

AFPC

2017-06

Grade

11-52-0

Sample

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, Other		001.99	11	11.19	0.04
Method Group 001.XX PCT			11	11.19	0.05
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	1	11.19	0.00
Total Nitrogen, Combustion	993.13	010.60	19	11.18	0.13
Total Nitrogen, Other		010.99	2	11.10	0.00
Method Group 010.XX PCT			22	11.17	0.13
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	1	53.56	0.00
Total Phosphate, Spectrometric	978.02	020.20	16	53.67	0.27
Total Phosphate, ICP	970.03	020.40	3	53.60	0.52
Total Phosphate, ICP, Lithium	970.02	020.50	1	53.32	0.00
Method Group 020.XX PCT			21	53.62	0.36
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	7	0.65	0.11
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	1	0.25	0.00
Insoluble Phosphate, Automated	978.01	030.40	3	0.49	0.13
Insoluble Phosphate, Other		030.99	2	0.71	0.02
Method Group 030.XX PCT			13	0.65	0.13
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Spectrometric	960.02	040.20	10	53.04	0.11
Indirect Available Phosphate, Other		040.99	3	52.74	0.19
Method Group 040.XX PCT			13	53.03	0.10
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	2	52.37	0.19
Direct Available Phosphate, Spectrometric	960.03D	041.20	2	52.91	0.11
Direct Available Phosphate, Automated	978.01	041.40	1	53.29	0.00
Direct Available Phosphate, ICP		041.50	1	52.57	0.00
Direct Available Phosphate, EDTA Extract	993.01	041.60	5	52.49	0.75
Method Group 041.XX PCT			11	52.63	0.66
WATER SOLUBLE PHOSPHATE					
Water Soluble Phosphate, Spectrometric	970.01	048.20	12	48.15	0.44
Water Soluble Phosphate, Other		048.99	5	48.34	0.31
Method Group 048.XX PCT			17	48.25	0.50
SOLUBLE POTASH AS K₂O					
Soluble Potash, ICP(Oxalate)		050.50	2	0.17	0.00
Soluble Potash, ICP(Citrate)		050.51	1	0.18	0.00
Soluble Potash, Other		050.99	6	0.17	0.01
Method Group 050.XX PCT			9	0.17	0.01
FREE WATER					
Free Water, Vacuum Oven	965.08B	060.00	14	0.91	0.17
Free Water, Other		060.99	3	1.11	0.06
Method Group 060.XX PCT			17	0.91	0.22
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	15	0.37	0.02
Acid Soluble Calcium, Other		101.99	1	0.24	0.00
Method Group 101.XX PCT			17	0.37	0.03
ACID SOLUBLE MAGNESIUM AS MgO					
Acid Soluble Magnesium, Atomic Absorption	984.01	121.00	1	0.59	0.00
Acid Soluble Magnesium, ICP		121.30	14	0.93	0.02
Acid Soluble Magnesium, Other		121.99	2	0.72	0.07
Method Group 121.XX PCT			17	0.93	0.05
SULFATE SULFUR (S)					
Sulfur, Gravimetric	980.02(a)	144.01	1	9.80	0.00
Sulfur, Other		144.99	14	1.46	0.03

Method Group 144.XX PCT		15	1.47	0.04
TOTAL SULFUR (S)				
Sulfur, Other	145.99	1	1.43	0.0
Method Group 145.XX PCT		1	1.43	0.0
TOTAL ARSENIC				
Total Arsenic, ICP	980.02(b) 151.02	3	12.2	1.8
Total Arsenic, Other	151.99	3	14.1	0.7
Method Group 151.XX PPM		6	13.0	1.5
ACID SOLUBLE BORON				
Acid Soluble Boron, Other	165.99	1	23	0.0
Method Group 165.XX PPM		1	23	0.0
TOTAL CADMIUM				
Total Cadmium, ICP	181.30	6	3.2	2.0
Total Cadmium, Other	181.99	2	3.9	0.1
Method Group 181.XX PPM		8	3.7	1.5
ALUMINUM AS Al₂O₃				
ICP, %		14	1.98	0.02
Water Soluble Chlorine, Other, %	190.99	1	1.93	0.00
Method Group 190.XX PCT		15	1.98	0.04
TOTAL CHROMIUM				
Total Chromium, ICP	191.30	7	95	5.9
Total Chromium, Other	191.99	1	94	0.0
Method Group 191.XX PPM		8	95	6.4
ACID SOLUBLE COBALT				
Acid Soluble Cobalt, ICP	202.30	7	2	1.0
Acid Soluble Cobalt, Other	202.99	1	3	0.0
Method Group 202.XX PPM		8	2	1.1
ACID SOLUBLE COPPER				
Acid Soluble Copper, Other	221.99	1	0.9	0.0
Method Group 221.XX PPM		3	1.3	1.5
ACID SOLUBLE IRON AS Fe₂O₃				
Acid Soluble Iron, ICP	241.30	15	1.23	0.02
Acid Soluble Iron, Other	241.99	1	1.17	0.00
Method Group 241.XX PCT		17	1.23	0.03
TOTAL LEAD				
Total Lead, ICP	251.30	2	6	0.1
Method Group 251.XX PPM		2	6	0.2
ACID SOLUBLE MANGANESE				
Acid Soluble Manganese, ICP	972.02a 261.30	2	478	8.9
Acid Soluble Manganese, Other	261.99	7	489	13.3
Method Group 261.XX PPM		9	489	14.1
TOTAL MOLYBDENUM				
Total Molybdenum, ICP	289.30	7	24	1.0
Total Molybdenum, Other	289.99	1	25	0.0
Method Group 289.XX PPM		8	24	1.0
TOTAL NICKEL				
Total Nickel, ICP	291.30	6	13.9	0.7
Total Nickel, icp	291.99	1	15.2	0.0
Method Group 291.XX PPM		7	13.9	0.8
TOTAL SELENIUM				
Total Selenium, ICP	301.30	2	0.7	0.5
Total Selenium, Other	301.99	1	1	0.0
Method Group 301.XX PPM		3	0.8	0.6
SODIUM AS Na₂O				
Sodium, Other	311.99	8	0.22	0.01
Method Group 311.XX PCT		8	0.22	0.01
ACID SOLUBLE ZINC				
Acid Soluble Zinc, Atomic Absorption	975.02 321.00	1	319.4	0.0
Acid Soluble Zinc, ICP	321.30	9	311.5	13.8
Acid Soluble Zinc, Other	321.99	1	306.6	0.0
Method Group 321.XX %		11	311.5	15.4
FLUORIDE				

Volumetric	325.10	13	1.56	0.08
Distilled/Electrode	325.99	2	1.71	0.02
Method Group 325.XX PCT		15	1.58	0.11

001.99 Ammoniacal Nitrogen		
Lab		Other
140	11.24	-1.049
Std Dev	11.23	-1.000
23	11.23	-0.932
23	11.20	-0.233
24	11.20	-0.117
24	11.19	0.000
61	11.19	0.000
Median	11.19	0.000
61	11.18	0.233
34	11.17	0.466
Std Dev	11.15	1.000
32	11.11	1.864
32	11.10	2.214
38	10.81	8.856

001.XX Ammoniacal Nitrogen		
Lab		Total Method
140	11.24	-1.049
Std Dev	11.23	-1.000
23	11.23	-0.932
23	11.20	-0.233
24	11.20	-0.117
24	11.19	0.000
61	11.19	0.000
Median	11.19	0.000
61	11.18	0.233
34	11.17	0.466
Std Dev	11.15	1.000
32	11.11	1.864
32	11.10	2.214
38	10.81	8.856

010.11 Total Nitrogen		
Lab		Modified Comprehensive
219	11.19	0.000
Median	11.19	0.000

010.60 Total Nitrogen		
Lab		Combustion
110	18.32	-53.153
39	11.32	-1.079
Std Dev	11.31	-1.000

31	11.31	-0.968
24	11.28	-0.782
9	11.24	-0.484
24	11.24	-0.484
77	11.24	-0.447
219	11.21	-0.261
9	11.20	-0.149
64	11.18	0.000
Median	11.18	0.000
14	11.16	0.149
14	11.15	0.186
111	11.15	0.186
63	11.10	0.558
Std Dev	11.04	1.000
29	11.02	1.154
137	11.01	1.228
405	10.97	1.563
99	10.85	2.419
47	10.83	2.568

010.99 Total Nitrogen		
Lab		Other
32	11.10	0.000
32	11.10	0.000
Median	11.10	0.000

010.XX Total Nitrogen		
Lab		Total Method
110	18.32	-66.650
39	11.32	-1.445
31	11.31	-1.305
24	11.28	-1.072
Std Dev	11.27	-1.000
9	11.24	-0.699
24	11.24	-0.699
77	11.24	-0.653
219	11.21	-0.419
9	11.20	-0.280
219	11.19	-0.186
64	11.18	-0.093
Median	11.17	0.000
14	11.16	0.093
14	11.15	0.140
111	11.15	0.140

63	11.10	0.606
32	11.10	0.653
32	11.10	0.653
Std Dev	11.06	1.000
29	11.02	1.352
137	11.01	1.445
405	10.97	1.864
99	10.85	2.936
47	10.83	3.123

020.10 Total Phosphate		
Lab		Gravimetric Quimociac
219	53.56	0.000
Median	53.56	0.000

020.20 Total Phosphate		
Lab		Spectrometric
111	54.14	-1.765
61	54.12	-1.690
Std Dev	53.94	-1.000
34	53.87	-0.756
31	53.82	-0.570
9	53.82	-0.551
24	53.78	-0.420
61	53.78	-0.420
23	53.69	-0.065
Median	53.67	0.000
24	53.65	0.065
140	53.62	0.177
23	53.62	0.196
32	53.47	0.738
14	53.42	0.924
99	53.42	0.943
Std Dev	53.40	1.000
14	53.39	1.037
32	53.30	1.373

020.40 Total Phosphate		
Lab		Automated
9	53.87	-0.519
219	53.60	0.000
Median	53.60	0.000
Std Dev	53.07	1.000
137	52.47	2.161

020.50 Total Phosphate		
Lab		ICP
111	53.32	0.000
Median	53.32	0.000

020.XX Total Phosphate		
Lab		Total Method
111	54.14	-1.764
61	54.12	-1.696
Std Dev	53.91	-1.000
34	53.87	-0.848
9	53.87	-0.831
31	53.82	-0.678
9	53.82	-0.662
24	53.78	-0.543
61	53.78	-0.543
23	53.69	-0.221
24	53.65	-0.102
140	53.62	0.000
Median	53.62	0.000
23	53.62	0.017
219	53.60	0.085
219	53.56	0.204
32	53.47	0.509
14	53.42	0.678
99	53.42	0.695
14	53.39	0.780
Std Dev	53.33	1.000
111	53.32	1.035
32	53.30	1.086
137	52.47	3.901

030.20 Insoluble Phosphate		
Lab		Spectrometric
61	1.02	-3.261
23	0.85	-1.742
Std Dev	0.76	-1.000
61	0.66	-0.089
24	0.65	0.000
Median	0.65	0.000
23	0.61	0.402
24	0.60	0.447
140	0.59	0.536

030.30 Insoluble Phosphate		
Lab	Alka. Quimociac	
31	0.25	0.000
Median	0.25	0.000

030.40 Insoluble Phosphate		
Lab	Automated	
34	0.76	-2.097
Std Dev	0.61	-1.000
9	0.49	0.000
Median	0.49	0.000
9	0.41	0.583

030.99 Insoluble Phosphate		
Lab	Other	
32	0.73	-1.340
Std Dev	0.72	-1.000
Median	0.71	0.000
Std Dev	0.69	1.000
32	0.69	1.340

030.XX Insoluble Phosphate		
Lab	Total Method	
61	1.02	-3.494
23	0.85	-1.866
34	0.76	-1.005
Std Dev	0.75	-1.000
32	0.73	-0.766
32	0.69	-0.335
61	0.66	-0.096
24	0.65	0.000
Median	0.65	0.000
23	0.61	0.431
24	0.60	0.479
140	0.59	0.574
Std Dev	0.55	1.000
9	0.49	1.579
9	0.41	2.297
31	0.25	3.876

040.20 Indirect Available Phosphate		
Lab	Spectrometric	
9	53.46	-3.784

9	53.34	-2.748
24	53.18	-1.306
Std Dev	53.15	-1.000
61	53.11	-0.631
31	53.04	-0.045
Median	53.04	0.000
140	53.03	0.045
61	53.02	0.135
23	53.01	0.225
24	53.00	0.315
Std Dev	52.92	1.000
23	52.84	1.757

040.99 Indirect Available Phosphate		
Lab	Other	
34	53.12	-2.010
Std Dev	52.93	-1.000
32	52.74	0.000
Median	52.74	0.000
32	52.62	0.670

040.XX Indirect Available Phosphate		
Lab	Total Method	
9	53.46	-4.952
9	53.34	-3.612
24	53.18	-1.748
Std Dev	53.12	-1.000
34	53.12	-0.990
61	53.11	-0.874
31	53.04	-0.117
140	53.03	0.000
Median	53.03	0.000
61	53.02	0.117
23	53.01	0.233
24	53.00	0.350
Std Dev	52.94	1.000
23	52.84	2.214
32	52.74	3.379
32	52.62	4.836

041.10 Direct Available Phosphate		
Lab	Gravimetric Quimociac	
219	52.63	-1.340
Std Dev	52.56	-1.000

Median	52.37	0.000
Std Dev	52.18	1.000
47	52.12	1.340

041.20 Direct Available Phosphate		
Lab	Spectrometric	
38	53.05	-1.340
Std Dev	53.02	-1.000
Median	52.91	0.000
Std Dev	52.80	1.000
47	52.77	1.340

041.40 Direct Available Phosphate		
Lab	Automated	
39	53.29	0.000
Median	53.29	0.000

041.50 Direct Available Phosphate		
Lab	ICP	
63	52.57	0.000
Median	52.57	0.000

041.60 Direct Available Phosphate		
Lab	EDTA Extract	
29	53.43	-1.248
219	53.42	-1.227
Std Dev	53.24	-1.000
64	52.49	0.000
Median	52.49	0.000
137	52.41	0.113
77	52.20	0.385

041.XX Direct Available Phosphate		
Lab	Total Method	
29	53.43	-1.497
219	53.42	-1.468
39	53.29	-1.226
Std Dev	53.16	-1.000
38	53.05	-0.794
47	52.77	-0.260
219	52.63	0.000
Median	52.63	0.000
63	52.57	0.102
64	52.49	0.251

137	52.41	0.409
77	52.20	0.790
47	52.12	0.948

048.20 Water Soluble Phosphate		
Lab	Spectrometric	
9	48.86	-1.615
Std Dev	48.59	-1.000
31	48.50	-0.799
140	48.49	-0.776
23	48.41	-0.584
24	48.40	-0.572
61	48.25	-0.221
Median	48.15	0.000
61	48.05	0.221
111	47.94	0.482
23	47.86	0.663
24	47.78	0.844
Std Dev	47.71	1.000
14	47.62	1.207
14	47.56	1.343

048.99 Water Soluble Phosphate		
Lab	Other	
9	48.84	-1.631
Std Dev	48.64	-1.000
32	48.35	-0.032
34	48.34	0.000
Median	48.34	0.000
Std Dev	48.03	1.000
111	47.93	1.308
32	47.72	1.986

048.XX Water Soluble Phosphate		
Lab	Total Method	
9	48.86	-1.498
9	48.84	-1.450
Std Dev	48.66	-1.000
31	48.50	-0.621
140	48.49	-0.597
23	48.41	-0.390
24	48.40	-0.378
32	48.35	-0.244
34	48.34	-0.219

61	48.25	0.000
Median	48.25	0.000
61	48.05	0.475
111	47.94	0.755
111	47.93	0.767
23	47.86	0.950
Std Dev	47.83	1.000
24	47.78	1.145
32	47.72	1.279
14	47.62	1.535
14	47.56	1.681

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	0.18	0.000
Median	0.18	0.000

050.99	%K ₂ O	Soluble Potash
Lab		Other
61	0.19	-1.340
61	0.19	-1.340
Std Dev	0.18	-1.000
111	0.18	-0.268
Median	0.17	0.000
24	0.17	0.268
24	0.17	0.268
31	0.17	0.804

050.XX	%K ₂ O	Soluble Potash
Lab		Total Method
61	0.19	-2.010
61	0.19	-2.010
137	0.18	-1.340
Std Dev	0.18	-1.000
111	0.18	-0.670
23	0.17	0.000
23	0.17	0.000
24	0.17	0.000

24	0.17	0.000
Median	0.17	0.000
31	0.17	0.670

060.00	Free Water	
Lab	Vacuum Oven	
31	1.16	-1.529
9	1.15	-1.438
9	1.11	-1.211
34	1.08	-1.045
Std Dev	1.07	-1.000
24	1.05	-0.833
24	0.91	-0.015
140	0.91	-0.015
Median	0.91	0.000
111	0.91	0.015
23	0.90	0.076
32	0.87	0.257
32	0.85	0.379
61	0.84	0.409
Std Dev	0.74	1.000
61	0.74	1.045
23	0.67	1.438

060.99	Free Water	
Lab	Other	
14	1.13	-0.244
14	1.11	0.000
Median	1.11	0.000
Std Dev	1.05	1.000
47	0.96	2.436

060.XX	Free Water	
Lab	Total Method	
31	1.16	-1.381
9	1.15	-1.299
14	1.13	-1.188
14	1.11	-1.105
9	1.11	-1.091
Std Dev	1.09	-1.000
34	1.08	-0.939
24	1.05	-0.746
47	0.96	-0.276
24	0.91	0.000

140	0.91	0.000
Median	0.91	0.000
111	0.91	0.028
23	0.90	0.083
32	0.87	0.249
32	0.85	0.359
61	0.84	0.387
61	0.74	0.967
Std Dev	0.73	1.000
23	0.67	1.326

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	0.44	-3.519
61	0.41	-1.895
32	0.40	-1.354
24	0.39	-1.083
32	0.39	-1.083
Std Dev	0.39	-1.000
34	0.38	-0.541
24	0.38	-0.271
23	0.37	0.000
23	0.37	0.000
111	0.37	0.000
Median	0.37	0.000
31	0.37	0.244
14	0.37	0.271
9	0.36	0.541
9	0.36	0.541
Std Dev	0.35	1.000
14	0.35	1.083

101.99	Acid Soluble Calcium	
Lab	%CaO Other	
219	0.24	0.000
Median	0.24	0.000

101.XX	Acid Soluble Calcium
Lab	%CaO Total Method

61	0.44	-2.903
61	0.41	-1.563
32	0.40	-1.117
Std Dev	0.39	-1.000
24	0.39	-0.893
32	0.39	-0.893
34	0.38	-0.447
24	0.38	-0.223
23	0.37	0.000
23	0.37	0.000
111	0.37	0.000
Median	0.37	0.000
31	0.37	0.201
14	0.37	0.223
9	0.36	0.447
9	0.36	0.447
14	0.35	0.893
Std Dev	0.35	1.000
219	0.24	6.008
219	0.21	6.946

121.00	Acid Soluble Magnesium	
Lab	%MgO Atomic Absorption	
219	0.59	0.000
Median	0.59	0.000

121.30	Acid Soluble Magnesium	
Lab	%MgO ICP	
32	0.96	-1.876
32	0.96	-1.608
34	0.96	-1.608
Std Dev	0.94	-1.000
61	0.94	-0.536
24	0.93	-0.268
9	0.93	0.000
23	0.93	0.000
23	0.93	0.000
24	0.93	0.000
Median	0.93	0.000
9	0.92	0.268
Std Dev	0.91	1.000
61	0.91	1.072
31	0.89	2.144
14	0.88	2.412

14	0.88	2.412
121.99 Acid Soluble Magnesium		
Lab	%MgO	Other
111	0.82	-1.340
Std Dev	0.79	-1.000
Median	0.72	0.000
Std Dev	0.65	1.000
219	0.62	1.340
121.XX Acid Soluble Magnesium		
Lab	%MgO	Total Method
32	0.96	-0.938
32	0.96	-0.804
34	0.96	-0.804
61	0.94	-0.268
24	0.93	-0.134
9	0.93	0.000
23	0.93	0.000
23	0.93	0.000
24	0.93	0.000
Median	0.93	0.000
9	0.92	0.134
61	0.91	0.536
Std Dev	0.89	1.000
31	0.89	1.072
14	0.88	1.206
14	0.88	1.206
111	0.82	2.948
219	0.62	8.120
219	0.59	9.005
144..01 Sulfate Sulfur (S)		
Lab		Gravimetric
47	9.80	0.000
Median	9.80	0.000
144.99 Sulfate Sulfur (S)		
Lab		Other
61	1.50	-1.225
9	1.50	-1.072
Std Dev	1.49	-1.000
23	1.49	-0.919
23	1.48	-0.613

9	1.48	-0.459
24	1.48	-0.459
14	1.47	-0.153
Median	1.46	0.000
32	1.46	0.153
34	1.46	0.153
24	1.45	0.306
32	1.43	0.919
Std Dev	1.43	1.000
61	1.43	1.072
14	1.40	1.838
31	1.38	2.603
144.XX Sulfate Sulfur (S)		
Lab		Total Method
47	9.80	-248.198
61	1.50	-1.042
Std Dev	1.50	-1.000
9	1.50	-0.893
23	1.49	-0.744
23	1.48	-0.447
9	1.48	-0.298
24	1.48	-0.298
14	1.47	0.000
Median	1.47	0.000
32	1.46	0.298
34	1.46	0.298
24	1.45	0.447
Std Dev	1.43	1.000
32	1.43	1.042
61	1.43	1.191
14	1.40	1.936
31	1.38	2.680
145.99 Total Sulfur (S)		
Lab		Other
111	1.43	0.000
Median	1.43	0.000
145.XX Total Sulfur (S)		
Lab		Total Method
111	1.43	0.000
Median	1.43	0.000

151.30 Total Arsenic		
Lab		ICP
64	13.25	-0.627
24	12.15	0.000
Median	12.15	0.000
Std Dev	10.40	1.000
31	8.55	2.053
151.99 Total Arsenic		
Lab		Other
18	14.55	-0.647
18	14.10	0.000
Median	14.10	0.000
Std Dev	13.40	1.000
140	12.69	2.033
151.XX Total Arsenic		
Lab		Total Method
18	14.55	-1.322
Std Dev	14.16	-1.000
18	14.10	-0.946
64	13.25	-0.236
Median	12.97	0.000
140	12.69	0.236
24	12.15	0.683
Std Dev	11.77	1.000
31	8.55	3.691
165.99 Acid Soluble Boron		
Lab	PPM	Other
24	23.10	0.000
Median	23.10	0.000
165.XX, ppm Acid Soluble Boron		
Lab	PPM	Total Method
24	23.10	0.000
Median	23.10	0.000
181.30 Total Cadmium		
Lab	PPM	ICP
64	4.17	-0.473
61	3.75	-0.263
18	3.70	-0.238
Median	3.23	0.000

61	2.75	0.238
Std Dev	1.23	1.000
111	0.50	1.365
31	0.26	1.485
181.99 Total Cadmium		
Lab		Other
24	4.09	-1.340
Std Dev	4.04	-1.000
Median	3.89	0.000
Std Dev	3.75	1.000
18	3.70	1.340
181.XX Total Cadmium		
Lab	PPM	Total Method
64	4.17	-0.383
24	4.09	-0.313
61	3.75	-0.041
18	3.70	0.000
18	3.70	0.000
Median	3.70	0.000
61	2.75	0.773
Std Dev	2.47	1.000
111	0.50	2.605
31	0.26	2.799
190.00 Aluminum		
Lab	%Al ₂ O ₃	ICP
9	2.05	-3.379
9	2.04	-2.913
14	2.01	-1.282
Std Dev	2.00	-1.000
14	1.99	-0.583
24	1.99	-0.350
24	1.98	-0.117
32	1.98	-0.117
Median	1.98	0.000
23	1.98	0.117
23	1.98	0.117
34	1.98	0.117
Std Dev	1.96	1.000
32	1.96	1.049
61	1.91	3.379
61	1.86	5.477

111 1.28 32.510

190.99		
Lab	%Al ₂ O ₃	Aluminum Atomic Absorption
31	1.93	0.000
Median	1.93	0.000

190.XX		
Lab	%Al ₂ O ₃	Aluminum Total Method
9	2.05	-2.116
9	2.04	-1.834
Std Dev	2.01	-1.000
14	2.01	-0.846
14	1.99	-0.423
24	1.99	-0.282
24	1.98	-0.141
32	1.98	-0.141
23	1.98	0.000
23	1.98	0.000
34	1.98	0.000
Median	1.98	0.000
32	1.96	0.564
Std Dev	1.94	1.000
31	1.93	1.411
61	1.91	1.975
61	1.86	3.244
111	1.28	19.606

191.30		
Lab	PPM	Total Chromium ICP
18	99.20	-0.693
18	98.65	-0.600
31	97.70	-0.440
64	95.10	0.000
Median	95.10	0.000
61	91.50	0.609
Std Dev	89.19	1.000
111	89.00	1.031
61	88.00	1.201

191.99		
Lab	PPM	Total Chromium Other
24	94.05	0.000
Median	94.05	0.000

191.XX		
Lab	PPM	Total Chromium Total Method
18	99.20	-0.878
18	98.65	-0.773
31	97.70	-0.593
64	95.10	-0.100
Median	94.58	0.000
24	94.05	0.100
61	91.50	0.583
Std Dev	89.30	1.000
111	89.00	1.058
61	88.00	1.248

202.30		
Lab	PPM	Acid Soluble Cobalt ICP
64		

202.99		
Lab	PPM	Acid Soluble Cobalt Other
24	3.16	0.000
Median	3.16	0.000

202.XX		
Lab	PPM	Acid Soluble Cobalt Total Method
64	3.70	-1.335
61	3.55	-1.176
Std Dev	3.39	-1.000
24	3.16	-0.749
18	2.50	-0.027
Median	2.48	0.000
18	2.45	0.027
61	2.35	0.137
Std Dev	1.56	1.000
31	1.08	1.526
111	0.50	2.160

221.00		
Lab	PPM	Acid Soluble Copper Atomic Absorption
219	1.26	0.000
Median	1.26	0.000

221.30		
Lab	PPM	Acid Soluble Copper ICP
61	<0.4	0.000

61	<0.4	0.000
111	4.00	-1.340
Std Dev	3.66	-1.000
Median	2.65	0.000
18	1.30	1.340

221.99		
Lab	PPM	Acid Soluble Copper Other
24	0.81	0.000
Median	0.81	0.000

221.XX		
Lab	PPM	Acid Soluble Copper Total Method
61	<0.4	0.000
61	<0.4	0.000
111	4.00	-2.268
Std Dev	2.49	-1.000
18	1.30	0.000
Median	1.30	0.000
24	0.81	0.412

241.30		
Lab	%Fe ₂ O ₃	Acid Soluble Iron ICP
34	1.26	-1.340
Std Dev	1.25	-1.000
61	1.25	-0.893
9	1.24	-0.670
24	1.24	-0.670
32	1.24	-0.447
24	1.23	-0.223
32	1.23	-0.223
14	1.23	0.000
Median	1.23	0.000
9	1.22	0.223
23	1.22	0.447
14	1.21	0.670
23	1.21	0.893
Std Dev	1.20	1.000
61	1.20	1.117
31	1.20	1.340
111	1.19	1.563

241.99		
Lab	%Fe ₂ O ₃	Acid Soluble Iron Other
61	<0.4	0.000

219	1.17	0.000
Median	1.17	0.000

241.XX		
Lab	%Fe ₂ O ₃	Acid Soluble Iron Total Method
219	1.26	-1.474
34	1.26	-1.149
Std Dev	1.25	-1.000
61	1.25	-0.766
9	1.24	-0.574
24	1.24	-0.574
32	1.24	-0.383
24	1.23	-0.191
32	1.23	-0.191
14	1.23	0.000
Median	1.23	0.000
9	1.22	0.191
23	1.22	0.383
14	1.21	0.574
23	1.21	0.766
61	1.20	0.957
Std Dev	1.20	1.000
31	1.20	1.149
111	1.19	1.340
219	1.17	2.048

251.30		
Lab	PPM	Total Lead ICP
61	<1.8	0.000
61	<1.8	0.000
18	5.75	-1.340
Std Dev	5.70	-1.000
Median	5.55	0.000
18	5.35	1.340

251.XX		
Lab	PPM	Total Lead Total Method
61	<1.8	0.000
61	<1.8	0.000
18	5.75	-1.340
Std Dev	5.70	-1.000
Median	5.55	0.000
18	5.35	1.340

261.30 Acid Soluble Manganese		
Lab	ICP	
31	490.35	-1.340
Std Dev	487.32	-1.000
Median	478.43	0.000
Std Dev	469.53	1.000
111	466.50	1.340

261.99 Acid Soluble Manganese		
Lab	PPM	Other
219	512.35	-1.760
219	504.05	-1.135
Std Dev	502.26	-1.000
24	496.00	-0.528
18	489.00	0.000
Median	489.00	0.000
18	484.00	0.377
61	480.50	0.641
Std Dev	475.74	1.000
61	474.00	1.131

261.XX Acid Soluble Manganese		
Lab	PPM	Total Method
219	512.35	-2.019
219	504.05	-1.301
Std Dev	500.57	-1.000
24	496.00	-0.605
31	490.35	-0.117
18	489.00	0.000
Median	489.00	0.000
18	484.00	0.432
61	480.50	0.735
Std Dev	477.43	1.000
61	474.00	1.297
111	466.50	1.945

281.30 Total Mercury		
Lab	PPM	ICP
24	<0.001	0.000
Median	0.00	0.000

281.XX Total Mercury		
Lab	PPM	Total Method
24	<0.001	0.000

Median	0.00	0.000
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289.30 Total Molybdenum		
Lab	PPM	ICP
31		

289.99 Total Molybdenum		
Lab	PPM	Other
24	25.10	0.000
Median	25.10	0.000

289.XX Total Molybdenum		
Lab	PPM	Total Method
24	25.10	-1.890
31	24.60	-1.260
Std Dev	24.39	-1.000
64	23.79	-0.233
18	23.70	-0.126
Median	23.60	0.000
111	23.50	0.126
18	23.40	0.252
Std Dev	22.81	1.000
61	21.50	2.645
61	20.00	4.535

291.30 Total Nickel	
Lab	ICP
61	

291.99 Total Nickel		
Lab	PPM	Other
24	15.20	0.000
Median	15.20	0.000

291.XX Total Nickel		
Lab	PPM	Total Method
24	15.20	-1.935
Std Dev	14.55	-1.000
61	14.50	-0.932
64	14.22	-0.530
18	13.85	0.000
18	13.85	0.000
Median	13.85	0.000
Std Dev	13.15	1.000
61	13.00	1.218
31	9.60	6.091

301.30 Total Selenium		
Lab	PPM	ICP
18	1.35	-1.340
Std Dev	1.18	-1.000
Median	0.69	0.000
Std Dev	0.20	1.000
24	0.03	1.340

301.99 Total Selenium		
Lab	PPM	Other
140	0.83	0.000
Median	0.83	0.000

301.XX Total Selenium		
Lab	PPM	Total Method
18	1.35	-1.056
Std Dev	1.32	-1.000
140	0.83	0.000
Median	0.83	0.000
Std Dev	0.34	1.000
24	0.03	1.624

311.99 Sodium		
Lab	%Na ₂ O	Other
23	0.23	-1.340
31	0.23	-1.340
Std Dev	0.22	-1.000
23	0.22	-0.447
61	0.22	-0.447
Median	0.22	0.000
61	0.22	0.447
111	0.22	0.447
Std Dev	0.21	1.000
24	0.21	1.340
24	0.21	1.340

311.XX Sodium		
Lab	%Na ₂ O	Total Method
23	0.23	-1.340
31	0.23	-1.340
Std Dev	0.22	-1.000
23	0.22	-0.447
61	0.22	-0.447

Median	0.22	0.000
61	0.22	0.447
111	0.22	0.447
Std Dev	0.21	1.000
24	0.21	1.340
24	0.21	1.340

321.00 Acid Soluble Zinc		
Lab	Atomic Absorption	
219	319.40	0.000
Median	319.40	0.000

321.30 Acid Soluble Zinc		
Lab	PPM	ICP
31	370.95	-4.306
Std Dev	325.31	-1.000
64	321.82	-0.748
61	319.50	-0.579
18	312.00	-0.036
61	311.50	0.000
Median	311.50	0.000
18	304.00	0.543
24	301.00	0.761
Std Dev	297.69	1.000
111	54.50	18.615
47	1.00	22.491

321.99 Acid Soluble Zinc		
Lab	Other	
219	306.60	0.000
Median	306.60	0.000

321.XX Acid Soluble Zinc		
Lab	PPM	Total Method
31	370.95	-4.700
Std Dev	324.15	-1.000
64	321.82	-0.816
61	319.50	-0.632
219	319.40	-0.625
18	312.00	-0.040
61	311.50	0.000
Median	311.50	0.000
219	306.60	0.387
18	304.00	0.593

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24	301.00	0.830	14	1.44	1.477
Std Dev	298.85	1.000	111	1.32	2.789
111	54.50	20.317			
47	1.00	24.547			

325.10		Fluoride
Lab	%	Electrode
24	1.63	-0.957
24	1.63	-0.957
32	1.63	-0.957
9	1.60	-0.574
32	1.59	-0.383
23	1.58	-0.255
9	1.56	0.000
Median	1.56	0.000
34	1.54	0.191
31	1.52	0.447
23	1.50	0.766
14	1.45	1.340
14	1.44	1.468
111	1.32	2.999

325.99		Fluoride
Lab	%	Other
61	1.74	-1.340
Median	1.71	0.000
61	1.69	1.340

325.XX		Fluoride
Lab	%	Total Method
61	1.74	-1.750
61	1.69	-1.203
24	1.63	-0.602
24	1.63	-0.602
32	1.63	-0.602
9	1.60	-0.273
32	1.59	-0.109
23	1.58	0.000
Median	1.58	0.000
9	1.56	0.219
34	1.54	0.383
31	1.52	0.602
23	1.50	0.875
14	1.45	1.367