

AFPC

Sample

2013-1

Grade

18-46-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, Other		001.99	14	17.14	0.14
Method Group 001.XX PCT			14	17.14	0.17
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	2	17.69	0.06
Total Nitrogen, Salicylic	955.04d	010.12	1	17.47	0.00
Total Nitrogen, Combustion	993.13	010.60	21	17.74	0.13
Total Nitrogen, Other		010.99	5	17.49	0.37
Method Group 010.XX PCT			29	17.70	0.28
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	4	46.04	0.09
Total Phosphate, Spectrometric	978.02	020.20	20	46.08	0.20
Total Phosphate, ICP	970.03	020.40	3	46.31	0.13
Total Phosphate, Other	993.13	020.99	1	46.36	0.00
Method Group 020.XX PCT			28	46.10	0.28
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	11	0.17	0.10
Insoluble Phosphate, Automated	978.01	030.40	2	0.21	0.01
Insoluble Phosphate, Other		030.99	2	0.28	0.01
Method Group 030.XX PCT			15	0.22	0.12
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Spectrometric	960.02	040.20	11	45.87	0.20
Indirect Available Phosphate, Automated	960.02	040.40	1	46.12	0.00
Indirect Available Phosphate, Other		040.99	2	46.09	0.04
Method Group 040.XX PCT			14	45.94	0.30
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	3	45.14	1.56
Direct Available Phosphate, Automated	978.01	041.40	1	46.17	0.00

Direct Available Phosphate, ICP		041.50	2	45.02	0.38
Direct Available Phosphate, EDTA Extract	993.01	041.60	7	45.95	0.33
Method Group 041.XX PCT			13	45.85	0.44
WATER SOLUBLE PHOSPHATE					
Water Soluble Phosphate, Spectrometric	970.01	048.20	14	41.23	0.58
Water Soluble Phosphate, Other		048.99	3	41.28	0.67
Method Group 048.XX PCT			17	41.27	0.74
SOLUBLE POTASH AS K₂O					
Soluble Potash, ICP(Oxalate)		050.50	2	0.11	0.00
Soluble Potash, ICP(Citrate)		050.51	1	0.22	0.00
Soluble Potash, Other		050.99	6	0.11	0.00
Method Group 050.XX PCT			9	0.11	0.00
FREE WATER					
Free Water, Vacuum Oven	965.08B	060.00	13	2.75	0.08
Free Water, Vacuum Desiccate	965.08A	060.10	2	2.81	0.10
Free Water, Other		060.99	1	2.72	0.00
Method Group 060.XX PCT			16	2.74	0.10
ACID SOLUBLE CALCIUM AS CaO					
Acid Soluble Calcium, Atomic Absorption	945.04	101.00	1	0.20	0.00
Acid Soluble Calcium, ICP		101.30	14	0.32	0.04
Method Group 101.XX PCT			15	0.31	0.05
ACID SOLUBLE MAGNESIUM AS MgO					
Acid Soluble Magnesium, Atomic Absorption	984.01	121.00	1	1.51	0.00
Acid Soluble Magnesium, ICP		121.30	14	1.53	0.05
Method Group 121.XX PCT			15	1.51	0.06
SULFATE SULFUR (S)					
Sulfur, Gravimetric	980.02(a)	144.01	4	1.06	0.04
Sulfur, Spectrometric		144.70	2	1.10	0.00
Sulfur, Other		144.99	10	1.10	0.94
Method Group 144.XX PCT			16	1.10	0.08
TOTAL ARSENIC					
Total Arsenic, ICP	980.02(b)	151.02	4	18	0.9
Total Arsenic, Other		151.99	3	15	0.1

Method Group 151.XX PPM		7	17	2.6
ACID SOLUBLE BORON				
Acid Soluble Boron, Other	165.99	1	47	0.0
Method Group 165.XX PPM		1	47	0.0
TOTAL CADMIUM				
Total Cadmium, Atomic Absorbtion	181.00	1	3	0.0
Total Cadmium, ICP	181.30	4	3	0.0
Total Cadmium, Other	181.99	1	3	0.0
Method Group 181.XX PPM		6	3	0.2
ALUMINUM AS Al₂O₃				
ICP, %		13	1.28	0.03
Method Group 190.XX PCT		13	1.28	0.04
TOTAL CHROMIUM				
Total Chromium, Atomic Absorbtion	191.00	1	124	0.0
Total Chromium, ICP	191.30	4	111	4.5
Total Chromium, Other	191.99	1	110	0.0
Method Group 191.XX PPM		6	111	9.6
ACID SOLUBLE COBALT				
Acid Soluble Cobalt, ICP	202.30	3	4	0.4
Acid Soluble Cobalt, Other	202.99	1	3	0.0
Method Group 202.XX PPM		4	4	0.5
ACID SOLUBLE COPPER				
Acid Soluble Copper, Atomic Absorption	975.01 221.00	1	2	0.0
Acid Soluble Copper, ICP	221.30	3	10	3.0
Acid Soluble Copper, Other	221.99	1	0	0.0
Method Group 221.XX PPM		5	14	6.1
ACID SOLUBLE IRON AS Fe₂O₃				
Acid Soluble Iron, ICP	241.30	14	1.89	0.05
Method Group 241.XX PCT		15	1.88	0.05
TOTAL LEAD				
Total Lead, Atomic Absorbtion	251.00	1	3	0.0
Total Lead, ICP	251.30	2	2	0.2
Total Lead, Other	251.99	1	3	0.0

Method Group 251.XX PPM			4	3	0.2
ACID SOLUBLE MANGANESE					
Acid Soluble Manganese, Atomic Absorption	972.02b	261.11	1	248	0.0
Acid Soluble Manganese, ICP	972.02a	261.30	2	254	0.8
Acid Soluble Manganese, Other		261.99	3	249	11.8
Method Group 261.XX PPM			6	251	6.3
TOTAL MOLYBDENUM					
Total Molybdenum, ICP		289.30	3	11	0.9
Total Molybdenum, Other		289.99	1	12	0.0
Method Group 289.XX PPM			4	11	1.0
TOTAL NICKEL					
Total Nickel, ICP		291.30	3	17	0.4
Total Nickel, Other		291.99	1	17	0.0
Method Group 291.XX PPM			4	17	0.3
SODIUM AS Na₂O					
Sodium, Atomic Absorbtion	983.04	311.00	1	0.21	0.00
Sodium, Other		311.99	5	0.23	0.01
Method Group 311.XX PCT			6	0.23	0.02
ACID SOLUBLE ZINC					
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	1	49.7	0.0
Acid Soluble Zinc, ICP		321.30	3	46.0	4.3
Acid Soluble Zinc, Other		321.99	1	49.7	0.0
Method Group 321.XX %			5	49.7	3.4
FLUORIDE					
Volumetric		325.10	13	2.17	0.07
Distilled/Electrode		325.99	2	2.21	0.01
Method Group 325.XX PCT			15	2.17	0.08

001.99 Ammoniacal Nitrogen		
Lab		Other
24	17.27	-0.966
24	17.25	-0.784
23	17.24	-0.747
23	17.24	-0.711
31	17.17	-0.201
34	17.16	-0.164
35	17.16	-0.164
Median	17.14	0.000
32	17.12	0.164
61	17.06	0.602
61	17.05	0.675
275	17.03	0.784
Std Dev	17.00	1.000
32	16.98	1.185
275	16.83	2.242
38	16.49	4.722

001.XX Ammoniacal Nitrogen		
Lab		Total Method
24	17.27	-0.966
24	17.25	-0.784
23	17.24	-0.747
23	17.24	-0.711
31	17.17	-0.201
34	17.16	-0.164
35	17.16	-0.164
Median	17.14	0.000
32	17.12	0.164
61	17.06	0.602
61	17.05	0.675
275	17.03	0.784
Std Dev	17.00	1.000
32	16.98	1.185
275	16.83	2.242
38	16.49	4.722

010.11 Total Nitrogen		
Lab		Modified Comprehensive
113	17.77	-1.340
Std Dev	17.75	-1.000
Median	17.69	0.000
Std Dev	17.63	1.000

219 17.61 1.340

010.12 Total Nitrogen		
Lab		Salicylic
107	17.47	0.000
Median	17.47	0.000

010.60 Total Nitrogen		
Lab		Combustion
137	17.97	-1.712
47	17.97	-1.675
Std Dev	17.87	-1.000
29	17.84	-0.737
77	17.82	-0.596
14	17.81	-0.521
14	17.81	-0.521
35	17.80	-0.447
24	17.79	-0.372
66	17.79	-0.372
24	17.76	-0.149
61	17.74	0.000
Median	17.74	0.000
49	17.74	0.000
79	17.70	0.298
219	17.68	0.447
31	17.67	0.558
110	17.63	0.819
9	17.61	0.968
Std Dev	17.61	1.000
61	17.47	2.010
38	17.46	2.107
103	17.37	2.792
95	16.90	6.253

010.99 Total Nitrogen		
Lab		Other
34	17.77	-0.772
99	17.61	-0.338
40	17.49	0.000
Median	17.49	0.000
Std Dev	17.12	1.000
32	17.12	1.002
32	16.98	1.381

010.XX Total Nitrogen		
Lab		Total Method
137	17.97	-1.186
47	17.97	-1.164
Std Dev	17.93	-1.000
29	17.84	-0.611
77	17.82	-0.527
14	17.81	-0.483
14	17.81	-0.483
35	17.80	-0.439
24	17.79	-0.395
66	17.79	-0.395
34	17.77	-0.308
113	17.77	-0.286
24	17.76	-0.264
61	17.74	-0.176
49	17.74	-0.176
79	17.70	0.000
Median	17.70	0.000
219	17.68	0.088
31	17.67	0.154
110	17.63	0.308
9	17.61	0.395
99	17.61	0.395
219	17.61	0.395
40	17.49	0.945
Std Dev	17.47	1.000
61	17.47	1.010
107	17.47	1.010
38	17.46	1.068
103	17.37	1.472
32	17.12	2.570
32	16.98	3.185
95	16.90	3.515

020.10 Total Phosphate		
Lab		Gravimetric Quimociac
40	46.16	-1.369
Std Dev	46.12	-1.000
241	46.08	-0.495
Median	46.04	0.000
219	46.00	0.495
Std Dev	45.95	1.000
35	45.95	1.020

020.20 Total Phosphate		
Lab		Spectrometric
32	46.79	-3.470
24	46.41	-1.618
9	46.35	-1.321
24	46.30	-1.074
113	46.30	-1.050
Std Dev	46.28	-1.000
34	46.24	-0.778
61	46.20	-0.580
103	46.20	-0.556
61	46.20	-0.556
275	46.11	-0.136
Median	46.08	0.000
23	46.06	0.136
79	46.04	0.235
31	46.02	0.309
23	46.01	0.358
275	46.00	0.408
14	45.93	0.753
14	45.91	0.852
Std Dev	45.88	1.000
95	45.80	1.396
32	45.69	1.939
110	45.25	4.137

020.40 Total Phosphate		
Lab		Automated
9	46.32	-0.075
137	46.31	0.000
Median	46.31	0.000
Std Dev	46.18	1.000
219	45.97	2.605

020.99 Total Phosphate		
Lab		Other
99	46.36	0.000
Median	46.36	0.000

020.XX Total Phosphate		
Lab		Total Method
32	46.79	-2.995
24	46.41	-1.367

99	46.36	-1.128
9	46.35	-1.107
Std Dev	46.33	-1.000
9	46.32	-0.977
137	46.31	-0.933
24	46.30	-0.890
113	46.30	-0.868
34	46.24	-0.629
61	46.20	-0.456
103	46.20	-0.434
61	46.20	-0.434
40	46.16	-0.260
275	46.11	-0.065
Median	46.10	0.000
241	46.08	0.065
23	46.06	0.174
79	46.04	0.260
31	46.02	0.326
23	46.01	0.369
275	46.00	0.412
219	46.00	0.434
219	45.97	0.564
35	45.95	0.629
14	45.93	0.716
14	45.91	0.803
Std Dev	45.86	1.000
95	45.80	1.280
32	45.69	1.758
110	45.25	3.689

030.20	Insoluble Phosphate	
Lab	Spectrometric	
23	0.33	-1.649
61	0.31	-1.495
23	0.30	-1.340
Std Dev	0.26	-1.000
31	0.24	-0.773
61	0.22	-0.515
79	0.17	0.000
Median	0.17	0.000
113	0.16	0.103
24	0.15	0.206
24	0.13	0.361
14	0.11	0.567

14	0.11	0.567
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030.40	Insoluble Phosphate	
Lab	Automated	
34	0.22	-1.340
Std Dev	0.22	-1.000
Median	0.21	0.000
Std Dev	0.20	1.000
9	0.20	1.340

030.99	Insoluble Phosphate	
Lab	Other	
32	0.29	-1.340
Std Dev	0.29	-1.000
Median	0.28	0.000
Std Dev	0.27	1.000
32	0.27	1.340

030.XX	Insoluble Phosphate	
Lab	Total Method	
23	0.33	-1.156
Std Dev	0.31	-1.000
61	0.31	-0.998
23	0.30	-0.841
32	0.29	-0.788
32	0.27	-0.525
31	0.24	-0.263
34	0.22	-0.053
61	0.22	0.000
Median	0.22	0.000
9	0.20	0.158
79	0.17	0.525
113	0.16	0.631
24	0.15	0.736
24	0.13	0.893
Std Dev	0.12	1.000
14	0.11	1.104
14	0.11	1.104

040.20	Indirect Available Phosphate	
Lab	Spectrometric	
24	46.28	-2.035
24	46.16	-1.414
113	46.14	-1.340

Std Dev	46.07	-1.000
61	45.98	-0.546
61	45.89	-0.099
79	45.87	0.000
Median	45.87	0.000
14	45.82	0.248
14	45.80	0.347
31	45.78	0.447
23	45.73	0.695
23	45.72	0.769

040.40	Indirect Available Phosphate	
Lab	Automated	
9	46.12	0.000
Median	46.12	0.000

040.99	Indirect Available Phosphate	
Lab	Other	
9	46.15	-1.340
Std Dev	46.13	-1.000
Median	46.09	0.000
Std Dev	46.05	1.000
34	46.03	1.340

040.XX	Indirect Available Phosphate	
Lab	Total Method	
24	46.28	-1.401
Std Dev	46.18	-1.000
24	46.16	-0.893
9	46.15	-0.873
113	46.14	-0.832
9	46.12	-0.751
34	46.03	-0.386
61	45.98	-0.183
Median	45.94	0.000
61	45.89	0.183
79	45.87	0.264
14	45.82	0.467
14	45.80	0.548
31	45.78	0.629
23	45.73	0.832
23	45.72	0.893

041.10	Direct Available Phosphate	
Lab	Gravimetric Quimociac	
219	45.89	-0.483
47	45.14	0.000
Median	45.14	0.000
Std Dev	43.57	1.000
107	41.71	2.197

041.40	Direct Available Phosphate	
Lab	Automated	
103	46.17	0.000
Median	46.17	0.000

041.50	Direct Available Phosphate	
Lab	ICP	
66	45.53	-1.340
Std Dev	45.40	-1.000
Median	45.02	0.000
Std Dev	44.64	1.000
47	44.52	1.340

041.60	Direct Available Phosphate	
Lab	EDTA Extract	
49	46.66	-2.126
77	46.53	-1.737
Std Dev	46.28	-1.000
29	46.01	-0.180
219	45.95	0.000
Median	45.95	0.000
275	45.85	0.299
137	45.80	0.464
275	45.78	0.509

041.XX	Direct Available Phosphate	
Lab	Total Method	
49	46.66	-2.261
77	46.53	-1.898
Std Dev	46.21	-1.000
103	46.17	-0.879
29	46.01	-0.447
219	45.95	-0.279
219	45.89	-0.112
275	45.85	0.000
Median	45.85	0.000

137	45.80	0.154
275	45.78	0.195
66	45.53	0.893
Std Dev	45.49	1.000
47	45.14	1.996
47	44.52	3.727
107	41.71	11.571

048.20 Water Soluble Phosphate		
Lab	Spectrometric	
113	41.74	-0.875
9	41.53	-0.513
31	41.43	-0.340
79	41.32	-0.142
24	41.29	-0.099
23	41.27	-0.056
24	41.27	-0.056
Median	41.23	0.000
23	41.20	0.056
61	40.98	0.435
Std Dev	40.65	1.000
61	40.61	1.073
14	40.51	1.254
14	40.50	1.271
275	39.88	2.331
275	39.80	2.469

048.99 Water Soluble Phosphate		
Lab	Other	
32	42.11	-1.243
Std Dev	41.95	-1.000
34	41.28	0.000
Median	41.28	0.000
Std Dev	40.61	1.000
32	40.32	1.437

048.XX Water Soluble Phosphate		
Lab	Total Method	
32	42.11	-1.398
Std Dev	41.87	-1.000
113	41.74	-0.786
9	41.53	-0.438
31	41.43	-0.273
79	41.32	-0.083

24	41.29	-0.041
34	41.28	-0.025
23	41.27	0.000
24	41.27	0.000
Median	41.27	0.000
23	41.20	0.108
61	40.98	0.471
Std Dev	40.66	1.000
61	40.61	1.084
14	40.51	1.257
14	40.50	1.274
32	40.32	1.563
275	39.88	2.291
275	39.80	2.424

050.50 %K ₂ O Soluble Potash		
Lab	ICP(Oxalate)	
23	0.11	0.000
23	0.11	0.000
Median	0.11	0.000

050.51 %K ₂ O Soluble Potash		
Lab	ICP(Citrate)	
137	0.22	0.000
Median	0.22	0.000

050.99 Soluble Potash		
Lab	%K ₂ O	Other
99	0.13	-5.045
Std Dev	0.12	-1.000
24	0.12	-0.315
61	0.12	-0.315
Median	0.11	0.000
241	0.11	0.315
Std Dev	0.11	1.000
24	0.11	1.261
61	0.11	2.838

050.XX Soluble Potash		
Lab	%K ₂ O	Total Method
137	0.22	-27.336
99	0.13	-4.556
Std Dev	0.12	-1.000
24	0.12	-0.536

61	0.12	-0.536
241	0.11	0.000
Median	0.11	0.000
23	0.11	0.804
23	0.11	0.804
24	0.11	0.804
Std Dev	0.11	1.000
61	0.11	2.144

060.00 Free Water		
Lab	Vacuum Oven	
24	2.88	-1.723
79	2.86	-1.404
24	2.83	-1.021
Std Dev	2.82	-1.000
31	2.82	-0.957
23	2.82	-0.893
23	2.81	-0.830
113	2.75	0.000
Median	2.75	0.000
14	2.74	0.128
34	2.73	0.191
32	2.72	0.383
14	2.71	0.510
Std Dev	2.67	1.000
9	2.63	1.468
32	2.58	2.106

060.10 Free Water		
Lab	Vacuum Desiccate	
61	2.94	-1.340
Std Dev	2.90	-1.000
Median	2.81	0.000
Std Dev	2.71	1.000
61	2.68	1.340

060.99 Free Water		
Lab	Other	
275	2.72	0.000
Median	2.72	0.000

060.XX Free Water		
Lab	Total Method	
61	2.94	-2.403

24	2.88	-1.725
79	2.86	-1.417
24	2.83	-1.047
Std Dev	2.82	-1.000
31	2.82	-0.986
23	2.82	-0.924
23	2.81	-0.863
113	2.75	-0.062
Median	2.74	0.000
14	2.74	0.062
34	2.73	0.123
275	2.72	0.246
32	2.72	0.308
14	2.71	0.431
61	2.68	0.801
Std Dev	2.66	1.000
9	2.63	1.355
32	2.58	1.971

101.00 Acid Soluble Calcium		
Lab	%CaO	Atomic Absorption
219	0.20	0.000
Median	0.20	0.000

101.30 Acid Soluble Calcium		
Lab	%CaO	ICP
61	0.40	-2.186
31	0.38	-1.763
24	0.36	-1.199
61	0.36	-1.058
Std Dev	0.35	-1.000
14	0.35	-0.917
14	0.33	-0.353
24	0.33	-0.212
Median	0.32	0.000
9	0.31	0.212
23	0.31	0.212
34	0.31	0.212
23	0.31	0.353
32	0.30	0.494
38	0.29	0.776
Std Dev	0.28	1.000
32	0.26	1.622

101.XX Acid Soluble Calcium		
Lab	%CaO	Total Method
61	0.40	-2.278
31	0.38	-1.876
24	0.36	-1.340
61	0.36	-1.206
14	0.35	-1.072
Std Dev	0.35	-1.000
14	0.33	-0.536
24	0.33	-0.402
9	0.31	0.000
23	0.31	0.000
34	0.31	0.000
Median	0.31	0.000
23	0.31	0.134
32	0.30	0.268
38	0.29	0.536
Std Dev	0.27	1.000
32	0.26	1.340
219	0.20	3.042

121.00 Acid Soluble Magnesium		
Lab	%MgO	Atomic Absorption
219	1.51	0.000
Median	1.51	0.000

121.30 Acid Soluble Magnesium		
Lab	%MgO	ICP
24	1.62	-1.855
24	1.61	-1.752
61	1.61	-1.752
Std Dev	1.57	-1.000
23	1.57	-0.928
23	1.57	-0.928
9	1.56	-0.722
32	1.54	-0.309
Median	1.53	0.000
34	1.51	0.309
14	1.51	0.412
38	1.51	0.412
61	1.51	0.412
14	1.50	0.618
31	1.49	0.825
Std Dev	1.48	1.000

32 1.43 1.958

121.XX Acid Soluble Magnesium		
Lab	%MgO	Total Method
24	1.62	-2.165
24	1.61	-2.062
61	1.61	-2.062
23	1.57	-1.237
23	1.57	-1.237
9	1.56	-1.031
Std Dev	1.56	-1.000
32	1.54	-0.618
34	1.51	0.000
Median	1.51	0.000
14	1.51	0.103
38	1.51	0.103
61	1.51	0.103
219	1.51	0.103
14	1.50	0.309
31	1.49	0.515
Std Dev	1.46	1.000
32	1.43	1.649

144..01 Sulfate Sulfur (S)		
Lab		Gravimetric
241	1.18	-2.737
Std Dev	1.10	-1.000
219	1.08	-0.342
Median	1.06	0.000
61	1.05	0.342
61	1.04	0.570

144.70 Sulfur		
Lab		Spectrometric
14	1.10	-1.340
Std Dev	1.10	-1.000
Median	1.10	0.000
Std Dev	1.09	1.000
14	1.09	1.340

144.99 Sulfate Sulfur (S)		
Lab		Other
9	3.29	-2.327
32	2.98	-1.992

32	2.75	-1.747
Std Dev	2.04	-1.000
38	1.16	-0.064
23	1.11	-0.003
Median	1.10	0.000
24	1.10	0.003
23	1.09	0.013
34	1.09	0.013
24	1.08	0.024
31	1.00	0.114

144.XX Sulfate Sulfur (S)		
Lab		Total Method
9	3.29	-33.235
32	2.98	-28.466
32	2.75	-24.983
241	1.18	-1.287
38	1.16	-1.030
Std Dev	1.16	-1.000
23	1.11	-0.151
14	1.10	-0.076
24	1.10	-0.076
Median	1.10	0.000
14	1.09	0.076
23	1.09	0.076
34	1.09	0.076
24	1.08	0.227
219	1.08	0.303
61	1.05	0.757
61	1.04	0.908
Std Dev	1.03	1.000
31	1.00	1.514

151.30 Total Arsenic		
Lab		ICP
24	18.60	-1.137
Std Dev	18.47	-1.000
61	18.05	-0.541
Median	17.55	0.000
61	17.05	0.541
9	16.65	0.975

151.99 Total Arsenic		
Lab		Other

113	14.89	-2.680
Std Dev	14.64	-1.000
275	14.50	0.000
275	14.50	0.000
Median	14.50	0.000

151.XX Total Arsenic		
Lab		Total Method
24	18.60	-0.914
61	18.05	-0.657
61	17.05	-0.188
9	16.65	0.000
Median	16.65	0.000
113	14.89	0.828
Std Dev	14.52	1.000
275	14.50	1.008
275	14.50	1.008

165.99 Acid Soluble Boron		
Lab	PPM	Other
24	47.10	0.000
Median	47.10	0.000

165.XX, ppm Acid Soluble Boron		
Lab	PPM	Total Method
24	47.10	0.000
Median	47.10	0.000

181.00 Total Cadmium		
Lab		Atomic Absorption
113	2.96	0.000
Median	2.96	0.000

181.30 Total Cadmium		
Lab	PPM	ICP
31	3.25	-5.360
Std Dev	3.05	-1.000
9	3.00	0.000
61	3.00	0.000
61	3.00	0.000
Median	3.00	0.000

181.99 Total Cadmium		
Lab		Other

24	3.40	0.000
Median	3.40	0.000

181.XX		Total Cadmium
Lab	PPM	Total Method
24	3.40	-2.859
31	3.25	-1.787
Std Dev	3.14	-1.000
9	3.00	0.000
61	3.00	0.000
61	3.00	0.000
Median	3.00	0.000
113	2.96	0.286

190.00		Aluminum
Lab	%Al ₂ O ₃	ICP
14	1.37	-2.531
14	1.35	-1.936
9	1.33	-1.489
Std Dev	1.31	-1.000
32	1.31	-0.893
23	1.29	-0.149
31	1.29	-0.149
34	1.28	0.000
Median	1.28	0.000
23	1.27	0.298
24	1.27	0.298
61	1.27	0.447
24	1.25	0.893
Std Dev	1.25	1.000
61	1.21	2.084
32	1.20	2.382

190.XX		Aluminum
Lab	%Al ₂ O ₃	Total Method
14	1.37	-2.531
14	1.35	-1.936
9	1.33	-1.489
Std Dev	1.31	-1.000
32	1.31	-0.893
23	1.29	-0.149
31	1.29	-0.149
34	1.28	0.000
Median	1.28	0.000

23	1.27	0.298
24	1.27	0.298
61	1.27	0.447
24	1.25	0.893
Std Dev	1.25	1.000
61	1.21	2.084
32	1.20	2.382

191.00		Total Chromium
Lab	PPM	Atomic Absorbtion
113	124.00	0.000
Median	124.00	0.000

191.30		Total Chromium
Lab	PPM	ICP
9	123.00	-2.781
Std Dev	115.04	-1.000
31	111.65	-0.241
Median	110.58	0.000
61	109.50	0.241
Std Dev	106.11	1.000
61	105.50	1.136

191.99		Total Chromium
Lab	PPM	Other
24	110.00	0.000
Median	110.00	0.000

191.XX		Total Chromium
Lab	PPM	Total Method
113	124.00	-1.675
9	123.00	-1.548
Std Dev	118.69	-1.000
31	111.65	-0.105
Median	110.83	0.000
24	110.00	0.105
61	109.50	0.168
61	105.50	0.677

202.30		Acid Soluble Cobalt
Lab	PPM	ICP
61	4.00	-0.536
9	3.80	0.000
Median	3.80	0.000

Std Dev	3.43	1.000
61	3.00	2.144

202.99		Acid Soluble Cobalt
Lab	PPM	Other
24	3.45	0.000
Median	3.45	0.000

202.XX		Acid Soluble Cobalt
Lab	PPM	Total Method
61	4.00	-0.980
9	3.80	-0.458
Median	3.63	0.000
24	3.45	0.458
Std Dev	3.24	1.000
61	3.00	1.634

221.00		Acid Soluble Copper
Lab	PPM	Atomic Absorption
219	1.87	0.000
Median	1.87	0.000

221.30		Acid Soluble Copper
Lab	PPM	ICP
9	17.15	-2.516
Std Dev	12.54	-1.000
61	9.50	0.000
Median	9.50	0.000
61	9.00	0.164

221.99		Acid Soluble Copper
Lab	PPM	Other
24	16.20	0.000
Median	16.20	0.000

221.XX		Acid Soluble Copper
Lab	PPM	Total Method
9	17.15	-0.590
24	16.20	-0.400
219	14.20	0.000
Median	14.20	0.000
61	9.50	0.940
Std Dev	9.20	1.000
61	9.00	1.040

241.30		Acid Soluble Iron
Lab	%Fe ₂ O ₃	ICP
32	2.04	-3.144
Std Dev	1.94	-1.000
24	1.93	-0.876
61	1.93	-0.773
34	1.92	-0.670
24	1.91	-0.464
14	1.91	-0.361
23	1.90	-0.258
Median	1.89	0.000
23	1.88	0.258
14	1.87	0.361
9	1.86	0.567
32	1.85	0.773
38	1.85	0.876
Std Dev	1.84	1.000
31	1.81	1.701
61	1.80	1.804

241.XX		Acid Soluble Iron
Lab	%Fe ₂ O ₃	Total Method
32	2.04	-3.685
24	1.93	-1.228
61	1.93	-1.117
34	1.92	-1.005
Std Dev	1.92	-1.000
24	1.91	-0.782
14	1.91	-0.670
23	1.90	-0.558
23	1.88	0.000
Median	1.88	0.000
14	1.87	0.112
219	1.87	0.223
9	1.86	0.335
32	1.85	0.558
38	1.85	0.670
Std Dev	1.83	1.000
31	1.81	1.563
61	1.80	1.675

251.00		Total Lead
Lab	PPM	Atomic Absorbtion

113	3.00	0.000
Median	3.00	0.000

251.30		Total Lead
Lab	PPM	ICP
61	2.50	-1.340
Std Dev	2.44	-1.000
Median	2.25	0.000
Std Dev	2.06	1.000
61	2.00	1.340

251.99		Total Lead
Lab		Other
24	2.52	0.000
Median	2.52	0.000

251.XX		Total Lead
Lab	PPM	Total Method
113	3.00	-2.478
Std Dev	2.71	-1.000
24	2.52	-0.051
Median	2.51	0.000
61	2.50	0.051
Std Dev	2.31	1.000
61	2.00	2.579

261.11		Acid Soluble Manganese
Lab		Atomic Absorption
219	247.50	0.000
Median	247.50	0.000

261.30		Acid Soluble Manganese
Lab	PPM	ICP
31	255.20	-1.340
Std Dev	254.92	-1.000
Median	254.10	0.000
Std Dev	253.28	1.000
9	253.00	1.340

261.99		Acid Soluble Manganese
Lab	PPM	Other
24	263.00	-1.234
Std Dev	260.25	-1.000
61	248.50	0.000

Median	248.50	0.000
Std Dev	236.75	1.000
61	231.50	1.446

261.XX		Acid Soluble Manganese
Lab	PPM	Total Method
24	263.00	-2.379
Std Dev	255.90	-1.000
31	255.20	-0.864
9	253.00	-0.437
Median	250.75	0.000
61	248.50	0.437
219	247.50	0.631
Std Dev	245.60	1.000
61	231.50	3.738

281.30		Total Mercury
Lab	PPM	ICP
24	<0.09	0.000
Median	0.00	0.000

281.XX		Total Mercury
Lab	PPM	Total Method
24	<0.09	0.000
Median	0.00	0.000

289.30		Total Molybdenum
Lab	PPM	ICP
9		

289.99		Total Molybdenum
Lab	PPM	Other
24	12.20	0.000
Median	12.20	0.000

289.XX		Total Molybdenum
Lab	PPM	Total Method
24	12.20	-1.218
Std Dev	12.02	-1.000
9	11.40	-0.244
Median	11.20	0.000
61	11.00	0.244
Std Dev	10.38	1.000
61	9.00	2.680

291.30		Total Nickel
Lab		ICP
9	17.15	-0.350
61	17.00	0.000
Median	17.00	0.000
Std Dev	16.57	1.000
61	16.00	2.330

291.99		Total Nickel
Lab	PPM	Other
24	17.00	0.000
Median	17.00	0.000

291.XX		Total Nickel
Lab	PPM	Total Method
9	17.15	-0.699
24	17.00	0.000
61	17.00	0.000
Median	17.00	0.000
Std Dev	16.79	1.000
61	16.00	4.661

301.30		Total Selenium
Lab	PPM	ICP
61	<1	0.000
61	<1	0.000
24	<0.27	0.000
Median	0.00	0.000

301.XX		Total Selenium
Lab	PPM	Total Method
61	<1	0.000
61	<1	0.000
24	<0.27	0.000
Median	0.00	0.000

311.00		Sodium
Lab	%Na ₂ O	Atomic Absorption
61	0.21	0.000
Median	0.21	0.000

311.99		Sodium
Lab	%Na ₂ O	Other
23	0.24	-1.340

Std Dev	0.24	-1.000
24	0.23	0.000
23	0.23	0.000
Median	0.23	0.000
Std Dev	0.22	1.000
24	0.22	1.340
61	0.17	8.710

311.XX		Sodium
Lab	%Na ₂ O	Total Method
23	0.24	-1.149
Std Dev	0.24	-1.000
24	0.23	-0.383
23	0.23	-0.383
Median	0.23	0.000
24	0.22	0.383
Std Dev	0.21	1.000
61	0.21	1.149
61	0.17	4.594

321.00		Acid Soluble Zinc
Lab		Atomic Absorption
219	49.65	0.000
Median	49.65	0.000

321.30		Acid Soluble Zinc
Lab	PPM	ICP
24	55.50	-2.214
Std Dev	50.29	-1.000
61	46.00	0.000
Median	46.00	0.000
61	44.00	0.466

321.99		Acid Soluble Zinc
Lab		Other
9	49.70	0.000
Median	49.70	0.000

321.XX		Acid Soluble Zinc
Lab	PPM	Total Method
24	55.50	-2.119
Std Dev	52.41	-1.000
9	49.70	-0.018
219	49.65	0.000

Median	49.65	0.000
Std Dev	46.89	1.000
61	46.00	1.322
61	44.00	2.046

34	2.10	1.014
32	2.08	1.376

325.10		Fluoride
Lab	%	Electrode
31	2.35	-2.539
23	2.24	-0.987
275	2.22	-0.776
14	2.21	-0.635
14	2.20	-0.494
275	2.17	-0.071
23	2.17	0.000
Median	2.17	0.000
24	2.14	0.353
9	2.13	0.494
32	2.12	0.705
24	2.10	0.917
34	2.10	0.917
32	2.08	1.269

325.99		Fluoride
Lab	%	Other
61	2.23	-1.340
Median	2.21	0.000
61	2.20	1.340

325.XX		Fluoride
Lab	%	Total Method
31	2.35	-2.535
23	2.24	-0.942
61	2.23	-0.797
275	2.22	-0.724
14	2.21	-0.579
14	2.20	-0.435
61	2.20	-0.435
275	2.17	0.000
Median	2.17	0.000
23	2.17	0.072
24	2.14	0.435
9	2.13	0.579
32	2.12	0.797
24	2.10	1.014