

001.10 Ammoniacal Nitrogen		
Lab	MgO distillation	
31	10.84	-1.340
Std Dev	10.81	-1.000
Median	10.72	0.000
Std Dev	10.63	1.000
18	10.60	1.340

001.99 Ammoniacal Nitrogen		
Lab	Other	
24	10.95	-2.393
24	10.92	-1.723
79	10.91	-1.627
Std Dev	10.88	-1.000
34	10.85	-0.479
61	10.83	-0.096
23	10.83	0.000
23	10.83	0.000
Median	10.83	0.000
23	10.81	0.287
23	10.81	0.287
32	10.81	0.287
61	10.81	0.287

001.XX Ammoniacal Nitrogen		
Lab	Total Method	
24	10.95	-4.188
24	10.92	-3.015
79	10.91	-2.848
Std Dev	10.85	-1.000
34	10.85	-0.838
31	10.84	-0.503
61	10.83	-0.168
23	10.83	0.000
23	10.83	0.000
Median	10.83	0.000
23	10.81	0.502
23	10.81	0.502
32	10.81	0.502
61	10.81	0.503
Std Dev	10.80	1.000
18	10.60	7.705

010.11 Total Nitrogen		
Lab	Modified Comprehensive	
18	10.99	0.000
Median	10.99	0.000

010.60 Total Nitrogen		
Lab	Combustion	
24	11.00	-0.670
24	10.99	-0.335
9	10.98	0.000
79	10.98	0.000
Median	10.98	0.000
Std Dev	10.95	1.000
31	10.95	1.005
14	10.94	1.340
14	10.94	1.508

010.99 Total Nitrogen		
Lab	Other	
32	10.93	0.000
Median	10.93	0.000

010.XX Total Nitrogen		
Lab	Total Method	
24	11.00	-0.596
24	10.99	-0.298
18	10.99	-0.149
9	10.98	0.000
79	10.98	0.000
Median	10.98	0.000
31	10.95	0.893
Std Dev	10.95	1.000
14	10.94	1.191
14	10.94	1.340
32	10.93	1.489

020.20 Total Phosphate		
Lab	Spectrometric	
14	52.48	-0.477
14	52.45	-0.362
61	52.45	-0.343
23	52.44	-0.324
23	52.44	-0.324
23	52.44	-0.324

23	52.44	-0.324
31	52.41	-0.210
Median	52.36	0.000
79	52.30	0.210
34	52.19	0.629
61	52.12	0.916
9	52.11	0.954
Std Dev	52.09	1.000
24	52.04	1.202
18	52.04	1.221
24	51.89	1.774
32	51.70	2.499

020.50 Total Phosphate		
Lab	ICP	
9	52.33	0.000
Median	52.33	0.000

020.XX Total Phosphate		
Lab	Total Method	
14	52.48	-0.600
14	52.45	-0.480
61	52.45	-0.460
23	52.44	-0.440
23	52.44	-0.440
23	52.44	-0.440
31	52.41	-0.320
9	52.33	0.000
Median	52.33	0.000
79	52.30	0.120
34	52.19	0.560
61	52.12	0.860
9	52.11	0.900
Std Dev	52.08	1.000
24	52.04	1.160
18	52.04	1.180
24	51.89	1.760
32	51.70	2.520

030.20 Insoluble Phosphate		
Lab	Spectrometric	
32	0.20	-6.923
18	0.12	-3.350

Std Dev	0.07	-1.000
24	0.06	-0.670
61	0.05	-0.223
23	0.05	0.000
23	0.05	0.000
24	0.05	0.000
Median	0.05	0.000
23	0.04	0.447
23	0.04	0.447
Std Dev	0.02	1.000
14	0.02	1.117
14	0.02	1.117
61	0.02	1.340
79	0.01	1.563

030.30 Insoluble Phosphate		
Lab	Alka. Quimociac	
31	0.03	0.000
Median	0.03	0.000

030.40 Insoluble Phosphate		
Lab	Automated	
34	0.03	0.000
Median	0.03	0.000

030.50 Insoluble Phosphate		
Lab	ICP	
9	0.04	0.000
Median	0.04	0.000

030.XX Insoluble Phosphate		
Lab	Total Method	
32	0.20	-9.827
18	0.12	-5.062
24	0.06	-1.489
Std Dev	0.05	-1.000
61	0.05	-0.893
23	0.05	-0.596
23	0.05	-0.596
24	0.05	-0.596
9	0.04	0.000
23	0.04	0.000
23	0.04	0.000
Median	0.04	0.000

34	0.03	0.536
31	0.03	0.596
14	0.02	0.893
14	0.02	0.893
Std Dev	0.02	1.000
61	0.02	1.191
79	0.01	1.489

040.20 Indirect Available Phosphate		
Lab	Spectrometric	
14	52.46	-0.536
14	52.43	-0.289
23	52.41	-0.082
23	52.41	-0.082
23	52.40	0.000
23	52.40	0.000
61	52.40	0.000
Median	52.40	0.000
31	52.39	0.082
79	52.29	0.866
Std Dev	52.27	1.000
61	52.10	2.433
24	51.98	3.422
24	51.85	4.523

040.50 Indirect Available Phosphate		
Lab	ICP	
9	52.08	0.000
Median	52.08	0.000

040.99 Indirect Available Phosphate		
Lab	Other	
34	52.15	0.000
Median	52.15	0.000

040.XX Indirect Available Phosphate		
Lab	Total Method	
14	52.46	-0.323
14	52.43	-0.185
23	52.41	-0.069
23	52.41	-0.069
23	52.40	-0.023
23	52.40	-0.023
61	52.40	-0.023

Median	52.39	0.000
31	52.39	0.023
79	52.29	0.462
Std Dev	52.17	1.000
34	52.15	1.109
61	52.10	1.340
9	52.08	1.456
24	51.98	1.894
24	51.85	2.511

041.40 Direct Available Phosphate		
Lab	Automated	
14	51.42	-1.340
Std Dev	51.41	-1.000
Median	51.40	0.000
Std Dev	51.39	1.000
14	51.39	1.340

041.XX Direct Available Phosphate		
Lab	Total Method	
14	51.42	-1.340
Std Dev	51.41	-1.000
Median	51.40	0.000
Std Dev	51.39	1.000
14	51.39	1.340

048.20 Water Soluble Phosphate		
Lab	Spectrometric	
18	46.36	-1.865
31	46.33	-1.717
79	46.33	-1.717
Std Dev	46.18	-1.000
24	46.09	-0.531
23	46.05	-0.333
23	46.05	-0.333
61	46.02	-0.210
Median	45.98	0.000
24	45.94	0.210
23	45.92	0.284
23	45.92	0.284
Std Dev	45.78	1.000
61	45.77	1.050
32	45.53	2.211
14	45.16	4.063

14	45.15	4.113
048.99 Water Soluble Phosphate		
Lab	Other	
9	46.00	-1.340
Std Dev	45.99	-1.000
Median	45.95	0.000
Std Dev	45.91	1.000
34	45.90	1.340

048.XX Water Soluble Phosphate		
Lab	Total Method	
18	46.36	-2.751
31	46.33	-2.538
79	46.33	-2.538
Std Dev	46.11	-1.000
24	46.09	-0.834
23	46.05	-0.550
23	46.05	-0.550
61	46.02	-0.373
9	46.00	-0.231
Median	45.97	0.000
24	45.94	0.231
23	45.92	0.337
23	45.92	0.337
34	45.90	0.479
Std Dev	45.83	1.000
61	45.77	1.438
32	45.53	3.106
14	45.16	5.768
14	45.15	5.839

050.50 %K ₂ O Soluble Potash		
Lab	ICP(Oxalate)	
23	0.35	0.000
23	0.35	0.000
23	0.35	0.000
23	0.35	0.000
23	0.35	0.000
Median	0.35	0.000

050.99 Soluble Potash		
Lab	%K ₂ O	Other
61	0.37	-0.867
61	0.36	-0.552

Median	0.34	0.000
24	0.32	0.552
Std Dev	0.31	1.000
24	0.30	1.182

050.XX Soluble Potash		
Lab	%K ₂ O	Total Method
61	0.37	-2.297
Std Dev	0.36	-1.000
61	0.36	-0.766
23	0.35	0.000
23	0.35	0.000
23	0.35	0.000
Median	0.35	0.000
Std Dev	0.34	1.000
24	0.32	4.594
24	0.30	7.657

060.00 Free Water		
Lab	Vacuum Oven	
31	3.64	-2.484
79	3.64	-2.484
24	3.52	-1.700
18	3.42	-1.013
Std Dev	3.41	-1.000
24	3.36	-0.621
9	3.29	-0.163
23	3.26	0.000
23	3.26	0.000
Median	3.26	0.000
32	3.24	0.131
34	3.21	0.327
23	3.19	0.458
23	3.19	0.458
14	3.15	0.752
14	3.13	0.850

060.10 Free Water		
Lab	Vacuum Desiccator	
61	3.74	-1.340
Std Dev	3.72	-1.000
Median	3.68	0.000
Std Dev	3.64	1.000

61 3.63 1.340

060.XX Free Water		
Lab	Total Method	
61	3.74	-1.816
31	3.64	-1.443
79	3.64	-1.443
61	3.63	-1.384
Std Dev	3.53	-1.000
24	3.52	-0.972
18	3.42	-0.560
24	3.36	-0.324
9	3.29	-0.049
Median	3.27	0.000
23	3.26	0.049
23	3.26	0.049
32	3.24	0.128
34	3.21	0.245
23	3.19	0.324
23	3.19	0.324
14	3.15	0.501
14	3.13	0.560

101.30 Acid Soluble Calcium		
Lab	%CaO	ICP
34	0.40	-1.340
23	0.40	-1.072
23	0.40	-1.072
23	0.40	-1.072
23	0.40	-1.072
Std Dev	0.39	-1.000
31	0.39	-0.536
9	0.38	0.000
14	0.38	0.000
Median	0.38	0.000
14	0.37	0.268
61	0.37	0.268
61	0.37	0.268
Std Dev	0.36	1.000
24	0.36	1.072
24	0.35	1.340
32	0.35	1.340

101.XX Acid Soluble Calcium		
Lab	%CaO	Total Method
34	0.40	-1.340
23	0.40	-1.072
23	0.40	-1.072
23	0.40	-1.072
23	0.40	-1.072
Std Dev	0.39	-1.000
31	0.39	-0.536
9	0.38	0.000
14	0.38	0.000
Median	0.38	0.000
14	0.37	0.268
61	0.37	0.268
61	0.37	0.268
Std Dev	0.36	1.000
24	0.36	1.072
24	0.35	1.340
32	0.35	1.340

121.30 Acid Soluble Magnesium		
Lab	%MgO	ICP
31	2.54	-1.479
Std Dev	2.47	-1.000
24	2.41	-0.554
23	2.37	-0.259
23	2.37	-0.259
24	2.37	-0.259
23	2.35	-0.074
23	2.35	-0.074
Median	2.34	0.000
9	2.33	0.074
14	2.25	0.665
14	2.23	0.776
Std Dev	2.20	1.000
61	2.18	1.183
61	2.17	1.257
34	2.16	1.294
32	2.08	1.885

121.XX Acid Soluble Magnesium		
Lab	%MgO	Total Method
31	2.54	-1.479
Std Dev	2.47	-1.000

24	2.41	-0.554
23	2.37	-0.259
23	2.37	-0.259
24	2.37	-0.259
23	2.35	-0.074
23	2.35	-0.074
Median	2.34	0.000
9	2.33	0.074
14	2.25	0.665
14	2.23	0.776
Std Dev	2.20	1.000
61	2.18	1.183
61	2.17	1.257
34	2.16	1.294
32	2.08	1.885

144..01 Sulfate Sulfur (S)		
Lab	Gravimetric	
18	1.37	-2.680
Std Dev	1.28	-1.000
61	1.23	0.000
61	1.23	0.000
Median	1.23	0.000

144.70 Sulfur		
Lab	Spectrometric	
14	1.19	0.000
14	1.19	0.000
Median	1.19	0.000

144.99 Sulfate Sulfur (S)		
Lab	Other	
24	1.26	-1.608
Std Dev	1.24	-1.000
34	1.24	-0.804
23	1.23	0.000
23	1.23	0.000
23	1.23	0.000
23	1.23	0.000
Median	1.23	0.000
9	1.22	0.536
Std Dev	1.21	1.000
24	1.20	1.608
31	1.13	5.360

32 1.11 6.164

144.XX Sulfate Sulfur (S)		
Lab	Total Method	
18	1.37	-5.772
24	1.26	-1.237
Std Dev	1.25	-1.000
34	1.24	-0.618
23	1.23	0.000
23	1.23	0.000
23	1.23	0.000
23	1.23	0.000
61	1.23	0.000
61	1.23	0.000
Median	1.23	0.000
9	1.22	0.412
Std Dev	1.20	1.000
24	1.20	1.237
14	1.19	1.443
14	1.19	1.443
31	1.13	4.123
32	1.11	4.742

151.30 Total Arsenic		
Lab	ICP	
61	<1	0.000
61	<1	0.000
24	3.77	-0.315
31	3.75	0.000
Median	3.75	0.000
18	3.60	2.365

151.XX Total Arsenic		
Lab	Total Method	
61	<1	0.000
61	<1	0.000
24	3.77	-0.315
31	3.75	0.000
Median	3.75	0.000
18	3.60	2.365

165.99 Acid Soluble Boron		
Lab	PPM	Other
24	134.00	0.000

Median	134.00	0.000
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65.XX, ppm		Acid Soluble Boron
Lab	PPM	Total Method
24	134.00	0.000
Median	134.00	0.000

181.00		Total Cadmium
Lab		Atomic Absorbtion
18	46.50	0.000
Median	46.50	0.000

181.30		Total Cadmium
Lab	PPM	ICP
9	47.42	-1.711
Std Dev	45.58	-1.000
61	43.00	0.000
Median	43.00	0.000
61	40.50	0.969

181.99		Total Cadmium
Lab		Other
24	48.30	0.000
Median	48.30	0.000

181.XX		Total Cadmium
Lab	PPM	Total Method
24	48.30	-0.546
9	47.42	-0.278
18	46.50	0.000
Median	46.50	0.000
Std Dev	43.21	1.000
61	43.00	1.062
61	40.50	1.821

190.00		Aluminum
Lab	%Al ₂ O ₃	ICP
9	1.38	-4.467
34	1.31	-1.340
14	1.31	-1.117
14	1.31	-1.117
Std Dev	1.30	-1.000
61	1.30	-0.893
24	1.30	-0.670

23	1.28	0.000
23	1.28	0.000
Median	1.28	0.000
23	1.28	0.223
23	1.28	0.223
Std Dev	1.26	1.000
61	1.26	1.117
24	1.25	1.340
32	1.22	2.680

190.99		Aluminum
Lab	%Al ₂ O ₃	Atomic Absorption
31	1.28	0.000
Median	1.28	0.000

190.XX		Aluminum
Lab	%Al ₂ O ₃	Total Method
9	1.38	-4.661
34	1.31	-1.398
14	1.31	-1.165
14	1.31	-1.165
Std Dev	1.30	-1.000
61	1.30	-0.932
24	1.30	-0.699
23	1.28	0.000
23	1.28	0.000
Median	1.28	0.000
23	1.28	0.233
23	1.28	0.233
31	1.28	0.233
Std Dev	1.26	1.000
61	1.26	1.165
24	1.25	1.398
32	1.22	2.797

191.30		Total Chromium
Lab		ICP
31	486.00	-1.088
Std Dev	484.34	-1.000
9	476.00	-0.557
Median	465.50	0.000
61	455.00	0.557
61	448.00	0.929

191.99		Total Chromium
Lab	PPM	Other
24	457.00	0.000
Median	457.00	0.000

191.XX		Total Chromium
Lab	PPM	Total Method
31	486.00	-1.850
9	476.00	-1.212
Std Dev	472.67	-1.000
24	457.00	0.000
Median	457.00	0.000
61	455.00	0.128
61	448.00	0.574

202.30		Acid Soluble Cobalt
Lab	PPM	ICP
61	3.00	0.000
61	3.00	0.000
Median	3.00	0.000
Std Dev	2.50	1.000
9	1.67	2.680

202.99		Acid Soluble Cobalt
Lab		Other
24	1.71	0.000
Median	1.71	0.000

202.XX		Acid Soluble Cobalt
Lab	PPM	Total Method
61	3.00	-0.664
61	3.00	-0.664
Median	2.36	0.000
24	1.71	0.664
9	1.67	0.711

221.30		Acid Soluble Copper
Lab	PPM	ICP
61	<1	0.000
61	<1	0.000
Median	0.00	0.000

221.99		Acid Soluble Copper
Lab		Other

24	0.75	0.000
Median	0.75	0.000

221.XX		Acid Soluble Copper
Lab	PPM	Total Method
61	<1	0.000
61	<1	0.000
24	0.75	0.000
Median	0.75	0.000

241.30		Acid Soluble Iron
Lab	%Fe ₂ O ₃	ICP
24	2.30	-1.540
34	2.29	-1.426
Std Dev	2.27	-1.000
23	2.26	-0.741
23	2.26	-0.741
23	2.24	-0.285
23	2.24	-0.285
24	2.23	-0.057
Median	2.23	0.000
9	2.23	0.057
14	2.22	0.285
32	2.20	0.627
14	2.20	0.741
31	2.19	0.855
Std Dev	2.18	1.000
61	2.18	1.197
61	2.15	1.882

241.XX		Acid Soluble Iron
Lab	%Fe ₂ O ₃	Total Method
24	2.30	-1.540
34	2.29	-1.426
Std Dev	2.27	-1.000
23	2.26	-0.741
23	2.26	-0.741
23	2.24	-0.285
23	2.24	-0.285
24	2.23	-0.057
Median	2.23	0.000
9	2.23	0.057
14	2.22	0.285
32	2.20	0.627

14	2.20	0.741
31	2.19	0.855
Std Dev	2.18	1.000
61	2.18	1.197
61	2.15	1.882

251.30	PPM	Total Lead
Lab		ICP
61	0.60	-1.340
Std Dev	0.59	-1.000
Median	0.55	0.000
Std Dev	0.51	1.000
61	0.50	1.340

251.99	Total Lead	
Lab	Other	
24	<0.27	0.000
Median	0.00	0.000

251.XX	Total Lead	
Lab	PPM	Total Method
24	<0.27	0.000
61	0.60	-1.340
Std Dev	0.59	-1.000
Median	0.55	0.000
Std Dev	0.51	1.000
61	0.50	1.340

261.30	Acid Soluble Manganese	
Lab	ICP	
9	106.00	-1.340
Std Dev	105.30	-1.000
Median	103.25	0.000
Std Dev	101.20	1.000
31	100.50	1.340

261.99	Acid Soluble Manganese	
Lab	PPM	Other
24	98.40	-1.294
Std Dev	98.08	-1.000
61	97.00	0.000
Median	97.00	0.000
Std Dev	95.92	1.000
61	95.50	1.386

261.XX	Acid Soluble Manganese	
Lab	PPM	Total Method
9	106.00	-2.910
Std Dev	101.01	-1.000
31	100.50	-0.804
24	98.40	0.000
Median	98.40	0.000
61	97.00	0.536
Std Dev	95.79	1.000
61	95.50	1.110

281.30	Total Mercury	
Lab	PPM	ICP
24	<0.07	0.000
Median	0.00	0.000

281.XX	Total Mercury	
Lab	PPM	Total Method
24	<0.07	0.000
Median	0.00	0.000

289.30	Total Molybdenum	
Lab	PPM	ICP
9		

289.99	Total Molybdenum	
Lab	PPM	Other
24	20.30	0.000
Median	20.30	0.000

289.XX	Total Molybdenum	
Lab	PPM	Total Method
24	20.30	-0.771
9	20.00	-0.551
Median	19.25	0.000
61	18.50	0.551
Std Dev	17.89	1.000
61	17.50	1.285

291.30	Total Nickel	
Lab	ICP	
9	54.00	-1.787
Std Dev	52.24	-1.000
61	50.00	0.000

Median	50.00	0.000
61	48.00	0.893

291.99	Total Nickel	
Lab	PPM	Other
24	51.60	0.000
Median	51.60	0.000

291.XX	Total Nickel	
Lab	PPM	Total Method
9	54.00	-1.588
Std Dev	52.81	-1.000
24	51.60	-0.397
Median	50.80	0.000
61	50.00	0.397
Std Dev	48.79	1.000
61	48.00	1.390

301.30	Total Selenium	
Lab	PPM	ICP
61	<1	0.000
61	<1	0.000
24	<0.50	0.000
Median	0.00	0.000

301.XX	Total Selenium	
Lab	PPM	Total Method
61	<1	0.000
61	<1	0.000
24	<0.50	0.000
Median	0.00	0.000

311.00	Sodium	
Lab	%Na ₂ O	Atomic Absorbtion
61	0.33	0.000
Median	0.33	0.000

311.99	Sodium	
Lab	%Na ₂ O	Other
24	0.40	-7.147
Std Dev	0.36	-1.000
24	0.36	-0.893
23	0.36	0.000
23	0.36	0.000

Median	0.36	0.000
23	0.35	0.893
23	0.35	0.893
Std Dev	0.35	1.000
61	0.33	5.360

311.XX	Sodium	
Lab	%Na ₂ O	Total Method
24	0.40	-5.062
Std Dev	0.36	-1.000
24	0.36	-0.893
23	0.36	-0.298
23	0.36	-0.298
Median	0.35	0.000
23	0.35	0.298
23	0.35	0.298
Std Dev	0.34	1.000
61	0.33	2.680
61	0.33	3.276

321.30	Acid Soluble Zinc	
Lab	PPM	ICP
9	775.50	-3.769
Std Dev	727.19	-1.000
24	712.00	-0.129
Median	709.75	0.000
61	707.50	0.129
61	695.50	0.817

321.XX	Acid Soluble Zinc	
Lab	PPM	Total Method
9	775.50	-3.769
Std Dev	727.19	-1.000
24	712.00	-0.129
Median	709.75	0.000
61	707.50	0.129
61	695.50	0.817

325.10	Fluoride	
Lab	%	Electrode
23	3.93	-1.347
23	3.93	-1.347
23	3.87	-1.318
23	3.87	-1.318

31	0.88	-0.009
32	0.86	0.000
Median	0.86	0.000
24	0.82	0.018
24	0.81	0.022
34	0.81	0.022
9	0.80	0.026
14	0.73	0.059

325.99		Fluoride
Lab	%	Other
61	0.80	-0.558
61	0.79	0.000
Median	0.79	0.000
14	0.73	2.122

325.XX		Fluoride
Lab	%	Total Method
23	3.93	-1.800
23	3.93	-1.800
23	3.87	-1.763
23	3.87	-1.763
31	0.88	-0.038
32	0.86	-0.026
24	0.82	-0.003
Median	0.82	0.000
24	0.81	0.003
34	0.81	0.003
9	0.80	0.009
61	0.80	0.009
61	0.79	0.017
14	0.73	0.050
14	0.73	0.052