



2022 North American Proficiency Testing Program
Quarter 1 Water Report - 4/29/2023

Laboratory ID
General

Water	Water 2023-301				Water 2023-302			Water 2023-303			
Analysis	Units	n	Median	MAD	Lab Result	Median	MAD	Lab Result	Median	MAD	Lab Result
pH & EC											
pH		28	7.90	0.16		7.50	0.19		8.10	0.16	
EC	ds/m	27	0.31	0.020		0.17	0.020		0.74	0.020	
Cations											
Ca	mmolc/L	24	1.64	0.066		1.15	0.067		3.63	0.11	
Mg	mmolc/L	25	0.74	0.030		0.22	0.020		1.65	0.050	
Na	mmolc/L	26	0.56	0.020		0.21	0.020		2.08	0.054	
K	mmolc/L	24	0.092	0.020		0.060	0.020		0.10	0.020	
NH4-N	mmolc/L	6	0.004	0.020		0.007	N/A		0.007	N/A	
Sum Cations	mmolc/L	11	3.05	0.078		1.56	0.094		7.48	0.17	
SAR	---	14	0.50	0.020		0.26	0.020		1.28	0.026	
Adj-SAR	---	3	0.70	N/A		0.19	N/A		2.65	N/A	
Anions											
HCO3	mmolc/L	21	1.89	0.090		1.21	0.11		4.37	0.16	
CO3	mmolc/L	4	0.000	N/A		0.000	N/A		0.25	0.11	
Cl	mmolc/L	22	0.66	0.052		0.15	0.020		2.68	0.20	
NO3	mmolc/L	15	0.076	0.020		0.15	0.020		0.10	0.020	
SO4	mmolc/L	19	0.39	0.020		0.11	0.020		0.15	0.020	
Sum Anions	mmolc/L	11	2.96	0.11		1.59	0.11		7.42	0.35	
Cation-Anion Difference	---	5	0.28	N/A		0.32	N/A		0.29	N/A	
Miscellaneous											
Boron	mg/L	12	0.016	0.020		0.011	0.020		0.024	0.020	
PO4-P Phosphorus - Spec	mg/L	1	0.077	N/A		0.082	N/A		0.046	N/A	
Phosphorus - ICP (Total)	mg/L	6	0.065	0.020		0.073	0.020		0.040	N/A	
TKN	mg/L	3	3.45	N/A		352.0	N/A		352.0	N/A	
Nitrogen Combustion (Total)	mg/L	2	1.34	N/A		2.25	N/A		1.48	N/A	
Total Organic Carbon	mg/L	3	3.86	N/A		2.57	N/A		0.69	N/A	