

Sample	AFPC		Grade	DAP	
	2015-05				
	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, Other		001.99	12	17.85	0.08
Method Group 001.XX PCT			12	17.85	0.10
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	3	17.92	0.03
Total Nitrogen, Salicylic	955.04d	010.12	1	18.17	0.00
Total Nitrogen, Combustion	993.13	010.60	18	18.02	0.11
Total Nitrogen, Other		010.99	2	17.94	0.00
Method Group 010.XX PCT			24	17.99	0.11
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	1	46.67	0.00
Total Phosphate, Spectrometric	978.02	020.20	20	46.37	0.13
Total Phosphate, ICP	970.03	020.40	2	46.13	0.27
Method Group 020.XX PCT			23	46.38	0.20
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	7	0.07	0.01
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	1	0.07	0.00
Insoluble Phosphate, Automated	978.01	030.40	2	0.14	0.02
Insoluble Phosphate, Other		030.99	2	0.05	0.00
Method Group 030.XX PCT			12	0.07	0.03
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Spectrometric	960.02	040.20	9	46.34	0.11
Indirect Available Phosphate, Other		040.99	1	46.26	0.00
Method Group 040.XX PCT			10	46.30	0.13
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	2	46.46	0.13
Direct Available Phosphate, Spectrometric	960.03D	041.20	1	44.94	0.00
Direct Available Phosphate, Automated	978.01	041.40	2	45.45	0.08
Direct Available Phosphate, ICP		041.50	4	45.96	0.34
Direct Available Phosphate, EDTA Extract	993.01	041.60	4	46.41	0.57
Method Group 041.XX PCT			13	45.97	0.97
WATER SOLUBLE PHOSPHATE					
Water Soluble Phosphate, Spectrometric	970.01	048.20	11	42.16	0.16
Water Soluble Phosphate, Other		048.99	3	41.88	0.11
Method Group 048.XX PCT			14	42.13	0.28
SOLUBLE POTASH AS K₂O					
Soluble Potash, ICP(Oxalate)		050.50	3	0.15	0.01
Soluble Potash, ICP(Citrate)		050.51	1	0.12	0.00
Soluble Potash, Other		050.99	8	0.15	0.01
Method Group 050.XX PCT			12	0.15	0.01
FREE WATER					
Free Water, Vacuum Oven	965.08B	060.00	12	2.00	0.11
Free Water, Karl Fisher	972.01	060.20	1	1.37	0.00
Free Water, Other		060.99	2	1.75	0.02
Method Group 060.XX PCT			15	1.98	0.15
ACID SOLUBLE CALCIUM AS CaO					
Acid Soluble Calcium, ICP		101.30	15	0.29	0.02
Method Group 101.XX PCT			15	0.29	0.03
ACID SOLUBLE MAGNESIUM AS MgO					
Acid Soluble Magnesium, ICP		121.30	15	0.86	0.04
Method Group 121.XX PCT			15	0.86	0.05
SULFATE SULFUR (S)					
Sulfur, Spectrometric		144.70	2	1.57	0.01
Sulfur, Other		144.99	9	1.58	0.02
Method Group 144.XX PCT			11	1.58	0.02
TOTAL SULFUR (S)					

Sulfur, Other	145.99	2	1.6	0.0
Method Group 145.XX PCT		2	1.6	0.0
TOTAL ARSENIC				
Total Arsenic, ICP	980.02(b)	7	12	6.4
Total Arsenic, Other	151.99	2	12	0.3
Method Group 151.XX PPM		9	12	0.7
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, ICP	181.30	8	3.5	0.3
Total Cadmium, Other	181.99	1	3.3	0.0
Method Group 181.XX PPM		9	3.5	0.4
ALUMINUM AS Al₂O₃				
ICP, %		14	1.46	0.06
Water Soluble Chlorine, Other, %	190.99	1	1.50	0.00
Method Group 190.XX PCT		15	1.47	0.06
TOTAL CHROMIUM				
Total Chromium, ICP	191.30	6	77	0.6
Total Chromium, Other	191.99	1	72	0.0
Method Group 191.XX PPM		7	77	1.7
ACID SOLUBLE COBALT				
Acid Soluble Cobalt, ICP	202.30	4	3	0.7
Acid Soluble Cobalt, Other	202.99	1	2	0.0
Method Group 202.XX PPM		5	2	0.9
ACID SOLUBLE COPPER				
Acid Soluble Copper, ICP	221.30	3	1.0	0.1
Acid Soluble Copper, Other	221.99	1	0.0	0.0
Method Group 221.XX PPM		4	0.9	0.2
ACID SOLUBLE IRON AS Fe₂O₃				
Acid Soluble Iron, ICP	241.30	15	1.29	0.03
Method Group 241.XX PCT		15	1.29	0.04
TOTAL LEAD				
Total Lead, ICP	251.30	4	2	1.3
Total Lead, Other	251.99	1	1.1	0.0
Method Group 251.XX PPM		5	2	1.2
ACID SOLUBLE MANGANESE				
Acid Soluble Manganese, ICP	972.02a	2	308	1.0
Acid Soluble Manganese, Other	261.99	5	315	45.1
Method Group 261.XX PPM		7	310	31.3
TOTAL MERCURY				
Total Mercury, Atomic Absorbion	281.00	1	0	0.00
Total Mercury, ICP	281.30	1	0.00	0.00
Method Group 281.XX PPM		2	0.09	0.08
TOTAL MOLYBDENUM				
Total Molybdenum, ICP	289.30	6	11	0.8
Total Molybdenum, Other	289.99	1	13	0.0
Method Group 289.XX PPM		7	11	1.1
TOTAL NICKEL				
Total Nickel, ICP	291.30	5	12.0	0.4
Total Nickel, icp	291.99	2	11.8	1.1
Method Group 291.XX PPM		7	12.0	0.9
TOTAL SELENIUM				
Total Selenium, ICP	301.30	3	0.0	0.0
Method Group 301.XX PPM		3	0.0	0.1
SODIUM AS Na₂O				
Sodium, Other	311.99	9	0.21	0.01
Method Group 311.XX PCT		9	0.21	0.01
ACID SOLUBLE ZINC				
Acid Soluble Zinc, ICP	321.30	6	55.9	3.8
Acid Soluble Zinc, Other	321.99	2	193.5	19.4

Method Group 321.XX %		8	58.1	42.0
FLUORIDE				
Volumetric	325.10	13	2.03	0.08
Distilled/Electrode	325.99	2	2.02	0.02
Method Group 325.XX PCT		15	2.03	0.08

001.99 Ammoniacal Nitrogen		
Lab		Other
34	17.96	-1.355
Std Dev	17.93	-1.000
61	17.93	-0.924
79	17.93	-0.924
61	17.88	-0.370
23	17.86	-0.123
23	17.85	0.000
24	17.85	0.000
24	17.85	0.000
Median	17.85	0.000
32	17.81	0.554
Std Dev	17.77	1.000
32	17.72	1.663
310	17.68	2.095
38	16.84	12.507

001.XX Ammoniacal Nitrogen		
Lab		Total Method
34	17.96	-1.355
Std Dev	17.93	-1.000
61	17.93	-0.924
79	17.93	-0.924
61	17.88	-0.370
23	17.86	-0.123
23	17.85	0.000
24	17.85	0.000
24	17.85	0.000
Median	17.85	0.000
32	17.81	0.554
Std Dev	17.77	1.000
32	17.72	1.663
310	17.68	2.095
38	16.84	12.507

010.11 Total Nitrogen		
Lab		Modified Comprehensive
219	18.00	-2.233
Std Dev	17.95	-1.000
43	17.92	0.000
Median	17.92	0.000
43	17.91	0.447

010.12 Total Nitrogen		
Lab		Salicylic
107	18.17	0.000
Median	18.17	0.000

010.60 Total Nitrogen		
Lab		Combustion
47	18.64	-5.882
49	18.22	-1.897
31	18.14	-1.186
Std Dev	18.12	-1.000
42	18.12	-0.996
80	18.10	-0.806
14	18.05	-0.332
66	18.05	-0.332
14	18.04	-0.190
24	18.02	-0.047
Median	18.02	0.000
110	18.01	0.047
9	17.99	0.285
137	17.96	0.569
24	17.95	0.617
219	17.95	0.664
99	17.94	0.712
Std Dev	17.91	1.000
63	17.89	1.186
77	17.80	2.040
103	17.60	3.937

010.99 Total Nitrogen		
Lab		Other
32	17.95	-1.340
Std Dev	17.94	-1.000
Median	17.94	0.000
Std Dev	17.94	1.000
32	17.94	1.340

010.XX Total Nitrogen		
Lab		Total Method
47	18.64	-7.056
49	18.22	-2.461
107	18.17	-1.914
31	18.14	-1.641
42	18.12	-1.422

80	18.10	-1.203
Std Dev	18.08	-1.000
14	18.05	-0.656
66	18.05	-0.656
14	18.04	-0.492
24	18.02	-0.328
110	18.01	-0.219
219	18.00	-0.055
Median	17.99	0.000
9	17.99	0.055
137	17.96	0.383
24	17.95	0.438
32	17.95	0.492
219	17.95	0.492
32	17.94	0.547
99	17.94	0.547
43	17.92	0.766
43	17.91	0.930
Std Dev	17.90	1.000
63	17.89	1.094
77	17.80	2.078
103	17.60	4.266

020.10 Total Phosphate		
Lab		Gravimetric Quimociac
219	46.67	0.000
Median	46.67	0.000

020.20 Total Phosphate		
Lab		Spectrometric
99	47.03	-5.163
9	46.75	-2.995
14	46.63	-2.010
14	46.61	-1.892
Std Dev	46.50	-1.000
79	46.44	-0.512
31	46.43	-0.473
24	46.40	-0.236
61	46.40	-0.197
24	46.38	-0.079
34	46.38	-0.079
Median	46.37	0.000
310	46.36	0.079
43	46.35	0.158

110	46.31	0.512
32	46.29	0.670
61	46.28	0.709
Std Dev	46.24	1.000
23	46.21	1.301
23	46.20	1.379
43	46.12	2.010
32	45.95	3.350
38	42.95	26.997

020.40 Total Phosphate		
Lab		Automated
219	46.49	-1.340
Std Dev	46.39	-1.000
Median	46.13	0.000
Std Dev	45.86	1.000
137	45.77	1.340

020.XX Total Phosphate		
Lab		Total Method
99	47.03	-3.974
9	46.75	-2.280
219	46.67	-1.756
14	46.63	-1.509
14	46.61	-1.417
Std Dev	46.54	-1.000
219	46.49	-0.647
79	46.44	-0.339
31	46.43	-0.308
24	46.40	-0.123
61	46.40	-0.092
24	46.38	0.000
34	46.38	0.000
Median	46.38	0.000
310	46.36	0.123
43	46.35	0.185
110	46.31	0.462
32	46.29	0.585
61	46.28	0.616
Std Dev	46.22	1.000
23	46.21	1.078
23	46.20	1.140
43	46.12	1.633
32	45.95	2.680

137	45.77	3.789
38	42.95	21.163
030.20 Insoluble Phosphate Spectrometric		
61	0.18	-8.423
Std Dev	0.08	-1.000
23	0.08	-0.383
23	0.07	0.000
79	0.07	0.000
Median	0.07	0.000
61	0.06	0.766
Std Dev	0.06	1.000
24	0.05	1.531
24	0.04	2.297
030.30 Insoluble Phosphate Alka. Quimociac		
31	0.07	0.000
Median	0.07	0.000
030.40 Insoluble Phosphate Automated		
9	0.17	-1.340
Std Dev	0.16	-1.000
Median	0.14	0.000
Std Dev	0.12	1.000
34	0.11	1.340
030.99 Insoluble Phosphate Other		
32	0.05	0.000
32	0.05	0.000
Median	0.05	0.000
030.XX Insoluble Phosphate Total Method		
61	0.18	-4.467
9	0.17	-3.871
34	0.11	-1.687
Std Dev	0.09	-1.000
23	0.08	-0.298
23	0.07	-0.099
79	0.07	-0.099

Median	0.07	0.000
31	0.07	0.099
61	0.06	0.298
24	0.05	0.695
32	0.05	0.695
32	0.05	0.695
Std Dev	0.04	1.000
24	0.04	1.092
040.20 Indirect Available Phosphate Spectrometric		
9	46.59	-2.189
Std Dev	46.45	-1.000
31	46.37	-0.223
79	46.37	-0.223
24	46.36	-0.179
24	46.34	0.000
Median	46.34	0.000
Std Dev	46.23	1.000
61	46.22	1.072
61	46.22	1.117
23	46.14	1.831
23	46.12	1.965
040.99 Indirect Available Phosphate Other		
34	46.26	0.000
Median	46.26	0.000
040.XX Indirect Available Phosphate Total Method		
9	46.59	-2.589
Std Dev	46.41	-1.000
31	46.37	-0.591
79	46.37	-0.591
24	46.36	-0.545
24	46.34	-0.363
Median	46.30	0.000
34	46.26	0.363
61	46.22	0.727
61	46.22	0.772
Std Dev	46.19	1.000
23	46.14	1.499
23	46.12	1.635

041.10 Direct Available Phosphate Gravimetric Quimociac		
107	46.63	-1.340
Std Dev	46.59	-1.000
Median	46.46	0.000
Std Dev	46.33	1.000
219	46.29	1.340
041.20 Direct Available Phosphate Spectrometric		
47	44.94	0.000
Median	44.94	0.000
041.40 Direct Available Phosphate Automated		
49	45.56	-1.340
Std Dev	45.53	-1.000
Median	45.45	0.000
Std Dev	45.36	1.000
103	45.34	1.340
041.50 Direct Available Phosphate ICP		
63	47.62	-4.883
Std Dev	46.30	-1.000
66	45.97	-0.022
Median	45.96	0.000
80	45.95	0.022
47	45.84	0.345
041.60 Direct Available Phosphate EDTA Extract		
29	46.92	-0.906
77	46.69	-0.490
Median	46.41	0.000
219	46.13	0.490
Std Dev	45.83	1.000
137	45.54	1.514
041.XX Direct Available Phosphate Total Method		
63	47.62	-2.073
29	46.92	-1.200

Std Dev	46.76	-1.000
77	46.69	-0.902
107	46.63	-0.833
219	46.29	-0.407
219	46.13	-0.200
66	45.97	0.000
Median	45.97	0.000
80	45.95	0.019
47	45.84	0.157
49	45.56	0.507
137	45.54	0.532
103	45.34	0.789
Std Dev	45.17	1.000
47	44.94	1.290
048.20 Water Soluble Phosphate Spectrometric		
79	42.54	-2.341
9	42.38	-1.386
Std Dev	42.32	-1.000
31	42.26	-0.647
23	42.26	-0.616
14	42.21	-0.339
14	42.16	0.000
Median	42.16	0.000
23	42.15	0.062
61	42.05	0.647
24	42.03	0.770
Std Dev	41.99	1.000
24	41.91	1.509
61	41.82	2.095
048.99 Water Soluble Phosphate Other		
34	42.12	-2.257
Std Dev	41.99	-1.000
32	41.88	0.000
Median	41.88	0.000
32	41.84	0.423
048.XX Water Soluble Phosphate Total Method		
79	42.54	-1.776
9	42.38	-1.092

Std Dev	42.36	-1.000
31	42.26	-0.562
23	42.26	-0.540
14	42.21	-0.342
14	42.16	-0.099
23	42.15	-0.055
Median	42.13	0.000
34	42.12	0.055
61	42.05	0.364
24	42.03	0.452
24	41.91	0.982
Std Dev	41.91	1.000
32	41.88	1.114
32	41.84	1.312
61	41.82	1.401

050.50	%K ₂ O	Soluble Potash
Lab		ICP(Oxalate)
99	0.17	-2.680
Std Dev	0.16	-1.000
23	0.15	0.000
23	0.15	0.000
Median	0.15	0.000

050.51	%K ₂ O	Soluble Potash
Lab		ICP(Citrate)
137	0.12	0.000
Median	0.12	0.000

050.99	%K ₂ O	Soluble Potash
Lab		Other
80	0.50	-68.218
61	0.16	-1.949
Std Dev	0.16	-1.000
61	0.16	-0.975
24	0.15	0.000
24	0.15	0.000
31	0.15	0.000
Median	0.15	0.000
43	0.15	0.487
43	0.15	0.682

050.XX	%K ₂ O	Soluble Potash
Lab		Total Method

80	0.50	-68.218
99	0.17	-3.898
61	0.16	-1.949
Std Dev	0.16	-1.000
61	0.16	-0.975
23	0.15	0.000
23	0.15	0.000
24	0.15	0.000
24	0.15	0.000
31	0.15	0.000
Median	0.15	0.000
43	0.15	0.487
43	0.15	0.682
Std Dev	0.14	1.000
137	0.12	5.847

060.00		Free Water
Lab		Vacuum Oven
61	3.71	-15.254
61	3.52	-13.601
31	2.16	-1.407
Std Dev	2.11	-1.000
24	2.08	-0.737
23	2.01	-0.112
24	2.00	-0.022
Median	2.00	0.000
32	2.00	0.022
32	1.98	0.156
23	1.95	0.424
9	1.95	0.469
79	1.93	0.648
Std Dev	1.89	1.000
34	1.83	1.496

060.20		Free Water
Lab		Karl Fisher
310	1.37	0.000
Median	1.37	0.000

060.99		Free Water
Lab		Other
14	1.78	-1.340
Std Dev	1.77	-1.000
Median	1.75	0.000

Std Dev	1.74	1.000
14	1.73	1.340

060.XX		Free Water
Lab		Total Method
61	3.71	-13.800
61	3.52	-12.320
31	2.16	-1.400
Std Dev	2.11	-1.000
24	2.08	-0.800
23	2.01	-0.240
24	2.00	-0.160
32	2.00	-0.120
32	1.98	0.000
Median	1.98	0.000
23	1.95	0.240
9	1.95	0.280
79	1.93	0.440
Std Dev	1.86	1.000
34	1.83	1.200
14	1.78	1.640
14	1.73	2.000
310	1.37	4.880

101.30	%CaO	Acid Soluble Calcium
Lab		ICP
32	0.38	-3.917
32	0.34	-2.268
24	0.32	-1.443
Std Dev	0.31	-1.000
61	0.31	-0.825
61	0.30	-0.618
24	0.29	-0.206
34	0.29	-0.206
9	0.29	0.000
Median	0.29	0.000
14	0.28	0.206
23	0.28	0.206
14	0.27	0.618
23	0.27	0.618
31	0.27	0.639
43	0.26	0.990
43	0.26	0.990

101.XX	%CaO	Acid Soluble Calcium
Lab		Total Method
32	0.38	-3.917
32	0.34	-2.268
24	0.32	-1.443
Std Dev	0.31	-1.000
61	0.31	-0.825
61	0.30	-0.618
24	0.29	-0.206
34	0.29	-0.206
9	0.29	0.000
Median	0.29	0.000
14	0.28	0.206
23	0.28	0.206
14	0.27	0.618
23	0.27	0.618
31	0.27	0.639
43	0.26	0.990
43	0.26	0.990

121.30	%MgO	Acid Soluble Magnesium
Lab		ICP
24	0.89	-0.699
24	0.89	-0.699
32	0.89	-0.699
32	0.89	-0.699
23	0.88	-0.466
23	0.88	-0.466
34	0.88	-0.466
61	0.86	0.000
Median	0.86	0.000
61	0.86	0.117
9	0.85	0.233
14	0.83	0.699
14	0.83	0.816
Std Dev	0.82	1.000
31	0.81	1.165
43	0.74	2.913
43	0.74	2.913

121.XX	%MgO	Acid Soluble Magnesium
Lab		Total Method
24	0.89	-0.699
24	0.89	-0.699

32	0.89	-0.699
32	0.89	-0.699
23	0.88	-0.466
23	0.88	-0.466
34	0.88	-0.466
61	0.86	0.000
Median	0.86	0.000
61	0.86	0.117
9	0.85	0.233
14	0.83	0.699
14	0.83	0.816
Std Dev	0.82	1.000
31	0.81	1.165
43	0.74	2.913
43	0.74	2.913

144.70 Sulfur Spectrometric		
Lab		
14	1.58	-1.340
Std Dev	1.58	-1.000
Median	1.57	0.000
Std Dev	1.57	1.000
14	1.57	1.340

144.99 Sulfate Sulfur (S)		
Lab		Other
32	1.63	-2.948
24	1.60	-1.340
Std Dev	1.59	-1.000
24	1.59	-0.804
34	1.59	-0.804
23	1.58	0.000
Median	1.58	0.000
23	1.57	0.268
9	1.57	0.536
Std Dev	1.56	1.000
32	1.52	2.948
31	1.50	4.020

144.XX Sulfate Sulfur (S)		
Lab		Total Method
32	1.63	-2.948
24	1.60	-1.340
Std Dev	1.59	-1.000

24	1.59	-0.804
34	1.59	-0.804
14	1.58	-0.268
23	1.58	0.000
Median	1.58	0.000
23	1.57	0.268
9	1.57	0.536
14	1.57	0.536
Std Dev	1.56	1.000
32	1.52	2.948
31	1.50	4.020

145.99 Total Sulfur (S)		
Lab		Other
43	1.57	-1.340
Std Dev	1.56	-1.000
Median	1.56	0.000
Std Dev	1.56	1.000
43	1.56	1.340

145.XX Total Sulfur (S)		
Lab		Total Method
43	1.57	-1.340
Std Dev	1.56	-1.000
Median	1.56	0.000
Std Dev	1.56	1.000
43	1.56	1.340

151.30 Total Arsenic		
Lab		ICP
43	19.15	-1.105
43	18.90	-1.066
Std Dev	18.48	-1.000
31	12.45	-0.055
24	12.10	0.000
Median	12.10	0.000
18	11.70	0.063
Std Dev	5.72	1.000
61	2.55	1.497
61	2.50	1.505

151.99 Total Arsenic		
Lab		Other
275	12.40	-1.340

Std Dev	12.31	-1.000
Median	12.05	0.000
Std Dev	11.79	1.000
275	11.70	1.340

151.XX Total Arsenic		
Lab		Total Method
43	19.15	-12.596
43	18.90	-12.149
Std Dev	12.66	-1.000
31	12.45	-0.625
275	12.40	-0.536
24	12.10	0.000
Median	12.10	0.000
18	11.70	0.715
275	11.70	0.715
Std Dev	11.54	1.000
61	2.55	17.063
61	2.50	17.152

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

181.30 Total Cadmium		
Lab	PPM	ICP
275	3.70	-0.706
18	3.65	-0.562
275	3.60	-0.418
43	3.46	-0.014
Median	3.46	0.000
31	3.45	0.014
43	3.18	0.792
Std Dev	3.11	1.000
61	3.05	1.167
61	2.90	1.599

181.99 Total Cadmium		
Lab		Other
24	3.26	0.000
Median	3.26	0.000

181.XX Total Cadmium		
Lab	PPM	Total Method
275	3.70	-0.798
18	3.65	-0.638
275	3.60	-0.479
43	3.46	-0.032
31	3.45	0.000
Median	3.45	0.000
24	3.26	0.606
43	3.18	0.861
Std Dev	3.14	1.000
61	3.05	1.276
61	2.90	1.755

190.00 Aluminum		
Lab	%Al ₂ O ₃	ICP
14	1.56	-1.537
14	1.56	-1.458
9	1.54	-1.143
32	1.54	-1.143
Std Dev	1.53	-1.000
24	1.50	-0.591
32	1.48	-0.276
23	1.47	-0.039
Median	1.46	0.000
23	1.46	0.039
24	1.46	0.039
34	1.46	0.039
61	1.44	0.434
61	1.43	0.512
Std Dev	1.40	1.000
43	1.39	1.222
43	1.39	1.222

190.99 Aluminum		
Lab	%Al ₂ O ₃	Atomic Absorption
31	1.50	0.000
Median	1.50	0.000

190.XX Lab	%Al ₂ O ₃	Aluminum Total Method
14	1.56	-1.819
14	1.56	-1.723
9	1.54	-1.340
32	1.54	-1.340
Std Dev	1.52	-1.000
24	1.50	-0.670
31	1.50	-0.670
32	1.48	-0.287
23	1.47	0.000
Median	1.47	0.000
23	1.46	0.096
24	1.46	0.096
34	1.46	0.096
61	1.44	0.574
61	1.43	0.670
Std Dev	1.41	1.000
43	1.39	1.531
43	1.39	1.531

191.30 Lab	Total Chromium ICP
18	82.20 -9.291
61	78.00 -1.787
Std Dev	77.56 -1.000
43	77.00 0.000
43	77.00 0.000
61	77.00 0.000
Median	77.00 0.000
Std Dev	76.44 1.000
31	74.30 4.824

191.99 Lab	PPM	Total Chromium Other
24	71.90	0.000
Median	71.90	0.000

191.XX Lab	PPM	Total Chromium Total Method
18	82.20	-3.766
Std Dev	78.38	-1.000
61	78.00	-0.724
43	77.00	0.000

43	77.00	0.000
61	77.00	0.000
Median	77.00	0.000
Std Dev	75.62	1.000
31	74.30	1.956
24	71.90	3.694

202.30 Lab	PPM	Acid Soluble Cobalt ICP
61		

202.99 Lab	Acid Soluble Cobalt Other
24	2.42 0.000
Median	2.42 0.000

202.XX Lab	PPM	Acid Soluble Cobalt Total Method
61	<0.7	0.000
61	<0.7	0.000
43	3.00	-0.818
43	3.00	-0.818
24	2.42	0.000
Median	2.42	0.000
18	2.05	0.522
31	2.03	0.557

221.30 Lab	PPM	Acid Soluble Copper ICP
61	<0.4	0.000
61	<0.4	0.000
43	1.00	0.000
43	1.00	0.000
Median	1.00	0.000
18	0.80	2.680

221.99 Lab	Acid Soluble Copper Other
24	0.60 0.000
Median	0.60 0.000

221.XX Lab	PPM	Acid Soluble Copper Total Method
61	<0.4	0.000
61	<0.4	0.000

43	1.00	-0.536
43	1.00	-0.536
Median	0.90	0.000
18	0.80	0.536
24	0.60	1.608

241.30 Lab	%Fe ₂ O ₃	Acid Soluble Iron ICP
32	1.37	-2.522
32	1.36	-2.207
24	1.33	-1.261
24	1.33	-1.261
Std Dev	1.32	-1.000
34	1.32	-0.946
14	1.29	0.000
14	1.29	0.000
23	1.29	0.000
61	1.29	0.000
Median	1.29	0.000
9	1.29	0.158
23	1.29	0.158
61	1.28	0.315
43	1.27	0.788
43	1.27	0.788
Std Dev	1.26	1.000
31	1.25	1.419

241.XX Lab	%Fe ₂ O ₃	Acid Soluble Iron Total Method
32	1.37	-2.522
32	1.36	-2.207
24	1.33	-1.261
24	1.33	-1.261
Std Dev	1.32	-1.000
34	1.32	-0.946
14	1.29	0.000
14	1.29	0.000
23	1.29	0.000
61	1.29	0.000
Median	1.29	0.000
9	1.29	0.158
23	1.29	0.158
61	1.28	0.315
43	1.27	0.788

43	1.27	0.788
Std Dev	1.26	1.000
31	1.25	1.419

251.30 Lab	PPM	Total Lead ICP
61	<1.8	0.000
61	<1.8	0.000
43	4.95	-2.198
Std Dev	3.40	-1.000
18	2.65	-0.424
Median	2.10	0.000
43	1.55	0.424
31	1.30	0.617

251.99 Lab	Total Lead Other
24	1.06 0.000
Median	1.06 0.000

251.XX Lab	PPM	Total Lead Total Method
61	<1.8	0.000
61	<1.8	0.000
43	4.95	-3.375
18	2.65	-1.092
Std Dev	2.56	-1.000
43	1.55	0.000
Median	1.55	0.000
31	1.30	0.248
24	1.06	0.486

261.30 Lab	Acid Soluble Manganese ICP
18	309.50 -1.340
Std Dev	309.14 -1.000
Median	308.10 0.000
Std Dev	307.06 1.000
31	306.70 1.340

261.99 Lab	PPM	Acid Soluble Manganese Other
43	357.00	-0.930
43	355.50	-0.897

24	315.00	0.000
Median	315.00	0.000
61	295.00	0.443
Std Dev	269.85	1.000
61	269.50	1.008

261.XX Acid Soluble Manganese		
Lab	PPM	Total Method
43	357.00	-1.850
43	355.50	-1.792
Std Dev	335.17	-1.000
24	315.00	-0.214
18	309.50	0.000
Median	309.50	0.000
31	306.70	0.109
61	295.00	0.565
Std Dev	283.83	1.000
61	269.50	1.558

281.00 Total Mercury		
Lab	PPM	Atomic Absorbtion
275	0.00	0.000
Median	0.00	0.000

281.30 Total Mercury		
Lab	PPM	ICP
24	0.18	0.000
Median	0.18	0.000

281.XX Total Mercury		
Lab	PPM	Total Method
24	0.18	-1.340
Std Dev	0.16	-1.000
Median	0.09	0.000
Std Dev	0.03	1.000
275	0.00	1.340

289.30 Total Molybdenum		
Lab	PPM	ICP
43		

289.99 Total Molybdenum		
Lab	PPM	Other
24	13.40	0.000
Median	13.40	0.000

289.XX Total Molybdenum		
Lab	PPM	Total Method
24	13.40	-2.573
Std Dev	11.93	-1.000
43	11.85	-0.911
43	11.75	-0.804
61	11.00	0.000
Median	11.00	0.000
31	10.75	0.268
18	10.35	0.697
Std Dev	10.07	1.000
61	10.00	1.072

291.30 Total Nickel		
Lab		ICP
61		

291.99 Total Nickel		
Lab	PPM	Other
24	13.30	-1.340
Std Dev	12.93	-1.000
Median	11.83	0.000
Std Dev	10.72	1.000
18	10.35	1.340

291.XX Total Nickel		
Lab	PPM	Total Method
24	13.30	-1.700
Std Dev	12.76	-1.000
61	12.50	-0.654
61	12.50	-0.654
43	12.00	0.000
43	12.00	0.000
Median	12.00	0.000
Std Dev	11.24	1.000
31	10.95	1.373
18	10.35	2.157

301.30 Total Selenium		
Lab	PPM	ICP
24	0.14	-2.568
Std Dev	0.07	-1.000
61	0.03	0.000
Median	0.03	0.000

61	0.02	0.112
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301.XX Total Selenium		
Lab	PPM	Total Method
24	0.14	-2.568
Std Dev	0.07	-1.000
61	0.03	0.000
Median	0.03	0.000
61	0.02	0.112

311.99 Sodium		
Lab	%Na ₂ O	Other
24	0.22	-0.893
23	0.22	-0.447
23	0.22	-0.447
61	0.22	-0.447
24	0.21	0.000
61	0.21	0.000
Median	0.21	0.000
31	0.20	0.893
Std Dev	0.20	1.000
43	0.17	3.261
43	0.17	3.350

311.XX Sodium		
Lab	%Na ₂ O	Total Method
24	0.22	-0.893
23	0.22	-0.447
23	0.22	-0.447
61	0.22	-0.447
24	0.21	0.000
61	0.21	0.000
Median	0.21	0.000
31	0.20	0.893
Std Dev	0.20	1.000
43	0.17	3.261
43	0.17	3.350

321.30 Acid Soluble Zinc		
Lab	PPM	ICP
31	77.50	-5.724
Std Dev	59.65	-1.000
24	58.50	-0.695
18	57.75	-0.496

Median	55.88	0.000
61	54.00	0.496
61	53.00	0.761
Std Dev	52.10	1.000
110	1.03	14.517

321.99 Acid Soluble Zinc		
Lab		Other
43	219.50	-1.340
Std Dev	212.90	-1.000
Median	193.50	0.000
Std Dev	174.10	1.000
43	167.50	1.340

321.XX Acid Soluble Zinc		
Lab	PPM	Total Method
43	219.50	-4.676
43	167.50	-3.169
Std Dev	92.64	-1.000
31	77.50	-0.561
24	58.50	-0.011
Median	58.13	0.000
18	57.75	0.011
61	54.00	0.120
61	53.00	0.148
Std Dev	23.61	1.000
110	1.03	1.654

325.10 Fluoride		
Lab	%	Electrode
32	2.21	-2.229
23	2.10	-0.828
275	2.07	-0.536
24	2.06	-0.402
32	2.05	-0.280
24	2.04	-0.158
275	2.03	0.000
Median	2.03	0.000
23	2.02	0.085
34	1.99	0.451
31	1.95	0.938
14	1.70	3.983
14	1.70	4.044
9	1.65	4.593

325.99		Fluoride
Lab	%	Other
61	2.05	-1.340
Median	2.02	0.000
61	1.99	1.340

325.XX		Fluoride
Lab	%	Total Method
32	2.21	-2.885
23	2.10	-1.072
275	2.07	-0.694
24	2.06	-0.520
32	2.05	-0.363
61	2.05	-0.284
24	2.04	-0.205
275	2.03	0.000
Median	2.03	0.000
23	2.02	0.110
34	1.99	0.583
61	1.99	0.583
31	1.95	1.214
14	1.70	5.155
14	1.70	5.234
9	1.65	5.943