

M-79B

Water Type	Na-SO ₄		
Dissolved Solids	1012.2 mg/kg	1010 mg/L	Measured
Density	0.99779 g/cm ³		Calculated
Conductivity	1.42 µmho/cm		Measured
Hardness (as CaCO₃)			
Total	346.93 mg/kg	346.17 mg/L	Calculated
Carbonate	210.43	209.96	
Non-Carbonate	136.5	136.2	

Primary Tests**Anion-Cation Balance**

Anions	13.4	
Cations	13.9	
% Difference	1.491	OK

Measured TDS = Calculated TDS

Measured	1012.232	
Calculated	932.316	
Ratio	1.086	OK

Measured EC = Calculated EC

Measured	1.420	
Calculated	1282.117	
Ratio	0.001	Not within range 0.9 to 1.1

Secondary Tests**Measured EC and Ion Sums:**

Anions	947.031014	Not within preferred range (0.9-1.1)
Cations	975.694257	Not within preferred range (0.9-1.1)
Calculated TDS to EC ratio	656.561	Not within preferred range (0.55-0.7)
Measured TDS to EC ratio	712.840	Not within preferred range (0.55-0.7)

Organic Mass Balance**DOC ≥ Sum of Organics**

DOC unavailable

M-126B

Water Type	Na-Cl		
Dissolved Solids	12027 mg/kg	12100 mg/L	Measured
Density	1.0061 g/cm ³		Calculated
Conductivity	16400 µmho/cm		Measured
Hardness (as CaCO₃)			
Total	6401.9 mg/kg	6440.6 mg/L	Calculated
Carbonate	130.44	131.23	
Non-Carbonate	6271.4	6309.4	

Primary Tests

Anion-Cation Balance

Anions	198	
Cations	200	
% Difference	0.517	OK

Measured TDS = Calculated TDS

Measured	12027.163	
Calculated	11067.137	
Ratio	1.087	OK

Measured EC = Calculated EC

Measured	16400.000	
Calculated	12542.444	
Ratio	1.308	Not within range 0.9 to 1.1

Secondary Tests

Measured EC and Ion Sums:

Anions	1.207033	Not within preferred range (0.9-1.1)
Cations	1.219588	Not within preferred range (0.9-1.1)

Calculated TDS to EC ratio 0.675 OK

Measured TDS to EC ratio 0.733 Not within preferred range (0.55-0.7)

Organic Mass Balance

DOC ≥ Sum of Organics

DOC unavailable

M-84B

Water Type	Ca-SO ₄		
Dissolved Solids	1382.7 mg/kg	1380 mg/L	Measured
Density	0.99807 g/cm ³		Calculated
Conductivity	1740 µmho/cm		Measured
Hardness (as CaCO₃)			
Total	558.29 mg/kg	557.21 mg/L	Calculated
Carbonate	197.22	196.84	
Non-Carbonate	361.07	360.37	

Primary Tests

Anion-Cation Balance

Anions	17.4	
Cations	19	
% Difference	4.469	OK

Measured TDS = Calculated TDS

Measured	1382.663	
Calculated	1218.467	
Ratio	1.135	OK

Measured EC = Calculated EC

Measured	1740.000	
Calculated	1669.232	
Ratio	1.042	OK

Secondary Tests

Measured EC and Ion Sums:

Anions	1.000120	Within preferred range (0.9-1.1)
Cations	1.093693	Within preferred range (0.9-1.1)
Calculated TDS to EC ratio	0.700	Not within preferred range (0.55-0.7)
Measured TDS to EC ratio	0.795	Not within preferred range (0.55-0.7)

Organic Mass Balance

DOC ≥ Sum of Organics

DOC unavailable

M-14ADBFB

Water Type	Na-SO ₄		
Dissolved Solids	3211.8 mg/kg	3210 mg/L	Measured
Density	0.99945 g/cm ³		Calculated
Conductivity	3980 µmho/cm		Measured
Hardness (as CaCO₃)			
Total	1151.4 mg/kg	1150.7 mg/L	Calculated
Carbonate	175.61	175.52	
Non-Carbonate	975.76	975.22	

Primary Tests

Anion-Cation Balance

Anions	45.6	
Cations	47.7	
% Difference	2.310	OK

Measured TDS = Calculated TDS

Measured	3211.769	
Calculated	2957.239	
Ratio	1.086	OK

Measured EC = Calculated EC

Measured	3980.000	
Calculated	3801.173	
Ratio	1.047	OK

Secondary Tests

Measured EC and Ion Sums:

Anions	1.145562	Not within preferred range (0.9-1.1)
Cations	1.199739	Not within preferred range (0.9-1.1)
Calculated TDS to EC ratio	0.743	Not within preferred range (0.55-0.7)
Measured TDS to EC ratio	0.807	Not within preferred range (0.55-0.7)

Organic Mass Balance

DOC ≥ Sum of Organics

DOC unavailable

M-14ABF

Water Type	Na-SO ₄		
Dissolved Solids	3111.9 mg/kg	3110 mg/L	Measured
Density	0.99937 g/cm ³		Calculated
Conductivity	3920 µmho/cm		Measured
Hardness (as CaCO₃)			
Total	1144 mg/kg	1143.2 mg/L	Calculated
Carbonate	170.7	170.6	
Non-Carbonate	973.26	972.65	

Primary Tests

Anion-Cation Balance

Anions	44.7	
Cations	47.7	
% Difference	3.281	OK

Measured TDS = Calculated TDS

Measured	3111.947	
Calculated	2914.664	
Ratio	1.068	OK

Measured EC = Calculated EC

Measured	3920.000	
Calculated	3761.458	
Ratio	1.042	OK

Secondary Tests

Measured EC and Ion Sums:

Anions	1.139392	Not within preferred range (0.9-1.1)
Cations	1.216692	Not within preferred range (0.9-1.1)
Calculated TDS to EC ratio	0.744	Not within preferred range (0.55-0.7)
Measured TDS to EC ratio	0.794	Not within preferred range (0.55-0.7)

Organic Mass Balance

DOC ≥ Sum of Organics

DOC unavailable

R2844768

Name	Unit	M-79B	M-126B	M-84B	M-14ADBF	M-14ABF
Sample ID	text	M-79B	M-126B	M-84B	M-14ADBF	M-14ABF
LIMs ID	text	1113695	1113696	1113697	1113698	1113699
Calcium	µg/L	85200.0	1.26E6	159000	258000	255000
Magnesium	µg/L	32400.0	800000	38900.0	123000	123000
Potassium	µg/L	5920	32800.0	5950	8630	8920
Sodium	µg/L	156000	1.62E6	178000	564000	566000
Chlorate	µg/L	20400.0	ND	23400.0	19500.0	19500.0
Perchlorate	µg/L	13400.0	40	13200.0	26600.0	26700.0
Bicarbonate	mg/L	128	80	120	107	104
Carbonate	mg/L	ND	ND	ND	ND	ND
Chloride	mg/L	109	5930	126	661	652
Conductivity	µmho/cm	1.42	16400.0	1740	3980	3920
Fluoride	mg/L					
Hydroxide	mg/L					
Nitrate	mg/L	2.94	1.32	3.67	7.88	7.72
Phosphorus	mg/L	ND	ND	ND	ND	ND
Dissolved Solids	mg/L	1010	12100.0	1380	3210	3110
Sulfate	mg/L	377	1410	548	1180	1150