

AFPC

Sample

2015-09

Grade

18-46-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	1	17.66	0.00
Ammoniacal Nitrogen, Other		001.99	12	18.15	0.19
Method Group 001.XX PCT			13	18.10	0.25
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	3	17.85	0.19
Total Nitrogen, Salicylic	955.04d	010.12	1	18.34	0.00
Total Nitrogen, Combustion	993.13	010.60	17	18.22	0.18
Total Nitrogen, Other		010.99	5	18.40	0.25
Method Group 010.XX PCT			26	18.24	0.26
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	1	46.28	0.00
Total Phosphate, Spectrometric	978.02	020.20	21	46.42	0.15
Total Phosphate, ICP	970.03	020.40	1	46.29	0.00
Total Phosphate, ICP, Lithium	970.02	020.50	1	46.05	0.00
Method Group 020.XX PCT			24	46.41	0.20
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	7	0.04	0.03
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	1	0.10	0.00
Insoluble Phosphate, Automated	978.01	030.40	1	0.04	0.00
Insoluble Phosphate, Other		030.99	2	0.05	0.01
Method Group 030.XX PCT			11	0.04	0.04
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Spectrometric	960.02	040.20	8	46.30	0.10
Indirect Available Phosphate, Other		040.99	3	46.54	0.05
Method Group 040.XX PCT			11	46.37	0.22
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	2	46.98	0.27
Direct Available Phosphate, Spectrometric	960.03D	041.20	3	46.23	0.20
Direct Available Phosphate, Automated	978.01	041.40	3	45.42	0.41
Direct Available Phosphate, ICP		041.50	2	45.37	0.84
Direct Available Phosphate, EDTA Extract	993.01	041.60	3	46.37	0.44
Method Group 041.XX PCT			13	46.23	0.60
POLYPHOSPHATE (% of total)					
Polyphosphate, Other		043.99	1	1.03	0.00
Method Group 043.XX PCT			1	1.03	0.00
WATER SOLUBLE PHOSPHATE					
Water Soluble Phosphate, Spectrometric	970.01	048.20	14	43.46	0.41
Water Soluble Phosphate, Other		048.99	4	43.32	0.70
Method Group 048.XX PCT			18	43.46	0.59
SOLUBLE POTASH AS K₂O					
Soluble Potash, ICP(Oxalate)		050.50	2	0.18	0.00
Soluble Potash, Other		050.99	9	0.18	0.02
Method Group 050.XX PCT			11	0.18	0.01
FREE WATER					
Free Water, Vacuum Oven	965.08B	060.00	13	1.71	0.22
Free Water, Other		060.99	4	1.55	0.10
Method Group 060.XX PCT			17	1.69	0.19
ACID SOLUBLE CALCIUM AS CaO					
Acid Soluble Calcium, Atomic Absorption	945.04	101.00	1	0.38	0.00
Acid Soluble Calcium, ICP		101.30	17	0.55	0.02
Method Group 101.XX PCT			18	0.54	0.03
ACID SOLUBLE MAGNESIUM AS MgO					
Acid Soluble Magnesium, Atomic Absorption	984.01	121.00	1	1.49	0.00
Acid Soluble Magnesium, ICP		121.30	16	1.51	0.11
Method Group 121.XX PCT			17	1.49	0.13

SULFATE SULFUR (S)					
Sulfur, Gravimetric	980.02(a)	144.01	1	2.15	0.00
Sulfur, Spectrometric		144.70	2	2.10	0.01
Sulfur, Other		144.99	12	2.12	0.03
Method Group 144.XX PCT			15	2.12	0.04
TOTAL SULFUR (S)					
Sulfur, Other		145.99	3	2.1	0.0
Method Group 145.XX PCT			3	2.1	0.0
TOTAL ARSENIC					
Total Arsenic, ICP	980.02(b)	151.02	6	3	1.1
Method Group 151.XX PPM			6	3	1.4
ACID SOLUBLE BORON					
Acid Soluble Boron, Other		165.99	1	77	0.0
Method Group 165.XX PPM			1	77	0.0
TOTAL CADMIUM					
Total Cadmium, ICP		181.30	5	28.0	3.2
Total Cadmium, Other		181.99	1	32.8	0.0
Method Group 181.XX PPM			6	29.9	4.5
ALUMINUM AS Al₂O₃					
ICP, %			16	0.46	0.02
Water Soluble Chlorine, Other, %		190.99	1	1.29	0.00
Method Group 190.XX PCT			17	0.46	0.03
TOTAL CHROMIUM					
Total Chromium, ICP		191.30	6	231	7.5
Total Chromium, Other		191.99	1	226	0.0
Method Group 191.XX PPM			7	229	8.3
ACID SOLUBLE COBALT					
Acid Soluble Cobalt, ICP		202.30	4	2	0.0
Acid Soluble Cobalt, Other		202.99	1	1	0.0
Method Group 202.XX PPM			5	2	0.1
ACID SOLUBLE COPPER					
Acid Soluble Copper, ICP		221.30	4	1.0	0.2
Acid Soluble Copper, Other		221.99	1	0.0	0.0
Method Group 221.XX PPM			5	1.0	0.1
ACID SOLUBLE IRON AS Fe₂O₃					
Acid Soluble Iron, ICP		241.30	15	0.66	0.02
Method Group 241.XX PCT			16	0.66	0.02
TOTAL LEAD					
Total Lead, ICP		251.30	5	1	0.0
Total Lead, Other		251.99	1	0.0	0.0
Method Group 251.XX PPM			6	1	0.7
ACID SOLUBLE MANGANESE					
Acid Soluble Manganese, ICP	972.02a	261.30	3	46	90.7
Acid Soluble Manganese, Other		261.99	5	51	1.5
Method Group 261.XX PPM			8	50	4.5
TOTAL MERCURY					
Total Mercury, ICP		281.30	1	0.00	0.00
Method Group 281.XX PPM			1	0.45	0.00
TOTAL MOLYBDENUM					
Total Molybdenum, ICP		289.30	5	3	0.4
Total Molybdenum, Other		289.99	1	3	0.0
Method Group 289.XX PPM			6	3	0.9
TOTAL NICKEL					
Total Nickel, ICP		291.30	3	16.0	0.4
Total Nickel, icp		291.99	2	18.8	2.4
Method Group 291.XX PPM			5	16.0	0.9
TOTAL SELENIUM					
Total Selenium, ICP		301.30	2	1.1	0.3
Method Group 301.XX PPM			2	1.1	0.4
SODIUM AS Na₂O					
Sodium, Other		311.99	8	0.31	0.02

Method Group 311.XX PCT			8	0.31	0.02
ACID SOLUBLE ZINC					
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	1	437.2	0.0
Acid Soluble Zinc, ICP		321.30	4	455.8	11.8
Acid Soluble Zinc, Other		321.99	2	435.8	2.4
Method Group 321.XX %			7	439.0	19.0
FLUORIDE					
Volumetric		325.10	13	1.21	0.04
Distilled/Electrode		325.99	2	1.25	0.01
Method Group 325.XX PCT			15	1.22	0.05

001.10 Ammoniacal Nitrogen		
Lab	MgO distillation	
31	17.66	0.000
Median	17.66	0.000

001.99 Ammoniacal Nitrogen		
Lab	Other	
275	18.30	-0.797
34	18.29	-0.745
24	18.28	-0.693
24	18.28	-0.693
275	18.22	-0.353
61	18.20	-0.248
Median	18.15	0.000
61	18.10	0.248
79	18.08	0.353
32	18.03	0.614
32	18.01	0.745
38	17.98	0.879
310	17.97	0.928

001.XX Ammoniacal Nitrogen		
Lab	Total Method	
275	18.30	-0.975
34	18.29	-0.926
24	18.28	-0.877
24	18.28	-0.877
275	18.22	-0.560
61	18.20	-0.463
61	18.10	0.000
Median	18.10	0.000
79	18.08	0.097
32	18.03	0.341
32	18.01	0.463
38	17.98	0.587
310	17.97	0.633
Std Dev	17.89	1.000
31	17.66	2.144

010.11 Total Nitrogen		
Lab	Modified Comprehensive	
219	18.33	-2.547
Std Dev	18.03	-1.000
43	17.85	0.000

Median	17.85	0.000
43	17.82	0.133

010.12 Total Nitrogen		
Lab	Salicylic	
107	18.34	0.000
Median	18.34	0.000

010.60 Total Nitrogen		
Lab	Combustion	
49	18.61	-2.200
80	18.55	-1.862
110	18.52	-1.693
24	18.42	-1.128
47	18.40	-1.030
Std Dev	18.40	-1.000
24	18.30	-0.451
9	18.28	-0.339
79	18.26	-0.197
315	18.22	0.000
Median	18.22	0.000
219	18.18	0.226
14	18.18	0.254
29	18.17	0.282
14	18.17	0.310
77	18.12	0.564
63	18.11	0.621
Std Dev	18.04	1.000
111	17.86	2.031
103	17.83	2.200

010.99 Total Nitrogen		
Lab	Other	
32	18.57	-0.650
32	18.47	-0.256
34	18.40	0.000
Median	18.40	0.000
Std Dev	18.15	1.000
23	18.13	1.084
23	18.07	1.301

010.XX Total Nitrogen		
Lab	Total Method	
49	18.61	-1.779

32	18.57	-1.564
80	18.55	-1.492
110	18.52	-1.349
32	18.47	-1.086
Std Dev	18.45	-1.000
24	18.42	-0.871
47	18.40	-0.788
34	18.40	-0.776
107	18.34	-0.489
219	18.33	-0.418
24	18.30	-0.298
9	18.28	-0.203
79	18.26	-0.084
Median	18.24	0.000
315	18.22	0.084
219	18.18	0.275
14	18.18	0.298
29	18.17	0.322
14	18.17	0.346
23	18.13	0.537
77	18.12	0.561
63	18.11	0.609
23	18.07	0.800
Std Dev	18.03	1.000
111	17.86	1.803
43	17.85	1.874
103	17.83	1.946
43	17.82	1.994

020.10 Total Phosphate		
Lab	Gravimetric Quimociac	
310	46.28	0.000
Median	46.28	0.000

020.20 Total Phosphate		
Lab	Spectrometric	
9	46.88	-3.040
24	46.67	-1.667
32	46.63	-1.405
34	46.59	-1.144
Std Dev	46.57	-1.000
275	46.54	-0.817
32	46.53	-0.719
43	46.52	-0.654

61	46.51	-0.621
110	46.50	-0.523
43	46.44	-0.131
31	46.42	0.000
275	46.42	0.000
Median	46.42	0.000
24	46.41	0.065
14	46.39	0.163
14	46.37	0.327
23	46.32	0.621
79	46.31	0.719
23	46.30	0.752
61	46.27	0.948
Std Dev	46.26	1.000
111	46.03	2.517
315	45.95	3.040

020.40 Total Phosphate		
Lab	Automated	
219	46.29	0.000
Median	46.29	0.000

020.50 Total Phosphate		
Lab	ICP	
111	46.05	0.000
Median	46.05	0.000

020.XX Total Phosphate		
Lab	Total Method	
9	46.88	-2.847
24	46.67	-1.575
32	46.63	-1.332
34	46.59	-1.090
Std Dev	46.58	-1.000
275	46.54	-0.787
32	46.53	-0.696
43	46.52	-0.636
61	46.51	-0.606
110	46.50	-0.515
43	46.44	-0.151
31	46.42	-0.030
275	46.42	-0.030
Median	46.41	0.000
24	46.41	0.030

14	46.39	0.121
14	46.37	0.273
23	46.32	0.545
79	46.31	0.636
23	46.30	0.666
219	46.29	0.757
310	46.28	0.787
61	46.27	0.848
Std Dev	46.24	1.000
111	46.05	2.180
111	46.03	2.301
315	45.95	2.786

030.20 Insoluble Phosphate		
Lab		Spectrometric
61	0.11	-2.680
61	0.10	-2.106
Std Dev	0.07	-1.000
23	0.05	-0.191
23	0.04	0.000
24	0.04	0.000
Median	0.04	0.000
24	0.03	0.383
79	0.02	0.766

030.30 Insoluble Phosphate		
Lab		Alka. Quimociac
31	0.10	0.000
Median	0.10	0.000

030.40 Insoluble Phosphate		
Lab		Automated
34	0.04	0.000
Median	0.04	0.000

030.99 Insoluble Phosphate		
Lab		Other
32	0.07	-1.340
Std Dev	0.06	-1.000
Median	0.05	0.000
Std Dev	0.04	1.000
32	0.03	1.340

030.XX Insoluble Phosphate		
Lab		Total Method
61	0.11	-1.975
31	0.10	-1.693
61	0.10	-1.552
Std Dev	0.08	-1.000
32	0.07	-0.846
23	0.05	-0.141
23	0.04	0.000
24	0.04	0.000
34	0.04	0.000
Median	0.04	0.000
24	0.03	0.282
32	0.03	0.282
79	0.02	0.564

040.20 Indirect Available Phosphate		
Lab		Spectrometric
24	46.64	-3.547
61	46.51	-2.181
Std Dev	46.40	-1.000
24	46.37	-0.657
31	46.32	-0.184
Median	46.30	0.000
79	46.29	0.184
23	46.28	0.236
23	46.26	0.499
Std Dev	46.21	1.000
61	46.16	1.498

040.99 Indirect Available Phosphate		
Lab		Other
32	46.60	-1.109
Std Dev	46.59	-1.000
34	46.54	0.000
Median	46.54	0.000
Std Dev	46.49	1.000
32	46.46	1.571

040.XX Indirect Available Phosphate		
Lab		Total Method
24	46.64	-1.520
32	46.60	-1.299
Std Dev	46.55	-1.000

34	46.54	-0.967
61	46.51	-0.801
32	46.46	-0.497
24	46.37	0.000
Median	46.37	0.000
31	46.32	0.249
79	46.29	0.442
23	46.28	0.470
23	46.26	0.608
Std Dev	46.18	1.000
61	46.16	1.133

041.10 Direct Available Phosphate		
Lab		Gravimetric Quimociac
107	47.34	-1.340
Std Dev	47.25	-1.000
Median	46.98	0.000
Std Dev	46.71	1.000
47	46.62	1.340

041.20 Direct Available Phosphate		
Lab		Spectrometric
275	46.38	-0.739
275	46.23	0.000
Median	46.23	0.000
Std Dev	46.02	1.000
47	45.83	1.941

041.40 Direct Available Phosphate		
Lab		Automated
38	46.22	-1.957
Std Dev	45.83	-1.000
49	45.42	0.000
Median	45.42	0.000
103	45.13	0.723

041.50 Direct Available Phosphate		
Lab		ICP
63	46.49	-1.340
Std Dev	46.21	-1.000
Median	45.37	0.000
Std Dev	44.53	1.000
80	44.25	1.340

041.60 Direct Available Phosphate		
Lab		EDTA Extract
29	47.36	-2.251
Std Dev	46.81	-1.000
77	46.37	0.000
Median	46.37	0.000
219	46.18	0.429

041.XX Direct Available Phosphate		
Lab		Total Method
29	47.36	-2.308
107	47.34	-2.264
Std Dev	46.72	-1.000
47	46.62	-0.802
63	46.49	-0.538
275	46.38	-0.306
77	46.37	-0.284
275	46.23	0.000
Median	46.23	0.000
38	46.22	0.014
219	46.18	0.102
47	45.83	0.802
Std Dev	45.73	1.000
49	45.42	1.634
103	45.13	2.233
80	44.25	4.010

043.99 Polyphosphate		
Lab		Other
31	1.03	0.000
Median	1.03	0.000

043.XX Polyphosphate		
Lab		Total Method
31	1.03	0.000
Median	1.03	0.000

048.20 Water Soluble Phosphate		
Lab		Spectrometric
14	44.18	-1.753
9	44.18	-1.741
14	44.06	-1.460
Std Dev	43.87	-1.000
24	43.70	-0.580

61	43.62	-0.373
79	43.59	-0.299
61	43.48	-0.031
Median	43.46	0.000
23	43.45	0.031
24	43.45	0.043
23	43.44	0.055
Std Dev	43.05	1.000
275	43.03	1.064
275	42.97	1.212
31	41.92	3.781
111	41.80	4.074

048.99 Water Soluble Phosphate		
Lab		Other
32	43.90	-0.836
34	43.60	-0.407
Median	43.32	0.000
32	43.03	0.407
Std Dev	42.62	1.000
111	41.86	2.080

048.XX Water Soluble Phosphate		
Lab		Total Method
14	44.18	-1.477
9	44.18	-1.467
14	44.06	-1.230
Std Dev	43.95	-1.000
32	43.90	-0.901
24	43.70	-0.489
61	43.62	-0.314
34	43.60	-0.283
79	43.59	-0.252
61	43.48	-0.026
Median	43.46	0.000
23	43.45	0.026
24	43.45	0.036
23	43.44	0.046
32	43.03	0.890
275	43.03	0.896
Std Dev	42.98	1.000
275	42.97	1.021
31	41.92	3.185
111	41.86	3.299

111	41.80	3.432
050.50 Soluble Potash		
Lab	%K ₂ O	ICP(Oxalate)
23	0.18	0.000
23	0.18	0.000
Median	0.18	0.000

050.99 Soluble Potash		
Lab	%K ₂ O	Other
80	0.30	-7.333
61	0.20	-1.230
Std Dev	0.20	-1.000
43	0.18	-0.129
24	0.18	-0.009
Median	0.18	0.000
24	0.17	0.601
Std Dev	0.16	1.000
18	0.16	1.211
111	0.13	3.042
107	0.04	8.535

050.XX Soluble Potash		
Lab	%K ₂ O	Total Method
80	0.30	-10.484
61	0.20	-2.097
Std Dev	0.19	-1.000
43	0.18	-0.583
24	0.18	-0.419
43	0.18	-0.406
23	0.18	0.000
23	0.18	0.000
Median	0.18	0.000
24	0.17	0.419
Std Dev	0.16	1.000
18	0.16	1.258
111	0.13	3.774
107	0.04	11.322

060.00 Free Water		
Lab		Vacuum Oven
61	6.60	-22.595
61	6.11	-20.354

31	2.90	-5.522
111	1.94	-1.086
Std Dev	1.92	-1.000
32	1.81	-0.462
32	1.78	-0.323
23	1.71	0.000
Median	1.71	0.000
23	1.69	0.069
24	1.67	0.185
24	1.65	0.254
79	1.65	0.254
9	1.57	0.624
34	1.55	0.716

060.99 Free Water		
Lab		Other
14	1.72	-1.672
Std Dev	1.65	-1.000
275	1.60	-0.443
Median	1.55	0.000
14	1.51	0.443
Std Dev	1.45	1.000
275	1.45	1.033

060.XX Free Water		
Lab		Total Method
61	6.60	-31.299
61	6.11	-28.204
31	2.90	-7.721
111	1.94	-1.595
Std Dev	1.85	-1.000
32	1.81	-0.734
32	1.78	-0.542
14	1.72	-0.191
23	1.71	-0.096
23	1.69	0.000
Median	1.69	0.000
24	1.67	0.160
24	1.65	0.255
79	1.65	0.255
275	1.60	0.606
9	1.57	0.766
34	1.55	0.893
Std Dev	1.53	1.000

14	1.51	1.180
275	1.45	1.563

101.00 Acid Soluble Calcium		
Lab	%CaO	Atomic Absorption
219	0.38	0.000
Median	0.38	0.000

101.30 Acid Soluble Calcium		
Lab	%CaO	ICP
61	0.61	-2.565
24	0.59	-1.672
32	0.59	-1.672
32	0.58	-1.225
Std Dev	0.57	-1.000
14	0.56	-0.555
9	0.56	-0.332
14	0.56	-0.332
18	0.55	-0.108
43	0.55	0.000
Median	0.55	0.000
24	0.54	0.338
34	0.54	0.338
43	0.54	0.525
23	0.53	0.785
23	0.53	0.785
Std Dev	0.53	1.000
18	0.53	1.008
111	0.53	1.008
31	0.30	10.902

101.XX Acid Soluble Calcium		
Lab	%CaO	Total Method
61	0.61	-2.853
24	0.59	-1.921
32	0.59	-1.921
32	0.58	-1.455
Std Dev	0.57	-1.000
14	0.56	-0.756
9	0.56	-0.523
14	0.56	-0.523
18	0.55	-0.290
43	0.55	-0.177
Median	0.54	0.000

24	0.54	0.177
34	0.54	0.177
43	0.54	0.371
23	0.53	0.643
23	0.53	0.643
18	0.53	0.876
111	0.53	0.876
Std Dev	0.52	1.000
219	0.38	7.471
31	0.30	11.200

121.00	Acid Soluble Magnesium	
Lab	%MgO	Atomic Absorption
219	1.49	0.000
Median	1.49	0.000

121.30	Acid Soluble Magnesium	
Lab	%MgO	ICP
24	1.58	-0.664
32	1.58	-0.664
32	1.57	-0.576
34	1.56	-0.487
61	1.55	-0.354
23	1.54	-0.266
24	1.54	-0.266
23	1.53	-0.177
Median	1.51	0.000
9	1.49	0.177
31	1.47	0.354
18	1.46	0.443
14	1.40	0.930
Std Dev	1.39	1.000
14	1.39	1.019
43	1.35	1.418
111	1.32	1.639
43	1.31	1.728

121.XX	Acid Soluble Magnesium	
Lab	%MgO	Total Method
24	1.58	-0.864
32	1.58	-0.864
32	1.57	-0.772
34	1.56	-0.679
61	1.55	-0.541

23	1.54	-0.448
24	1.54	-0.448
23	1.53	-0.356
219	1.49	0.000
Median	1.49	0.000
9	1.49	0.014
31	1.47	0.199
18	1.46	0.291
14	1.40	0.799
14	1.39	0.892
Std Dev	1.38	1.000
43	1.35	1.308
111	1.32	1.539
43	1.31	1.631

144..01	Sulfate Sulfur (S)	
Lab	Gravimetric	
79	2.15	0.000
Median	2.15	0.000

144.70	Sulfur	
Lab	Spectrometric	
14	2.11	-1.340
Std Dev	2.10	-1.000
Median	2.10	0.000
Std Dev	2.09	1.000
14	2.09	1.340

144.99	Sulfate Sulfur (S)	
Lab	Other	
275	2.31	-6.789
275	2.28	-5.717
Std Dev	2.15	-1.000
23	2.15	-0.893
23	2.14	-0.536
32	2.13	-0.357
32	2.12	0.000
34	2.12	0.000
Median	2.12	0.000
9	2.12	0.179
24	2.10	0.715
24	2.10	0.715
Std Dev	2.09	1.000
61	2.08	1.429

31	1.04	38.771
144.XX	Sulfate Sulfur (S)	
Lab	Total Method	
275	2.31	-6.365
275	2.28	-5.360
Std Dev	2.15	-1.000
23	2.15	-0.838
79	2.15	-0.838
23	2.14	-0.502
32	2.13	-0.335
32	2.12	0.000
34	2.12	0.000
Median	2.12	0.000
9	2.12	0.167
14	2.11	0.503
24	2.10	0.670
24	2.10	0.670
Std Dev	2.09	1.000
14	2.09	1.005
61	2.08	1.340
31	1.04	36.348

145.99	Total Sulfur (S)	
Lab	Other	
43	2.17	-0.510
43	2.15	0.000
Median	2.15	0.000
Std Dev	2.11	1.000
111	2.06	2.170

145.XX	Total Sulfur (S)	
Lab	Total Method	
43	2.17	-0.510
43	2.15	0.000
Median	2.15	0.000
Std Dev	2.11	1.000
111	2.06	2.170

151.30	Total Arsenic	
Lab	ICP	
31	13.15	-9.256
Std Dev	3.99	-1.000
111	3.50	-0.563

43	3.00	-0.113
Median	2.88	0.000
43	2.75	0.113
Std Dev	1.76	1.000
18	1.60	1.149
24	1.29	1.428

151.XX	Total Arsenic	
Lab	Total Method	
31	13.15	-9.256
Std Dev	3.99	-1.000
111	3.50	-0.563
43	3.00	-0.113
Median	2.88	0.000
43	2.75	0.113
Std Dev	1.76	1.000
18	1.60	1.149
24	1.29	1.428

165.99	Acid Soluble Boron	
Lab	PPM	Other
24	76.90	0.000
Median	76.90	0.000

165.XX, ppm	Acid Soluble Boron	
Lab	PPM	Total Method
24	76.90	0.000
Median	76.90	0.000

181.30	Total Cadmium	
Lab	PPM	ICP
61	35.00	-2.220
18	31.70	-1.173
Std Dev	31.15	-1.000
111	28.00	0.000
Median	28.00	0.000
43	27.48	0.167
43	27.06	0.298

181.99	Total Cadmium	
Lab	Other	
24	32.80	0.000
Median	32.80	0.000

181.XX Total Cadmium		
Lab	PPM	Total Method
61	35.00	-1.403
Std Dev	33.52	-1.000
24	32.80	-0.804
18	31.70	-0.504
Median	29.85	0.000
111	28.00	0.504
43	27.48	0.647
43	27.06	0.760

190.00 Aluminum		
Lab	%Al ₂ O ₃	ICP
32	0.52	-2.466
14	0.49	-1.394
Std Dev	0.48	-1.000
14	0.48	-0.965
9	0.48	-0.750
32	0.48	-0.750
43	0.47	-0.536
34	0.46	-0.107
43	0.46	-0.107
Median	0.46	0.000
23	0.46	0.107
24	0.45	0.322
61	0.45	0.322
23	0.45	0.536
24	0.44	0.750
Std Dev	0.43	1.000
18	0.43	1.179
18	0.43	1.179
111	0.16	12.778

190.99 Aluminum		
Lab	%Al ₂ O ₃	Atomic Absorption
31	1.29	0.000
Median	1.29	0.000

190.XX Aluminum		
Lab	%Al ₂ O ₃	Total Method
31	1.29	-36.850
32	0.52	-2.457
14	0.49	-1.340
Std Dev	0.48	-1.000

14	0.48	-0.893
9	0.48	-0.670
32	0.48	-0.670
43	0.47	-0.447
34	0.46	0.000
43	0.46	0.000
Median	0.46	0.000
23	0.46	0.223
24	0.45	0.447
61	0.45	0.447
23	0.45	0.670
24	0.44	0.893
Std Dev	0.44	1.000
18	0.43	1.340
18	0.43	1.340
111	0.16	13.422

191.30 Total Chromium		
Lab	PPM	ICP
61	241.50	-1.472
Std Dev	237.97	-1.000
111	233.50	-0.401
43	232.00	-0.201
Median	230.50	0.000
43	229.00	0.201
Std Dev	223.03	1.000
18	221.15	1.251
31	111.20	15.966

191.99 Total Chromium		
Lab	PPM	Other
24	226.00	0.000
Median	226.00	0.000

191.XX Total Chromium		
Lab	PPM	Total Method
61	241.50	-1.826
Std Dev	235.85	-1.000
111	233.50	-0.657
43	232.00	-0.438
43	229.00	0.000
Median	229.00	0.000
24	226.00	0.438
Std Dev	222.15	1.000

18	221.15	1.146
31	111.20	17.205

202.30 Acid Soluble Cobalt		
Lab	PPM	ICP
43		

202.99 Acid Soluble Cobalt		
Lab	PPM	Other
24	0.73	0.000
Median	0.73	0.000

202.XX Acid Soluble Cobalt		
Lab	PPM	Total Method
43	2.00	0.000
43	2.00	0.000
61	2.00	0.000
Median	2.00	0.000
Std Dev	1.93	1.000
18	1.90	1.340
24	0.73	17.018

221.00 Acid Soluble Copper		
Lab	PPM	Atomic Absorption
219	0.69	0.000
Median	0.69	0.000

221.30 Acid Soluble Copper		
Lab	PPM	ICP
61	<0.4	0.000
18	1.70	-3.127
Std Dev	1.22	-1.000
43	1.00	0.000
43	1.00	0.000
Median	1.00	0.000
Std Dev	0.78	1.000
111	0.50	2.233

221.99 Acid Soluble Copper		
Lab	PPM	Other
61	<0.4	0.000
24	0.85	0.000
Median	0.85	0.000

221.XX Acid Soluble Copper		
Lab	PPM	Total Method
61	<0.4	0.000
61	<0.4	0.000
18	1.70	-6.253
Std Dev	1.11	-1.000
43	1.00	0.000
43	1.00	0.000
Median	1.00	0.000
Std Dev	0.89	1.000
24	0.85	1.340
111	0.50	4.467

241.30 Acid Soluble Iron		
Lab	%Fe ₂ O ₃	ICP
31	1.73	-57.084
32	0.69	-1.608
61	0.69	-1.608
24	0.68	-1.072
34	0.68	-1.072
Std Dev	0.68	-1.000
32	0.68	-0.804
23	0.66	0.000
23	0.66	0.000
24	0.66	0.000
43	0.66	0.000
Median	0.66	0.000
9	0.66	0.268
14	0.66	0.268
14	0.65	0.536
43	0.65	0.536
Std Dev	0.64	1.000
111	0.64	1.072

241.XX Acid Soluble Iron		
Lab	%Fe ₂ O ₃	Total Method
31	1.73	-53.600
32	0.69	-1.510
61	0.69	-1.510
219	0.69	-1.334
24	0.68	-1.007
34	0.68	-1.007
Std Dev	0.68	-1.000
32	0.68	-0.755

23	0.66	0.000
23	0.66	0.000
24	0.66	0.000
43	0.66	0.000
Median	0.66	0.000
9	0.66	0.252
14	0.66	0.252
14	0.65	0.503
43	0.65	0.503
Std Dev	0.64	1.000
111	0.64	1.007

251.30		Total Lead
Lab	PPM	ICP
18	1.95	0.690
43	1.00	0.000
43	1.00	0.000
61	1.00	0.000
Median	1.00	0.000
111	0.00	0.690

251.99		Total Lead
Lab	PPM	Other
24	0.00	0.000
Median	0.00	0.000

251.XX		Total Lead
Lab	PPM	Total Method
18	1.95	-1.699
Std Dev	1.56	-1.000
43	1.00	0.000
43	1.00	0.000
61	1.00	0.000
Median	1.00	0.000
Std Dev	0.44	1.000
24	0.00	1.787
111	0.00	1.788

261.30		Acid Soluble Manganese
Lab	PPM	ICP
31	288.20	-2.666
Std Dev	137.05	-1.000
18	46.30	0.000
Median	46.30	0.000

111	45.00	0.014
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261.99		Acid Soluble Manganese
Lab	PPM	Other
43	51.00	-0.336
219	51.00	-0.332
43	50.50	0.000
Median	50.50	0.000
Std Dev	49.01	1.000
61	49.00	1.008
24	45.30	3.493

261.XX		Acid Soluble Manganese
Lab	PPM	Total Method
31	288.20	-64.599
Std Dev	53.44	-1.000
43	51.00	-0.339
219	51.00	-0.337
43	50.50	-0.203
Median	49.75	0.000
61	49.00	0.203
18	46.30	0.935
Std Dev	46.06	1.000
24	45.30	1.206
111	45.00	1.287

281.30		Total Mercury
Lab	PPM	ICP
24	0.45	0.000
Median	0.45	0.000

281.XX		Total Mercury
Lab	PPM	Total Method
24	0.45	0.000
Median	0.45	0.000

289.30		Total Molybdenum
Lab	PPM	ICP
111		

289.99		Total Molybdenum
Lab	PPM	Other
24	3.25	0.000
Median	3.25	0.000

289.XX		Total Molybdenum
Lab	PPM	Total Method
111	14.50	-16.637
Std Dev	3.27	-1.000
24	3.25	-0.975
43	2.60	-0.070
Median	2.55	0.000
43	2.50	0.070
61	2.00	0.766
Std Dev	1.83	1.000
18	1.51	1.448

291.30		Total Nickel
Lab	PPM	ICP
61		

291.99		Total Nickel
Lab	PPM	Other
24	22.00	-1.340
Std Dev	21.19	-1.000
Median	18.83	0.000
Std Dev	16.46	1.000
18	15.65	1.340

291.XX		Total Nickel
Lab	PPM	Total Method
24	22.00	-8.040
61	17.00	-1.340
Std Dev	16.75	-1.000
43	16.00	0.000
43	16.00	0.000
Median	16.00	0.000
18	15.65	0.469

301.30		Total Selenium
Lab	PPM	ICP
18	1.50	-1.340
Std Dev	1.39	-1.000
Median	1.08	0.000
Std Dev	0.77	1.000
24	0.66	1.340

301.XX		Total Selenium
Lab	PPM	Total Mthod
18	1.50	-1.340

Std Dev	1.39	-1.000
Median	1.08	0.000
Std Dev	0.77	1.000
24	0.66	1.340

311.99		Sodium
Lab	%Na ₂ O	Other
24	0.32	-0.501
23	0.32	-0.251
23	0.32	-0.251
24	0.31	0.000
61	0.31	0.000
Median	0.31	0.000
Std Dev	0.29	1.000
111	0.29	1.003
43	0.28	1.349
43	0.28	1.409

311.XX		Sodium
Lab	%Na ₂ O	Total Method
24	0.32	-0.501
23	0.32	-0.251
23	0.32	-0.251
24	0.31	0.000
61	0.31	0.000
Median	0.31	0.000
Std Dev	0.29	1.000
111	0.29	1.003
43	0.28	1.349
43	0.28	1.409

321.00		Acid Soluble Zinc
Lab	PPM	Atomic Absorption
219	437.20	0.000
Median	437.20	0.000

321.30		Acid Soluble Zinc
Lab	PPM	ICP
111	463.50	-0.659
24	459.00	-0.277
Median	455.75	0.000
61	452.50	0.277
Std Dev	444.00	1.000
18	420.00	3.042

321.99		Acid Soluble Zinc	
Lab		Other	
43	439.00		-1.340
Std Dev	438.18		-1.000
Median	435.75		0.000
Std Dev	433.32		1.000
43	432.50		1.340

321.XX		Acid Soluble Zinc	
Lab	PPM	Total Method	
111	463.50		-1.571
24	459.00		-1.282
Std Dev	454.60		-1.000
61	452.50		-0.866
43	439.00		0.000
Median	439.00		0.000
219	437.20		0.115
43	432.50		0.417
Std Dev	423.40		1.000
18	420.00		1.218

325.10		Fluoride	
Lab	%	Electrode	
31	2.03		-20.100
111	1.37		-3.898
32	1.27		-1.584
32	1.25		-1.096
24	1.22		-0.365
24	1.22		-0.365
23	1.21		0.000
Median	1.21		0.000
23	1.20		0.122
34	1.20		0.122
79	1.20		0.244
9	1.18		0.731
14	1.15		1.340
14	1.10		2.558

325.99		Fluoride	
Lab	%	Other	
61	1.26		-1.340
Median	1.25		0.000
61	1.24		1.340

325.XX		Fluoride	
Lab	%	Total Method	
31	2.03		-19.735
111	1.37		-3.533
32	1.27		-1.218
61	1.26		-0.853
32	1.25		-0.731
61	1.24		-0.487
24	1.22		0.000
24	1.22		0.000
Median	1.22		0.000
23	1.21		0.365
23	1.20		0.487
34	1.20		0.487
79	1.20		0.609
9	1.18		1.096
14	1.15		1.705
14	1.10		2.924