

AFPC

Sample

2016-12

Grade

11-52-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	1	11.16	0.00
Ammoniacal Nitrogen, Other		001.99	11	11.18	0.06
Method Group 001.XX PCT			12	11.18	0.06
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	2	11.23	0.03
Total Nitrogen, Combustion	993.13	010.60	14	11.23	0.18
Total Nitrogen, Other		010.99	2	11.20	0.02
Method Group 010.XX PCT			18	11.22	0.12
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	1	54.39	0.00
Total Phosphate, Spectrometric	978.02	020.20	15	53.72	0.38
Total Phosphate, ICP	970.03	020.40	3	53.88	0.11
Method Group 020.XX PCT			19	53.78	0.43
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	9	0.73	0.13
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	1	0.45	0.00
Insoluble Phosphate, Automated	978.01	030.40	3	0.63	0.12
Insoluble Phosphate, Other		030.99	2	0.44	0.00
Method Group 030.XX PCT			15	0.63	0.21
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Spectrometric	960.02	040.20	10	53.11	0.41
Indirect Available Phosphate, Automated	960.02	040.40	2	53.30	0.02
Indirect Available Phosphate, Other		040.99	1	52.82	0.00
Method Group 040.XX PCT			13	53.21	0.46
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	2	53.41	0.09
Direct Available Phosphate, Spectrometric	960.03D	041.20	2	52.29	0.17
Direct Available Phosphate, Automated	978.01	041.40	1	51.57	0.00
Direct Available Phosphate, ICP		041.50	2	52.11	0.34
Direct Available Phosphate, EDTA Extract	993.01	041.60	2	53.16	0.21
Method Group 041.XX PCT			9	52.56	1.11
WATER SOLUBLE PHOSPHATE					
Water Soluble Phosphate, Spectrometric	970.01	048.20	11	48.16	0.24
Water Soluble Phosphate, Other		048.99	5	46.51	2.10
Method Group 048.XX PCT			16	48.16	0.68
SOLUBLE POTASH AS K₂O					
Soluble Potash, ICP(Oxalate)		050.50	3	0.17	0.00
Soluble Potash, Other		050.99	5	0.18	0.01
Method Group 050.XX PCT			8	0.18	0.01
FREE WATER					
Free Water, Vacuum Oven	965.08B	060.00	15	0.83	0.10
Method Group 060.XX PCT			15	0.83	0.12
ACID SOLUBLE CALCIUM AS CaO					
Acid Soluble Calcium, Atomic Absorption	945.04	101.00	1	0.21	0.00
Acid Soluble Calcium, ICP		101.30	12	0.38	0.02
Acid Soluble Calcium, Other		101.99	1	0.21	0.00
Method Group 101.XX PCT			14	0.38	0.03
ACID SOLUBLE MAGNESIUM AS MgO					
Acid Soluble Magnesium, Atomic Absorption	984.01	121.00	1	0.64	0.00
Acid Soluble Magnesium, ICP		121.30	12	0.92	0.01
Acid Soluble Magnesium, Other		121.99	1	0.69	0.00
Method Group 121.XX PCT			14	0.92	0.04
SULFATE SULFUR (S)					
Sulfur, Gravimetric	980.02(a)	144.01	1	1.41	0.00
Sulfur, Other		144.99	12	1.46	0.02
Method Group 144.XX PCT			13	1.46	0.03

TOTAL ARSENIC					
Total Arsenic, ICP	980.02(b)	151.02	4	13.6	4.0
Total Arsenic, Other		151.99	4	11.1	1.3
Method Group 151.XX PPM			8	11.5	3.2
ACID SOLUBLE BORON					
Acid Soluble Boron, Other		165.99	1	35	0.0
Method Group 165.XX PPM			1	35	0.0
TOTAL CADMIUM					
Total Cadmium, Atomic Absorbtion		181.00	1	5	0.0
Total Cadmium, ICP		181.30	5	3.6	0.5
Total Cadmium, Other		181.99	1	4.4	0.0
Method Group 181.XX PPM			7	4.1	0.7
ALUMINUM AS Al₂O₃					
ICP, %			11	1.96	0.07
Water Soluble Chlorine, Other, %		190.99	1	1.95	0.00
Method Group 190.XX PCT			12	1.95	0.08
TOTAL CHROMIUM					
Total Chromium, Atomic Absorbtion		191.00	1	83	0.0
Total Chromium, ICP		191.30	5	94	2.8
Total Chromium, Other		191.99	1	97	0.0
Method Group 191.XX PPM			7	94	4.6
ACID SOLUBLE COBALT					
Acid Soluble Cobalt, ICP		202.30	5	4	2.0
Acid Soluble Cobalt, Other		202.99	1	3	0.0
Method Group 202.XX PPM			6	4	2.1
ACID SOLUBLE COPPER					
Acid Soluble Copper, Other		221.99	1	0.9	0.0
Method Group 221.XX PPM			3	7.1	5.3
ACID SOLUBLE IRON AS Fe₂O₃					
Acid Soluble Iron, ICP		241.30	12	1.23	0.02
Acid Soluble Iron, Other		241.99	1	1.13	0.00
Method Group 241.XX PCT			14	1.23	0.03
TOTAL LEAD					
Total Lead, Atomic Absorbtion		251.00	1	6	0.0
Total Lead, ICP		251.30	2	14	3.7
Total Lead, Other		251.99	1	0.8	0.0
Method Group 251.XX PPM			4	8	6.4
ACID SOLUBLE MANGANESE					
Acid Soluble Manganese, ICP	972.02a	261.30	1	471	0.0
Acid Soluble Manganese, Other		261.99	7	487	10.0
Method Group 261.XX PPM			8	487	12.7
TOTAL MOLYBDENUM					
Total Molybdenum, ICP		289.30	5	24	0.7
Total Molybdenum, Other		289.99	1	23	0.0
Method Group 289.XX PPM			6	23	0.9
TOTAL NICKEL					
Total Nickel, ICP		291.30	5	14.2	0.4
Total Nickel, icp		291.99	1	14.8	0.0
Method Group 291.XX PPM			6	14.4	0.6
TOTAL SELENIUM					
Total Selenium, ICP		301.30	2	1.3	0.2
Total Selenium, Other		301.99	1	1	0.0
Method Group 301.XX PPM			3	1.4	0.3
SODIUM AS Na₂O					
Sodium, Other		311.99	7	0.22	0.01
Method Group 311.XX PCT			7	0.22	0.01
ACID SOLUBLE ZINC					
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	1	302.4	0.0
Acid Soluble Zinc, ICP		321.30	6	322.4	8.8
Acid Soluble Zinc, Other		321.99	1	297.7	0.0
Method Group 321.XX %			8	316.6	20.6
FLUORIDE					

Volumetric	325.10	9	1.61	0.04
Distilled/Electrode	325.99	4	1.61	0.03
Method Group 325.XX PCT		13	1.61	0.05

001.10 Ammoniacal Nitrogen		
Lab		MgO distillation
113	11.16	0.000
Median	11.16	0.000

001.99 Ammoniacal Nitrogen		
Lab		Other
24	11.23	-0.754
32	11.23	-0.754
61	11.22	-0.670
24	11.20	-0.335
61	11.18	0.000
140	11.18	0.000
Median	11.18	0.000
34	11.18	0.084
32	11.17	0.167
Std Dev	11.12	1.000
23	11.09	1.508
23	11.02	2.680
38	10.76	7.069

001.XX Ammoniacal Nitrogen		
Lab		Total Method
24	11.23	-0.961
32	11.23	-0.961
61	11.22	-0.860
24	11.20	-0.455
61	11.18	-0.051
140	11.18	-0.051
Median	11.18	0.000
34	11.18	0.051
32	11.17	0.152
113	11.16	0.455
Std Dev	11.13	1.000
23	11.09	1.770
23	11.02	3.186
38	10.76	8.485

010.11 Total Nitrogen		
Lab		Modified Comprehensive
113	11.27	-1.340
Std Dev	11.26	-1.000
Median	11.23	0.000
Std Dev	11.20	1.000

219 11.19 1.340

010.60 Total Nitrogen		
Lab		Combustion
39	18.04	-38.238
103	11.58	-1.978
31	11.55	-1.810
49	11.44	-1.165
Std Dev	11.41	-1.000
47	11.31	-0.463
9	11.28	-0.267
24	11.24	-0.070
Median	11.23	0.000
79	11.22	0.070
9	11.19	0.239
24	11.17	0.351
66	11.17	0.351
77	11.14	0.519
99	11.10	0.744
Std Dev	11.05	1.000
63	10.67	3.129

010.99 Total Nitrogen		
Lab		Other
32	11.23	-1.340
Std Dev	11.22	-1.000
Median	11.20	0.000
Std Dev	11.18	1.000
32	11.17	1.340

010.XX Total Nitrogen		
Lab		Total Method
39	18.04	-67.700
103	11.58	-3.573
31	11.55	-3.276
49	11.44	-2.134
Std Dev	11.32	-1.000
47	11.31	-0.893
9	11.28	-0.546
113	11.27	-0.496
24	11.24	-0.199
32	11.23	-0.050
Median	11.22	0.000
79	11.22	0.050

9	11.19	0.347
219	11.19	0.347
32	11.17	0.496
24	11.17	0.546
66	11.17	0.546
77	11.14	0.844
Std Dev	11.12	1.000
99	11.10	1.241
63	10.67	5.459

020.10 Total Phosphate		
Lab		Gravimetric Quimociac
219	54.39	0.000
Median	54.39	0.000

020.20 Total Phosphate		
Lab		Spectrometric
61	54.51	-2.043
99	54.50	-2.030
61	54.29	-1.483
79	54.19	-1.210
Std Dev	54.10	-1.000
32	53.92	-0.520
140	53.86	-0.364
31	53.78	-0.143
32	53.72	0.000
Median	53.72	0.000
34	53.69	0.069
24	53.61	0.286
24	53.54	0.468
113	53.54	0.481
Std Dev	53.34	1.000
23	53.23	1.288
23	53.20	1.353
110	52.56	3.031

020.40 Total Phosphate		
Lab		Automated
9	53.91	-0.329
9	53.88	0.000
Median	53.88	0.000
Std Dev	53.77	1.000
219	53.63	2.351

020.XX Total Phosphate		
Lab		Total Method
61	54.51	-2.049
99	54.50	-2.035
219	54.39	-1.712
61	54.29	-1.445
79	54.19	-1.151
Std Dev	54.13	-1.000
32	53.92	-0.407
9	53.91	-0.379
9	53.88	-0.281
140	53.86	-0.239
31	53.78	0.000
Median	53.78	0.000
32	53.72	0.154
34	53.69	0.229
219	53.63	0.421
24	53.61	0.463
24	53.54	0.659
113	53.54	0.674
Std Dev	53.42	1.000
23	53.23	1.543
23	53.20	1.614
110	52.56	3.424

030.20 Insoluble Phosphate		
Lab		Spectrometric
61	0.89	-1.282
61	0.88	-1.204
Std Dev	0.85	-1.000
23	0.80	-0.583
24	0.75	-0.194
23	0.73	0.000
Median	0.73	0.000
140	0.65	0.583
79	0.63	0.757
24	0.62	0.816
Std Dev	0.60	1.000
113	0.54	1.476

030.30 Insoluble Phosphate		
Lab		Alka. Quimociac
31	0.45	0.000
Median	0.45	0.000

030.40 Insoluble Phosphate		
Lab	Automated	
34	0.87	-2.008
Std Dev	0.75	-1.000
9	0.63	0.000
Median	0.63	0.000
9	0.55	0.672

030.99 Insoluble Phosphate		
Lab	Other	
32	0.44	-1.340
Std Dev	0.44	-1.000
Median	0.44	0.000
Std Dev	0.44	1.000
32	0.44	1.340

030.XX Insoluble Phosphate		
Lab	Total Method	
61	0.89	-1.498
61	0.88	-1.441
34	0.87	-1.377
Std Dev	0.80	-1.000
23	0.80	-0.980
24	0.75	-0.692
23	0.73	-0.548
140	0.65	-0.115
9	0.63	0.000
Median	0.63	0.000
79	0.63	0.014
24	0.62	0.058
9	0.55	0.461
113	0.54	0.548
Std Dev	0.46	1.000
31	0.45	1.066
32	0.44	1.095
32	0.44	1.124

040.20 Indirect Available Phosphate		
Lab	Spectrometric	
61	53.63	-1.281
79	53.56	-1.109
Std Dev	53.51	-1.000
61	53.40	-0.727

31	53.34	-0.567
140	53.21	-0.259
Median	53.11	0.000
113	53.00	0.259
24	52.99	0.283
24	52.79	0.776
Std Dev	52.70	1.000
23	52.48	1.553
23	52.43	1.676

040.40 Indirect Available Phosphate		
Lab	Automated	
9	53.32	-1.340
Std Dev	53.32	-1.000
Median	53.30	0.000
Std Dev	53.29	1.000
9	53.28	1.340

040.99 Indirect Available Phosphate		
Lab	Other	
34	52.82	0.000
Median	52.82	0.000

040.XX Indirect Available Phosphate		
Lab	Total Method	
61	53.63	-1.089
Std Dev	53.59	-1.000
79	53.56	-0.906
61	53.40	-0.499
31	53.34	-0.328
9	53.32	-0.295
9	53.28	-0.184
140	53.21	0.000
Median	53.21	0.000
113	53.00	0.551
24	52.99	0.577
Std Dev	52.83	1.000
34	52.82	1.012
24	52.79	1.102
23	52.48	1.929
23	52.43	2.061

041.10 Direct Available Phosphate		
Lab	Gravimetric Quimociac	

47	53.53	-1.340
Std Dev	53.50	-1.000
Median	53.41	0.000
Std Dev	53.32	1.000
219	53.29	1.340

041.20 Direct Available Phosphate		
Lab	Spectrometric	
47	52.52	-1.340
Std Dev	52.46	-1.000
Median	52.29	0.000
Std Dev	52.12	1.000
38	52.07	1.340

041.40 Direct Available Phosphate		
Lab	Automated	
49	51.57	0.000
Median	51.57	0.000

041.50 Direct Available Phosphate		
Lab	ICP	
63	52.56	-1.340
Std Dev	52.44	-1.000
Median	52.11	0.000
Std Dev	51.77	1.000
66	51.65	1.340

041.60 Direct Available Phosphate		
Lab	EDTA Extract	
219	53.44	-1.340
Std Dev	53.37	-1.000
Median	53.16	0.000
Std Dev	52.95	1.000
77	52.88	1.340

041.XX Direct Available Phosphate		
Lab	Total Method	
47	53.53	-1.064
Std Dev	53.47	-1.000
219	53.44	-0.965
219	53.29	-0.800
77	52.88	-0.351
63	52.56	0.000
Median	52.56	0.000

47	52.52	0.049
38	52.07	0.540
66	51.65	0.998
Std Dev	51.65	1.000
49	51.57	1.091

048.20 Water Soluble Phosphate		
Lab	Spectrometric	
61	49.75	-6.581
61	49.35	-4.925
9	48.51	-1.459
Std Dev	48.40	-1.000
31	48.34	-0.745
24	48.32	-0.642
113	48.16	0.000
Median	48.16	0.000
24	48.15	0.041
79	48.12	0.166
140	48.09	0.310
Std Dev	47.92	1.000
23	47.65	2.132
23	47.60	2.318

048.99 Water Soluble Phosphate		
Lab	Other	
9	48.62	-1.006
Std Dev	48.60	-1.000
34	48.20	-0.806
39	46.51	0.000
Median	46.51	0.000
32	45.39	0.534
32	45.27	0.591

048.XX Water Soluble Phosphate		
Lab	Total Method	
61	49.75	-2.852
61	49.35	-2.137
Std Dev	48.71	-1.000
9	48.62	-0.823
9	48.51	-0.639
31	48.34	-0.331
24	48.32	-0.286
34	48.20	-0.073
113	48.16	-0.009

Median	48.16	0.000
24	48.15	0.009
79	48.12	0.063
140	48.09	0.125
23	47.65	0.912
23	47.60	0.992
Std Dev	47.60	1.000
39	46.51	2.950
32	45.39	4.953
32	45.27	5.168

050.50	%K ₂ O	Soluble Potash
Lab		ICP(Oxalate)
99	0.18	-2.680
Std Dev	0.17	-1.000
23	0.17	0.000
23	0.17	0.000
Median	0.17	0.000

050.99	%K ₂ O	Soluble Potash
Lab		Other
24	0.19	-0.893
61	0.19	-0.893
61	0.18	0.000
Median	0.18	0.000
31	0.18	0.447
Std Dev	0.17	1.000
24	0.15	3.127

050.XX	%K ₂ O	Soluble Potash
Lab		Total Method
24	0.19	-1.340
61	0.19	-1.340
Std Dev	0.19	-1.000
61	0.18	-0.268
99	0.18	-0.268
Median	0.18	0.000
31	0.18	0.268
23	0.17	0.804
23	0.17	0.804
Std Dev	0.17	1.000
24	0.15	3.484

060.00		Free Water
Lab		Vacuum Oven
24	0.98	-1.456
24	0.96	-1.307
Std Dev	0.93	-1.000
32	0.90	-0.711
9	0.89	-0.562
9	0.87	-0.414
31	0.87	-0.414
79	0.87	-0.389
34	0.83	0.000
Median	0.83	0.000
23	0.83	0.033
140	0.79	0.380
23	0.78	0.529
Std Dev	0.73	1.000
32	0.71	1.175
61	0.67	1.572
113	0.65	1.820
61	0.64	1.869

060.XX		Free Water
Lab		Total Method
24	0.98	-1.456
24	0.96	-1.307
Std Dev	0.93	-1.000
32	0.90	-0.711
9	0.89	-0.562
9	0.87	-0.414
31	0.87	-0.414
79	0.87	-0.389
34	0.83	0.000
Median	0.83	0.000
23	0.83	0.033
140	0.79	0.380
23	0.78	0.529
Std Dev	0.73	1.000
32	0.71	1.175
61	0.67	1.572
113	0.65	1.820
61	0.64	1.869

101.00		Acid Soluble Calcium
Lab	%CaO	Atomic Absorption

219	0.21	0.000
Median	0.21	0.000

101.30		Acid Soluble Calcium
Lab	%CaO	ICP
61	0.47	-3.763
61	0.43	-2.167
Std Dev	0.40	-1.000
32	0.40	-0.798
24	0.39	-0.114
24	0.39	-0.114
32	0.39	-0.114
Median	0.38	0.000
34	0.38	0.114
23	0.37	0.570
Std Dev	0.36	1.000
23	0.36	1.026
9	0.36	1.140
31	0.35	1.414
9	0.35	1.483

101.99		Acid Soluble Calcium
Lab	%CaO	Other
219	0.21	0.000
Median	0.21	0.000

101.XX		Acid Soluble Calcium
Lab	%CaO	Total Method
61	0.47	-3.769
61	0.43	-2.303
32	0.40	-1.047
Std Dev	0.40	-1.000
24	0.39	-0.419
24	0.39	-0.419
32	0.39	-0.419
34	0.38	-0.209
Median	0.38	0.000
23	0.37	0.209
23	0.36	0.628
9	0.36	0.733
31	0.35	0.984
Std Dev	0.35	1.000
9	0.35	1.047
219	0.21	6.867

219	0.21	6.993
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121.00		Acid Soluble Magnesium
Lab	%MgO	Atomic Absorption
219	0.64	0.000
Median	0.64	0.000

121.30		Acid Soluble Magnesium
Lab	%MgO	ICP
24	0.95	-2.010
34	0.94	-1.173
Std Dev	0.93	-1.000
23	0.93	-0.670
61	0.93	-0.670
61	0.93	-0.670
9	0.92	0.000
23	0.92	0.000
Median	0.92	0.000
32	0.92	0.000
9	0.91	0.670
24	0.91	0.670
Std Dev	0.91	1.000
32	0.89	2.345
31	0.85	4.690

121.99		Acid Soluble Magnesium
Lab	%MgO	Other
219	0.69	0.000
Median	0.69	0.000

121.XX		Acid Soluble Magnesium
Lab	%MgO	Total Method
24	0.95	-1.037
Std Dev	0.95	-1.000
34	0.94	-0.605
23	0.93	-0.346
61	0.93	-0.346
61	0.93	-0.346
9	0.92	0.000
23	0.92	0.000
32	0.92	0.000
Median	0.92	0.000
9	0.91	0.346
24	0.91	0.346

Std Dev	0.89	1.000
32	0.89	1.210
31	0.85	2.421
219	0.69	8.005
219	0.64	9.579

144..01	Sulfate Sulfur (S)	
Lab	Gravimetric	
79	1.41	0.000
Median	1.41	0.000

144.99	Sulfate Sulfur (S)	
Lab	Other	
32	1.59	-6.631
32	1.53	-3.333
24	1.49	-1.134
Std Dev	1.48	-1.000
9	1.47	-0.447
9	1.47	-0.309
23	1.47	-0.034
Median	1.46	0.000
34	1.46	0.034
23	1.46	0.241
61	1.46	0.515
Std Dev	1.45	1.000
24	1.44	1.340
61	1.41	3.264
31	1.36	6.013

144.XX	Sulfate Sulfur (S)	
Lab	Total Method	
32	1.59	-4.999
32	1.53	-2.525
Std Dev	1.49	-1.000
24	1.49	-0.876
9	1.47	-0.361
9	1.47	-0.258
23	1.47	-0.052
34	1.46	0.000
Median	1.46	0.000
23	1.46	0.155
61	1.46	0.361
24	1.44	0.979
Std Dev	1.44	1.000

79	1.41	2.216
61	1.41	2.422
31	1.36	4.484

151.30	Total Arsenic	
Lab	ICP	
61	15.80	-0.561
61	15.75	-0.549
Median	13.58	0.000
24	11.40	0.549
Std Dev	9.61	1.000
31	7.60	1.507

151.99	Total Arsenic	
Lab	Other	
113	13.20	-1.587
Std Dev	12.43	-1.000
140	11.67	-0.425
Median	11.11	0.000
18	10.55	0.425
Std Dev	9.79	1.000
18	9.50	1.222

151.XX	Total Arsenic	
Lab	Total Method	
61	15.80	-1.610
61	15.75	-1.591
Std Dev	14.18	-1.000
113	13.20	-0.628
140	11.67	-0.051
Median	11.54	0.000
24	11.40	0.051
18	10.55	0.372
18	9.50	0.768
Std Dev	8.89	1.000
31	7.60	1.485

165.99	Acid Soluble Boron	
Lab	PPM	Other
24	35.30	0.000
Median	35.30	0.000

165.XX, ppm	Acid Soluble Boron	
Lab	PPM	Total Method

24	35.30	0.000
Median	35.30	0.000

181.00	Total Cadmium	
Lab	Atomic Absorbion	
113	4.50	0.000
Median	4.50	0.000

181.30	Total Cadmium	
Lab	PPM	ICP
18	4.10	-0.957
18	4.10	-0.957
61	3.60	0.000
Median	3.60	0.000
61	3.40	0.383
Std Dev	3.08	1.000
31	2.65	1.819

181.99	Total Cadmium	
Lab	Other	
24	4.36	0.000
Median	4.36	0.000

181.XX	Total Cadmium	
Lab	PPM	Total Method
113	4.50	-0.734
24	4.36	-0.477
18	4.10	0.000
18	4.10	0.000
Median	4.10	0.000
61	3.60	0.918
Std Dev	3.56	1.000
61	3.40	1.285
31	2.65	2.662

190.00	Aluminum	
Lab	%Al ₂ O ₃	ICP
9	2.04	-1.106
9	2.04	-1.072
32	2.03	-1.005
Std Dev	2.03	-1.000
24	1.98	-0.335
34	1.96	-0.067
24	1.96	0.000

Median	1.96	0.000
23	1.92	0.536
23	1.91	0.670
61	1.91	0.670
61	1.90	0.804
Std Dev	1.88	1.000
32	1.85	1.407

190.99	Aluminum	
Lab	%Al ₂ O ₃	Atomic Absorption
31	1.95	0.000
Median	1.95	0.000

190.XX	Aluminum	
Lab	%Al ₂ O ₃	Total Method
9	2.04	-1.340
9	2.04	-1.302
32	2.03	-1.225
Std Dev	2.02	-1.000
24	1.98	-0.459
34	1.96	-0.153
24	1.96	-0.077
Median	1.95	0.000
31	1.95	0.077
23	1.92	0.536
23	1.91	0.689
61	1.91	0.689
61	1.90	0.842
Std Dev	1.88	1.000
32	1.85	1.531

191.00	Total Chromium	
Lab	Atomic Absorbion	
113	83.00	0.000
Median	83.00	0.000

191.30	Total Chromium	
Lab	ICP	
61	102.00	-2.861
Std Dev	96.86	-1.000
18	95.35	-0.453
18	94.10	0.000
Median	94.10	0.000
31	91.65	0.887

Std Dev	91.34	1.000
61	90.50	1.304

191.99	Total Chromium	
Lab	PPM	Other
24	96.90	0.000
Median	96.90	0.000

191.XX	Total Chromium	
Lab	PPM	Total Method
61	102.00	-2.096
Std Dev	97.87	-1.000
24	96.90	-0.743
18	95.35	-0.332
18	94.10	0.000
Median	94.10	0.000
31	91.65	0.650
61	90.50	0.955
Std Dev	90.33	1.000
113	83.00	2.945

202.30	Acid Soluble Cobalt	
Lab	PPM	ICP
18		

202.99	Acid Soluble Cobalt	
Lab	PPM	Other
24	2.99	0.000
Median	2.99	0.000

202.XX	Acid Soluble Cobalt	
Lab	PPM	Total Method
18	6.30	-1.609
18	6.00	-1.436
Std Dev	5.24	-1.000
61	3.65	-0.086
Median	3.50	0.000
61	3.35	0.086
24	2.99	0.293
31	2.08	0.819

221.00	Acid Soluble Copper	
Lab	PPM	Atomic Absorption
219	1.25	0.000
Median	1.25	0.000

221.30	Acid Soluble Copper	
Lab	PPM	ICP
18	12.90	-1.340
Std Dev	12.16	-1.000
Median	10.00	0.000
Std Dev	7.84	1.000
18	7.10	1.340

221.99	Acid Soluble Copper	
Lab	PPM	Other
24	1.20	0.000
Median	1.20	0.000

221.XX	Acid Soluble Copper	
Lab	PPM	Total Method
18	12.90	-1.329
Std Dev	11.47	-1.000
18	7.10	0.000
Median	7.10	0.000
Std Dev	2.73	1.000
24	1.20	1.351

241.30	Acid Soluble Iron	
Lab	%Fe ₂ O ₃	ICP
24	1.27	-1.827
Std Dev	1.25	-1.000
24	1.25	-0.609
34	1.25	-0.609
32	1.24	-0.365
61	1.24	-0.365
23	1.24	-0.122
Median	1.23	0.000
61	1.23	0.122
9	1.23	0.244
9	1.22	0.853
Std Dev	1.21	1.000
23	1.21	1.096
32	1.21	1.096
31	1.15	4.264

241.99	Acid Soluble Iron	
Lab	%Fe ₂ O ₃	Other
219	1.13	0.000

Median	1.13	0.000
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241.XX	Acid Soluble Iron	
Lab	%Fe ₂ O ₃	Total Method
24	1.27	-1.546
Std Dev	1.26	-1.000
219	1.25	-0.763
24	1.25	-0.515
34	1.25	-0.515
32	1.24	-0.309
61	1.24	-0.309
23	1.24	-0.103
Median	1.23	0.000
61	1.23	0.103
9	1.23	0.206
9	1.22	0.722
23	1.21	0.928
32	1.21	0.928
Std Dev	1.21	1.000
31	1.15	3.608
219	1.13	4.061

251.00	Total Lead	
Lab	PPM	Atomic Absorption
113	6.00	0.000
Median	6.00	0.000

251.30	Total Lead	
Lab	PPM	ICP
61	<1.8	0.000
61	<1.8	0.000
18	19.20	-1.340
Std Dev	17.94	-1.000
Median	14.25	0.000
18	9.30	1.340

251.99	Total Lead	
Lab	PPM	Other
24	0.81	0.000
Median	0.81	0.000

251.XX	Total Lead	
Lab	PPM	Total Method
61	<1.8	0.000

61	<1.8	0.000
18	19.20	-2.188
Std Dev	12.93	-1.000
18	9.30	-0.313
Median	7.65	0.000
113	6.00	0.313
24	0.81	1.296

261.30	Acid Soluble Manganese	
Lab	PPM	ICP
31	471.00	0.000
Median	471.00	0.000

261.99	Acid Soluble Manganese	
Lab	PPM	Other
61	527.50	-4.070
24	503.00	-1.620
Std Dev	496.80	-1.000
61	490.00	-0.320
18	486.80	0.000
Median	486.80	0.000
18	486.20	0.060
219	480.00	0.680
219	477.30	0.950

261.XX	Acid Soluble Manganese	
Lab	PPM	Total Method
61	527.50	-3.945
24	503.00	-1.588
Std Dev	496.89	-1.000
61	490.00	-0.337
18	486.80	-0.029
Median	486.50	0.000
18	486.20	0.029
219	480.00	0.625
219	477.30	0.885
Std Dev	476.11	1.000
31	471.00	1.492

281.30	Total Mercury	
Lab	PPM	ICP
24	<.001	0.000
Median	0.00	0.000

281.XX Total Mercury		
Lab	PPM	Total Method
24	<.001	0.000
Median	0.00	0.000

289.30 Total Molybdenum		
Lab	PPM	ICP
18		

289.99 Total Molybdenum		
Lab	PPM	Other
24	22.90	0.000
Median	22.90	0.000

289.XX Total Molybdenum		
Lab	PPM	Total Method
18	24.95	-2.026
18	24.20	-1.046
Std Dev	24.16	-1.000
61	23.50	-0.131
Median	23.40	0.000
31	23.30	0.131
24	22.90	0.654
Std Dev	22.64	1.000
61	20.50	3.791

291.30 Total Nickel		
Lab		ICP
61		

291.99 Total Nickel		
Lab	PPM	Other
24	14.80	0.000
Median	14.80	0.000

291.XX Total Nickel		
Lab	PPM	Total Method
61	15.00	-1.218
Std Dev	14.89	-1.000
24	14.80	-0.828
18	14.55	-0.341
Median	14.38	0.000
18	14.20	0.341
61	14.00	0.731
Std Dev	13.86	1.000
31	8.60	11.256

301.30 Total Selenium		
Lab	PPM	ICP
24	<.0003	0.000
18	1.62	-1.340
Std Dev	1.55	-1.000
Median	1.34	0.000
Std Dev	1.12	1.000
18	1.05	1.340

301.99 Total Selenium		
Lab	PPM	Other
140	1.42	0.000
Median	1.42	0.000

301.XX Total Selenium		
Lab	PPM	Total Mthod
24	<.0003	0.000
18	1.62	-0.964
140	1.42	0.000
Median	1.42	0.000
Std Dev	1.20	1.000
18	1.05	1.716

311.99 Sodium		
Lab	%Na ₂ O	Other
24	0.24	-2.010
23	0.23	-1.340
24	0.23	-1.340
Std Dev	0.23	-1.000
23	0.22	0.000
61	0.22	0.000
61	0.22	0.000
Median	0.22	0.000
Std Dev	0.21	1.000
31	0.21	2.010

311.XX Sodium		
Lab	%Na ₂ O	Total Method
24	0.24	-2.010
23	0.23	-1.340
24	0.23	-1.340
Std Dev	0.23	-1.000
23	0.22	0.000

61	0.22	0.000
61	0.22	0.000
Median	0.22	0.000
Std Dev	0.21	1.000
31	0.21	2.010

321.00 Acid Soluble Zinc		
Lab		Atomic Absorption
219	302.40	0.000
Median	302.40	0.000

321.30 Acid Soluble Zinc		
Lab	PPM	ICP
31	334.15	-1.337
Std Dev	331.18	-1.000
61	327.00	-0.525
24	324.00	-0.185
Median	322.38	0.000
18	320.75	0.185
Std Dev	313.57	1.000
18	312.35	1.138
61	301.00	2.427

321.99 Acid Soluble Zinc		
Lab		Other
219	297.65	0.000
Median	297.65	0.000

321.XX Acid Soluble Zinc		
Lab	PPM	Total Method
31	334.15	-1.039
Std Dev	333.49	-1.000
61	327.00	-0.617
24	324.00	-0.440
18	320.75	-0.248
Median	316.55	0.000
18	312.35	0.248
219	302.40	0.835
61	301.00	0.918
Std Dev	299.61	1.000
219	297.65	1.116

325.10 Fluoride		
Lab	%	Electrode

32	1.72	-2.457
32	1.70	-2.010
24	1.63	-0.447
79	1.62	-0.223
23	1.61	0.000
Median	1.61	0.000
34	1.58	0.707
24	1.57	0.893
31	1.55	1.340
23	1.55	1.452

325.99 Fluoride		
Lab	%	Other
61	1.76	-4.467
9	1.61	0.000
61	1.61	0.000
Median	1.61	0.000
9	1.58	0.893

325.XX Fluoride		
Lab	%	Total Method
61	1.76	-3.655
32	1.72	-2.802
32	1.70	-2.315
24	1.63	-0.609
79	1.62	-0.365
23	1.61	-0.122
9	1.61	0.000
61	1.61	0.000
Median	1.61	0.000
34	1.58	0.650
9	1.58	0.731
24	1.57	0.853
31	1.55	1.340
23	1.55	1.462