



**2022 North American Proficiency Testing Program
Quarter 3 Water Report - 10/24/2022**

Laboratory ID
General

Water	Water 2022-307				Water 2022-308			Water 2022-309			
Analysis	Units	n	Median	MAD	Lab Result	Median	MAD	Lab Result	Median	MAD	Lab Result
pH & EC											
pH	---	24	7.98	0.16		8.02	0.16		8.17	0.16	
EC	dS/m	22	0.36	0.020		0.18	0.020		0.56	0.020	
Cations											
Ca	mmolc/L	26	2.00	0.095		1.44	0.053		3.28	0.15	
Mg	mmolc/L	25	1.11	0.040		0.26	0.020		1.64	0.050	
Na	mmolc/L	23	0.54	0.020		0.12	0.020		0.96	0.032	
K	mmolc/L	22	0.060	0.020		0.020	0.020		0.053	0.020	
NH4-N	mmolc/L	6	0.002	0.020		0.002	N/A		0.002	N/A	
Sum Cations	mmolc/L	9	3.69	0.074		1.81	0.044		6.00	0.21	
SAR	---	12	0.43	0.020		0.12	0.020		0.60	0.020	
Adj-SAR	---	4	0.72	N/A		0.16	N/A		1.25	N/A	
Anions											
HCO3	mmolc/L	16	2.26	0.15		1.61	0.090		4.04	0.20	
CO3	mmolc/L	4	0.00	N/A		0.00	N/A		0.36	N/A	
Cl	mmolc/L	20	0.31	0.020		0.038	0.020		1.14	0.060	
NO3	mmolc/L	16	0.017	0.020		0.008	0.020		0.057	0.020	
SO4	mmolc/L	21	1.07	0.064		0.24	0.020		0.50	0.030	
Sum Anions	mmolc/L	10	3.65	0.073		1.92	0.090		5.92	0.20	
Cation-Anion Difference	---	3	0.21	N/A		0.048	N/A		0.23	N/A	
Miscellaneous											
Boron	mg/L	11	0.010	0.020		0.010	0.020		0.023	0.020	
PO4-P Phosphorus - Spec	mg/L	5	0.012	N/A		0.010	N/A		0.093	N/A	
Phosphorus - ICP (Total)	mg/L	7	0.025	0.020		0.013	N/A		0.019	0.020	
TKN	mg/L	1	0.20	N/A					0.10	N/A	
Nitrogen Combustion (Total)	mg/L	1	0.37	N/A		0.13	N/A		0.92	N/A	
Total Organic Carbon	mg/L	2	2.26	N/A		1.03	N/A		2.51	N/A	