

AFPC

Sample

2012-11

Grade

18-46-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, Other		001.99	10	18.50	0.11
Method Group 001.XX PCT			10	18.50	0.13
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	3	18.45	0.02
Total Nitrogen, Salicylic	955.04d	010.12	1	18.44	0.00
Total Nitrogen, Combustion	993.13	010.60	23	18.55	0.15
Total Nitrogen, Other		010.99	7	18.52	0.06
Method Group 010.XX PCT			34	18.53	0.15
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	2	47.36	0.19
Total Phosphate, Spectrometric	978.02	020.20	20	47.51	0.30
Total Phosphate, ICP	970.03	020.40	2	47.32	0.36
Total Phosphate, Other	993.13	020.99	1	47.93	0.00
Method Group 020.XX PCT			25	47.56	0.39
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	12	0.04	0.02
Insoluble Phosphate, Automated	978.01	030.40	2	0.04	0.00
Insoluble Phosphate, Other		030.99	2	0.10	0.01
Method Group 030.XX PCT			16	0.04	0.02
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Spectrometric	960.02	040.20	12	47.44	0.23
Indirect Available Phosphate, Other		040.99	2	47.85	0.07
Method Group 040.XX PCT			14	47.54	0.39
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	3	47.47	0.15
Direct Available Phosphate, Automated	978.01	041.40	2	47.10	0.66
Direct Available Phosphate, ICP		041.50	5	46.74	0.22

Direct Available Phosphate, EDTA Extract	993.01	041.60	5	47.51	0.05
Direct Available Phosphate, Other		041.99	1	46.47	0.00
Method Group 041.XX PCT			16	47.25	0.77
WATER SOLUBLE PHOSPHATE					
Water Soluble Phosphate, Spectrometric	970.01	048.20	13	44.70	0.25
Water Soluble Phosphate, Other		048.99	4	44.72	0.65
Method Group 048.XX PCT			17	44.70	0.31
SOLUBLE POTASH AS K₂O					
Soluble Potash, ICP(Oxalate)		050.50	2	0.17	0.00
Soluble Potash, ICP(Citrate)		050.51	1	0.19	0.00
Soluble Potash, Other		050.99	8	0.17	0.27
Method Group 050.XX PCT			11	0.17	0.03
FREE WATER					
Free Water, Vacuum Oven	965.08B	060.00	15	1.56	0.11
Free Water, Vacuum Desiccate	965.08A	060.10	2	2.15	0.01
Method Group 060.XX PCT			17	1.58	0.10
ACID SOLUBLE CALCIUM AS CaO					
Acid Soluble Calcium, Atomic Absorption	945.04	101.00	1	0.06	0.00
Acid Soluble Calcium, ICP		101.30	17	0.11	0.06
Method Group 101.XX PCT			18	0.11	0.06
ACID SOLUBLE MAGNESIUM AS MgO					
Acid Soluble Magnesium, Atomic Absorption	984.01	121.00	1	0.75	0.00
Acid Soluble Magnesium, ICP		121.30	17	0.95	0.06
Method Group 121.XX PCT			18	0.95	0.08
SULFATE SULFUR (S)					
Sulfur, Gravimetric	980.02(a)	144.01	3	2.03	0.12
Sulfur, Spectrometric		144.70	2	2.13	0.00
Sulfur, Other		144.99	10	2.19	0.11
Method Group 144.XX PCT			15	2.18	0.17
TOTAL SULFUR (S)					
Sulfur, Other		145.99	3	2.11	0.07
Method Group 145.XX PCT			3	2.11	0.08
TOTAL ARSENIC					

Total Arsenic, ICP	980.02(b)	151.02	7	14	1.3
Method Group 151.XX PPM			7	14	1.6
ACID SOLUBLE BORON					
Acid Soluble Boron, Other		165.99	2	66	0.2
Method Group 165.XX PPM			2	66	0.2
TOTAL CADMIUM					
Total Cadmium, ICP		181.30	7	26	0.7
Total Cadmium, Other		181.99	1	31	0.0
Method Group 181.XX PPM			8	26	1.8
ALUMINUM AS Al₂O₃					
ICP, %			16	0.82	0.02
Method Group 190.XX PCT			16	0.82	0.03
TOTAL CHROMIUM					
Total Chromium, ICP		191.30	7	247	4.5
Total Chromium, Other		191.99	1	255	0.0
Method Group 191.XX PPM			8	249	5.9
ACID SOLUBLE COBALT					
Acid Soluble Cobalt, ICP		202.30	5	2	0.1
Acid Soluble Cobalt, Other		202.99	1	2	0.0
Method Group 202.XX PPM			6	2	0.2
ACID SOLUBLE COPPER					
Acid Soluble Copper, Atomic Absorption	975.01	221.00	1	1	0.0
Acid Soluble Copper, ICP		221.30	3	4	0.5
Acid Soluble Copper, Other		221.99	1	0	0.0
Method Group 221.XX PPM			5	4	1.2
ACID SOLUBLE IRON AS Fe₂O₃					
Acid Soluble Iron, ICP		241.30	16	0.67	0.03
Method Group 241.XX PCT			17	0.67	0.04
TOTAL LEAD					
Total Lead, ICP		251.30	2	2	0.0
Method Group 251.XX PPM			2	2	0.0
ACID SOLUBLE MANGANESE					
Acid Soluble Manganese, Atomic Absorption	972.02b	261.11	1	114	0.0

Acid Soluble Manganese, ICP	972.02a	261.30	2	116	3.6
Acid Soluble Manganese, Other		261.99	5	116	9.0
Method Group 261.XX PPM			8	115	8.7
TOTAL MOLYBDENUM					
Total Molybdenum, ICP		289.30	5	4	1.3
Total Molybdenum, Other		289.99	1	4	0.0
Method Group 289.XX PPM			6	4	1.5
TOTAL NICKEL					
Total Nickel, ICP		291.30	6	36	0.4
Total Nickel, Other		291.99	1	37	0.0
Method Group 291.XX PPM			7	37	0.7
SODIUM AS Na₂O					
Sodium, Atomic Absorbtion	983.04	311.00	1	0.15	0.00
Sodium, Other		311.99	9	0.17	0.02
Method Group 311.XX PCT			10	0.16	0.03
ACID SOLUBLE ZINC					
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	1	290.0	0.0
Acid Soluble Zinc, ICP		321.30	6	311.6	14.8
Acid Soluble Zinc, Other		321.99	2	277.5	0.0
Method Group 321.XX %			9	296.5	21.5
FLUORIDE					
Volumetric		325.10	10	0.40	0.03
Distilled/Electrode		325.99	2	0.40	0.00
Method Group 325.XX PCT			12	0.40	0.02

001.99 Ammoniacal Nitrogen		
Lab		Other
24	18.66	-1.512
Std Dev	18.60	-1.000
32	18.58	-0.733
34	18.57	-0.687
24	18.50	-0.046
61	18.50	-0.046
Median	18.50	0.000
61	18.49	0.046
31	18.46	0.366
140	18.39	0.962
Std Dev	18.39	1.000
38	18.26	2.199
32	18.16	3.069

001.XX Ammoniacal Nitrogen		
Lab		Total Method
24	18.66	-1.512
Std Dev	18.60	-1.000
32	18.58	-0.733
34	18.57	-0.687
24	18.50	-0.046
61	18.50	-0.046
Median	18.50	0.000
61	18.49	0.046
31	18.46	0.366
140	18.39	0.962
Std Dev	18.39	1.000
38	18.26	2.199
32	18.16	3.069

010.11 Total Nitrogen		
Lab		Modified Comprehensive
219	18.50	-2.436
Std Dev	18.47	-1.000
43	18.45	0.000
Median	18.45	0.000
43	18.45	0.244

010.12 Total Nitrogen		
Lab		Salicylic
107	18.44	0.000
Median	18.44	0.000

010.60 Total Nitrogen		
Lab		Combustion
24	18.81	-1.712
47	18.80	-1.613
14	18.73	-1.185
14	18.72	-1.086
Std Dev	18.70	-1.000
24	18.70	-0.988
29	18.66	-0.737
63	18.62	-0.461
63	18.62	-0.461
64	18.59	-0.230
219	18.59	-0.230
49	18.56	-0.033
9	18.55	0.000
Median	18.55	0.000
79	18.54	0.066
31	18.54	0.099
77	18.53	0.132
39	18.51	0.263
66	18.48	0.494
35	18.40	0.988
Std Dev	18.40	1.000
102	18.29	1.745
38	18.28	1.811
110	18.27	1.844
137	18.21	2.272
80	18.05	3.292

010.99 Total Nitrogen		
Lab		Other
34	18.68	-2.680
Std Dev	18.58	-1.000
32	18.58	-0.921
23	18.55	-0.419
23	18.52	0.000
Median	18.52	0.000
99	18.48	0.670
140	18.48	0.670
Std Dev	18.46	1.000
32	18.16	6.030

010.XX Total Nitrogen		
Lab		Total Method
24	18.81	-2.254
47	18.80	-2.132
14	18.73	-1.604
14	18.72	-1.482
24	18.70	-1.360
34	18.68	-1.198
29	18.66	-1.052
Std Dev	18.66	-1.000
63	18.62	-0.711
63	18.62	-0.711
64	18.59	-0.426
219	18.59	-0.426
32	18.58	-0.345
49	18.56	-0.183
9	18.55	-0.142
23	18.55	-0.102
79	18.54	-0.061
31	18.54	-0.020
Median	18.53	0.000
77	18.53	0.020
23	18.52	0.102
39	18.51	0.183
219	18.50	0.264
99	18.48	0.426
140	18.48	0.426
66	18.48	0.467
43	18.45	0.670
43	18.45	0.711
107	18.44	0.792
Std Dev	18.41	1.000
35	18.40	1.076
102	18.29	2.010
38	18.28	2.091
110	18.27	2.132
137	18.21	2.660
32	18.16	3.025
80	18.05	3.918

020.10 Total Phosphate		
Lab		Gravimetric Quimociac
219	47.61	-1.340
Std Dev	47.55	-1.000

Median	47.36	0.000
Std Dev	47.16	1.000
35	47.10	1.340

020.20 Total Phosphate		
Lab		Spectrometric
32	48.03	-1.731
9	47.99	-1.613
Std Dev	47.81	-1.000
34	47.79	-0.941
24	47.77	-0.874
79	47.73	-0.739
24	47.70	-0.638
43	47.70	-0.638
31	47.61	-0.319
23	47.57	-0.202
23	47.56	-0.168
Median	47.51	0.000
32	47.46	0.168
43	47.40	0.386
61	47.40	0.386
14	47.34	0.571
14	47.31	0.672
140	47.31	0.689
61	47.30	0.723
Std Dev	47.21	1.000
102	47.10	1.378
110	46.60	3.058
103	46.36	3.865

020.40 Total Phosphate		
Lab		Automated
219	47.80	-1.340
Std Dev	47.68	-1.000
Median	47.32	0.000
Std Dev	46.96	1.000
137	46.84	1.340

020.99 Total Phosphate		
Lab		Other
99	47.93	0.000
Median	47.93	0.000

020.XX		
Lab	Total Phosphate	Total Method
32	48.03	-1.466
9	47.99	-1.356
99	47.93	-1.151
Std Dev	47.88	-1.000
219	47.80	-0.757
34	47.79	-0.725
24	47.77	-0.662
79	47.73	-0.536
24	47.70	-0.441
43	47.70	-0.441
219	47.61	-0.158
31	47.61	-0.142
23	47.57	-0.032
23	47.56	0.000
Median	47.56	0.000
32	47.46	0.315
43	47.40	0.520
61	47.40	0.520
14	47.34	0.694
14	47.31	0.788
140	47.31	0.804
61	47.30	0.836
Std Dev	47.24	1.000
35	47.10	1.450
102	47.10	1.450
137	46.84	2.286
110	46.60	3.027
103	46.36	3.784

030.20		
Lab	Insoluble Phosphate	Spectrometric
61	0.12	-4.586
61	0.10	-3.726
43	0.05	-1.003
Std Dev	0.05	-1.000
43	0.05	-0.688
14	0.05	-0.573
23	0.04	0.000
31	0.04	0.000
140	0.04	0.000
Median	0.04	0.000
14	0.03	0.573

23	0.03	0.573
Std Dev	0.02	1.000
24	0.01	1.433
24	0.01	1.433

030.40		
Lab	Insoluble Phosphate	Automated
9	0.05	-1.340
Std Dev	0.04	-1.000
Median	0.04	0.000
Std Dev	0.04	1.000
34	0.04	1.340

030.99		
Lab	Insoluble Phosphate	Other
32	0.12	-1.340
Std Dev	0.11	-1.000
Median	0.10	0.000
Std Dev	0.09	1.000
32	0.08	1.340

030.XX		
Lab	Insoluble Phosphate	Total Method
32	0.12	-3.864
61	0.12	-3.615
61	0.10	-2.867
32	0.08	-1.870
Std Dev	0.06	-1.000
43	0.05	-0.499
43	0.05	-0.224
9	0.05	-0.125
14	0.05	-0.125
Median	0.04	0.000
34	0.04	0.125
23	0.04	0.374
31	0.04	0.374
140	0.04	0.374
14	0.03	0.873
23	0.03	0.873
Std Dev	0.02	1.000
24	0.01	1.620
24	0.01	1.620

040.20		
Lab	Indirect Available Phosphate	Spectrometric
43	47.77	-1.461
24	47.74	-1.329
24	47.69	-1.109
Std Dev	47.67	-1.000
31	47.57	-0.582
23	47.54	-0.428
23	47.54	-0.428
Median	47.44	0.000
43	47.34	0.428
14	47.30	0.626
61	47.30	0.626
61	47.30	0.626
14	47.29	0.670
140	47.27	0.736

040.99		
Lab	Indirect Available Phosphate	Other
9	47.95	-1.340
Std Dev	47.92	-1.000
Median	47.85	0.000
Std Dev	47.78	1.000
34	47.76	1.340

040.XX		
Lab	Indirect Available Phosphate	Total Method
9	47.95	-1.270
Std Dev	47.86	-1.000
43	47.77	-0.728
34	47.76	-0.697
24	47.74	-0.635
24	47.69	-0.480
31	47.57	-0.108
23	47.54	0.000
23	47.54	0.000
Median	47.54	0.000
43	47.34	0.604
14	47.30	0.744
61	47.30	0.744
61	47.30	0.744
14	47.29	0.775
140	47.27	0.821

041.10		
Lab	Direct Available Phosphate	Gravimetric Quimociac
39	47.65	-1.221
Std Dev	47.61	-1.000
219	47.47	0.000
Median	47.47	0.000
Std Dev	47.32	1.000
47	47.25	1.459

041.40		
Lab	Direct Available Phosphate	Automated
39	47.99	-1.340
Std Dev	47.76	-1.000
Median	47.10	0.000
Std Dev	46.43	1.000
103	46.21	1.340

041.50		
Lab	Direct Available Phosphate	ICP
66	46.81	-0.300
63	46.76	-0.092
63	46.74	0.000
Median	46.74	0.000
Std Dev	46.52	1.000
47	46.47	1.248
80	46.20	2.495

041.60		
Lab	Direct Available Phosphate	EDTA Extract
77	47.65	-2.783
49	47.57	-1.134
Std Dev	47.56	-1.000
64	47.51	0.000
Median	47.51	0.000
219	47.50	0.206
Std Dev	47.46	1.000
29	47.25	5.401

041.99		
Lab	Direct Available Phosphate	Other
137	46.47	0.000
Median	46.47	0.000

041.XX Direct Available Phosphate		
Lab	Total Method	
39	47.99	-1.159
Std Dev	47.88	-1.000
39	47.65	-0.623
77	47.65	-0.623
49	47.57	-0.497
64	47.51	-0.411
219	47.50	-0.395
219	47.47	-0.340
47	47.25	-0.002
Median	47.25	0.000
29	47.25	0.002
66	46.81	0.699
63	46.76	0.770
63	46.74	0.801
Std Dev	46.61	1.000
47	46.47	1.226
137	46.47	1.226
103	46.21	1.643
80	46.20	1.651

048.20 Water Soluble Phosphate		
Lab	Spectrometric	
31	45.17	-1.833
24	45.13	-1.695
24	45.01	-1.222
Std Dev	44.95	-1.000
23	44.86	-0.631
79	44.76	-0.236
23	44.75	-0.177
43	44.70	0.000
Median	44.70	0.000
140	44.67	0.138
43	44.56	0.552
14	44.52	0.709
Std Dev	44.45	1.000
61	44.45	1.005
14	44.43	1.084
61	44.25	1.793

048.99 Water Soluble Phosphate		
Lab	Other	
9	45.75	-1.580

Std Dev	45.37	-1.000
32	44.80	-0.119
Median	44.72	0.000
34	44.64	0.119
Std Dev	44.07	1.000
32	42.73	3.065

048.XX Water Soluble Phosphate		
Lab	Total Method	
9	45.75	-4.119
31	45.17	-1.833
24	45.13	-1.695
24	45.01	-1.222
Std Dev	44.95	-1.000
23	44.86	-0.631
32	44.80	-0.374
79	44.76	-0.236
23	44.75	-0.177
43	44.70	0.000
Median	44.70	0.000
140	44.67	0.138
34	44.64	0.236
43	44.56	0.552
14	44.52	0.709
Std Dev	44.45	1.000
61	44.45	1.005
14	44.43	1.084
61	44.25	1.793
32	42.73	7.784

050.50 %K ₂ O Soluble Potash		
Lab	ICP(Oxalate)	
23	0.17	0.000
23	0.17	0.000
Median	0.17	0.000

050.51 %K ₂ O Soluble Potash		
Lab	ICP(Citrate)	
137	0.19	0.000
Median	0.19	0.000

050.99 Soluble Potash		
Lab	%K ₂ O	Other
43	1.53	-4.943

43	1.53	-4.930
Std Dev	0.45	-1.000
99	0.20	-0.080
102	0.19	-0.048
Median	0.17	0.000
24	0.16	0.048
24	0.16	0.048
61	0.16	0.048
61	0.16	0.048

050.XX Soluble Potash		
Lab	%K ₂ O	Total Method
43	1.53	-56.273
43	1.53	-56.124
99	0.20	-1.237
137	0.19	-1.031
Std Dev	0.19	-1.000
102	0.19	-0.870
23	0.17	0.000
23	0.17	0.000
Median	0.17	0.000
24	0.16	0.206
24	0.16	0.206
61	0.16	0.206
61	0.16	0.206

060.00 Free Water		
Lab	Vacuum Oven	
140	1.77	-1.928
Std Dev	1.67	-1.000
79	1.62	-0.564
23	1.60	-0.376
32	1.60	-0.376
9	1.59	-0.282
31	1.59	-0.235
43	1.58	-0.141
24	1.56	0.000
Median	1.56	0.000
32	1.55	0.094
43	1.54	0.235
23	1.50	0.611
Std Dev	1.45	1.000
24	1.41	1.411
34	1.38	1.693

14	1.37	1.787
14	1.37	1.834

060.10 Free Water		
Lab	Vacuum Desiccate	
61	2.16	-1.340
Std Dev	2.16	-1.000
Median	2.15	0.000
Std Dev	2.14	1.000
61	2.14	1.340

060.XX Free Water		
Lab	Total Method	
61	2.16	-7.466
61	2.14	-7.147
140	1.77	-2.425
Std Dev	1.65	-1.000
79	1.62	-0.574
23	1.60	-0.319
32	1.60	-0.319
9	1.59	-0.191
31	1.59	-0.128
43	1.58	0.000
Median	1.58	0.000
24	1.56	0.191
32	1.55	0.319
43	1.54	0.510
Std Dev	1.50	1.000
23	1.50	1.021
24	1.41	2.106
34	1.38	2.489
14	1.37	2.616
14	1.37	2.680

101.00 Acid Soluble Calcium		
Lab	%CaO	Atomic Absorption
219	0.06	0.000
Median	0.06	0.000

101.30 Acid Soluble Calcium		
Lab	%CaO	ICP
43	0.93	-13.766
43	0.93	-13.719
31	0.27	-2.596

61	0.18	-1.173
61	0.18	-1.173
Std Dev	0.17	-1.000
102	0.12	-0.187
23	0.12	-0.168
23	0.11	0.000
24	0.11	0.000
32	0.11	0.000
34	0.11	0.000
39	0.11	0.000
Median	0.11	0.000
14	0.10	0.168
14	0.10	0.168
32	0.10	0.251
24	0.09	0.335
9	0.08	0.503

101.XX Acid Soluble Calcium		
Lab	%CaO	Total Method
43	0.93	-16.868
43	0.93	-16.811
31	0.27	-3.181
61	0.18	-1.437
61	0.18	-1.437
Std Dev	0.16	-1.000
102	0.12	-0.229
23	0.12	-0.205
23	0.11	0.000
24	0.11	0.000
32	0.11	0.000
34	0.11	0.000
39	0.11	0.000
Median	0.11	0.000
14	0.10	0.205
14	0.10	0.205
32	0.10	0.308
24	0.09	0.410
9	0.08	0.616
219	0.06	0.934

121.00 Acid Soluble Magnesium		
Lab	%MgO	Atomic Absorption
219	0.75	0.000
Median	0.75	0.000

121.30 Acid Soluble Magnesium		
Lab	%MgO	ICP
102	1.04	-1.514
23	1.02	-1.089
Std Dev	1.01	-1.000
23	1.00	-0.754
24	0.99	-0.670
24	0.98	-0.503
34	0.98	-0.503
61	0.96	-0.084
61	0.96	-0.084
9	0.95	0.000
39	0.95	0.000
Median	0.95	0.000
32	0.93	0.335
32	0.91	0.670
14	0.90	0.837
31	0.90	0.921
Std Dev	0.89	1.000
14	0.89	1.089
43	0.89	1.089
43	0.88	1.173

121.XX Acid Soluble Magnesium		
Lab	%MgO	Total Method
102	1.04	-1.446
23	1.02	-1.040
Std Dev	1.01	-1.000
23	1.00	-0.720
24	0.99	-0.640
24	0.98	-0.480
34	0.98	-0.480
61	0.96	-0.080
61	0.96	-0.080
9	0.95	0.000
39	0.95	0.000
Median	0.95	0.000
32	0.93	0.320
32	0.91	0.640
14	0.90	0.800
31	0.90	0.880
Std Dev	0.89	1.000
14	0.89	1.040

43	0.89	1.040
43	0.88	1.120
219	0.75	3.216

144..01 Sulfate Sulfur (S)		
Lab	Gravimetric	
219	2.35	-2.680
Std Dev	2.15	-1.000
61	2.03	0.000
61	2.03	0.000
Median	2.03	0.000

144.70 Sulfur		
Lab	Spectrometric	
14	2.13	-1.340
Std Dev	2.13	-1.000
Median	2.13	0.000
Std Dev	2.13	1.000
14	2.13	1.340

144.99 Sulfate Sulfur (S)		
Lab	Other	
9	6.54	-37.869
Std Dev	2.30	-1.000
23	2.26	-0.567
38	2.23	-0.349
23	2.20	-0.044
24	2.19	0.000
34	2.19	0.000
Median	2.19	0.000
24	2.18	0.087
Std Dev	2.08	1.000
32	2.03	1.394
31	1.99	1.743
32	1.95	2.135

144.XX Sulfate Sulfur (S)		
Lab	Total Method	
9	6.54	-31.976
219	2.35	-1.248
Std Dev	2.32	-1.000
23	2.26	-0.551
38	2.23	-0.367
23	2.20	-0.110

24	2.19	-0.073
34	2.19	-0.073
24	2.18	0.000
Median	2.18	0.000
14	2.13	0.367
14	2.13	0.404
Std Dev	2.04	1.000
61	2.03	1.101
61	2.03	1.101
32	2.03	1.101
31	1.99	1.395
32	1.95	1.725

145.99 Total Sulfur (S)		
Lab	Other	
102	2.28	-2.606
Std Dev	2.17	-1.000
43	2.11	0.000
Median	2.11	0.000
43	2.10	0.074

145.XX Total Sulfur (S)		
Lab	Total Method	
102	2.28	-2.606
Std Dev	2.17	-1.000
43	2.11	0.000
Median	2.11	0.000
43	2.10	0.074

151.30 Total Arsenic		
Lab	ICP	
102	15.00	-0.923
24	14.40	-0.463
64	14.27	-0.363
61	13.80	0.000
Median	13.80	0.000
61	13.40	0.309
Std Dev	12.51	1.000
43	11.80	1.545
43	11.60	1.699

151.XX Total Arsenic		
Lab	Total Method	
102	15.00	-0.923

24	14.40	-0.463
64	14.27	-0.363
61	13.80	0.000
Median	13.80	0.000
61	13.40	0.309
Std Dev	12.51	1.000
43	11.80	1.545
43	11.60	1.699

165.99	Acid Soluble Boron	
Lab	PPM	Other
24	66.10	-1.340
Std Dev	66.05	-1.000
Median	65.89	0.000
Std Dev	65.73	1.000
102	65.68	1.340

65.XX, ppm	Acid Soluble Boron	
Lab	PPM	Total Method
24	66.10	-1.340
Std Dev	66.05	-1.000
Median	65.89	0.000
Std Dev	65.73	1.000
102	65.68	1.340

181.30	Total Cadmium	
Lab	PPM	ICP
102	29.45	-4.826
64	27.45	-1.771
Std Dev	26.94	-1.000
43	26.31	-0.023
43	26.29	0.000
Median	26.29	0.000
61	26.00	0.443
61	26.00	0.443
Std Dev	25.64	1.000
31	23.50	4.261

181.99	Total Cadmium	
Lab		Other
24	30.70	0.000
Median	30.70	0.000

181.XX	Total Cadmium	
Lab	PPM	Total Method
24	30.70	-3.025
102	29.45	-2.166
Std Dev	27.75	-1.000
64	27.45	-0.792
43	26.31	-0.005
Median	26.30	0.000
43	26.29	0.005
61	26.00	0.204
61	26.00	0.204
Std Dev	24.84	1.000
31	23.50	1.922

190.00	Aluminum	
Lab	%Al ₂ O ₃	ICP
102	0.94	-5.427
23	0.85	-1.117
Std Dev	0.84	-1.000
14	0.84	-0.893
14	0.84	-0.893
31	0.84	-0.893
23	0.83	-0.447
9	0.83	-0.223
32	0.82	0.000
34	0.82	0.000
Median	0.82	0.000
43	0.82	0.223
43	0.82	0.223
24	0.81	0.447
24	0.81	0.447
32	0.80	0.893
Std Dev	0.80	1.000
61	0.79	1.340
61	0.79	1.340

190.XX	Aluminum	
Lab	%Al ₂ O ₃	Total Method
102	0.94	-5.427
23	0.85	-1.117
Std Dev	0.84	-1.000
14	0.84	-0.893
14	0.84	-0.893
31	0.84	-0.893

23	0.83	-0.447
9	0.83	-0.223
32	0.82	0.000
34	0.82	0.000
Median	0.82	0.000
43	0.82	0.223
43	0.82	0.223
24	0.81	0.447
24	0.81	0.447
32	0.80	0.893
Std Dev	0.80	1.000
61	0.79	1.340
61	0.79	1.340

191.30	Total Chromium	
Lab		ICP
102	268.00	-4.754
64	251.42	-1.088
31	251.20	-1.039
Std Dev	251.02	-1.000
43	246.50	0.000
43	246.50	0.000
Median	246.50	0.000
61	244.00	0.553
61	244.00	0.553

191.99	Total Chromium	
Lab	PPM	Other
24	255.00	0.000
Median	255.00	0.000

191.XX	Total Chromium	
Lab	PPM	Total Method
102	268.00	-3.985
24	255.00	-1.280
Std Dev	253.66	-1.000
64	251.42	-0.535
31	251.20	-0.489
Median	248.85	0.000
43	246.50	0.489
43	246.50	0.489
Std Dev	244.04	1.000
61	244.00	1.009
61	244.00	1.009

202.30	Acid Soluble Cobalt	
Lab	PPM	ICP
102	2.54	-3.585
Std Dev	2.15	-1.000
43	2.00	0.000
43	2.00	0.000
Median	2.00	0.000
Std Dev	1.85	1.000
61	1.80	1.340
61	1.80	1.340

202.99	Acid Soluble Cobalt	
Lab		Other
24	1.92	0.000
Median	1.92	0.000

202.XX	Acid Soluble Cobalt	
Lab	PPM	Total Method
102	2.54	-4.532
Std Dev	2.09	-1.000
43	2.00	-0.315
43	2.00	-0.315
Median	1.96	0.000
24	1.92	0.315
Std Dev	1.83	1.000
61	1.80	1.261
61	1.80	1.261

221.00	Acid Soluble Copper	
Lab		Atomic Absorption
219	0.67	0.000
Median	0.67	0.000

221.30	Acid Soluble Copper	
Lab	PPM	ICP
61	<1	0.000
61	<1	0.000
102	4.41	-1.730
Std Dev	4.03	-1.000
43	3.50	0.000
Median	3.50	0.000
43	3.00	0.950

221.99 Acid Soluble Copper		
Lab		Other
24	4.86	0.000
Median	4.86	0.000

221.XX Acid Soluble Copper		
Lab	PPM	Total Method
61	<1	0.000
61	<1	0.000
219	6.00	-1.567
Std Dev	5.42	-1.000
24	4.86	-0.443
102	4.41	0.000
Median	4.41	0.000
43	3.50	0.897
43	3.00	1.389

241.30 Acid Soluble Iron		
Lab	%Fe ₂ O ₃	ICP
102	0.74	-2.229
Std Dev	0.70	-1.000
23	0.69	-0.670
23	0.69	-0.670
24	0.69	-0.670
34	0.69	-0.670
24	0.68	-0.335
31	0.68	-0.335
61	0.67	0.000
61	0.67	0.000
Median	0.67	0.000
32	0.66	0.335
14	0.66	0.503
14	0.65	0.670
43	0.65	0.670
43	0.65	0.838
Std Dev	0.64	1.000
9	0.64	1.005
32	0.64	1.173

241.XX Acid Soluble Iron		
Lab	%Fe ₂ O ₃	Total Method
102	0.74	-2.229
Std Dev	0.70	-1.000
23	0.69	-0.670

23	0.69	-0.670
24	0.69	-0.670
34	0.69	-0.670
24	0.68	-0.335
31	0.68	-0.335
219	0.67	-0.017
61	0.67	0.000
61	0.67	0.000
Median	0.67	0.000
32	0.66	0.335
14	0.66	0.503
14	0.65	0.670
43	0.65	0.670
43	0.65	0.838
Std Dev	0.64	1.000
9	0.64	1.005
32	0.64	1.173

251.30 Total Lead		
Lab	PPM	ICP
102	<5	0.000
43	<1	0.000
43	<1	0.000
61	2.10	-1.340
Std Dev	2.09	-1.000
Median	2.08	0.000
61	2.05	1.340

251.99 Total Lead		
Lab		Other
24	<0.01	0.000
Median	0.00	0.000

251.XX Total Lead		
Lab	PPM	Total Method
102	<5	0.000
43	<1	0.000
43	<1	0.000
24	<0.01	0.000
61	2.10	-1.340
Median	2.08	0.000
61	2.05	1.340

261.11 Acid Soluble Manganese		
Lab		Atomic Absorption
219	113.50	0.000
Median	113.50	0.000

261.30 Acid Soluble Manganese		
Lab		ICP
102	120.50	-1.340
Std Dev	119.29	-1.000
Median	115.73	0.000
Std Dev	112.16	1.000
31	110.95	1.340

261.99 Acid Soluble Manganese		
Lab	PPM	Other
43	120.00	-0.447
43	119.50	-0.391
24	116.00	0.000
Median	116.00	0.000
61	107.50	0.949
61	107.50	0.949

261.XX Acid Soluble Manganese		
Lab	PPM	Total Method
102	120.50	-0.808
43	120.00	-0.738
43	119.50	-0.667
24	116.00	-0.176
Median	114.75	0.000
219	113.50	0.176
31	110.95	0.534
Std Dev	107.63	1.000
61	107.50	1.019
61	107.50	1.019

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

281.99 Total Mercury		
Lab	PPM	Other
102	<0.4	0.000
Median	0.00	0.000

281.XX Total Mercury		
Lab	PPM	Total Method
102	<0.4	0.000
24	<0.09	0.000
Median	0.00	0.000

289.30 Total Molybdenum		
Lab	PPM	ICP
102		

289.99 Total Molybdenum		
Lab	PPM	Other
24	4.43	0.000
Median	4.43	0.000

289.XX Total Molybdenum		
Lab	PPM	Total Method
102	4.65	-0.488
24	4.43	-0.311
43	4.05	0.000
43	4.05	0.000
Median	4.05	0.000
Std Dev	2.83	1.000
61	2.25	1.475
61	2.25	1.475

291.30 Total Nickel		
Lab		ICP
64	37.16	-2.439
Std Dev	36.62	-1.000
61	36.50	-0.670
61	36.50	-0.670
Median	36.25	0.000
43	36.00	0.670
43	36.00	0.670
Std Dev	35.88	1.000
102	35.35	2.412

291.99 Total Nickel		
Lab	PPM	Other
24	37.00	0.000
Median	37.00	0.000

291.XX		Total Nickel
Lab	PPM	Total Method
64	37.16	-1.179
Std Dev	37.06	-1.000
24	37.00	-0.893
61	36.50	0.000
61	36.50	0.000
Median	36.50	0.000
43	36.00	0.893
43	36.00	0.893
Std Dev	35.94	1.000
102	35.35	2.055

301.30		Total Selenium
Lab	PPM	ICP
102	<5	0.000
24	<0.27	0.000
Median	0.00	0.000

301.XX		Total Selenium
Lab	PPM	Total Method
102	<5	0.000
24	<0.27	0.000
Median	0.00	0.000

311.00		Sodium
Lab	%Na ₂ O	Atomic Absorbtion
61	0.15	0.000
Median	0.15	0.000

311.99		Sodium
Lab	%Na ₂ O	Other
43	1.30	-50.531
43	1.30	-50.531
Std Dev	0.19	-1.000
23	0.18	-0.447
23	0.18	-0.447
9	0.17	0.000
Median	0.17	0.000
24	0.15	0.893
61	0.15	0.893
Std Dev	0.15	1.000
24	0.14	1.340
102	0.13	1.635

311.XX		Sodium
Lab	%Na ₂ O	Total Method
43	1.30	-50.978
43	1.30	-50.978
Std Dev	0.18	-1.000
23	0.18	-0.893
23	0.18	-0.893
9	0.17	-0.447
Median	0.16	0.000
24	0.15	0.447
61	0.15	0.447
61	0.15	0.447
24	0.14	0.893
Std Dev	0.14	1.000
102	0.13	1.188

321.00		Acid Soluble Zinc
Lab		Atomic Absorption
219	290.00	0.000
Median	290.00	0.000

321.30		Acid Soluble Zinc
Lab	PPM	ICP
24	322.00	-0.708
102	321.50	-0.674
64	313.61	-0.139
Median	311.56	0.000
39	309.50	0.139
Std Dev	296.80	1.000
61	296.50	1.020
61	296.50	1.020

321.99		Acid Soluble Zinc
Lab		Other
43	277.50	0.000
43	277.50	0.000
Median	277.50	0.000

321.XX		Acid Soluble Zinc
Lab	PPM	Total Method
24	322.00	-1.447
102	321.50	-1.419
Std Dev	314.12	-1.000

64	313.61	-0.971
39	309.50	-0.738
61	296.50	0.000
61	296.50	0.000
Median	296.50	0.000
219	290.00	0.369
Std Dev	278.88	1.000
43	277.50	1.078
43	277.50	1.078

325.10		Fluoride
Lab	%	Electrode
32	0.46	-2.010
32	0.46	-1.843
31	0.44	-1.340
34	0.41	-0.335
23	0.40	0.000
24	0.40	0.000
24	0.40	0.000
Median	0.40	0.000
23	0.39	0.335
14	0.37	0.905
14	0.37	1.022

325.99		Fluoride
Lab	%	Other
61	0.41	-1.340
Median	0.40	0.000
61	0.40	1.340

325.XX		Fluoride
Lab	%	Total Method
32	0.46	-3.385
32	0.46	-3.103
31	0.44	-2.257
34	0.41	-0.564
61	0.41	-0.282
23	0.40	0.000
24	0.40	0.000
24	0.40	0.000
Median	0.40	0.000
61	0.40	0.282
23	0.39	0.564
14	0.37	1.523

14 0.37

1.721