

AFPC

2014-11

Grade

18-46-0

Sample

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, Other		001.99	8	17.34	0.15
Method Group 001.XX PCT			8	17.34	0.18
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	3	17.80	0.06
Total Nitrogen, Salicylic	955.04d	010.12	1	17.63	0.00
Total Nitrogen, Combustion	993.13	010.60	22	17.82	0.16
Total Nitrogen, Other		010.99	7	17.78	0.04
Method Group 010.XX PCT			33	17.80	0.16
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	2	46.86	0.18
Total Phosphate, Spectrometric	978.02	020.20	20	46.16	0.16
Total Phosphate, ICP	970.03	020.40	3	46.29	0.24
Total Phosphate, Other	993.13	020.99	1	46.15	0.00
Method Group 020.XX PCT			26	46.19	0.22
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	6	0.19	0.19
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	1	0.11	0.00
Insoluble Phosphate, Automated	978.01	030.40	2	0.22	0.01
Insoluble Phosphate, Other		030.99	2	0.09	0.01
Method Group 030.XX PCT			11	0.16	0.10
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Spectrometric	960.02	040.20	7	45.89	0.21
Indirect Available Phosphate, Automated	960.02	040.40	1	46.03	0.00
Indirect Available Phosphate, Other		040.99	3	46.06	0.12
Method Group 040.XX PCT			11	45.90	0.20
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	2	45.70	0.03
Direct Available Phosphate, Spectrometric	960.03D	041.20	2	46.04	0.13
Direct Available Phosphate, Automated	978.01	041.40	2	45.00	0.41
Direct Available Phosphate, ICP		041.50	4	45.99	0.82
Direct Available Phosphate, EDTA Extract	993.01	041.60	4	45.97	0.51
Method Group 041.XX PCT			14	45.81	0.44
WATER SOLUBLE PHOSPHATE					
Water Soluble Phosphate, Spectrometric	970.01	048.20	11	41.11	0.13
Water Soluble Phosphate, Other		048.99	3	40.68	0.03
Method Group 048.XX PCT			14	41.02	0.38
SOLUBLE POTASH AS K₂O					
Soluble Potash, ICP(Oxalate)		050.50	3	0.15	0.01
Soluble Potash, ICP(Citrate)		050.51	1	0.17	0.00
Soluble Potash, Other		050.99	6	0.16	0.00
Method Group 050.XX PCT			10	0.16	0.01
FREE WATER					
Free Water, Vacuum Oven	965.08B	060.00	13	1.93	0.09
Free Water, Vacuum Desiccate	965.08A	060.10	1	4.53	0.00
Free Water, Other		060.99	2	1.89	0.02
Method Group 060.XX PCT			16	1.92	0.14
ACID SOLUBLE CALCIUM AS CaO					
Acid Soluble Calcium, ICP		101.30	15	0.26	0.02
Method Group 101.XX PCT			15	0.26	0.03
ACID SOLUBLE MAGNESIUM AS MgO					
Acid Soluble Magnesium, ICP		121.30	15	1.37	0.06
Method Group 121.XX PCT			15	1.37	0.08
SULFATE SULFUR (S)					
Sulfur, Gravimetric	980.02(a)	144.01	1	2.39	0.00
Sulfur, Spectrometric		144.70	2	2.38	0.01
Sulfur, Other		144.99	12	2.33	0.05

Method Group 144.XX PCT		15	2.36	0.06
TOTAL SULFUR (S)				
Sulfur, Other	145.99	3	2.39	0.04
Method Group 145.XX PCT		3	2.39	0.05
TOTAL ARSENIC				
Total Arsenic, ICP	980.02(b) 151.02	8	12	2.8
Method Group 151.XX PPM		8	12	3.4
ACID SOLUBLE BORON				
Acid Soluble Boron, Other	165.99	1	63	0.0
Method Group 165.XX PPM		1	63	0.0
TOTAL CADMIUM				
Total Cadmium, ICP	181.30	8	16	0.8
Total Cadmium, Other	181.99	1	17	0.0
Method Group 181.XX PPM		9	16	0.7
ALUMINUM AS Al₂O₃				
ICP, %		14	1.35	0.04
Water Soluble Chlorine, Other, %	190.99	1	1.35	0.00
Method Group 190.XX PCT		15	1.35	0.04
TOTAL CHROMIUM				
Total Chromium, ICP	191.30	8	157	3.8
Total Chromium, Other	191.99	1	161	0.0
Method Group 191.XX PPM		9	158	5.5
ACID SOLUBLE COBALT				
Acid Soluble Cobalt, ICP	202.30	6	2	0.6
Acid Soluble Cobalt, Other	202.99	1	2	0.0
Method Group 202.XX PPM		7	2	0.6
ACID SOLUBLE COPPER				
Acid Soluble Copper, ICP	221.30	6	3.7	0.7
Acid Soluble Copper, Other	221.99	1	0.0	0.0
Method Group 221.XX PPM		7	3.3	1.4
ACID SOLUBLE IRON AS Fe₂O₃				
Acid Soluble Iron, ICP	241.30	15	1.13	0.03
Method Group 241.XX PCT		15	1.13	0.03
TOTAL LEAD				
Total Lead, ICP	251.30	6	1	0.9
Total Lead, Other	251.99	1	0.5	0.0
Method Group 251.XX PPM		7	1	1.1
ACID SOLUBLE MANGANESE				
Acid Soluble Manganese, ICP	972.02a 261.30	4	229	4.5
Acid Soluble Manganese, Other	261.99	5	234	9.7
Method Group 261.XX PPM		9	231	5.0
TOTAL MERCURY				
Total Mercury, ICP	281.30	2	0.00	0.01
Method Group 281.XX PPM		2	0.07	0.02
TOTAL MOLYBDENUM				
Total Molybdenum, ICP	289.30	7	9	0.8
Total Molybdenum, Other	289.99	1	11	0.0
Method Group 289.XX PPM		8	9	1.2
TOTAL NICKEL				
Total Nickel, ICP	291.30	8	19	1.3
Total Nickel, Other	291.99	1	22	0.0
Method Group 291.XX PPM		9	19	1.8
TOTAL SELENIUM				
Total Selenium, ICP	301.30	4	0.8	0.7
Method Group 301.XX PPM		4	0.8	0.9
SODIUM AS Na₂O				
Sodium, Other	311.99	9	0.17	0.02
Method Group 311.XX PCT		9	0.17	0.02
ACID SOLUBLE ZINC				
Acid Soluble Zinc, ICP	321.30	7	220.0	10.0
Acid Soluble Zinc, Other	321.99	2	207.8	0.6
Method Group 321.XX PPM		9	218.8	5.0

FLUORIDE				
Volumetric	325.10	13	0.93	0.05
Distilled/Electrode	325.99	2	0.96	0.02
Method Group 325.XX PCT		15	0.93	0.06

001.99 Ammoniacal Nitrogen		
Lab		Other
79	17.50	-1.110
Std Dev	17.48	-1.000
24	17.44	-0.700
34	17.41	-0.495
24	17.40	-0.427
Median	17.34	0.000
32	17.28	0.427
32	17.23	0.768
310	17.21	0.871
Std Dev	17.19	1.000
38	16.64	4.797

001.XX Ammoniacal Nitrogen		
Lab		Total Method
79	17.50	-1.110
Std Dev	17.48	-1.000
24	17.44	-0.700
34	17.41	-0.495
24	17.40	-0.427
Median	17.34	0.000
32	17.28	0.427
32	17.23	0.768
310	17.21	0.871
Std Dev	17.19	1.000
38	16.64	4.797

010.11 Total Nitrogen		
Lab		Modified Comprehensive
219	17.85	-0.778
43	17.80	0.000
Median	17.80	0.000
Std Dev	17.74	1.000
43	17.69	1.902

010.12 Total Nitrogen		
Lab		Salicylic
107	17.63	0.000
Median	17.63	0.000

010.60 Total Nitrogen		
Lab		Combustion
49	18.10	-1.698

47	18.04	-1.356
14	18.02	-1.200
14	18.01	-1.169
24	17.99	-1.044
Std Dev	17.98	-1.000
29	17.97	-0.919
24	17.93	-0.670
315	17.92	-0.608
66	17.91	-0.545
275	17.84	-0.109
79	17.84	-0.078
Median	17.82	0.000
219	17.81	0.078
80	17.80	0.140
61	17.78	0.265
9	17.77	0.327
61	17.76	0.390
275	17.74	0.514
99	17.73	0.577
77	17.67	0.950
Std Dev	17.66	1.000
103	17.48	2.135
137	17.47	2.228
63	10.13	47.944

010.99 Total Nitrogen		
Lab		Other
310	18.13	-9.874
Std Dev	17.82	-1.000
34	17.81	-0.846
23	17.78	0.000
32	17.78	0.000
Median	17.78	0.000
40	17.76	0.705
Std Dev	17.74	1.000
23	17.74	1.128
32	17.71	1.975

010.XX Total Nitrogen		
Lab		Total Method
310	18.13	-2.457
49	18.10	-2.196
47	18.04	-1.787
14	18.02	-1.601

14	18.01	-1.563
24	17.99	-1.414
29	17.97	-1.266
Std Dev	17.93	-1.000
24	17.93	-0.968
315	17.92	-0.893
66	17.91	-0.819
219	17.85	-0.335
275	17.84	-0.298
79	17.84	-0.261
219	17.81	-0.074
34	17.81	-0.074
43	17.80	0.000
80	17.80	0.000
Median	17.80	0.000
23	17.78	0.149
32	17.78	0.149
61	17.78	0.149
9	17.77	0.223
61	17.76	0.298
40	17.76	0.335
23	17.74	0.447
275	17.74	0.447
99	17.73	0.521
32	17.71	0.670
43	17.69	0.819
77	17.67	0.968
Std Dev	17.67	1.000
107	17.63	1.266
103	17.48	2.382
137	17.47	2.494
63	10.13	57.099

020.10 Total Phosphate		
Lab		Gravimetric Quimociac
40	47.11	-1.340
Std Dev	47.04	-1.000
Median	46.86	0.000
Std Dev	46.68	1.000
219	46.62	1.340

020.20 Total Phosphate		
Lab		Spectrometric
315	46.35	-1.212

Std Dev	46.32	-1.000
24	46.27	-0.702
275	46.27	-0.702
32	46.23	-0.415
9	46.23	-0.415
14	46.22	-0.351
24	46.21	-0.319
43	46.20	-0.255
99	46.20	-0.223
14	46.19	-0.191
Median	46.16	0.000
32	46.13	0.191
43	46.12	0.287
34	46.06	0.638
23	46.05	0.734
61	46.01	0.957
Std Dev	46.00	1.000
23	46.00	1.021
31	46.00	1.021
275	45.96	1.276
61	45.94	1.436
79	45.68	3.063

020.40 Total Phosphate		
Lab		Automated
137	46.64	-1.489
Std Dev	46.52	-1.000
9	46.29	0.000
Median	46.29	0.000
Std Dev	46.05	1.000
219	46.01	1.191

020.99 Total Phosphate		
Lab		Other
310	46.15	0.000
Median	46.15	0.000

020.XX Total Phosphate		
Lab		Total Method
40	47.11	-5.095
137	46.64	-2.471
219	46.62	-2.359
Std Dev	46.37	-1.000
315	46.35	-0.879

9	46.29	-0.516
24	46.27	-0.433
275	46.27	-0.433
32	46.23	-0.181
9	46.23	-0.181
14	46.22	-0.126
24	46.21	-0.098
43	46.20	-0.042
99	46.20	-0.014
Median	46.19	0.000
14	46.19	0.014
310	46.15	0.237
32	46.13	0.349
43	46.12	0.433
34	46.06	0.740
23	46.05	0.824
Std Dev	46.01	1.000
61	46.01	1.019
219	46.01	1.047
23	46.00	1.075
31	46.00	1.075
275	45.96	1.298
61	45.94	1.438
79	45.68	2.861

030.20		Insoluble Phosphate
Lab		Spectrometric
61	0.49	-1.592
61	0.48	-1.539
Std Dev	0.37	-1.000
24	0.21	-0.133
Median	0.19	0.000
24	0.16	0.133
23	0.16	0.159
23	0.13	0.292

030.30		Insoluble Phosphate
Lab		Alka. Quimociac
31	0.11	0.000
Median	0.11	0.000

030.40		Insoluble Phosphate
Lab		Automated
34	0.24	-1.340

Std Dev	0.23	-1.000
Median	0.22	0.000
Std Dev	0.21	1.000
9	0.20	1.340

030.99		Insoluble Phosphate
Lab		Other
32	0.11	-1.340
Std Dev	0.10	-1.000
Median	0.09	0.000
Std Dev	0.07	1.000
32	0.07	1.340

030.XX		Insoluble Phosphate
Lab		Total Method
61	0.49	-4.051
61	0.48	-3.927
Std Dev	0.24	-1.000
34	0.24	-0.997
24	0.21	-0.623
9	0.20	-0.499
24	0.16	0.000
Median	0.16	0.000
23	0.16	0.062
23	0.13	0.374
31	0.11	0.686
32	0.11	0.686
Std Dev	0.08	1.000
32	0.07	1.122

040.20		Indirect Available Phosphate
Lab		Spectrometric
24	46.06	-0.828
24	46.05	-0.780
31	45.90	-0.024
23	45.89	0.000
Median	45.89	0.000
23	45.87	0.097
Std Dev	45.68	1.000
61	45.53	1.779
61	45.46	2.095

040.40		Indirect Available Phosphate
Lab		Automated

9	46.03	0.000
Median	46.03	0.000

040.99		Indirect Available Phosphate
Lab		Other
32	46.12	-0.519
32	46.06	0.000
Median	46.06	0.000
Std Dev	45.94	1.000
34	45.81	2.161

040.XX		Indirect Available Phosphate
Lab		Total Method
32	46.12	-1.402
24	46.06	-1.028
32	46.06	-1.028
Std Dev	46.06	-1.000
24	46.05	-0.966
9	46.03	-0.810
31	45.90	0.000
Median	45.90	0.000
23	45.89	0.031
23	45.87	0.156
34	45.81	0.530
Std Dev	45.73	1.000
61	45.53	2.306
61	45.46	2.711

041.10		Direct Available Phosphate
Lab		Gravimetric Quimociac
107	45.74	-1.340
Std Dev	45.73	-1.000
Median	45.70	0.000
Std Dev	45.67	1.000
219	45.66	1.340

041.20		Direct Available Phosphate
Lab		Spectrometric
275	46.21	-1.340
Std Dev	46.17	-1.000
Median	46.04	0.000
Std Dev	45.91	1.000
275	45.87	1.340

041.40		Direct Available Phosphate
Lab		Automated
49	45.55	-1.340
Std Dev	45.41	-1.000
Median	45.00	0.000
Std Dev	44.59	1.000
103	44.46	1.340

041.50		Direct Available Phosphate
Lab		ICP
63	49.77	-4.587
Std Dev	46.81	-1.000
80	46.05	-0.076
Median	45.99	0.000
47	45.93	0.076
66	45.73	0.318

041.60		Direct Available Phosphate
Lab		EDTA Extract
29	46.67	-1.367
Std Dev	46.48	-1.000
77	46.19	-0.419
Median	45.97	0.000
219	45.76	0.419
Std Dev	45.46	1.000
137	45.21	1.480

041.XX		Direct Available Phosphate
Lab		Total Method
63	49.77	-11.077
29	46.67	-2.406
275	46.21	-1.113
77	46.19	-1.043
Std Dev	46.17	-1.000
80	46.05	-0.665
47	45.93	-0.315
275	45.87	-0.161
Median	45.81	0.000
219	45.76	0.161
107	45.74	0.203
66	45.73	0.245
219	45.66	0.441
49	45.55	0.749
Std Dev	45.46	1.000

137 45.21 1.686
103 44.46 3.800

048.20 Water Soluble Phosphate Spectrometric		
Lab		
9	41.43	-2.483
Std Dev	41.24	-1.000
23	41.22	-0.867
23	41.12	-0.079
61	41.12	-0.039
24	41.11	0.000
31	41.11	0.000
Median	41.11	0.000
79	41.03	0.631
24	41.00	0.867
Std Dev	40.98	1.000
61	40.90	1.695
275	39.39	13.558
275	39.27	14.504

048.99 Water Soluble Phosphate Other		
Lab		
34	40.74	-2.297
Std Dev	40.71	-1.000
32	40.68	0.000
Median	40.68	0.000
32	40.67	0.383

048.XX Water Soluble Phosphate Total Method		
Lab		
9	41.43	-1.312
Std Dev	41.33	-1.000
23	41.22	-0.656
23	41.12	-0.336
61	41.12	-0.320
24	41.11	-0.304
31	41.11	-0.304
79	41.03	-0.048
Median	41.02	0.000
24	41.00	0.048
61	40.90	0.384
34	40.74	0.880
Std Dev	40.70	1.000
32	40.68	1.072

32 40.67 1.104
275 39.39 5.200
275 39.27 5.584

050.50 %K ₂ O Soluble Potash ICP(Oxalate)		
Lab		
23	0.15	0.000
23	0.15	0.000
Median	0.15	0.000
Std Dev	0.14	1.000
99	0.13	2.680

050.51 %K ₂ O Soluble Potash ICP(Citrate)		
Lab		
137	0.17	0.000
Median	0.17	0.000

050.99 Soluble Potash Other		
Lab	%K ₂ O	
24	0.18	-11.194
Std Dev	0.16	-1.000
43	0.16	-0.388
24	0.16	0.000
61	0.16	0.000
Median	0.16	0.000
Std Dev	0.16	1.000
43	0.16	1.398
80	0.15	5.597

050.XX Soluble Potash Total Method		
Lab	%K ₂ O	
24	0.18	-2.707
137	0.17	-1.433
Std Dev	0.17	-1.000
43	0.16	-0.247
24	0.16	-0.159
61	0.16	-0.159
Median	0.16	0.000
43	0.16	0.159
Std Dev	0.15	1.000
80	0.15	1.115
23	0.15	1.115
23	0.15	1.115
99	0.13	3.662

060.00 Free Water Vacuum Oven		
Lab		

32	2.18	-2.971
31	2.15	-2.563
32	2.14	-2.505
Std Dev	2.01	-1.000
23	1.96	-0.408
24	1.96	-0.408
43	1.94	-0.117
23	1.93	0.000
Median	1.93	0.000
24	1.90	0.291
79	1.88	0.583
9	1.85	0.932
34	1.84	0.990
Std Dev	1.84	1.000
14	1.00	10.837
14	0.98	11.070

060.10 Free Water Vacuum Desiccate		
Lab		

61	4.53	0.000
Median	4.53	0.000

060.99 Free Water Other		
Lab		

275	1.92	-1.340
Std Dev	1.91	-1.000
Median	1.89	0.000
Std Dev	1.87	1.000
275	1.86	1.340

060.XX Free Water Total Method		
Lab		

61	4.53	-23.489
32	2.18	-2.320
31	2.15	-2.004
32	2.14	-1.959
Std Dev	2.03	-1.000
23	1.96	-0.338
24	1.96	-0.338
43	1.94	-0.113
23	1.93	-0.023

Median 1.92 0.000		
Lab		
275	1.92	0.023
24	1.90	0.203
79	1.88	0.428
275	1.86	0.563
9	1.85	0.698
34	1.84	0.743
Std Dev	1.81	1.000
14	1.00	8.355
14	0.98	8.535

101.30 Acid Soluble Calcium ICP		
Lab	%CaO	

32	0.32	-2.680
32	0.29	-1.443
24	0.28	-1.031
61	0.28	-1.031
Std Dev	0.28	-1.000
34	0.27	-0.618
24	0.26	-0.206
31	0.26	-0.041
23	0.26	0.000
Median	0.26	0.000
9	0.25	0.206
14	0.25	0.206
14	0.25	0.412
23	0.24	0.618
43	0.23	0.992
Std Dev	0.23	1.000
43	0.23	1.185
315	0.23	1.237

101.XX Acid Soluble Calcium Total Method		
Lab	%CaO	

32	0.32	-2.680
32	0.29	-1.443
24	0.28	-1.031
61	0.28	-1.031
Std Dev	0.28	-1.000
34	0.27	-0.618
24	0.26	-0.206
31	0.26	-0.041
23	0.26	0.000
Median	0.26	0.000

9	0.25	0.206
14	0.25	0.206
14	0.25	0.412
23	0.24	0.618
43	0.23	0.992
Std Dev	0.23	1.000
43	0.23	1.185
315	0.23	1.237

121.30 Acid Soluble Magnesium		
Lab	%MgO	ICP
24	1.43	-1.056
Std Dev	1.43	-1.000
23	1.42	-0.893
32	1.42	-0.893
61	1.42	-0.893
23	1.41	-0.731
24	1.41	-0.731
9	1.38	-0.162
315	1.37	0.000
Median	1.37	0.000
34	1.36	0.081
31	1.36	0.162
14	1.34	0.487
14	1.33	0.568
32	1.32	0.812
Std Dev	1.30	1.000
43	1.28	1.381
43	1.28	1.381

121.XX Acid Soluble Magnesium		
Lab	%MgO	Total Method
24	1.43	-1.056
Std Dev	1.43	-1.000
23	1.42	-0.893
32	1.42	-0.893
61	1.42	-0.893
23	1.41	-0.731
24	1.41	-0.731
9	1.38	-0.162
315	1.37	0.000
Median	1.37	0.000
34	1.36	0.081
31	1.36	0.162

14	1.34	0.487
14	1.33	0.568
32	1.32	0.812
Std Dev	1.30	1.000
43	1.28	1.381
43	1.28	1.381

144..01 Sulfate Sulfur (S)		
Lab		Gravimetric
79	2.39	0.000
Median	2.39	0.000

144.70 Sulfur		
Lab		Spectrometric
14	2.39	-1.340
Std Dev	2.39	-1.000
Median	2.38	0.000
Std Dev	2.37	1.000
14	2.37	1.340

144.99 Sulfate Sulfur (S)		
Lab		Other
275	2.47	-2.632
32	2.41	-1.484
Std Dev	2.38	-1.000
23	2.38	-0.909
23	2.37	-0.718
32	2.36	-0.431
275	2.34	-0.144
Median	2.33	0.000
61	2.33	0.144
9	2.32	0.335
34	2.31	0.431
Std Dev	2.28	1.000
24	2.28	1.005
24	2.27	1.196
31	2.20	2.632

144.XX Sulfate Sulfur (S)		
Lab		Total Method
275	2.47	-2.201
32	2.41	-1.053
Std Dev	2.41	-1.000
14	2.39	-0.670

79	2.39	-0.574
23	2.38	-0.479
14	2.37	-0.287
23	2.37	-0.287
32	2.36	0.000
Median	2.36	0.000
275	2.34	0.287
61	2.33	0.574
9	2.32	0.766
34	2.31	0.861
Std Dev	2.30	1.000
24	2.28	1.436
24	2.27	1.627
31	2.20	3.063

145.99 Total Sulfur (S)		
Lab		Other
43	2.41	-0.536
43	2.39	0.000
Median	2.39	0.000
Std Dev	2.35	1.000
315	2.31	2.144

145.XX Total Sulfur (S)		
Lab		Total Method
43	2.41	-0.536
43	2.39	0.000
Median	2.39	0.000
Std Dev	2.35	1.000
315	2.31	2.144

151.30 Total Arsenic		
Lab		ICP
43	16.55	-1.449
43	16.35	-1.378
Std Dev	15.29	-1.000
18	15.00	-0.895
315	12.69	-0.070
Median	12.50	0.000
61	12.30	0.070
24	12.10	0.141
9	10.05	0.874
Std Dev	9.70	1.000
31	9.20	1.177

151.XX Total Arsenic		
Lab		Total Method
43	16.55	-1.449
43	16.35	-1.378
Std Dev	15.29	-1.000
18	15.00	-0.895
315	12.69	-0.070
Median	12.50	0.000
61	12.30	0.070
24	12.10	0.141
9	10.05	0.874
Std Dev	9.70	1.000
31	9.20	1.177

165.99 Acid Soluble Boron		
Lab	PPM	Other
24	62.70	0.000
Median	62.70	0.000

165.XX, ppm Acid Soluble Boron		
Lab	PPM	Total Method
24	62.70	0.000
Median	62.70	0.000

181.30 Total Cadmium		
Lab	PPM	ICP
61	18.00	-2.344
315	17.62	-1.863
Std Dev	16.94	-1.000
43	16.72	-0.722
18	16.30	-0.190
Median	16.15	0.000
61	16.00	0.190
9	15.95	0.253
43	15.70	0.570
Std Dev	15.36	1.000
31	11.65	5.702

181.99 Total Cadmium		
Lab		Other
24	16.70	0.000
Median	16.70	0.000

181.XX Total Cadmium		
Lab	PPM	Total Method
61	18.00	-2.958
315	17.62	-2.297
Std Dev	16.87	-1.000
43	16.72	-0.731
24	16.70	-0.696
18	16.30	0.000
Median	16.30	0.000
61	16.00	0.522
9	15.95	0.609
Std Dev	15.73	1.000
43	15.70	1.044
31	11.65	8.092

190.00 Aluminum		
Lab	%Al ₂ O ₃	ICP
32	1.42	-1.870
9	1.41	-1.620
Std Dev	1.39	-1.000
14	1.39	-0.997
14	1.39	-0.997
43	1.36	-0.374
34	1.35	-0.125
315	1.35	-0.125
Median	1.35	0.000
24	1.34	0.125
24	1.34	0.125
23	1.33	0.499
61	1.33	0.499
32	1.32	0.748
43	1.32	0.748
23	1.31	0.873

190.99 Aluminum		
Lab	%Al ₂ O ₃	Atomic Absorption
31	1.35	0.000
Median	1.35	0.000

190.XX Aluminum		
Lab	%Al ₂ O ₃	Total Method
32	1.42	-1.975
9	1.41	-1.693
Std Dev	1.39	-1.000

14	1.39	-0.987
14	1.39	-0.987
43	1.36	-0.282
31	1.35	0.000
34	1.35	0.000
315	1.35	0.000
Median	1.35	0.000
24	1.34	0.282
24	1.34	0.282
23	1.33	0.705
61	1.33	0.705
32	1.32	0.987
43	1.32	0.987
Std Dev	1.31	1.000
23	1.31	1.128

191.30 Total Chromium		
Lab	PPM	ICP
315	164.00	-1.749
31	163.15	-1.523
Std Dev	161.18	-1.000
43	158.50	-0.286
9	158.35	-0.246
Median	157.43	0.000
61	156.50	0.246
61	155.00	0.645
Std Dev	153.67	1.000
43	153.50	1.044
18	146.50	2.906

191.99 Total Chromium		
Lab	PPM	Other
24	161.00	0.000
Median	161.00	0.000

191.XX Total Chromium		
Lab	PPM	Total Method
315	164.00	-1.262
31	163.15	-1.072
Std Dev	162.83	-1.000
24	161.00	-0.592
43	158.50	-0.034
9	158.35	0.000
Median	158.35	0.000

61	156.50	0.413
61	155.00	0.748
Std Dev	153.87	1.000
43	153.50	1.083
18	146.50	2.647

202.30 Acid Soluble Cobalt		
Lab	PPM	ICP
61		

202.99 Acid Soluble Cobalt		
Lab	PPM	Other
24	2.15	0.000
Median	2.15	0.000

202.XX Acid Soluble Cobalt		
Lab	PPM	Total Method
61	3.30	-2.201
61	3.00	-1.627
Std Dev	2.67	-1.000
18	2.40	-0.479
24	2.15	0.000
Median	2.15	0.000
43	2.00	0.287
43	2.00	0.287
Std Dev	1.63	1.000
31	1.63	1.005

221.30 Acid Soluble Copper		
Lab	PPM	ICP
43	4.00	-0.489
43	4.00	-0.489
61	4.00	-0.489
Median	3.65	0.000
18	3.30	0.489
315	2.96	0.971
Std Dev	2.93	1.000
31	1.62	2.837

221.99 Acid Soluble Copper		
Lab	PPM	Other
24	1.99	0.000
Median	1.99	0.000

221.XX Acid Soluble Copper		
Lab	PPM	Total Method
43	4.00	-0.614
43	4.00	-0.614
61	4.00	-0.614
18	3.30	0.000
Median	3.30	0.000
315	2.96	0.303
Std Dev	2.16	1.000
24	1.99	1.149
31	1.62	1.474

241.30 Acid Soluble Iron		
Lab	%Fe ₂ O ₃	ICP
24	1.19	-2.144
32	1.18	-1.608
Std Dev	1.16	-1.000
14	1.15	-0.715
24	1.15	-0.715
14	1.15	-0.536
34	1.14	-0.357
61	1.14	-0.179
23	1.13	0.000
32	1.13	0.000
Median	1.13	0.000
9	1.12	0.536
23	1.12	0.536
43	1.11	0.893
Std Dev	1.10	1.000
31	1.10	1.072
43	1.09	1.429
315	1.07	2.144

241.XX Acid Soluble Iron		
Lab	%Fe ₂ O ₃	Total Method
24	1.19	-2.144
32	1.18	-1.608
Std Dev	1.16	-1.000
14	1.15	-0.715
24	1.15	-0.715
14	1.15	-0.536
34	1.14	-0.357
61	1.14	-0.179
23	1.13	0.000

32	1.13	0.000
Median	1.13	0.000
9	1.12	0.536
23	1.12	0.536
43	1.11	0.893
Std Dev	1.10	1.000
31	1.10	1.072
43	1.09	1.429
315	1.07	2.144

251.30	Total Lead	
Lab	PPM	ICP
18	2.05	-1.070
Std Dev	1.98	-1.000
43	1.80	-0.802
43	1.60	-0.588
Median	1.05	0.000
315	0.51	0.588
61	0.50	0.593
9	0.35	0.754

251.99	Total Lead	
Lab		Other
24	0.48	0.000
Median	0.48	0.000

251.XX	Total Lead	
Lab	PPM	Total Method
18	2.05	-1.711
43	1.80	-1.434
43	1.60	-1.213
Std Dev	1.41	-1.000
315	0.51	0.000
Median	0.51	0.000
61	0.50	0.006
24	0.48	0.028
9	0.35	0.172

261.30	Acid Soluble Manganese	
Lab		ICP
315	232.00	-0.580
9	230.25	-0.193
Median	229.38	0.000
31	228.50	0.193

Std Dev	224.85	1.000
18	213.00	3.619

261.99	Acid Soluble Manganese	
Lab	PPM	Other
43	246.50	-1.288
Std Dev	243.70	-1.000
43	243.50	-0.979
24	234.00	0.000
Median	234.00	0.000
61	230.50	0.361
61	225.50	0.876

261.XX	Acid Soluble Manganese	
Lab	PPM	Total Method
43	246.50	-3.898
43	243.50	-3.167
Std Dev	234.60	-1.000
24	234.00	-0.853
315	232.00	-0.365
61	230.50	0.000
Median	230.50	0.000
9	230.25	0.061
31	228.50	0.487
Std Dev	226.40	1.000
61	225.50	1.218
18	213.00	4.264

281.30	Total Mercury	
Lab	PPM	ICP
315	0.09	-1.340
Std Dev	0.08	-1.000
Median	0.07	0.000
Std Dev	0.05	1.000
24	0.05	1.340

281.XX	Total Mercury	
Lab	PPM	Total Method
315	0.09	-1.340
Std Dev	0.08	-1.000
Median	0.07	0.000
Std Dev	0.05	1.000
24	0.05	1.340

289.30	Total Molybdenum	
Lab	PPM	ICP
18		

289.99	Total Molybdenum	
Lab	PPM	Other
24	10.70	0.000
Median	10.70	0.000

289.XX	Total Molybdenum	
Lab	PPM	Total Method
24	10.70	-1.761
Std Dev	9.95	-1.000
18	9.80	-0.842
315	9.65	-0.689
43	9.05	-0.077
Median	8.98	0.000
43	8.90	0.077
61	8.50	0.485
61	8.00	0.995
Std Dev	8.00	1.000
31	6.30	2.731

291.30	Total Nickel	
Lab		ICP
61		

291.99	Total Nickel	
Lab	PPM	Other
24	21.60	0.000
Median	21.60	0.000

291.XX	Total Nickel	
Lab	PPM	Total Method

301.30	Total Selenium	
Lab	PPM	ICP
18	2.10	-1.800
Std Dev	1.52	-1.000
24	1.14	-0.481
Median	0.79	0.000
315	0.44	0.481
61	0.30	0.673

301.XX	Total Selenium	
Lab	PPM	Total Mthod

18	2.10	-1.800
Std Dev	1.52	-1.000
24	1.14	-0.481
Median	0.79	0.000
315	0.44	0.481
61	0.30	0.673

311.99	Sodium	
Lab	%Na ₂ O	Other
24	0.20	-1.608
24	0.19	-1.072
Std Dev	0.19	-1.000
23	0.19	-0.804
23	0.18	-0.536
31	0.17	0.000
61	0.17	0.000
Median	0.17	0.000
315	0.16	0.536
43	0.16	0.595
43	0.15	0.988

311.XX	Sodium	
Lab	%Na ₂ O	Total Method
24	0.20	-1.608
24	0.19	-1.072
Std Dev	0.19	-1.000
23	0.19	-0.804
23	0.18	-0.536
31	0.17	0.000
61	0.17	0.000
Median	0.17	0.000
315	0.16	0.536
43	0.16	0.595
43	0.15	0.988

321.30	Acid Soluble Zinc	
Lab	PPM	ICP
24	245.00	-2.509
31	240.45	-2.053
Std Dev	229.96	-1.000
315	221.00	-0.100
61	220.00	0.000
Median	220.00	0.000
9	218.75	0.125

18	216.00	0.401
61	215.50	0.452

321.99 Acid Soluble Zinc		
Lab		Other
43	208.50	-1.340
Std Dev	208.31	-1.000
Median	207.75	0.000
Std Dev	207.19	1.000
43	207.00	1.340

321.XX Acid Soluble Zinc		
Lab	PPM	Total Method
24	245.00	-6.395
31	240.45	-5.287
Std Dev	222.85	-1.000
315	221.00	-0.548
61	220.00	-0.305
9	218.75	0.000
Median	218.75	0.000
18	216.00	0.670
61	215.50	0.792
Std Dev	214.65	1.000
43	208.50	2.497
43	207.00	2.863

325.10 Fluoride		
Lab	%	Electrode
32	1.01	-1.649
24	0.95	-0.515
32	0.95	-0.515
23	0.95	-0.412
23	0.95	-0.412
24	0.93	-0.103
79	0.93	0.000
Median	0.93	0.000
275	0.91	0.309
275	0.89	0.722
34	0.88	0.928
14	0.85	1.649
14	0.84	1.752
31	0.80	2.680

325.99 Fluoride		
Lab	%	Other
61	1.00	-1.340
Median	0.96	0.000
61	0.93	1.340

325.XX Fluoride		
Lab	%	Total Method
32	1.01	-1.608
61	1.00	-1.394
24	0.95	-0.429
32	0.95	-0.429
23	0.95	-0.322
23	0.95	-0.322
24	0.93	0.000
61	0.93	0.000
Median	0.93	0.000
79	0.93	0.107
275	0.91	0.429
275	0.89	0.858
34	0.88	1.072
14	0.85	1.822
14	0.84	1.930
31	0.80	2.894

291.XX Total Nickel	
Lab	PPM Total Method
24	21.6
61	21.0
StDev	20.6
61	20.0
43	19.5
Median	18.8
9	18.8
315	18.4
43	18.0
18	17.8
StDev	17.0
31	13.1