

## AFPC

2016-06

Grade

11-52-0

## Sample

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
<b>AMMONIACAL NITROGEN</b>					
Ammoniacal Nitrogen, Other		001.99	11	11.17	0.09
Method Group 001.XX PCT			11	11.17	0.11
<b>TOTAL NITROGEN</b>					
Total Nitrogen, Modified Comprehensive	978.02	010.11	1	11.16	0.00
Total Nitrogen, Combustion	993.13	010.60	15	11.19	0.07
Total Nitrogen, Other		010.99	3	11.18	0.07
Method Group 010.XX PCT			19	11.18	0.08
<b>TOTAL PHOSPHATE</b>					
Total Phosphate, Gravimetric Quimociac		020.10	1	54.53	0.00
Total Phosphate, Spectrometric	978.02	020.20	17	53.57	0.38
Total Phosphate, ICP	970.03	020.40	4	53.56	0.37
Method Group 020.XX PCT			22	53.58	0.44
<b>INSOLUBLE PHOSPHATE</b>					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	7	0.67	0.16
Insoluble Phosphate, Automated	978.01	030.40	3	0.67	0.10
Insoluble Phosphate, Other		030.99	1	0.49	0.00
Method Group 030.XX PCT			11	0.67	0.19
<b>INDIRECT AVAILABLE PHOSPHATE</b>					
Indirect Available Phosphate, Spectrometric	960.02	040.20	9	53.04	0.27
Indirect Available Phosphate, Automated	960.02	040.40	2	52.86	0.11
Indirect Available Phosphate, Other		040.99	1	53.32	0.00
Method Group 040.XX PCT			12	53.02	0.33
<b>DIRECT AVAILABLE PHOSPHATE</b>					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	1	53.78	0.00
Direct Available Phosphate, Spectrometric	960.03D	041.20	1	53.04	0.00
Direct Available Phosphate, ICP		041.50	2	52.28	0.46
Direct Available Phosphate, EDTA Extract	993.01	041.60	5	52.05	0.88
Method Group 041.XX PCT			9	52.89	1.18
<b>WATER SOLUBLE PHOSPHATE</b>					
Water Soluble Phosphate, Spectrometric	970.01	048.20	11	48.40	0.44
Water Soluble Phosphate, Other		048.99	4	48.55	1.26
Method Group 048.XX PCT			15	48.40	0.60
<b>SOLUBLE POTASH AS K<sub>2</sub>O</b>					
Soluble Potash, ICP(Oxalate)		050.50	2	0.17	0.00
Soluble Potash, ICP(Citrate)		050.51	1	0.20	0.00
Soluble Potash, Other		050.99	4	0.18	0.01
Method Group 050.XX PCT			7	0.17	0.02
<b>FREE WATER</b>					
Free Water, Vacuum Oven	965.08B	060.00	12	0.88	0.08
Free Water, Other		060.99	2	0.86	0.02
Method Group 060.XX PCT			14	0.88	0.08
<b>ACID SOLUBLE CALCIUM AS CaO</b>					
Acid Soluble Calcium, Atomic Absorption	945.04	101.00	1	0.24	0.00
Acid Soluble Calcium, ICP		101.30	13	0.40	0.03
Acid Soluble Calcium, Other		101.99	1	0.25	0.00
Method Group 101.XX PCT			15	0.39	0.05
<b>ACID SOLUBLE MAGNESIUM AS MgO</b>					
Acid Soluble Magnesium, Atomic Absorption	984.01	121.00	1	0.72	0.00
Acid Soluble Magnesium, ICP		121.30	13	0.93	0.02
Acid Soluble Magnesium, Other		121.99	1	0.77	0.00
Method Group 121.XX PCT			15	0.93	0.04
<b>SULFATE SULFUR (S)</b>					
Sulfur, Spectrometric		144.70	2	2.63	0.00
Sulfur, Other		144.99	10	1.46	0.01
Method Group 144.XX PCT			12	1.47	0.02
<b>TOTAL ARSENIC</b>					

Total Arsenic, ICP	980.02(b)	151.02	4	12.3	1.4
Method Group 151.XX PPM			4	12.3	1.6
<b>ACID SOLUBLE BORON</b>					
Acid Soluble Boron, Other		165.99	1	34	0.0
Method Group 165.XX PPM			1	34	0.0
<b>TOTAL CADMIUM</b>					
Total Cadmium, ICP		181.30	3	3.1	0.6
Total Cadmium, Other		181.99	1	4.7	0.0
Method Group 181.XX PPM			4	3.7	1.3
<b>ALUMINUM AS Al<sub>2</sub>O<sub>3</sub></b>					
ICP, %			13	1.95	0.09
Water Soluble Chlorine, Other, %		190.99	1	1.98	0.00
Method Group 190.XX PCT			14	1.96	0.10
<b>TOTAL CHROMIUM</b>					
Total Chromium, ICP		191.30	3	108	8.5
Total Chromium, Other		191.99	1	96	0.0
Method Group 191.XX PPM			4	102	13.1
<b>ACID SOLUBLE COBALT</b>					
Acid Soluble Cobalt, ICP		202.30	3	4	0.6
Acid Soluble Cobalt, Other		202.99	1	3	0.0
Method Group 202.XX PPM			4	3	0.6
<b>ACID SOLUBLE COPPER</b>					
Acid Soluble Copper, ICP		221.30	5		
Acid Soluble Copper, Other		221.99	1	5.0	0.0
Method Group 221.XX PPM			1	0.7	0.0
<b>ACID SOLUBLE IRON AS Fe<sub>2</sub>O<sub>3</sub></b>					
Acid Soluble Iron, ICP		241.30	14	1.24	0.02
Acid Soluble Iron, Other		241.99	1	1.29	0.00
Method Group 241.XX PCT			16	1.25	0.04
<b>TOTAL LEAD</b>					
Total Lead, ICP		251.30	3	8	4.0
Total Lead, Other		251.99	1	1.4	0.0
Method Group 251.XX PPM			4	5	7.0
<b>ACID SOLUBLE MANGANESE</b>					
Acid Soluble Manganese, ICP	972.02a	261.30	1	492	0.0
Acid Soluble Manganese, Other		261.99	5	515	13.1
Method Group 261.XX PPM			6	508	16.7
<b>TOTAL MERCURY</b>					
Total Mercury, ICP		281.30	1	0.00	0.00
Method Group 281.XX PPM			1	0.00	0.00
<b>TOTAL MOLYBDENUM</b>					
Total Molybdenum, ICP		289.30	3	22	3.9
Total Molybdenum, Other		289.99	1	19	0.0
Method Group 289.XX PPM			4	20	3.8
<b>TOTAL NICKEL</b>					
Total Nickel, ICP		291.30	3	12.8	1.9
Total Nickel, icp		291.99	1	14.3	0.0
Method Group 291.XX PPM			4	13.5	2.2
<b>TOTAL SELENIUM</b>					
Total Selenium, ICP		301.30	1	0.2	0.0
Total Selenium, Other		301.99	2		0.0
Method Group 301.XX PPM			3	0.0	0.1
<b>SODIUM AS Na<sub>2</sub>O</b>					
Sodium, Other		311.99	7	0.23	0.01
Method Group 311.XX PCT			7	0.23	0.01
<b>ACID SOLUBLE ZINC</b>					
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	1	305.9	0.0
Acid Soluble Zinc, ICP		321.30	4	314.5	17.6
Acid Soluble Zinc, Other		321.99	1	321.1	0.0
Method Group 321.XX %			6	313.5	17.1
<b>FLUORIDE</b>					
Volumetric		325.10	9	1.62	0.07

Distilled/Electrode	325.99	4	1.60	0.03
Method Group 325.XX PCT		13	1.61	0.06

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001.99 Ammoniacal Nitrogen		
Lab		Other
140	11.43	-2.844
32	11.29	-1.313
<b>Std Dev</b>	<b>11.26</b>	<b>-1.000</b>
34	11.23	-0.656
24	11.21	-0.438
32	11.18	-0.055
24	11.17	0.000
<b>Median</b>	<b>11.17</b>	<b>0.000</b>
23	11.13	0.492
38	11.11	0.711
23	11.09	0.875
61	11.09	0.930
<b>Std Dev</b>	<b>11.08</b>	<b>1.000</b>
61	11.06	1.258

001.XX Ammoniacal Nitrogen		
Lab		Total Method
140	11.43	-2.844
32	11.29	-1.313
<b>Std Dev</b>	<b>11.26</b>	<b>-1.000</b>
34	11.23	-0.656
24	11.21	-0.438
32	11.18	-0.055
24	11.17	0.000
<b>Median</b>	<b>11.17</b>	<b>0.000</b>
23	11.13	0.492
38	11.11	0.711
23	11.09	0.875
61	11.09	0.930
<b>Std Dev</b>	<b>11.08</b>	<b>1.000</b>
61	11.06	1.258

010.11 Total Nitrogen		
Lab		Modified Comprehensive
219	11.16	0.000
<b>Median</b>	<b>11.16</b>	<b>0.000</b>

010.60 Total Nitrogen		
Lab		Combustion
66	11.45	-3.694
219	11.33	-1.956
39	11.26	-1.043

<b>Std Dev</b>	<b>11.26</b>	<b>-1.000</b>
14	11.22	-0.435
110	11.20	-0.145
137	11.20	-0.145
14	11.19	0.000
29	11.19	0.000
<b>Median</b>	<b>11.19</b>	<b>0.000</b>
77	11.16	0.507
24	11.14	0.724
9	11.13	0.942
<b>Std Dev</b>	<b>11.12</b>	<b>1.000</b>
24	11.11	1.159
9	11.09	1.521
63	11.00	2.752
103	10.81	5.505

010.99 Total Nitrogen		
Lab		Other
32	11.29	-1.618
<b>Std Dev</b>	<b>11.25</b>	<b>-1.000</b>
32	11.18	0.000
<b>Median</b>	<b>11.18</b>	<b>0.000</b>
<b>Std Dev</b>	<b>11.10</b>	<b>1.000</b>
38	11.10	1.062

010.XX Total Nitrogen		
Lab		Total Method
66	11.45	-3.911
219	11.33	-2.173
32	11.29	-1.666
39	11.26	-1.260
<b>Std Dev</b>	<b>11.24</b>	<b>-1.000</b>
14	11.22	-0.652
110	11.20	-0.362
137	11.20	-0.362
14	11.19	-0.217
29	11.19	-0.217
32	11.18	0.000
<b>Median</b>	<b>11.18</b>	<b>0.000</b>
77	11.16	0.290
219	11.16	0.290
24	11.14	0.507
9	11.13	0.724
24	11.11	0.942

<b>Std Dev</b>	<b>11.11</b>	<b>1.000</b>
38	11.10	1.094
9	11.09	1.304
63	11.00	2.535
103	10.81	5.288

020.10 Total Phosphate		
Lab		Gravimetric Quimociac
219	54.53	0.000
<b>Median</b>	<b>54.53</b>	<b>0.000</b>

020.20 Total Phosphate		
Lab		Spectrometric
61	54.18	-1.587
31	54.17	-1.548
32	54.04	-1.223
34	53.99	-1.093
<b>Std Dev</b>	<b>53.95</b>	<b>-1.000</b>
9	53.92	-0.898
61	53.79	-0.572
24	53.74	-0.442
9	53.68	-0.273
140	53.57	0.000
<b>Median</b>	<b>53.57</b>	<b>0.000</b>
32	53.48	0.247
14	53.47	0.260
14	53.46	0.299
24	53.40	0.442
23	53.40	0.455
23	53.25	0.833
<b>Std Dev</b>	<b>53.19</b>	<b>1.000</b>
38	52.82	1.951
110	51.75	4.736

020.40 Total Phosphate		
Lab		Automated
219	53.83	-0.735
9	53.58	-0.068
<b>Median</b>	<b>53.56</b>	<b>0.000</b>
9	53.53	0.068
<b>Std Dev</b>	<b>53.19</b>	<b>1.000</b>
137	52.01	4.217

020.XX Total Phosphate		
Lab		Total Method
219	54.53	-2.659
61	54.18	-1.693
31	54.17	-1.651
32	54.04	-1.302
34	53.99	-1.162
<b>Std Dev</b>	<b>53.93</b>	<b>-1.000</b>
9	53.92	-0.952
219	53.83	-0.700
61	53.79	-0.602
24	53.74	-0.462
9	53.68	-0.280
9	53.58	-0.014
<b>Median</b>	<b>53.58</b>	<b>0.000</b>
140	53.57	0.014
9	53.53	0.126
32	53.48	0.280
14	53.47	0.294
14	53.46	0.336
24	53.40	0.490
23	53.40	0.504
23	53.25	0.910
<b>Std Dev</b>	<b>53.22</b>	<b>1.000</b>
38	52.82	2.113
137	52.01	4.394
110	51.75	5.108

030.20 Insoluble Phosphate		
Lab		Spectrometric
61	0.91	-1.531
61	0.90	-1.500
<b>Std Dev</b>	<b>0.82</b>	<b>-1.000</b>
24	0.70	-0.223
23	0.67	0.000
<b>Median</b>	<b>0.67</b>	<b>0.000</b>
24	0.65	0.128
140	0.54	0.830
23	0.53	0.893

030.40 Insoluble Phosphate		
Lab		Automated
9	0.84	-1.701
<b>Std Dev</b>	<b>0.77</b>	<b>-1.000</b>

34	0.67	0.000
Median	0.67	0.000
9	0.58	0.979

030.99 Insoluble Phosphate		
Lab		Other
32	0.49	0.000
Median	0.49	0.000

030.XX Insoluble Phosphate		
Lab		Total Method
61	0.91	-1.513
61	0.90	-1.482
9	0.84	-1.072
Std Dev	0.82	-1.000
24	0.70	-0.221
34	0.67	-0.032
23	0.67	0.000
Median	0.67	0.000
24	0.65	0.126
9	0.58	0.568
140	0.54	0.820
23	0.53	0.883
Std Dev	0.51	1.000
32	0.49	1.104

040.20 Indirect Available Phosphate		
Lab		Spectrometric
61	53.28	-0.899
9	53.10	-0.239
24	53.10	-0.220
9	53.05	-0.055
140	53.04	0.000
Median	53.04	0.000
61	52.89	0.551
Std Dev	52.76	1.000
23	52.73	1.120
23	52.73	1.138
24	52.70	1.230

040.40 Indirect Available Phosphate		
Lab		Automated
9	53.01	-1.340
Std Dev	52.97	-1.000

Median	52.86	0.000
Std Dev	52.74	1.000
9	52.71	1.340

040.99 Indirect Available Phosphate		
Lab		Other
34	53.32	0.000
Median	53.32	0.000

040.XX Indirect Available Phosphate		
Lab		Total Method
34	53.32	-1.094
Std Dev	53.29	-1.000
61	53.28	-0.948
9	53.10	-0.292
24	53.10	-0.273
9	53.05	-0.109
140	53.04	-0.055
Median	53.02	0.000
9	53.01	0.055
61	52.89	0.492
Std Dev	52.75	1.000
23	52.73	1.057
23	52.73	1.076
9	52.71	1.149
24	52.70	1.167

041.10 Direct Available Phosphate		
Lab		Gravimetric Quimociac
219	53.78	0.000
Median	53.78	0.000

041.20 Direct Available Phosphate		
Lab		Spectrometric
38	53.04	0.000
Median	53.04	0.000

041.50 Direct Available Phosphate		
Lab		ICP
63	52.89	-1.340
Std Dev	52.74	-1.000
Median	52.28	0.000
Std Dev	51.82	1.000
66	51.67	1.340

041.60 Direct Available Phosphate		
Lab		EDTA Extract
219	53.55	-1.712
Std Dev	52.92	-1.000
29	52.92	-0.999
77	52.05	0.000
Median	52.05	0.000
137	51.75	0.341
103	51.23	0.933

041.XX Direct Available Phosphate		
Lab		Total Method
219	53.78	-0.921
219	53.55	-0.683
38	53.04	-0.155
29	52.92	-0.034
63	52.89	0.000
Median	52.89	0.000
77	52.05	0.874
Std Dev	51.92	1.000
137	51.75	1.185
66	51.67	1.262
103	51.23	1.723

048.20 Water Soluble Phosphate		
Lab		Spectrometric
61	49.01	-1.374
Std Dev	48.84	-1.000
9	48.68	-0.631
140	48.59	-0.439
9	48.55	-0.349
61	48.51	-0.248
24	48.40	0.000
Median	48.40	0.000
24	48.36	0.079
14	48.08	0.709
Std Dev	47.95	1.000
23	47.87	1.182
23	47.86	1.205
14	47.52	1.982

048.99 Water Soluble Phosphate		
Lab		Other

32	48.77	-0.179
32	48.75	-0.163
Median	48.55	0.000
34	48.34	0.163
Std Dev	47.29	1.000
39	43.26	4.203

048.XX Water Soluble Phosphate		
Lab		Total Method
61	49.01	-1.243
Std Dev	48.89	-1.000
32	48.77	-0.764
32	48.75	-0.723
9	48.68	-0.571
140	48.59	-0.397
9	48.55	-0.316
61	48.51	-0.224
24	48.40	0.000
Median	48.40	0.000
24	48.36	0.071
34	48.34	0.112
14	48.08	0.642
Std Dev	47.90	1.000
23	47.87	1.070
23	47.86	1.090
14	47.52	1.793
39	43.26	10.465

050.50 %K <sub>2</sub> O Soluble Potash		
Lab		ICP(Oxalate)
23	0.17	-1.340
Std Dev	0.17	-1.000
Median	0.17	0.000
Std Dev	0.16	1.000
23	0.16	1.340

050.51 %K <sub>2</sub> O Soluble Potash		
Lab		ICP(Citrate)
137	0.20	0.000
Median	0.20	0.000

050.99 Soluble Potash		
Lab	%K <sub>2</sub> O	Other
61	0.19	-1.340

Std Dev	0.19	-1.000
61	0.18	-0.447
Median	0.18	0.000
24	0.17	0.447
Std Dev	0.16	1.000
24	0.16	1.340

050.XX		Soluble Potash
Lab	%K <sub>2</sub> O	Total Method
137	0.20	-1.675
61	0.19	-1.340
Std Dev	0.18	-1.000
61	0.18	-0.670
23	0.17	0.000
24	0.17	0.000
Median	0.17	0.000
23	0.16	0.670
24	0.16	0.670

060.00		Free Water
Lab		Vacuum Oven
9	1.06	-2.101
23	0.99	-1.310
Std Dev	0.96	-1.000
24	0.92	-0.457
24	0.89	-0.091
9	0.89	-0.091
32	0.89	-0.030
Median	0.88	0.000
32	0.88	0.030
34	0.82	0.761
Std Dev	0.80	1.000
23	0.80	1.005
61	0.75	1.614
61	0.72	2.040
140	0.65	2.893

060.99		Free Water
Lab		Other
14	0.89	-1.340
Std Dev	0.88	-1.000
Median	0.86	0.000
Std Dev	0.84	1.000
14	0.84	1.340

060.XX		Free Water
Lab		Total Method
9	1.06	-2.719
23	0.99	-1.695
Std Dev	0.95	-1.000
24	0.92	-0.591
14	0.89	-0.118
24	0.89	-0.118
9	0.89	-0.118
32	0.89	-0.039
Median	0.88	0.000
32	0.88	0.039
14	0.84	0.749
34	0.82	0.985
Std Dev	0.82	1.000
23	0.80	1.301
61	0.75	2.089
61	0.72	2.641
140	0.65	3.744

101.00		Acid Soluble Calcium
Lab	%CaO	Atomic Absorption
219	0.24	0.000
Median	0.24	0.000

101.30		Acid Soluble Calcium
Lab	%CaO	ICP
32	0.44	-1.340
Std Dev	0.43	-1.000
14	0.42	-0.744
14	0.42	-0.596
61	0.42	-0.596
24	0.40	-0.149
32	0.40	-0.149
23	0.40	0.000
Median	0.40	0.000
61	0.39	0.149
9	0.38	0.596
34	0.37	0.744
Std Dev	0.36	1.000
9	0.36	1.191
23	0.36	1.191
24	0.35	1.340

101.99		Acid Soluble Calcium
Lab	%CaO	Other
219	0.25	0.000
Median	0.25	0.000

101.XX		Acid Soluble Calcium
Lab	%CaO	Total Method
32	0.44	-1.276
Std Dev	0.43	-1.000
14	0.42	-0.766
14	0.42	-0.638
61	0.42	-0.638
24	0.40	-0.255
32	0.40	-0.255
23	0.40	-0.128
61	0.39	0.000
Median	0.39	0.000
9	0.38	0.383
34	0.37	0.510
9	0.36	0.893
23	0.36	0.893
Std Dev	0.35	1.000
24	0.35	1.021
219	0.25	3.510
219	0.24	3.778

121.00		Acid Soluble Magnesium
Lab	%MgO	Atomic Absorption
219	0.72	0.000
Median	0.72	0.000

121.30		Acid Soluble Magnesium
Lab	%MgO	ICP
61	0.98	-2.412
34	0.96	-1.608
61	0.95	-1.072
Std Dev	0.95	-1.000
23	0.94	-0.536
24	0.94	-0.536
24	0.93	0.000
32	0.93	0.000
Median	0.93	0.000
23	0.93	0.268

32	0.93	0.268
9	0.92	0.804
9	0.92	0.804
Std Dev	0.91	1.000
14	0.88	2.680
14	0.88	2.948

121.99		Acid Soluble Magnesium
Lab	%MgO	Other
219	0.77	0.000
Median	0.77	0.000

121.XX		Acid Soluble Magnesium
Lab	%MgO	Total Method
61	0.98	-1.576
34	0.96	-1.104
Std Dev	0.96	-1.000
61	0.95	-0.788
23	0.94	-0.473
24	0.94	-0.473
24	0.93	-0.158
32	0.93	-0.158
23	0.93	0.000
32	0.93	0.000
Median	0.93	0.000
9	0.92	0.315
9	0.92	0.315
Std Dev	0.89	1.000
14	0.88	1.419
14	0.88	1.576
219	0.77	5.013
219	0.72	6.448

144.70		Sulfur
Lab		Spectrometric
14	2.63	-1.340
Std Dev	2.63	-1.000
Median	2.63	0.000
Std Dev	2.63	1.000
14	2.63	1.340

144.99		Sulfate Sulfur (S)
Lab		Other
23	1.50	-2.680

Std Dev	1.48	-1.000
9	1.47	-0.536
23	1.47	-0.536
34	1.47	-0.536
9	1.47	-0.179
Median	1.46	0.000
24	1.46	0.179
32	1.46	0.536
24	1.45	0.893
Std Dev	1.45	1.000
32	1.38	5.896
31	1.35	8.040

144.XX	Sulfate Sulfur (S)	
Lab	Total Method	
14	2.63	-65.589
14	2.63	-65.307
23	1.50	-1.834
Std Dev	1.49	-1.000
9	1.47	-0.141
23	1.47	-0.141
34	1.47	-0.141
Median	1.47	0.000
9	1.47	0.141
24	1.46	0.423
32	1.46	0.705
24	1.45	0.987
Std Dev	1.45	1.000
32	1.38	4.937
31	1.35	6.629

151.30	Total Arsenic	
Lab	ICP	
61	13.15	-0.665
61	12.70	-0.333
Median	12.25	0.000
24	11.80	0.333
Std Dev	10.90	1.000
31	8.60	2.698

151.XX	Total Arsenic	
Lab	Total Method	
61	13.15	-0.665
61	12.70	-0.333

Median	12.25	0.000
24	11.80	0.333
Std Dev	10.90	1.000
31	8.60	2.698

165.99	Acid Soluble Boron	
Lab	PPM	Other
24	34.40	0.000
Median	34.40	0.000

165.XX, ppm	Acid Soluble Boron	
Lab	PPM	Total Method
24	34.40	0.000
Median	34.40	0.000

181.30	Total Cadmium	
Lab	PPM	ICP
61	4.35	-2.178
Std Dev	3.65	-1.000
61	3.05	0.000
Median	3.05	0.000
31	2.75	0.503

181.99	Total Cadmium	
Lab	Other	
24	4.72	0.000
Median	4.72	0.000

181.XX	Total Cadmium	
Lab	PPM	Total Method
24	4.72	-0.931
61	4.35	-0.594
Median	3.70	0.000
61	3.05	0.594
31	2.75	0.867

190.00	Aluminum	
Lab	%Al <sub>2</sub> O <sub>3</sub>	ICP
32	2.07	-1.284
9	2.04	-1.005
Std Dev	2.04	-1.000
9	2.04	-0.949
61	2.04	-0.949
61	1.99	-0.447

24	1.97	-0.223
34	1.95	0.000
Median	1.95	0.000
32	1.94	0.112
24	1.92	0.335
23	1.92	0.391
23	1.91	0.447
Std Dev	1.86	1.000
14	1.76	2.178
14	1.75	2.233

190.99	Aluminum	
Lab	%Al <sub>2</sub> O <sub>3</sub>	Atomic Absorption
31	1.98	0.000
Median	1.98	0.000

190.XX	Aluminum	
Lab	%Al <sub>2</sub> O <sub>3</sub>	Total Method
32	2.07	-1.309
Std Dev	2.04	-1.000
9	2.04	-0.997
9	2.04	-0.935
61	2.04	-0.935
61	1.99	-0.374
31	1.98	-0.187
24	1.97	-0.125
Median	1.96	0.000
34	1.95	0.125
32	1.94	0.249
24	1.92	0.499
23	1.92	0.561
23	1.91	0.623
Std Dev	1.88	1.000
14	1.76	2.555
14	1.75	2.618

191.30	Total Chromium	
Lab	ICP	
61	112.50	-0.592
61	107.50	0.000
Median	107.50	0.000
Std Dev	99.05	1.000
31	89.85	2.088

191.99	Total Chromium	
Lab	PPM	Other
24	95.90	0.000
Median	95.90	0.000

191.XX	Total Chromium	
Lab	PPM	Total Method
61	112.50	-1.008
Std Dev	112.42	-1.000
61	107.50	-0.541
Median	101.70	0.000
24	95.90	0.541
Std Dev	90.98	1.000
31	89.85	1.106

202.30	Acid Soluble Cobalt	
Lab	PPM	ICP
61		

202.99	Acid Soluble Cobalt	
Lab	Other	
24	3.08	0.000
Median	3.08	0.000

202.XX	Acid Soluble Cobalt	
Lab	PPM	Total Method
61	3.80	-0.961
61	3.50	-0.396
Median	3.29	0.000
24	3.08	0.396
Std Dev	2.76	1.000
31	2.22	2.025

221.00	Acid Soluble Copper	
Lab	Atomic Absorption	
219	1.30	0.000
Median	1.30	0.000

221.30	Acid Soluble Copper	
Lab	PPM	ICP
61	<0.4	0.000
61	<0.4	0.000
Median	0.00	0.000

221.99 Acid Soluble Copper		
Lab		Other
24	0.71	0.000
Median	0.71	0.000

221.XX Acid Soluble Copper		
Lab	PPM	Total Method
61	<0.4	0.000
61	<0.4	0.000
24	0.71	0.000
Median	0.71	0.000

241.30 Acid Soluble Iron		
Lab	%Fe <sub>2</sub> O <sub>3</sub>	ICP
14	1.43	-8.972
14	1.42	-8.506
24	1.26	-1.049
Std Dev	1.26	-1.000
24	1.25	-0.583
32	1.25	-0.583
34	1.25	-0.583
23	1.25	-0.350
Median	1.24	0.000
61	1.23	0.350
61	1.23	0.350
9	1.23	0.583
23	1.22	0.816
Std Dev	1.22	1.000
9	1.22	1.049
32	1.20	1.748
31	1.15	4.078

241.99 Acid Soluble Iron		
Lab	%Fe <sub>2</sub> O <sub>3</sub>	Other
219	1.29	0.000
Median	1.29	0.000

241.XX Acid Soluble Iron		
Lab	%Fe <sub>2</sub> O <sub>3</sub>	Total Method
14	1.43	-5.574
14	1.42	-5.268
219	1.30	-1.695
219	1.29	-1.313
Std Dev	1.28	-1.000

24	1.26	-0.382
24	1.25	-0.076
32	1.25	-0.076
34	1.25	-0.076
Median	1.25	0.000
23	1.25	0.076
61	1.23	0.534
61	1.23	0.534
9	1.23	0.687
23	1.22	0.840
9	1.22	0.993
Std Dev	1.21	1.000
32	1.20	1.451
31	1.15	2.978

251.30 Total Lead		
Lab	PPM	ICP
61	12.00	-1.002
Std Dev	11.99	-1.000
61	8.00	0.000
Median	8.00	0.000
Std Dev	4.01	1.000
31	1.30	1.678

251.99 Total Lead		
Lab		Other
24	1.35	0.000
Median	1.35	0.000

251.XX Total Lead		
Lab	PPM	Total Method
61	12.00	-1.281
Std Dev	10.39	-1.000
61	8.00	-0.581
Median	4.68	0.000
24	1.35	0.581
31	1.30	0.590

261.30 Acid Soluble Manganese		
Lab		ICP
31	491.60	0.000
Median	491.60	0.000

261.99 Acid Soluble Manganese		
Lab	PPM	Other
219	531.50	-1.260
Std Dev	528.10	-1.000
219	517.55	-0.195
61	515.00	0.000
Median	515.00	0.000
Std Dev	501.90	1.000
61	500.00	1.145
24	498.00	1.298

261.XX Acid Soluble Manganese		
Lab	PPM	Total Method
219	531.50	-1.747
Std Dev	521.24	-1.000
219	517.55	-0.731
61	515.00	-0.546
Median	507.50	0.000
61	500.00	0.546
24	498.00	0.691
Std Dev	493.76	1.000
31	491.60	1.157

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

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

289.30 Total Molybdenum		
Lab	PPM	ICP
61		

289.99 Total Molybdenum		
Lab	PPM	Other
24	19.40	0.000
Median	19.40	0.000

289.XX Total Molybdenum		
Lab	PPM	Total Method
61	26.00	-1.776

Std Dev	23.58	-1.000
61	21.50	-0.336
Median	20.45	0.000
24	19.40	0.336
Std Dev	17.33	1.000
31	15.55	1.568

291.30 Total Nickel		
Lab		ICP
61		

291.99 Total Nickel		
Lab	PPM	Other
24	14.30	0.000
Median	14.30	0.000

291.XX Total Nickel		
Lab	PPM	Total Method
61	17.00	-1.930
Std Dev	15.33	-1.000
24	14.30	-0.430
Median	13.53	0.000
31	12.75	0.430
61	12.00	0.847

301.30 Total Selenium		
Lab	PPM	ICP
24	0.20	0.000
Median	0.20	0.000

301.99 Total Selenium		
Lab	PPM	Other
61	0.00	0.000
61	0.00	0.000
Median	0.00	0.000

301.XX Total Selenium		
Lab	PPM	Total Method
24	0.20	-2.680
Std Dev	0.07	-1.000
61	0.00	0.000
61	0.00	0.000
Median	0.00	0.000



311.99		Sodium
Lab	%Na <sub>2</sub> O	Other
61	0.24	-0.670
24	0.23	0.000
24	0.23	0.000
61	0.23	0.000
Median	0.23	0.000
23	0.23	0.670
Std Dev	0.22	1.000
23	0.22	2.010
31	0.21	2.680

311.XX		Sodium
Lab	%Na <sub>2</sub> O	Total Method
61	0.24	-0.670
24	0.23	0.000
24	0.23	0.000
61	0.23	0.000
Median	0.23	0.000
23	0.23	0.670
Std Dev	0.22	1.000
23	0.22	2.010
31	0.21	2.680

321.00		Acid Soluble Zinc
Lab		Atomic Absorption
219	305.90	0.000
Median	305.90	0.000

321.30		Acid Soluble Zinc
Lab	PPM	ICP
31	329.45	-0.848
61	324.50	-0.567
Median	314.50	0.000
61	304.50	0.567
Std Dev	296.88	1.000
24	295.00	1.107

321.99		Acid Soluble Zinc
Lab		Other
219	321.05	0.000
Median	321.05	0.000

321.XX		Acid Soluble Zinc
Lab	PPM	Total Method
31	329.45	-1.139
Std Dev	327.50	-1.000
61	324.50	-0.786
219	321.05	-0.540
Median	313.48	0.000
219	305.90	0.540
61	304.50	0.640
Std Dev	299.45	1.000
24	295.00	1.318

325.10		Fluoride
Lab	%	Electrode
32	1.77	-2.077
32	1.71	-1.273
24	1.63	-0.201
24	1.62	-0.067
23	1.62	0.000
Median	1.62	0.000
34	1.57	0.603
23	1.53	1.139
14	1.49	1.675
14	1.41	2.747

325.99		Fluoride
Lab	%	Other
61	1.65	-1.848
61	1.61	-0.370
Median	1.60	0.000
9	1.59	0.370
9	1.56	1.294

325.XX		Fluoride
Lab	%	Total Method
32	1.77	-3.159
32	1.71	-2.010
61	1.65	-0.766
24	1.63	-0.479
24	1.62	-0.287
23	1.62	-0.191
61	1.61	0.000
Median	1.61	0.000
9	1.59	0.383

34	1.57	0.670
9	1.56	0.861
23	1.53	1.436
14	1.49	2.201
14	1.41	3.733