

AFPC

2014-05

Grade

18-46-0

Sample

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, Other		001.99	16	17.73	0.06
Method Group 001.XX PCT			16	17.73	0.08
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	2	18.12	0.00
Total Nitrogen, Salicylic	955.04d	010.12	1	17.95	0.00
Total Nitrogen, Combustion	993.13	010.60	20	18.19	0.17
Total Nitrogen, Other		010.99	4	17.92	0.23
Method Group 010.XX PCT			27	18.14	0.18
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	2	46.48	0.14
Total Phosphate, Spectrometric	978.02	020.20	19	46.30	0.09
Total Phosphate, ICP	970.03	020.40	2	46.32	0.01
Method Group 020.XX PCT			23	46.31	0.09
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	11	0.15	0.06
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	1	0.14	0.00
Insoluble Phosphate, Automated	978.01	030.40	2	0.27	0.00
Insoluble Phosphate, Other		030.99	2	0.27	0.02
Method Group 030.XX PCT			16	0.20	0.10
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Spectrometric	960.02	040.20	12	46.12	0.13
Indirect Available Phosphate, Automated	960.02	040.40	1	46.06	0.00
Indirect Available Phosphate, Other		040.99	4	46.07	0.14
Method Group 040.XX PCT			17	46.12	0.14
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	3	46.24	0.09
Direct Available Phosphate, Automated	978.01	041.40	2	46.05	0.23
Direct Available Phosphate, ICP		041.50	4	45.97	0.33
Direct Available Phosphate, EDTA Extract	993.01	041.60	4	46.47	0.08
Method Group 041.XX PCT			13	46.24	0.34
WATER SOLUBLE PHOSPHATE					
Water Soluble Phosphate, Spectrometric	970.01	048.20	13	41.85	0.40
Water Soluble Phosphate, Other		048.99	3	41.94	0.17
Method Group 048.XX PCT			16	41.87	0.45
SOLUBLE POTASH AS K₂O					
Soluble Potash, ICP(Oxalate)		050.50	3	0.19	0.03
Soluble Potash, Other		050.99	6	0.20	0.01
Method Group 050.XX PCT			9	0.19	0.01
FREE WATER					
Free Water, Vacuum Oven	965.08B	060.00	13	1.95	0.19
Free Water, Vacuum Desiccate	965.08A	060.10	2	2.46	0.17
Free Water, Other		060.99	3	1.74	0.05
Method Group 060.XX PCT			18	1.92	0.29
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	14	0.32	0.01
Method Group 101.XX PCT			15	0.32	0.02
ACID SOLUBLE MAGNESIUM AS MgO					
Acid Soluble Magnesium, Atomic Absorption	984.01	121.00	1	0.76	0.00
Acid Soluble Magnesium, ICP		121.30	14	1.04	0.03
Method Group 121.XX PCT			15	1.04	0.05
SULFATE SULFUR (S)					
Sulfur, Gravimetric	980.02(a)	144.01	3	1.07	0.01
Sulfur, Spectrometric		144.70	2	1.10	0.00
Sulfur, Other		144.99	12	1.08	0.06
Method Group 144.XX PCT			17	1.08	0.04

TOTAL SULFUR (S)					
Sulfur, Other		145.99	1	1.25	0.00
Method Group 145.XX PCT			1	1.25	0.00
TOTAL ARSENIC					
Total Arsenic, ICP	980.02(b)	151.02	6	11	0.7
Total Arsenic, Other		151.99	1	11	0.0
Method Group 151.XX PPM			7	11	0.8
ACID SOLUBLE BORON					
Acid Soluble Boron, Other		165.99	1	39	0.0
Method Group 165.XX PPM			1	39	0.0
TOTAL CADMIUM					
Total Cadmium, ICP		181.30	7	3	0.5
Total Cadmium, Other		181.99	1	3	0.0
Method Group 181.XX PPM			8	3	0.6
ALUMINUM AS Al₂O₃					
ICP, %			14	1.59	0.04
Water Soluble Chlorine, Other, %		190.99	1	1.62	0.00
Method Group 190.XX PCT			15	1.60	0.05
TOTAL CHROMIUM					
Total Chromium, ICP		191.30	7	80	3.5
Method Group 191.XX PPM			7	80	4.2
ACID SOLUBLE COBALT					
Acid Soluble Cobalt, ICP		202.30	5	2	0.6
Acid Soluble Cobalt, Other		202.99	1	2	0.0
Method Group 202.XX PPM			6	2	0.7
ACID SOLUBLE COPPER					
Acid Soluble Copper, ICP		221.30	1	2	0.0
Acid Soluble Copper, Other		221.99	1	0	0.0
Method Group 221.XX PPM			2	1	0.7
ACID SOLUBLE IRON AS Fe₂O₃					
Acid Soluble Iron, ICP		241.30	15	1.29	0.02
Method Group 241.XX PCT			16	1.29	0.03
TOTAL LEAD					
Total Lead, ICP		251.30	5	1	0.0
Total Lead, Other		251.99	1	1	0.0
Method Group 251.XX PPM			6	1	0.0
ACID SOLUBLE MANGANESE					
Acid Soluble Manganese, Atomic Absorption	972.02b	261.11	1	319	0.0
Acid Soluble Manganese, ICP	972.02a	261.30	3	319	10.8
Acid Soluble Manganese, Other		261.99	3	314	8.8
Method Group 261.XX PPM			7	316	6.6
TOTAL MOLYBDENUM					
Total Molybdenum, ICP		289.30	5	12	0.8
Total Molybdenum, Other		289.99	1	14	0.0
Method Group 289.XX PPM			6	12	1.1
TOTAL NICKEL					
Total Nickel, ICP		291.30	5	12	0.5
Total Nickel, Other		291.99	1	11	0.0
Method Group 291.XX PPM			6	11	0.9
TOTAL SELENIUM					
Total Selenium, ICP		301.30	1	2	0.0
Method Group 301.XX PPM			1	2	0.0
SODIUM AS Na₂O					
Sodium, Other		311.99	7	0.23	0.01
Method Group 311.XX PCT			7	0.23	0.01
ACID SOLUBLE ZINC					
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	1	44.4	0.0
Acid Soluble Zinc, ICP		321.30	6	38.9	2.5
Method Group 321.XX PPM			7	39.0	3.3
FLUORIDE					
Volumetric		325.10	12	2.14	0.04
Distilled/Electrode		325.99	2	2.21	0.01

Method Group 325.XX PCT	14	2.14	0.06
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001.99 Ammoniacal Nitrogen		
Lab		Other
79	17.84	-1.748
140	17.82	-1.359
34	17.80	-1.126
Std Dev	17.79	-1.000
24	17.79	-0.971
24	17.77	-0.660
61	17.77	-0.583
18	17.76	-0.505
275	17.73	-0.039
Median	17.73	0.000
23	17.73	0.039
61	17.73	0.039
23	17.72	0.117
275	17.70	0.505
32	17.67	0.893
Std Dev	17.66	1.000
310	17.62	1.670
32	17.57	2.447
38	17.09	9.904

001.XX Ammoniacal Nitrogen		
Lab		Total Method
79	17.84	-1.748
140	17.82	-1.359
34	17.80	-1.126
Std Dev	17.79	-1.000
24	17.79	-0.971
24	17.77	-0.660
61	17.77	-0.583
18	17.76	-0.505
275	17.73	-0.039
Median	17.73	0.000
23	17.73	0.039
61	17.73	0.039
23	17.72	0.117
275	17.70	0.505
32	17.67	0.893
Std Dev	17.66	1.000
310	17.62	1.670
32	17.57	2.447
38	17.09	9.904

010.11 Total Nitrogen		
Lab		Modified Comprehensive
18	18.13	-1.340
Std Dev	18.12	-1.000
Median	18.12	0.000
Std Dev	18.12	1.000
219	18.12	1.340

010.12 Total Nitrogen		
Lab		Salicylic
107	17.95	0.000
Median	17.95	0.000

010.60 Total Nitrogen		
Lab		Combustion
47	18.45	-1.566
49	18.43	-1.415
Std Dev	18.36	-1.000
99	18.33	-0.813
31	18.29	-0.602
14	18.29	-0.572
14	18.27	-0.452
219	18.22	-0.181
64	18.21	-0.090
24	18.20	-0.060
24	18.20	-0.060
Median	18.19	0.000
79	18.18	0.060
9	18.14	0.301
63	18.14	0.301
66	18.11	0.512
75	18.05	0.843
77	18.04	0.903
Std Dev	18.02	1.000
80	18.00	1.144
103	17.92	1.656
29	17.60	3.583
110	17.49	4.246

010.99 Total Nitrogen		
Lab		Other
34	18.21	-1.279
Std Dev	18.15	-1.000
140	18.05	-0.551

Median	17.92	0.000
32	17.80	0.551
32	17.75	0.772

010.XX Total Nitrogen		
Lab		Total Method
47	18.45	-2.130
49	18.43	-1.958
99	18.33	-1.271
31	18.29	-1.031
Std Dev	18.29	-1.000
14	18.29	-0.996
14	18.27	-0.859
219	18.22	-0.550
34	18.21	-0.481
64	18.21	-0.447
24	18.20	-0.412
24	18.20	-0.412
79	18.18	-0.275
9	18.14	0.000
63	18.14	0.000
Median	18.14	0.000
18	18.13	0.103
219	18.12	0.137
66	18.11	0.241
75	18.05	0.618
140	18.05	0.653
77	18.04	0.687
80	18.00	0.962
Std Dev	17.99	1.000
107	17.95	1.340
103	17.92	1.546
32	17.80	2.371
32	17.75	2.714
29	17.60	3.745
110	17.49	4.501

020.10 Total Phosphate		
Lab		Gravimetric Quimociac
310	46.67	-1.340
Std Dev	46.62	-1.000
Median	46.48	0.000
Std Dev	46.33	1.000
219	46.29	1.340

020.20 Total Phosphate		
Lab		Spectrometric
24	46.45	-1.748
31	46.44	-1.631
34	46.44	-1.631
24	46.43	-1.515
61	46.39	-1.049
Std Dev	46.39	-1.000
32	46.37	-0.757
140	46.32	-0.233
32	46.32	-0.175
9	46.31	-0.117
14	46.30	0.000
Median	46.30	0.000
99	46.30	0.058
14	46.29	0.117
79	46.28	0.233
23	46.27	0.350
61	46.26	0.524
Std Dev	46.21	1.000
23	46.20	1.223
18	46.01	3.437
110	45.57	8.506
38	41.31	58.203

020.40 Total Phosphate		
Lab		Automated
219	46.33	-1.340
Std Dev	46.33	-1.000
Median	46.32	0.000
Std Dev	46.31	1.000
9	46.31	1.340

020.XX Total Phosphate		
Lab		Total Method
310	46.67	-4.706
24	46.45	-1.830
31	46.44	-1.700
34	46.44	-1.700
24	46.43	-1.569
61	46.39	-1.046
Std Dev	46.39	-1.000
32	46.37	-0.719

219	46.33	-0.261
140	46.32	-0.131
32	46.32	-0.065
9	46.31	0.000
9	46.31	0.000
Median	46.31	0.000
14	46.30	0.131
99	46.30	0.196
14	46.29	0.261
219	46.29	0.327
79	46.28	0.392
23	46.27	0.523
61	46.26	0.719
Std Dev	46.23	1.000
23	46.20	1.503
18	46.01	3.987
110	45.57	9.674
38	41.31	65.431

030.20 Insoluble Phosphate Spectrometric		
Lab		
61	0.35	-3.330
61	0.25	-1.624
79	0.21	-1.056
Std Dev	0.21	-1.000
140	0.21	-0.975
18	0.19	-0.731
23	0.15	0.000
Median	0.15	0.000
23	0.14	0.081
24	0.13	0.244
24	0.12	0.406
14	0.09	0.893
14	0.09	0.893

030.30 Insoluble Phosphate Alka. Quimociac		
Lab		
31	0.14	0.000
Median	0.14	0.000

030.40 Insoluble Phosphate Automated		
Lab		
34	0.27	-1.340
Std Dev	0.27	-1.000

Median	0.27	0.000
Std Dev	0.26	1.000
9	0.26	1.340

030.99 Insoluble Phosphate Other		
Lab		
32	0.30	-1.340
Std Dev	0.29	-1.000
Median	0.27	0.000
Std Dev	0.25	1.000
32	0.24	1.340

030.XX Insoluble Phosphate Total Method		
Lab		
61	0.35	-1.777
32	0.30	-1.136
Std Dev	0.28	-1.000
34	0.27	-0.845
9	0.26	-0.728
61	0.25	-0.553
32	0.24	-0.495
79	0.21	-0.146
140	0.21	-0.087
Median	0.20	0.000
18	0.19	0.087
23	0.15	0.612
23	0.14	0.670
31	0.14	0.728
24	0.13	0.787
24	0.12	0.903
Std Dev	0.11	1.000
14	0.09	1.253
14	0.09	1.253

040.20 Indirect Available Phosphate Spectrometric		
Lab		
24	46.33	-1.563
24	46.31	-1.414
31	46.31	-1.377
Std Dev	46.25	-1.000
14	46.21	-0.670
14	46.20	-0.596
23	46.13	-0.037
Median	46.12	0.000

140	46.12	0.037
79	46.07	0.372
23	46.06	0.484
9	46.05	0.521
61	46.04	0.596
61	46.01	0.819

040.40 Indirect Available Phosphate Automated		
Lab		
9	46.06	0.000
Median	46.06	0.000

040.99 Indirect Available Phosphate Other		
Lab		
34	46.17	-0.716
32	46.13	-0.385
Median	46.07	0.000
32	46.02	0.385
Std Dev	45.94	1.000
18	45.76	2.331

040.XX Indirect Available Phosphate Total Method		
Lab		
24	46.33	-1.921
24	46.31	-1.742
31	46.31	-1.697
Std Dev	46.23	-1.000
14	46.21	-0.849
14	46.20	-0.759
34	46.17	-0.491
23	46.13	-0.089
32	46.13	-0.089
140	46.12	0.000
Median	46.12	0.000
79	46.07	0.402
9	46.06	0.491
23	46.06	0.536
9	46.05	0.581
61	46.04	0.670
32	46.02	0.849
61	46.01	0.938
Std Dev	46.00	1.000
18	45.76	3.216

041.10 Direct Available Phosphate Gravimetric Quimociac		
Lab		
47	46.38	-1.477
Std Dev	46.33	-1.000
107	46.24	0.000
Median	46.24	0.000
Std Dev	46.15	1.000
219	46.13	1.203

041.40 Direct Available Phosphate Automated		
Lab		
49	46.36	-1.340
Std Dev	46.28	-1.000
Median	46.05	0.000
Std Dev	45.81	1.000
103	45.74	1.340

041.50 Direct Available Phosphate ICP		
Lab		
63	46.49	-1.605
Std Dev	46.29	-1.000
47	46.09	-0.361
Median	45.97	0.000
66	45.85	0.361
Std Dev	45.64	1.000
80	45.45	1.590

041.60 Direct Available Phosphate EDTA Extract		
Lab		
219	46.48	-0.154
29	46.48	-0.103
Median	46.47	0.000
64	46.46	0.103
Std Dev	46.39	1.000
77	46.11	4.591

041.XX Direct Available Phosphate Total Method		
Lab		
63	46.49	-0.893
219	46.48	-0.858
29	46.48	-0.843
64	46.46	-0.786
47	46.38	-0.482
49	46.36	-0.429

107	46.24	0.000
Median	46.24	0.000
219	46.13	0.393
77	46.11	0.465
47	46.09	0.554
Std Dev	45.96	1.000
66	45.85	1.394
103	45.74	1.805
80	45.45	2.823

048.20 Water Soluble Phosphate Spectrometric		
Lab		
14	42.13	-0.695
14	42.10	-0.632
24	42.01	-0.405
31	41.99	-0.354
23	41.95	-0.240
140	41.88	-0.063
23	41.85	0.000
Median	41.85	0.000
9	41.82	0.076
79	41.52	0.847
24	41.46	0.986
Std Dev	41.45	1.000
61	41.37	1.214
61	41.33	1.327
18	41.06	2.010

048.99 Water Soluble Phosphate Other		
Lab		
32	42.33	-2.272
Std Dev	42.11	-1.000
34	41.94	0.000
Median	41.94	0.000
32	41.87	0.408

048.XX Water Soluble Phosphate Total Method		
Lab		
32	42.33	-1.242
Std Dev	42.24	-1.000
14	42.13	-0.685
14	42.10	-0.617
24	42.01	-0.373
31	41.99	-0.319

23	41.95	-0.197
34	41.94	-0.183
140	41.88	-0.007
Median	41.87	0.000
32	41.87	0.007
23	41.85	0.061
9	41.82	0.142
79	41.52	0.970
Std Dev	41.50	1.000
24	41.46	1.119
61	41.37	1.364
61	41.33	1.486
18	41.06	2.219

050.50 %K ₂ O Soluble Potash ICP(Oxalate)		
Lab		
23	0.19	0.000
23	0.19	0.000
Median	0.19	0.000
Std Dev	0.16	1.000
99	0.11	2.680

050.99 %K ₂ O Soluble Potash Other		
Lab		
80	0.40	-18.313
Std Dev	0.21	-1.000
61	0.20	-0.447
31	0.20	0.000
61	0.20	0.000
Median	0.20	0.000
Std Dev	0.18	1.000
24	0.18	1.340
24	0.18	1.340

050.XX %K ₂ O Soluble Potash Total Method		
Lab		
80	0.40	-18.760
Std Dev	0.20	-1.000
61	0.20	-0.893
31	0.20	-0.447
61	0.20	-0.447
23	0.19	0.000
23	0.19	0.000
Median	0.19	0.000

24	0.18	0.893
24	0.18	0.893
Std Dev	0.18	1.000
99	0.11	7.147

060.00 Free Water Vacuum Oven		
Lab		
140	2.22	-1.392
Std Dev	2.14	-1.000
32	2.09	-0.722
32	2.08	-0.644
24	2.07	-0.618
79	2.03	-0.387
23	1.96	-0.052
23	1.95	0.000
Median	1.95	0.000
24	1.88	0.361
34	1.86	0.464
9	1.81	0.722
Std Dev	1.76	1.000
31	1.73	1.160
14	1.68	1.392
14	1.67	1.443

060.10 Free Water Vacuum Desiccate		
Lab		
61	2.69	-1.340
Std Dev	2.63	-1.000
Median	2.46	0.000
Std Dev	2.28	1.000
61	2.23	1.340

060.99 Free Water Other		
Lab		
310	1.83	-1.958
Std Dev	1.78	-1.000
275	1.74	0.000
Median	1.74	0.000
275	1.70	0.722

060.XX Free Water Total Method		
Lab		
61	2.69	-3.245
61	2.23	-1.298

140	2.22	-1.277
Std Dev	2.15	-1.000
32	2.09	-0.733
32	2.08	-0.670
24	2.07	-0.649
79	2.03	-0.461
23	1.96	-0.188
23	1.95	-0.147
Median	1.92	0.000
24	1.88	0.147
34	1.86	0.230
310	1.83	0.356
9	1.81	0.440
275	1.74	0.754
31	1.73	0.796
275	1.70	0.900
14	1.68	0.984
Std Dev	1.68	1.000
14	1.67	1.026

101.00 %CaO Acid Soluble Calcium Atomic Absorption		
Lab		
219	0.21	0.000
Median	0.21	0.000

101.30 %CaO Acid Soluble Calcium ICP		
Lab		
31	0.34	-1.690
32	0.34	-1.031
Std Dev	0.33	-1.000
24	0.33	-0.618
34	0.33	-0.618
23	0.33	-0.206
32	0.33	-0.206
61	0.33	-0.206
Median	0.32	0.000
23	0.32	0.206
24	0.32	0.206
61	0.32	0.206
Std Dev	0.31	1.000
9	0.31	1.031
14	0.30	1.855
14	0.30	2.268
38	0.17	12.575

101.XX Acid Soluble Calcium		
Lab	%CaO	Total Method
31	0.34	-1.370
Std Dev	0.34	-1.000
32	0.34	-0.893
24	0.33	-0.596
34	0.33	-0.596
23	0.33	-0.298
32	0.33	-0.298
61	0.33	-0.298
23	0.32	0.000
24	0.32	0.000
61	0.32	0.000
Median	0.32	0.000
9	0.31	0.596
Std Dev	0.30	1.000
14	0.30	1.191
14	0.30	1.489
219	0.21	6.343
38	0.17	8.933

121.00 Acid Soluble Magnesium		
Lab	%MgO	Atomic Absorption
219	0.76	0.000
Median	0.76	0.000

121.30 Acid Soluble Magnesium		
Lab	%MgO	ICP
9	1.66	-23.737
32	1.07	-1.149
Std Dev	1.07	-1.000
32	1.05	-0.191
23	1.04	0.000
24	1.04	0.000
24	1.04	0.000
34	1.04	0.000
61	1.04	0.000
Median	1.04	0.000
23	1.03	0.383
61	1.02	0.766
Std Dev	1.01	1.000
38	1.00	1.531
31	0.98	2.489

14	0.97	2.871
14	0.96	3.254

121.XX Acid Soluble Magnesium		
Lab	%MgO	Total Method
9	1.66	-15.825
Std Dev	1.08	-1.000
32	1.07	-0.766
32	1.05	-0.128
23	1.04	0.000
24	1.04	0.000
24	1.04	0.000
34	1.04	0.000
61	1.04	0.000
Median	1.04	0.000
23	1.03	0.255
61	1.02	0.510
Std Dev	1.00	1.000
38	1.00	1.021
31	0.98	1.659
14	0.97	1.914
14	0.96	2.170
219	0.76	7.096

144..01 Sulfate Sulfur (S)		
Lab		Gravimetric
79	1.09	-1.914
Std Dev	1.08	-1.000
61	1.07	0.000
Median	1.07	0.000
61	1.06	0.766

144.70 Sulfur		
Lab		Spectrometric
14	1.11	-1.340
Std Dev	1.10	-1.000
Median	1.10	0.000
Std Dev	1.10	1.000
14	1.10	1.340

144.99 Sulfate Sulfur (S)		
Lab		Other
9	3.25	-39.428
275	1.32	-4.270

275	1.24	-2.907
Std Dev	1.14	-1.000
34	1.11	-0.545
23	1.08	0.000
24	1.08	0.000
24	1.08	0.000
Median	1.08	0.000
32	1.07	0.182
32	1.07	0.182
23	1.07	0.273
38	1.05	0.636
Std Dev	1.02	1.000
31	1.02	1.012

144.XX Sulfate Sulfur (S)		
Lab		Total Method
9	3.25	-72.695
275	1.32	-7.872
275	1.24	-5.360
34	1.11	-1.005
Std Dev	1.11	-1.000
14	1.11	-0.837
14	1.10	-0.503
79	1.09	-0.335
23	1.08	0.000
24	1.08	0.000
24	1.08	0.000
Median	1.08	0.000
32	1.07	0.335
32	1.07	0.335
23	1.07	0.503
61	1.07	0.503
61	1.06	0.837
Std Dev	1.05	1.000
38	1.05	1.173
31	1.02	1.866

145.99 Total Sulfur (S)		
Lab		Other
18	1.25	0.000
Median	1.25	0.000

145.XX Total Sulfur (S)		
Lab		Total Method

18	1.25	0.000
Median	1.25	0.000

151.30 Total Arsenic		
Lab		ICP
61	12.05	-1.093
9	12.00	-1.023
Std Dev	11.98	-1.000
24	11.60	-0.458
Median	11.28	0.000
18	10.95	0.458
61	10.95	0.458
Std Dev	10.57	1.000
31	8.85	3.421

151.99 Total Arsenic		
Lab		Other
18	11.00	0.000
Median	11.00	0.000

151.XX Total Arsenic		
Lab		Total Method
61	12.05	-1.655
9	12.00	-1.576
Std Dev	11.63	-1.000
24	11.60	-0.946
18	11.00	0.000
Median	11.00	0.000
18	10.95	0.079
61	10.95	0.079
Std Dev	10.37	1.000
31	8.85	3.389

165.99 Acid Soluble Boron		
Lab	PPM	Other
24	39.30	0.000
Median	39.30	0.000

165.XX, ppm Acid Soluble Boron		
Lab	PPM	Total Method
24	39.30	0.000
Median	39.30	0.000

181.30 Total Cadmium		
Lab	PPM	ICP
275	3.34	-0.925
18	3.00	-0.283
275	2.87	-0.038
9	2.85	0.000
Median	2.85	0.000
Std Dev	2.32	1.000
61	2.25	1.132
61	2.20	1.227
31	2.05	1.510

181.99 Total Cadmium		
Lab	PPM	Other
24	2.81	0.000
Median	2.81	0.000

181.XX Total Cadmium		
Lab	PPM	Total Method
275	3.34	-1.028
Std Dev	3.33	-1.000
18	3.00	-0.343
275	2.87	-0.081
9	2.85	-0.040
Median	2.83	0.000
24	2.81	0.040
Std Dev	2.33	1.000
61	2.25	1.169
61	2.20	1.269
31	2.05	1.572

190.00 Aluminum		
Lab	%Al ₂ O ₃	ICP
32	1.69	-2.555
9	1.66	-1.807
32	1.64	-1.184
Std Dev	1.63	-1.000
14	1.63	-0.935
14	1.60	-0.312
34	1.60	-0.312
23	1.60	-0.187
Median	1.59	0.000
23	1.58	0.187
24	1.58	0.187

24	1.58	0.187
61	1.56	0.686
Std Dev	1.55	1.000
61	1.54	1.184
275	1.54	1.309
275	1.51	2.057

190.99 Aluminum		
Lab	%Al ₂ O ₃	Atomic Absorption
31	1.62	0.000
Median	1.62	0.000

190.XX Aluminum		
Lab	%Al ₂ O ₃	Total Method
32	1.69	-2.546
9	1.66	-1.742
32	1.64	-1.072
Std Dev	1.63	-1.000
14	1.63	-0.804
31	1.62	-0.536
14	1.60	-0.134
34	1.60	-0.134
23	1.60	0.000
Median	1.60	0.000
23	1.58	0.402
24	1.58	0.402
24	1.58	0.402
61	1.56	0.938
Std Dev	1.56	1.000
61	1.54	1.474
275	1.54	1.608
275	1.51	2.412

23	1.58	0.402
24	1.58	0.402
24	1.58	0.402
61	1.56	0.938
Std Dev	1.56	1.000
61	1.54	1.474
275	1.54	1.608
275	1.51	2.412

191.30 Total Chromium		
Lab	PPM	ICP
9	87.25	-2.243
18	84.70	-1.505
Std Dev	82.96	-1.000
31	82.15	-0.767
61	79.50	0.000
Median	79.50	0.000
275	79.09	0.119
61	78.50	0.289
Std Dev	76.04	1.000

275	73.35	1.781
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191.XX Total Chromium		
Lab	PPM	Total Method
9	87.25	-2.243
18	84.70	-1.505
Std Dev	82.96	-1.000
31	82.15	-0.767
61	79.50	0.000
Median	79.50	0.000
275	79.09	0.119
61	78.50	0.289
Std Dev	76.04	1.000
275	73.35	1.781

202.30 Acid Soluble Cobalt		
Lab	PPM	ICP
61		

202.99 Acid Soluble Cobalt		
Lab	PPM	Other
24	2.04	0.000
Median	2.04	0.000

202.XX Acid Soluble Cobalt		
Lab	PPM	Total Method
61	2.70	-0.946
61	2.55	-0.665
9	2.35	-0.290
Median	2.20	0.000
24	2.04	0.290
18	1.70	0.928
Std Dev	1.66	1.000
31	1.57	1.171

221.00 Acid Soluble Copper		
Lab	PPM	Atomic Absorption
219	1.29	0.000
Median	1.29	0.000

221.30 Acid Soluble Copper		
Lab	PPM	ICP
61	<0.4	0.000
61	<0.4	0.000
18	1.70	0.000

Median	1.70	0.000
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221.99 Acid Soluble Copper		
Lab	PPM	Other
24	0.17	0.000
Median	0.17	0.000

221.XX Acid Soluble Copper		
Lab	PPM	Total Method
61	<0.4	0.000
61	<0.4	0.000
18	1.70	-1.340
Std Dev	1.51	-1.000
Median	0.94	0.000
24	0.17	1.340

241.30 Acid Soluble Iron		
Lab	%Fe ₂ O ₃	ICP
32	1.39	-3.917
32	1.34	-1.855
275	1.32	-1.237
Std Dev	1.31	-1.000
34	1.31	-0.825
61	1.31	-0.618
24	1.30	-0.412
24	1.30	-0.412
14	1.29	0.000
Median	1.29	0.000
23	1.29	0.206
61	1.29	0.206
23	1.28	0.412
14	1.27	0.825
Std Dev	1.27	1.000
275	1.27	1.031
9	1.26	1.237
31	1.25	1.855

241.XX Acid Soluble Iron		
Lab	%Fe ₂ O ₃	Total Method
32	1.39	-4.486
32	1.34	-2.156
275	1.32	-1.457
Std Dev	1.31	-1.000
34	1.31	-0.990

61	1.31	-0.757
24	1.30	-0.524
24	1.30	-0.524
14	1.29	-0.058
Median	1.29	0.000
219	1.29	0.058
23	1.29	0.175
61	1.29	0.175
23	1.28	0.408
14	1.27	0.874
Std Dev	1.27	1.000
275	1.27	1.107
9	1.26	1.340
31	1.25	2.039

251.30		Total Lead
Lab	PPM	ICP
18	2.55	0.693
61	1.00	0.000
61	1.00	0.000
275	1.00	0.000
275	1.00	0.000
Median	1.00	0.000

251.99		Total Lead
Lab	PPM	Other
24	0.87	0.000
Median	0.87	0.000

251.XX		Total Lead
Lab	PPM	Total Method
18	2.55	0.645
61	1.00	0.000
61	1.00	0.000
275	1.00	0.000
275	1.00	0.000
Median	1.00	0.000
24	0.87	0.645

261.11		Acid Soluble Manganese
Lab	PPM	Atomic Absorption
219	319.15	0.000
Median	319.15	0.000

261.30		Acid Soluble Manganese
Lab	PPM	ICP
9	339.00	-1.811
Std Dev	330.22	-1.000
31	319.40	0.000
Median	319.40	0.000
18	310.00	0.869

261.99		Acid Soluble Manganese
Lab	PPM	Other
61	315.50	-0.171
24	314.00	0.000
Median	314.00	0.000
Std Dev	305.23	1.000
61	292.00	2.509

261.XX		Acid Soluble Manganese
Lab	PPM	Total Method
9	339.00	-4.329
Std Dev	320.93	-1.000
31	319.40	-0.718
219	319.15	-0.672
61	315.50	0.000
Median	315.50	0.000
24	314.00	0.276
Std Dev	310.07	1.000
18	310.00	1.013
61	292.00	4.329

281.30		Total Mercury
Lab	PPM	ICP
24	<0.06	0.000
Median	0.00	0.000

281.XX		Total Mercury
Lab	PPM	Total Method
24	<0.06	0.000
Median	0.00	0.000

289.30		Total Molybdenum
Lab	PPM	ICP
9		

289.99		Total Molybdenum
Lab	PPM	Other

24	13.70	0.000
Median	13.70	0.000

289.XX		Total Molybdenum
Lab	PPM	Total Method
24	13.70	-1.512
Std Dev	13.22	-1.000
9	13.00	-0.770
18	12.55	-0.292
Median	12.28	0.000
61	12.00	0.292
61	11.50	0.823
Std Dev	11.33	1.000
31	8.55	3.954

291.30		Total Nickel
Lab	PPM	ICP
9	13.20	-3.505
Std Dev	11.99	-1.000
18	11.65	-0.309
61	11.50	0.000
Median	11.50	0.000

291.99		Total Nickel
Lab	PPM	Other
24	10.50	0.000
Median	10.50	0.000

291.XX		Total Nickel
Lab	PPM	Total Method
9	13.20	-2.646
Std Dev	11.99	-1.000
18	11.65	-0.543
61	11.50	-0.339
Median	11.25	0.000

301.30		Total Selenium
Lab	PPM	ICP
24	<0.28	0.000
18	1.75	0.000
Median	1.75	0.000

301.XX		Total Selenium
Lab	PPM	Total Method
24	<0.28	0.000

18	1.75	0.000
Median	1.75	0.000

311.99		Sodium
Lab	%Na ₂ O	Other
23	0.25	-2.010
23	0.24	-1.340
Std Dev	0.24	-1.000
24	0.23	0.000
24	0.23	0.000
61	0.23	0.000
Median	0.23	0.000
Std Dev	0.22	1.000
31	0.22	1.340
61	0.22	1.340

311.XX		Sodium
Lab	%Na ₂ O	Total Method
23	0.25	-2.010
23	0.24	-1.340
Std Dev	0.24	-1.000
24	0.23	0.000
24	0.23	0.000
61	0.23	0.000
Median	0.23	0.000
Std Dev	0.22	1.000
31	0.22	1.340
61	0.22	1.340

321.00		Acid Soluble Zinc
Lab	PPM	Atomic Absorption
219	44.40	0.000
Median	44.40	0.000

321.30		Acid Soluble Zinc
Lab	PPM	ICP
18	41.65	-1.108
24	41.60	-1.088
Std Dev	41.38	-1.000
61	39.00	-0.049
Median	38.88	0.000
275	38.76	0.049
275	37.21	0.666
61	37.00	0.750

321.XX		
Lab	PPM	Acid Soluble Zinc Total Method
219	44.40	-1.987
Std Dev	41.72	-1.000
18	41.65	-0.975
24	41.60	-0.956
61	39.00	0.000
Median	39.00	0.000
275	38.76	0.090
275	37.21	0.659
61	37.00	0.736

24	2.14	0.000
34	2.14	0.000
Median	2.14	0.000
23	2.12	0.438
32	2.11	0.766
14	2.10	0.984
14	2.09	1.094
31	2.01	2.844

325.10		
Lab	%	Fluoride Electrode
32	2.19	-1.374
79	2.18	-0.962
23	2.16	-0.412
24	2.15	-0.275
9	2.14	0.000
24	2.14	0.000
34	2.14	0.000
Median	2.14	0.000
23	2.12	0.550
32	2.11	0.962
14	2.10	1.237
14	2.09	1.374
31	2.01	3.573

325.99		
Lab	%	Fluoride Other
61	2.23	-1.340
Median	2.21	0.000
61	2.19	1.340

325.XX		
Lab	%	Fluoride Total Method
61	2.23	-1.860
32	2.19	-1.094
61	2.19	-0.984
79	2.18	-0.766
23	2.16	-0.328
24	2.15	-0.219
9	2.14	0.000