

R2844803

M-55B

Water Type	Na-Cl		
Dissolved Solids	9480.7 mg/kg	9520 mg/L	Measured
Density	1.0041 g/cm ³		Calculated
Conductivity	10700 µmho/cm		Measured
Hardness (as CaCO₃)			
Total	2438.6 mg/kg	2448.7 mg/L	Calculated
Carbonate	249.94	250.97	
Non-Carbonate	2188.7	2197.7	

Primary Tests

Anion-Cation Balance

Anions	118	
Cations	122	
% Difference	1.793	OK

Measured TDS = Calculated TDS

Measured	9480.667	
Calculated	9004.940	
Ratio	1.053	OK

Measured EC = Calculated EC

Measured	10700.000	
Calculated	6801.618	
Ratio	1.573	Not within range 0.9 to 1.1

Secondary Tests

Measured EC and Ion Sums:

Anions	1.103155	Not within preferred range (0.9-1.1)
Cations	1.143438	Not within preferred range (0.9-1.1)
Calculated TDS to EC ratio	0.842	Not within preferred range (0.55-0.7)
Measured TDS to EC ratio	0.886	Not within preferred range (0.55-0.7)

Organic Mass Balance

DOC ≥ Sum of Organics

DOC unavailable

M-55DB

Water Type	Na-Cl		
Dissolved Solids	9371.9 mg/kg	9410 mg/L	Measured
Density	1.0041 g/cm ³		Calculated
Conductivity	10300 µmho/cm		Measured
Hardness (as CaCO₃)			
Total	2359.6 mg/kg	2369.2 mg/L	Calculated
Carbonate	248.32	249.33	
Non-Carbonate	2111.3	2119.9	

Primary Tests

Anion-Cation Balance

Anions	118	
Cations	119	
% Difference	0.260	OK

Measured TDS = Calculated TDS

Measured	9371.882	
Calculated	9089.530	
Ratio	1.031	OK

Measured EC = Calculated EC

Measured	10300.000	
Calculated	6557.583	
Ratio	1.571	Not within range 0.9 to 1.1

Secondary Tests

Measured EC and Ion Sums:

Anions	1.145043	Not within preferred range (0.9-1.1)
Cations	1.151004	Not within preferred range (0.9-1.1)
Calculated TDS to EC ratio	0.882	Not within preferred range (0.55-0.7)
Measured TDS to EC ratio	0.910	Not within preferred range (0.55-0.7)

Organic Mass Balance

DOC ≥ Sum of Organics

DOC unavailable

M-78B

Water Type	Na-Cl		
Dissolved Solids	10745 mg/kg	10800 mg/L	Measured
Density	1.0051 g/cm ³		Calculated
Conductivity	11300 µmho/cm		Measured
Hardness (as CaCO₃)			
Total	3090.3 mg/kg	3106.1 mg/L	Calculated
Carbonate	274.18	275.58	
Non-Carbonate	2816.1	2830.5	

Primary Tests

Anion-Cation Balance

Anions	129	
Cations	132	
% Difference	1.247	OK

Measured TDS = Calculated TDS

Measured	10745.243	
Calculated	10297.723	
Ratio	1.043	OK

Measured EC = Calculated EC

Measured	11300.000	
Calculated	6859.820	
Ratio	1.647	Not within range 0.9 to 1.1

Secondary Tests

Measured EC and Ion Sums:

Anions	1.143020	Not within preferred range (0.9-1.1)
Cations	1.171893	Not within preferred range (0.9-1.1)
Calculated TDS to EC ratio	0.911	Not within preferred range (0.55-0.7)
Measured TDS to EC ratio	0.951	Not within preferred range (0.55-0.7)

Organic Mass Balance

DOC ≥ Sum of Organics

DOC unavailable

M-65B

Water Type	Na-ClO3	
Dissolved Solids	17700 mg/kg	Measured
Density	N/A	
Conductivity	15800 µmho/cm	Measured
Hardness (as CaCO₃)		
Total	5132.6 mg/L	Calculated
Carbonate	196.84	
Non-Carbonate	4935.8	

Warning: density not known, value of 1.0 used in unit conversions.

Primary Tests

Anion-Cation Balance

Anions	197	
Cations	203	
% Difference	1.566	OK

Measured TDS = Calculated TDS

Measured	17700.000	
Calculated	16657.300	
Ratio	1.063	OK

Measured EC = Calculated EC

Measured	15800.000	
Calculated	8754.150	
Ratio	1.805	Not within range 0.9 to 1.1

Secondary Tests

Measured EC and Ion Sums:

Anions	1.247578	Not within preferred range (0.9-1.1)
Cations	1.287269	Not within preferred range (0.9-1.1)
Calculated TDS to EC ratio	1.054	Not within preferred range (0.55-0.7)
Measured TDS to EC ratio	1.120	Not within preferred range (0.55-0.7)

Organic Mass Balance

DOC ≥ Sum of Organics

DOC unavailable

R2844503

Name	Unit	M-55B	M-55DB	M-78B	M-65B	EB070208GW1
Sample ID	text	M-55B	M-55DB	M-78B	M-65B	EB070208GW1
LIMS ID	text	1114419	1114420	1114421	1114756	1114758
Calcium	µg/L	509000	492000	670000	1.16E6	102
Magnesium	µg/L	286000	277000	348000	543000	30.3
Potassium	µg/L	47200.0	46000.0	46600.0	47300.0	ND
Sodium	µg/L	1.66E6	1.61E6	1.59E6	2.29E6	230
Chlorate	µg/L	2.73E6	3.06E6	3.43E6	7.58E6	ND
Perchlorate	µg/L	610000	592000	1.16E6	1.34E6	ND
Bicarbonate	mg/L	153	152	168	120	ND
Carbonate	mg/L	ND	ND	ND	ND	ND
Chloride	mg/L	1810	1710	1720	2240	ND
Conductivity	µmho/cm	10700.0	10300.0	11300.0	15800.0	3.2
Fluoride	mg/L					
Hydroxide	mg/L					
Nitrate	mg/L	27.1	27.5	47.6	37	ND
Phosphorus	mg/L	ND	ND	ND	ND	ND
Dissolved Solids	mg/L	9520	9410	10800.0	17700.0	ND
Sulfate	mg/L	1210	1160	1170	1300	ND