*0.00550*	*0.006258*	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.02	0.00
Mercury	0.000026	0.001	mg/L	*0.00001*	*0.00001*	*0.000005*	*0.00001*	*0.00001*	*0.000005*	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	0.073		mg/L	*0.001*	*0.0005*	*0.0007*	*0.00050*	*0.00050*	*0.000500*	< 0.0010	< 0.0010	< 0.0010	< 0.001	< 0.001	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Nickel	0.025		mg/L	*0.001*	*0.00064*	*0.0006*	*0.00073*	*0.00050*	*0.000708*	< 0.0010	< 0.0010	< 0.0010	0.00	0.00	0.00	0.00	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Selenium	0.001	0.05	mg/L	*0.0001*	*0.00005*	*0.00005*	*0.00005*	*0.00005*	*0.000050*	< 0.00010	< 0.00010	< 0.00010	< 0.0001	< 0.0001	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010
Silver	0.0025		mg/L	*0.00002*	*0.00001*	*0.000010*	*0.00001*	*0.00001*	*0.000010*	< 0.000020	< 0.000020	< 0.000020	< 0.00002	< 0.00002	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020
Strontium		7	mg/L	*0.05488*	*0.06074*	*0.0605*	*0.06078*	*0.05393*	*0.066242*	0.07	0.07	0.07	0.08	0.08	0.08	0.06	0.06	0.05	0.05	0.06	0.06
Thallium	0.0008		mg/L	*0.00001*	*0.00001*	*0.000005*	*0.00001*	*0.00001*	*0.000005*	< 0.000010	< 0.000010	< 0.000010	< 0.00001	< 0.00001	< 0.000010	< 0.000010	< 0.000010	< 0.000010	< 0.000010	< 0.000010	< 0.000010
Tin			mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.002500*	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Titanium			mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.002500*	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Uranium	0.015	0.02	mg/L	*0.0001*	*0.00005*	*0.00005*	*0.00005*	*0.00005*	*0.000050*	< 0.00010	< 0.00010	< 0.00010	< 0.0001	< 0.0001	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010
Vanadium			mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.002500*	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Zinc	0.03	5	mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.005125*	< 0.0050	< 0.0050	< 0.0050	0.01	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
WQ07- Dissolved Metals																					
Aluminum		0.1	mg/L	*0.00333*	*0.00253*	*0.0015*	*0.00211*	*0.00165*	*0.002350*	0.00	0.01	< 0.0030	< 0.003	< 0.003	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030
Antimony		0.006	mg/L	*0.0005*	*0.00025*	*0.00025*	*0.00025*	*0.00025*	*0.000250*	< 0.00050	< 0.00050	< 0.00050	< 0.0005	< 0.0005	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
Arsenic	0.005	0.01	mg/L	*0.00042*	*0.00046*	*0.00057*	*0.00060*	*0.00061*	*0.000789*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Barium		2	mg/L	*0.0103*	*0.01023*	*0.0109*	*0.01086*	*0.01068*	*0.012500*	0.01	0.01	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Beryllium			mg/L	*0.0001*	*0.00005*	*0.00005*	*0.00005*	*0.00005*	*0.000050*	< 0.00010	< 0.00010	< 0.00010	< 0.0001	< 0.0001	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010
Cadmium	0.00006	0.007	mg/L	*0.00001*	*0.00001*	*0.000006*	*0.00001*	*0.00001*	*0.000005*	< 0.000010	< 0.000010	< 0.000010	< 0.00001	< 0.00001	< 0.000010	< 0.000010	< 0.000010	< 0.000010	< 0.000010	< 0.000010	< 0.000010
Calcium (Dissolved)			mg/L	*9.35333*	*9.7375*	*10.41*	*11.02083*	*10.65833*	*12.666667*	13.10	13.30	14.50	15.60	15.20	13.70	12.10	10.80	10.80	10.60	10.90	11.40
Chromium		0.05	mg/L	*0.001*	*0.0005*	*0.0006*	*0.00050*	*0.00050*	*0.000500*	< 0.0010	< 0.0010	< 0.0010	< 0.001	< 0.001	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Copper	0.002	1	mg/L	*0.00096*	*0.00092*	*0.00102*	*0.00092*	*0.00092*	*0.000990*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Iron	0.3	0.3	mg/L	*0.01113*	*0.00913*	*0.00911*	*0.00660*	*0.00768*	*0.009017*	0.01	0.02	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	< 0.0050	0.01
Lead	0.001	0.005	mg/L	*0.0002*	*0.0001*	*0.00010*	*0.00010*	*0.00010*	*0.000100*	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Lithium			mg/L	*0.002*	*0.001*	*0.0010*	*0.00100*	*0.00100*	*0.001000*	< 0.0020	< 0.0020	< 0.0020	< 0.002	< 0.002	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Magnesium (Dissolved)			mg/L	*1.68917*	*1.83917*	*1.87*	*1.97750*	*1.87083*	*2.260833*	2.23	2.58	2.64	2.85	2.94	2.68	1.97	1.91	1.68	1.82	1.85	1.98
Manganese		0.02	mg/L	*0.00118*	*0.00103*	*0.0007*	*0.00057*	*0.00062*	*0.000792*	< 0.0010	< 0.0010	< 0.0010	< 0.001	< 0.001	0.00	0.00	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Mercury	0.000026	0.001	mg/L	*0.00001*	*0.00001*	*0.000005*	*0.00001*	*0.00001*	*0.000005*	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Molybdenum	0.073		mg/L	*0.001*	*0.0005*	*0.0005*	*0.00050*	*0.00050*	*0.000500*	< 0.0010	< 0.0010	< 0.0010	< 0.001	< 0.001	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Nickel	0.025		mg/L	*0.001*	*0.00063*	*0.0007*	*0.00064*	*0.00050*	*0.000408*	< 0.0010	< 0.0010	< 0.0010	0.00	0.00	0.00	0.00	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Potassium (Dissolved)			mg/L	*1.17408*	*1.2*	*1.20*	*1.28433*	*1.25417*	*1.342500*	1.39	1.47	1.48	1.65	1.62	1.54	1.15	1.10	1.12	1.13	1.18	1.28
Selenium	0.001	0.05	mg/L	*0.0001*	*0.00005*	*0.00005*	*0.00005*	*0.00006*	*0.000056*	< 0.00010	< 0.00010	< 0.00010	< 0.0001	0.00	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010
Silver	0.0025		mg/L	*0.00002*	*0.00001*	*0.000010*	*0.00001*	*0.00001*	*0.000010*	< 0.000020	< 0.000020	< 0.000020	< 0.00002	< 0.00002	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020
Sodium (Dissolved)		200	mg/L	*6.83333*	*7.88417*	*7.99*	*8.36917*	*7.91667*	*9.548333*	9.47	10.20	11.10	13.80	11.70	10.40	10.40	7.84	7.30	7.44	7.20	7.73
Strontium		7	mg/L	*0.05514*	*0.06104*	*0.0610*	*0.06166*	*0.05666*	*0.069033*	0.07	0.07	0.08	0.09	0.09	0.08	0.06	0.06	0.05	0.06	0.06	0.06
Thallium	0.0008		mg/L	*0.00001*	*0.00001*	*0.000005*	*0.00001*	*0.00001*	*0.000005*	< 0.000010	< 0.000010	< 0.000010	< 0.00001	< 0.00001	< 0.000010	< 0.000010	< 0.000010	< 0.000010	< 0.000010	< 0.000010	< 0.000010
Tin			mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.002500*	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Titanium			mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.002500*	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Zinc	0.03	5	mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.002500*	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
WQ10- Volatile Organics																					
Benzene	0.37	0.005	mg/L	*0.0002*	*0.0001*	*0.00010*	*0.00010*	*0.00010*	*0.00010*	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Ethylbenzene	0.09	0.14	mg/L	*0.0002*	*0.0001*	*0.00010*	*0.00010*	*0.00010*	*0.00010*	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Toluene	0.002	0.06	mg/L	*0.0002*	*0.0001*	*0.00011*	*0.00010*	*0.00010*	*0.00010*	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Xylenes		0.09	mg/L	*0.0004*	*0.0002*	*0.00022*	*0.00020*	*0.00020*	*0.00020*	< 0.00040	< 0.00040	< 0.00040	< 0.0004	< 0.0004	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040
m,p-Xylenes			mg/L	*0.0004*	*0.0002*	*0.00022*	*0.00020*	*0.00020*	*0.00020*	< 0.00040	< 0.00040	< 0.00040	< 0.0004	< 0.0004	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040
o-Xylene			mg/L	*0.0002*	*0.0001*	*0.00010*	*0.00010*	*0.00010*	*0.00010*	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
F1 (C6-C10)-BTEX			mg/L	*0.025*	*0.0125*	*0.0125*	*0.01250*	*0.01250*	*0.01250*	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
F1 (C6-C10)			mg/L	*0.025*	*0.0125*	*0.0125*	*0.01250*	*0.01250*	*0.01250*	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
F2 (C10-C16)			mg/L	*0.1*	*0.05*	*0.05*	*0.05000*	*0.05542*	*0.04500*	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09
F3 (C16-C34)			mg/L	*0.2*	*0.1*	*0.1*	*0.10000*	*0.10000*	*0.10000*	< 0.2	< 0.2	< 0.2	0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
F4 (C34-C50)			mg/L	*0.2*	*0.1*	*0.1*	*0.10000*	*0.10000*	*0.10000*	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2

		Sample date	6/3/2025						11/3/2025					
		Sample type	Lab Blank	Field Blank	Original	Duplicate			Lab Blank	Field Blank	Original	Duplicate		
		LAB_SDG	C567489	C567489	C567489	C567489	C567489	C567489	C5E1430	C5E1430	C5E1430	C5E1430	C5E1430	C5E1430
Parameter	**Unit**	**MDL**					**RPD (LB/FB)**	**RPD (N/FD)**					**RPD (LB/FB)**	**RPD (N/FD)**
WQ02- Conventional Parameters														
pH	**pH units**	-	-	5.76	7.46	7.44	-	0.27	-	5.84	7.33	7.41	-	1.09
Dissolved Oxygen	%	-	-	71.9	71.9	71.9	-	0.00	-	-	91.5	91.5	-	0.00
Dissolved Oxygen	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	**NTU**	0.1	-	0.1	0.3	0.3	-	0.00	0.1	0.3	0.5	0.7	**100.00**	**33.33**
Conductivity	**ms/cm**	0.002	-	0.002	0.168	0.167	-	0.60	0.002	0.002	0.127	0.129	0.00	1.56
Conductivity	**umhos/cm**	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardness, as CaCO3	**mg/L**	0.50	-	0.50	46.3	46.1	-	0.43	-	0.50	34.1	32.7	-	4.19
Hardness, as CaCO3-I	**mg/L**	0.50	-	0.50	45.3	46.2	-	1.97	-	0.50	34.8	34.1	-	2.03
Total alkalinity, as Ca	**mg/L**	1.0	-	1.0	26	27	-	3.77	1	1.0	22	23	0.00	4.44
Carbonate, as CaCO3	**mg/L**	1.0	-	1.0	1.0	1.0	-	0.00	-	1.0	1.0	1.0	-	0.00
Bicarbonate, as CaCO	**mg/L**	1.0	-	1.0	26	27	-	3.77	-	1.0	22	23	-	4.44
TDS	**mg/L**	10	10	10	100	100	0.00	0.00	10	10	45	45	0.00	0.00
TDS, calculated	**mg/L**	1.0	-	1.0	80	83	-	3.68	-	1.0	61	61	-	0.00
TSS	**mg/L**	1	1	1	1	1	0.00	0.00	5	1	1	1	**133.33**	0.00
Total organic carbon	**mg/L**	0.40	0.4	0.40	4.7	4.6	0.00	2.15	0.4	0.40	3.4	3.4	0.00	0.00
Dissolved organic car	**mg/L**	0.40	-	0.40	4.5	4.6	-	2.20	0.4	0.40	3.4	3.3	0.00	2.99
WQ03- Major Ions														
Chloride	**mg/L**	1.0	1	1.0	21	24	0.00	13.33	1	1.0	16	16	0.00	0.00
Cyanide	**mg/L**	0.00050	0.0005	0.00050	0.00050	0.00067	0.00	29.06	0.0005	0.00050	0.00050	0.00050	0.00	0.00
Cyanide (free)	**mg/L**	0.00060	0.0005	0.00060	0.00050	0.00050	18.18	0.00	0.0005	0.00050	0.00050	0.00050	0.00	0.00
Cyanide (WAD)	**mg/L**	0.00050	0.0005	0.00050	0.00050	0.00091	0.00	**58.16**	0.0005	0.00050	0.00050	0.00050	0.00	0.00
Fluoride	**mg/L**	0.10	-	0.10	0.10	0.10	-	0.00	0.1	0.10	0.10	0.10	0.00	0.00
Silica	**mg/L**	0.050	-	0.050	1.4	1.4	-		0.05	0.050	0.31	0.33	0	
Sulfate	**mg/L**	0.50	-	0.50	15	15	-	0.00	0.5	0.50	10	10	0.00	0.00
WQ04- Nutrients and Chlorophyll a														
Ammonia Nitrogen (a	**mg/L**	0.050	-	0.050	0.050	0.050	-	0.00	0.05	0.050	0.050	0.050	0.00	0.00
Nitrate (as N)	**mg/L**	0.10	0.1	0.10	0.10	0.10	0.00	0.00	0.1	0.10	0.10	0.10	0.00	0.00
Nitrite (as N)	**mg/L**	0.010	0.01	0.010	0.010	0.010	0.00	0.00	0.01	0.010	0.010	0.010	0.00	0.00
Nitrate + nitrite (as N	**mg/L**	0.10	-	0.10	0.10	0.10	-	0.00	-	0.10	0.10	0.10	-	0.00
Total Kjeldahl nitroge	**mg/L**	0.10	-	0.10	0.23	0.22	-	4.44	0.1	0.10	0.16	0.16	0.00	0.00
Total phosphorus	**mg/L**	0.020	-	0.020	0.020	0.020	-	0.00	0.02	0.020	0.046	0.020	0.00	**78.79**
Orthophosphate (P)	**mg/L**	0.010	0.01	0.010	0.010	0.010	0.00	0.00	0.01	0.010	0.010	0.010	0.00	0.00
WQ06- Total Metals														
Aluminum	**mg/L**	0.0030	-	0.0030	0.0044	0.0045	-	2.25	0.003	0.0030	0.0036	0.0035	0.00	2.82
Antimony	**mg/L**	0.00050	-	0.00050	0.00050	0.00050	-	0.00	0.0005	0.00050	0.00050	0.00050	0.00	0.00
Arsenic	**mg/L**	0.00010	-	0.00010	0.00083	0.00081			0.0001	0.00010	0.00061	0.00061		
Barium	**mg/L**	0.0010	-	0.0010	0.0138	0.0138	-	0.00	0.001	0.0010	0.0099	0.0097	0.00	2.04
Beryllium	**mg/L**	0.00010	-	0.00010	0.00010	0.00010	-	0.00	0.0001	0.00010	0.00010	0.00010	0.00	0.00
Bismuth	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	**mg/L**	0.050	-	0.050	0.050	0.050	-	0.00	0.05	0.050	0.050	0.050	0.00	0.00

Cadmium	**mg/L**	0.000010	-	0.000010	0.000010	0.000010	-	0.00	0.00001	0.000010	0.000010	0.000010	0.00	0.00
Calcium (total)	**mg/L**	0.050	-	0.050	14.4	14.3	-	0.70	-	0.050	10.6	10.2	-	3.85
Chromium	**mg/L**	0.0010	-	0.0010	0.0010	0.0010	-	0.00	0.001	0.0010	0.0010	0.0010	0.00	0.00
Cobalt	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	**mg/L**	0.00050	-	0.00050	0.00115	0.00115	-	0.00	0.0005	0.00050	0.00078	0.00075	0.00	3.92
Iron	**mg/L**	0.010	-	0.010	0.022	0.022	-	0.00	0.01	0.010	0.023	0.023	0.00	0.00
Lead	**mg/L**	0.00020	-	0.00020	0.00020	0.00020	-	0.00	0.0002	0.00020	0.00020	0.00020	0.00	0.00
Lithium	**mg/L**	0.0020	-	0.0020	0.0020	0.0020	-	0.00	0.002	0.0020	0.0020	0.0020	0.00	0.00
Magnesium (total)	**mg/L**	0.050	-	0.050	2.48	2.54	-	2.39	-	0.050	1.85	1.75	-	5.56
Manganese	**mg/L**	0.0010	-	0.0010	0.0075	0.0073	-	2.70	0.001	0.0010	0.0197	0.0184	0.00	6.82
Mercury	**mg/L**	0.00001	0.00001	0.00001	0.00001	0.00001			0.00001	0.00001	0.00001	0.00001		
Molybdenum	**mg/L**	0.0010	-	0.0010	0.0010	0.0010	-	0.00	0.001	0.0010	0.0010	0.0010	0.00	0.00
Nickel	**mg/L**	0.0010	-	0.0010	0.0012	0.0011	-	8.70	0.001	0.0010	0.0010	0.0010	0.00	0.00
Potassium (total)	**mg/L**	0.050	-	0.050	1.46	1.45	-	0.69	-	0.050	1.15	1.10	-	4.44
Selenium	**mg/L**	0.00010	-	0.00010	0.00010	0.00010	-	0.00	0.0001	0.00010	0.00010	0.00010	0.00	0.00
Silicon	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	**mg/L**	0.000020	-	0.000020	0.000020	0.000020	-	0.00	0.00002	0.000020	0.000020	0.000020	0.00	0.00
Sodium (total)	**mg/L**	0.050	-	0.050	9.94	9.79	-	1.52	-	0.050	7.23	6.74	-	7.02
Strontium	**mg/L**	0.0010	-	0.0010	0.0756	0.0742	-	1.87	0.001	0.0010	0.0553	0.0514	0.00	7.31
Thallium	**mg/L**	0.000010	-	0.000010	0.000010	0.000010	-	0.00	0.00001	0.000010	0.000010	0.000010	0.00	0.00
Tin	**mg/L**	0.0050	-	0.0050	0.0050	0.0050	-	0.00	0.005	0.0050	0.0050	0.0050	0.00	0.00
Titanium	**mg/L**	0.0050	-	0.0050	0.0050	0.0050	-	0.00	0.005	0.0050	0.0050	0.0050	0.00	0.00
Uranium	**mg/L**	0.00010	-	0.00010	0.00010	0.00010	-	0.00	0.0001	0.00010	0.00010	0.00010	0.00	0.00
Vanadium	**mg/L**	0.0050	-	0.0050	0.0050	0.0050	-	0.00	0.005	0.0050	0.0050	0.0050	0.00	0.00
Zinc	**mg/L**	0.0050	-	0.0050	0.0050	0.0050	-	0.00	0.005	0.0050	0.0050	0.0050	0.00	0.00
Zirconium	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
WQ07- Dissolved Metals														
Aluminum	**mg/L**	0.0030	-	0.0030	0.0030	0.0030	-	0.00	0.003	0.0030	0.0030	0.0030	0.00	0.00
Antimony	**mg/L**	0.00050	-	0.00050	0.00050	0.00050	-	0.00	0.0005	0.00050	0.00050	0.00050	0.00	0.00
Arsenic	**mg/L**	0.00010	-	0.00010	0.00080	0.00078	-	2.53	0.0001	0.00010	0.00055	0.00056	0.00	1.80
Barium	**mg/L**	0.0010	-	0.0010	0.0137	0.0144	-	4.98	0.001	0.0010	0.0100	0.0101	0.00	1.00
Beryllium	**mg/L**	0.00010	-	0.00010	0.00010	0.00010	-	0.00	0.0001	0.00010	0.00010	0.00010	0.00	0.00
Bismuth	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	**mg/L**	0.050	-	0.050	0.050	0.050	-	0.00	0.05	0.050	0.050	0.050	0.00	0.00
Cadmium	**mg/L**	0.000010	-	0.000010	0.000010	0.000010	-	0.00	0.00001	0.000010	0.000010	0.000010	0.00	0.00
Calcium (Dissolved)	**mg/L**	0.050	-	0.050	13.7	14.1	-	2.88	-	0.050	10.9	10.6	-	2.79
Chromium	**mg/L**	0.0010	-	0.0010	0.0010	0.0010	-	0.00	0.001	0.0010	0.0010	0.0010	0.00	0.00
Cobalt	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	**mg/L**	0.00020	-	0.00020	0.00132	0.00133	-	0.75	0.0002	0.00020	0.00074	0.00080	0.00	7.79
Iron	**mg/L**	0.0050	-	0.0050	0.0104	0.0147	-	**34.26**	0.005	0.0050	0.0050	0.0059	0.00	16.51
Lead	**mg/L**	0.00020	-	0.00020	0.00020	0.00020	-	0.00	0.0002	0.00020	0.00020	0.00020	0.00	0.00
Lithium	**mg/L**	0.0020	-	0.0020	0.0020	0.0020	-	0.00	0.002	0.0020	0.0020	0.0020	0.00	0.00
Magnesium (Dissolve	**mg/L**	0.050	-	0.050	2.68	2.66	-	0.75	-	0.050	1.85	1.85	-	0.00
Manganese	**mg/L**	0.0010	-	0.0010	0.0027	0.0028	-	3.64	0.001	0.0010	0.0010	0.0010	0.00	0.00
Mercury	**mg/L**	0.00001	-	0.00001	0.00001	0.00001	-	0.00	0.00001	0.00001	0.00001	0.00001	0.00	0.00
Molybdenum	**mg/L**	0.0010	-	0.0010	0.0010	0.0010	-	0.00	0.001	0.0010	0.0010	0.0010	0.00	0.00

Nickel	**mg/L**	0.0010	-	0.0010	0.0012	0.0012	-	0.00	0.001	0.0010	0.0010	0.0010	0.00	0.00
Potassium (Dissolved	**mg/L**	0.050	-	0.050	1.54	1.54	-	0.00	-	0.050	1.18	1.16	-	1.71
Selenium	**mg/L**	0.00010	-	0.00010	0.00010	0.00010	-	0.00	0.0001	0.00010	0.00010	0.00010	0.00	0.00
Silicon	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	**mg/L**	0.000020	-	0.000020	0.000020	0.000020	-	0.00	0.00002	0.000020	0.000020	0.000020	0.00	0.00
Sodium (Dissolved)	**mg/L**	0.050	-	0.050	10.4	10.4	-	0.00	-	0.050	7.20	7.05	-	2.11
Strontium	**mg/L**	0.0010	-	0.0010	0.0770	0.0774	-	0.52	0.001	0.0010	0.0600	0.0585	0.00	2.53
Thallium	**mg/L**	0.000010	-	0.000010	0.000010	0.000010	-	0.00	0.00001	0.000010	0.000010	0.000010	0.00	0.00
Tin	**mg/L**	0.0050	-	0.0050	0.0050	0.0050	-	0.00	0.005	0.0050	0.0050	0.0050	0.00	0.00
Titanium	**mg/L**	0.0050	-	0.0050	0.0050	0.0050	-	0.00	0.005	0.0050	0.0050	0.0050	0.00	0.00
Uranium	**mg/L**	0.00010	-	0.00010	0.00010	0.00010	-	0.00	0.0001	0.00010	0.00010	0.00010	0.00	0.00
Vanadium	**mg/L**	0.0050	-	0.0050	0.0050	0.0050			0.005	0.0050	0.0050	0.0050		
Zinc	**mg/L**	0.0050	-	0.0050	0.0050	0.0050	-	0.00	0.005	0.0050	0.0050	0.0050	0.00	0.00
Zirconium	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
% Exceedance*							0%	0%					0%	0%

Footnotes:

RPD = Relative Percent Difference; MDL: Method Detection Limit

All value "<DL" have been replaced by "DL".

* Although usually consistent, in the rare event that there were two different RDLs for different sampling events, the lower one was used. This may cause artifical 10x MDL exceedances.

Bold values correspond to a RPD higher than 20% and for which concentrations of parent and duplicate samples are within 10x the MDL.

Grey shaded cells correspond to a RPD higher than 20% and for which concentrations of parent and duplicate samples are above 10x the MDL.

Bold & Italic values correspond to a RPD higher than 20% and for which one of the result is within 10X the MDL and the other one exceeds 10x the MDL.

MEL-12	Sample date	Average						6/16/2025	7/7/2025	8/4/2025	9/1/2025	10/6/2025
Parameter	**Unit**	*2020*	*2021*	*2022*	*2023*	*2024*	*2025*					
WQ01- Field Measured												
Temperature	°C	*7.59*	*7.79*	*15.2*	*14.2*	*8.93*	*9.36*	8.2	13.9	13.9	9	1.8
pH	pH units	*7.27*	*7.68*	*7.62*	*7.82*	*8.3*	*8.21*	9.19	7.86	8.14	7.83	8.03
Conductivity	uS/cm	*4507.29*	*2612*	*2407*	*2348.8*	*2209.25*	*1816.40*	1160	1548	1931	1172	3271
Dissolved oxygen	mg/L	*11.23*	*10.72*	*8.14*	*21.12*	*458.69*	*10.91*	12.31	7.49	7.98	11.71	15.07
Dissolved oxygen	%	*87.3*	*91.8*	*87.1*	*72.15*	*56.19*	*93.94*	105	72.9	77.7	102	112.1
Turbidity	NTU	*-*	*2.8175*	*-*	*-*	*4.97*	*6.88*	8	3.77	3.79	7.62	11.2
WQ02- Conventional Parameters												
pH	pH units	*7.63*	*7.7*	*7.88*	*7.71*	*7.76*	*7.86*	7.93	7.68	7.98	7.8	7.93
Turbidity	NTU	*2.27*	*1.95*	*0.4*	*0.54*	*2.38*	*3.02*	2.7	2.5	1.8	5.4	2.7
Conductivity	umhos/cm	*4514.29*	*2566.67*	*-*	*-*	*2222.50*	*1890.00*	1180.00	1370.00	2000.00	1710.00	3190.00
Hardness, as CaCO3	mg/L	*1066.86*	*583.17*	*480*	*428.2*	*430.25*	*395.40*	241	258	410	352	716
Total alkalinity, as Ca	mg/L	*102.43*	*75.5*	*75*	*73.8*	*71.50*	*77.20*	47	69	80	80	110
TDS	mg/L	*2868.57*	*1540*	*1320*	*1422*	*1,436.25*	*1164.00*	830	770	1220	1050	1950
TDS, calculated	mg/L	*-*	*1700*	*1233*	*1266*	*1,203*	*1052.00*	640	740	1100	980	1800
TSS	mg/L	*6.57*	*6.33*	*4*	*5.8*	*6.50*	*9.60*	7	5	3	26	7
WQ03- Major Ions												
Chloride	mg/L	*1250*	*618.33*	*527*	*548*	*475.00*	*378.00*	220	270	420	370	610
Cyanide	mg/L	*0.01*	*0*	*0.00518*	*0*	*0.002*	*0.00*	0.00421	0.00147	0.00166	0.00146	0.00282
Fluoride	mg/L	*0.1*	*0.09*	*0.10*	*0.07*	*0.08*	*0.07*	< 0.10	< 0.10	< 0.10	0.11	0.1
Silica	mg/L	*-*	*0.58*	*0.305*	*0.26*	*0.96*	*0.91*	1.2	0.43	0.72	0.52	1.7
Sulfate	mg/L	*237.14*	*220*	*213*	*212*	*237.50*	*230.00*	140	160	230	210	410
WQ04- Nutrients and Chlorophyll a												
Ammonia Nitrogen (a	mg/L	*6.69*	*1.25*	*0.36*	*0.29*	*0.79*	*0.62*	0.16	0.44	0.53	0.091	1.9
Nitrate (as N)	mg/L	*24.56*	*15.06*	*7.11*	*5.44*	*7.09*	*8.11*	6.72	5.8	9.15	5.6	13.3
Nitrite (as N)	mg/L	*0.2*	*0.37*	*0.195*	*0.17*	*0.21*	*0.15*	0.115	0.154	0.209	0.052	0.2
Total phosphorus	mg/L	*0.1*	*0.08*	*0.054*	*0.09*	*0.05*	*0.06*	0.066	0.043	0.027	0.12	0.064
Orthophosphate (P)	mg/L	*0.05*	*0.03*	*0.032*	*0.04*	*0.02*	*0.02*	< 0.010	< 0.010	< 0.010	0.051	0.013
WQ06- Total Metals												
Aluminum	mg/L	*0.33157*	*0.15543*	*0.2118*	*0.1456*	*0.15320*	*0.17210*	0.139	0.104	0.091	0.429	0.0975
Arsenic	mg/L	*0.01364*	*0.01752*	*0.0166*	*0.02094*	*0.01970*	*0.02426*	0.0256	0.0239	0.0217	0.0312	0.0189
Barium	mg/L	*0.15166*	*0.06772*	*0.0569*	*0.04744*	*0.04095*	*0.03764*	0.022	0.0274	0.0424	0.041	0.0554
Cadmium	mg/L	*0.00006*	*0.00003*	*0.000017*	*0.00002*	*0.00002*	*0.00002*	0.000023	0.000015	0.000024	0.000012	< 0.000020
Chromium	mg/L	*0.00229*	*0.00067*	*0.0005*	*0.0005*	*0.00050*	*0.00062*	< 0.0010	< 0.0010	< 0.0010	0.0011	< 0.0020
Copper	mg/L	*0.00288*	*0.00284*	*0.00325*	*0.00324*	*0.00305*	*0.00299*	0.00274	0.0026	0.00283	0.00366	0.0031
Iron	mg/L	*0.25829*	*0.2165*	*0.140*	*0.167*	*0.19725*	*0.36660*	0.218	0.146	0.12	0.962	0.387
Lead	mg/L	*0.00118*	*0.00127*	*0.00058*	*0.00043*	*0.00057*	*0.00082*	0.0008	0.0004	0.00033	0.00196	0.00059
Manganese	mg/L	*0.973*	*0.23283*	*0.06517*	*0.06212*	*0.11063*	*0.10840*	0.192	0.0658	0.0696	0.0826	0.132
Mercury	mg/L	*0.00004*	*0.00001*	*0.000010*	*0.00001*	*0.00001*	*0.00001*	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	mg/L	*0.00404*	*0.00493*	*0.0062*	*0.00546*	*0.00538*	*0.00512*	0.0041	0.0047	0.006	0.0046	0.0062
Nickel	mg/L	*0.00934*	*0.00715*	*0.0047*	*0.00472*	*0.00720*	*0.00610*	0.0045	0.0045	0.0067	0.0051	0.0097
Selenium	mg/L	*0.00044*	*0.00101*	*0.00043*	*0.00064*	*0.00078*	*0.00067*	0.00046	0.00055	0.00092	0.00047	0.00093
Silver	mg/L	*0.00005*	*0.00001*	*0.000010*	*0.00001*	*0.00001*	*0.00001*	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000040
Thallium	mg/L	*0.00005*	*0.00003*	*0.00003*	*0.00002*	*0.00002*	*0.00001*	< 0.000010	0.000013	0.000023	0.000012	< 0.000020
Zinc	mg/L	*0.02503*	*0.00767*	*0.0038*	*0.0025*	*0.00400*	*0.00422*	0.0053	< 0.0050	< 0.0050	0.0058	< 0.010
WQ07- Dissolved Metals												
Calcium (Dissolved)	mg/L	*296.71429*	*155.33333*	*125.0*	*123.06*	*119.88*	*103.74*	66.2	71.1	101	95.4	185
Magnesium (Dissolv	mg/L	*74.1*	*44.1*	*35.9*	*37.96*	*38.48*	*33.50*	20.1	22.3	33.4	31.7	60
Potassium (Dissolved	mg/L	*33*	*20.93333*	*19.9*	*21.66*	*19.95*	*16.56*	11.4	11.8	18	16.4	25.2
Sodium (Dissolved)	mg/L	*470.71429*	*273.16667*	*242*	*255*	*235.25*	*198.60*	120	138	210	182	343

		Sample date	7/7/2025					
		Sample type	Lab Blank	Field Blank	Original	Duplicate		
		LAB_SDG	C582496	C582496	C582496	C582496	C582496	C582496
Parameter	Unit	MDL					RPD (LB/FB)	RPD (N/FD)
WQ02- Conventional Parameters								
pH	**pH units**	-	-	6.73	7.68	7.78	-	1.29
Dissolved Oxygen	%	-	-	62	72.9	72.9	-	0.00
Turbidity	**NTU**	0.1	0.1	0.1	2.5	1.8	0.00	32.56
Conductivity	**ms/cm**	0.002	0.002	0.002	1.37	1.37	0.00	0.00
Hardness, as CaCO3	**mg/L**	0.50	-	0.50	258	272	-	5.28
Hardness, as CaCO3-I	**mg/L**	0.50	-	0.50	269	282	-	4.72
Total alkalinity, as Ca	**mg/L**	1	1	2.3	69	68	78.79	1.46
TDS	**mg/L**	10	10	10	770	770	0.00	0.00
TDS, calculated	**mg/L**	1	-	2.0	740	760	-	2.67
TSS	**mg/L**	1	1	1	5	4	0.00	**22.22**
Total organic carbon	**mg/L**	0.40	0.4	0.40	5.7	5.8	0.00	1.74
WQ03- Major Ions								
Chloride	**mg/L**	1.0	1	1.0	270	270	0.00	0.00
Cyanide	**mg/L**	0.00050	0.0005	0.00050	0.00147	0.00137	0.00	7.04
Fluoride	**mg/L**	0.10	0.1	0.10	0.10	0.10	0.00	0.00
Silica	**mg/L**	0.050	0.05	0.050	0.43	0.50	0.00	15.05
Sulfate	**mg/L**	0.50	0.5	0.50	160	160	0.00	0.00
WQ04- Nutrients and Chlorophyll a								
Ammonia Nitrogen (a	**mg/L**	0.050	0.05	0.050	0.44	0.43	0.00	2.30
Nitrate (as N)	**mg/L**	0.10	0.1	0.10	5.80	5.86	0.00	1.03
Nitrite (as N)	**mg/L**	0.010	0.01	0.010	0.154	0.154	0.00	0.00
Nitrate + nitrite (as N	**mg/L**	0.10	-	0.10	5.95	6.01	-	1.00
Total phosphorus	**mg/L**	0.020	0.02	0.020	0.043	0.042	0.00	2.35
Orthophosphate (P)	**mg/L**	0.010	0.01	0.010	0.010	0.010	0.00	0.00
WQ06- Total Metals								
Aluminum	**mg/L**	0.0030	0.003	0.0030	0.104	0.102	0.00	1.94
Antimony	**mg/L**	-	0.0005	-	-	-	-	-
Arsenic	**mg/L**	0.00010	0.0001	0.00010	0.0239	0.0248	0.00	3.70
Barium	**mg/L**	0.0010	0.001	0.0010	0.0274	0.0281	0.00	2.52
Beryllium	**mg/L**	-	0.0001	-	-	-	-	-
Boron	**mg/L**	-	0.05	-	-	-	-	-
Cadmium	**mg/L**	0.000010	0.00001	0.000010	0.000015	0.000013	0.00	14.29
Calcium (total)	**mg/L**	0.050	-	0.050	69.2	72.7	-	4.93
Chromium	**mg/L**	0.0010	0.001	0.0010	0.0010	0.0010	0.00	0.00
Cobalt	**mg/L**		0.0002	-	-	-	-	-
Copper	**mg/L**	0.00050	0.0005	0.00050	0.00260	0.00264	0.00	1.53
Iron	**mg/L**	0.010	0.01	0.010	0.146	0.145	0.00	0.69
Lead	**mg/L**	0.00020	0.0002	0.00020	0.00040	0.00039	0.00	2.53
Lithium	**mg/L**	-	0.002	-	-	-	-	-
Magnesium (total)	**mg/L**	0.050	-	0.050	20.7	22.0	-	6.09
Manganese	**mg/L**	0.0010	0.003	0.0010	0.0658	0.0667	**100.00**	1.36
Mercury	**mg/L**	0.00001	0.00001	0.00001	0.00001	0.00001	0.00	0.00
Molybdenum	**mg/L**	0.0010	0.001	0.0010	0.0047	0.0049	0.00	4.17
Nickel	**mg/L**	0.0010	0.001	0.0010	0.0045	0.0046	0.00	2.20
Potassium (total)	**mg/L**	0.050	-	0.050	11.2	11.6	-	3.51
Selenium	**mg/L**	0.00010	0.0001	0.00010	0.00055	0.00056	0.00	1.80
Silver	**mg/L**	0.000020	0.00002	0.000020	0.000020	0.000020	0.00	0.00

Sodium (total)	**mg/L**	0.050	-	0.050	128	134	-	4.58
Strontium	**mg/L**	-		-	-	-	-	-
Thallium	**mg/L**	0.000010	0.00001	0.000010	0.000013	0.000012	0.00	8.00
Tin	**mg/L**	-	0.005	-	-	-	-	-
Titanium	**mg/L**	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00
Uranium	**mg/L**	-	0.0001	-	-	-	-	-
Vanadium	**mg/L**	-	0.005	-	-	-	-	-
Zinc	**mg/L**	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00
WQ07- Dissolved Metals								
Aluminum	**mg/L**	0.0030	0.0030	0.0030	0.0697	0.0769	0.00	9.82
Antimony	**mg/L**	-	0.00050	-	-	-	-	-
Arsenic	**mg/L**	0.00010	0.00010	0.00010	0.0239	0.0240	0.00	0.42
Barium	**mg/L**	0.0010	0.0010	0.0010	0.0289	0.0291	0.00	0.69
Beryllium	**mg/L**	-	0.00010	-	-	-	-	-
Boron	**mg/L**	-	0.050	-	-	-	-	-
Cadmium	**mg/L**	0.000010	0.00001	0.000010	0.000011	0.000014	0.00	**24.00**
Calcium (Dissolved)	**mg/L**	0.05	-	0.103	71.1	73.6	-	3.46
Chromium	**mg/L**	0.0010	0.0010	0.0010	0.0010	0.0010	0.00	0.00
Cobalt	**mg/L**	-	0.00020	-	-	-	-	-
Copper	**mg/L**	0.00020	0.00020	0.00020	0.00264	0.00260	0.00	1.53
Iron	**mg/L**	0.0050	0.005	0.0050	0.0452	0.0451	0.00	0.22
Lead	**mg/L**	0.00020	0.00020	0.00020	0.00020	0.00020	0.00	0.00
Lithium	**mg/L**	-	0.0020	-	-	-	-	-
Magnesium (Dissolv	**mg/L**	0.050	-	0.050	22.3	23.8	-	6.51
Manganese	**mg/L**	0.0010	0.001	0.0010	0.0575	0.0564	0.00	1.93
Mercury	**mg/L**	0.00001	0.00001	0.00001	0.00001	0.00001	0.00	0.00
Molybdenum	**mg/L**	0.0010	0.0010	0.0010	0.0051	0.0052	0.00	1.94
Nickel	**mg/L**	0.0010	0.0010	0.0010	0.0045	0.0044	0.00	2.25
Potassium (Dissolved	**mg/L**	0.050	-	0.050	11.8	12.1	-	2.51
Selenium	**mg/L**	0.00010	0.00010	0.00010	0.00052	0.00053	0.00	1.90
Silver	**mg/L**	0.000020	0.000020	0.000020	0.000020	0.000020	0.00	0.00
Sodium (Dissolved)	**mg/L**	0.050	-	0.101	138	150	-	8.33
Strontium	**mg/L**	-	0.0010	-	-	-	-	-
Thallium	**mg/L**	0.000010	0.000010	0.000010	0.000013	0.000013	0.00	0.00
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	0.0050	0.0050	0.0050	0.0050	0.00	0.00
% Exceedance*							1%	1%

Footnotes:

RPD = Relative Percent Difference; MDL: Method Detection Limit

All value "<DL" have been replaced by "DL".

* Although usually consistent, in the rare event that there were two different RDLs for different sampling events, the lower one was used. This may cause artifical 10x MDL exceedances.

Bold values correspond to a RPD higher than 20% and for which concentrations of parent and duplicate samples are within 10x the MDL.

Grey shaded cells correspond to a RPD higher than 20% and for which concentrations of parent and duplicate samples are above 10x the MDL.

Bold & Italic values correspond to a RPD higher than 20% and for which one of the result is within 10X the MDL and the other one exceeds 10x the MDL.

MEL-13	Sample date	Average						7/13/2025	8/12/2025	9/8/2025	10/3/2025
Parameter	**Unit**	2020	2021	2022	2023	2024	2025				
WQ01- Field Measured											
Temperature	°C	*10.26*	*7.06*	*13.85*	*11.46*	*8.72*	*9.87*	11.90	12.50	9.59	5.50
pH	pH units	*7.69*	*7.44*	*7.43*	*7.64*	*7.85*	*7.50*	7.23	7.80	7.47	7.51
Conductivity	uS/cm	*114.05*	*105.78*	*115.2*	*113.43*	*110.63*	*149.13*	140.00	142.10	160.70	153.70
Dissolved oxygen	mg/L	*123.6*	*10.31*	*11.07*	*10.25*	*11.26*	*10.89*	11.20	9.27	11.34	13.77
Dissolved oxygen	%	*101.52*	*101.6*	*107.5*	*96.53*	*97.47*	*100.18*	102.40	87.00	102.30	109.00
WQ02- Conventional Parameters											
pH	pH units	*7.32*	*7.26*	*7.49*	*7.16*	*7.45*	*7.55*	7.44	7.44	7.61	7.70
Dissolved Oxygen	mg/L	*10.33*	*10.42*	-	-	*10.97*	*10.78*	10.10	10.30	11.10	11.60
Turbidity	NTU	*0.36*	*0.41*	*0.3*	*0.33*	*0.47*	*0.43*	0.60	0.40	0.40	0.30
Conductivity	umhos/cm	*115.71*	*116*	*115*	*113.33*	*141.33*	*182.75*	185.00	144.00	160.00	242.00
Hardness, as CaCO3	mg/L	*29.81*	*30.92*	*30.0*	*29.97*	*34.97*	*39.03*	38.80	40.20	37.30	39.80
Total alkalinity, as CaCO3	mg/L	*16.86*	*18.2*	*21*	*22.00*	*23.33*	*24.00*	23.00	22.00	24.00	27.00
Carbonate, as CaCO3	mg/L	*1*	*0.5*	*0.5*	*0.50*	*0.50*	*0.50*	< 1.0	< 1.0	< 1.0	< 1.0
Bicarbonate, as CaCO3	mg/L	*16.86*	*18*	*21*	*22.00*	*23.33*	*24.00*	23.00	22.00	24.00	27.00
TDS	mg/L	*80*	*75*	*82.50*	*71.67*	*70.00*	*81.25*	85.00	100.00	60.00	80.00
TDS, calculated	mg/L	-	*59.5*	*57*	*56.33*	*64.00*	*72.25*	72.00	71.00	70.00	76.00
TSS	mg/L	*1.36*	*1.3*	*0.8*	*0.67*	*1.50*	*0.88*	1.00	1.00	1.00	< 1
Total organic carbon	mg/L	*3.37*	*3.5*	*3.8*	*3.70*	*3.70*	*3.73*	3.60	3.90	3.90	3.50
Dissolved organic carbon	mg/L	*3.36*	*3.18*	*3.7*	*3.53*	*3.80*	*3.53*	3.50	3.40	3.70	3.50
WQ03- Major Ions											
Chloride	mg/L	*18.21*	*18.8*	*18*	*14.33*	*18.00*	*19.50*	19.00	20.00	18.00	21.00
Cyanide	mg/L	*0.005*	*0.0025*	*0.00076*	*0.0003*	*0.0003*	*0.00*	< 0.00050	0.00	< 0.00050	< 0.00050
Cyanide (free)	mg/L	*0.001*	*0.0033*	*0.0015*	*0.0029*	*0.0014*	*0.00*	0.00	0.00	< 0.00050	0.00
Cyanide (WAD)	mg/L	*0.0011*	*0.0007*	*0.00049*	*0.0003*	*0.0004*	*0.00*	< 0.00050	< 0.00050	< 0.00050	< 0.00050
Silica	mg/L	*0.33*	*0.29*	*0.34*	*0.60*	*0.62*	*0.48*	0.82	0.44	0.36	0.31
Sulfate	mg/L	*5.78*	*6.86*	*6.9*	*7.80*	*9.27*	*13.75*	14.00	13.00	14.00	14.00
WQ04- Nutrients and Chlorophyll a											
Ammonia Nitrogen (as N)	mg/L	*0.12*	*0.03*	*0.025*	*0.03*	*0.07*	*0.03*	< 0.050	< 0.050	< 0.050	< 0.050
Nitrate (as N)	mg/L	*0.11*	*0.06*	*0.05*	*0.05*	*0.05*	*0.05*	< 0.10	< 0.10	< 0.10	< 0.10
Nitrite (as N)	mg/L	*0.01*	*0.01*	*0.005*	*0.01*	*0.01*	*0.01*	< 0.010	< 0.010	< 0.010	< 0.010
Total Kjeldahl nitrogen	mg/L	*0.22*	*0.22*	*0.21*	*0.23*	*0.27*	*0.18*	0.18	0.20	0.19	0.16
Total phosphorus	mg/L	*0.02* *0.011*	*0.014* *0.009*	*0.018* *0.0047*	*0.017* *0.012*	*0.010*	*0.01*	< 0.020	< 0.020	< 0.020	< 0.020
Orthophosphate (P)	mg/L	*0.01*	*0.005*	*0.005*	*0.005*	*0.005*	*0.01*	< 0.010	< 0.010	< 0.010	< 0.010
WQ06- Total Metals											
Aluminum	mg/L	*0.0068*	*0.00644*	*0.00399*	*0.00348*	*0.00650*	*0.0062100*	0.01	0.00	0.00	0.00
Antimony	mg/L	*0.00002*	*0.00001*	*0.000016*	*0.00009*	*0.00002*	*0.0000208*	0.00	0.00	< 0.000020	0.00
Arsenic	mg/L	*0.00051*	*0.00048*	*0.000534*	*0.00056*	*0.00063*	*0.0008110*	0.00	0.00	0.00	0.00
Barium	mg/L	*0.00862*	*0.00914*	*0.00855*	*0.00829*	*0.00917*	*0.0113250*	0.01	0.01	0.01	0.01
Beryllium	mg/L	*0.00001*	*0.00001*	*0.000005*	*0.00002*	*0.00001*	*0.0000050*	< 0.000010	< 0.000010	< 0.000010	< 0.000010
Boron	mg/L	*0.01*	*0.0062*	*0.005*	*0.01167*	*0.00700*	*0.0050000*	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	mg/L	*0.00001*	*0.000004*	*0.0000025*	*0.000003*	*0.000003*	*0.0000025*	< 0.0000050	< 0.0000050	< 0.0000050	< 0.0000050
Chromium	mg/L	*0.0001*	*0.00005*	*0.00005*	*0.00035*	*0.00014*	*0.0001150*	0.00	< 0.00010	0.00	0.00
Cobalt	mg/L	*0.00003*	*0.00003*	*0.00002*	*0.00005*	*0.00003*	*0.0000304*	0.00	0.00	0.00	0.00
Copper	mg/L	*0.00085*	*0.00085*	*0.000944*	*0.00088*	*0.00106*	*0.0009095*	0.00	0.00	0.00	0.00
Iron	mg/L	*0.03201*	*0.02414*	*0.0209*	*0.02143*	*0.02240*	*0.0192250*	0.03	0.02	0.01	0.01
Lead	mg/L	*0.00002*	*0.00002*	*0.0000104*	*0.00004*	*0.00002*	*0.0000077*	0.00	0.00	< 0.0000050	< 0.0000050
Lithium	mg/L	*0.00143*	*0.00138*	*0.00110*	*0.00110*	*0.00104*	*0.0010925*	0.00	0.00	0.00	0.00

Manganese	mg/L	*0.00777*	*0.00707*	*0.00584*	*0.00786*	*0.00521*	*0.0067525*	0.01	0.01	0.01	0.00
Mercury	mg/L	*0.00001*	*0.00001*	*0.000005*	*0.00001*	*0.00001*	*0.0000050*	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	mg/L	*0.00012*	*0.00016*	*0.000130*	*0.00027*	*0.00023*	*0.0001695*	0.00	0.00	0.00	0.00
Nickel	mg/L	*0.00075*	*0.00074*	*0.000765*	*0.00071*	*0.00073*	*0.0007935*	0.00	0.00	0.00	0.00
Selenium	mg/L	*0.00004*	*0.00003*	*0.000050*	*0.00005*	*0.00004*	*0.0000368*	0.00	0.00	< 0.000040	0.00
Silver	mg/L	*0.00001*	*0.000003*	*0.0000025*	*0.000005*	*0.000003*	*0.0000025*	< 0.0000050	< 0.0000050	< 0.0000050	< 0.0000050
Strontium	mg/L	*0.06401*	*0.0636*	*0.0572*	*0.05323*	*0.05957*	*0.0685750*	0.07	0.07	0.07	0.07
Thallium	mg/L	*0.000002*	*0.000002*	*0.0000013*	*0.000003*	*0.000002*	*0.0000027*	0.00	0.00	0.00	0.00
Tin	mg/L	*0.0002*	*0.0001*	*0.00010*	*0.00090*	*0.00010*	*0.0001000*	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Titanium	mg/L	*0.00053*	*0.00039*	*0.00025*	*0.00100*	*0.00025*	*0.0002500*	< 0.00050	< 0.00050	< 0.00050	< 0.00050
Uranium	mg/L	*0.00002*	*0.00003*	*0.0000262*	*0.00003*	*0.00004*	*0.0000389*	0.00	0.00	0.00	0.00
Vanadium	mg/L	*0.0002*	*0.0001*	*0.00010*	*0.00090*	*0.00010*	*0.0001000*	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Zinc	mg/L	*0.00045*	*0.00077*	*0.00076*	*0.00114*	*0.00057*	*0.0004000*	0.00	0.00	0.00	0.00
WQ07- Dissolved Metals											
Aluminum	mg/L	*0.00452*	*0.00262*	*0.00241*	*0.00139*	*0.00413*	*0.003215*	0.01	0.00	0.00	0.00
Antimony	mg/L	*0.00002*	*0.00001*	*0.000013*	*0.00009*	*0.00001*	*0.000080*	< 0.00050	0.00	0.00	0.00
Arsenic	mg/L	*0.00048*	*0.00045*	*0.000511*	*0.00055*	*0.00059*	*0.000750*	0.00	0.00	0.00	0.00
Barium	mg/L	*0.00853*	*0.00885*	*0.00850*	*0.00869*	*0.00904*	*0.011075*	0.01	0.01	0.01	0.01
Beryllium	mg/L	*0.00001*	*0.00001*	*0.00001*	*0.00002*	*0.00001*	*0.000005*	< 0.00010	< 0.000010	< 0.000010	< 0.000010
Boron	mg/L	*0.01*	*0.0078*	*0.008*	*0.01633*	*0.00500*	*0.010000*	< 0.05	< 0.01	< 0.01	< 0.01
Cadmium	mg/L	*0.00001*	*0.000003*	*0.0000025*	*0.000006*	*0.000003*	*0.000002*	< 0.000010	< 0.0000050	< 0.0000050	< 0.0000050
Calcium (Dissolved)	mg/L	*9.10714*	*9.138*	*9.46*	*10.01000*	*10.61000*	*11.900000*	12.20	12.30	11.30	11.80
Chromium	mg/L	*0.0001*	*0.00006*	*0.00005*	*0.00022*	*0.00012*	*0.000228*	< 0.0010	< 0.00010	0.00	0.00
Cobalt	mg/L	*0.00002*	*0.00002*	*0.0000175*	*0.00004*	*0.00002*	*0.000039*	< 0.00020	0.00	0.00	0.00
Copper	mg/L	*0.0008*	*0.00081*	*0.000922*	*0.00081*	*0.00092*	*0.000968*	0.00	0.00	0.00	0.00
Iron	mg/L	*0.01026*	*0.00612*	*0.0105*	*0.00577*	*0.00580*	*0.002700*	< 0.0050	0.00	0.00	0.00
Lead	mg/L	*0.00001*	*0.000004*	*0.0000035*	*0.000035*	*0.000007*	*0.000028*	< 0.00020	< 0.0000050	0.00	< 0.0000050
Lithium	mg/L	*0.00147*	*0.00128*	*0.00109*	*0.00119*	*0.00113*	*0.004200*	< 0.0020	0.00	0.00	0.00
Magnesium (Dissolved)	mg/L	*1.76929*	*1.81*	*1.79*	*1.78667*	*2.08000*	*2.160000*	2.20	2.20	2.02	2.22
Manganese	mg/L	*0.00127*	*0.00078*	*0.00242*	*0.00055*	*0.00081*	*0.000346*	< 0.0010	0.00	0.00	0.00
Mercury	mg/L	*0.00001*	*0.00001*	*0.000005*	*0.00001*	*0.00001*	*0.000005*	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	mg/L	*0.00013*	*0.00015*	*0.000133*	*0.00026*	*0.00016*	*0.000248*	< 0.0010	0.00	0.00	0.00
Nickel	mg/L	*0.00072*	*0.0007*	*0.000744*	*0.00068*	*0.00074*	*0.000683*	< 0.0010	0.00	0.00	0.00
Potassium (Dissolved)	mg/L	*1.13714*	*1.1208*	*1.13*	*1.15667*	*1.24000*	*1.280000*	1.25	1.26	1.35	1.26
Selenium	mg/L	*0.00004*	*0.00004*	*0.000032*	*0.00006*	*0.00003*	*0.000041*	< 0.00010	< 0.000040	0.00	0.00
Silver	mg/L	*0.00001*	*0.000003*	*0.0000025*	*0.000005*	*0.000003*	*0.000004*	< 0.000020	< 0.0000050	< 0.0000050	< 0.0000050
Sodium (Dissolved)	mg/L	*7.86714*	*8.14*	*7.69*	*7.94000*	*9.06333*	*9.032500*	9.36	9.35	8.29	9.13
Strontium	mg/L	*0.06476*	*0.06206*	*0.0571*	*0.05870*	*0.06187*	*0.068275*	0.07	0.07	0.07	0.07
Thallium	mg/L	*0.000002*	*0.000001*	*0.0000013*	*0.000004*	*0.000002*	*0.000002*	< 0.000010	< 0.0000020	< 0.0000020	0.00
Tin	mg/L	*0.0002*	*0.0001*	*0.00010*	*0.00090*	*0.00010*	*0.000700*	< 0.0050	< 0.00020	< 0.00020	< 0.00020
Titanium	mg/L	*0.00053*	*0.00025*	*0.00025*	*0.00100*	*0.00025*	*0.002500*	< 0.0050	< 0.00050	< 0.00050	< 0.00050
Uranium	mg/L	*0.00002*	*0.00003*	*0.0000241*	*0.00003*	*0.00003*	*0.000038*	< 0.00010	0.00	0.00	0.00
Vanadium	mg/L	*0.0002*	*0.0001*	*0.00010*	*0.00090*	*0.00010*	*0.000700*	< 0.0050	< 0.00020	< 0.00020	< 0.00020
Zinc	mg/L	*0.00052*	*0.00088*	*0.00132*	*0.00114*	*0.00064*	*0.000993*	< 0.0050	0.00	0.00	0.00
WQ08- Radionuclides											
Radium-226	Bq/l	*0.0059*	*0.0025*	*0.0025*	*0.0025*	*0.0025*	*0.0025*	< 0.0050	< 0.0050	< 0.0050	< 0.0050
WQ10- Volatile Organics											
Benzene	mg/L	*0.0002*	*0.0001*	*0.00010*	*0.0001*	*0.0001*	*0.00010*	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Ethylbenzene	mg/L	*0.0002*	*0.0001*	*0.00010*	*0.0001*	*0.0001*	*0.00010*	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Toluene	mg/L	*0.0002*	*0.0033*	*0.00010*	*0.0001*	*0.0001*	*0.00010*	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Xylenes	mg/L	*0.0004*	*0.0002*	*0.00020*	*0.0002*	*0.0002*	*0.00020*	< 0.00040	< 0.00040	< 0.00040	< 0.00040

m,p-Xylenes	mg/L	*0.0004*	*0.0002*	*0.00020*	*0.0002*	*0.0002*	*0.00020*	< 0.00040	< 0.00040	< 0.00040	< 0.00040
o-Xylene	mg/L	*0.0002*	*0.0001*	*0.00010*	*0.0001*	*0.0001*	*0.00010*	< 0.00020	< 0.00020	< 0.00020	< 0.00020
F1 (C6-C10)-BTEX	mg/L	*0.025*	*0.0125*	*0.0125*	*0.0125*	*0.0125*	*0.01250*	< 0.025	< 0.025	< 0.025	< 0.025
F1 (C6-C10)	mg/L	*0.025*	*0.0125*	*0.0125*	*0.0125*	*0.0125*	*0.01250*	< 0.025	< 0.025	< 0.025	< 0.025
F2 (C10-C16)	mg/L	*0.1*	*0.05*	*0.05*	*0.0500*	*0.0500*	*0.04500*	< 0.09	< 0.09	< 0.09	< 0.09
F3 (C16-C34)	mg/L	*0.2*	*0.1*	*0.1*	*0.1000*	*0.1000*	*0.10000*	< 0.2	< 0.2	< 0.2	< 0.2
F4 (C34-C50)	mg/L	*0.2*	*0.1*	*0.1*	*0.1000*	*0.1000*	*0.10000*	< 0.2	< 0.2	< 0.2	< 0.2

		Sample date	7/13/2025						9/8/2025					
		Sample type	Lab Blank	Field Blank	Original	Duplicate			Lab Blank	Field Blank	Original	Duplicate		
		LAB_SDG	C586392	C586392	C586392	C586392	C586392	C586392	C5B3114	C5B3114	C5B3114	C5B3114	C5B3114	C5B3114
Parameter	**Unit**	**MDL**					**RPD (LB/FB)**	**RPD (N/FD)**					**RPD (LB/FB)**	**RPD (N/FD)**
WQ02- Conventional Parameters														
pH	**pH units**	-	-	6.12	7.44	7.35	-	1.22	-	5.80	7.61	7.52	-	1.19
Dissolved Oxygen	%	-	-	73.9	103.6	103.6	-	0.00	-	-	-	-	-	-
Dissolved Oxygen	**mg/L**	-	-	10.3	10.1	10.1	-	0.00	-	11.1	11.1	11.3	-	1.79
Turbidity	**NTU**	0.1	0.1	0.1	0.6	0.7	0.00	15.38	0.1	0.1	0.4	0.5	0.00	**22.22**
Turbidity	**NTU**	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity	**ms/cm**	0.002	0.002	0.002	0.185	0.140	0.00	27.69	0.002	0.002	0.160	0.146	0.00	9.15
Conductivity	**uS/cm**	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardness, as CaCO3	**mg/L**	0.50	-	0.50	38.8	38.7	-	0.26	-	0.50	37.3	38.4	-	2.91
Hardness, as CaCO3-I	**mg/L**	0.50	-	0.50	39.5	39.2	-	0.76	-	0.50	36.7	36.1	-	1.65
Total alkalinity, as Ca	**mg/L**	1.0	1	1.0	23	22	0.00	4.44	1	1.0	24	23	0.00	4.26
Alkalinity, Phenolphtl	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbonate, as CaCO3	**mg/L**	1.0	-	1.0	1.0	1.0			-	1.0	1.0	1.0		
Bicarbonate, as CaCO	**mg/L**	1.0	-	1.0	23	22	-	4.44	-	1.0	24	23	-	4.26
Hydroxide, as CaCO3	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Total acidity	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
TDS	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
TDS	**mg/L**	10	10	10	85	85	0.00	0.00	10	10	60	55	0.00	8.70
TDS, calculated	**mg/L**	1.0	-	1.0	72	72			-	1.0	70	69		
TSS	**mg/L**	1	1	1	1	1	0.00	0.00	1	1	1	2	0.00	**66.67**
Total organic carbon	**mg/L**	0.40	0.4	0.40	3.6	3.6	0.00	0.00	0.4	0.40	3.9	3.9	0.00	0.00
Dissolved organic car	**mg/L**	0.40	0.4	0.40	3.5	3.4	0.00	2.90	0.4	0.40	3.7	3.9	0.00	5.26
WQ03- Major Ions														
Bromide	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Cation Sum	**meq/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	**mg/L**	1.0	1	1.0	19	19			1	1.0	18	19		
Cyanide	**mg/L**	0.00050	0.0005	0.00050	0.00050	0.00050	0.00	0.00	0.0005	0.00050	0.00050	0.00050	0.00	0.00
Cyanide (free)	**mg/L**	0.00050	0.0005	0.00050	0.00055	0.00050	0.00	9.52	0.0005	0.00050	0.00050	0.00050	0.00	0.00
Cyanide (WAD)	**mg/L**	0.00050	0.0005	0.00050	0.00050	0.00050	0.00	0.00	0.0005	0.00050	0.00050	0.00050	0.00	0.00
Fluoride	**mg/L**	0.10	0.1	0.10	0.10	0.10	0.00	0.00	0.1	0.10	0.10	0.10	0.00	0.00
Silica	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Silica	**mg/L**	0.050	0.05	0.050	0.82	0.82	0.00	0.00	0.05	0.050	0.36	0.39	0.00	8.00
Sulfate	**mg/L**	0.50	0.5	0.50	14	14	0.00	0.00	0.5	0.50	14	14	0.00	0.00
Ion Balance	%	-	-	-	-	-	-	-	-	-	-	-	-	-
WQ04- Nutrients and Chlorophyll a														
Ammonia Nitrogen (a	**mg/L**	0.050	0.05	0.050	0.050	0.050	0.00	0.00	0.05	0.050	0.050	0.050	0.00	0.00
Un-Ionized Ammonia	**mg/L**	0.0016	-	0.0016	0.0004	0.0004	-	0.00	-	-	0.0004	0.0004	-	0.00
Nitrate (as N)	**mg/L**	0.10	0.1	0.10	0.10	0.10	0.00	0.00	0.1	0.10	0.10	0.10	0.00	0.00
Nitrite (as N)	**mg/L**	0.010	0.01	0.010	0.010	0.010	0.00	0.00	0.01	0.010	0.010	0.010	0.00	0.00
Nitrate + nitrite (as N	**mg/L**	0.10	-	0.10	0.10	0.10	-	0.00	-	0.10	0.10	0.10	-	0.00
Total Kjeldahl nitroge	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-

Dissolved nitrogen	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Kjeldahl nitroge	**mg/L**	0.10	0.1	0.10	0.18	0.19	0.00	5.41	0.1	0.10	0.19	0.21	0.00	10.00
Nitrogen, Kjeldahl	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Kjeldahl Ni	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Total phosphorus	**mg/L**	0.020	0.02	0.020	0.020	0.020	0.00	0.00	0.02	0.020	0.020	0.020	0.00	0.00
Dissolved phosphorus	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Orthophosphate (P)	**mg/L**	0.010	0.01	0.010	0.010	0.010	0.00	0.00	0.01	0.010	0.010	0.010	0.00	0.00
Orthophosphate	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
WQ06- Total Metals														
Aluminum	**mg/L**	0.00050	0.0005	0.00050	0.0116	0.0110	0.00	5.31	0.0005	0.00050	0.00376	0.00502	0.00	***28.70***
Antimony	**mg/L**	0.000020	0.00002	0.000020	0.000024	0.000026	0.00	8.00	0.00002	0.000020	0.000020	0.000022	0.00	9.52
Arsenic	**mg/L**	0.000020	0.00002	0.000020	0.000843	0.000840	0.00	0.36	0.000025	0.000020	0.000764	0.000783	**22.22**	2.46
Barium	**mg/L**	0.000020	0.00002	0.000020	0.0115	0.0114	0.00	0.87	0.00002	0.000020	0.0110	0.0107	0.00	2.76
Beryllium	**mg/L**	0.000010	0.00001	0.000010	0.000010	0.000010	0.00	0.00	0.00001	0.000010	0.000010	0.000010	0.00	0.00
Bismuth	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	**mg/L**	0.01	0.01	0.01	0.01	0.01			0.01	0.01	0.01	0.01		
Cadmium	**mg/L**	0.0000050	0.000005	0.0000050	0.0000050	0.0000050	0.00	0.00	0.000005	0.0000050	0.0000050	0.0000050	0.00	0.00
Calcium (total)	**mg/L**	0.050	-	0.050	12.0	11.8	-	1.68	-	0.050	11.4	11.8	-	3.45
Cesium	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	**mg/L**	0.0001	0.0001	0.00016	0.00014	0.00018	**46.15**	**25.00**	0.0001	0.00010	0.00012	0.00012	0.00	0.00
Cobalt	**mg/L**	0.0000050	0.000005	0.0000050	0.0000459	0.0000452	0.00	1.54	0.000005	0.0000050	0.0000193	0.0000232	0.00	18.35
Copper	**mg/L**	0.000050	0.00005	0.000050	0.000904	0.000989	0.00	8.98	0.00005	0.000050	0.000826	0.000845	0.00	2.27
Gallium	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	**mg/L**	0.0010	0.001	0.0010	0.0332	0.0336	0.00	1.20	0.001	0.0010	0.0125	0.0151	0.00	18.84
Lanthanum	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	**mg/L**	0.000005	0.000005	0.0000198	0.0000178	0.0000150	**119.35**	17.07	0.000005	0.0000050	0.0000050	0.0000104	0.00	**70.13**
Lithium	**mg/L**	0.00050	0.0005	0.00050	0.00105	0.00097	0.00	7.92	0.0005	0.00050	0.00118	0.00130	0.00	9.68
Magnesium (total)	**mg/L**	0.050	-	0.050	2.16	2.25	-	4.08	-	0.050	2.17	2.20	-	1.37
Manganese	**mg/L**	0.000050	0.00005	0.000050	0.0121	0.0128	0.00	5.62	0.00007	0.000050	0.00500	0.00500	**33.33**	0.00
Mercury	**mg/L**	0.00001	0.00001	0.00001	0.00001	0.00001	0.00	0.00	-	0.00001	0.00001	0.00001	-	0.00
Mercury	ng/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	**mg/L**	0.000050	0.00005	0.000050	0.000177	0.000187	0.00	5.49	0.00005	0.000050	0.000158	0.000161	0.00	1.88
Nickel	**mg/L**	0.000030	0.00002	0.000030	0.000864	0.000947	**40.00**	9.17	0.00002	0.000020	0.000688	0.000771	0.00	11.38
Niobium	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium (total)	**mg/L**	0.050	-	0.050	1.17	1.23	-	5.00	-	0.050	1.29	1.28	-	0.78
Rhenium	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Rubidium	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	**mg/L**	0.000040	0.00004	0.000040	0.000041	0.000040	0.00	2.47	0.00004	0.000040	0.000040	0.000040	0.00	0.00
Silicon	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	**mg/L**	0.0000050	0.000005	0.0000050	0.0000050	0.0000050	0.00	0.00	0.000005	0.0000050	0.0000050	0.0000050	0.00	0.00
Sodium (total)	**mg/L**	0.050	-	0.050	9.13	9.32	-	2.06	-	0.050	8.79	8.54	-	2.89
Strontium	**mg/L**	0.000050	0.00005	0.000050	0.0671	0.0669	0.00	0.30	0.00005	0.000050	0.0667	0.0664	0.00	0.45
Sulfur	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Tantalum	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Tellurium	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	**mg/L**	0.0000020	0.000002	0.0000020	0.0000027	0.0000027	0.00	0.00	0.000002	0.0000020	0.0000025	0.0000020	0.00	**22.22**

Thorium	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Tin	**mg/L**	0.00020	0.0002	0.00020	0.00020	0.00020	0.00	0.00	0.0002	0.00020	0.00020	0.00020	0.00	0.00
Titanium	**mg/L**	0.00050	0.0005	0.00050	0.00050	0.00050	0.00	0.00	0.0005	0.00050	0.00050	0.00050	0.00	0.00
Tungsten	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	**mg/L**	0.0000020	0.000002	0.0000020	0.0000447	0.0000436	0.00	2.49	0.000002	0.0000020	0.0000317	0.0000335	0.00	5.52
Vanadium	**mg/L**	0.00020	0.0002	0.00020	0.00020	0.00020	0.00	0.00	0.0002	0.00020	0.00020	0.00020	0.00	0.00
Yttrium	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	**mg/L**	0.0001	0.0001	0.00064	0.00044	0.00042	**145.95**	4.65	0.0001	0.00024	0.00048	0.00053	**82.35**	9.90
Zirconium	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
WQ07- Dissolved Metals														
Aluminum	**mg/L**	0.0005	0.0005	0.00150	0.0063	0.00789	**100.00**	22.41	0.0005	0.00076	0.00258	0.00261	**41.27**	1.16
Antimony	**mg/L**	0.000020	0.000020	0.000020	0.00050	0.000033	0.00	***175.23***	0.00002	0.000020	0.000024	0.000021	0.00	13.33
Arsenic	**mg/L**	0.000020	0.000020	0.000020	0.00080	0.000801	0.00	0.12	0.00002	0.000020	0.000742	0.000759	0.00	2.27
Barium	**mg/L**	0.000020	0.000020	0.000020	0.0114	0.0112	0.00	1.77	0.00002	0.000020	0.0110	0.0109	0.00	0.91
Beryllium	**mg/L**	0.000010	0.000010	0.000010	0.00010	0.000010	0.00	**163.64**	0.00001	0.000010	0.000010	0.000010	0.00	0.00
Bismuth	**mg/L**	-	0.001	-	0.0010	-	-	-	-	-	-	-	-	-
Boron	**mg/L**	0.01	0.01	0.01	0.05	0.01	0.00	**133.33**	0.01	0.01	0.01	0.01	0.00	0.00
Cadmium	**mg/L**	0.0000050	0.0000050	0.0000050	0.000010	0.0000050	0.00	**66.67**	0.000005	0.0000050	0.0000050	0.0000050	0.00	0.00
Calcium (Dissolved)	**mg/L**	0.050	-	0.050	12.2	11.9	-	2.49	-	0.050	11.3	11.2	-	0.89
Calcium (SW6020B)	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Cesium	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	**mg/L**	0.0001	0.0001	0.00013	0.0010	0.00018	**26.09**	**138.98**	0.0001	0.00014	0.00016	0.00013	**33.33**	**20.69**
Cobalt	**mg/L**	0.0000050	0.0000050	0.0000050	0.00020	0.0000300	0.00	***147.83***	0.000005	0.0000050	0.0000173	0.0000161	0.00	7.19
Copper	**mg/L**	0.000050	0.000050	0.000050	0.00091	0.00119	0.00	26.67	0.00005	0.000050	0.00105	0.000811	0.00	25.69
Gallium	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	**mg/L**	0.001	0.001	0.0012	0.0050	0.0081	18.18	**47.33**	0.001	0.0010	0.0036	0.0046	0.00	**24.39**
Lanthanum	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	**mg/L**	0.000005	0.000005	0.0000108	0.00020	0.0000050	**73.42**	***190.24***	0.000005	0.0000051	0.0000064	0.0000050	1.98	**24.56**
Lithium	**mg/L**	0.0005	0.0005	0.00050	0.0020	0.00121	0.00	**49.22**	0.0005	0.00050	0.00111	0.00103	0.00	7.48
Magnesium (Dissolve	**mg/L**	0.050	-	0.050	2.20	2.31	-	4.88	-	0.050	2.02	2.00	-	1.00
Magnesium (SW6020	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	**mg/L**	0.000050	0.000050	0.000050	0.0010	0.000912	0.00	9.21	0.00005	0.000050	0.000298	0.000335	0.00	11.69
Mercury	**mg/L**	0.00001	0.00001	0.00001	0.00001	0.00001	0.00	0.00	0.00001	0.00001	0.00001	0.00001	0.00	0.00
Mercury	ng/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	**mg/L**	0.000050	0.000050	0.000050	0.0010	0.000192	0.00	***135.57***	0.00005	0.000050	0.000161	0.000167	0.00	3.66
Nickel	**mg/L**	0.000020	0.000020	0.000020	0.0010	0.000884	0.00	12.31	0.00002	0.000020	0.000716	0.000712	0.00	0.56
Niobium	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium (Dissolved	**mg/L**	0.050	-	0.050	1.25	1.22	-	2.43	-	0.050	1.35	1.28	-	5.32
Rhenium	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Rubidium	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	**mg/L**	0.000040	0.000040	0.000040	0.00010	0.000040	0.00	**85.71**	0.00004	0.000040	0.000045	0.000040	0.00	11.76
Silicon	**mg/L**	-	0.1	-	0.318	-	-	-	-	-	-	-	-	-
Silver	**mg/L**	0.0000050	0.0000050	0.0000050	0.000020	0.0000050	0.00	**120.00**	0.000005	0.0000050	0.0000050	0.0000050	0.00	0.00
Sodium (Dissolved)	**mg/L**	0.050	-	0.050	9.36	9.68	-	3.36	-	0.050	8.29	8.22	-	0.85
Strontium	**mg/L**	0.000050	0.000050	0.000050	0.0688	0.0693	0.00	0.72	0.00005	0.000050	0.0686	0.0684	0.00	0.29
Sulfur (SW6020B)	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-

Sulphur	**mg/L**	-	-	-	4.4	-	-	-	-	-	-	-	-	-
Tantalum	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Tellurium	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	**mg/L**	0.0000020	0.0000020	0.0000020	0.000010	0.0000020	0.00	**133.33**	0.000002	0.0000020	0.0000020	0.0000027	0.00	**29.79**
Thorium	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Tin	**mg/L**	0.00020	0.00020	0.00020	0.0050	0.00020	0.00	***184.62***	0.0002	0.00020	0.00020	0.00020	0.00	0.00
Titanium	**mg/L**	0.00050	0.00050	0.00050	0.0050	0.00050	0.00	**163.64**	0.0005	0.00050	0.00050	0.00050	0.00	0.00
Tungsten	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	**mg/L**	0.0000020	0.0000020	0.0000020	0.00010	0.0000461	0.00	73.79	0.0000021	0.0000020	0.0000345	0.0000356	4.88	3.14
Vanadium	**mg/L**	0.00020	0.00020	0.00020	0.0050	0.00020	0.00	***184.62***	0.0002	0.00020	0.00020	0.00020	0.00	0.00
Yttrium	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	**mg/L**	0.0001	0.0001	0.00045	0.0050	0.00056	**127.27**	***159.71***	0.0001	0.00037	0.00056	0.00051	**114.89**	9.35
Zirconium	**mg/L**	-	0.0001	-	0.00010	-	-	-	-	-	-	-	-	-
Potassium (SW6020B	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium (SW6020B)	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
WQ08- Radionuclides														
Radium-226	**Bq/l**	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00	0.005	0.0050	0.0050	0.0050	0.00	0.00
% Exceedance*							0%	1%					0%	1%

Footnotes:

RPD = Relative Percent Difference; MDL: Method Detection Limit

All value "<DL" have been replaced by "DL".

* Although usually consistent, in the rare event that there were two different RDLs for different sampling events, the lower one was used. This may cause artifical 10x MDL exceedances.

Bold values correspond to a RPD higher than 20% and for which concentrations of parent and duplicate samples are within 10x the MDL.

Grey shaded cells correspond to a RPD higher than 20% and for which concentrations of parent and duplicate samples are above 10x the MDL.

Bold & Italic values correspond to a RPD higher than 20% and for which one of the result is within 10X the MDL and the other one exceeds 10x the MDL.

MEL-14	Sample date	MDMER MAX	MDMER MAX	MEL-14 MAX	MEL-14 MAX	Average						6/14/2025	6/16/2025	6/23/2025	6/30/2025	7/7/2025	7/14/2025	7/21/2025	7/28/2025	7/29/2025	8/4/2025	8/11/2025	8/18/2025	8/25/2025	9/1/2025	9/8/2025	9/15/2025	9/22/2025	9/28/2025	10/6/2025
Parameter	Unit	GRAB	MEAN	GRAB	MEAN	2020	2021	2022	2023	2024	2025																			
WQ01- Field Measured																														
Temperature	°C					10.79	9.59	12.7	11.93	9.36	11.78	9.90	9.00	12.10	16.70	15.50	13.30	12.40	13.80	10.90	14.40	9.90	14.60	13.60	10.80	8.70	11.20	11.40	8.10	7.58
pH	pH units	6.0 - 9.5	6.0 - 9.5			7.1	7.24	7.29	7.26	7.44	7.52	7.20	7.47	7.64	7.28	7.56	7.09	7.32	8.07	7.68	7.51	7.09	8.24	7.66	7.37	7.70	7.62	7.41	8.01	6.99
Conductivity	uS/cm					3506	2644.62	2451	2,370.17	2,361.33	1668.92	1134.00	1180.00	1181.00	1193.00	1547.00	1453.00	1451.00	365.40	1291.00	1915.00	1455.00	1661.00	1726.00	1195.00	2355.00	2369.00	2485.00	2532.00	3221.00
Dissolved oxygen	mg/L					11.91	11.13	10.64	10.26	15.96	49.88	14.54	13.09	9.83	10.74	7.98	8.30	10.15	10.10	12.31	7.53	10.00	10.41	11.37	8.25	12.23	14.55	9.59	751.30	15.53
Dissolved oxygen	%					93.87	92.08	96.5	97.17	88.47	100.91	129.00	113.60	91.70	110.80	80.40	79.80	95.50	97.60	112.00	74.10	88.90	103.00	110.90	74.90	105.80	133.50	88.40	101.60	125.70
WQ02- Conventional Parameters																														
pH	pH units	6.0 - 9.5	6.0 - 9.5	6.0 - 9.5	6.0 - 9.5	7.47	7.62	7.61	7.55	7.58	7.68	7.35	7.38	7.55	7.55	7.70	7.65	7.75	7.84	7.73	7.82	7.69	7.84	7.63	7.67	7.78	7.54	7.91	7.81	7.74
Dissolved Oxygen	mg/L					10.13	10.21	-	-	10.21	10.20	9.84	10.10	10.90	9.92	9.54	9.86	9.16	10.40	12.00	10.90	9.78	9.66	9.62	10.10	11.10	10.20	11.00	8.86	10.90
Turbidity	NTU					0.9	0.45	0.6	0.43	0.81	0.90	0.50	1.00	0.90	0.80	0.80	1.00	0.90	1.10	0.90	1.00	0.70	1.50	0.60	0.90	0.60	1.10	0.90	0.50	1.40
Conductivity	umhos/cm					3432	2605.88	2430	2,341.67	2,453.75	1735.26	1190.00	1190.00	1200.00	1210.00	1300.00	1510.00	1480.00	1280.00	1300.00	1960.00	1430.00	1660.00	1700.00	1720.00	2380.00	2390.00	2450.00	2440.00	3180.00
Hardness, as CaCO3	mg/L					782.61	571.65	490	448.92	459.19	368.89	249.00	241.00	244.00	266.00	285.00	305.00	283.00	262.00	280.00	412.00	345.00	335.00	346.00	370.00	450.00	502.00	573.00	565.00	696.00
Total alkalinity, as Ca	mg/L					70.28	67.18	61	63.92	71.81	67.53	30.00	31.00	45.00	42.00	64.00	68.00	67.00	72.00	71.00	74.00	69.00	69.00	67.00	70.00	87.00	87.00	87.00	83.00	100.00
Carbonate, as CaCO3	mg/L					0.5	0.5	0.5	0.50	0.50	0.50	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bicarbonate, as CaC	mg/L					70.04	66.88	61	63.67	71.63	67.16	30.00	31.00	45.00	42.00	63.00	68.00	67.00	71.00	71.00	74.00	68.00	68.00	66.00	70.00	87.00	87.00	86.00	82.00	100.00
TDS	mg/L					2075.6	1607.94	1423	1,386.67	1,583.44	1071.58	735.00	740.00	655.00	735.00	785.00	895.00	960.00	805.00	850.00	1250.00	915.00	955.00	1050.00	1050.00	1390.00	1470.00	1490.00	1630.00	2000.00
TDS, calculated	mg/L			4500	3500	-	1470	1321	1,228.33	1,379.38	986.84	640.00	640.00	670.00	660.00	740.00	820.00	820.00	710.00	720.00	1100.00	780.00	930.00	950.00	970.00	1400.00	1400.00	1400.00	1500.00	1900.00
TSS	mg/L	30	15	30	15	4.96	3.29	3	3.46	3.81	4.32	3.00	3.00	3.00	4.00	4.00	4.00	5.00	4.00	4.00	4.00	5.00	8.00	4.00	3.00	3.00	5.00	6.00	4.00	6.00
Total organic carbon	mg/L					10.1	8.42	8.4	7.89	8.49	6.56	3.70	3.70	4.20	4.50	5.00	5.30	5.40	6.00	5.80	6.30	6.20	7.50	7.10	7.10	8.20	9.00	9.30	9.30	11.00
Dissolved organic ca	mg/L					9.47	7.71	7.8	7.38	7.76	5.98	3.30	3.20	3.70	4.00	4.40	5.00	4.90	5.50	5.30	6.30	5.50	6.40	6.40	6.70	7.70	8.40	8.50	8.50	10.00
WQ03- Major Ions																														
Chloride	mg/L					886.8	635.29	568	513.33	537.50	374.74	240.00	240.00	240.00	250.00	270.00	300.00	310.00	250.00	260.00	430.00	290.00	360.00	370.00	380.00	520.00	530.00	570.00	590.00	720.00
Cyanide	mg/L	1	0.5	1	0.5	0.0045	0.0025	0.00146	0	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cyanide (free)	mg/L					0.0084	0.0029	0.0019	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cyanide (WAD)	mg/L					0.0023	0.0012	0.00112	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.00050	0.00	0.00	0.00	0.00	0.00
Silica	mg/L					2.49	0.63	0.377	0.23	1.03	0.49	1.20	1.10	< 0.050	0.05	0.43	0.54	0.36	0.31	0.45	0.65	0.25	0.26	0.30	0.41	0.53	0.20	0.14	0.40	1.70
Sulfate	mg/L					192.4	224.12	221	215.83	270.00	198.42	140.00	140.00	140.00	140.00	150.00	170.00	160.00	140.00	140.00	230.00	150.00	190.00	200.00	190.00	270.00	270.00	260.00	290.00	400.00
WQ04- Nutrients and Chlorophyll a																														
Ammonia Nitrogen (	mg/L			18	14	3.48	0.86	0.332	0.32	0.91	0.19	< 0.05	< 0.05	0.19	0.11	0.38	0.36	0.11	0.10	0.15	0.48	< 0.050	0.11	0.14	0.05	0.86	0.31	0.11	0.059	1.8
Un-Ionized Ammoni	mg/L	1	0.5			-	-	-	0.00254	0.00	0.00	< 0.0004	< 0.0004	0.00	0.00	0.00	0.00	0.00	< 0.0004	0.00	0.00	< 0.0004	0.00	0.00	< 0.0004	0.01	0.00	0.00	0.0010	0.0086
Nitrate (as N)	mg/L					16.35	13.89	9.03	7.04	8.12	6.68	6.59	7.20	6.47	6.02	5.48	7.08	6.36	4.69	4.79	8.67	4.85	5.95	5.70	5.38	8.73	10.10	9.47	10.0	12.8
Nitrite (as N)	mg/L					0.27	0.26	0.221	0.22	0.19	0.12	0.10	0.11	0.12	0.13	0.16	0.23	0.09	0.08	0.07	0.21	0.06	0.08	0.10	0.05	0.21	0.18	0.07	0.039	0.215
Nitrate + nitrite (as N	mg/L					16.61	14.16	-	-	8.32	6.80	6.69	7.31	6.59	6.15	5.64	7.30	6.45	4.77	4.87	8.88	4.90	6.03	5.80	5.43	8.94	10.30	9.53	10.1	13.1
Total Kjeldahl nitrog	mg/L					4.35	1.37	0.98	0.89	1.79	0.66	0.71	0.76	0.85	0.45	0.88	0.58	0.79	0.46	0.91	0.55	0.40	0.34	0.58	0.47	0.75	0.98	0.70	0.98	3.2
Total phosphorus	mg/L					0.03	0.03	0.024	0.03	0.03	0.02	< 0.02	0.02	< 0.020	0.02	0.02	0.03	0.03	0.03	0.03	0.03	< 0.020	0.04	0.03	0.03	< 0.020	0.05	0.03	< 0.020	0.032
Orthophosphate (P)	mg/L					0.01	0.01	0.006	0.01	0.01	0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.012	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.01	0.01	< 0.010	< 0.010
WQ06- Total Metals																														
Aluminum	mg/L			3	2	0.56161	0.38812	0.373	0.36125	0.48438	0.71611	0.48	0.45	0.53	0.85	0.63	0.61	0.74	0.69	0.54	0.61	0.81	1.26	1.04	0.46	0.55	0.72	1.09	0.72	0.81
Antimony	mg/L					0.00089	0.00078	0.00082	0.00076	0.00077	0.00117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arsenic	mg/L	0.6	0.3	0.6	0.3	0.01532	0.00462	0.00503	0.00485	0.00863	0.00916	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Barium	mg/L					0.11308	0.06804	0.0555	0.04656	0.04249	0.03467	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.03	0.04	0.04	0.05	0.05	0.05	0.05
Beryllium	mg/L					0.00011	0.00006	0.00006	0.00006	0.00006	0.00005	< 0.0001	< 0.0001	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00020
Boron	mg/L					0.37322	0.31453	0.293	0.24258	0.19406	0.16374	0.11	0.11	0.10	0.12	0.15	0.17	0.15	0.13	0.12	0.17	0.16	0.18	0.14	0.17	0.20	0.22	0.24	0.22	0.25
Cadmium	mg/L					0.00003	0.00002	0.000012	0.00001	0.00002	0.00001	< 0.00001	< 0.00001	< 0.000010	< 0.000010	0.00	0.00	< 0.000010	0.00	< 0.000010	< 0.000010	< 0.000010	< 0.000010	< 0.000010	< 0.000010	< 0.000010	0.00	< 0.000010	< 0.000010	< 0.000020
Chromium	mg/L					0.00111	0.00065	0.0006	0.00058	0.00063	0.00050	< 0.001	< 0.001	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0020
Cobalt	mg/L					0.00177	0.00138	0.00094	0.00102	0.00140	0.00095	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Copper	mg/L	0.6	0.3	0.4	0.2	0.00193	0.00197	0.00253	0.00241	0.00219	0.00219	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Iron	mg/L					0.07448	0.02859	0.019	0.02550	0.02844	0.03168	0.03	0.02	0.03	0.02	0.03	0.04	0.03	0.03	0.03	0.03	0.02	0.04	0.03	0.05	0.03	0.05	0.05	0.02	0.06
Lead	mg/L	0.2	0.1	0.2	0.1	0.00027	0.00015	0.00011	0.00012	0.00013	0.00010	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00040
Lithium	mg/L					0.0925	0.04179	0.0316	0.02932	0.02536	0.01724	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03
Manganese	mg/L					0.50993	0.16481	0.0450	0.04464	0.07463	0.04198	0.06	0.05	0.03	0.02	0.05	0.07	0.04	0.03	0.04	0.03	0.02	0.02	0.02	0.04	0.05	0.06	0.03	0.03	0.12
Mercury	mg/L					0.00001	0.00001	0.000005	0.00001	0.00002	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	mg/L					0.00364	0.00487	0.0055	0.00521	0.00513	0.00492	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01
Nickel	mg/L	1	0.5	1	0.5	0.0063	0.00583	0.0045	0.00457	0.00642	0.00442	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
Selenium	mg/L					0.00043	0.00095	0.00044	0.00070	0.00073	0.00060	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Silver	mg/L					0.00002	0.00001	0.000011	0.00001	0.00001	0.00001	< 0.00002	< 0.00002	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000040
Strontium	mg/L					3.88348	2.08176	1.68	1.48525	1.36525	0.97089	0.71	0.69	0.73	0.72	0.86	0.85	0.71	0.76	0.74	1.09	0.94	0.96	0.87	1.07	1.04	1.25	1.41	1.46	1.58
Thallium	mg/L					0.00003	0.00003	0.000030	0.00002	0.00002	0.00001	< 0.00001	< 0.00001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.000010	< 0.000010	< 0.000010	0.00	0.00	< 0.000020
Tin	mg/L					0.00554	0.00324	0.0028	0.00292	0.00313	0.00250	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010
Titanium	mg/L					0.00554	0.00324	0.0028	0.00292	0.00313	0.00250	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010
Uranium	mg/L					0.00115	0.0013	0.00128	0.00121	0.00214	0.00202	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Vanadium	mg/L					0.00554	0.00324	0.0028	0.00292	0.00313	0.00250	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010
Zinc	mg/L	1	0.5	0.8	0.4	0.00702	0.00546	0.0032	0.00292	0.00418	0.00303	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.01	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010
WQ07- Dissolved Metals																														
Aluminum	mg/L			3	2	0.12803	0.10018	0.129	0.09930	0.14203	0.1829	0.08	0.09	0.20	0.24	0.20	0.16	0.09	0.20	0.17	0.25	0.15	0.41	0.27	0.11	0.18	0.16	0.16	0.18	0.18
Antimony	mg/L					0.00076	0.00073	0.00084	0.00080	0.00088	0.0012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arsenic	mg/L	0.6	0.3	0.6	0.3	0.01281	0.00364	0.00406	0.00383	0.00731	0.0071	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.01	0.01	0.00	0.01
Barium	mg/L					0.11264	0.06864	0.0550	0.04928	0.04641	0.0344	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.04	0.03	0.04	0.04	0.04	0.05	0.04	0.05	0.04	0.05
Beryllium	mg/L					0.0001	0.00007	0.00006	0.00006	0.00006	0.0001	< 0.0001	< 0.0001	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00020
Boron	mg/L					0.37391	0.31759	0.303	0.24917	0.22344	0.1600	0.11	0.12	0.11	0.11	0.14	0.15	0.16	0.13	0.14	0.19	0.13	0.16	0.14	0.16	0.21	0.22	0.24	0.20	0.24
Cadmium	mg/L					0.00003	0.00002	0.000013	0.00001	0.00002	0.0000	< 0.00001	< 0.00001	< 0.000010	< 0.000010	0.00	< 0.000010	< 0.000010	< 0.000010	0.00	0.00	< 0.000010	< 0.000010	< 0.000010	< 0.000010	0.00	< 0.000010	< 0.000010	0.00	0.00
Calcium (Dissolved)	mg/L					-	158.9	131.7	126.49167	132.49375	95.8737	65.70	66.10	68.30	69.10	73.50	80.90	74.70	71.40	78.00	107.00	82.60	86.40	93.90	93.00	137.00	125.00	141.00	130.00	178.00
Chromium	mg/L					0.00104	0.00071	0.0006	0.00058	0.00063	0.0005	< 0.001	< 0.001	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0020
Cobalt	mg/L					0.00174	0.00135	0.00092	0.00106	0.00152	0.0011	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Copper	mg/L	0.6	0.3	0.4	0.2	0.00169	0.00183	0.00247	0.00266	0.00237	0.0021	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Iron	mg/L					0.04495	0.01064	0.0080	0.00858	0.00747	0.0080	0.01	0.01	< 0.0050	0.01	< 0.0050	0.01	< 0.0050	0.01	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.01	0.01	0.01	< 0.0050	< 0.0050	< 0.010
Lead	mg/L	0.2	0.1	0.2	0.1	0.00021	0.00016	0.00011	0.00012	0.00016	0.0001	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00040
Lithium	mg/L					0.0949	0.04114	0.0315	0.03013	0.02828	0.0171	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Magnesium (Dissolv	mg/L					-	43.94118	38.7	37.50000	42.69375	30.2053	18.60	19.10	18.10	19.60	21.50	23.90	22.20	18.80	20.20	32.20	23.10	27.80	32.80	29.10	44.60	43.70	48.30	50.30	60.00
Manganese	mg/L					0.50258	0.16156	0.0437	0.04363	0.08086	0.0376	0.05	0.05	0.02	0.01	0.05	0.07	0.03	0.02	0.03	0.02	0.02	0.02	0.02	0.03	0.06	0.05	0.03	0.02	0.12
Mercury	mg/L					0.00001	0.00001	0.000005	0.00001	0.00002	0.0000	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	mg/L					0.00366	0.00488	0.0055	0.00541	0.00566	0.0050	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
Nickel	mg/L	1	0.5	1	0.5	0.00612	0.00581	0.0045	0.00453	0.00704	0.0043	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.01
Potassium (Dissolve	mg/L					-	21.63529	20.6	20.75833	20.91333	15.7842	10.70	10.70	10.40	11.20	12.20	13.20	12.90	11.30	11.60	19.00	12.40	14.80	17.40	15.90	23.60	21.20	22.50	23.60	25.30
Selenium	mg/L					0.00041	0.00095	0.00044	0.00074	0.00080	0.0007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Silver	mg/L					0.00002	0.00001	0.000011	0.00001	0.00001	0.0000	< 0.00002	< 0.00002	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020	0.00	< 0.000020	< 0.000020	< 0.000020	< 0.000040
Sodium (Dissolved)	mg/L					-	273.64706	253	246.91667	256.56250	180.9474	112.00	113.00	104.00	115.00	136.00	155.00	151.00	124.00	123.00	201.00	132.00	155.00	156.00	172.00	278.00	264.00	296.00	314.00	337.00
Strontium	mg/L					3.93913	2.08882	1.67	1.58750	1.49406	0.9621	0.67	0.68	0.74	0.79	0.78	0.77	0.74	0.73	0.73	1.17	0.82	0.94	0.96	1.04	1.27	1.19	1.26	1.41	1.59
Thallium	mg/L					0.00003	0.00003	0.00003	0.00002	0.00002	0.0000	< 0.00001	< 0.00001	< 0.000010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.000010	0.00	0.00	< 0.000010	0.00	< 0.000010	0.00	0.00	< 0.000020
Tin	mg/L					0.00522	0.00353	0.0028	0.00292	0.00313	0.0025	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010
Titanium	mg/L					0.00522	0.00353	0.0028	0.00292	0.00313	0.0025	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010
Uranium	mg/L					0.00107	0.00121	0.00121	0.00117	0.00227	0.0018	< 0.0001	< 0.0001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Vanadium	mg/L					0.00522	0.00353	0.0028	0.00292	0.00313	0.0025	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010
Zinc	mg/L	1	0.5	0.8	0.4	0.00643	0.00594	0.0028	0.00315	0.00336	0.0025	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010
WQ08- Radionuclides																														
Radium-226	Bq/l	1.11	0.37			0.06	0.01	0.0059	0	0.00	0.0025	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.01	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.01
WQ09- Toxicity																														
Daphnia 48 h static a	%					-	-	-	-		-	-	>100%	-	-	>100%	-	-	-	-	>100%	-	-	-	>100%	-	-	-	-	>100%
Daphnia 48 h Static A	%					-	-	-	-		-	-	>100%	-	-	>100%	-	-	-	-	>100%	-	-	-	>100%	-	-	-	-	>100%
LC50 (96h) - Rainbov	%					-	-	-	-		-	-	>100%	-	-	>100%	-	-	-	-	>100%	-	-	-	>100%	-	-	-	-	>100%
Lemna Minor Bioma	%					-	-	-	-		-	-	>97.0%	-	-	>97.0%	-	-	-	-	-	-	-	-	-	-	-	-	-	>97.0%
Lemna Minor Frond	%					-	-	-	-		-	-	>97.0%	-	-	>97.0%	-	-	-	-	-	-	-	-	-	-	-	-	-	>97.0%
WQ10- Volatile Organics																														
Benzene	mg/L					0.0001	0.0001	0.00010	0.00010	0.00010	0.00010	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Ethylbenzene	mg/L					0.0001	0.0001	0.00010	0.00010	0.00010	0.00010	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Toluene	mg/L					0.00013	0.0001	0.00012	0.00025	0.00010	0.00010	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Xylenes	mg/L					0.0002	0.0002	0.00023	0.00020	0.00020	0.00020	< 0.0004	< 0.0004	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040
m,p-Xylenes	mg/L					0.0002	0.0002	0.00023	0.00020	0.00020	0.00020	< 0.0004	< 0.0004	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040
o-Xylene	mg/L					0.0001	0.0001	0.00010	0.00010	0.00010	0.00010	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
F1 (C6-C10)-BTEX	mg/L					0.0125	0.0125	0.0125	0.01250	0.01250	0.01250	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
F1 (C6-C10)	mg/L					0.0125	0.0125	0.0125	0.01250	0.01250	0.01250	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
F2 (C10-C16)	mg/L					0.05	0.05	0.05	0.05000	0.04781	0.04500	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09
F3 (C16-C34)	mg/L					0.1	0.1	0.1	0.10000	0.10000	0.10000	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
F4 (C34-C50)	mg/L					0.1	0.1	0.1	0.10000	0.10000	0.10000	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2

		Sample date	7/28/2025						9/1/2025						10/6/2025					
		Sample type	Lab Blank	Field Blank	Original	Duplicate			Lab Blank	Field Blank	Original	Duplicate			Lab Blank	Field Blank	Original	Duplicate		
		LAB_SDG	C592520	C592520	C592520	C592520	C592520	C592520	C5A9254	C5A9254	C5A9254	C5A9254	C5A9254	C5A9254	C5C7149	C5C7149	C5C7149	C5C7149	C5C7149	C5C7149
Parameter	**Unit**	**MDL**					**RPD (LB/FB)**	**RPD (N/FD)**					**RPD (LB/FB)**	**RPD (N/FD)**					**RPD (LB/FB)**	**RPD (N/FD)**
WQ02- Conventional Parameters																				
pH	**pH units**	-	-	5.88	7.84	7.90	-	0.76	-	5.81	7.67	7.68	-	0.13	-	6.12	7.74	7.82	-	1.03
Dissolved Oxygen	%	-	-	-	-	-	-	-	-	0	0	0	-	-	-	-	125.7	125.7	-	0.00
Dissolved Oxygen	**mg/L**	-	-	10.8	10.4	10.8	-	3.77	-	9.99	10.1	10.2	-	0.99	-	11.3	10.9	11.1	-	1.82
Turbidity	**NTU**	0.1	0.1	0.1	1.1	1.2	0.00	8.70	0.1	0.1	0.9	1.0	0.00	10.53	0.1	0.1	1.4	1.3	0.00	7.41
Conductivity	**ms/cm**	0.002	0.002	0.002	1.28	1.28	0.00	0.00	0.002	0.002	1.72	1.72	0.00	0.00	0.002	0.012	3.18	3.17	**142.86**	0.31
Conductivity	**umhos/cm**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardness, as CaCO3	**mg/L**	0.50	-	0.50	262	265	-	1.14	-	0.50	370	358	-	3.30	-	0.50	696	678	-	2.62
Hardness, as CaCO3-	**mg/L**	0.50	-	0.50	256	260	-	1.55	-	0.50	352	362	-	2.80	-	0.50	691	689	-	0.29
Total alkalinity, as Ca	**mg/L**	1.0	1	1.0	72	74	0.00	2.74	1	1.0	70	71	0.00	1.42	1	1.3	100	100	**26.09**	0.00
Carbonate, as CaCO3	**mg/L**	1.0	-	1.0	1.0	1.0	-	0.00	-	1.0	1.0	1.0	-	0.00	-	1.0	1.0	1.0	-	0.00
Bicarbonate, as CaCO	**mg/L**	1.0	-	1.0	71	73	-	2.78	-	1.0	70	70	-	0.00	-	1.3	100	100	-	0.00
TDS	**mg/L**	10	10	15	805	795	**40.00**	1.25	10	10	1050	1060	0.00	0.95	10	10	2000	1980	0.00	1.01
TDS, calculated	**mg/L**	1.0	-	1.0	710	720	-	1.40	-	1.0	970	970	-	0.00	-	5.0	1900	1900	-	0.00
TSS	**mg/L**	1	1	1	4	6	0.00	**40.00**	1	1	3	3	0.00	0.00	1	1	6	5	0.00	18.18
Total organic carbon	**mg/L**	0.40	0.4	0.40	6.0	5.8	0.00	3.39	0.4	0.40	7.1	7.3	0.00	2.78	0.4	0.40	11	11	0.00	0.00
Dissolved organic car	**mg/L**	0.40	0.4	0.40	5.5	5.5	0.00	0.00	0.4	0.40	6.7	6.9	0.00	2.94	0.4	0.40	10	10	0.00	0.00
Salinity	-	2	-	2	2	2	-	0.00	-	2	2	2	-	0.00	-	2	2	2	-	0.00
Sodium Adsorption R	-	-	-	NC	3.7	3.8	-	2.67	-	NC	4.1	4.1	-	0.00	-	0.33	5.9	6.0	-	1.68
WQ03- Major Ions																				
Chloride	**mg/L**	1.0	1	1.0	250	250	0.00	0.00	1	1.0	380	380	0.00	0.00	1	2.0	720	740	**66.67**	2.74
Cyanide	**mg/L**	0.00050	0.0005	0.00050	0.00071	0.00067	0.00	5.80	0.0005	0.00050	0.00102	0.00103	0.00	0.98	0.0005	0.00050	0.00264	0.00283	0.00	6.95
Cyanide (free)	**mg/L**	0.00050	0.0005	0.00050	0.00072	0.00085	0.00	16.56	0.0005	0.00050	0.00052	0.00092	0.00	**55.56**	0.0005	0.00050	0.00199	0.00177	0.00	11.70
Cyanide (WAD)	**mg/L**	0.00050	0.0005	0.00050	0.00050	0.00052	0.00	3.92	0.0005	0.00050	0.00050	0.00074	0.00	**38.71**	0.0005	0.00050	0.0019	0.0021	0.00	10.00
Fluoride	**mg/L**	0.10	0.1	0.10	0.10	0.10	0.00	0.00	0.1	0.10	0.10	0.10	0.00	0.00	0.1	0.10	0.10	0.10	0.00	0.00
Silica	**mg/L**	0.050	0.05	0.050	0.31	0.30	0.00	3.28	0.05	0.050	0.41	0.41	0.00	0.00	0.05	0.050	1.7	1.6	0.00	6.06
Sulfate	**mg/L**	0.50	0.5	0.50	140	140	0.00	0.00	0.5	0.50	190	190	0.00	0.00	0.5	0.50	400	400	0.00	0.00
WQ04- Nutrients and Chlorophyll a																				
Ammonia Nitrogen (a	**mg/L**	0.050	0.05	0.050	0.099	0.088	0.00	11.76	0.05	0.050	0.054	0.053	0.00	1.87	0.05	0.050	1.8	1.8	0.00	0.00
Un-Ionized Ammonia	**mg/L**	0.0004	-	0.0004	0.0004	0.0004	-	0.00		0.0004	0.0004	0.0004	-	0.00		-	0.0086	0.0077	-	11.04
Nitrate (as N)	**mg/L**	0.10	0.1	0.10	4.69	4.72	0.00	0.64	0.1	0.10	5.38	5.40	0.00	0.37	0.1	0.10	12.8	12.8	0.00	0.00
Nitrite (as N)	**mg/L**	0.010	0.01	0.010	0.076	0.073	0.00	4.03	0.01	0.010	0.046	0.047	0.00	2.15	0.01	0.010	0.215	0.213	0.00	0.93
Nitrate + nitrite (as N	**mg/L**	0.10	-	0.10	4.77	4.79	-	0.42		0.10	5.43	5.45	-	0.37		0.10	13.1	13.0	-	0.77
Total Kjeldahl nitroge	**mg/L**	0.10	0.1	0.10	0.46	0.51	0.00	10.31	0.1	0.10	0.47	0.49	0.00	4.17	0.1	0.10	3.2	3.4	0.00	6.06
Biochemical Oxygen	**mg/L**	2	2	2	2	4	0.00	**66.67**	2	2	2	2	0.00	0.00	2	2	2	2	0.00	0.00
Total phosphorus	**mg/L**	0.020	0.02	0.020	0.029	0.036	0.00	21.54	0.02	0.020	0.025	0.020	0.00	**22.22**	0.02	0.020	0.032	0.024	0.00	**28.57**
Orthophosphate (P)	**mg/L**	0.010	0.01	0.010	0.010	0.010	0.00	0.00	0.01	0.010	0.010	0.010	0.00	0.00	0.01	0.010	0.010	0.010	0.00	0.00
WQ06- Total Metals																				
Aluminum	**mg/L**	0.0030	0.003	0.0030	0.690	0.661	0.00	4.29	0.003	0.0030	0.460	0.453	0.00	1.53	0.003	0.0030	0.814	0.834	0.00	2.43
Antimony	**mg/L**	0.00050	0.0005	0.00050	0.00113	0.00102	0.00	10.23	0.0005	0.00050	0.00118	0.00113	0.00	4.33	0.0005	0.00050	0.0016	0.0016	0.00	0.00
Arsenic	**mg/L**	0.00010	0.0001	0.00010	0.0118	0.0117	0.00	0.85	0.0001	0.00010	0.00717	0.00685	0.00	4.56	0.0001	0.00010	0.00962	0.00971	0.00	0.93
Barium	**mg/L**	0.0010	0.001	0.0010	0.0298	0.0283	0.00	5.16	0.001	0.0010	0.0394	0.0379	0.00	3.88	0.001	0.0010	0.0534	0.0524	0.00	1.89
Beryllium	**mg/L**	0.00010	0.0001	0.00010	0.00010	0.00010	0.00	0.00	0.0001	0.00010	0.00010	0.00010	0.00	0.00	0.0001	0.00010	0.00020	0.00020	0.00	0.00
Bismuth	**mg/L**	-	0.0010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	**mg/L**	0.050	0.05	0.050	0.133	0.134	0.00	0.75	0.05	0.050	0.170	0.153	0.00	10.53	0.05	0.050	0.25	0.26	0.00	3.92
Cadmium	**mg/L**	0.000010	0.00001	0.000010	0.000016	0.000010	0.00	**46.15**	0.00001	0.000010	0.000010	0.000010	0.00	0.00	0.00001	0.000010	0.000020	0.000020	0.00	0.00
Calcium (total)	**mg/L**	0.050	-	0.050	72.7	73.2	-	0.69	-	0.050	97.4	94.2	-	3.34	-	0.050	179	173	-	3.41
Chromium	**mg/L**	0.0010	0.001	0.0010	0.0010	0.0010	0.00	0.00	0.001	0.0010	0.0010	0.0010	0.00	0.00	0.001	0.0010	0.0020	0.0020	0.00	0.00
Cobalt	**mg/L**	0.00020	0.0002	0.00020	0.00085	0.00085	0.00	0.00	0.0002	0.00020	0.00064	0.00060	0.00	6.45	0.0002	0.00020	0.00145	0.00141	0.00	2.80
Copper	**mg/L**	0.00050	0.0005	0.00050	0.00210	0.00228	0.00	8.22	0.0005	0.00050	0.00226	0.00219	0.00	3.15	0.0005	0.00050	0.0026	0.0026	0.00	0.00
Iron	**mg/L**	0.010	0.01	0.010	0.029	0.034	0.00	15.87	0.01	0.010	0.045	0.039	0.00	14.29	0.01	0.010	0.060	0.058	0.00	3.39
Lanthanum	**mg/L**	-	0.00020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	**mg/L**	0.00020	0.0002	0.00020	0.00020	0.00020	0.00	0.00	0.0002	0.00020	0.00020	0.00020	0.00	0.00	0.0002	0.00020	0.00040	0.00040	0.00	0.00
Lithium	**mg/L**	0.0020	0.002	0.0020	0.0148	0.0136	0.00	8.45	0.002	0.0020	0.0214	0.0192	0.00	10.84	0.002	0.0020	0.0256	0.0259	0.00	1.17
Magnesium (total)	**mg/L**	0.050	-	0.050	19.6	19.8	-	1.02	-	0.050	30.8	29.7	-	3.64	-	0.050	60.7	59.7	-	1.66
Manganese	**mg/L**	0.0010	0.001	0.0010	0.0281	0.0284	0.00	1.06	0.001	0.0010	0.0358	0.0337	0.00	6.04	0.001	0.0010	0.118	0.119	0.00	0.84
Mercury	**mg/L**	0.00001	0.00001	0.00001	0.00001	0.00001	0.00	0.00	0.00001	0.00001	0.00001	0.00001	0.00	0.00	0.00001	0.00001	0.00001	0.00001	0.00	0.00
Molybdenum	**mg/L**	0.0010	0.001	0.0010	0.0049	0.0047	0.00	4.17	0.001	0.0010	0.0050	0.0046	0.00	8.33	0.001	0.0010	0.0060	0.0061	0.00	1.65
Nickel	**mg/L**	0.0010	0.001	0.0010	0.0030	0.0030	0.00	0.00	0.001	0.0010	0.0038	0.0036	0.00	5.41	0.001	0.0010	0.0092	0.0090	0.00	2.20
Potassium (total)	**mg/L**	0.050	-	0.050	11.7	11.6	-	0.86	-	0.050	16.1	15.4	-	4.44	-	0.050	25.0	25.0	-	0.00

Selenium	mg/L	0.00010	0.0001	0.00010	0.00053	0.00048	0.00	9.90	0.0001	0.00010	0.00049	0.00045	0.00	8.51	0.0001	0.00010	0.00098	0.00097	0.00	1.03
Silicon	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	0.000020	0.00002	0.000020	0.000020	0.000020	0.00	0.00	0.00002	0.000020	0.000020	0.000020	0.00	0.00	0.00002	0.000020	0.000040	0.000040	0.00	0.00
Sodium (total)	mg/L	0.050	-	0.050	124	127	-	2.39	-	0.050	177	170	-	4.03	-	0.050	345	334	-	3.24
Strontium	mg/L	0.0010	0.001	0.0010	0.756	0.734	0.00	2.95	0.001	0.0010	1.07	1.01	0.00	5.77	0.001	0.0010	1.58	1.58	0.00	0.00
Thallium	mg/L	0.000010	0.00001	0.000010	0.000013	0.000011	0.00	16.67	0.00001	0.000010	0.000010	0.000010	0.00	0.00	0.00001	0.000010	0.000020	0.000020	0.00	0.00
Tin	mg/L	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00	0.005	0.0050	0.0050	0.0050	0.00	0.00	0.005	0.0050	0.010	0.010	0.00	0.00
Titanium	mg/L	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00	0.005	0.0050	0.0050	0.0050	0.00	0.00	0.005	0.0050	0.010	0.010	0.00	0.00
Uranium	mg/L	0.00010	0.0001	0.00010	0.00161	0.00170	0.00	5.44	0.0001	0.00010	0.00145	0.00136	0.00	6.41	0.0001	0.00010	0.00587	0.00578	0.00	1.55
Vanadium	mg/L	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00	0.005	0.0050	0.0050	0.0050	0.00	0.00	0.005	0.0050	0.010	0.010	0.00	0.00
Zinc	mg/L	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00	0.005	0.0050	0.0050	0.0050	0.00	0.00	0.005	0.0050	0.010	0.010	0.00	0.00
Zirconium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WQ07- Dissolved Metals																				
Aluminum	mg/L	0.0030	0.003	0.0030	0.203	0.196	0.00	3.51	0.003	0.0030	0.106	0.119	0.00	11.56	0.003	0.0030	0.178	0.164	0.00	8.19
Antimony	mg/L	0.00050	0.0005	0.00050	0.00104	0.00107	0.00	2.84	0.0005	0.00050	0.00118	0.00115	0.00	2.58	0.0005	0.00050	0.0016	0.0016	0.00	0.00
Arsenic	mg/L	0.00010	0.0001	0.00010	0.00662	0.00667	0.00	0.75	0.0001	0.00010	0.00507	0.00508	0.00	0.20	0.0001	0.00010	0.00547	0.00534	0.00	2.41
Barium	mg/L	0.0010	0.001	0.0010	0.0291	0.0293	0.00	0.68	0.001	0.0010	0.0387	0.0384	0.00	0.78	0.001	0.0010	0.0522	0.0530	0.00	1.52
Beryllium	mg/L	0.00010	0.0001	0.00010	0.00010	0.00010	0.00	0.00	0.0001	0.00010	0.00010	0.00010	0.00	0.00	0.0001	0.00010	0.00020	0.00020	0.00	0.00
Bismuth	mg/L	-	0.0010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	mg/L	0.050	0.05	0.050	0.133	0.131	0.00	1.52	0.05	0.050	0.162	0.175	0.00	7.72	0.05	0.050	0.24	0.24	0.00	0.00
Cadmium	mg/L	0.000010	0.00001	0.000010	0.000010	0.000010	0.00	0.00	0.00001	0.000010	0.000010	0.000010	0.00	0.00	0.00001	0.000010	0.000020	0.000020	0.00	0.00
Calcium (Dissolved)	mg/L	0.050	-	0.050	71.4	72.0	-	0.84	-	0.050	93.0	96.0	-	3.17	-	0.050	178	176	-	1.13
Chromium	mg/L	0.0010	0.001	0.0010	0.0010	0.0010	0.00	0.00	0.001	0.0010	0.0010	0.0010	0.00	0.00	0.001	0.0010	0.0020	0.0020	0.00	0.00
Cobalt	mg/L	0.00020	0.0002	0.00020	0.00080	0.00082	0.00	2.47	0.0002	0.00020	0.00057	0.00057	0.00	0.00	0.0002	0.00020	0.00147	0.00148	0.00	0.68
Copper	mg/L	0.00020	0.0002	0.00020	0.00198	0.00200	0.00	1.01	0.0002	0.00020	0.00215	0.00209	0.00	2.83	0.0002	0.00020	0.00275	0.00256	0.00	7.16
Iron	mg/L	0.0050	0.005	0.0050	0.0073	0.0050	0.00	**37.40**	0.005	0.0050	0.0061	0.0068	0.00	10.85	0.005	0.0050	0.010	0.010	0.00	0.00
Lanthanum	mg/L	-	0.00020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	0.00020	0.0002	0.00020	0.00020	0.00020	0.00	0.00	0.0002	0.00020	0.00020	0.00020	0.00	0.00	0.0002	0.00020	0.00040	0.00040	0.00	0.00
Lithium	mg/L	0.0020	0.002	0.0020	0.0146	0.0142	0.00	2.78	0.002	0.0020	0.0204	0.0208	0.00	1.94	0.002	0.0020	0.0243	0.0240	0.00	1.24
Magnesium (Dissolv	mg/L	0.050	-	0.050	18.8	19.4	-	3.14	-	0.050	29.1	29.6	-	1.70	-	0.050	60.0	60.7	-	1.16
Manganese	mg/L	0.0010	0.001	0.0010	0.0195	0.0190	0.00	2.60	0.001	0.0010	0.0329	0.0327	0.00	0.61	0.001	0.0010	0.121	0.120	0.00	0.83
Mercury	mg/L	0.00001	0.00001	0.00001	0.00001	0.00001	0.00	0.00	0.00001	0.00001	0.00001	0.00001	0.00	0.00	0.00001	0.00001	0.00001	0.00001	0.00	0.00
Molybdenum	mg/L	0.0010	0.001	0.0010	0.0047	0.0048	0.00	2.11	0.001	0.0010	0.0045	0.0044	0.00	2.25	0.001	0.0010	0.0061	0.0061	0.00	0.00
Nickel	mg/L	0.0010	0.001	0.0010	0.0027	0.0029	0.00	7.14	0.001	0.0010	0.0037	0.0037	0.00	0.00	0.001	0.0010	0.0094	0.0089	0.00	5.46
Potassium (Dissolve	mg/L	0.050	-	0.050	11.3	11.5	-	1.75	-	0.050	15.9	16.0	-	0.63	-	0.050	25.3	25.9	-	2.34
Selenium	mg/L	0.00010	0.0001	0.00010	0.00048	0.00050	0.00	4.08	0.0001	0.00010	0.00046	0.00049	0.00	6.32	0.0001	0.00010	0.00100	0.00095	0.00	5.13
Silicon	mg/L	-	-	-	-	-			-	-	-	-			-	-	-	-		
Silver	mg/L	0.000020	0.00002	0.000020	0.000020	0.000020	0.00	0.00	0.00002	0.000020	0.000020	0.000020	0.00	0.00	0.00002	0.000020	0.000040	0.000040	0.00	0.00
Sodium (Dissolved)	mg/L	0.050	-	0.050	124	124	-	0.00	-	0.054	172	173	-	0.58	-	0.050	337	354	-	4.92
Strontium	mg/L	0.0010	0.001	0.0010	0.729	0.744	0.00	2.04	0.001	0.0010	1.04	1.05	0.00	0.96	0.001	0.0010	1.59	1.60	0.00	0.63
Thallium	mg/L	0.000010	0.00001	0.000010	0.000013	0.000013	0.00	0.00	0.00001	0.000010	0.000010	0.000010	0.00	0.00	0.00001	0.000010	0.000020	0.000020	0.00	0.00
Tin	mg/L	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00	0.005	0.0050	0.0050	0.0050	0.00	0.00	0.005	0.0050	0.010	0.010	0.00	0.00
Titanium	mg/L	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00	0.005	0.0050	0.0050	0.0050	0.00	0.00	0.005	0.0050	0.010	0.010	0.00	0.00
Uranium	mg/L	0.00010	0.0001	0.00010	0.00150	0.00148	0.00	1.34	0.0001	0.00010	0.00117	0.00119	0.00	1.69	0.0001	0.00010	0.00556	0.00545	0.00	2.00
Vanadium	mg/L	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00	0.005	0.0050	0.0050	0.0050	0.00	0.00	0.005	0.0050	0.010	0.010	0.00	0.00
Zinc	mg/L	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00	0.005	0.0050	0.0050	0.0050	0.00	0.00	0.005	0.0050	0.010	0.010	0.00	0.00
Zirconium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium (SW6010)	mg/L	1	1	1	12	13	0.00	8.00	1	1	17	17	0.00	0.00	1	1	28	29	0.00	3.51
Calcium (SW6010)	mg/L	0.05	0.05	0.05	76	78	0.00	2.60	0.05	0.05	100	99	0.00	1.01	0.05	0.54	180	180	***166.10***	0.00
Sodium (SW6010)	mg/L	0.5	0.5	0.5	140	150	0.00	6.90	0.5	0.5	180	180	0.00	0.00	0.5	1.1	360	370	75.00	2.74
Magnesium (SW6010	mg/L	0.05	0.05	0.05	21	21	0.00	0.00	0.05	0.05	31	30	0.00	3.28	0.05	0.18	62	63	**113.04**	1.60
WQ08- Radionuclides																				
Radium-226	Bq/l	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00	0.005	0.0050	0.0050	0.0050	0.00	0.00	0.005	0.0050	0.010	0.0090	0.00	10.53
% Exceedance*							0%	0%					0%	0%					0%	0%

Footnotes:

RPD = Relative Percent Difference; MDL: Method Detection Limit

All value "<DL" have been replaced by "DL".

* Although usually consistent, in the rare event that there were two different RDLs for different sampling events, the lower one was used. This may cause artifical 10x MDL exceedances.

Bold values correspond to a RPD higher than 20% and for which concentrations of parent and duplicate samples are within 10x the MDL.

Grey shaded cells correspond to a RPD higher than 20% and for which concentrations of parent and duplicate samples are above 10x the MDL.

Bold & Italic values correspond to a RPD higher than 20% and for which one of the result is within 10X the MDL and the other one exceeds 10x the MDL.

MEL-15	CCME	Sample date	Average						6/4/2025	6/15/2025	7/7/2025	8/5/2025	9/7/2025	10/3/2025
Parameter	Guideline	Unit	2020	2021	2022	2023	2024	2025						
WQ01- Field Measured														
Temperature		°C	14.1	7.98	10.53	9.30	9.30	7.32	1.00	4.60	13.50	12.60	9.60	2.60
pH	6.5 to 9.0	pH units	8.11	7.79	7.52	7.80	7.69	7.48	7.20	7.23	7.62	7.57	7.54	7.72
Conductivity		uS/cm	102.73	342.32	133.4	131.47	134.07	204.53	178.40	150.20	176.20	169.50	165.30	387.60
Dissolved oxygen		mg/L	10.72	26.8	10.59	11.59	11.58	12.70	14.93	13.24	10.17	6.92	13.99	16.95
Dissolved oxygen		%	102.83	85.56	95.3	97.57	99.85	103.28	105.00	102.70	97.60	65.10	122.70	126.60
WQ02- Conventional Parameters														
pH	6.5 to 9.0	pH units	7.62	7.63	7.62	7.61	7.60	7.75	7.79	7.76	7.65	7.88	7.88	7.56
Turbidity		NTU	0.43	0.23	0.6	0.50	0.77	0.52	0.60	0.50	0.70	0.40	0.40	0.50
Conductivity		umhos/cm	106.67	120	137	135.43	134.00	207.33	189.00	164.00	175.00	179.00	181.00	356.00
Hardness, as CaCO3		mg/L	40.97	43.33	50.1	45.09	45.73	77.32	67.10	56.30	63.20	66.30	67.00	144.00
Total alkalinity, as CaCO3		mg/L	35	36.83	43	40.57	41.33	54.83	57.00	42.00	48.00	61.00	50.00	71.00
Carbonate, as CaCO3		mg/L	1	0.5	0.5	0.50	0.50	0.50	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0
Bicarbonate, as CaCO3		mg/L	34.67	36.5	43	40.29	40.83	54.50	56.00	42.00	48.00	60.00	50.00	71.00
TDS		mg/L	75	60	85	77.14	83.33	110.83	70.00	100.00	100.00	90.00	75.00	230.00
TDS, calculated		mg/L	-	65	70	62.67	66.33	108.17	100.00	82.00	88.00	97.00	92.00	190.00
TSS		mg/L	1	1.58	1	1.21	1.50	1.75	< 1	< 1	2.00	6.00	< 1	1.00
Total organic carbon		mg/L	4.7	4.38	5.0	4.34	4.93	5.58	5.90	5.00	4.80	5.20	4.70	7.90
Dissolved organic carbon		mg/L	4.6	4.35	5	4.33	4.50	5.28	5.60	4.70	3.90	4.70	5.00	7.80
WQ03- Major Ions														
Chloride	120	mg/L	7.93	10.42	11.3	9.33	9.85	17.500	14.00	13.00	15.00	14.00	16.00	33.00
Cyanide		mg/L	0.005	0.0025	0.00071	0.0003	0.0004	0.001	0.00	0.00	< 0.0005	0.00	0.00	0.00
Cyanide (free)	0.005	mg/L	0.0017	0.002	0.0015	0.0028	0.0010	0.001	0.00	< 0.00050	< 0.0005	0.00	0.00	< 0.00050
Cyanide (WAD)		mg/L	0.001	0.0006	0.00079	0.0003	0.0003	0.000	0.00	< 0.00050	< 0.0005	0.00	< 0.00050	< 0.00050
Silica		mg/L	1.12	0.63	1.05	10.49	1.04	1.330	2.00	1.40	0.67	0.65	0.76	2.50
Sulfate	128	mg/L	5.3	6.23	7.6	8.61	7.05	22.500	20.00	15.00	17.00	14.00	12.00	57.00
WQ04- Nutrients and Chlorophyll a														
Ammonia Nitrogen (as N)		mg/L	0.2	0.03	0.044	0.03	0.03	0.056	0.17	0.06	< 0.05	< 0.050	< 0.050	< 0.050
Nitrate (as N)		mg/L	0.1	0.05	0.11	0.08	0.05	0.050	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 0.10
Nitrite (as N)		mg/L	0.01	0.01	0.005	0.01	0.01	0.005	< 0.010	< 0.010	< 0.01	< 0.010	< 0.010	< 0.010
Total Kjeldahl nitrogen		mg/L	0.27	0.24	0.30	0.25	0.30	0.267	0.21	0.24	0.19	0.31	0.24	0.41
Total phosphorus		mg/L	0.02	0.02	0.016	0.01	0.01	0.010	< 0.020	< 0.020	< 0.02	< 0.020	< 0.020	< 0.020
Orthophosphate (P)		mg/L	0.01	0.01	0.005	0.01	0.01	0.005	< 0.010	< 0.010	< 0.01	< 0.010	< 0.010	< 0.010
WQ06- Total Metals														
Aluminum		mg/L	0.00467	0.00597	0.0210	0.00487	0.01487	0.0047	0.01	0.01	0.00	< 0.0030	< 0.0030	0.00
Antimony		mg/L	0.0005	0.00025	0.00025	0.00025	0.00025	0.0003	< 0.00050	< 0.00050	< 0.0005	< 0.00050	< 0.00050	< 0.00050
Arsenic	0.005	mg/L	0.00112	0.00143	0.00277	0.00180	0.00536	0.0040	0.01	0.00	0.00	0.00	0.00	0.00
Barium		mg/L	0.01237	0.01217	0.0135	0.01216	0.01227	0.0195	0.02	0.02	0.02	0.02	0.01	0.03
Beryllium		mg/L	0.0001	0.00005	0.00005	0.00005	0.00005	0.0001	< 0.00010	< 0.00010	< 0.0001	< 0.00010	< 0.00010	< 0.00010
Boron		mg/L	0.05	0.025	0.025	0.02500	0.02500	0.0250	< 0.050	< 0.050	< 0.05	< 0.050	< 0.050	< 0.050
Cadmium	0.00006	mg/L	0.00001	0.00001	0.000005	0.00001	0.00001	0.0000	< 0.000010	< 0.000010	< 0.00001	< 0.000010	< 0.000010	< 0.000010
Chromium		mg/L	0.001	0.0005	0.0005	0.00050	0.00050	0.0005	< 0.0010	< 0.0010	< 0.001	< 0.0010	< 0.0010	< 0.0010
Copper	0.002	mg/L	0.00083	0.00078	0.00124	0.00056	0.00055	0.0007	0.00	0.00	0.00	0.00	0.00	0.00
Iron	0.3	mg/L	0.08367	0.07133	0.096	0.09043	0.12350	0.0795	0.07	0.09	0.10	0.05	0.06	0.11
Lead	0.001	mg/L	0.0002	0.00012	0.00013	0.00010	0.00030	0.0001	< 0.00020	< 0.00020	< 0.0002	< 0.00020	< 0.00020	< 0.00020
Lithium		mg/L	0.002	0.001	0.0010	0.00100	0.00100	0.0013	< 0.0020	< 0.0020	< 0.002	< 0.0020	< 0.0020	0.00
Manganese		mg/L	0.01007	0.0072	0.0128	0.01236	0.02273	0.0158	0.04	0.02	0.01	0.01	0.01	0.01
Mercury	0.000026	mg/L	0.00001	0.00001	0.000005	0.00001	0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	0.073	mg/L	0.001	0.00063	0.0005	0.00067	0.00050	0.0005	< 0.0010	< 0.0010	< 0.001	< 0.0010	< 0.0010	< 0.0010
Nickel	0.025	mg/L	0.0011	0.00072	0.0009	0.00050	0.00050	0.0010	0.00	0.00	< 0.001	< 0.0010	< 0.0010	0.00
Selenium	0.001	mg/L	0.0001	0.00005	0.00005	0.00005	0.00005	0.0001	< 0.00010	< 0.00010	< 0.0001	< 0.00010	< 0.00010	< 0.00010
Silver	0.0025	mg/L	0.00002	0.00001	0.000010	0.00001	0.00001	0.0000	< 0.000020	< 0.000020	< 0.00002	< 0.000020	< 0.000020	< 0.000020
Strontium		mg/L	0.07053	0.07312	0.0827	0.07753	0.07483	0.1323	0.11	0.10	0.10	0.11	0.11	0.26

Thallium	0.0008	mg/L	*0.00001*	*0.00001*	*0.000005*	*0.00001*	*0.00001*	*0.0000*	< 0.000010	< 0.000010	< 0.00001	< 0.000010	< 0.000010	< 0.000010
Tin		mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.0025*	< 0.0050	< 0.0050	< 0.005	< 0.0050	< 0.0050	< 0.0050
Titanium		mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.0025*	< 0.0050	< 0.0050	< 0.005	< 0.0050	< 0.0050	< 0.0050
Uranium	0.015	mg/L	*0.0001*	*0.00005*	*0.00005*	*0.00008*	*0.00005*	*0.0004*	< 0.00010	< 0.00010	< 0.0001	< 0.00010	< 0.00010	0.00
Vanadium		mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.0025*	< 0.0050	< 0.0050	< 0.005	< 0.0050	< 0.0050	< 0.0050
Zinc	0.03	mg/L	*0.005*	*0.00378*	*0.0025*	*0.00250*	*0.00250*	*0.0025*	< 0.0050	< 0.0050	< 0.005	< 0.0050	< 0.0050	< 0.0050
WQ07- Dissolved Metals														
Aluminum		mg/L	*0.00317*	*0.00462*	*0.0031*	*0.00150*	*0.00275*	*0.00420*	0.00	< 0.0030	< 0.003	< 0.0030	< 0.0030	< 0.0030
Antimony		mg/L	*0.0005*	*0.00025*	*0.00025*	*0.00025*	*0.00025*	*0.00025*	< 0.00050	< 0.00050	< 0.0005	< 0.00050	< 0.00050	< 0.00050
Arsenic	0.005	mg/L	*0.00098*	*0.00129*	*0.00240*	*0.00166*	*0.00428*	*0.00357*	0.01	0.00	0.00	0.00	0.00	0.00
Barium		mg/L	*0.0123*	*0.01193*	*0.0130*	*0.01333*	*0.01293*	*0.01968*	0.02	0.02	0.02	0.02	0.01	0.03
Beryllium		mg/L	*0.0001*	*0.00005*	*0.00005*	*0.00005*	*0.00005*	*0.00005*	< 0.00010	< 0.00010	< 0.0001	< 0.00010	< 0.00010	< 0.00010
Boron		mg/L	*0.05*	*0.025*	*0.025*	*0.02500*	*0.02500*	*0.02500*	< 0.050	< 0.050	< 0.05	< 0.050	< 0.050	< 0.050
Cadmium	0.00006	mg/L	*0.00001*	*0.00001*	*0.000005*	*0.00001*	*0.00001*	*0.00001*	< 0.000010	< 0.000010	< 0.00001	< 0.000010	< 0.000010	< 0.000010
Calcium (Dissolved)		mg/L	*-*	*14.43333*	*16.5*	*17.44143*	*16.47500*	*25.06667*	22.80	19.80	19.30	22.40	22.90	43.20
Chromium		mg/L	*0.001*	*0.0005*	*0.0005*	*0.00050*	*0.00050*	*0.00050*	< 0.0010	< 0.0010	< 0.001	< 0.0010	< 0.0010	< 0.0010
Copper	0.002	mg/L	*0.00077*	*0.00081*	*0.00075*	*0.00061*	*0.00064*	*0.00080*	0.00	0.00	0.00	0.00	0.00	0.00
Iron	0.3	mg/L	*0.04337*	*0.04073*	*0.0431*	*0.04913*	*0.04897*	*0.04585*	0.03	0.06	0.06	0.03	0.03	0.07
Lead	0.001	mg/L	*0.0002*	*0.0001*	*0.00010*	*0.00010*	*0.00013*	*0.00010*	< 0.00020	< 0.00020	< 0.0002	< 0.00020	< 0.00020	< 0.00020
Lithium		mg/L	*0.002*	*0.001*	*0.0010*	*0.00100*	*0.00100*	*0.00130*	< 0.0020	< 0.0020	< 0.002	< 0.0020	< 0.0020	0.00
Magnesium (Dissolved)		mg/L	*-*	*1.65333*	*1.84*	*1.98543*	*2.04233*	*2.88833*	2.69	2.32	2.17	2.59	2.56	5.00
Manganese		mg/L	*0.00477*	*0.00315*	*0.0071*	*0.00520*	*0.01513*	*0.01057*	0.03	0.01	0.00	0.00	0.00	0.01
Mercury	0.000026	mg/L	*0.00001*	*0.00001*	*0.000005*	*0.00001*	*0.00001*	*0.00001*	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	0.073	mg/L	*0.001*	*0.0005*	*0.0005*	*0.00050*	*0.00050*	*0.00050*	< 0.0010	< 0.0010	< 0.001	< 0.0010	< 0.0010	< 0.0010
Nickel	0.025	mg/L	*0.00113*	*0.0007*	*0.0006*	*0.00059*	*0.00060*	*0.00092*	0.00	0.00	< 0.001	< 0.0010	< 0.0010	0.00
Potassium (Dissolved)		mg/L	*-*	*0.98817*	*1.310*	*1.10500*	*1.14883*	*1.42667*	1.49	1.19	1.12	1.29	1.36	2.11
Selenium	0.001	mg/L	*0.0001*	*0.00005*	*0.00005*	*0.00005*	*0.00005*	*0.00005*	< 0.00010	< 0.00010	< 0.0001	< 0.00010	< 0.00010	< 0.00010
Silver	0.0025	mg/L	*0.00002*	*0.00001*	*0.000010*	*0.00001*	*0.00001*	*0.00001*	< 0.000020	< 0.000020	< 0.00002	< 0.000020	< 0.000020	< 0.000020
Sodium (Dissolved)		mg/L	*-*	*6.05833*	*5.39*	*5.10714*	*5.12833*	*6.86667*	6.24	5.92	5.59	6.39	6.36	10.70
Strontium		mg/L	*0.07303*	*0.0729*	*0.0825*	*0.08826*	*0.07877*	*0.12940*	0.12	0.10	0.11	0.12	0.11	0.23
Thallium	0.0008	mg/L	*0.00001*	*0.00001*	*0.000005*	*0.00001*	*0.00001*	*0.00001*	< 0.000010	< 0.000010	< 0.00001	< 0.000010	< 0.000010	< 0.000010
Tin		mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.00250*	< 0.0050	< 0.0050	< 0.005	< 0.0050	< 0.0050	< 0.0050
Titanium		mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.00250*	< 0.0050	< 0.0050	< 0.005	< 0.0050	< 0.0050	< 0.0050
Uranium	0.015	mg/L	*0.0001*	*0.00005*	*0.00005*	*0.00009*	*0.00005*	*0.00011*	< 0.00010	< 0.00010	< 0.0001	< 0.00010	< 0.00010	0.00
Vanadium		mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.00250*	< 0.0050	< 0.0050	< 0.005	< 0.0050	< 0.0050	< 0.0050
Zinc	0.03	mg/L	*0.005*	*0.00348*	*0.0025*	*0.00250*	*0.00250*	*0.00298*	0.01	< 0.0050	< 0.005	< 0.0050	< 0.0050	< 0.0050

		Sample date	6/4/2025						6/15/2025					
		Sample type	Lab Blank	Field Blank	Original	Duplicate			Lab Blank	Field Blank	Original	Duplicate		
		LAB_SDG	C567479	C567479	C567479	C567479	C567479	C567479	C572624	C572624	C572624	C572624	C572624	C572624
Parameter	Unit	MDL					RPD (LB/FB)	RPD (N/FD)					RPD (LB/FB)	RPD (N/FD)
WQ02- Conventional Parameters														
pH	pH units	-	-	5.66	7.79	7.79	-	0.00		5.77	7.76	7.78	-	0.26
Dissolved Oxygen	%	-	-	105.0	105.0	105.0	-	0.00		102.7	102.7	102.7	-	0.00
Turbidity	NTU	0.1	0.1	0.1	0.6	0.6	0.00	0.00		0.1	0.5	0.6	-	18.18
Conductivity	ms/cm	0.002	0.002	0.002	0.189	0.189	0.00	0.00	0.002	0.002	0.164	0.163	0.00	0.61
Conductivity	umhos/cm	-	-	-	-	-	-	-		-	-	-	-	-
Hardness, as CaCO3	mg/L	0.50	-	0.50	67.1	68.5	-	2.06		0.50	56.3	59.7	-	5.86
Hardness, as CaCO3-t	mg/L	0.50	-	0.50	68.1	69.1	-	1.46		0.50	58.9	59.7	-	1.35
Total alkalinity, as Ca	mg/L	1.0	1	1.0	57	56	0.00	1.77	1	1.0	42	42	0.00	0.00
Carbonate, as CaCO3	mg/L	1.0	-	1.0	1.0	1.0	-	0.00		1.0	1.0	1.0	-	0.00
Bicarbonate, as CaCO	mg/L	1.0	-	1.0	56	55	-	1.80		1.0	42	41	-	2.41
TDS	mg/L	10	10	10	70	70	0.00	0.00		10	100	105	-	4.88
TDS, calculated	mg/L	1.0	-	1.0	100	100	-	0.00		1.0	82	82	-	0.00
TSS	mg/L	1	1	1	1	1	0.00	0.00	1	1	1	1	0.00	0.00
Total organic carbon	mg/L	0.40	0.4	0.40	5.9	6.0	0.00	1.68	0.4	0.40	5.0	4.6	0.00	8.33
Dissolved organic car	mg/L	0.40	0.4	0.40	5.6	5.8	0.00	3.51	0.4	0.40	4.7	4.6	0.00	2.15
WQ03- Major Ions														
Chloride	mg/L	1.0	1	1.0	14	13	0.00	7.41		1.0	13	13	-	0.00
Cyanide	mg/L	0.00050	0.0005	0.00050	0.00077	0.00073	0.00	5.33	0.0005	0.00050	0.00090	0.00050	0.00	**57.14**
Cyanide (free)	mg/L	0.00050	0.0005	0.00050	0.00075	0.00066	0.00	12.77	0.0005	0.00050	0.00050	0.00064	0.00	**24.56**
Cyanide (WAD)	mg/L	0.00050	0.0005	0.00050	0.00061	0.00061	0.00	0.00	0.0005	0.00050	0.00050	0.00050	0.00	0.00
Fluoride	mg/L	0.10	0.1	0.10	0.10	0.10	0.00	0.00	0.1	0.10	0.10	0.10	0.00	0.00
Silica	mg/L	0.050	0.05	0.050	2.0	2.1	0.00	4.88		0.050	1.4	1.2	-	15.38
Sulfate	mg/L	0.50	0.5	0.50	20	20	0.00	0.00	0.5	0.50	15	15	0.00	0.00
WQ04- Nutrients and Chlorophyll a														
Ammonia Nitrogen (a	mg/L	0.050	0.05	0.050	0.17	0.12	0.00	**34.48**	0.05	0.050	0.063	0.084	0.00	**28.57**
Nitrate (as N)	mg/L	0.10	0.1	0.10	0.10	0.11	0.00	9.52		0.10	0.10	0.10	-	0.00
Nitrite (as N)	mg/L	0.010	0.01	0.010	0.010	0.010	0.00	0.00		0.010	0.010	0.010	-	0.00
Nitrate + nitrite (as N	mg/L	0.10		0.10	0.10	0.11	-	9.52		0.10	0.10	0.10	-	0.00
Total Kjeldahl nitroge	mg/L	0.10	0.1	0.10	0.21	0.36	0.00	**52.63**	0.1	0.10	0.24	0.22	0.00	8.70
Total phosphorus	mg/L	0.020	0.02	0.020	0.020	0.020	0.00	0.00	0.02	0.020	0.020	0.020	0.00	0.00
Orthophosphate (P)	mg/L	0.010	0.01	0.010	0.010	0.010	0.00	0.00		0.010	0.010	0.010	-	0.00
WQ06- Total Metals														
Aluminum	mg/L	0.0030	0.003	0.0030	0.0119	0.0113	0.00	5.17	0.003	0.0030	0.0053	0.0074	0.00	**33.07**
Antimony	mg/L	0.00050	0.0005	0.00050	0.00050	0.00050	0.00	0.00	0.0005	0.00050	0.00050	0.00050	0.00	0.00
Arsenic	mg/L	0.00010	0.0001	0.00010	0.00772	0.00791	0.00	2.43	0.0001	0.00010	0.00404	0.00427	0.00	5.54
Barium	mg/L	0.0010	0.001	0.0010	0.0205	0.0212	0.00	3.36	0.001	0.0010	0.0173	0.0184	0.00	6.16
Beryllium	mg/L	0.00010	0.0001	0.00010	0.00010	0.00010	0.00	0.00	0.0001	0.00010	0.00010	0.00010	0.00	0.00
Bismuth	mg/L	-	-	-	-	-	-	-	0.0010	-	-	-	-	-
Boron	mg/L	0.050	0.05	0.050	0.050	0.050	0.00	0.00	0.05	0.050	0.050	0.050	0.00	0.00
Cadmium	mg/L	0.000010	0.00001	0.000010	0.000010	0.000010	0.00	0.00	0.00001	0.000010	0.000010	0.000010	0.00	0.00
Calcium (total)	mg/L	0.050	-	0.050	22.8	23.3	-	2.17	-	0.050	19.0	20.1	-	5.63
Chromium	mg/L	0.0010	0.001	0.0010	0.0010	0.0010	0.00	0.00	0.001	0.0010	0.0010	0.0010	0.00	0.00
Cobalt	mg/L	-	-	-	-	-	-	-	0.00020	-	-	-	-	-
Copper	mg/L	0.00050	0.0005	0.00050	0.00092	0.00097	0.00	5.29	0.0005	0.00050	0.00061	0.00071	0.00	15.15
Iron	mg/L	0.010	0.01	0.010	0.073	0.079	0.00	7.89	0.01	0.010	0.088	0.108	0.00	***20.41***
Lanthanum	mg/L	-	-	-	-	-	-	-	0.00020	-	-	-	-	-
Lead	mg/L	0.00020	0.0002	0.00020	0.00020	0.00020	0.00	0.00	0.0002	0.00020	0.00020	0.00020	0.00	0.00
Lithium	mg/L	0.0020	0.002	0.0020	0.0020	0.0020	0.00	0.00	0.002	0.0020	0.0020	0.0020	0.00	0.00
Magnesium (total)	mg/L	0.050	-	0.050	2.45	2.51	-	2.42	-	0.050	2.16	2.32	-	7.14
Manganese	mg/L	0.0010	0.001	0.0010	0.0353	0.0375	0.00	6.04	0.001	0.0010	0.0155	0.0172	0.00	10.40
Mercury	mg/L	0.00001	0.00001	0.00001	0.00001	0.00001	0.00	0.00	0.00001	0.00001	0.00001	0.00001	0.00	0.00
Molybdenum	mg/L	0.0010	0.001	0.0010	0.0010	0.0010	0.00	0.00	0.001	0.0010	0.0010	0.0010	0.00	0.00
Nickel	mg/L	0.0010	0.001	0.0010	0.0014	0.0015	0.00	6.90	0.001	0.0010	0.0010	0.0011	0.00	9.52
Potassium (total)	mg/L	0.050	-	0.050	1.37	1.40	-	2.17	-	0.050	1.12	1.19	-	6.06
Selenium	mg/L	0.00010	0.0001	0.00010	0.00010	0.00010	0.00	0.00	0.0001	0.00010	0.00010	0.00010	0.00	0.00
Silicon	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	0.000020	0.00002	0.000020	0.000020	0.000020	0.00	0.00	0.00002	0.000020	0.000020	0.000020	0.00	0.00
Sodium (total)	mg/L	0.050	-	0.050	5.75	6.03	-	4.75	-	0.050	5.43	5.64	-	3.79
Strontium	mg/L	0.0010	0.001	0.0010	0.110	0.112	0.00	1.80	0.001	0.0010	0.0976	0.102	0.00	4.41
Thallium	mg/L	0.000010	0.00001	0.000010	0.000010	0.000010	0.00	0.00	0.00001	0.000010	0.000010	0.000010	0.00	0.00
Tin	mg/L	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00	0.005	0.0050	0.0050	0.0050	0.00	0.00
Titanium	mg/L	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00	0.005	0.0050	0.0050	0.0050	0.00	0.00
Uranium	mg/L	0.00010	0.0001	0.00010	0.00010	0.00010	0.00	0.00	0.0001	0.00010	0.00010	0.00010	0.00	0.00
Vanadium	mg/L	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00	0.005	0.0050	0.0050	0.0050	0.00	0.00
Zinc	mg/L	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00	0.005	0.0050	0.0050	0.0147	0.00	**98.48**
Zirconium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
WQ07- Dissolved Metals														
Aluminum	mg/L	0.0030	0.003	0.0030	0.0042	0.0050	0.00	17.39	0.003	0.0030	0.0030	0.0030	0.00	0.00
Antimony	mg/L	0.00050	0.0005	0.00050	0.00050	0.00050	0.00	0.00	0.0005	0.00050	0.00050	0.00050	0.00	0.00
Arsenic	mg/L	0.00010	0.0001	0.00010	0.00711	0.00720	0.00	1.26	0.0001	0.00010	0.00343	0.00332	0.00	3.26
Barium	mg/L	0.0010	0.001	0.0010	0.0218	0.0216	0.00	0.92	0.001	0.0010	0.0186	0.0177	0.00	4.96
Beryllium	mg/L	0.00010	0.0001	0.00010	0.00010	0.00010	0.00	0.00	0.0001	0.00010	0.00010	0.00010	0.00	0.00
Bismuth	mg/L	-	-	-	-	-	-	-	0.0010	-	-	-	-	-
Boron	mg/L	0.050	0.05	0.050	0.050	0.050	0.00	0.00	0.05	0.050	0.050	0.050	0.00	0.00
Cadmium	mg/L	0.000010	0.00001	0.000010	0.000010	0.000010	0.00	0.00	0.00001	0.000010	0.000010	0.000010	0.00	0.00
Calcium (Dissolved)	mg/L	0.050	-	0.050	22.8	23.1	-	1.31	-	0.050	19.8	20.3	-	2.49
Chromium	mg/L	0.0010	0.001	0.0010	0.0010	0.0010	0.00	0.00	0.001	0.0010	0.0010	0.0010	0.00	0.00
Cobalt	mg/L	-	-	-	-	-	-	-	0.00020	-	-	-	-	-

Copper	**mg/L**	0.00020	0.0002	0.00020	0.00123	0.00111	0.00	10.26	0.0002	0.00020	0.00075	0.00075	0.00	0.00
Iron	**mg/L**	0.0050	0.005	0.0050	0.0335	0.0407	0.00	19.41	0.005	0.0050	0.0588	0.0582	0.00	1.03
Lanthanum	**mg/L**	-	-	-	-	-	-	-	0.00020	-	-	-	-	-
Lead	**mg/L**	0.00020	0.0002	0.00020	0.00020	0.00020	0.00	0.00	0.0002	0.00020	0.00020	0.00020	0.00	0.00
Lithium	**mg/L**	0.0020	0.002	0.0020	0.0020	0.0020	0.00	0.00	0.002	0.0020	0.0020	0.0020	0.00	0.00
Magnesium (Dissolve	**mg/L**	0.050	-	0.050	2.69	2.77	-	2.93	-	0.050	2.32	2.20	-	5.31
Manganese	**mg/L**	0.0010	0.001	0.0010	0.0341	0.0340	0.00	0.29	0.001	0.0010	0.0132	0.0126	0.00	4.65
Mercury	**mg/L**	0.00001	0.00001	0.00001	0.00001	0.00001	0.00	0.00	0.00001	0.00001	0.00001	0.00001	0.00	0.00
Molybdenum	**mg/L**	0.0010	0.001	0.0010	0.0010	0.0010	0.00	0.00	0.001	0.0010	0.0010	0.0010	0.00	0.00
Nickel	**mg/L**	0.0010	0.001	0.0010	0.0014	0.0015	0.00	6.90	0.001	0.0010	0.0011	0.0010	0.00	9.52
Potassium (Dissolved	**mg/L**	0.050	-	0.050	1.49	1.50	-	0.67	-	0.050	1.19	1.14	-	4.29
Selenium	**mg/L**	0.00010	0.0001	0.00010	0.00010	0.00010	0.00	0.00	0.0001	0.00010	0.00010	0.00010	0.00	0.00
Silicon	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	**mg/L**	0.000020	0.00002	0.000020	0.000020	0.000020	0.00	0.00	0.00002	0.000020	0.000020	0.000020	0.00	0.00
Sodium (Dissolved)	**mg/L**	0.050	-	0.050	6.24	6.32	-	1.27	-	0.050	5.92	5.61	-	5.38
Strontium	**mg/L**	0.0010	0.001	0.0010	0.115	0.117	0.00	1.72	0.001	0.0010	0.0984	0.0975	0.00	0.92
Thallium	**mg/L**	0.000010	0.00001	0.000010	0.000010	0.000010	0.00	0.00	0.00001	0.000010	0.000010	0.000010	0.00	0.00
Tin	**mg/L**	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00	0.005	0.0050	0.0050	0.0050	0.00	0.00
Titanium	**mg/L**	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00	0.005	0.0050	0.0050	0.0050	0.00	0.00
Uranium	**mg/L**	0.00010	0.0001	0.00010	0.00010	0.00010	0.00	0.00	0.0001	0.00010	0.00010	0.00010	0.00	0.00
Vanadium	**mg/L**	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00	0.005	0.0050	0.0050	0.0050	0.00	0.00
Zinc	**mg/L**	0.0050	0.005	0.0050	0.0054	0.0050	0.00	7.69	0.005	0.0050	0.0050	0.0050	0.00	0.00
Zirconium	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
% Exceedance*							0%	0%					0%	0%

Footnotes:

RPD = Relative Percent Difference; MDL: Method Detection Limit

All value "<DL" have been replaced by "DL".

* Although usually consistent, in the rare event that there were two different RDLs for different sampling events, the lower one was used. This may cause artifical 10x MDL exceedances.

Bold values correspond to a RPD higher than 20% and for which concentrations of parent and duplicate samples are within 10x the MDL.

Grey shaded cells correspond to a RPD higher than 20% and for which concentrations of parent and duplicate samples are above 10x the MDL.

Bold & Italic values correspond to a RPD higher than 20% and for which one of the result is within 10X the MDL and the other one exceeds 10x the MDL.

MEL-16	CCME	Sample date	*Average*						6/4/2025	6/15/2025	7/7/2025	8/5/2025	9/7/2025	10/3/2025
Parameter	**Guideline**	**Unit**	***2020***	***2021***	***2022***	***2023***	***2024***	***2025***						
WQ01- Field Measured														
Temperature		°C	*15.03*	*7.98*	*9.5*	*10.09*	*8.93*	*7.40*	0.40	3.00	14.50	12.80	9.90	3.80
pH	6.5 to 9.0	pH units	*8.13*	*7.73*	*7.63*	*7.84*	*7.71*	*7.53*	6.33	7.31	8.63	7.45	7.73	7.71
Conductivity		uS/cm	*69.57*	*117.63*	*159.2*	*126.06*	*143.57*	*181.75*	120.60	146.30	158.50	164.70	302.10	198.30
Dissolved oxygen		mg/L	*10.25*	*26.3*	*10.62*	*9.68*	*11.20*	*12.82*	15.25	13.28	10.45	8.67	12.44	16.84
Dissolved oxygen		%	*99.93*	*82.33*	*92.3*	*99.99*	*96.50*	*104.65*	105.70	98.70	102.60	81.90	110.10	128.90
WQ02- Conventional Parameters														
pH	6.5 to 9.0	pH units	*7.54*	*7.64*	*7.50*	*7.57*	*7.60*	*7.68*	7.61	7.60	7.65	7.75	7.73	7.72
Turbidity		NTU	*0.5*	*0.48*	*0.4*	*0.46*	*0.82*	*0.63*	1.10	1.00	0.60	0.30	0.50	0.30
Conductivity		umhos/cm	*102*	*118.33*	*136*	*130.57*	*146.83*	*167.50*	123.00	150.00	153.00	175.00	199.00	205.00
Hardness, as CaCO3		mg/L	*36.23*	*42.83*	*48.3*	*42.27*	*47.25*	*57.98*	40.60	49.60	51.90	60.40	73.60	71.80
Total alkalinity, as CaCO3		mg/L	*24.67*	*30.67*	*33*	*33.57*	*37.95*	*42.17*	30.00	35.00	39.00	53.00	45.00	51.00
Carbonate, as CaCO3		mg/L	*1*	*0.5*	*0.5*	*0.50*	*0.50*	*0.50*	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0
Bicarbonate, as CaCO3		mg/L	*24.67*	*30.5*	*33*	*33.57*	*37.78*	*42.00*	30.00	35.00	39.00	53.00	45.00	50.00
TDS		mg/L	*76.67*	*75*	*94.17*	*72.86*	*103.33*	*87.50*	35.00	95.00	90.00	100.00	95.00	110.00
TDS, calculated		mg/L	*-*	*64.67*	*65*	*60.43*	*71.50*	*82.83*	58.00	71.00	77.00	92.00	99.00	100.00
TSS		mg/L	*2*	*2*	*1*	*1.86*	*1.92*	*1.58*	< 1	3.00	4.00	1.00	< 1	< 1
Total organic carbon		mg/L	*4*	*4.23*	*4.5*	*3.97*	*4.42*	*4.00*	3.40	3.40	3.80	4.60	4.40	4.40
Dissolved organic carbon		mg/L	*3.83*	*4.22*	*4.1*	*3.99*	*4.07*	*4.08*	3.40	3.60	3.80	4.10	5.20	4.40
WQ03- Major Ions														
Chloride	120	mg/L	*13.33*	*15.33*	*17*	*13.60*	*15.95*	*18.67*	13.00	16.00	18.00	19.00	23.00	23.00
Cyanide		mg/L	*0.005*	*0.0025*	*0.00151*	*0.0006*	*0.0005*	*0.00052*	0.00	< 0.00050	< 0.0005	0.00	0.00	< 0.00050
Cyanide (free)	0.005	mg/L	*0.0012*	*0.0026*	*0.0014*	*0.0028*	*0.0012*	*0.00062*	0.00	0.00	< 0.0005	0.00	0.00	< 0.00050
Cyanide (WAD)		mg/L	*0.001*	*0.0006*	*0.00112*	*0.0005*	*0.0005*	*0.00040*	0.00	< 0.00050	< 0.0005	0.00	< 0.00050	< 0.00050
Silica		mg/L	*0.29*	*0.33*	*0.523*	*0.42*	*0.52*	*0.50500*	0.73	0.74	0.35	0.35	0.53	0.33
Sulfate	128	mg/L	*2.37*	*4.03*	*4.5*	*4.11*	*6.50*	*10.30*	6.80	8.10	9.90	11.00	12.00	14.00
WQ04- Nutrients and Chlorophyll a														
Ammonia Nitrogen (as N)		mg/L	*0.09*	*0.03*	*0.033*	*0.03*	*0.03*	*0.10*	0.21	0.23	< 0.05	0.06	< 0.050	< 0.050
Nitrate (as N)	13	mg/L	*0.1*	*0.05*	*0.05*	*0.05*	*0.05*	*0.05*	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 0.10
Nitrite (as N)	0.06	mg/L	*0.01*	*0.01*	*0.005*	*0.01*	*0.01*	*0.01*	< 0.010	< 0.010	< 0.01	< 0.010	< 0.010	< 0.010
Total Kjeldahl nitrogen		mg/L	*0.21*	*0.24*	*0.22*	*0.28*	*0.30*	*0.24*	0.17	0.33	0.18	0.23	0.29	0.26
Total phosphorus		mg/L	*0.02*	*0.02*	*0.010*	*0.01*	*0.01*	*0.01*	< 0.020	< 0.020	< 0.02	< 0.020	< 0.020	< 0.020
Orthophosphate (P)		mg/L	*0.01*	*0.01*	*0.005*	*0.01*	*0.01*	*0.01*	< 0.010	< 0.010	< 0.01	< 0.010	< 0.010	< 0.010
WQ06- Total Metals														
Aluminum		mg/L	*0.01203*	*0.02493*	*0.0112*	*0.00884*	*0.01288*	*0.00958*	0.02	0.01	0.01	0.00	0.01	0.00
Antimony		mg/L	*0.0005*	*0.00025*	*0.00025*	*0.00025*	*0.00025*	*0.00025*	< 0.00050	< 0.00050	< 0.0005	< 0.00050	< 0.00050	< 0.00050
Arsenic	0.005	mg/L	*0.00294*	*0.00545*	*0.00609*	*0.00847*	*0.01301*	*0.01013*	0.01	0.01	0.01	0.01	0.01	0.01
Barium		mg/L	*0.01947*	*0.0212*	*0.0212*	*0.01960*	*0.02130*	*0.02557*	0.02	0.02	0.02	0.03	0.03	0.03
Beryllium		mg/L	*0.0001*	*0.00005*	*0.00005*	*0.00005*	*0.00005*	*0.00005*	< 0.00010	< 0.00010	< 0.0001	< 0.00010	< 0.00010	< 0.00010
Boron		mg/L	*0.05*	*0.025*	*0.025*	*0.02500*	*0.02500*	*0.02500*	< 0.050	< 0.050	< 0.05	< 0.050	< 0.050	< 0.050
Cadmium	0.00006	mg/L	*0.00001*	*0.00001*	*0.000005*	*0.00001*	*0.00001*	*0.00001*	< 0.000010	< 0.000010	< 0.00001	< 0.000010	< 0.000010	< 0.000010
Chromium		mg/L	*0.001*	*0.0005*	*0.0005*	*0.00050*	*0.00050*	*0.00050*	< 0.0010	< 0.0010	< 0.001	< 0.0010	< 0.0010	< 0.0010
Copper	0.002	mg/L	*0.00099*	*0.00134*	*0.00111*	*0.00089*	*0.00097*	*0.00096*	0.00	0.00	0.00	0.00	0.00	0.00
Iron	0.3	mg/L	*0.14567*	*0.11967*	*0.090*	*0.09914*	*0.11150*	*0.11300*	0.17	0.21	0.09	0.05	0.10	0.06
Lead	0.001	mg/L	*0.00026*	*0.00038*	*0.00016*	*0.00024*	*0.00029*	*0.00013*	0.00	< 0.00020	< 0.0002	< 0.00020	< 0.00020	< 0.00020
Lithium		mg/L	*0.002*	*0.001*	*0.0010*	*0.00100*	*0.00100*	*0.00100*	< 0.0020	< 0.0020	< 0.002	< 0.0020	< 0.0020	< 0.0020
Manganese		mg/L	*0.00913*	*0.00797*	*0.0088*	*0.01049*	*0.01578*	*0.01853*	0.06	0.03	0.01	0.01	0.00	0.00
Mercury	0.000026	mg/L	*0.00001*	*0.00001*	*0.000005*	*0.00001*	*0.00001*	*0.00001*	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	0.073	mg/L	*0.001*	*0.0005*	*0.0005*	*0.00050*	*0.00050*	*0.00050*	< 0.0010	< 0.0010	< 0.001	< 0.0010	< 0.0010	< 0.0010
Nickel	0.025	mg/L	*0.001*	*0.0006*	*0.0005*	*0.00050*	*0.00050*	*0.00050*	< 0.0010	< 0.0010	< 0.001	< 0.0010	< 0.0010	< 0.0010
Selenium	0.001	mg/L	*0.0001*	*0.00005*	*0.00005*	*0.00005*	*0.00005*	*0.00005*	< 0.00010	< 0.00010	< 0.0001	< 0.00010	< 0.00010	< 0.00010

Silver	0.0025	mg/L	*0.00002*	*0.00001*	*0.000010*	*0.00001*	*0.00001*	*0.00001*	< 0.000020	< 0.000020	< 0.00002	< 0.000020	< 0.000020	< 0.000020
Strontium		mg/L	*0.06343*	*0.07083*	*0.0788*	*0.07249*	*0.08208*	*0.09650*	0.07	0.08	0.08	0.10	0.12	0.12
Thallium	0.0008	mg/L	*0.00001*	*0.00001*	*0.000006*	*0.00001*	*0.00001*	*0.00001*	< 0.000010	< 0.000010	< 0.00001	< 0.000010	< 0.000010	< 0.000010
Tin		mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.00250*	< 0.0050	< 0.0050	< 0.005	< 0.0050	< 0.0050	< 0.0050
Titanium		mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.00250*	< 0.0050	< 0.0050	< 0.005	< 0.0050	< 0.0050	< 0.0050
Uranium	0.015	mg/L	*0.0001*	*0.00005*	*0.00005*	*0.00005*	*0.00006*	*0.00005*	< 0.00010	< 0.00010	< 0.0001	< 0.00010	< 0.00010	< 0.00010
Vanadium		mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.00250*	< 0.0050	< 0.0050	< 0.005	< 0.0050	< 0.0050	< 0.0050
Zinc	0.03	mg/L	*0.005*	*0.00323*	*0.0025*	*0.00250*	*0.00250*	*0.00250*	< 0.0050	< 0.0050	< 0.005	< 0.0050	< 0.0050	< 0.0050
WQ07- Dissolved Metals														
Aluminum		mg/L	*0.00523*	*0.0142*	*0.0046*	*0.00440*	*0.00575*	*0.00*	0.00	< 0.0030	0.01	0.00	0.00	< 0.0030
Antimony		mg/L	*0.0005*	*0.00025*	*0.00025*	*0.00025*	*0.00025*	*0.00*	< 0.00050	< 0.00050	< 0.0005	< 0.00050	< 0.00050	< 0.00050
Arsenic	0.005	mg/L	*0.00232*	*0.00389*	*0.00522*	*0.00761*	*0.01172*	*0.01*	0.01	0.01	0.01	0.01	0.01	0.01
Barium		mg/L	*0.01937*	*0.02078*	*0.0211*	*0.02133*	*0.02307*	*0.03*	0.02	0.03	0.02	0.03	0.03	0.03
Beryllium		mg/L	*0.0001*	*0.00005*	*0.00005*	*0.00005*	*0.00005*	*0.00*	< 0.00010	< 0.00010	< 0.0001	< 0.00010	< 0.00010	< 0.00010
Boron		mg/L	*0.05*	*0.025*	*0.025*	*0.02500*	*0.02500*	*0.03*	< 0.050	< 0.050	< 0.05	< 0.050	< 0.050	< 0.050
Cadmium	0.00006	mg/L	*0.00001*	*0.00001*	*0.000005*	*0.00001*	*0.00001*	*0.00*	< 0.000010	< 0.000010	< 0.00001	< 0.000010	< 0.000010	< 0.000010
Calcium (Dissolved)		mg/L	-	*13.8*	*15.67*	*15.33429*	*16.99667*	*18.68*	13.20	16.70	16.70	19.90	24.10	21.50
Chromium		mg/L	*0.001*	*0.0005*	*0.0005*	*0.00050*	*0.00050*	*0.00*	< 0.0010	< 0.0010	< 0.001	< 0.0010	< 0.0010	< 0.0010
Copper	0.002	mg/L	*0.00088*	*0.00122*	*0.00102*	*0.00092*	*0.00097*	*0.00*	0.00	0.00	0.00	0.00	0.00	0.00
Iron	0.3	mg/L	*0.06183*	*0.04648*	*0.041*	*0.04510*	*0.04132*	*0.04*	0.07	0.06	0.03	0.02	0.04	0.03
Lead	0.001	mg/L	*0.0002*	*0.00015*	*0.00010*	*0.00013*	*0.00013*	*0.00*	< 0.00020	< 0.00020	< 0.0002	< 0.00020	< 0.00020	< 0.00020
Lithium		mg/L	*0.002*	*0.001*	*0.0010*	*0.00100*	*0.00100*	*0.00*	< 0.0020	< 0.0020	< 0.002	< 0.0020	< 0.0020	< 0.0020
Magnesium (Dissolved)		mg/L	-	*1.88167*	*2.080*	*2.01286*	*2.37967*	*2.51*	1.91	2.30	2.16	2.71	3.00	2.97
Manganese		mg/L	*0.0022*	*0.0037*	*0.0050*	*0.00649*	*0.01322*	*0.02*	0.06	0.03	0.00	0.00	0.00	0.00
Mercury	0.000026	mg/L	*0.00001*	*0.00001*	*0.000005*	*0.00001*	*0.00001*	*0.00*	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	0.073	mg/L	*0.001*	*0.0005*	*0.0005*	*0.00050*	*0.00050*	*0.00*	< 0.0010	< 0.0010	< 0.001	< 0.0010	< 0.0010	< 0.0010
Nickel	0.025	mg/L	*0.001*	*0.0006*	*0.0005*	*0.00050*	*0.00050*	*0.00*	< 0.0010	< 0.0010	< 0.001	< 0.0010	< 0.0010	< 0.0010
Potassium (Dissolved)		mg/L	-	*1.11333*	*1.243*	*1.25300*	*1.42817*	*1.48*	1.15	1.29	1.34	1.54	1.79	1.74
Selenium	0.001	mg/L	*0.0001*	*0.00005*	*0.00005*	*0.00005*	*0.00005*	*0.00*	< 0.00010	< 0.00010	< 0.0001	< 0.00010	< 0.00010	< 0.00010
Silver	0.0025	mg/L	*0.00002*	*0.00001*	*0.000010*	*0.00001*	*0.00001*	*0.00*	< 0.000020	< 0.000020	< 0.00002	< 0.000020	< 0.000020	< 0.000020
Sodium (Dissolved)		mg/L	-	*3.58*	*4.34*	*4.26857*	*5.40317*	*6.23*	4.51	5.53	5.62	6.66	7.51	7.53
Strontium		mg/L	*0.0643*	*0.07045*	*0.0791*	*0.07876*	*0.08587*	*0.10*	0.07	0.08	0.09	0.11	0.12	0.12
Thallium	0.0008	mg/L	*0.00001*	*0.00001*	*0.000005*	*0.00001*	*0.00001*	*0.00*	< 0.000010	< 0.000010	< 0.00001	< 0.000010	< 0.000010	< 0.000010
Tin		mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.00*	< 0.0050	< 0.0050	< 0.005	< 0.0050	< 0.0050	< 0.0050
Titanium		mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.00*	< 0.0050	< 0.0050	< 0.005	< 0.0050	< 0.0050	< 0.0050
Uranium	0.015	mg/L	*0.0001*	*0.00005*	*0.00005*	*0.00005*	*0.00006*	*0.00*	< 0.00010	< 0.00010	< 0.0001	< 0.00010	< 0.00010	< 0.00010
Vanadium		mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.00*	< 0.0050	< 0.0050	< 0.005	< 0.0050	< 0.0050	< 0.0050
Zinc	0.03	mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.00*	< 0.0050	< 0.0050	< 0.005	< 0.0050	< 0.0050	< 0.0050

		Sample date	9/7/2025					
		Sample type	Lab Blank	Field Blank	Original	Duplicate		
		LAB_SDG	C5B2502	C5B2502	C5B2502	C5B2502	C5B2502	C5B2502
Parameter	**Unit**	**MDL**					**RPD (LB/FB)**	**RPD (N/FD)**
WQ02- Conventional Parameters								
pH	**pH units**	-	-	5.79	7.73	7.87	-	1.79
Dissolved Oxygen	%	-	-	-	110.1	110.1	-	0.00
Turbidity	**NTU**	0.1	0.1	0.1	0.5	0.5	0.00	0.00
Conductivity	**ms/cm**	0.002	0.002	0.002	0.199	0.201	0.00	1.00
Conductivity	**umhos/cm**	-	-	-	-	-	-	-
Hardness, as CaCO3	**mg/L**	0.50	-	0.50	73.6	70.1	-	4.87
Hardness, as CaCO3-D	**mg/L**	0.50	-	0.50	72.4	71.3	-	1.53
Total alkalinity, as Ca	**mg/L**	1.0	1	1.0	45	48	0.00	6.45
Carbonate, as CaCO3	**mg/L**	1.0	-	1.0	1.0	1.0	-	0.00
Bicarbonate, as CaCO	**mg/L**	1.0	-	1.0	45	47	-	4.35
TDS	**mg/L**	10	-	10	95	90	-	5.41
TDS, calculated	**mg/L**	1.0	-	1.0	99	100	-	1.01
TSS	**mg/L**	1	1	1	1	1	0.00	0.00
Total organic carbon	**mg/L**	0.40	0.4	0.40	4.4	4.3	0.00	2.30
Dissolved organic car	**mg/L**	0.40	0.4	0.40	5.2	4.7	0.00	10.10
WQ03- Major Ions								
Chloride	**mg/L**	1.0	1	1.0	23	23	0.00	0.00
Cyanide	**mg/L**	0.00050	0.0005	0.00050	0.00061	0.00062	0.00	1.63
Cyanide (free)	**mg/L**	0.0005	0.0005	0.00088	0.00073	0.00050	**55.07**	**37.40**
Cyanide (WAD)	**mg/L**	0.00050	0.0005	0.00050	0.00050	0.00050	0.00	0.00
Fluoride	**mg/L**	0.10	0.1	0.10	0.10	0.10	0.00	0.00
Silica	**mg/L**	0.05	-	0.14	0.53	0.51	-	3.85
Sulfate	**mg/L**	0.50	0.5	0.50	12	13	0.00	8.00
WQ04- Nutrients and Chlorophyll a								
Ammonia Nitrogen (a	**mg/L**	0.050	0.05	0.050	0.050	0.050	0.00	0.00
Nitrate (as N)	**mg/L**	0.10	0.1	0.10	0.10	0.10	0.00	0.00
Nitrite (as N)	**mg/L**	0.010	0.01	0.010	0.010	0.010	0.00	0.00
Nitrate + nitrite (as N	**mg/L**	0.10	-	0.10	0.10	0.10	-	0.00
Total Kjeldahl nitroge	**mg/L**	0.10	0.1	0.10	0.29	0.28	0.00	3.51
Total phosphorus	**mg/L**	0.020	0.02	0.020	0.020	0.020	0.00	0.00
Orthophosphate (P)	**mg/L**	0.010	0.01	0.010	0.010	0.010	0.00	0.00
WQ06- Total Metals								
Aluminum	**mg/L**	0.0030	0.003	0.0030	0.0075	0.0087	0.00	14.81
Antimony	**mg/L**	0.00050	0.0005	0.00050	0.00050	0.00050	0.00	0.00
Arsenic	**mg/L**	0.00010	0.0001	0.00010	0.0106	0.0105	0.00	0.95
Barium	**mg/L**	0.0010	0.001	0.0010	0.0288	0.0277	0.00	3.89
Beryllium	**mg/L**	0.00010	0.0001	0.00010	0.00010	0.00010	0.00	0.00
Bismuth	**mg/L**	-	-	-	-	-	-	-
Boron	**mg/L**	0.050	0.05	0.050	0.050	0.050	0.00	0.00
Cadmium	**mg/L**	0.000010	0.00001	0.000010	0.000010	0.000010	0.00	0.00
Calcium (total)	**mg/L**	0.050	-	0.050	24.1	22.9	-	5.11
Chromium	**mg/L**	0.0010	0.001	0.0010	0.0010	0.0010	0.00	0.00
Cobalt	**mg/L**	-	-	-	-	-	-	-
Copper	**mg/L**	0.00050	0.0005	0.00050	0.00123	0.00124	0.00	0.81
Iron	**mg/L**	0.010	0.01	0.010	0.099	0.104	0.00	4.93
Lead	**mg/L**	0.00020	0.0002	0.00020	0.00020	0.00020	0.00	0.00
Lithium	**mg/L**	0.0020	0.002	0.0020	0.0020	0.0020	0.00	0.00
Magnesium (total)	**mg/L**	0.050	-	0.050	3.24	3.13	-	3.45
Manganese	**mg/L**	0.0010	0.001	0.0010	0.0044	0.0046	0.00	4.44
Mercury	**mg/L**	0.00001	-	0.00001	0.00001	0.00001	-	0.00
Molybdenum	**mg/L**	0.0010	0.001	0.0010	0.0010	0.0010	0.00	0.00
Nickel	**mg/L**	0.0010	0.001	0.0010	0.0010	0.0010	0.00	0.00
Potassium (total)	**mg/L**	0.050	-	0.050	1.72	1.68	-	2.35

Selenium	**mg/L**	0.00010	0.0001	0.00010	0.00010	0.00010	0.00	0.00
Silicon	**mg/L**	-	-	-	-	-	-	-
Silver	**mg/L**	0.000020	0.00002	0.000020	0.000020	0.000020	0.00	0.00
Sodium (total)	**mg/L**	0.050	-	0.050	8.29	8.10	-	2.32
Strontium	**mg/L**	0.0010	0.001	0.0010	0.124	0.119	0.00	4.12
Thallium	**mg/L**	0.000010	0.00001	0.000010	0.000010	0.000010	0.00	0.00
Tin	**mg/L**	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00
Titanium	**mg/L**	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00
Uranium	**mg/L**	0.00010	0.0001	0.00010	0.00010	0.00010	0.00	0.00
Vanadium	**mg/L**	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00
Zinc	**mg/L**	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00
Zirconium	**mg/L**	-	-	-	-	-	-	-
WQ07- Dissolved Metals								
Aluminum	**mg/L**	0.0030	0.003	0.0030	0.0037	0.0032	0.00	14.49
Antimony	**mg/L**	0.00050	0.0005	0.00050	0.00050	0.00050	0.00	0.00
Arsenic	**mg/L**	0.00010	0.0001	0.00010	0.00873	0.00888	0.00	1.70
Barium	**mg/L**	0.0010	0.001	0.0010	0.0271	0.0275	0.00	1.47
Beryllium	**mg/L**	0.00010	0.0001	0.00010	0.00010	0.00010	0.00	0.00
Bismuth	**mg/L**	-	-	-	-	-	-	-
Boron	**mg/L**	0.050	0.05	0.050	0.050	0.050	0.00	0.00
Cadmium	**mg/L**	0.000010	0.00001	0.000010	0.000010	0.000010	0.00	0.00
Calcium (Dissolved)	**mg/L**	0.050	-	0.050	24.1	23.7	-	1.67
Chromium	**mg/L**	0.0010	0.001	0.0010	0.0010	0.0010	0.00	0.00
Cobalt	**mg/L**	-	-	-	-	-	-	-
Copper	**mg/L**	0.00020	0.0002	0.00020	0.00120	0.00127	0.00	5.67
Iron	**mg/L**	0.0050	0.005	0.0050	0.0374	0.0406	0.00	8.21
Lead	**mg/L**	0.00020	0.0002	0.00020	0.00020	0.00020	0.00	0.00
Lithium	**mg/L**	0.0020	0.002	0.0020	0.0020	0.0020	0.00	0.00
Magnesium (Dissolve	**mg/L**	0.050	-	0.050	3.00	2.96	-	1.34
Manganese	**mg/L**	0.0010	0.001	0.0010	0.0022	0.0021	0.00	4.65
Mercury	**mg/L**	0.00001	-	0.00001	0.00001	0.00001	-	0.00
Molybdenum	**mg/L**	0.0010	0.001	0.0010	0.0010	0.0010	0.00	0.00
Nickel	**mg/L**	0.0010	0.001	0.0010	0.0010	0.0010	0.00	0.00
Potassium (Dissolved	**mg/L**	0.050	-	0.050	1.79	1.79	-	0.00
Selenium	**mg/L**	0.00010	0.0001	0.00010	0.00010	0.00010	0.00	0.00
Silicon	**mg/L**	-	-	-	-	-	-	-
Silver	**mg/L**	0.000020	0.00002	0.000020	0.000020	0.000020	0.00	0.00
Sodium (Dissolved)	**mg/L**	0.050	-	0.050	7.51	7.21	-	4.08
Strontium	**mg/L**	0.0010	0.001	0.0010	0.119	0.119	0.00	0.00
Thallium	**mg/L**	0.000010	0.00001	0.000010	0.000010	0.000010	0.00	0.00
Tin	**mg/L**	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00
Titanium	**mg/L**	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00
Uranium	**mg/L**	0.00010	0.0001	0.00010	0.00010	0.00010	0.00	0.00
Vanadium	**mg/L**	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00
Zinc	**mg/L**	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00
Zirconium	**mg/L**	-	-	-	-	-	-	-
% Exceedance*							0%	0%

Footnotes:

RPD = Relative Percent Difference; MDL: Method Detection Limit

All value "<DL" have been replaced by "DL".

* Although usually consistent, in the rare event that there were two different RDLs for different sampling events, the lower one was used. This may cause artifical 10x MDL exceedances.

Bold values correspond to a RPD higher than 20% and for which concentrations of parent and duplicate samples are within 10x the MDL.

Grey shaded cells correspond to a RPD higher than 20% and for which concentrations of parent and duplicate samples are above 10x the MDL.

Bold & Italic values correspond to a RPD higher than 20% and for which one of the result is within 10X the MDL and the other one exceeds 10x the MDL.

MEL-17	CCME	Sample date	Average						5/31/2025	6/15/2025	7/7/2025	8/5/2025	9/7/2025	10/3/2025
Parameter	Guideline	Unit	2020	2021	2022	2023	2024	2025						
WQ01- Field Measured														
Temperature		°C	*14.67*	*8.98*	*8.7*	*9.70*	*9.62*	*9.72*	4.40	12.70	15.00	12.00	10.30	3.90
pH	6.5 to 9.0	pH units	*7.91*	*7.89*	*7.11*	*7.98*	*7.98*	*7.80*	7.70	8.03	8.14	6.90	8.11	7.92
Conductivity		uS/cm	*293.87*	*249.7*	*429.3*	*312.85*	*377.87*	*522.98*	379.40	341.30	907.00	490.00	497.00	523.20
Dissolved oxygen		mg/L	*39.8*	*27.17*	*10.78*	*9.79*	*11.79*	*11.47*	12.62	11.46	10.03	9.59	10.58	14.55
Dissolved oxygen		%	*99.73*	*85.61*	*105.4*	*97.08*	*102.68*	*100.25*	97.80	108.10	99.80	89.00	94.50	112.30
WQ02- Conventional Parameters														
pH	6.5 to 9.0	pH units	*7.9*	*7.78*	*7.63*	*7.77*	*7.71*	*7.88*	7.72	7.85	7.93	8.03	8.03	7.70
Turbidity		NTU	*0.93*	*0.63*	*0.8*	*0.85*	*0.90*	*0.78*	1.00	0.80	1.00	0.50	0.50	0.90
Conductivity		umhos/cm	*316.67*	*236.67*	*297*	*322.50*	*385.5*	*534.17*	380.00	357.00	919.00	508.00	508.00	533.00
Hardness, as CaCO3		mg/L	*112.7*	*86.43*	*110.1*	*110.51*	*121.62*	*175.00*	116.00	113.00	278.00	168.00	175.00	200.00
Total alkalinity, as CaCO3		mg/L	*59.33*	*50*	*51*	*60.50*	*56.17*	*67.33*	48.00	46.00	81.00	71.00	80.00	78.00
Carbonate, as CaCO3		mg/L	*1*	*0.5*	*0.5*	*0.50*	*0.50*	*0.50*	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1
Bicarbonate, as CaCO3		mg/L	*59*	*49.67*	*51*	*60.13*	*55.83*	*66.83*	48.00	46.00	80.00	70.00	79.00	78.00
TDS		mg/L	*221.67*	*205.83*	*205.83*	*215.63*	*280.00*	*334.17*	205.00	240.00	595.00	315.00	285.00	365.00
TDS, calculated		mg/L	*-*	*140*	*160*	*167.25*	*203.00*	*293.33*	210.00	190.00	510.00	280.00	270.00	300.00
TSS		mg/L	*4*	*4.83*	*2*	*2.75*	*1.33*	*4.58*	6.00	< 1	18.00	1.00	1.00	1.00
Total organic carbon		mg/L	*9.9*	*8.3*	*8.7*	*9.99*	*9.50*	*9.58*	5.40	7.10	13.00	11.00	11.00	10.00
Dissolved organic carbon		mg/L	*9.7*	*8.42*	*8.1*	*9.50*	*9.25*	*9.25*	5.20	7.30	13.00	10.00	10.00	10.00
WQ03- Major Ions														
Chloride	120	mg/L	*44.67*	*30*	*36*	*37.25*	*46.17*	*66.83*	38.00	41.00	130.00	62.00	66.00	64.00
Cyanide		mg/L	*0.005*	*0.0025*	*0.00929*	*0.0008*	*0.0008*	*0.00*	< 0.00050	0.00	0.00	0.00	0.00	0.00
Cyanide (free)	0.005	mg/L	*0.0013*	*0.0025*	*0.0026*	*0.0035*	*0.0017*	*0.00*	0.00	0.00	0.00	0.00	0.00	0.00
Cyanide (WAD)		mg/L	*0.001*	*0.0007*	*0.01054*	*0.0006*	*0.0006*	*0.00*	< 0.00050	0.00	0.00	0.00	< 0.00050	0.00
Silica		mg/L	*2.2*	*1.74*	*2.53*	*1.80*	*1.94*	*1.36*	1.30	0.80	0.14	1.60	1.70	2.60
Sulfate	128	mg/L	*16.17*	*17.75*	*38.4*	*34.88*	*53.17*	*90.83*	72.00	61.00	170.00	81.00	68.00	93.00
WQ04- Nutrients and Chlorophyll a														
Ammonia Nitrogen (as N)		mg/L	*0.3*	*0.03*	*0.085*	*0.04*	*0.03*	*0.048*	0.12	< 0.050	< 0.050	< 0.050	0.07	< 0.05
Unionized Ammonia, calculated internaly		mg/L	*-*	*0.002*	*-*	*-*	*-*	*-*	-	-	-	-	-	-
Nitrate (as N)	13	mg/L	*0.13*	*0.05*	*0.10*	*0.06*	*0.13*	*0.070*	0.17	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
Nitrite (as N)	0.06	mg/L	*0.01*	*0.01*	*0.005*	*0.01*	*0.01*	*0.006*	0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01
Total Kjeldahl nitrogen		mg/L	*0.6*	*0.39*	*0.42*	*0.56*	*0.58*	*0.550*	0.33	0.48	0.82	0.56	0.58	0.53
Total phosphorus		mg/L	*0.02*	*0.01*	*0.016*	*0.01*	*0.01*	*0.010*	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.02
Orthophosphate (P)		mg/L	*0.01*	*0.01*	*0.005*	*0.01*	*0.01*	*0.005*	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01
WQ06- Total Metals														
Aluminum		mg/L	*0.01017*	*0.01065*	*0.0070*	*0.00505*	*0.01358*	*0.01238*	0.03	0.01	0.01	0.00	< 0.0030	0.01
Antimony		mg/L	*0.0005*	*0.00025*	*0.00025*	*0.00025*	*0.00025*	*0.00025*	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0005
Arsenic	0.005	mg/L	*0.00108*	*0.00109*	*0.00114*	*0.00109*	*0.00127*	*0.00261*	0.01	0.00	0.00	0.00	0.00	0.00
Barium		mg/L	*0.03383*	*0.02935*	*0.0280*	*0.03194*	*0.03437*	*0.04140*	0.03	0.04	0.05	0.05	0.04	0.05
Beryllium		mg/L	*0.0001*	*0.00005*	*0.00005*	*0.00005*	*0.00005*	*0.00005*	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.0001
Boron		mg/L	*0.05*	*0.025*	*0.025*	*0.02500*	*0.02500*	*0.02500*	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.05
Cadmium	0.00006	mg/L	*0.00001*	*0.00001*	*0.000008*	*0.00001*	*0.00001*	*0.00001*	0.00	< 0.000010	< 0.000010	< 0.000010	< 0.000010	< 0.00001
Chromium		mg/L	*0.001*	*0.0005*	*0.0005*	*0.00050*	*0.00050*	*0.00050*	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.001
Copper	0.002	mg/L	*0.0012*	*0.00134*	*0.00112*	*0.00103*	*0.00101*	*0.00125*	0.00	0.00	0.00	0.00	0.00	0.00
Iron	0.3	mg/L	*0.315*	*0.498*	*0.236*	*0.21325*	*0.17133*	*0.17833*	0.24	0.22	0.19	0.11	0.11	0.20
Lead	0.001	mg/L	*0.0002*	*0.0001*	*0.00010*	*0.00010*	*0.00010*	*0.00014*	0.00	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002
Lithium		mg/L	*0.00783*	*0.00438*	*0.0045*	*0.00434*	*0.00455*	*0.00612*	0.00	0.00	0.01	0.01	0.01	0.01
Manganese		mg/L	*0.0588*	*0.12482*	*0.0451*	*0.06455*	*0.04860*	*0.03863*	0.07	0.04	0.03	0.02	0.03	0.04
Mercury	0.000026	mg/L	*0.00001*	*0.00001*	*0.000005*	*0.00001*	*0.00001*	*0.00001*	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	0.073	mg/L	*0.001*	*0.0005*	*0.0005*	*0.00050*	*0.00050*	*0.00050*	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.001

Nickel	0.025	mg/L	*0.00203*	*0.00202*	*0.0021*	*0.00190*	*0.00182*	*0.00243*	0.00	0.00	0.00	0.00	0.00	0.00
Selenium	0.001	mg/L	*0.0001*	*0.00005*	*0.00005*	*0.00005*	*0.00005*	*0.00006*	< 0.00010	< 0.00010	0.00	< 0.00010	< 0.00010	< 0.0001
Silver	0.0025	mg/L	*0.00002*	*0.00001*	*0.000010*	*0.00001*	*0.00001*	*0.00001*	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.00002
Strontium		mg/L	*0.31967*	*0.20933*	*0.2420*	*0.25550*	*0.28343*	*0.39783*	0.25	0.27	0.70	0.36	0.36	0.45
Thallium	0.0008	mg/L	*0.00001*	*0.00001*	*0.000005*	*0.00001*	*0.00001*	*0.00001*	< 0.000010	< 0.000010	0.00	< 0.000010	< 0.000010	< 0.00001
Tin		mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.00250*	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005
Titanium		mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.00250*	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005
Uranium	0.015	mg/L	*0.0001*	*0.00008*	*0.00010*	*0.00011*	*0.00011*	*0.00029*	0.00	0.00	0.00	0.00	0.00	0.00
Vanadium		mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.00250*	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005
Zinc	0.03	mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.00250*	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005
WQ07- Dissolved Metals														
Aluminum		mg/L	*0.00337*	*0.0105*	*0.0043*	*0.00195*	*0.00527*	*0.00300*	0.00	0.00	0.01	< 0.0030	< 0.0030	< 0.003
Antimony		mg/L	*0.0005*	*0.00025*	*0.00025*	*0.00025*	*0.00025*	*0.00025*	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0005
Arsenic	0.005	mg/L	*0.00098*	*0.00092*	*0.00104*	*0.00105*	*0.00124*	*0.00228*	0.00	0.00	0.00	0.00	0.00	0.00
Barium		mg/L	*0.03377*	*0.02692*	*0.0276*	*0.03334*	*0.03673*	*0.04207*	0.03	0.04	0.06	0.05	0.04	0.04
Beryllium		mg/L	*0.0001*	*0.00005*	*0.00005*	*0.00005*	*0.00005*	*0.00005*	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.0001
Boron		mg/L	*0.05*	*0.025*	*0.025*	*0.02500*	*0.02500*	*0.02500*	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.05
Cadmium	0.00006	mg/L	*0.00001*	*0.00001*	*0.000005*	*0.00001*	*0.00001*	*0.00001*	< 0.000010	< 0.000010	< 0.000010	< 0.000010	< 0.000010	< 0.00001
Calcium (Dissolved)		mg/L	*38.77*	*29.63*	*36.4*	*38.51*	*42.35*	*56.06667*	38.20	38.20	86.60	57.00	57.10	59.30
Chromium		mg/L	*0.001*	*0.0005*	*0.0005*	*0.00050*	*0.00050*	*0.00050*	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.001
Copper	0.002	mg/L	*0.00113*	*0.0013*	*0.00110*	*0.00102*	*0.00110*	*0.00135*	0.00	0.00	0.00	0.00	0.00	0.00
Iron	0.3	mg/L	*0.16933*	*0.195*	*0.150*	*0.12479*	*0.10277*	*0.12017*	0.12	0.15	0.20	0.08	0.07	0.11
Lead	0.001	mg/L	*0.0002*	*0.0001*	*0.00010*	*0.00010*	*0.00010*	*0.00010*	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002
Lithium		mg/L	*0.00757*	*0.0046*	*0.0044*	*0.00451*	*0.00527*	*0.00100*	0.00	0.00	0.01	0.01	0.01	0.01
Magnesium (Dissolved)		mg/L	*4.44*	*3.43*	*4.45*	*4.73*	*6.21*	*8.61000*	5.99	5.62	14.80	8.37	8.28	8.60
Manganese		mg/L	*0.03573*	*0.04425*	*0.0403*	*0.05184*	*0.03883*	*0.03942*	0.07	0.03	0.06	0.02	0.02	0.04
Mercury	0.000026	mg/L	*0.00001*	*0.00057*	*0.000005*	*0.00001*	*0.00001*	*0.00001*	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	0.073	mg/L	*0.001*	*0.0005*	*0.0005*	*0.00050*	*0.00050*	*0.00050*	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.001
Nickel	0.025	mg/L	*0.00197*	*0.00173*	*0.0019*	*0.00181*	*0.00193*	*0.00250*	0.00	0.00	0.00	0.00	0.00	0.00
Potassium (Dissolved)		mg/L	*2.67*	*1.87*	*2.17*	*2.44*	*2.82*	*3.97000*	3.16	2.75	7.33	3.30	3.61	3.67
Selenium	0.001	mg/L	*0.0001*	*0.00005*	*0.00005*	*0.00005*	*0.00005*	*0.00007*	0.00	< 0.00010	0.00	< 0.00010	< 0.00010	< 0.0001
Silver	0.0025	mg/L	*0.00002*	*0.00001*	*0.000010*	*0.00001*	*0.00001*	*0.00001*	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.00002
Sodium (Dissolved)		mg/L	*11.3*	*8.75*	*11.07*	*12.34*	*16.79*	*25.03333*	18.70	17.10	46.40	23.00	23.30	21.70
Strontium		mg/L	*0.324*	*0.20933*	*0.2522*	*0.26738*	*0.30267*	*0.41317*	0.22	0.24	0.83	0.40	0.36	0.43
Thallium	0.0008	mg/L	*0.00001*	*0.00001*	*0.000005*	*0.00001*	*0.00001*	*0.00001*	< 0.000010	< 0.000010	0.00	< 0.000010	< 0.000010	< 0.00001
Tin		mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.00250*	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005
Titanium		mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.00250*	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005
Uranium	0.015	mg/L	*0.0001*	*0.00006*	*0.00010*	*0.00012*	*0.00012*	*0.00005*	0.00	0.00	0.00	0.00	0.00	0.00
Vanadium		mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.00250*	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005
Zinc	0.03	mg/L	*0.005*	*0.00367*	*0.0025*	*0.00250*	*0.00250*	*0.00250*	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005

MEL-18	CCME	Sample date	*Average*						5/31/2025	6/15/2025	7/7/2025	8/5/2025	9/7/2025	10/3/2025
Parameter	**Guideline**	**Unit**	***2020***	***2021***	***2022***	***2023***	***2024***	***2025***						
WQ01- Field Measured														
Temperature		°C	*14.4*	*8.15*	*9.8*	*9.74*	*8.92*	*8.88*	6.20	5.00	14.90	12.40	10.90	3.90
pH	6.5 to 9.0	pH units	*7.84*	*7.81*	*7.54*	*7.89*	*7.75*	*7.58*	7.68	7.23	7.59	7.37	7.81	7.79
Conductivity		uS/cm	*142.2*	*416.5*	*204.9*	*186.49*	*225.42*	*248.13*	238.90	201.10	221.80	230.50	255.80	340.70
Dissolved oxygen		mg/L	*40.17*	*29.86*	*10.27*	*10.15*	*11.54*	*12.48*	14.33	13.41	10.06	7.98	11.89	17.22
Dissolved oxygen		%	*75.18*	*85.44*	*86.9*	*101.71*	*99.67*	*90.00*	116.40	105.10	99.70	74.70	11.89	132.20
WQ02- Conventional Parameters														
pH	6.5 to 9.0	pH units	*7.54*	*7.6*	*7.57*	*7.68*	*7.66*	*7.72*	7.80	7.68	7.62	7.78	7.76	7.69
Turbidity		NTU	*0.53*	*0.39*	*0.5*	*0.59*	*0.73*	*0.83*	1.60	0.60	1.00	0.40	0.70	0.70
Conductivity		umhos/cm	*156.67*	*156.67*	*162*	*195.71*	*231.83*	*250.33*	227.00	211.00	219.00	240.00	261.00	344.00
Hardness, as CaCO3		mg/L	*57.17*	*64.87*	*61.3*	*65.17*	*73.48*	*89.98*	77.10	74.10	77.00	85.30	95.40	131.00
Total alkalinity, as CaCO3		mg/L	*30.67*	*34.67*	*38*	*43.71*	*47.50*	*47.67*	39.00	38.00	44.00	58.00	51.00	56.00
Carbonate, as CaCO3		mg/L	*1*	*0.5*	*0.5*	*0.50*	*0.50*	*0.50*	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0
Bicarbonate, as CaCO3		mg/L	*30.67*	*34.5*	*38*	*43.14*	*47.33*	*47.50*	39.00	38.00	44.00	58.00	50.00	56.00
TDS		mg/L	*110*	*122.5*	*134*	*120.00*	*160.00*	*155.00*	115.00	150.00	150.00	155.00	130.00	230.00
TDS, calculated		mg/L	*-*	*88.67*	*80*	*96.29*	*115.33*	*126.67*	110.00	100.00	110.00	130.00	130.00	180.00
TSS		mg/L	*3.33*	*2.08*	*1*	*6.71*	*2.58*	*1.67*	2.00	2.00	2.00	2.00	1.00	1.00
Total organic carbon		mg/L	*3.97*	*4.05*	*4.2*	*4.41*	*4.75*	*4.32*	3.80	3.60	4.20	4.40	4.50	5.40
Dissolved organic carbon		mg/L	*3.7*	*4.03*	*4.0*	*4.26*	*4.43*	*4.18*	3.40	3.70	3.90	4.20	4.60	5.30
WQ03- Major Ions														
Chloride	120	mg/L	*23.33*	*21.17*	*21.3*	*24.57*	*29.33*	*33.00*	28.00	27.00	29.00	30.00	36.00	48.00
Cyanide		mg/L	*0.005*	*0.0025*	*0.00073*	*0.0004*	*0.0005*	*0.00*	0.00	< 0.00050	< 0.0005	0.00	0.00	0.00
Cyanide (free)	0.005	mg/L	*0.0011*	*0.0017*	*0.0022*	*0.0044*	*0.0014*	*0.00*	0.00	< 0.00050	0.00	0.00	0.00	< 0.00050
Cyanide (WAD)		mg/L	*0.001*	*0.0008*	*0.00062*	*0.0004*	*0.0005*	*0.00*	< 0.00050	< 0.00050	< 0.0005	0.00	< 0.00050	< 0.00050
Silica		mg/L	*0.74*	*0.45*	*0.524*	*0.70*	*0.89*	*0.78*	1.20	1.10	0.39	0.36	0.65	1.00
Sulfate	128	mg/L	*5.8*	*7.48*	*7.19*	*9.13*	*15.35*	*22.50*	23.00	17.00	19.00	19.00	20.00	37.00
WQ04- Nutrients and Chlorophyll a														
Ammonia Nitrogen (as N)		mg/L	*0.06*	*0.03*	*0.034*	*0.04*	*0.06*	*0.06*	0.16	0.10	< 0.05	< 0.050	< 0.050	< 0.050
Nitrate (as N)	13	mg/L	*0.1*	*0.05*	*0.05*	*0.05*	*0.11*	*0.05*	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 0.10
Nitrite (as N)	0.06	mg/L	*0.01*	*0.01*	*0.005*	*0.01*	*0.01*	*0.01*	< 0.010	< 0.010	< 0.01	< 0.010	< 0.010	< 0.010
Total Kjeldahl nitrogen		mg/L	*0.25*	*0.21*	*0.22*	*0.33*	*0.37*	*0.25*	0.25	0.19	0.19	0.30	0.28	0.28
Total phosphorus		mg/L	*0.02*	*0.01*	*0.016*	*0.02*	*0.01*	*0.01*	< 0.020	< 0.020	< 0.02	< 0.020	< 0.020	< 0.020
Orthophosphate (P)		mg/L	*0.01*	*0.01*	*0.005*	*0.01*	*0.01*	*0.01*	< 0.010	< 0.010	< 0.01	< 0.010	< 0.010	< 0.010
WQ06- Total Metals														
Aluminum		mg/L	*0.01003*	*0.0107*	*0.0082*	*0.01881*	*0.03202*	*0.01388*	0.04	0.01	0.02	0.00	0.00	0.00
Antimony		mg/L	*0.0005*	*0.00025*	*0.00025*	*0.00025*	*0.00025*	*0.00025*	< 0.00050	< 0.00050	< 0.0005	< 0.00050	< 0.00050	< 0.00050
Arsenic	0.005	mg/L	*0.00274*	*0.00209*	*0.00269*	*0.00498*	*0.00521*	*0.00915*	0.03	0.01	0.00	0.00	0.00	0.00
Barium		mg/L	*0.0202*	*0.01895*	*0.0156*	*0.01831*	*0.02028*	*0.02313*	0.02	0.02	0.02	0.02	0.02	0.03
Beryllium		mg/L	*0.0001*	*0.00005*	*0.00005*	*0.00005*	*0.00005*	*0.00005*	< 0.00010	< 0.00010	< 0.0001	< 0.00010	< 0.00010	< 0.00010
Boron		mg/L	*0.05*	*0.025*	*0.025*	*0.02500*	*0.02500*	*0.02500*	< 0.050	< 0.050	< 0.05	< 0.050	< 0.050	< 0.050
Cadmium	0.00006	mg/L	*0.00001*	*0.00001*	*0.000005*	*0.00001*	*0.00001*	*0.00001*	< 0.000010	< 0.000010	< 0.00001	< 0.000010	< 0.000010	< 0.000010
Chromium		mg/L	*0.001*	*0.0005*	*0.0005*	*0.00050*	*0.00050*	*0.00050*	< 0.0010	< 0.0010	< 0.001	< 0.0010	< 0.0010	< 0.0010
Copper	0.002	mg/L	*0.00084*	*0.00098*	*0.00087*	*0.00093*	*0.00085*	*0.00086*	0.00	0.00	0.00	0.00	0.00	0.00
Iron	0.3	mg/L	*0.246*	*0.12883*	*0.150*	*0.20429*	*0.11133*	*0.12100*	0.27	0.14	0.14	0.05	0.06	0.08
Lead	0.001	mg/L	*0.0002*	*0.00014*	*0.00010*	*0.00021*	*0.00019*	*0.00027*	0.00	< 0.00020	< 0.0002	< 0.00020	< 0.00020	< 0.00020
Lithium		mg/L	*0.0144*	*0.00862*	*0.0078*	*0.00820*	*0.00855*	*0.00842*	0.01	0.01	0.01	0.01	0.01	0.01
Manganese		mg/L	*0.06147*	*0.01595*	*0.0140*	*0.02287*	*0.01908*	*0.01908*	0.05	0.02	0.01	0.01	0.01	0.01
Mercury	0.000026	mg/L	*0.00001*	*0.00001*	*0.000005*	*0.00001*	*0.00001*	*0.00001*	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	0.073	mg/L	*0.001*	*0.0005*	*0.0005*	*0.00050*	*0.00050*	*0.00050*	< 0.0010	< 0.0010	< 0.001	< 0.0010	< 0.0010	< 0.0010
Nickel	0.025	mg/L	*0.0011*	*0.00075*	*0.0005*	*0.00066*	*0.00058*	*0.00070*	0.00	< 0.0010	< 0.001	< 0.0010	< 0.0010	0.00

Selenium	0.001	mg/L	*0.0001*	*0.00005*	*0.00005*	*0.00005*	*0.00005*	*0.00005*	< 0.00010	< 0.00010	< 0.0001	< 0.00010	< 0.00010	< 0.00010
Silver	0.0025	mg/L	*0.00002*	*0.00001*	*0.000010*	*0.00001*	*0.00001*	*0.00001*	< 0.000020	< 0.000020	< 0.00002	< 0.000020	< 0.000020	< 0.000020
Strontium		mg/L	*0.14933*	*0.17083*	*0.1439*	*0.15986*	*0.18038*	*0.21467*	0.22	0.20	0.17	0.19	0.21	0.31
Thallium	0.0008	mg/L	*0.00001*	*0.00001*	*0.000005*	*0.00001*	*0.00001*	*0.00001*	< 0.000010	< 0.000010	< 0.00001	< 0.000010	< 0.000010	< 0.000010
Tin		mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.00250*	< 0.0050	< 0.0050	< 0.005	< 0.0050	< 0.0050	< 0.0050
Titanium		mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.00250*	< 0.0050	< 0.0050	< 0.005	< 0.0050	< 0.0050	< 0.0050
Uranium	0.015	mg/L	*0.0001*	*0.00005*	*0.00005*	*0.00005*	*0.00005*	*0.00005*	0.00	< 0.00010	< 0.0001	< 0.00010	< 0.00010	0.00
Vanadium		mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.00250*	< 0.0050	< 0.0050	< 0.005	< 0.0050	< 0.0050	< 0.0050
Zinc	0.03	mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.00250*	< 0.0050	< 0.0050	< 0.005	< 0.0050	< 0.0050	< 0.0050
WQ07- Dissolved Metals														
Aluminum		mg/L	*0.00597*	*0.00597*	*0.0032*	*0.00373*	*0.00237*	*0.00150*	< 0.0030	< 0.0030	< 0.003	< 0.0030	< 0.0030	< 0.0030
Antimony		mg/L	*0.0005*	*0.00025*	*0.00025*	*0.00025*	*0.00025*	*0.00025*	< 0.00050	< 0.00050	< 0.0005	< 0.00050	< 0.00050	< 0.00050
Arsenic	0.005	mg/L	*0.00197*	*0.00175*	*0.00207*	*0.00319*	*0.00436*	*0.00578*	0.02	0.00	0.00	0.00	0.00	0.00
Barium		mg/L	*0.01987*	*0.01615*	*0.0148*	*0.01966*	*0.02188*	*0.02278*	0.02	0.02	0.02	0.02	0.02	0.03
Beryllium		mg/L	*0.0001*	*0.00005*	*0.00005*	*0.00005*	*0.00005*	*0.00005*	< 0.00010	< 0.00010	< 0.0001	< 0.00010	< 0.00010	< 0.00010
Boron		mg/L	*0.05*	*0.025*	*0.025*	*0.02500*	*0.02500*	*0.02500*	< 0.050	< 0.050	< 0.05	< 0.050	< 0.050	< 0.050
Cadmium	0.00006	mg/L	*0.00001*	*0.00001*	*0.000005*	*0.00001*	*0.00001*	*0.00001*	< 0.000010	< 0.000010	< 0.00001	< 0.000010	< 0.000010	< 0.000010
Calcium (Dissolved)		mg/L	-	*18.73*	*19.7*	*23.77*	*26.48*	*28.78333*	26.70	24.20	23.00	27.90	31.40	39.50
Chromium		mg/L	*0.001*	*0.0005*	*0.0005*	*0.00050*	*0.00050*	*0.00050*	< 0.0010	< 0.0010	< 0.001	< 0.0010	< 0.0010	< 0.0010
Copper	0.002	mg/L	*0.00067*	*0.00078*	*0.00085*	*0.00074*	*0.00080*	*0.00085*	0.00	0.00	0.00	0.00	0.00	0.00
Iron	0.3	mg/L	*0.1415*	*0.05253*	*0.0637*	*0.04864*	*0.04167*	*0.03738*	0.06	0.06	0.04	0.01	0.02	0.03
Lead	0.001	mg/L	*0.0002*	*0.0001*	*0.00010*	*0.00010*	*0.00010*	*0.00012*	0.00	< 0.00020	< 0.0002	< 0.00020	< 0.00020	< 0.00020
Lithium		mg/L	*0.01493*	*0.00907*	*0.0075*	*0.00927*	*0.00913*	*0.00835*	0.01	0.01	0.01	0.01	0.01	0.01
Magnesium (Dissolved)		mg/L	-	*2.4*	*2.524*	*3.04*	*3.72*	*3.74167*	2.77	3.26	2.95	3.97	4.21	5.29
Manganese		mg/L	*0.04593*	*0.0069*	*0.010*	*0.00971*	*0.01233*	*0.01385*	0.05	0.02	0.00	0.00	0.00	0.01
Mercury	0.000026	mg/L	*0.00001*	*0.00001*	*0.000005*	*0.00001*	*0.00001*	*0.00001*	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	0.073	mg/L	*0.001*	*0.0005*	*0.0005*	*0.00050*	*0.00050*	*0.00050*	< 0.0010	< 0.0010	< 0.001	< 0.0010	< 0.0010	< 0.0010
Nickel	0.025	mg/L	*0.00107*	*0.00058*	*0.0005*	*0.00057*	*0.00062*	*0.00067*	0.00	0.00	< 0.001	< 0.0010	< 0.0010	< 0.0010
Potassium (Dissolved)		mg/L	-	*1.19*	*1.146*	*1.46*	*1.74*	*1.63667*	1.41	1.46	1.41	1.68	1.83	2.03
Selenium	0.001	mg/L	*0.0001*	*0.00005*	*0.00005*	*0.00005*	*0.00005*	*0.00005*	< 0.00010	< 0.00010	< 0.0001	< 0.00010	< 0.00010	< 0.00010
Silver	0.0025	mg/L	*0.00002*	*0.00001*	*0.000010*	*0.00001*	*0.00001*	*0.00001*	< 0.000020	< 0.000020	< 0.00002	< 0.000020	< 0.000020	< 0.000020
Sodium (Dissolved)		mg/L	-	*4.82*	*5.09*	*6.74*	*9.04*	*8.54000*	7.16	7.41	7.78	8.86	9.73	10.30
Strontium		mg/L	*0.14927*	*0.15133*	*0.1450*	*0.17643*	*0.19240*	*0.20417*	0.18	0.17	0.18	0.20	0.20	0.29
Thallium	0.0008	mg/L	*0.00001*	*0.00001*	*0.000005*	*0.00001*	*0.00001*	*0.00001*	< 0.000010	< 0.000010	< 0.00001	< 0.000010	< 0.000010	< 0.000010
Tin		mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.00250*	< 0.0050	< 0.0050	< 0.005	< 0.0050	< 0.0050	< 0.0050
Titanium		mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.00250*	< 0.0050	< 0.0050	< 0.005	< 0.0050	< 0.0050	< 0.0050
Uranium	0.015	mg/L	*0.0001*	*0.00005*	*0.00005*	*0.00005*	*0.00006*	*0.00005*	0.00	< 0.00010	< 0.0001	< 0.00010	< 0.00010	0.00
Vanadium		mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.00250*	< 0.0050	< 0.0050	< 0.005	< 0.0050	< 0.0050	< 0.0050
Zinc	0.03	mg/L	*0.005*	*0.0025*	*0.0025*	*0.00250*	*0.00250*	*0.00250*	< 0.0050	< 0.0050	< 0.005	< 0.0050	< 0.0050	< 0.0050

		Sample date	10/3/2025					
		Sample type	Lab Blank	Field Blank	Original	Duplicate		
		LAB_SDG	C5C6793	C5C6793	C5C6793	C5C6793	C5C6793	C5C6793
Parameter	Unit	MDL					RPD (LB/FB)	RPD (N/FD)
WQ02- Conventional Parameters								
pH	**pH units**	-	-	6.64	7.69	7.70	-	0.13
Dissolved Oxygen	%	-	-	-	132.2	132.2	-	0.00
Turbidity	**NTU**	0.1	0.1	0.1	0.7	0.8	0.00	13.33
Conductivity	**ms/cm**	0.002	0.002	0.002	0.344	0.344	0.00	0.00
Conductivity	**umhos/cm**	-	-	-	-	-	-	-
Hardness, as CaCO3	**mg/L**	0.5	-	0.50	131	127	-	3.10
Hardness, as CaCO3-D	**mg/L**	0.5	-	0.50	121	120	-	0.83
Total alkalinity, as Ca	**mg/L**	1	1	1.8	56	56	**57.14**	0.00
Carbonate, as CaCO3	**mg/L**	1	-	1.0	1.0	1.0	-	0.00
Bicarbonate, as CaCO	**mg/L**	1	-	1.8	56	56	-	0.00
TDS	**mg/L**	10	10	10	230	210	0.00	9.09
TDS, calculated	**mg/L**	1	-	2.0	180	180	-	0.00
TSS	**mg/L**	1	1	1	1	1	0.00	0.00
Total organic carbon	**mg/L**	0.4	0.4	0.40	5.4	5.5	0.00	1.83
Dissolved organic car	**mg/L**	0.4	0.4	0.40	5.3	5.2	0.00	1.90
WQ03- Major Ions								
Chloride	**mg/L**	1.0	1	1.0	48	48	0.00	0.00
Cyanide	**mg/L**	0.00050	0.0005	0.00050	0.00056	0.00055	0.00	1.80
Cyanide (free)	**mg/L**	0.00050	0.0005	0.00050	0.00050	0.00050	0.00	0.00
Cyanide (WAD)	**mg/L**	0.00050	0.0005	0.00050	0.00050	0.00050	0.00	0.00
Fluoride	**mg/L**	0.10	0.1	0.10	0.10	0.10	0.00	0.00
Silica	**mg/L**	0.050	-	0.050	1.0	1.0	-	0.00
Sulfate	**mg/L**	0.5	0.5	0.57	37	37	13.08	0.00
WQ04- Nutrients and Chlorophyll a								
Ammonia Nitrogen (a	**mg/L**	0.050	0.05	0.050	0.050	0.050	0.00	0.00
Nitrate (as N)	**mg/L**	0.10	0.1	0.10	0.10	0.10	0.00	0.00
Nitrite (as N)	**mg/L**	0.010	0.01	0.010	0.010	0.010	0.00	0.00
Nitrate + nitrite (as N	**mg/L**	0.10	-	0.10	0.10	0.10	-	0.00
Total Kjeldahl nitroge	**mg/L**	0.10	0.1	0.10	0.28	0.29	0.00	3.51
Total phosphorus	**mg/L**	0.020	0.02	0.020	0.020	0.020	0.00	0.00
Orthophosphate (P)	**mg/L**	0.010	0.01	0.010	0.010	0.010	0.00	0.00
WQ06- Total Metals								
Aluminum	**mg/L**	0.0030	0.003	0.0030	0.0046	0.0043	0.00	6.74
Antimony	**mg/L**	0.00050	0.0005	0.00050	0.00050	0.00050	0.00	0.00
Arsenic	**mg/L**	0.00010	0.0001	0.00010	0.00401	0.00379	0.00	5.64
Barium	**mg/L**	0.0010	0.001	0.0010	0.0282	0.0272	0.00	3.61
Beryllium	**mg/L**	0.00010	0.0001	0.00010	0.00010	0.00010	0.00	0.00
Bismuth	**mg/L**	-	-	-	-	-	-	-
Boron	**mg/L**	0.050	0.05	0.050	0.050	0.050	0.00	0.00
Cadmium	**mg/L**	0.000010	0.00001	0.000010	0.000010	0.000010	0.00	0.00
Calcium (total)	**mg/L**	0.050	-	0.050	42.8	41.7	-	2.60
Chromium	**mg/L**	0.0010	0.001	0.0010	0.0010	0.0010	0.00	0.00
Cobalt	**mg/L**	-	-	-	-	-	-	-
Copper	**mg/L**	0.00050	0.0005	0.00050	0.00095	0.00085	0.00	11.11
Iron	**mg/L**	0.010	0.01	0.010	0.079	0.076	0.00	3.87
Lead	**mg/L**	0.00020	0.0002	0.00020	0.00020	0.00020	0.00	0.00
Lithium	**mg/L**	0.0020	0.002	0.0020	0.0118	0.0112	0.00	5.22
Magnesium (total)	**mg/L**	0.050	-	0.050	5.83	5.50	-	5.83
Manganese	**mg/L**	0.0010	0.001	0.0010	0.0113	0.0109	0.00	3.60
Mercury	**mg/L**	0.00001	0.00001	0.00001	0.00001	0.00001	0.00	0.00
Molybdenum	**mg/L**	0.0010	0.001	0.0010	0.0010	0.0010	0.00	0.00
Nickel	**mg/L**	0.0010	0.001	0.0010	0.0011	0.0010	0.00	9.52
Potassium (total)	**mg/L**	0.050	-	0.050	2.11	2.00	-	5.35

Selenium	**mg/L**	0.00010	0.0001	0.00010	0.00010	0.00010	0.00	0.00
Silicon	**mg/L**	-	-	-	-	-	-	-
Silver	**mg/L**	0.000020	0.00002	0.000020	0.000020	0.000020	0.00	0.00
Sodium (total)	**mg/L**	0.050	-	0.050	11.6	11.1	-	4.41
Strontium	**mg/L**	0.0010	0.001	0.0010	0.305	0.291	0.00	4.70
Thallium	**mg/L**	0.000010	0.00001	0.000010	0.000010	0.000010	0.00	0.00
Tin	**mg/L**	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00
Titanium	**mg/L**	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00
Uranium	**mg/L**	0.00010	0.0001	0.00010	0.00011	0.00011	0.00	0.00
Vanadium	**mg/L**	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00
Zinc	**mg/L**	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00
Zirconium	**mg/L**	-	-	-	-	-	-	-
WQ07- Dissolved Metals								
Aluminum	**mg/L**	0.0030	0.003	0.0030	0.0030	0.0030	0.00	0.00
Antimony	**mg/L**	0.00050	0.0005	0.00050	0.00050	0.00050	0.00	0.00
Arsenic	**mg/L**	0.00010	0.0001	0.00010	0.00327	0.00324	0.00	0.92
Barium	**mg/L**	0.0010	0.001	0.0010	0.0279	0.0279	0.00	0.00
Beryllium	**mg/L**	0.00010	0.0001	0.00010	0.00010	0.00010	0.00	0.00
Bismuth	**mg/L**	-	-	-	-	-	-	-
Boron	**mg/L**	0.050	0.05	0.050	0.050	0.050	0.00	0.00
Cadmium	**mg/L**	0.000010	0.00001	0.000010	0.000010	0.000010	0.00	0.00
Calcium (Dissolved)	**mg/L**	0.050	-	0.050	39.5	39.2	-	0.76
Chromium	**mg/L**	0.0010	0.001	0.0010	0.0010	0.0010	0.00	0.00
Cobalt	**mg/L**	-	-	-	-	-	-	-
Copper	**mg/L**	0.00020	0.0002	0.00020	0.00081	0.00082	0.00	1.23
Iron	**mg/L**	0.0050	0.005	0.0050	0.0276	0.0273	0.00	1.09
Lead	**mg/L**	0.00020	0.0002	0.00020	0.00020	0.00020	0.00	0.00
Lithium	**mg/L**	0.0020	0.002	0.0020	0.0113	0.0113	0.00	0.00
Magnesium (Dissolve	**mg/L**	0.050	-	0.050	5.29	5.35	-	1.13
Manganese	**mg/L**	0.0010	0.001	0.0010	0.0053	0.0053	0.00	0.00
Mercury	**mg/L**	0.00001	0.00001	0.00001	0.00001	0.00001	0.00	0.00
Molybdenum	**mg/L**	0.0010	0.001	0.0010	0.0010	0.0010	0.00	0.00
Nickel	**mg/L**	0.0010	0.001	0.0010	0.0010	0.0010	0.00	0.00
Potassium (Dissolved	**mg/L**	0.050	-	0.050	2.03	2.05	-	0.98
Selenium	**mg/L**	0.00010	0.0001	0.00010	0.00010	0.00010	0.00	0.00
Silicon	**mg/L**	-	-	-	-	-	-	-
Silver	**mg/L**	0.000020	0.00002	0.000020	0.000020	0.000020	0.00	0.00
Sodium (Dissolved)	**mg/L**	0.050	-	0.050	10.3	10.9	-	5.66
Strontium	**mg/L**	0.0010	0.001	0.0010	0.288	0.283	0.00	1.75
Thallium	**mg/L**	0.000010	0.00001	0.000010	0.000010	0.000010	0.00	0.00
Tin	**mg/L**	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00
Titanium	**mg/L**	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00
Uranium	**mg/L**	0.00010	0.0001	0.00010	0.00012	0.00012	0.00	0.00
Vanadium	**mg/L**	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00
Zinc	**mg/L**	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00
Zirconium	**mg/L**	-	-	-	-	-	-	-
% Exceedance*							0%	0%

Footnotes:

RPD = Relative Percent Difference; MDL: Method Detection Limit

All value "<DL" have been replaced by "DL".

* Although usually consistent, in the rare event that there were two different RDLs for different sampling events, the lower one was used. This may cause artifical 10x MDL exceedances.

Bold values correspond to a RPD higher than 20% and for which concentrations of parent and duplicate samples are within 10x the MDL.

Grey shaded cells correspond to a RPD higher than 20% and for which concentrations of parent and duplicate samples are above 10x the MDL.

Bold & Italic values correspond to a RPD higher than 20% and for which one of the result is within 10X the MDL and the other one exceeds 10x the MDL.

MEL-19	CCME	Sample date	Average				5/31/2025	6/15/2025	7/7/2025	8/3/2025	9/3/2025	10/2/2025
Parameter	Guideline	Unit	2022	2023	2024	2025						
WQ01- Field Measured												
Temperature		°C	*10.8*	*8.4*	*6.5*	*8.00*	1.30	1.60	17.10	12.20	10.30	5.50
pH	6.5 to 9.0	pH units	*7.88*	*8.21*	*7.65*	*7.93*	7.66	7.85	7.87	7.95	8.06	8.18
Conductivity		uS/cm	*4061*	*3,399*	*2,362*	*1936.37*	443.20	824.00	1143.00	1970.00	2482.00	4756.00
Dissolved oxygen		mg/L	*9.90*	*9.84*	*11.82*	*11.11*	11.50	13.03	8.20	10.78	11.52	11.65
Dissolved oxygen		%	*86.7*	*92.7*	*95.7*	*93.33*	82.00	93.50	85.70	101.10	103.70	94.00
WQ02- Conventional Parameters												
pH	6.5 to 9.0	pH units	*7.98*	*7.88*	*7.86*	*7.83*	7.78	7.73	7.66	8.04	7.89	7.90
Turbidity		NTU	*14.8*	*2.5*	*4.6*	*3.80*	4.20	5.10	4.10	1.50	0.20	7.70
Hardness, as CaCO3		mg/L	*594*	*673*	*604*	*383.17*	87.00	154.00	216.00	365.00	492.00	985.00
Total alkalinity, as CaCO3		mg/L	*111*	*94*	*85*	*70.00*	52.00	41.00	44.00	76.00	87.00	120.00
TDS		mg/L	*1710*	*2,144*	*1,908*	*1184.17*	200.00	485.00	650.00	1160.00	1510.00	3100.00
TDS, calculated		mg/L	*1588*	*1,974*	*1,640*	*1130.00*	230.00	440.00	610.00	1100.00	1500.00	2900.00
TSS		mg/L	*11*	*10*	*7*	*8.17*	17.00	6.00	7.00	3.00	3.00	13.00
WQ03- Major Ions												
Chloride	120	mg/L	*618*	*801*	*604*	*414.67*	68.00	160.00	220.00	380.00	560.00	1100.00
Cyanide		mg/L	*0.00426*	*0.00196*	*0.00242*	*0.00*	0.00	0.00	0.00	0.00	0.00	0.00
Fluoride		mg/L	*0.19*	*0.13*	*0.13*	*0.05*	< 0.10	< 0.10	< 0.10	< 0.10	0.16	0.19
Silica		mg/L	*5.1*	*2.12*	*2.23*	*0.95*	0.97	0.96	0.10	1.20	0.89	1.60
Sulfate	128	mg/L	*328*	*387.3*	*380.3*	*271.67*	50.00	100.00	150.00	270.00	340.00	720.00
WQ04- Nutrients and Chlorophyll a												
Ammonia Nitrogen (as N)		mg/L	*2.8*	*1.2*	*1.0*	*0.262*	0.44	0.49	0.25	0.17	0.06	0.16
Nitrate (as N)	13	mg/L	*5.62*	*6.37*	*7.61*	*6.470*	1.08	2.46	3.19	6.60	8.49	17.00
Nitrite (as N)	0.06	mg/L	*0.236*	*0.141*	*0.062*	*0.026*	< 0.010	0.02	0.03	0.04	0.03	0.03
Total phosphorus		mg/L	*0.030*	*0.012*	*0.017*	*0.010*	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	0.03
Orthophosphate (P)		mg/L	*0.008*	*0.005*	*0.005*	*0.005*	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
WQ06- Total Metals												
Aluminum		mg/L	*0.4209*	*0.2084*	*0.1181*	*0.1221*	0.25	0.13	0.09	0.05	0.02	0.20
Arsenic	0.005	mg/L	*0.0228*	*0.0128*	*0.0114*	*0.0113*	0.01	0.01	0.01	0.01	0.01	0.01
Barium		mg/L	*0.0782*	*0.0628*	*0.0491*	*0.0305*	0.01	0.01	0.02	0.03	0.04	0.07
Cadmium	0.00006	mg/L	*0.000053*	*0.000069*	*0.000048*	*0.0000*	0.00	0.00	0.00	0.00	0.00	0.00
Chromium		mg/L	*0.0014*	*0.0012*	*0.0009*	*0.0005*	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0020
Copper	0.002	mg/L	*0.00776*	*0.00455*	*0.00411*	*0.0030*	0.00	0.00	0.00	0.00	0.00	0.01
Iron	0.3	mg/L	*0.656*	*0.347*	*0.200*	*0.2203*	0.54	0.24	0.15	0.08	0.02	0.30
Lead	0.001	mg/L	*0.00080*	*0.00053*	*0.00055*	*0.0005*	0.00	0.00	0.00	0.00	< 0.00020	0.00
Manganese		mg/L	*0.1158*	*0.1229*	*0.1445*	*0.0869*	0.07	0.10	0.10	0.07	0.04	0.15
Mercury	0.000026	mg/L	*0.000005*	*0.000005*	*0.000005*	*0.0000*	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	0.073	mg/L	*0.0050*	*0.0035*	*0.0026*	*0.0024*	0.00	0.00	0.00	0.00	0.00	0.00
Nickel	0.025	mg/L	*0.0370*	*0.0410*	*0.0347*	*0.0219*	0.01	0.01	0.01	0.02	0.03	0.05
Selenium	0.001	mg/L	*0.00082*	*0.00084*	*0.00104*	*0.0009*	0.00	0.00	0.00	0.00	0.00	0.00
Silver	0.0025	mg/L	*0.000014*	*0.000019*	*0.000018*	*0.0000*	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000040
Thallium	0.0008	mg/L	*0.000032*	*0.000020*	*0.000018*	*0.0000*	< 0.000010	< 0.000010	< 0.000010	0.00	0.00	0.00
Titanium		mg/L	-	-	-	*0.0037*	0.01	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010
Zinc	0.03	mg/L	*0.0035*	*0.0050*	*0.0046*	*0.0025*	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010
WQ07- Dissolved Metals												
Calcium (Dissolved)		mg/L	*156.3*	*186.7*	*165.1*	*101.80000*	25.40	39.50	52.90	109.00	146.00	238.00
Magnesium (Dissolved)		mg/L	*48.2*	*63.4*	*54.6*	*36.96500*	6.39	14.40	17.30	36.10	45.60	102.00
Potassium (Dissolved)		mg/L	*24.4*	*26.4*	*22.0*	*16.16833*	3.78	6.31	8.32	16.50	23.70	38.40
Sodium (Dissolved)		mg/L	*314*	*420*	*329*	*220.31667*	36.30	82.60	111.00	221.00	304.00	567.00

		Sample date	5/31/2025						6/15/2025					
		Sample type	Lab Blank	Field Blank	Original	Duplicate			Lab Blank	Field Blank	Original	Duplicate		
		LAB_SDG	C565762	C565762	C565762	C565762	C565762	C565762	C572835	C572835	C572835	C572835	C572835	C572835
Parameter	**Unit**	**MDL**					**RPD (LB/FB)**	**RPD (N/FD)**					**RPD (LB/FB)**	**RPD (N/FD)**
WQ02- Conventional Parameters														
pH	**pH units**	-	-	6.40	7.78	7.73	-	0.64	-	5.86	7.73	7.85	-	1.54
Dissolved Oxygen	%	-	-	82.0	82.0	82.0	-	0.00	-	-	93.5	93.5	-	0.00
Turbidity	**NTU**	0.1	0.1	0.1	4.2	2.8	0.00	40.00	0.1	0.1	5.1	5.4	0.00	5.71
Hardness, as CaCO3	**mg/L**	0.50	-	0.50	87.0	87.5	-	0.57	-	0.50	154	158	-	2.56
Hardness, as CaCO3-D	**mg/L**	0.50	-	0.50	89.8	90.6	-	0.89	-	0.50	158	160	-	1.26
Total alkalinity, as Ca	**mg/L**	1.0	1	1.3	52	36	26.09	36.36	1	1.0	41	41	0.00	0.00
TDS	**mg/L**	10	10	10	200	220	0.00	9.52	10	10	485	495	0.00	2.04
TDS, calculated	**mg/L**	1.0	-	1.0	230	220	-	4.44	-	1.0	440	440	-	0.00
TSS	**mg/L**	1	1	1	17	7	0.00	***83.33***	1	1	6	6	0.00	0.00
WQ03- Major Ions														
Chloride	**mg/L**	1.0	1	1.0	68	69	0.00	1.46	1	1.0	160	160	0.00	0.00
Cyanide	**mg/L**	0.00050	0.0005	0.00050	0.00057	0.00067	0.00	16.13	0.0005	0.00050	0.00052	0.00050	0.00	3.92
Fluoride	**mg/L**	0.10	0.1	0.10	0.10	0.10	0.00	0.00	0.1	0.10	0.10	0.10	0.00	0.00
Silica	**mg/L**	0.050	0.05	0.050	0.97	0.83	0.00	15.56	0.05	0.050	0.96	0.95	0.00	1.05
Sulfate	**mg/L**	0.50	0.5	0.50	50	51	0.00	1.98	0.5	0.50	100	110	0.00	9.52
WQ04- Nutrients and Chlorophyll a														
Ammonia Nitrogen (a	**mg/L**	0.05	0.05	0.050	0.44	0.41	0.00	7.06	0.05	0.064	0.49	0.53	**24.56**	7.84
Nitrate (as N)	**mg/L**	0.10	0.1	0.10	1.08	1.17	0.00	8.00	0.1	0.10	2.46	2.47	0.00	0.41
Nitrite (as N)	**mg/L**	0.010	0.01	0.010	0.010	0.010	0.00	0.00	0.01	0.010	0.015	0.016	0.00	6.45
Nitrate + nitrite (as N	**mg/L**	0.10	-	0.10	1.08	1.17	-	8.00	-	0.10	2.47	2.48	-	0.40
Total phosphorus	**mg/L**	0.020	0.02	0.020	0.020	0.020	0.00	0.00	0.02	0.020	0.020	0.020	0.00	0.00
Orthophosphate (P)	**mg/L**	0.010	0.01	0.010	0.010	0.010	0.00	0.00	0.01	0.010	0.010	0.010	0.00	0.00
WQ06- Total Metals														
Aluminum	**mg/L**	0.0030	0.003	0.0030	0.246	0.198	0.00	21.62	0.003	0.0030	0.131	0.121	0.00	7.94
Antimony	**mg/L**	-	0.00050	-	-	-	-	-	0.00050	-	-	-	-	-
Arsenic	**mg/L**	0.00010	0.0001	0.00010	0.0146	0.0139	0.00	4.91	0.0001	0.00010	0.0101	0.0103	0.00	1.96
Barium	**mg/L**	0.0010	0.001	0.0010	0.0097	0.0093	0.00	4.21	0.001	0.0010	0.0146	0.0144	0.00	1.38
Beryllium	**mg/L**	-	0.00010	-	-	-	-	-	0.00010	-	-	-	-	-
Bismuth	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	**mg/L**	-	0.050	-	-	-	-	-	0.050	-	-	-	-	-
Cadmium	**mg/L**	0.000010	0.00001	0.000010	0.000015	0.000014	0.00	6.90	0.00001	0.000010	0.000029	0.000026	0.00	10.91
Calcium (total)	**mg/L**	0.050	-	0.050	24.6	24.8	-	0.81	-	0.050	38.4	39.6	-	3.08
Chromium	**mg/L**	0.0010	0.001	0.0010	0.0010	0.0010	0.00	0.00	0.001	0.0010	0.0010	0.0010	0.00	0.00
Cobalt	**mg/L**	-	-	-	-	-	-	-	0.00020	-	-	-	-	-
Copper	**mg/L**	0.00050	0.0005	0.00050	0.00169	0.00158	0.00	6.73	0.0005	0.00050	0.00170	0.00172	0.00	1.17
Iron	**mg/L**	0.010	0.01	0.010	0.537	0.412	0.00	26.34	0.01	0.010	0.235	0.225	0.00	4.35
Lead	**mg/L**	0.00020	0.0002	0.00020	0.00097	0.00090	0.00	7.49	0.0002	0.00020	0.00057	0.00058	0.00	1.74
Lithium	**mg/L**	-	0.0020	-	-	-	-	-	0.0020	-	-	-	-	-
Magnesium (total)	**mg/L**	0.050	-	0.050	6.23	6.19	-	0.64	-	0.050	14.1	14.3	-	1.41
Manganese	**mg/L**	0.0010	0.001	0.0010	0.0657	0.0632	0.00	3.88	0.001	0.0010	0.101	0.102	0.00	0.99
Mercury	**mg/L**	0.00001	0.00001	0.00001	0.00001	0.00001	0.00	0.00	0.00001	0.00001	0.00001	0.00001	0.00	0.00
Molybdenum	**mg/L**	0.0010	0.001	0.0010	0.0015	0.0015	0.00	0.00	0.001	0.0010	0.0013	0.0013	0.00	0.00
Nickel	**mg/L**	0.0010	0.001	0.0010	0.0072	0.0069	0.00	4.26	0.001	0.0010	0.0121	0.0120	0.00	0.83
Potassium (total)	**mg/L**	0.050	-	0.050	3.60	3.57	-	0.84	-	0.050	6.04	6.06	-	0.33
Selenium	**mg/L**	0.00010	0.0001	0.00010	0.00026	0.00024	0.00	8.00	0.0001	0.00010	0.00040	0.00039	0.00	2.53
Silicon	**mg/L**	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	**mg/L**	0.000020	0.00002	0.000020	0.000020	0.000020	0.00	0.00	0.00002	0.000020	0.000020	0.000020	0.00	0.00

Sodium (total)	mg/L	0.050	-	0.050	33.4	33.6	-	0.60	-	0.050	82.3	81.4	-	1.10
Strontium	mg/L	-	0.0010	-	-	-	-	-	0.0010	-	-	-	-	-
Thallium	mg/L	0.000010	0.00001	0.000010	0.000010	0.000010	0.00	0.00	0.00001	0.000010	0.000010	0.000010	0.00	0.00
Tin	mg/L	-	0.0050	-	-	-	-	-	0.0050	-	-	-	-	-
Titanium	mg/L	0.0050	0.005	0.0050	0.0069	0.0062	0.00	10.69	0.005	0.0050	0.0050	0.0050	0.00	0.00
Uranium	mg/L	-	0.00010	-	-	-	-	-	0.00010	-	-	-	-	-
Vanadium	mg/L	-	0.0050	-	-	-	-	-	0.0050	-	-	-	-	-
Zinc	mg/L	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00	0.005	0.0050	0.0050	0.0050	0.00	0.00
Zirconium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
WQ07- Dissolved Metals														
Aluminum	mg/L	0.0030	0.003	0.0030	0.0116	0.0110	0.00	5.31	0.003	0.0030	0.0080	0.0082	0.00	2.47
Antimony	mg/L	-	0.00050	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	0.00010	0.0001	0.00010	0.00993	0.0100	0.00	0.70	0.0001	0.00010	0.00824	0.00823	0.00	0.12
Barium	mg/L	0.0010	0.001	0.0010	0.0076	0.0077	0.00	1.31	0.001	0.0010	0.0138	0.0138	0.00	0.00
Beryllium	mg/L	-	0.00010	-	-	-	-	-	-	-	-	-	-	-
Bismuth	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	mg/L	-	0.050	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	0.000010	0.00001	0.000010	0.000013	0.000013	0.00	0.00	0.00001	0.000010	0.000026	0.000024	0.00	8.00
Calcium (Dissolved)	mg/L	0.050	-	0.050	25.4	25.4	-	0.00	-	0.050	39.5	40.3	-	2.01
Chromium	mg/L	0.0010	0.001	0.0010	0.0010	0.0010	0.00	0.00	0.001	0.0010	0.0010	0.0010	0.00	0.00
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	0.00020	0.0002	0.00020	0.00095	0.00106	0.00	10.95	0.0002	0.00020	0.00129	0.00140	0.00	8.18
Iron	mg/L	0.0050	0.005	0.0050	0.0050	0.0050	0.00	0.00	0.005	0.0050	0.0050	0.0050	0.00	0.00
Lead	mg/L	0.00020	0.0002	0.00020	0.00020	0.00020	0.00	0.00	0.0002	0.00020	0.00020	0.00020	0.00	0.00
Lithium	mg/L	-	0.0020	-	-	-	-	-	-	-	-	-	-	-
Magnesium (Dissolve	mg/L	0.050	-	0.050	6.39	6.60	-	3.23	-	0.050	14.4	14.3	-	0.70
Manganese	mg/L	0.0010	0.001	0.0010	0.0614	0.0618	0.00	0.65	0.001	0.0010	0.103	0.103	0.00	0.00
Mercury	mg/L	0.00001	0.00001	0.00001	0.00001	0.00001	0.00	0.00	0.00001	0.00001	0.00001	0.00001	0.00	0.00
Molybdenum	mg/L	0.0010	0.001	0.0010	0.0014	0.0014	0.00	0.00	0.001	0.0010	0.0014	0.0014	0.00	0.00
Nickel	mg/L	0.0010	0.001	0.0010	0.0061	0.0061	0.00	0.00	0.001	0.0010	0.0118	0.0117	0.00	0.85
Potassium (Dissolved	mg/L	0.050	-	0.050	3.78	3.81	-	0.79	-	0.050	6.31	6.35	-	0.63
Selenium	mg/L	0.00010	0.0001	0.00010	0.00027	0.00023	0.00	16.00	0.0001	0.00010	0.00041	0.00040	0.00	2.47
Silicon	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	0.000020	0.00002	0.000020	0.000020	0.000020	0.00	0.00	0.00002	0.000020	0.000020	0.000020	0.00	0.00
Sodium (Dissolved)	mg/L	0.050	-	0.050	36.3	36.6	-	0.82	-	0.050	82.6	83.6	-	1.20
Strontium	mg/L	-	0.0010	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/L	0.000010	0.00001	0.000010	0.000010	0.000010	0.00	0.00	0.00001	0.000010	0.000010	0.000010	0.00	0.00
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	0.005	0.0050	0.0050	0.0050	0.00	0.00	0.005	0.0050	0.0050	0.0050	0.00	0.00
Zirconium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
% Exceedance*							0%	2%					0%	0%

Footnotes:

RPD = Relative Percent Difference; MDL: Method Detection Limit

All value "<DL" have been replaced by "DL".

* Although usually consistent, in the rare event that there were two different RDLs for different sampling events, the lower one was used. This may cause artifical 10x MDL exceedances.

Bold values correspond to a RPD higher than 20% and for which concentrations of parent and duplicate samples are within 10x the MDL.

Grey shaded cells correspond to a RPD higher than 20% and for which concentrations of parent and duplicate samples are above 10x the MDL.

Bold & Italic values correspond to a RPD higher than 20% and for which one of the result is within 10X the MDL and the other one exceeds 10x the MDL.

MEL-20	CCME	Sample date	*Averages*						5/31/2025	6/15/2025	7/21/2025	8/4/2025	9/3/2025	10/2/2025
Parameter	**Guideline**	**Unit**	***2020***	***2021***	***2022***	***2023***	***2024***	***2025***						
WQ01- Field Measured														
Temperature		°C	*6.24*	*5.58*	*8.0*	*8.90*	*7.62*	*7.95*	4.40	5.00	12.80	9.50	9.40	6.10
pH	6.5 to 9.0	pH units	*7.75*	*7.87*	*7.38*	*7.89*	*7.72*	*7.65*	7.60	7.66	7.98	7.34	7.24	8.07
Conductivity		uS/cm	*2112.41*	*2619*	*5503*	*7,118.71*	*4,681.50*	*4079.65*	438.80	1541.00	7569.00	908.10	4126.00	9895.00
Dissolved oxygen		mg/L	*10.64*	*10.68*	*10.84*	*8.82*	*10.86*	*9.27*	15.31	12.54	9.86	4.32	3.15	10.44
Dissolved oxygen		%	*84.77*	*88.2*	*83.4*	*85.79*	*90.77*	*78.65*	118.70	98.70	95.60	39.10	32.60	87.20
WQ02- Conventional Parameters														
pH	6.5 to 9.0	pH units	*7.74*	*7.77*	*7.76*	*7.75*	*7.73*	*7.85*	7.77	7.86	7.98	7.94	7.8	7.74
Turbidity		NTU	*9.76*	*12.62*	*7*	*1.83*	*4.55*	*5.70*	3.10	3.00	4.30	4.70	1.1	18.00
Conductivity		ms/cm	-	-	-	-	-	*5.19*	1.00	1.60	7.45	3.00	8.21	9.88
Hardness, as CaCO3		mg/L	*395.7*	*382.5*	*766*	*1,298.57*	*978.83*	*1095.67*	176.00	284.00	1370.00	984.00	1740	2020.00
Total alkalinity, as CaCO3		mg/L	*72.14*	*85.17*	*88*	*116.14*	*94.33*	*115.50*	62.00	61.00	140.00	140.00	140	150.00
TDS		mg/L	*1183.57*	*1037.5*	*2258*	*4,664.29*	*3,615.00*	*3365.00*	550.00	1060.00	4900.00	1940.00	5300	6440.00
TDS, calculated		mg/L	-	*1253.33*	*2355*	*4,471.43*	*3,315.00*	*3300.00*	530.00	870.00	4500.00	1900.00	5700	6300.00
TSS		mg/L	*16.86*	*20*	*15*	*10.71*	*7.83*	*14.00*	13.00	13.00	10.00	15.00	11	22.00
WQ03- Major Ions														
Chloride	120	mg/L	*419.14*	*391.67*	*982*	*1,800.00*	*1,263.33*	*1295.00*	160.00	290.00	1900.00	620.00	2100	2700.00
Cyanide		mg/L	*0.02*	*0.01*	*0.01597*	*0.02*	*0.03*	*0.02*	0.05	0.02	0.00	0.01	0.00284	0.00
Fluoride		mg/L	*0.11*	*0.09*	*0.15*	*0.17*	*0.14*	*0.14*	< 0.10	< 0.10	0.13	0.10	0.29	0.23
Silica		mg/L	-	*2.7*	*3.7*	*5.3*	*3.4*	*3.52*	1.30	1.60	3.30	3.90	5.2	5.80
Sulfate	128	mg/L	*227.14*	*243.33*	*418*	*762.86*	*670.00*	*650.00*	130.00	200.00	790.00	480.00	1100	1200.00
WQ04- Nutrients and Chlorophyll a														
Ammonia Nitrogen (as N)		mg/L	*7.54*	*7.98*	*11.8*	*24.83*	*13.68*	*11.35*	4.60	6.20	17.00	8.30	15	17.00
Nitrate (as N)	13	mg/L	*11.77*	*11.95*	*35.37*	*75.17*	*47.77*	*40.72*	9.11	14.00	60.40	13.70	68.6	78.50
Nitrite (as N)	0.06	mg/L	*0.28*	*0.23*	*0.857*	*1.25*	*0.93*	*0.45*	0.12	0.18	0.59	0.24	0.704	0.88
Total phosphorus		mg/L	*0.08*	*0.07*	*0.04*	*0.05*	*0.01*	*0.03*	0.03	0.03	< 0.020	0.03	0.026	0.06
Orthophosphate (P)		mg/L	*0.06*	*0.07*	*0.024*	*0.03*	*0.01*	*0.01*	0.01	0.01	0.02	< 0.010	0.015	0.01
WQ06- Total Metals														
Aluminum		mg/L	*0.31857*	*0.25593*	*0.2391*	*0.15857*	*0.11003*	*0.1672*	0.21	0.21	0.10	0.05	0.134	0.30
Arsenic	0.005	mg/L	*0.2038*	*0.23905*	*0.1005*	*0.18214*	*0.10522*	*0.1312*	0.23	0.19	0.12	0.07	0.0815	0.10
Barium		mg/L	*0.05099*	*0.05925*	*0.0730*	*0.09874*	*0.05112*	*0.0567*	0.02	0.02	0.07	0.07	0.0722	0.09
Cadmium	0.00006	mg/L	*0.00004*	*0.00007*	*0.000157*	*0.00037*	*0.00023*	*0.0002*	0.00	0.00	0.00	0.00	0.00043	0.00
Chromium		mg/L	*0.00096*	*0.00072*	*0.0012*	*0.00200*	*0.00133*	*0.0016*	< 0.0010	< 0.0010	< 0.0050	< 0.0020	< 0.0050	< 0.0050
Copper	0.002	mg/L	*0.01014*	*0.00844*	*0.00980*	*0.01479*	*0.00760*	*0.0097*	0.02	0.01	0.01	0.01	0.0071	0.01
Iron	0.3	mg/L	*0.603*	*0.64867*	*0.529*	*0.49157*	*0.31217*	*0.5635*	0.68	0.58	0.43	0.42	0.383	0.88
Lead	0.001	mg/L	*0.00559*	*0.007*	*0.00549*	*0.00673*	*0.00437*	*0.0041*	0.00	0.00	0.00	0.00	0.0033	0.01
Manganese		mg/L	*0.36114*	*0.30133*	*0.468*	*0.91286*	*0.60917*	*0.7295*	0.11	0.23	0.99	0.71	1.15	1.20
Mercury	0.000026	mg/L	*0.00002*	*0.00001*	*0.000005*	*0.00001*	*0.00001*	*0.0001*	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	0.073	mg/L	*0.00601*	*0.00693*	*0.0068*	*0.01044*	*0.00837*	*0.0076*	0.00	0.01	0.01	0.01	0.0104	0.01
Nickel	0.025	mg/L	*0.0215*	*0.01995*	*0.0384*	*0.07457*	*0.05112*	*0.0587*	0.01	0.01	0.06	0.06	0.105	0.11
Selenium	0.001	mg/L	*0.00181*	*0.00481*	*0.00243*	*0.00697*	*0.00407*	*0.0036*	0.00	0.00	0.00	0.00	0.0055	0.00
Silver	0.0025	mg/L	*0.00002*	*0.00002*	*0.000030*	*0.00005*	*0.00003*	*0.0000*	0.00	0.00	< 0.00010	< 0.000040	< 0.00010	< 0.00010
Thallium	0.0008	mg/L	*0.00002*	*0.00002*	*0.00003*	*0.00005*	*0.00003*	*0.0000*	< 0.000010	0.00	< 0.000050	0.00	< 0.000050	0.00
Zinc	0.03	mg/L	*0.0033*	*0.00292*	*0.0058*	*0.01000*	*0.00667*	*0.0079*	< 0.0050	< 0.0050	< 0.025	< 0.010	< 0.025	< 0.025
WQ07- Dissolved Metals														
Calcium (Dissolved)		mg/L	*104.14*	*105.4*	*187.6*	*340.29*	*242.17*	*246.1667*	51.30	74.70	275.00	201.00	427	448.00
Magnesium (Dissolved)		mg/L	*33.19*	*28.35*	*66.9*	*135.97*	*106.35*	*114.8833*	13.70	26.00	148.00	62.60	211	228.00
Potassium (Dissolved)		mg/L	*16.15*	*15.7*	*29.52*	*58.44*	*44.17*	*41.7233*	8.34	12.50	57.40	24.60	75.7	71.80
Sodium (Dissolved)		mg/L	*228.99*	*214.33*	*489*	*950.14*	*713.00*	*716.4167*	94.50	170.00	985.00	359.00	1400	1290.00

	Sample date		9/3/2025					
	Sample type		Lab Blank	Field Blank	Original	Duplicate		
	LAB_SDG		C5B1154	C5B1154	C5B1154	C5B1154	C5B1154	C5B1154
Parameter	Unit	MDL					RPD (LB/FB)	RPD (N/FD)
WQ02- Conventional Parameters								
pH	**pH units**	-	-	5.89	7.80	7.76	-	0.51
Dissolved Oxygen	%	-	-	-	32.6	32.6	-	0.00
Turbidity	**NTU**	0.1	0.1	0.1	1.1	1.3	0.00	16.67
Conductivity	**ms/cm**	0.002	0.002	0.002	8.21	9.08	0.00	10.06
Conductivity	**umhos/cm**	-	-	-	-	-	-	-
Hardness, as CaCO3	**mg/L**	0.50	-	0.50	1740	1700	-	2.33
Hardness, as CaCO3-D	**mg/L**	0.50	-	0.50	1940	1970	-	1.53
Total alkalinity, as Ca	**mg/L**	1.0	1	1.0	140	140	0.00	0.00
TDS	**mg/L**	10	10	10	5300	5910	0.00	10.88
TDS, calculated	**mg/L**	1.0	-	1.0	5700	6100	-	
TSS	**mg/L**	1	1	1	11	12	0.00	8.70
Total organic carbon	**mg/L**	0.40	0.4	0.40	11	11	0.00	0.00
WQ03- Major Ions								
Chloride	**mg/L**	1.0	1	1.0	2100	2300	0.00	9.09
Cyanide	**mg/L**	0.00050	0.0005	0.00050	0.00284	0.00283	0.00	0.35
Cyanide (free)	**mg/L**	0.00050	0.0005	0.00050	0.00146	0.00147		
Cyanide (WAD)	**mg/L**	0.00050	0.0005	0.00050	0.0019	0.0018	0.00	5.41
Fluoride	**mg/L**	0.10	0.1	0.10	0.29	0.24	0.00	18.87
Silica	**mg/L**	0.050	0.05	0.050	5.2	4.6	0.00	12.24
Sulfate	**mg/L**	0.50	0.5	0.50	1100	1100	0.00	0.00
WQ04- Nutrients and Chlorophyll a								
Ammonia Nitrogen (a	**mg/L**	0.050	0.05	0.050	15	15	0.00	0.00
Nitrate (as N)	**mg/L**	0.10	0.1	0.10	68.6	77.9		
Nitrite (as N)	**mg/L**	0.010	0.01	0.010	0.704	0.754	0.00	6.86
Nitrate + nitrite (as N	**mg/L**	0.10	-	0.10	69.3	78.7	-	12.70
Total phosphorus	**mg/L**	0.020	0.02	0.020	0.026	0.020	0.00	**26.09**
Orthophosphate (P)	**mg/L**	0.010	0.01	0.010	0.015	0.018	0.00	18.18
WQ06- Total Metals								
Aluminum	**mg/L**	0.0030	0.003	0.0030	0.134	0.157	0.00	15.81
Antimony	**mg/L**	-	-	-	-	-	-	-
Arsenic	**mg/L**	0.0001	0.0001	0.00016	0.0815	0.0796	**46.15**	2.36
Barium	**mg/L**	0.0010	0.001	0.0010	0.0722	0.0671	0.00	7.32
Beryllium	**mg/L**	-	-	-	-	-	-	-
Bismuth	**mg/L**	-	-	-	-	-	-	-
Boron	**mg/L**	-	-	-	-	-	-	-
Cadmium	**mg/L**	0.000010	0.00001	0.000010	0.000430	0.000387	0.00	10.53
Calcium (total)	**mg/L**	0.050	-	0.050	377	379	-	0.53
Chromium	**mg/L**	0.0010	0.001	0.0010	0.0050	0.0050	0.00	0.00
Cobalt	**mg/L**	-	-	-	-	-	-	-
Copper	**mg/L**	0.00050	0.0005	0.00050	0.0071	0.0069	0.00	2.86
Iron	**mg/L**	0.010	0.01	0.010	0.383	0.426	0.00	10.63
Lead	**mg/L**	0.00020	0.0002	0.00020	0.0033	0.0034	0.00	2.99
Lithium	**mg/L**	-	-	-	-	-	-	-
Magnesium (total)	**mg/L**	0.050	-	0.050	195	183	-	6.35
Manganese	**mg/L**	0.0010	0.001	0.0010	1.15	1.10	0.00	4.44
Mercury	**mg/L**	0.00001	0.00001	0.00001	0.00001	0.00001	0.00	0.00
Molybdenum	**mg/L**	0.0010	0.001	0.0010	0.0104	0.0097	0.00	6.97
Nickel	**mg/L**	0.0010	0.001	0.0010	0.105	0.0984	0.00	6.49
Potassium (total)	**mg/L**	0.050	-	0.050	66.9	63.6	-	5.06
Selenium	**mg/L**	0.00010	0.0001	0.00010	0.00550	0.00512	0.00	7.16
Silicon	**mg/L**	-	-	-	-	-	-	-

Silver	**mg/L**	0.000020	0.00002	0.000020	0.00010	0.00010	0.00	0.00
Sodium (total)	**mg/L**	0.050	-	0.050	1190	1130	-	5.17
Strontium	**mg/L**	-	-	-	-	-	-	-
Thallium	**mg/L**	0.000010	0.00001	0.000010	0.000050	0.000050	0.00	0.00
Tin	**mg/L**	-	-	-	-	-	-	-
Titanium	**mg/L**	0.0050	0.005	0.0050	0.025	0.025		
Uranium	**mg/L**	-	-	-	-	-	-	-
Vanadium	**mg/L**	-	-	-	-	-	-	-
Zinc	**mg/L**	0.0050	0.005	0.0050	0.025	0.025	0.00	0.00
Zirconium	**mg/L**	-	-	-	-	-	-	-
WQ07- Dissolved Metals								
Aluminum	**mg/L**	0.0030	0.003	0.0030	0.015	0.015	0.00	0.00
Antimony	**mg/L**	-	-	-	-	-	-	-
Arsenic	**mg/L**	0.00010	0.0001	0.00010	0.0742	0.0757	0.00	2.00
Barium	**mg/L**	0.0010	0.001	0.0010	0.0810	0.0801	0.00	1.12
Beryllium	**mg/L**	-	-	-	-	-	-	-
Bismuth	**mg/L**	-	-	-	-	-	-	-
Boron	**mg/L**	-	-	-	-	-	-	-
Cadmium	**mg/L**	0.000010	0.00001	0.000010	0.000508	0.000496	0.00	2.39
Calcium (Dissolved)	**mg/L**	0.050	-	0.050	427	428	-	0.23
Chromium	**mg/L**	0.0010	0.001	0.0010	0.0050	0.0050	0.00	0.00
Cobalt	**mg/L**	-	-	-	-	-	-	-
Copper	**mg/L**	0.00020	0.0002	0.00020	0.0066	0.0066	0.00	0.00
Iron	**mg/L**	0.0050	0.005	0.0050	0.025	0.025	0.00	0.00
Lead	**mg/L**	0.00020	0.0002	0.00020	0.0010	0.0010	0.00	0.00
Lithium	**mg/L**	-	-	-	-	-	-	-
Magnesium (Dissolve	**mg/L**	0.050	-	0.050	211	219	-	3.72
Manganese	**mg/L**	0.0010	0.001	0.0010	1.11	1.13	0.00	1.79
Mercury	**mg/L**	0.00001	0.00001	0.00001	0.00001	0.00001	0.00	0.00
Molybdenum	**mg/L**	0.0010	0.001	0.0010	0.0119	0.0123	0.00	3.31
Nickel	**mg/L**	0.0010	0.001	0.0010	0.104	0.105	0.00	0.96
Potassium (Dissolved	**mg/L**	0.050	-	0.050	75.7	76.5	-	1.05
Selenium	**mg/L**	0.00010	0.0001	0.00010	0.00569	0.00566	0.00	0.53
Silicon	**mg/L**	-	-	-	-	-	-	-
Silver	**mg/L**	0.000020	0.00002	0.000020	0.00010	0.00010	0.00	0.00
Sodium (Dissolved)	**mg/L**	0.05	-	0.059	1400	1440	-	2.82
Strontium	**mg/L**	-	-	-	-	-	-	-
Thallium	**mg/L**	0.000010	0.00001	0.000010	0.000050	0.000054	0.00	7.69
Tin	**mg/L**	-	-	-	-	-	-	-
Titanium	**mg/L**	-	-	-	-	-	-	-
Uranium	**mg/L**	-	-	-	-	-	-	-
Vanadium	**mg/L**	-	-	-	-	-	-	-
Zinc	**mg/L**	0.0050	0.005	0.0050	0.025	0.025	0.00	0.00
Zirconium	**mg/L**	-	-	-	-	-	-	-
% Exceedance*							0%	0%

Footnotes:

RPD = Relative Percent Difference; MDL: Method Detection Limit

All value "<DL" have been replaced by "DL".

* Although usually consistent, in the rare event that there were two different RDLs for different sampling events, the lower one was used. This may cause artifical 10x MDL exceedances.

Bold values correspond to a RPD higher than 20% and for which concentrations of parent and duplicate samples are within 10x the MDL.

Grey shaded cells correspond to a RPD higher than 20% and for which concentrations of parent and duplicate samples are above 10x the MDL.

Bold & Italic values correspond to a RPD higher than 20% and for which one of the result is within 10X the MDL and the other one exceeds 10x the MDL.

MEL-21	CCME	Sample date	Average						5/31/2025	6/15/2025	7/7/2025	8/3/2025	9/3/2025	10/2/2025
Parameter	Guideline	Unit	2020	2021	2022	2023	2024	2025						
WQ01- Field Measured														
Temperature		°C	6.67	5.94	7.5	8.88	6.97	7.05	1.20	2.60	10.10	13.60	9.90	4.90
pH	6.5 to 9.0	pH units	7.68	7.89	7.71	8.35	8.03	8.03	8.05	7.93	7.97	7.92	8.14	8.15
Conductivity		uS/cm	2431.81	1961.45	2741.98	3,021.43	1,317.17	2666.28	643.90	1002.00	388.80	1985.00	4774.00	7204.00
Dissolved oxygen		mg/L	10.94	38.94	33.23	9.69	11.05	10.93	12.38	12.92	10.45	10.53	8.41	10.90
Dissolved oxygen		%	89.3	63.81	171.4	92.90	88.98	84.22	88.20	95.20	93.10	65.80	75.60	87.40
WQ02- Conventional Parameters														
pH	6.5 to 9.0	pH units	7.75	7.87	7.85	8.04	7.96	7.97	7.88	8.09	7.89	8.01	8.04	7.92
Turbidity		NTU	6.6	15.92	7.0	1.80	8.90	16.18	5.20	8.00	23.00	30.00	4.90	26.00
Hardness, as CaCO3		mg/L	606.29	488.33	577	724.57	343.33	472.00	172.00	295.00	179.00	403.00	703.00	1080.00
Total alkalinity, as CaCO3		mg/L	83.86	81.5	110	114.00	89.17	113.33	59.00	72.00	89.00	110.00	170.00	180.00
TDS		mg/L	1281.43	1159.17	1389	2,008.57	931.67	1519.17	395.00	770.00	430.00	1210.00	2830.00	3480.00
TDS, calculated		mg/L	-	1366.67	1320	1,900.00	768.33	1463.33	340.00	550.00	390.00	1200.00	2900.00	3400.00
TSS		mg/L	15.43	28.5	18	11.00	9.83	22.67	10.00	15.00	32.00	39.00	8.00	32.00
WQ03- Major Ions														
Chloride	120	mg/L	468.57	415	507	671.43	229.33	526.67	100.00	190.00	110.00	360.00	1100.00	1300.00
Cyanide		mg/L	0.01	0.01	0.02966	0.01	0.02	0.01	0.01	0.01	0.01	0.02	0.01	0.03
Fluoride		mg/L	0.12	0.11	0.13	0.16	0.08	0.12	< 0.10	< 0.10	< 0.10	0.13	0.24	0.21
Silica		mg/L	-	4.37	4.5	3.36	3.15	3.28	1.70	2.40	2.60	4.10	3.90	5.00
Sulfate	128	mg/L	188.43	215.83	284	432.86	205.00	322.17	86.00	130.00	87.00	290.00	580.00	760.00
WQ04- Nutrients and Chlorophyll a														
Ammonia Nitrogen (as N)		mg/L	0.52	0.64	2.75	1.52	0.79	4.68	0.51	0.55	1.90	3.50	12.00	9.60
Nitrate (as N)	13	mg/L	1.51	3.96	8.70	14.40	5.12	9.85	1.94	3.18	2.67	9.70	18.50	23.10
Nitrite (as N)	0.06	mg/L	0.02	0.04	0.143	0.20	0.08	0.28	0.02	0.02	0.18	0.60	0.55	0.29
Total phosphorus		mg/L	0.02	0.04	0.028	0.03	0.03	0.03	< 0.020	0.02	0.04	0.05	0.02	0.06
Orthophosphate (P)		mg/L	0.021	0.01	0.010	0.01	0.01	0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
WQ06- Total Metals														
Aluminum		mg/L	0.24541	0.47067	0.313	0.16724	0.19822	0.4893	0.24	0.28	0.66	0.71	0.24	0.80
Arsenic	0.005	mg/L	0.11237	0.065	0.0762	0.06010	0.08018	0.0704	0.10	0.09	0.05	0.09	0.02	0.08
Barium		mg/L	0.08844	0.06827	0.0779	0.06447	0.03905	0.0438	0.02	0.03	0.03	0.05	0.06	0.07
Cadmium	0.00006	mg/L	0.00007	0.00006	0.000041	0.00008	0.00002	0.0001	0.00	0.00	0.00	0.00	0.00	0.00
Chromium		mg/L	0.00086	0.00123	0.0011	0.00083	0.00050	0.0015	< 0.0010	< 0.0010	0.00	0.00	< 0.0020	< 0.0050
Copper	0.002	mg/L	0.00697	0.00555	0.0097	0.00531	0.00727	0.0055	0.01	0.00	0.00	0.01	0.00	0.01
Iron	0.3	mg/L	0.47529	1.01917	0.868	0.37086	0.47167	1.0752	0.67	0.78	1.46	1.77	0.46	1.32
Lead	0.001	mg/L	0.00566	0.00752	0.00470	0.00319	0.00276	0.0053	0.00	0.01	0.00	0.01	0.00	0.01
Manganese		mg/L	0.33914	0.20467	0.3377	0.28071	0.12452	0.1780	0.06	0.11	0.08	0.16	0.23	0.43
Mercury	0.000026	mg/L	0.00002	0.00001	0.000005	0.00001	0.00001	0.0000	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	0.073	mg/L	0.00954	0.00577	0.0082	0.01116	0.00578	0.0077	0.00	0.00	0.01	0.01	0.01	0.01
Nickel	0.025	mg/L	0.02683	0.0201	0.0240	0.03141	0.01287	0.0185	0.01	0.01	0.01	0.02	0.02	0.04
Selenium	0.001	mg/L	0.00039	0.00048	0.00068	0.00100	0.00076	0.0012	0.00	0.00	0.00	0.00	0.00	0.00
Silver	0.0025	mg/L	0.00001	0.00002	0.000025	0.00001	0.00001	0.0000	< 0.000020	< 0.000020	< 0.000020	0.00	< 0.000040	< 0.00010
Thallium	0.0008	mg/L	0.00001	0.00002	0.000019	0.00002	0.00001	0.0000	< 0.000010	0.00	0.00	0.00	0.00	< 0.000050
Zinc	0.03	mg/L	0.00321	0.00325	0.0051	0.00421	0.00250	0.0046	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.025
WQ07- Dissolved Metals														
Calcium (Dissolved)		mg/L	188.43	136.68333	152.5	205.71429	100.23333	113.87	58.30	92.00	47.90	116.00	151.00	218.00
Magnesium (Dissolved)		mg/L	34.51	34.93333	42.60	68.02857	28.00000	47.88	9.18	15.40	10.20	34.70	92.80	125.00
Potassium (Dissolved)		mg/L	13.73	12.87167	19.60	27.60000	11.31833	21.75	5.71	8.20	7.17	19.10	44.60	45.70
Sodium (Dissolved)		mg/L	140.97	169.78333	233	342.71429	118.73333	304.88	36.40	60.70	60.20	227.00	713.00	732.00

MEL-22	CCME	Sample date	Average						5/31/2025	6/15/2025	7/7/2025	8/3/2025	9/3/2025	10/2/2025
Parameter	Guideline	Unit	2020	2021	2022	2023	2024	2025						
WQ01- Field Measured														
Temperature		°C	11.54	7.76	9.0	7.81	9.83	10.12	3.00	10.20	16.60	15.30	10.10	5.50
pH	6.5 to 9.0	pH units	7.78	8.14	7.48	7.67	7.96	7.94	7.82	8.07	8.03	8.02	7.83	7.84
Conductivity		uS/cm	5327	2896.08	6472	6,209.86	5,175.67	3610.17	1767.00	1453.00	3486.00	4528.00	5525.00	4902.00
Dissolved oxygen		mg/L	9.91	11.6	34.57	11.30	10.49	10.64	12.37	10.37	8.65	10.53	11.62	10.30
Dissolved oxygen		%	89.48	96.22	431.1	896.90	93.82	95.12	92.70	92.70	90.10	106.80	105.30	83.10
WQ02- Conventional Parameters														
pH	6.5 to 9.0	pH units	7.7	7.91	7.72	7.78	7.83	7.72	7.91	7.90	7.91	7.09	7.82	7.71
Turbidity		NTU	2.94	2.22	1.1	3.30	4.97	2.87	2.20	1.70	0.70	0.70	7.90	4.00
Hardness, as CaCO3		mg/L	1087.88	852.5	1,418	1,350.71	990.83	694.67	310.00	253.00	532.00	713.00	1120.00	1240.00
Total alkalinity, as CaCO3		mg/L	73.88	94.67	74	90.14	92.67	88.50	93.00	66.00	92.00	100.00	80.00	100.00
TDS		mg/L	2889.38	2223.33	3213	3,477.14	3,826.67	2180.83	945.00	900.00	2050.00	2640.00	3540.00	3010.00
TDS, calculated		mg/L	-	2166.67	2917	3,085.71	3,265.00	2063.33	900.00	780.00	1900.00	2600.00	3400.00	2800.00
TSS		mg/L	8.13	5	4	8.43	12.17	13.33	7.00	3.00	4.00	3.00	55.00	8.00
WQ03- Major Ions														
Chloride	120	mg/L	1327.5	1023.33	1,455	1,480.00	1,545.00	876.67	350.00	340.00	870.00	1000.00	1500.00	1200.00
Cyanide		mg/L	0.01	0.01	0.00133	0	0.01	0.01	0.02	0.01	0.01	0.02	0.00	0.00
Fluoride		mg/L	0.11	0.12	0.08	0.10	0.11	0.11	0.20	< 0.10	0.10	0.14	0.14	< 0.10
Silica		mg/L	-	1.71	1.69	3.26	3.00	2.51	2.60	0.96	1.60	3.20	1.80	4.90
Sulfate	128	mg/L	213.88	285	398	455.71	445.00	351.67	160.00	120.00	270.00	450.00	560.00	550.00
WQ04- Nutrients and Chlorophyll a														
Ammonia Nitrogen (as N)		mg/L	7.61	3.88	1.04	2.47	5.63	5.27	5.00	3.50	6.10	13.00	1.70	2.30
Nitrate (as N)	13	mg/L	19.08	12.13	4.64	5.57	13.34	14.76	7.05	5.38	13.40	26.60	24.10	12.00
Nitrite (as N)	0.06	mg/L	0.47	0.28	0.083	0.09	0.28	0.29	0.23	0.15	0.46	0.54	0.27	0.07
Total phosphorus		mg/L	0.03	0.02	0.016	0.03	0.01	0.02	< 0.020	< 0.020	< 0.020	< 0.020	0.03	0.03
Orthophosphate (P)		mg/L	0.01	0.01	0.006	0.01	0.01	0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
WQ06- Total Metals														
Aluminum		mg/L	0.1564	0.03765	0.0238	0.05563	0.07808	0.11	0.15	0.04	0.03	0.02	0.29	0.16
Arsenic	0.005	mg/L	0.01172	0.00692	0.00498	0.00506	0.00962	0.01	0.02	0.01	0.01	0.02	0.01	0.01
Barium		mg/L	0.08998	0.0687	0.1019	0.08896	0.06083	0.05	0.03	0.02	0.05	0.05	0.09	0.07
Cadmium	0.00006	mg/L	0.0001	0.00005	0.000044	0.00003	0.00003	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chromium		mg/L	0.00288	0.00092	0.0013	0.00157	0.00195	0.00	< 0.0010	< 0.0010	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Copper	0.002	mg/L	0.00369	0.00315	0.00386	0.00329	0.00279	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Iron	0.3	mg/L	0.32888	0.15883	0.221	0.64114	0.27700	0.35	0.35	0.10	0.08	0.07	0.93	0.57
Lead	0.001	mg/L	0.00132	0.0003	0.00029	0.00035	0.00056	0.00	0.00	0.00	< 0.00040	< 0.00040	0.00	0.00
Manganese		mg/L	0.29361	0.1725	0.396	0.52276	0.26750	0.19	0.27	0.04	0.07	0.11	0.12	0.52
Mercury	0.000026	mg/L	0.00004	0.00001	0.000005	0.00001	0.00001	0.00	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	0.073	mg/L	0.00445	0.00557	0.0052	0.00490	0.00705	0.01	0.01	0.01	0.01	0.01	0.01	0.00
Nickel	0.025	mg/L	0.01898	0.0164	0.0236	0.02640	0.03160	0.02	0.02	0.01	0.02	0.03	0.02	0.03
Selenium	0.001	mg/L	0.00036	0.00055	0.000283	0.00036	0.00153	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Silver	0.0025	mg/L	0.00006	0.00002	0.000027	0.00003	0.00004	0.00	0.00	< 0.000020	< 0.000040	< 0.000040	< 0.000040	< 0.000040
Thallium	0.0008	mg/L	0.00006	0.00004	0.000050	0.00003	0.00002	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Zinc	0.03	mg/L	0.01403	0.00625	0.0067	0.01250	0.01817	0.01	0.01	< 0.0050	< 0.010	< 0.010	< 0.010	0.02
WQ07- Dissolved Metals														
Calcium (Dissolved)		mg/L	308.65	224.33333	379	416.14286	261.00000	184.92	85.10	60.40	120.00	187.00	320.00	337.00
Magnesium (Dissolved)		mg/L	75.43	63.03333	87.6	104.90000	102.95000	65.70	24.90	22.80	53.30	84.20	107.00	102.00
Potassium (Dissolved)		mg/L	32.96	34.35	36.5	41.91429	51.21667	38.07	22.10	16.30	34.90	53.00	64.70	37.40
Sodium (Dissolved)		mg/L	472.75	414	470	522.28571	737.16667	410.33	165.00	160.00	429.00	612.00	667.00	429.00

		Sample date	10/2/2025					
		Sample type	Lab Blank	Field Blank	Original	Duplicate		
		LAB_SDG	C5C6989	C5C6989	C5C6989	C5C6989	C5C6989	C5C6989
Parameter	**Unit**	**MDL**					**RPD (LB/FB)**	**RPD (N/FD)**
WQ02- Conventional Parameters								
pH	**pH units**	-	-	6.74	7.71	7.72	-	0.13
Dissolved Oxygen	%	-	-	-	83.1	83.1	-	0.00
Turbidity	**NTU**	0.1	0.1	0.1	4.0	4.3	0.00	7.23
Hardness, as CaCO3	**mg/L**	0.50	-	0.50	1240	1220	-	1.63
Hardness, as CaCO3-t	**mg/L**	0.50	-	0.50	1260	1270	-	0.79
Total alkalinity, as Ca	**mg/L**	1	1	2.6	100	110	88.89	9.52
TDS	**mg/L**	10	10	10	3010	3070	0.00	1.97
TDS, calculated	**mg/L**	1	-	2.0	2800	2800	-	0.00
TSS	**mg/L**	1	1	1	8	8	0.00	0.00
WQ03- Major Ions								
Chloride	**mg/L**	1.0	1	1.0	1200	1200	0.00	0.00
Cyanide	**mg/L**	0.00050	0.0005	0.00050	0.00186	0.00091	0.00	**68.59**
Fluoride	**mg/L**	0.10	0.1	0.10	0.10	0.10	0.00	0.00
Silica	**mg/L**	0.050	0.05	0.050	4.9	4.3	0.00	13.04
Sulfate	**mg/L**	0.5	0.5	0.64	550	530	**24.56**	3.70
WQ04- Nutrients and Chlorophyll a								
Ammonia Nitrogen (a	**mg/L**	0.050	0.05	0.050	2.3	2.3	0.00	0.00
Nitrate (as N)	**mg/L**	0.10	0.1	0.10	12.0	12.3	0.00	2.47
Nitrite (as N)	**mg/L**	0.010	0.01	0.010	0.068	0.070	0.00	2.90
Nitrate + nitrite (as N	**mg/L**	0.10	-	0.10	12.1	12.4	-	2.45
Total phosphorus	**mg/L**	0.020	0.02	0.020	0.028	0.033	0.00	16.39
Orthophosphate (P)	**mg/L**	0.010	0.01	0.010	0.010	0.010	0.00	0.00
WQ06- Total Metals								
Aluminum	**mg/L**	0.0030	0.003	0.0030	0.162	0.140	0.00	14.57
Antimony	**mg/L**	-	0.0005	-	-	-	-	-
Arsenic	**mg/L**	0.00010	0.0001	0.00010	0.00871	0.00818	0.00	6.28
Barium	**mg/L**	0.0010	0.001	0.0010	0.0652	0.0613	0.00	6.17
Beryllium	**mg/L**	-	0.0001	-	-	-	-	-
Bismuth	**mg/L**	-	-	-	-	-	-	-
Boron	**mg/L**	-	0.05	-	-	-	-	-
Cadmium	**mg/L**	0.000010	0.00001	0.000010	0.000063	0.000055	0.00	13.56
Calcium (total)	**mg/L**	0.050	-	0.050	335	332	-	0.90
Chromium	**mg/L**	0.0010	0.001	0.0010	0.0020	0.0020	0.00	0.00
Cobalt	**mg/L**	-	-	-	-	-	-	-
Copper	**mg/L**	0.00050	0.0005	0.00050	0.0036	0.0033	0.00	8.70
Iron	**mg/L**	0.010	0.01	0.010	0.569	0.582	0.00	2.26
Lead	**mg/L**	0.00020	0.0002	0.00020	0.00070	0.00067	0.00	4.38
Lithium	**mg/L**	-	0.002	-	-	-	-	-
Magnesium (total)	**mg/L**	0.050	-	0.050	98.6	94.9	-	3.82
Manganese	**mg/L**	0.0010	0.001	0.0010	0.521	0.486	0.00	6.95
Mercury	**mg/L**	0.00001	0.00001	0.00001	0.00001	0.00001	0.00	0.00
Molybdenum	**mg/L**	0.0010	0.001	0.0010	0.0041	0.0040	0.00	2.47
Nickel	**mg/L**	0.0010	0.001	0.0010	0.0318	0.0292	0.00	8.52
Potassium (total)	**mg/L**	0.050	-	0.050	34.8	32.1	-	8.07
Selenium	**mg/L**	0.00010	0.0001	0.00010	0.00038	0.00036	0.00	5.41
Silicon	**mg/L**	-	-	-	-	-	-	-
Silver	**mg/L**	0.000020	0.00002	0.000020	0.000040	0.000040	0.00	0.00
Sodium (total)	**mg/L**	0.050	-	0.050	427	396	-	7.53

Strontium	**mg/L**	-	0.001	-	-	-	-	-
Thallium	**mg/L**	0.000010	0.00001	0.000010	0.000033	0.000031	0.00	6.25
Tin	**mg/L**	-	0.005	-	-	-	-	-
Titanium	**mg/L**	0.0050	0.005	0.0050	0.010	0.010	0.00	0.00
Uranium	**mg/L**	-	0.0001	-	-	-	-	-
Vanadium	**mg/L**	-	0.005	-	-	-	-	-
Zinc	**mg/L**	0.0050	0.005	0.0050	0.016	0.014	0.00	13.33
Zirconium	**mg/L**	-	-	-	-	-	-	-
WQ07- Dissolved Metals								
Aluminum	**mg/L**	0.0030	0.003	0.0030	0.0060	0.0060	0.00	0.00
Antimony	**mg/L**	-	-	-	-	-	-	-
Arsenic	**mg/L**	0.00010	0.0001	0.00010	0.00485	0.00473	0.00	2.51
Barium	**mg/L**	0.0010	0.001	0.0010	0.0686	0.0693	0.00	1.02
Beryllium	**mg/L**	-	-	-	-	-	-	-
Bismuth	**mg/L**	-	-	-	-	-	-	-
Boron	**mg/L**	-	-	-	-	-	-	-
Cadmium	**mg/L**	0.000010	0.00001	0.000010	0.000066	0.000076	0.00	14.08
Calcium (Dissolved)	**mg/L**	0.050	-	0.050	337	338	-	0.30
Chromium	**mg/L**	0.0010	0.001	0.0010	0.0020	0.0020	0.00	0.00
Cobalt	**mg/L**	-	-	-	-	-	-	-
Copper	**mg/L**	0.00020	0.0002	0.00020	0.00334	0.00352	0.00	5.25
Iron	**mg/L**	0.0050	0.005	0.0050	0.078	0.076	0.00	2.60
Lead	**mg/L**	0.00020	0.0002	0.00020	0.00040	0.00040	0.00	0.00
Lithium	**mg/L**	-	-	-	-	-	-	-
Magnesium (Dissolv	**mg/L**	0.050	-	0.050	102	103	-	0.98
Manganese	**mg/L**	0.0010	0.001	0.0010	0.522	0.521	0.00	0.19
Mercury	**mg/L**	0.00001	0.00001	0.00001	0.00001	0.00001	0.00	0.00
Molybdenum	**mg/L**	0.0010	0.001	0.0010	0.0040	0.0040	0.00	0.00
Nickel	**mg/L**	0.0010	0.001	0.0010	0.0324	0.0326	0.00	0.62
Potassium (Dissolve	**mg/L**	0.050	-	0.050	37.4	37.6	-	0.53
Selenium	**mg/L**	0.00010	0.0001	0.00010	0.00045	0.00042	0.00	6.90
Silicon	**mg/L**	-	-	-	-	-	-	-
Silver	**mg/L**	0.000020	0.00002	0.000020	0.000040	0.000040	0.00	0.00
Sodium (Dissolved)	**mg/L**	0.050	-	0.050	429	433	-	0.93
Strontium	**mg/L**	-	-	-	-	-	-	-
Thallium	**mg/L**	0.000010	0.00001	0.000010	0.000037	0.000040	0.00	7.79
Tin	**mg/L**	-	-	-	-	-	-	-
Titanium	**mg/L**	-	-	-	-	-	-	-
Uranium	**mg/L**	-	-	-	-	-	-	-
Vanadium	**mg/L**	-	-	-	-	-	-	-
Zinc	**mg/L**	0.0050	0.005	0.0050	0.014	0.014	0.00	0.00
Zirconium	**mg/L**	-	-	-	-	-	-	-
% Exceedance*							1%	0%

Footnotes:

RPD = Relative Percent Difference; MDL: Method Detection Limit

All value "<DL" have been replaced by "DL".

* Although usually consistent, in the rare event that there were two different RDLs for different sampling events, the lower one was used. This may cause artifical 10x MDL exceedances.

Bold values correspond to a RPD higher than 20% and for which concentrations of parent and duplicate samples are within 10x the MDL.

Grey shaded cells correspond to a RPD higher than 20% and for which concentrations of parent and duplicate samples are above 10x the MDL.

Bold & Italic values correspond to a RPD higher than 20% and for which one of the result is within 10X the MDL and the other one exceeds 10x the MDL.

MEL-23	CCME	Sample date	Average						6/8/2025	6/15/2025	7/7/2025	8/4/2025	9/3/2025	10/2/2025
Parameter	Guideline	Unit	2020	2021	2022	2023	2024	2025						
WQ01- Field Measured														
Temperature		°C	11.41	5.08	9.5	9.93	8.08	9.72	2.50	3.20	18.40	13.70	13.30	7.20
pH	6.5 to 9.0	pH units	7.88	7.97	7.74	7.97	7.98	7.87	7.63	7.91	7.94	7.22	8.38	8.11
Conductivity		uS/cm	4688.86	5400	4561	4,692.43	2,419.17	7090.33	580.00	658.00	5059.00	12836.00	13333.00	10076.00
Dissolved oxygen		mg/L	8.87	9.86	10.25	8.60	11.70	7.89	11.51	12.46	8.51	1.74	3.24	9.89
Dissolved oxygen		%	78.8	78.75	80.7	85.10	96.67	67.63	84.50	93.30	93.00	17.50	32.50	85.00
WQ02- Conventional Parameters														
pH	6.5 to 9.0	pH units	7.95	7.93	7.87	7.90	7.90	7.87	7.60	7.79	7.84	8.04	8.04	7.91
Turbidity		NTU	30.14	18.77	2.4	2.00	3.28	11.38	46.00	7.10	1.80	2.00	0.40	11.00
Hardness, as CaCO3		mg/L	679.14	681.83	762	546.71	623.33	841.67	108.00	149.00	952.00	901.00	1630.00	1310.00
Total alkalinity, as CaCO3		mg/L	158.57	115.17	116	101.00	101.00	97.83	21.00	36.00	110.00	120.00	160.00	140.00
TDS		mg/L	2521.43	1994.17	2387	2,111.43	2,540.00	2607.50	15.00	410.00	3280.00	2610.00	5210.00	4120.00
TDS, calculated		mg/L	-	2766.67	2526	1,998.57	2,343.33	2506.67	180.00	360.00	3100.00	2400.00	5100.00	3900.00
TSS		mg/L	42.14	21.17	9	6.86	6.50	9.83	17.00	10.00	5.00	5.00	5.00	17.00
WQ03- Major Ions														
Chloride	120	mg/L	1107.14	736.67	960	818.57	926.17	964.53	7.20	120.00	1200.00	860.00	2000.00	1600.00
Cyanide		mg/L	0.01	0.02	0.00213	0	0.003	0.00	< 0.00050	0.00	0.00	0.00	0.00	0.00
Fluoride		mg/L	0.26	0.2	0.21	0.19	0.19	0.17	< 0.10	< 0.10	0.19	0.22	0.28	0.25
Silica		mg/L	-	5.27	3.6	1.97	2.15	3.01	0.77	0.90	3.60	4.40	4.80	3.60
Sulfate	128	mg/L	351.29	485	572	398.86	463.33	606.00	73.00	93.00	770.00	670.00	1200.00	830.00
WQ04- Nutrients and Chlorophyll a														
Ammonia Nitrogen (as N)		mg/L	5.33	9.38	5.0	0.67	1.75	2.58	0.50	0.70	4.40	2.40	4.90	2.60
Nitrate (as N)	13	mg/L	8.64	18.91	16.81	6.25	9.71	11.88	0.15	1.80	16.50	13.50	24.30	15.00
Nitrite (as N)	0.06	mg/L	0.31	0.22	0.440	0.15	0.19	0.25	< 0.010	0.04	0.30	0.30	0.48	0.37
Total phosphorus		mg/L	0.14	0.04	0.023	0.02	0.01	0.02	< 0.020	< 0.020	< 0.020	< 0.020	0.02	0.04
Orthophosphate (P)		mg/L	0.01	0.01	0.005	0.01	0.01	0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
WQ06- Total Metals														
Aluminum		mg/L	1.33829	0.32533	0.180	0.12653	0.23900	0.16058	0.27	0.17	0.10	0.05	< 0.015	0.37
Arsenic	0.005	mg/L	0.02077	0.01039	0.00949	0.01163	0.01542	0.01613	0.01	0.01	0.01	0.02	0.02	0.02
Barium		mg/L	0.0945	0.05442	0.0532	0.03250	0.07275	0.03577	0.01	0.01	0.04	0.04	0.06	0.05
Cadmium	0.00006	mg/L	0.00006	0.00007	0.000103	0.00007	0.00052	0.00011	0.00	0.00	0.00	0.00	0.00	0.00
Chromium		mg/L	0.0054	0.00113	0.0011	0.00121	0.05033	0.00142	0.00	< 0.0010	< 0.0020	< 0.0020	< 0.0050	< 0.0050
Copper	0.002	mg/L	0.00732	0.01048	0.00466	0.00384	0.02628	0.00285	0.00	0.00	0.00	0.00	0.00	0.01
Iron	0.3	mg/L	2.28529	0.63717	0.288	0.20943	0.65600	0.28383	0.57	0.36	0.14	0.08	< 0.050	0.54
Lead	0.001	mg/L	0.00263	0.00171	0.00076	0.00060	0.01066	0.00088	0.00	0.00	0.00	< 0.00040	< 0.0010	0.00
Manganese		mg/L	0.40727	0.3985	0.418	0.16887	0.16898	0.25122	0.05	0.06	0.41	0.21	0.40	0.37
Mercury	0.000026	mg/L	0.00005	0.00001	0.000005	0.00001	0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	0.073	mg/L	0.01463	0.0103	0.0100	0.00704	0.05398	0.00762	0.00	0.00	0.01	0.01	0.01	0.01
Nickel	0.025	mg/L	0.061	0.06252	0.0678	0.04551	0.08767	0.08053	0.01	0.01	0.10	0.09	0.16	0.11
Selenium	0.001	mg/L	0.00125	0.00137	0.00142	0.00076	0.00575	0.00155	0.00	0.00	0.00	0.00	0.00	0.00
Silver	0.0025	mg/L	0.00005	0.00002	0.000022	0.00002	0.00102	0.00001	< 0.000020	< 0.000020	< 0.000040	< 0.000040	< 0.00010	< 0.00010
Thallium	0.0008	mg/L	0.00005	0.00003	0.000023	0.00002	0.00050	0.00002	< 0.000010	< 0.000010	0.00	0.00	< 0.000050	< 0.000050
Zinc	0.03	mg/L	0.01484	0.00417	0.0055	0.00571	0.24750	0.00667	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.025	< 0.025
WQ07- Dissolved Metals														
Calcium (Dissolved)		mg/L	119.17	142.93333	159.6	107.41429	123.98333	177.88	26.10	34.20	194.00	192.00	378.00	243.00
Magnesium (Dissolved)		mg/L	89.7	75.3	90.4	74.98571	96.95167	101.57	10.50	13.90	121.00	95.00	206.00	163.00
Potassium (Dissolved)		mg/L	40.19	39.58333	41.9	29.33286	35.05500	39.76	4.43	5.74	49.00	39.60	80.20	59.60

MEL-24 Parameter	CCME Guideline	Sample date Unit	*Average* *2025*	6/15/2025	8/2/2025	9/2/2025	9/28/2025
WQ01- Field Measured							
Temperature		°C	*9.55*	9.20	11.60	12.20	5.20
pH	6.5 to 9.0	pH units	*8.01*	7.74	7.96	8.09	8.23
Conductivity		uS/cm	*5261.00*	3642.00	4867.00	5981.00	6554.00
Dissolved oxygen		mg/L	*5.30*	0.49	6.36	9.61	4.73
Dissolved oxygen		%	*50.85*	4.40	69.50	91.40	38.10
WQ02- Conventional Parameters							
pH	6.5 to 9.0	pH units	*7.52*	7.53	7.52	7.40	7.62
Turbidity		NTU	*70.75*	17.00	65.00	71.00	130.00
Hardness, as CaCO3		mg/L	*1600.00*	1210.00	1600.00	1680.00	1910.00
Total alkalinity, as CaCO3		mg/L	*227.50*	280.00	250.00	180.00	200.00
TDS		mg/L	*3980.00*	2980.00	3670.00	4540.00	4730.00
TDS, calculated		mg/L	*3600.00*	2600.00	3400.00	4100.00	4300.00
TSS		mg/L	*76.50*	19.00	45.00	62.00	180.00
WQ03- Major Ions							
Chloride	120	mg/L	*905.00*	520.00	800.00	1100.00	1200.00
Cyanide		mg/L	*0.04*	0.03	0.04	0.02	0.09
Fluoride		mg/L	*0.36*	0.37	0.35	0.36	0.34
Silica		mg/L	*16.00*	17.00	17.00	14.00	16.00
Sulfate	128	mg/L	*1400.00*	1100.00	1400.00	1500.00	1600.00
WQ04- Nutrients and Chlorophyll a							
Ammonia Nitrogen (as N)		mg/L	*33.25*	34.00	35.00	28.00	36.00
Nitrate (as N)	13	mg/L	*1.38*	4.91	0.46	< 0.10	0.10
Nitrite (as N)	0.06	mg/L	*2.74*	10.20	0.19	< 0.010	0.06
Total phosphorus		mg/L	*0.72*	0.72	0.47	0.60	1.10
Orthophosphate (P)		mg/L	*0.06*	0.03	0.07	< 0.050	< 0.20
WQ06- Total Metals							
Aluminum		mg/L	*0.90*	0.08	0.12	0.50	2.89
Arsenic	0.005	mg/L	*0.57*	0.26	0.65	0.57	0.81
Barium		mg/L	*0.13*	0.27	0.08	0.07	0.10
Cadmium	0.00006	mg/L	*0.00*	0.00	0.00	0.00	0.00
Chromium		mg/L	*0.01*	0.01	0.01	0.01	0.02
Copper	0.002	mg/L	*0.04*	0.05	0.03	0.03	0.07
Iron	0.3	mg/L	*5.78*	1.65	5.45	5.92	10.10
Lead	0.001	mg/L	*0.03*	0.03	0.02	0.01	0.06
Manganese		mg/L	*0.52*	0.57	0.60	0.40	0.51
Mercury	0.000026	mg/L	*0.00*	< 0.00010	< 0.00001	< 0.00010	< 0.00010
Molybdenum	0.073	mg/L	*0.12*	0.03	0.07	0.16	0.24
Nickel	0.025	mg/L	*0.05*	0.03	0.05	0.06	0.08
Selenium	0.001	mg/L	*0.00*	0.00	0.01	0.00	0.00
Silver	0.0025	mg/L	*0.00*	0.00	0.00	0.00	0.00
Thallium	0.0008	mg/L	*0.00*	0.00	< 0.000050	< 0.000050	< 0.000050
Titanium		mg/L	*0.03*	< 0.010	< 0.025	0.03	0.07
Zinc	0.03	mg/L	*1.20*	1.40	1.29	1.16	0.94
WQ07- Dissolved Metals							
Calcium (Dissolved)		mg/L	*574.75*	487.00	569.00	620.00	623.00
Magnesium (Dissolved)		mg/L	*39.35*	25.70	40.90	43.20	47.60
Potassium (Dissolved)		mg/L	*146.38*	86.50	108.00	192.00	199.00
Sodium (Dissolved)		mg/L	*420.50*	222.00	356.00	504.00	600.00

MEL-25	CCME	Sample date	Average						5/25/2025	8/11/2025	9/24/2025
Parameter	Guideline	Unit	2020	2021	2022	2023	2024	2025			
WQ01- Field Measured											
Temperature		°C	*4.6*	*6.68*	*11.8*	*6.70*	-	*11.00*	8.40	8.90	15.70
pH	6.5 to 9.0	pH units	*7.97*	*8.05*	*7.37*	*8.13*	-	*7.40*	7.79	8.32	6.09
Conductivity		uS/cm	*265.65*	*186.48*	*347.3*	*680.50*	-	*775.90*	154.70	1035.00	1138.00
Dissolved oxygen		mg/L	*12.77*	*10.09*	*9.31*	*11.39*	-	*10.61*	12.28	8.93	-
Dissolved oxygen		%	*104.2*	*92.37*	*86.3*	*93.05*	-	*92.87*	105.80	77.40	95.40
WQ02- Conventional Parameters											
pH	6.5 to 9.0	pH units	*7.82*	*7.93*	*8.03*	*8.00*	-	*7.80*	7.11	8.19	8.10
TSS		mg/L	*4.5*	*1.25*	*2*	*0.50*	-	*5.00*	8.00	5.00	2.00
WQ04- Nutrients and Chlorophyll a											
Ammonia Nitrogen (as N)		mg/L	*0.43*	*0.04*	*0.025*	*0.03*	-	*0.05*	0.09	< 0.050	< 0.050
WQ05- General Organics											
Total oil and grease		mg/L	*0.7*	*0.25*	*0.25*	*1.10*	-	*0.52*	0.70	0.60	< 0.50
WQ06- Total Metals											
Arsenic	0.005	mg/L	*0.00195*	*0.00086*	*0.00142*	*0.00140*	-	*0.02*	0.00	0.05	0.00
Copper	0.002	mg/L	*0.00314*	*0.00183*	*0.00246*	*0.00340*	-	*0.00*	0.00	0.00	0.00
Lead	0.001	mg/L	*0.00049*	*0.0001*	*0.00019*	*0.00010*	-	*0.00*	0.00	0.00	< 0.00020
Nickel	0.025	mg/L	*0.00405*	*0.00273*	*0.0033*	*0.00370*	-	*0.00*	0.00	0.00	0.01
-											
Benzene		mg/L	*0.0002*	*0.0001*	*0.00010*	*0.00010*	-	*0.00010*	< 0.00020	< 0.00020	< 0.00020
Ethylbenzene		mg/L	*0.0002*	*0.0001*	*0.00010*	*0.00010*	-	*0.00010*	< 0.00020	< 0.00020	< 0.00020
Toluene		mg/L	*0.0002*	*0.00013*	*0.00015*	*0.00010*	-	*0.00010*	< 0.00020	< 0.00020	< 0.00020
Xylenes		mg/L	*0.0004*	*0.0002*	*0.00020*	*0.00020*	-	*0.00020*	< 0.00040	< 0.00040	< 0.00040
m,p-Xylenes		mg/L	*0.0004*	*0.0002*	-	-	-	*0.00020*	< 0.00040	< 0.00040	< 0.00040
o-Xylene		mg/L	*0.0002*	*0.0001*	-	-	-	*0.00010*	< 0.00020	< 0.00020	< 0.00020
F1 (C6-C10)-BTEX		mg/L	*0.025*	*0.0125*	-	-	-	-	-	-	-
F1 (C6-C10)		mg/L	*0.025*	*0.0125*	*0.013*	*0.01250*	-	-	-	-	-
F2 (C10-C16)		mg/L	*0.1*	*0.05*	*0.05*	*0.05000*	-	*0.04500*	< 0.09	< 0.09	< 0.09
F3 (C16-C34)		mg/L	*0.2*	*0.1*	*0.1*	*0.10000*	-	*0.10000*	< 0.2	< 0.2	< 0.2
F4 (C34-C50)		mg/L	*0.2*	*0.1*	*0.1*	*0.10000*	-	*0.10000*	< 0.2	< 0.2	< 0.2

MEL-32 Parameter	CCME Guideline	Sample date Unit	*Average* *2025*	6/15/2025	7/7/2025	8/2/2025	9/2/2025
WQ01- Field Measured							
Dissolved oxygen		mg/L	*8.70*	11.14	9.85	5.58	8.22
WQ02- Conventional Parameters							
pH	6.5 to 9.0	pH units	*8.03*	8.02	7.99	8.09	8.01
Dissolved Oxygen		%	*76.55*	105.10	84.10	47.40	69.60
Turbidity		NTU	*35.05*	18.00	19.00	3.20	100.00
Hardness, as CaCO3		mg/L	*362.50*	120.00	150.00	321.00	859.00
Total alkalinity, as CaCO3		mg/L	*121.50*	83.00	93.00	100.00	210.00
TDS		mg/L	*1298.75*	335.00	350.00	1170.00	3340.00
TDS, calculated		mg/L	*1302.50*	280.00	330.00	1100.00	3500.00
TSS		mg/L	*23.25*	16.00	17.00	12.00	48.00
WQ03- Major Ions							
Chloride	120	mg/L	*475.00*	69.00	81.00	350.00	1400.00
Cyanide		mg/L	*0.02*	0.01	0.00	0.04	0.02
Fluoride		mg/L	*0.14*	< 0.10	< 0.10	0.16	0.28
Silica		mg/L	*3.78*	2.10	2.50	4.40	6.10
Sulfate	128	mg/L	*268.75*	59.00	76.00	280.00	660.00
WQ04- Nutrients and Chlorophyll a							
Ammonia Nitrogen (as N)		mg/L	*3.88*	2.30	2.00	6.30	4.90
Nitrate (as N)	13	mg/L	*3.75*	2.04	1.98	6.69	4.27
Nitrite (as N)	0.06	mg/L	*0.27*	0.09	0.11	0.73	0.14
Total phosphorus		mg/L	*0.04*	0.03	0.02	< 0.020	0.11
Orthophosphate (P)		mg/L	*0.01*	< 0.010	< 0.010	< 0.010	< 0.050
WQ06- Total Metals							
Aluminum		mg/L	*0.91*	0.75	0.48	0.14	2.28
Arsenic	0.005	mg/L	*0.07*	0.01	0.01	0.03	0.24
Barium		mg/L	*0.04*	0.03	0.03	0.05	0.05
Cadmium	0.00006	mg/L	*0.00*	0.00	< 0.000010	0.00	< 0.000050
Chromium		mg/L	*0.00*	0.00	0.00	< 0.0010	0.01
Copper	0.002	mg/L	*0.01*	0.00	0.00	0.00	0.01
Iron	0.3	mg/L	*2.22*	1.52	0.93	0.34	6.08
Lead	0.001	mg/L	*0.00*	0.00	0.00	0.00	0.00
Manganese		mg/L	*0.12*	0.07	0.06	0.12	0.22
Mercury	0.000026	mg/L	*0.00*	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	0.073	mg/L	*0.01*	0.00	0.00	0.01	0.01
Nickel	0.025	mg/L	*0.01*	0.01	0.01	0.01	0.03
Selenium	0.001	mg/L	*0.00*	0.00	0.00	0.00	0.00
Silver	0.0025	mg/L	*0.00*	< 0.000020	< 0.000020	< 0.000020	< 0.00010
Thallium	0.0008	mg/L	*0.00*	0.00	< 0.000010	0.00	< 0.000050
Titanium		mg/L	*0.03*	0.04	0.03	0.01	0.04
Zinc	0.03	mg/L	*0.01*	0.01	< 0.0050	< 0.0050	< 0.025
WQ07- Dissolved Metals							
Calcium (Dissolved)		mg/L	*77.43*	36.70	43.20	74.80	155.00
Magnesium (Dissolved)		mg/L	*48.05*	7.77	8.61	28.80	147.00
Potassium (Dissolved)		mg/L	*21.45*	5.94	6.24	23.00	50.60
Sodium (Dissolved)		mg/L	*305.78*	45.60	46.50	263.00	868.00

MEL-SR1	Sample date	Average	5/28/2025	6/7/2025	7/28/2025	8/11/2025	9/6/2025	10/4/2025
Parameter	**Unit**	2025						
WQ01- Field Measured								
Temperature	°C	7.47	4.30	9.60	9.50	7.80	7.50	6.10
pH	pH units	7.88	7.53	7.64	7.96	7.84	8.41	7.91
Conductivity	uS/cm	1505.40	630.40	661.00	1002.00	1831.00	2915.00	1993.00
Dissolved oxygen	mg/L	10.95	14.38	8.26	11.44	9.47	9.92	12.20
Dissolved oxygen	%	90.85	110.70	72.60	100.50	80.00	83.60	97.70
Turbidity	NTU	6.41	23.30	3.00	1.80	6.39	0.99	2.98
WQ02- Conventional Parameters								
pH	pH units	8.03	7.89	8.00	8.24	7.95	8.05	8.02
Turbidity	NTU	1.65	5.40	1.30	1.00	1.40	0.30	0.50
Hardness, as CaCO3	mg/L	378.28	99.40	203.00	329.00	-	709.00	551.00
Total alkalinity, as Ca	mg/L	177.33	74.00	120.00	180.00	220.00	240.00	230.00
TDS	mg/L	882.50	170.00	390.00	665.00	1030.00	1780.00	1260.00
TDS, calculated	mg/L	811.67	190.00	360.00	560.00	960.00	1700.00	1100.00
TSS	mg/L	3.67	16.00	2.00	1.00	1.00	1.00	1.00
WQ03- Major Ions								
Chloride	mg/L	279.67	40.00	88.00	130.00	310.00	740.00	370.00
Cyanide	mg/L	0.00	< 0.00050	< 0.0005	< 0.0005	0.00	0.00	< 0.00050
Fluoride	mg/L	0.11	< 0.10	< 0.1	0.11	0.11	0.16	0.16
Silica	mg/L	3.32	1.30	1.40	3.60	4.70	4.50	4.40
Sulfate	mg/L	160.33	46.00	76.00	130.00	180.00	270.00	260.00
WQ04- Nutrients and Chlorophyll a								
Ammonia Nitrogen (a	mg/L	0.08	< 0.050	0.07	< 0.05	< 0.05	0.07	0.24
Nitrate (as N)	mg/L	0.29	< 0.10	< 0.1	< 0.1	0.11	0.82	0.67
Nitrite (as N)	mg/L	0.01	< 0.010	< 0.01	< 0.01	< 0.01	< 0.010	0.02
Total phosphorus	mg/L	0.01	< 0.020	< 0.02	< 0.02	< 0.02	< 0.020	< 0.020
Orthophosphate (P)	mg/L	0.01	< 0.010	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010
WQ05- General Organics								
Total oil and grease	mg/L	0.25	< 0.50	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50
WQ06- Total Metals								
Aluminum	mg/L	0.0702	0.23	0.05	0.04	0.07	0.02	0.02
Arsenic	mg/L	0.0045	0.00	0.00	0.00	0.01	0.01	0.01
Barium	mg/L	0.0505	0.02	0.03	0.05	0.07	0.08	0.06
Cadmium	mg/L	0.0000	0.00	< 0.00001	< 0.00001	0.00	0.00	0.00
Chromium	mg/L	0.0008	0.00	< 0.001	< 0.001	< 0.001	< 0.0020	< 0.0010
Copper	mg/L	0.0035	0.00	0.00	0.00	0.00	0.00	0.00
Iron	mg/L	0.1905	0.48	0.13	0.15	0.25	0.07	0.07
Lead	mg/L	0.0002	0.00	< 0.0002	< 0.0002	< 0.0002	< 0.00040	< 0.00020

Manganese	mg/L	0.0287	0.06	0.02	0.01	0.05	0.01	0.02
Mercury	mg/L	0.0000	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	mg/L	0.0010	< 0.0010	0.00	0.00	0.00	< 0.0020	0.00
Nickel	mg/L	0.0186	0.00	0.01	0.01	0.02	0.05	0.03
Selenium	mg/L	0.0001	< 0.00010	< 0.0001	< 0.0001	0.00	< 0.00020	0.00
Silver	mg/L	0.0000	< 0.000020	< 0.00002	< 0.00002	< 0.00002	< 0.000040	< 0.000020
Thallium	mg/L	0.0000	< 0.000010	0.00	< 0.00001	-	< 0.000020	0.00
Titanium	mg/L	0.0041	0.01	< 0.005	< 0.005	< 0.005	< 0.010	< 0.0050
Zinc	mg/L	0.0258	0.02	0.01	0.01	0.03	0.07	0.02
WQ07- Dissolved Metals								
Calcium (Dissolved)	mg/L	113.02	36.90	65.20	109.00	159.00	176.00	132.00
Magnesium (Dissolve	mg/L	26.30	5.41	10.70	17.80	31.90	55.20	36.80
Potassium (Dissolved	mg/L	12.28	3.40	6.24	9.43	15.90	22.00	16.70
Sodium (Dissolved)	mg/L	123.00	17.50	40.00	61.50	136.00	318.00	165.00

		Sample date	9/6/2025					
		Sample type	Lab Blank	Field Blank	Original	Duplicate		
		LAB_SDG	C5B2465	C5B2465	C5B2465	C5B2465	C5B2465	C5B2465
Parameter	**Unit**	**MDL**					**RPD (LB/FB)**	**RPD (N/FD)**
WQ02- Conventional Parameters								
pH	**pH units**	-	-	5.87	8.05	8.08	-	0.37
Dissolved Oxygen	%	-	-	-	83.6	83.6	-	0.00
Turbidity	**NTU**	0.1	0.1	0.1	0.3	0.3	0.00	0.00
Hardness, as CaCO3	**mg/L**	0.50	-	0.50	709	742	-	4.55
Hardness, as CaCO3-D	**mg/L**	0.50	-	0.50	667	683	-	2.37
Total alkalinity, as Ca	**mg/L**	1.0	1	1.0	240	240	0.00	0.00
TDS	**mg/L**	10	10	10	1780	1740	0.00	2.27
TDS, calculated	**mg/L**	1.0	-	1.0	1700	1700	-	0.00
TSS	**mg/L**	1	1	1	1	2	0.00	**66.67**
WQ03- Major Ions								
Chloride	**mg/L**	1.0	1	1.0	740	730	0.00	1.36
Cyanide	**mg/L**	0.00050	0.0005	0.00050	0.00068	0.00066	0.00	2.99
Fluoride	**mg/L**	0.10	0.1	0.10	0.16	0.15	0.00	6.45
Silica	**mg/L**	0.050	0.05	0.050	4.5	4.5	0.00	0.00
Sulfate	**mg/L**	0.50	-	0.50	270	270	-	0.00
WQ04- Nutrients and Chlorophyll a								
Ammonia Nitrogen (a	**mg/L**	0.050	0.05	0.050	0.073	0.077	0.00	5.33
Nitrate (as N)	**mg/L**	0.10	0.1	0.10	0.82	0.83	0.00	1.21
Nitrite (as N)	**mg/L**	0.010	0.01	0.010	0.010	0.010	0.00	0.00
Nitrate + nitrite (as N	**mg/L**	0.10	-	0.10	0.82	0.83	-	1.21
Total phosphorus	**mg/L**	0.020	0.02	0.020	0.020	0.020	0.00	0.00
Orthophosphate (P)	**mg/L**	0.010	0.01	0.010	0.010	0.010	0.00	0.00
WQ05- General Organics								
Total oil and grease	**mg/L**	0.50	0.5	0.50	0.50	0.50	0.00	0.00
WQ06- Total Metals								
Aluminum	**mg/L**	0.0030	0.003	0.0030	0.0184	0.0238	0.00	**25.59**
Antimony	**mg/L**	-	0.0005	-	-	-	-	-
Arsenic	**mg/L**	0.00010	0.0001	0.00010	0.00867	0.00907	0.00	4.51
Barium	**mg/L**	0.0010	0.001	0.0010	0.0792	0.0804	0.00	1.50
Beryllium	**mg/L**	-	0.0001	-	-	-	-	-
Boron	**mg/L**	-	0.05	-	-	-	-	-
Cadmium	**mg/L**	0.000010	0.00001	0.000010	0.000062	0.000061	0.00	1.63
Calcium (total)	**mg/L**	0.050	-	0.050	176	184	-	4.44
Chromium	**mg/L**	0.0010	0.001	0.0010	0.0020	0.0020	0.00	0.00
Copper	**mg/L**	0.00050	0.0005	0.00050	0.0041	0.0041	0.00	0.00
Iron	**mg/L**	0.010	0.01	0.010	0.072	0.097	0.00	**29.59**
Lead	**mg/L**	0.00020	0.0002	0.00020	0.00040	0.00040	0.00	0.00
Lithium	**mg/L**	-	0.002	-	-	-	-	-
Magnesium (total)	**mg/L**	0.050	-	0.050	65.7	68.6	-	4.32
Manganese	**mg/L**	0.0010	0.001	0.0010	0.0136	0.0139	0.00	2.18
Mercury	**mg/L**	0.00001	0.00001	0.00001	0.00001	0.00001	0.00	0.00
Molybdenum	**mg/L**	0.0010	0.001	0.0010	0.0020	0.0020	0.00	0.00
Nickel	**mg/L**	0.0010	0.001	0.0010	0.0475	0.0478	0.00	0.63
Potassium (total)	**mg/L**	0.050	-	0.050	23.1	23.8	-	2.99
Selenium	**mg/L**	0.00010	0.0001	0.00010	0.00020	0.00020	0.00	0.00

Silver	**mg/L**	0.000020	0.00002	0.000020	0.000040	0.000040	0.00	0.00
Sodium (total)	**mg/L**	0.050	-	0.050	341	346	-	1.46
Strontium	**mg/L**	-	0.001	-	-	-	-	-
Thallium	**mg/L**	0.000010	0.00001	0.000010	0.000020	0.000020	0.00	0.00
Tin	**mg/L**	-	0.005	-	-	-	-	-
Titanium	**mg/L**	0.0050	0.005	0.0050	0.010	0.010	0.00	0.00
Uranium	**mg/L**	-	0.0001	-	-	-	-	-
Vanadium	**mg/L**	-	0.005	-	-	-	-	-
Zinc	**mg/L**	0.0050	0.005	0.0050	0.070	0.070	0.00	0.00
WQ07- Dissolved Metals								
Aluminum	**mg/L**	0.0030	0.003	0.0030	0.0060	0.0060	0.00	0.00
Antimony	**mg/L**	-	0.00050	-	-	-	-	-
Arsenic	**mg/L**	0.00010	0.0001	0.00010	0.00780	0.00765	0.00	1.94
Barium	**mg/L**	0.0010	0.001	0.0010	0.0759	0.0781	0.00	2.86
Beryllium	**mg/L**	-	0.00010	-	-	-	-	-
Boron	**mg/L**	-	0.050	-	-	-	-	-
Cadmium	**mg/L**	0.000010	0.00001	0.000010	0.000027	0.000020	0.00	**29.79**
Calcium (Dissolved)	**mg/L**	0.050	-	0.050	176	179	-	1.69
Chromium	**mg/L**	0.0010	0.001	0.0010	0.0020	0.0020	0.00	0.00
Copper	**mg/L**	0.00020	0.0002	0.00020	0.00324	0.00330	0.00	1.83
Iron	**mg/L**	0.0050	0.005	0.0050	0.030	0.028	0.00	6.90
Lead	**mg/L**	0.00020	0.0002	0.00020	0.00040	0.00040	0.00	0.00
Lithium	**mg/L**	-	0.0020	-	-	-	-	-
Magnesium (Dissolve	**mg/L**	0.050	-	0.050	55.2	57.0	-	3.21
Manganese	**mg/L**	0.0010	0.001	0.0010	0.0145	0.0149	0.00	2.72
Molybdenum	**mg/L**	0.0010	0.001	0.0010	0.0020	0.0020	0.00	0.00
Nickel	**mg/L**	0.0010	0.001	0.0010	0.0512	0.0509	0.00	0.59
Potassium (Dissolved	**mg/L**	0.050	-	0.050	22.0	22.4	-	1.80
Selenium	**mg/L**	0.00010	0.0001	0.00010	0.00020	0.00020	0.00	0.00
Silver	**mg/L**	0.000020	0.00002	0.000020	0.000040	0.000040	0.00	0.00
Sodium (Dissolved)	**mg/L**	0.050	-	0.050	318	322	-	1.25
Strontium	**mg/L**	-	0.0010	-	-	-	-	-
Thallium	**mg/L**	0.000010	0.00001	0.000010	0.000020	0.000020	0.00	0.00
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	0.005	0.0050	0.069	0.069	0.00	0.00
% Exceedance*							0%	0%

Footnotes:

RPD = Relative Percent Difference; MDL: Method Detection Limit

All value "<DL" have been replaced by "DL".

* Although usually consistent, in the rare event that there were two different RDLs for different sampling events, the lower one was used. This may cause artifical 10x MDL exceedances.

Bold values correspond to a RPD higher than 20% and for which concentrations of parent and duplicate samples are within 10x the MDL.

Grey shaded cells correspond to a RPD higher than 20% and for which concentrations of parent and duplicate samples are above 10x the MDL.

Bold & Italic values correspond to a RPD higher than 20% and for which one of the result is within 10X the MDL and the other one exceeds 10x the MDL.

	MEL-SR-11	Average	6/7/2025
Parameter	**Unit**	2025	
WQ01- Field Measured			
Temperature	°C	10.80	10.80
pH	pH units	7.82	7.82
Conductivity	uS/cm	196.30	196.30
Dissolved oxygen	mg/L	10.95	14.38
Dissolved oxygen	%	87.40	87.40
Turbidity	NTU	3.00	3.00
WQ02- Conventional Parameters			
pH	pH units	7.92	7.92
Dissolved Oxygen	%	87.4	87.4
Turbidity	NTU	1.4	1.4
Hardness, as CaCO3	mg/L	70.9	70.9
Hardness, as CaCO3-I	mg/L	64.9	64.9
Total alkalinity, as Ca	mg/L	61	61
TDS	mg/L	115	115
TDS, calculated	mg/L	100	100
TSS	mg/L	4	4
WQ03- Major Ions			
Chloride	mg/L	12	12
Cyanide	mg/L	0.00025	< 0.0005
Fluoride	mg/L	0.13	0.13
Silica	mg/L	1.7	1.7
Sulfate	mg/L	21	21
WQ04- Nutrients and Chlorophyll a			
Ammonia Nitrogen (a	mg/L	0.03	< 0.05
Nitrate (as N)	mg/L	0.21	0.21
Nitrite (as N)	mg/L	0.011	0.011
Nitrate + nitrite (as N	mg/L	0.22	0.22
Total phosphorus	mg/L	0.01	< 0.02
Orthophosphate (P)	mg/L	0.005	< 0.01
WQ05- General Organics			
Total oil and grease	mg/L	0.25	< 0.5
WQ06- Total Metals			
Aluminum	mg/L	0.036	0.036
Arsenic	mg/L	0.00176	0.00176
Barium	mg/L	0.011	0.011
Cadmium	mg/L	0.0000	< 0.00001
Calcium (total)	mg/L	21.4	21.4
Chromium	mg/L	0.0005	< 0.001
Copper	mg/L	0.00102	0.00102
Iron	mg/L	0.072	0.072
Lead	mg/L	0.0001	< 0.0002
Magnesium (total)	mg/L	4.23	4.23
Manganese	mg/L	0.0005	< 0.001
Mercury	mg/L	0.0000	< 0.00001

Molybdenum	mg/L	0.0014	0.0014
Nickel	mg/L	0.001	0.001
Potassium (total)	mg/L	2.81	2.81
Selenium	mg/L	0.0001	0.0001
Silver	mg/L	0.0000	< 0.00002
Sodium (total)	mg/L	8.26	8.26
Thallium	mg/L	0.0000	< 0.00001
Titanium	mg/L	0.0025	< 0.005
Zinc	mg/L	0.0025	< 0.005
WQ07- Dissolved Metals			
Aluminum	mg/L	0.0037	0.0037
Arsenic	mg/L	0.00137	0.00137
Barium	mg/L	0.0103	0.0103
Cadmium	mg/L	0.00	< 0.00001
Calcium (Dissolved)	mg/L	20.2	20.2
Chromium	mg/L	0.00	< 0.001
Copper	mg/L	0.00084	0.00084
Iron	mg/L	0.0078	0.0078
Lead	mg/L	0.00	< 0.0002
Magnesium (Dissolve	mg/L	3.52	3.52
Manganese	mg/L	0.00	< 0.001
Molybdenum	mg/L	0.0012	0.0012
Nickel	mg/L	0.00	< 0.001
Potassium (Dissolved	mg/L	2.73	2.73
Selenium	mg/L	0.00	< 0.0001
Silver	mg/L	0.00	< 0.00002
Sodium (Dissolved)	mg/L	7.42	7.42
Thallium	mg/L	0.00	< 0.00001
Zinc	mg/L	0.00	< 0.005

MEL-SR-13	Sample date	Average	6/7/2025
Parameter	**Unit**	2025	
WQ01- Field Measured			
Temperature	°C	5.00	5.00
pH	pH units	7.87	7.87
Conductivity	uS/cm	263.60	263.60
Dissolved oxygen	mg/L	10.95	11.90
Dissolved oxygen	%	93.30	93.30
Turbidity	NTU	9.00	9.00
WQ02- Conventional Parameters			
pH	pH units	7.91	7.91
Dissolved Oxygen	%	93.3	93.3
Turbidity	NTU	1.8	1.8
Hardness, as CaCO3	mg/L	104	104
Hardness, as CaCO3-I	mg/L	94.3	94.3
Total alkalinity, as Ca	mg/L	68	68
TDS	mg/L	225	225
TDS, calculated	mg/L	210	210
TSS	mg/L	2	2
WQ03- Major Ions			
Chloride	mg/L	63	63
Cyanide	mg/L	0.00	< 0.0005
Fluoride	mg/L	0.05	< 0.1
Silica	mg/L	1.4	1.4
Sulfate	mg/L	38	38
WQ04- Nutrients and Chlorophyll a			
Ammonia Nitrogen (a	mg/L	0.06	0.06
Nitrate (as N)	mg/L	0.05	< 0.1
Nitrite (as N)	mg/L	0.01	< 0.01
Nitrate + nitrite (as N	mg/L	0.05	< 0.1
Total phosphorus	mg/L	0.01	< 0.02
Orthophosphate (P)	mg/L	0.01	< 0.01
WQ05- General Organics			
Total oil and grease	mg/L	0.25	< 0.5
WQ06- Total Metals			
Aluminum	mg/L	0.0685	0.0685
Arsenic	mg/L	0.00086	0.00086
Barium	mg/L	0.0139	0.0139
Cadmium	mg/L	0.0000	< 0.00001
Calcium (total)	mg/L	29	29
Chromium	mg/L	0.0005	< 0.001
Copper	mg/L	0.00545	0.00545
Iron	mg/L	0.152	0.152
Lead	mg/L	0.0001	< 0.0002
Magnesium (total)	mg/L	7.79	7.79
Manganese	mg/L	0.0041	0.0041
Mercury	mg/L	0.0000	< 0.00001

Molybdenum	mg/L	0.0005	< 0.001
Nickel	mg/L	0.0024	0.0024
Potassium (total)	mg/L	3.45	3.45
Selenium	mg/L	0.0001	< 0.0001
Silver	mg/L	0.0000	< 0.00002
Sodium (total)	mg/L	36.7	36.7
Thallium	mg/L	0.0000	< 0.00001
Titanium	mg/L	0.0025	< 0.005
Zinc	mg/L	0.0128	0.0128
WQ07- Dissolved Metals			
Aluminum	mg/L	0.0034	0.0034
Arsenic	mg/L	0.0006	0.0006
Barium	mg/L	0.0128	0.0128
Cadmium	mg/L	0.00	< 0.00001
Calcium (Dissolved)	mg/L	27.1	27.1
Chromium	mg/L	0.00	< 0.001
Copper	mg/L	0.00257	0.00257
Iron	mg/L	0.0191	0.0191
Lead	mg/L	0.00	< 0.0002
Magnesium (Dissolve	mg/L	6.49	6.49
Manganese	mg/L	0.0031	0.0031
Molybdenum	mg/L	0.00	< 0.001
Nickel	mg/L	0.002	0.002
Potassium (Dissolved	mg/L	3.37	3.37
Selenium	mg/L	0.00	< 0.0001
Silver	mg/L	0.00	< 0.00002
Sodium (Dissolved)	mg/L	30.7	30.7
Thallium	mg/L	0.00	< 0.00001
Zinc	mg/L	0.0088	0.0088

MEL-SR-14		Average	6/7/2025
Parameter	**Unit**	2025	
WQ01- Field Measured			
Temperature	°C	8.40	8.40
pH	pH units	7.74	7.74
Conductivity	uS/cm	438.20	438.20
Dissolved oxygen	mg/L	10.86	10.86
Dissolved oxygen	%	87.40	87.40
Turbidity	NTU	7.00	7.00
WQ02- Conventional Parameters			
pH	pH units	7.89	7.89
Dissolved Oxygen	%	92.6	92.6
Turbidity	NTU	3.9	3.9
Hardness, as CaCO3	mg/L	60.7	60.7
Hardness, as CaCO3-I	mg/L	54.7	54.7
Total alkalinity, as Ca	mg/L	57	57
TDS	mg/L	155	155
TDS, calculated	mg/L	140	140
TSS	mg/L	7	7
WQ03- Major Ions			
Chloride	mg/L	27	27
Cyanide	mg/L	0.00	< 0.0005
Fluoride	mg/L	0.1	0.1
Silica	mg/L	1.8	1.8
Sulfate	mg/L	36	36
WQ04- Nutrients and Chlorophyll a			
Ammonia Nitrogen (a	mg/L	0.03	< 0.05
Nitrate (as N)	mg/L	0.05	< 0.1
Nitrite (as N)	mg/L	0.01	< 0.01
Nitrate + nitrite (as N	mg/L	0.05	< 0.1
Total phosphorus	mg/L	0.01	< 0.02
Orthophosphate (P)	mg/L	0.01	< 0.01
WQ05- General Organics			
Total oil and grease	mg/L	0.25	< 0.5
WQ06- Total Metals			
Aluminum	mg/L	0.159	0.159
Arsenic	mg/L	0.00108	0.00108
Barium	mg/L	0.0123	0.0123
Cadmium	mg/L	0.00	< 0.00001
Calcium (total)	mg/L	16.3	16.3
Chromium	mg/L	0.001	0.001
Copper	mg/L	0.00765	0.00765
Iron	mg/L	0.297	0.297
Lead	mg/L	0.00	< 0.0002
Magnesium (total)	mg/L	4.84	4.84
Manganese	mg/L	0.005	0.005
Mercury	mg/L	0.00	< 0.00001

Molybdenum	mg/L	0.00	< 0.001
Nickel	mg/L	0.00	0.003
Potassium (total)	mg/L	2.84	2.84
Selenium	mg/L	0.00	< 0.0001
Silver	mg/L	0.00	< 0.00002
Sodium (total)	mg/L	28.2	28.2
Thallium	mg/L	0.00	< 0.00001
Titanium	mg/L	0.0053	0.0053
Zinc	mg/L	0.0263	0.0263
WQ07- Dissolved Metals			
Aluminum	mg/L	0.0091	0.0091
Arsenic	mg/L	0.00082	0.00082
Barium	mg/L	0.0108	0.0108
Cadmium	mg/L	0.00	< 0.00001
Calcium (Dissolved)	mg/L	15.5	15.5
Chromium	mg/L	0.00	< 0.001
Copper	mg/L	0.00691	0.00691
Iron	mg/L	0.0173	0.0173
Lead	mg/L	0.00	< 0.0002
Magnesium (Dissolve	mg/L	3.86	3.86
Manganese	mg/L	0.0015	0.0015
Molybdenum	mg/L	0.00	< 0.001
Nickel	mg/L	0.0025	0.0025
Potassium (Dissolved	mg/L	2.67	2.67
Selenium	mg/L	0.00	< 0.0001
Silver	mg/L	0.00	< 0.00002
Sodium (Dissolved)	mg/L	22.7	22.7
Thallium	mg/L	0.00	< 0.00001
Zinc	mg/L	0.0163	0.0163

MEL-SR-15	Sample date	Average	5/25/2025	5/26/2025	6/9/2025	10/30/2025
Parameter	**Unit**	2025				
WQ01- Field Measured						
Temperature	°C	8.40	0.20	15.50	9.50	-
pH	pH units	7.96	8.15	7.77	7.96	-
Conductivity	uS/cm	392.80	87.30	89.10	1002.00	-
Dissolved oxygen	mg/L	10.95	17.28	15.50	11.44	9.47
Dissolved oxygen	%	108.07	119.10	104.60	100.50	-
Turbidity	NTU	17.47	32.30	18.30	1.80	-
WQ02- Conventional Parameters						
pH	pH units	7.55	7.46	7.44	7.64	7.66
Dissolved Oxygen	%	82.68	119.10	104.60	107.00	0.00
Turbidity	NTU	5.13	14.00	2.00	0.20	4.30
Hardness, as CaCO3	mg/L	72.65	26.90	20.80	59.90	183.00
Hardness, as CaCO3-I	mg/L	74.05	24.90	25.80	60.50	185.00
Total alkalinity, as Ca	mg/L	45.00	15.00	17.00	38.00	110.00
TDS	mg/L	171.25	45.00	35.00	165.00	440.00
TDS, calculated	mg/L	145.75	57.00	46.00	130.00	350.00
TSS	mg/L	9.00	13.00	11.00	4.00	8.00
WQ03- Major Ions						
Chloride	mg/L	44.85	11.00	9.40	49.00	110.00
Cyanide	mg/L	0.00	< 0.00050	< 0.00050	< 0.0005	0.00
Fluoride	mg/L	0.07	< 0.10	< 0.10	< 0.1	0.12
Silica	mg/L	1.22	0.73	0.43	0.51	3.20
Sulfate	mg/L	22.50	23.00	12.00	15.00	40.00
WQ04- Nutrients and Chlorophyll a						
Ammonia Nitrogen (a	mg/L	0.069	< 0.050	< 0.050	< 0.05	0.20
Nitrate (as N)	mg/L	0.100	< 0.10	< 0.10	< 0.1	0.25
Nitrite (as N)	mg/L	0.005	< 0.010	< 0.010	< 0.01	< 0.01
Nitrate + nitrite (as N	mg/L	0.100	< 0.10	< 0.10	< 0.1	0.25
Total phosphorus	mg/L	0.010	< 0.020	< 0.020	< 0.02	< 0.02
Orthophosphate (P)	mg/L	0.005	< 0.010	< 0.010	< 0.01	< 0.01
WQ05- General Organics						
Total oil and grease	mg/L	0.25	< 0.50	< 0.50	< 0.5	< 0.5

WQ06- Total Metals						
Aluminum	mg/L	0.28	0.61	0.34	0.01	0.19
Arsenic	mg/L	0.00	0.00	0.00	0.00	0.01
Barium	mg/L	0.02	0.01	0.01	0.02	0.02
Cadmium	mg/L	0.00	< 0.000010	0.00	< 0.00001	< 0.00001
Calcium (total)	mg/L	22.30	8.45	6.44	17.90	56.40
Chromium	mg/L	0.00	0.00	< 0.0010	< 0.001	< 0.001
Copper	mg/L	0.00	0.00	0.00	0.00	0.00
Iron	mg/L	0.65	1.28	0.67	0.15	0.51
Lead	mg/L	0.00	0.00	0.00	< 0.0002	0.00
Magnesium (total)	mg/L	4.07	1.40	1.13	3.66	10.10
Manganese	mg/L	0.04	0.07	0.08	0.00	0.03
Mercury	mg/L	0.00	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	mg/L	0.00	< 0.0010	< 0.0010	< 0.001	0.00
Nickel	mg/L	0.00	0.00	0.00	0.00	0.00
Potassium (total)	mg/L	2.44	1.05	0.81	2.09	5.81
Selenium	mg/L	0.00	< 0.00010	< 0.00010	< 0.0001	< 0.0001
Silver	mg/L	0.00	< 0.000020	< 0.000020	< 0.00002	< 0.00002
Sodium (total)	mg/L	20.32	4.42	3.54	19.60	53.70
Thallium	mg/L	0.00	< 0.000010	< 0.000010	< 0.00001	< 0.00001
Titanium	mg/L	0.01	0.02	0.01	< 0.005	< 0.005
Zinc	mg/L	0.01	< 0.0050	< 0.0050	< 0.005	0.02
WQ07- Dissolved Metals						
Aluminum	mg/L	0.01	0.01	0.01	0.00	0.01
Arsenic	mg/L	0.00	0.00	0.00	0.00	0.01
Barium	mg/L	0.01	0.00	0.01	0.02	0.03
Cadmium	mg/L	0.00	< 0.000010	< 0.000010	< 0.00001	< 0.00001
Calcium (Dissolved)	mg/L	22.64	8.12	8.05	18.20	56.20
Chromium	mg/L	0.00	< 0.0010	< 0.0010	< 0.001	< 0.001
Copper	mg/L	0.00	0.00	0.00	0.00	0.00
Iron	mg/L	0.05	0.03	0.03	0.10	0.03
Lead	mg/L	0.00	< 0.00020	< 0.00020	< 0.0002	< 0.0002
Magnesium (Dissolve	mg/L	4.23	1.11	1.39	3.62	10.80
Manganese	mg/L	0.06	0.05	0.09	< 0.001	0.03

Molybdenum	mg/L	0.00	< 0.0010	< 0.0010	< 0.001	0.00
Nickel	mg/L	0.00	< 0.0010	< 0.0010	0.00	0.00
Potassium (Dissolved	mg/L	2.50	0.89	0.95	2.11	6.06
Selenium	mg/L	0.00	< 0.00010	< 0.00010	< 0.0001	< 0.0001
Silver	mg/L	0.00	< 0.000020	< 0.000020	< 0.00002	< 0.00002
Sodium (Dissolved)	mg/L	21.94	4.20	4.47	19.00	60.10
Thallium	mg/L	0.00	< 0.000010	< 0.000010	< 0.00001	< 0.00001
Zinc	mg/L	0.01	< 0.0050	< 0.0050	< 0.005	0.02

MEL-SR-16	Sample date	Average	5/26/2025
Parameter	**Unit**	2025	
WQ01- Field Measured			
Temperature	°C	16.40	16.40
pH	pH units	7.36	7.36
Conductivity	uS/cm	583.00	583.00
Dissolved oxygen	mg/L	4.76	4.76
Dissolved oxygen	%	48.70	48.70
Turbidity	NTU	11.50	11.50
WQ02- Conventional Parameters			
pH	pH units	7.74	7.74
Dissolved Oxygen	%	48.70	48.70
Turbidity	NTU	0.60	0.60
Hardness, as CaCO3	mg/L	210.00	210.00
Hardness, as CaCO3-I	mg/L	240.00	240.00
Total alkalinity, as Ca	mg/L	83.00	83.00
TDS	mg/L	370.00	370.00
TDS, calculated	mg/L	350.00	350.00
TSS	mg/L	8.00	8.00
WQ03- Major Ions			
Chloride	mg/L	65.00	65.00
Cyanide	mg/L	0.00	0.00
Fluoride	mg/L	0.05	< 0.10
Silica	mg/L	3.80	3.80
Sulfate	mg/L	120.00	120.00
WQ04- Nutrients and Chlorophyll a			
Ammonia Nitrogen (a	mg/L	0.03	< 0.050
Nitrate (as N)	mg/L	0.05	< 0.10
Nitrite (as N)	mg/L	0.01	< 0.010
Nitrate + nitrite (as N	mg/L	0.05	< 0.10
Total phosphorus	mg/L	0.01	< 0.020
Orthophosphate (P)	mg/L	0.01	< 0.010
WQ05- General Organics			
Total oil and grease	mg/L	0.25	< 0.50
WQ06- Total Metals			
Aluminum	mg/L	0.03	0.03
Arsenic	mg/L	0.00	0.00
Barium	mg/L	0.05	0.05
Cadmium	mg/L	0.00	0.00
Calcium (total)	mg/L	67.40	67.40
Chromium	mg/L	0.01	< 0.0010
Copper	mg/L	0.00	0.00
Iron	mg/L	0.04	0.04
Lead	mg/L	0.00	< 0.00020
Magnesium (total)	mg/L	10.10	10.10
Manganese	mg/L	0.02	0.02
Mercury	mg/L	0.00	< 0.00001

Molybdenum	mg/L	0.00	0.00
Nickel	mg/L	0.00	0.00
Potassium (total)	mg/L	4.29	4.29
Selenium	mg/L	0.00	< 0.00010
Silver	mg/L	0.00	< 0.000020
Sodium (total)	mg/L	12.90	12.90
Thallium	mg/L	0.00	< 0.000010
Titanium	mg/L	0.00	< 0.0050
Zinc	mg/L	0.00	< 0.0050
WQ07- Dissolved Metals			
Aluminum	mg/L	0.01	0.01
Arsenic	mg/L	0.00	0.00
Barium	mg/L	0.05	0.05
Cadmium	mg/L	0.00	0.00
Calcium (Dissolved)	mg/L	76.70	76.70
Chromium	mg/L	0.00	< 0.0010
Copper	mg/L	0.00	0.00
Iron	mg/L	0.01	0.01
Lead	mg/L	0.00	< 0.00020
Magnesium (Dissolve	mg/L	11.70	11.70
Manganese	mg/L	0.03	0.03
Molybdenum	mg/L	0.00	0.00
Nickel	mg/L	0.00	0.00
Potassium (Dissolved	mg/L	5.03	5.03
Selenium	mg/L	0.00	< 0.00010
Silver	mg/L	0.00	< 0.000020
Sodium (Dissolved)	mg/L	15.00	15.00
Thallium	mg/L	0.00	< 0.000010
Zinc	mg/L	0.00	< 0.0050

MEL-SR-20	Sample date	Average	6/9/2025
Parameter	**Unit**	2025	
WQ01- Field Measured			
Temperature	°C	8.30	8.30
pH	pH units	7.35	7.35
Conductivity	uS/cm	400.90	400.90
Dissolved oxygen	mg/L	13.52	13.52
Dissolved oxygen	%	115.10	115.10
Turbidity	NTU	2.69	2.69
WQ02- Conventional Parameters			
pH	pH units	7.93	7.93
Dissolved Oxygen	%	115.10	115.10
Turbidity	NTU	0.60	0.60
Hardness, as CaCO3	mg/L	140.00	140.00
Hardness, as CaCO3-I	mg/L	142.00	142.00
Total alkalinity, as Ca	mg/L	77.00	77.00
TDS	mg/L	265.00	265.00
TDS, calculated	mg/L	220.00	220.00
TSS	mg/L	0.50	< 1
WQ03- Major Ions			
Chloride	mg/L	37.00	37.00
Cyanide	mg/L	0.00	0.00
Fluoride	mg/L	0.05	< 0.1
Silica	mg/L	1.80	1.80
Sulfate	mg/L	68.00	68.00
WQ04- Nutrients and Chlorophyll a			
Ammonia Nitrogen (a	mg/L	0.03	< 0.05
Nitrate (as N)	mg/L	0.05	< 0.1
Nitrite (as N)	mg/L	0.01	< 0.01
Nitrate + nitrite (as N	mg/L	0.05	< 0.1
Total phosphorus	mg/L	0.01	< 0.02
Orthophosphate (P)	mg/L	0.01	< 0.01
WQ05- General Organics			
Total oil and grease	mg/L	0.25	< 0.5
WQ06- Total Metals			
Aluminum	mg/L	0.03	0.03
Arsenic	mg/L	0.03	0.03
Barium	mg/L	0.04	0.04
Cadmium	mg/L	0.00	0.00
Calcium (total)	mg/L	45.90	45.90
Chromium	mg/L	0.00	< 0.001
Copper	mg/L	0.00	0.00
Iron	mg/L	0.06	0.06
Lead	mg/L	0.00	< 0.0002
Magnesium (total)	mg/L	6.22	6.22
Manganese	mg/L	0.00	0.00
Mercury	mg/L	0.00	< 0.00001

Molybdenum	mg/L	0.00	< 0.001
Nickel	mg/L	0.01	0.01
Potassium (total)	mg/L	3.02	3.02
Selenium	mg/L	0.00	< 0.0001
Silver	mg/L	0.00	< 0.00002
Sodium (total)	mg/L	15.80	15.80
Thallium	mg/L	0.00	0.00
Titanium	mg/L	0.00	< 0.005
Zinc	mg/L	0.00	< 0.005
WQ07- Dissolved Metals			
Aluminum	mg/L	0.01	0.01
Arsenic	mg/L	0.03	0.03
Barium	mg/L	0.04	0.04
Cadmium	mg/L	0.00	< 0.00001
Calcium (Dissolved)	mg/L	47.00	47.00
Chromium	mg/L	0.00	< 0.001
Copper	mg/L	0.00	0.00
Iron	mg/L	0.03	0.03
Lead	mg/L	0.00	< 0.0002
Magnesium (Dissolve	mg/L	5.90	5.90
Manganese	mg/L	0.00	0.00
Molybdenum	mg/L	0.00	< 0.001
Nickel	mg/L	0.00	0.00
Potassium (Dissolved	mg/L	2.87	2.87
Selenium	mg/L	0.00	< 0.0001
Silver	mg/L	0.00	< 0.00002
Sodium (Dissolved)	mg/L	15.00	15.00
Thallium	mg/L	0.00	0.00
Zinc	mg/L	0.00	< 0.005

MEL-SR-22	Sample date	Average	5/27/2025
Parameter	**Unit**	2025	
WQ01- Field Measured			
Temperature	°C	3.10	3.10
pH	pH units	7.58	7.58
Conductivity	uS/cm	37.50	37.50
Dissolved oxygen	mg/L	14.75	14.75
Dissolved oxygen	%	111.90	111.90
Turbidity	NTU	11.50	11.50
WQ02- Conventional Parameters			
pH	pH units	7.00	7.00
Dissolved Oxygen	%	111.90	111.90
Turbidity	NTU	0.80	0.80
Hardness, as CaCO3	mg/L	9.06	9.06
Hardness, as CaCO3-I	mg/L	10.30	10.30
Total alkalinity, as Ca	mg/L	6.00	6.00
TDS	mg/L	15.00	15.00
TDS, calculated	mg/L	20.00	20.00
TSS	mg/L	6.00	6.00
WQ03- Major Ions			
Chloride	mg/L	3.80	3.80
Cyanide	mg/L	0.00	< 0.00050
Fluoride	mg/L	0.05	< 0.10
Silica	mg/L	0.40	0.40
Sulfate	mg/L	5.50	5.50
WQ04- Nutrients and Chlorophyll a			
Ammonia Nitrogen (a	mg/L	0.03	< 0.050
Nitrate (as N)	mg/L	0.05	< 0.10
Nitrite (as N)	mg/L	0.01	< 0.010
Nitrate + nitrite (as N	mg/L	0.05	< 0.10
Total phosphorus	mg/L	0.01	< 0.020
Orthophosphate (P)	mg/L	0.01	< 0.010
WQ05- General Organics			
Total oil and grease	mg/L	0.25	< 0.50
WQ06- Total Metals			
Aluminum	mg/L	0.09	0.09
Arsenic	mg/L	0.00	0.00
Barium	mg/L	0.01	0.01
Cadmium	mg/L	0.00	< 0.000010
Calcium (total)	mg/L	2.75	2.75
Chromium	mg/L	0.00	< 0.0010
Copper	mg/L	0.00	0.00
Iron	mg/L	0.19	0.19
Lead	mg/L	0.00	< 0.00020
Magnesium (total)	mg/L	0.53	0.53
Manganese	mg/L	0.05	0.05
Mercury	mg/L	0.00	< 0.00001

Molybdenum	mg/L	0.00	< 0.0010
Nickel	mg/L	0.00	< 0.0010
Potassium (total)	mg/L	0.69	0.69
Selenium	mg/L	0.00	< 0.00010
Silver	mg/L	0.00	< 0.000020
Sodium (total)	mg/L	1.87	1.87
Thallium	mg/L	0.00	< 0.000010
Titanium	mg/L	0.00	< 0.0050
Zinc	mg/L	0.00	< 0.0050
WQ07- Dissolved Metals			
Aluminum	mg/L	0.01	0.01
Arsenic	mg/L	0.00	0.00
Barium	mg/L	0.01	0.01
Cadmium	mg/L	0.00	< 0.000010
Calcium (Dissolved)	mg/L	3.17	3.17
Chromium	mg/L	0.00	< 0.0010
Copper	mg/L	0.00	0.00
Iron	mg/L	0.04	0.04
Lead	mg/L	0.00	< 0.00020
Magnesium (Dissolve	mg/L	0.57	0.57
Manganese	mg/L	0.05	0.05
Molybdenum	mg/L	0.00	< 0.0010
Nickel	mg/L	0.00	< 0.0010
Potassium (Dissolved	mg/L	0.77	0.77
Selenium	mg/L	0.00	< 0.00010
Silver	mg/L	0.00	< 0.000020
Sodium (Dissolved)	mg/L	2.12	2.12
Thallium	mg/L	0.00	< 0.000010
Zinc	mg/L	0.00	< 0.0050

MEL-SR-24	Sample date	Average	5/25/2025	5/26/2025
Parameter	**Unit**	2025		
WQ01- Field Measured				
Temperature	°C	6.35	3.70	9.00
pH	pH units	7.35	7.29	7.40
Conductivity	uS/cm	156.45	170.60	142.30
Dissolved oxygen	mg/L	13.06	12.91	13.20
Dissolved oxygen	%	98.50	91.30	105.70
Turbidity	NTU	29.45	38.60	20.30
WQ02- Conventional Parameters				
pH	pH units	7.34	7.44	7.23
Dissolved Oxygen	%	98.50	91.30	105.70
Turbidity	NTU	14.30	27.00	1.60
Hardness, as CaCO3	mg/L	39.00	57.90	20.10
Hardness, as CaCO3-I	mg/L	37.60	52.50	22.70
Total alkalinity, as Ca	mg/L	22.00	32.00	12.00
TDS	mg/L	50.00	70.00	30.00
TDS, calculated	mg/L	53.00	66.00	40.00
TSS	mg/L	54.00	100.00	8.00
WQ03- Major Ions				
Chloride	mg/L	9.50	13.00	6.00
Cyanide	mg/L	0.00	< 0.00050	< 0.00050
Fluoride	mg/L	0.05	< 0.10	< 0.10
Silica	mg/L	0.79	1.00	0.58
Sulfate	mg/L	8.80	4.60	13.00
WQ04- Nutrients and Chlorophyll a				
Ammonia Nitrogen (a	mg/L	0.03	< 0.050	< 0.050
Nitrate (as N)	mg/L	0.05	< 0.10	< 0.10
Nitrite (as N)	mg/L	0.01	< 0.010	< 0.010
Nitrate + nitrite (as N	mg/L	0.05	< 0.10	< 0.10
Total phosphorus	mg/L	0.03	0.10	< 0.020
Orthophosphate (P)	mg/L	0.01	< 0.010	< 0.010
WQ05- General Organics				
Total oil and grease	mg/L	0.25	< 0.50	< 0.50
WQ06- Total Metals				
Aluminum	mg/L	1.00	1.79	0.21
Arsenic	mg/L	0.01	0.01	0.00
Barium	mg/L	0.03	0.04	0.01
Cadmium	mg/L	0.00	0.00	0.00
Calcium (total)	mg/L	12.40	18.50	6.29
Chromium	mg/L	0.00	0.00	< 0.0010
Copper	mg/L	0.01	0.01	0.00
Iron	mg/L	2.07	3.67	0.47
Lead	mg/L	0.00	0.00	0.00
Magnesium (total)	mg/L	1.97	2.86	1.07
Manganese	mg/L	0.07	0.10	0.04
Mercury	mg/L	0.00	< 0.00001	< 0.00001

Molybdenum	mg/L	0.00	< 0.0010	< 0.0010
Nickel	mg/L	0.00	0.01	0.00
Potassium (total)	mg/L	2.00	3.08	0.93
Selenium	mg/L	0.00	< 0.00010	< 0.00010
Silver	mg/L	0.00	< 0.000020	< 0.000020
Sodium (total)	mg/L	5.11	6.83	3.39
Thallium	mg/L	0.00	< 0.000010	< 0.000010
Titanium	mg/L	0.05	0.09	0.01
Zinc	mg/L	0.01	0.01	< 0.0050
WQ07- Dissolved Metals				
Aluminum	mg/L	0.01	0.01	0.01
Arsenic	mg/L	0.00	0.00	0.00
Barium	mg/L	0.02	0.02	0.01
Cadmium	mg/L	0.00	< 0.000010	< 0.000010
Calcium (Dissolved)	mg/L	12.54	17.80	7.27
Chromium	mg/L	0.00	< 0.0010	< 0.0010
Copper	mg/L	0.00	0.00	0.00
Iron	mg/L	0.10	0.04	0.16
Lead	mg/L	0.00	< 0.00020	< 0.00020
Magnesium (Dissolve	mg/L	1.53	1.94	1.11
Manganese	mg/L	0.06	0.07	0.04
Molybdenum	mg/L	0.00	< 0.0010	< 0.0010
Nickel	mg/L	0.00	0.00	< 0.0010
Potassium (Dissolved	mg/L	1.73	2.42	1.03
Selenium	mg/L	0.00	< 0.00010	< 0.00010
Silver	mg/L	0.00	< 0.000020	< 0.000020
Sodium (Dissolved)	mg/L	5.33	6.77	3.88
Thallium	mg/L	0.00	< 0.000010	< 0.000010
Zinc	mg/L	0.00	< 0.0050	< 0.0050

MEL-SR-25	Sample date	Average	5/30/2025
Parameter	**Unit**	2025	
WQ01- Field Measured			
Temperature	°C	2.50	2.50
pH	pH units	7.53	7.53
Conductivity	uS/cm	103.60	103.60
Dissolved oxygen	mg/L	14.45	14.45
Dissolved oxygen	%	105.50	105.50
Turbidity	NTU	9.72	9.72
WQ02- Conventional Parameters			
pH	pH units	7.29	7.29
Dissolved Oxygen	%	105.50	105.50
Turbidity	NTU	1.60	1.60
Hardness, as CaCO3	mg/L	28.20	28.20
Hardness, as CaCO3-I	mg/L	27.60	27.60
Total alkalinity, as Ca	mg/L	14.00	14.00
TDS	mg/L	80.00	80.00
TDS, calculated	mg/L	50.00	50.00
TSS	mg/L	2.00	2.00
WQ03- Major Ions			
Chloride	mg/L	14.00	14.00
Cyanide	mg/L	0.00	< 0.0005
Fluoride	mg/L	0.05	< 0.1
Silica	mg/L	0.66	0.66
Sulfate	mg/L	11.00	11.00
WQ04- Nutrients and Chlorophyll a			
Ammonia Nitrogen (a	mg/L	0.08	0.08
Nitrate (as N)	mg/L	0.05	< 0.1
Nitrite (as N)	mg/L	0.01	< 0.01
Nitrate + nitrite (as N	mg/L	0.05	< 0.1
Total phosphorus	mg/L	0.01	< 0.02
Orthophosphate (P)	mg/L	0.01	< 0.01
WQ05- General Organics			
Total oil and grease	mg/L	0.90	0.90
WQ06- Total Metals			
Aluminum	mg/L	0.09	0.09
Arsenic	mg/L	0.00	0.00
Barium	mg/L	0.01	0.01
Cadmium	mg/L	0.00	0.00
Calcium (total)	mg/L	9.03	9.03
Chromium	mg/L	0.00	< 0.001
Copper	mg/L	0.00	0.00
Iron	mg/L	0.30	0.30
Lead	mg/L	0.00	0.00
Magnesium (total)	mg/L	1.38	1.38
Manganese	mg/L	0.08	0.08
Mercury	mg/L	0.00	< 0.00001

Molybdenum	mg/L	0.00	< 0.001
Nickel	mg/L	0.00	< 0.001
Potassium (total)	mg/L	1.19	1.19
Selenium	mg/L	0.00	< 0.0001
Silver	mg/L	0.00	< 0.00002
Sodium (total)	mg/L	5.60	5.60
Titanium	mg/L	0.00	< 0.005
Zinc	mg/L	0.00	< 0.005
WQ07- Dissolved Metals			
Aluminum	mg/L	0.01	0.01
Arsenic	mg/L	0.00	0.00
Barium	mg/L	0.01	0.01
Cadmium	mg/L	0.00	0.00
Calcium (Dissolved)	mg/L	8.79	8.79
Chromium	mg/L	0.00	< 0.001
Copper	mg/L	0.00	0.00
Iron	mg/L	0.08	0.08
Lead	mg/L	0.00	< 0.0002
Magnesium (Dissolve	mg/L	1.37	1.37
Manganese	mg/L	0.07	0.07
Molybdenum	mg/L	0.00	< 0.001
Nickel	mg/L	0.00	< 0.001
Potassium (Dissolved	mg/L	1.12	1.12
Selenium	mg/L	0.00	< 0.0001
Silver	mg/L	0.00	< 0.00002
Sodium (Dissolved)	mg/L	6.03	6.03
Thallium	mg/L	0.00	< 0.00001
Zinc	mg/L	0.00	< 0.005

MEL-SR-26	Sample date	Average	5/30/2025
Parameter	**Unit**	2025	
WQ01- Field Measured			
Temperature	°C	5.00	5.00
pH	pH units	7.40	7.40
Conductivity	uS/cm	326.90	326.90
Dissolved oxygen	mg/L	13.99	13.99
Dissolved oxygen	%	108.60	108.60
Turbidity	NTU	10.50	10.50
WQ02- Conventional Parameters			
pH	pH units	7.73	7.73
Dissolved Oxygen	%	108.60	108.60
Turbidity	NTU	1.70	1.70
Hardness, as CaCO3-I	mg/L	88.30	88.30
Total alkalinity, as Ca	mg/L	42.00	42.00
TDS	mg/L	280.00	280.00
TDS, calculated	mg/L	170.00	170.00
TSS	mg/L	6.00	6.00
WQ03- Major Ions			
Chloride	mg/L	46	46
Cyanide	mg/L	0.00	< 0.0005
Fluoride	mg/L	0.05	< 0.1
Silica	mg/L	0.7	0.7
Sulfate	mg/L	44	44
WQ04- Nutrients and Chlorophyll a			
Ammonia Nitrogen (a	mg/L	0.083	0.083
Nitrate (as N)	mg/L	0.05	< 0.1
Nitrite (as N)	mg/L	0.01	< 0.01
Nitrate + nitrite (as N	mg/L	0.05	< 0.1
Total phosphorus	mg/L	0.01	< 0.02
Orthophosphate (P)	mg/L	0.01	< 0.01
WQ05- General Organics			
Total oil and grease	mg/L	0.25	0.5
WQ06- Total Metals			
Aluminum	mg/L	0.0035	0.0035
Arsenic	mg/L	0.0008	0.0008
Barium	mg/L	0.0252	0.0252
Cadmium	mg/L	0.00	< 0.00001
Calcium (total)	mg/L	26.7	26.7
Chromium	mg/L	0.00	< 0.001
Copper	mg/L	0.00139	0.00139
Iron	mg/L	0.058	0.058
Lead	mg/L	0.00	< 0.0002
Magnesium (total)	mg/L	3.95	3.95
Manganese	mg/L	0.0218	0.0218
Mercury	mg/L	0.00	< 0.00001
Molybdenum	mg/L	0.00	< 0.001

Nickel	mg/L	0.0012	0.0012
Potassium (total)	mg/L	2.65	2.65
Selenium	mg/L	0.00	< 0.0001
Silver	mg/L	0.00	< 0.00002
Sodium (total)	mg/L	19.9	19.9
Titanium	mg/L	0.00	< 0.005
Zinc	mg/L	0.00	< 0.005
WQ07- Dissolved Metals			
Aluminum	mg/L	0.109	0.109
Arsenic	mg/L	0.00106	0.00106
Barium	mg/L	0.0259	0.0259
Cadmium	mg/L	0.00	< 0.00001
Calcium (Dissolved)	mg/L	28.3	28.3
Chromium	mg/L	0.00	< 0.001
Copper	mg/L	0.00192	0.00192
Iron	mg/L	0.277	0.277
Lead	mg/L	0.00023	0.00023
Magnesium (Dissolve	mg/L	4.31	4.31
Manganese	mg/L	0.0269	0.0269
Molybdenum	mg/L	0.00	< 0.001
Nickel	mg/L	0.0014	0.0014
Potassium (Dissolved	mg/L	2.7	2.7
Selenium	mg/L	0.00	< 0.0001
Silver	mg/L	0.00	< 0.00002
Sodium (Dissolved)	mg/L	21.7	21.7
Thallium	mg/L	0.000012	0.000012
Zinc	mg/L	0.00	< 0.005

MEL-SR-27	Sample date	Average	8/11/2025
Parameter	**Unit**	2025	
WQ02- Conventional Parameters			
pH	pH units	7.94	7.94
Turbidity	NTU	1.40	1.40
Hardness, as CaCO3-I	mg/L	192.00	192.00
Total alkalinity, as Ca	mg/L	99.00	99.00
TDS	mg/L	370.00	370.00
TDS, calculated	mg/L	330.00	330.00
TSS	mg/L	1.00	1.00
WQ03- Major Ions			
Chloride	mg/L	74.00	74.00
Cyanide	mg/L	0.00	0.00
Fluoride	mg/L	0.05	< 0.1
Silica	mg/L	1.90	1.90
Sulfate	mg/L	71.00	71.00
WQ04- Nutrients and Chlorophyll a			
Ammonia Nitrogen (a	mg/L	0.12	0.12
Nitrate (as N)	mg/L	0.50	0.50
Nitrite (as N)	mg/L	0.01	< 0.01
Nitrate + nitrite (as N	mg/L	0.50	0.50
Total phosphorus	mg/L	0.01	< 0.02
Orthophosphate (P)	mg/L	0.01	< 0.01
WQ05- General Organics			
Total oil and grease	mg/L	0.25	< 0.5
WQ06- Total Metals			
Aluminum	mg/L	0.04	0.04
Arsenic	mg/L	0.00	0.00
Barium	mg/L	0.03	0.03
Cadmium	mg/L	0.00	< 0.00001
Calcium (total)	mg/L	51.50	51.50
Chromium	mg/L	0.00	< 0.001
Copper	mg/L	0.00	0.00
Iron	mg/L	0.13	0.13
Lead	mg/L	0.00	< 0.0002
Magnesium (total)	mg/L	10.10	10.10
Manganese	mg/L	0.01	0.01
Mercury	mg/L	0.00	< 0.00001
Molybdenum	mg/L	0.00	< 0.001
Nickel	mg/L	0.00	0.00
Potassium (total)	mg/L	5.15	5.15
Selenium	mg/L	0.00	0.00
Silver	mg/L	0.00	< 0.00002
Sodium (total)	mg/L	39.80	39.80
Titanium	mg/L	0.00	< 0.005
Zinc	mg/L	0.00	< 0.005
WQ07- Dissolved Metals			

Aluminum	mg/L	0.01	0.01
Arsenic	mg/L	0.00	0.00
Barium	mg/L	0.03	0.03
Cadmium	mg/L	0.00	< 0.00001
Calcium (Dissolved)	mg/L	59.10	59.10
Chromium	mg/L	0.00	< 0.001
Copper	mg/L	0.00	0.00
Iron	mg/L	0.02	0.02
Lead	mg/L	0.00	< 0.0002
Magnesium (Dissolve	mg/L	10.90	10.90
Manganese	mg/L	0.01	0.01
Molybdenum	mg/L	0.00	< 0.001
Nickel	mg/L	0.00	0.00
Potassium (Dissolved	mg/L	5.83	5.83
Selenium	mg/L	0.00	0.00
Silver	mg/L	0.00	< 0.00002
Sodium (Dissolved)	mg/L	42.10	42.10
Thallium	mg/L	0.00	< 0.00001
Zinc	mg/L	0.00	< 0.005