

AFPC**Sample****2013-04****Grade 10-40-0-10-1**

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	1	11.94	0.00
Ammoniacal Nitrogen, Other		001.99	13	11.87	0.06
Method Group 001.XX PCT			14	11.87	0.07
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	3	12.01	0.08
Total Nitrogen, Salicylic	955.04d	010.12	1	11.83	0.00
Total Nitrogen, Combustion	993.13	010.60	13	11.86	0.21
Total Nitrogen, Other		010.99	3	11.93	0.08
Method Group 010.XX PCT			20	11.89	0.20
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	3	40.57	0.56
Total Phosphate, Spectrometric	978.02	020.20	19	40.92	0.10
Total Phosphate, Alka. Quimociac	955.04d	020.30	1	40.60	0.00
Total Phosphate, ICP	970.03	020.40	2	40.82	0.02
Method Group 020.XX PCT			25	40.90	0.16
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	10	0.56	0.12
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	1	0.28	0.00
Insoluble Phosphate, Automated	978.01	030.40	1	0.39	0.00
Insoluble Phosphate, Other		030.99	2	0.53	0.01
Method Group 030.XX PCT			14	0.52	0.16
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Spectrometric	960.02	040.20	11	40.35	0.25
Indirect Available Phosphate, Other		040.99	1	40.51	0.00
Method Group 040.XX PCT			12	40.40	0.24
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	3	39.90	0.51
Direct Available Phosphate, ICP		041.50	2	39.87	0.10

Direct Available Phosphate, EDTA Extract	993.01	041.60	7	40.21	0.43
Method Group 041.XX PCT			12	40.01	0.51
WATER SOLUBLE PHOSPHATE					
Water Soluble Phosphate, Spectrometric	970.01	048.20	12	35.73	0.25
Water Soluble Phosphate, Alka. Quimociac	964.04	048.30	1	35.62	0.00
Water Soluble Phosphate, Other		048.99	4	35.81	0.11
Method Group 048.XX PCT			17	35.77	0.25
SOLUBLE POTASH AS K₂O					
Soluble Potash, ICP(Oxalate)		050.50	3	0.12	0.02
Soluble Potash, Flame Photometric(Citrate)	983.02B(b)	050.61	1	0.15	0.00
Soluble Potash, Other		050.99	6	0.12	0.00
Method Group 050.XX PCT			10	0.12	0.00
FREE WATER					
Free Water, Vacuum Oven	965.08B	060.00	13	0.87	0.13
Free Water, Vacuum Desiccate	965.08A	060.10	2	0.86	0.06
Free Water, Other		060.99	2	0.73	0.00
Method Group 060.XX PCT			17	0.82	0.14
ACID SOLUBLE CALCIUM AS CaO					
Acid Soluble Calcium, Atomic Absorption	945.04	101.00	1	0.42	0.00
Acid Soluble Calcium, ICP		101.30	16	0.42	0.03
Acid Soluble Calcium, Other		101.99	1	0.44	0.00
Method Group 101.XX PCT			18	0.42	0.03
ACID SOLUBLE MAGNESIUM AS MgO					
Acid Soluble Magnesium, Atomic Absorption	984.01	121.00	1	0.58	0.00
Acid Soluble Magnesium, ICP		121.30	15	0.77	0.05
Acid Soluble Magnesium, Other		121.99	1	0.61	0.00
Method Group 121.XX PCT			17	0.77	0.07
SULFATE SULFUR (S)					
Sulfur, Gravimetric	980.02(a)	144.01	3	5.43	0.15
Sulfur, Spectrometric		144.70	2	5.12	0.01
Sulfur, Other		144.99	12	5.16	0.03
Method Group 144.XX PCT			17	5.16	0.04
TOTAL SULFUR (S)					
Sulfur, Other		145.99	18	10.15	0.24
Method Group 145.XX PCT			18	10.15	0.29

TOTAL ARSENIC

Total Arsenic, ICP	980.02(b)	151.02	8	10	1.2
Method Group 151.XX PPM			8	10	1.5

TOTAL CADMIUM

Total Cadmium, ICP		181.30	6	4	0.1
Method Group 181.XX PPM			6	4	0.1

ALUMINUM AS Al₂O₃

ICP, %			14	1.58	0.03
Other		190.99	1	1.65	0.00
Method Group 190.XX PCT			15	1.58	0.05

TOTAL CHROMIUM

Total Chromium, ICP		191.30	8	73	2.9
Method Group 191.XX PPM			8	73	3.5

ACID SOLUBLE COBALT

Acid Soluble Cobalt, ICP		202.30	5	3	0.0
Method Group 202.XX PPM			5	3	0.0

ACID SOLUBLE COPPER

Acid Soluble Copper, Atomic Absorption	975.01	221.00	1	1	0.0
Acid Soluble Copper, ICP		221.30	3	1	0.4
Method Group 221.XX PPM			3	1	0.5

ACID SOLUBLE IRON AS Fe₂O₃

Acid Soluble Iron, ICP		241.30	15	1.23	0.04
Acid Soluble Iron, Other		241.99	2	1.08	0.06
Method Group 241.XX PCT			18	1.22	0.04

TOTAL LEAD

Total Lead, ICP		251.30	5	3	1.8
Method Group 251.XX PPM			5	3	2.1

ACID SOLUBLE MANGANESE

Acid Soluble Manganese, Atomic Absorption	972.02b	261.11	1	295	0.0
Acid Soluble Manganese, ICP	972.02a	261.30	3	299	111.6
Acid Soluble Manganese, Other		261.99	5	293	21.3
Method Group 261.XX PPM			9	295	6.4

TOTAL MOLYBDENUM

Total Molybdenum, ICP		289.30	6	11	0.0
Method Group 289.XX PPM			6	11	0.0

TOTAL NICKEL

Total Nickel, ICP	291.30	6	13	0.9
Method Group 291.XX PPM		6	13	1.1

SODIUM AS Na₂O

Sodium, Atomic Absorbtion	983.04	311.00	1	0.21	0.00
Sodium, Other		311.99	8	0.20	0.03
Method Group 311.XX PCT			9	0.21	0.03

ACID SOLUBLE ZINC

Acid Soluble Zinc, Atomic Absorption	975.02	321.00	2	1.0	0.0
Acid Soluble Zinc, Zincon Ion Exchange	973.01	321.20	1	1.04	0.0
Acid Soluble Zinc, ICP		321.30	15	1.1	0.2
Acid Soluble Zinc, Other		321.99	5	1.0	0.6
Method Group 321.XX PPM			23	1.0	0.3

FLUORIDE

Volumetric		325.10	9	1.86	0.09
Distilled/Electrode		325.99	2	1.92	0.02
Method Group 325.XX PCT			11	1.87	0.08

001.10 Ammoniacal Nitrogen		
Lab	MgO distillation	
31	11.94	0.000
Median	11.94	0.000

001.99 Ammoniacal Nitrogen		
Lab	Other	
34	12.01	-2.591
32	12.00	-2.412
61	11.97	-1.787
32	11.93	-1.161
Std Dev	11.92	-1.000
61	11.91	-0.804
24	11.87	-0.089
23	11.87	0.000
Median	11.87	0.000
23	11.86	0.089
24	11.86	0.089
140	11.86	0.179
Std Dev	11.81	1.000
275	11.72	2.591
275	11.56	5.449
38	11.31	9.916

001.XX Ammoniacal Nitrogen		
Lab	Total Method	
34	12.01	-2.350
32	12.00	-2.185
61	11.97	-1.608
31	11.94	-1.196
32	11.93	-1.031
Std Dev	11.93	-1.000
61	11.91	-0.701
24	11.87	-0.041
Median	11.87	0.000
23	11.87	0.041
23	11.86	0.124
24	11.86	0.124
140	11.86	0.206
Std Dev	11.81	1.000
275	11.72	2.433
275	11.56	5.071
38	11.31	9.194

010.11 Total Nitrogen		
Lab	Modified Comprehensive	
43	12.05	-0.487
43	12.01	0.000
Median	12.01	0.000
Std Dev	11.93	1.000
219	11.83	2.193

010.12 Total Nitrogen		
Lab	Salicylic	
107	11.83	0.000
Median	11.83	0.000

010.60 Total Nitrogen		
Lab	Combustion	
47	12.14	-1.340
49	12.10	-1.128
219	12.07	-1.011
Std Dev	12.07	-1.000
9	12.00	-0.682
66	12.00	-0.658
31	11.92	-0.306
64	11.86	0.000
Median	11.86	0.000
99	11.79	0.329
38	11.78	0.376
110	11.72	0.658
Std Dev	11.64	1.000
103	11.52	1.575
111	11.47	1.810
29	11.20	3.080

010.99 Total Nitrogen		
Lab	Other	
32	12.00	-0.873
32	11.93	0.000
Median	11.93	0.000
Std Dev	11.85	1.000
40	11.79	1.807

010.XX Total Nitrogen		
Lab	Total Method	
47	12.14	-1.538
49	12.10	-1.264

219	12.07	-1.112
Std Dev	12.05	-1.000
43	12.05	-0.990
43	12.01	-0.746
9	12.00	-0.685
32	12.00	-0.685
66	12.00	-0.655
32	11.93	-0.259
31	11.92	-0.198
Median	11.89	0.000
64	11.86	0.198
219	11.83	0.350
107	11.83	0.381
40	11.79	0.624
99	11.79	0.624
38	11.78	0.685
Std Dev	11.72	1.000
110	11.72	1.051
103	11.52	2.238
111	11.47	2.543
29	11.20	4.188

020.10 Total Phosphate		
Lab	Gravimetric Quimociac	
40	41.38	-1.457
Std Dev	41.13	-1.000
219	40.57	0.000
Median	40.57	0.000
Std Dev	40.01	1.000
103	39.89	1.223

020.20 Total Phosphate		
Lab	Spectrometric	
38	49.52	-90.374
24	41.11	-1.997
275	41.11	-1.997
Std Dev	41.02	-1.000
61	40.98	-0.578
275	40.97	-0.525
32	40.95	-0.315
31	40.94	-0.158
23	40.93	-0.053
32	40.93	-0.053
23	40.92	0.000

Median	40.92	0.000
24	40.91	0.105
34	40.90	0.210
61	40.88	0.473
99	40.88	0.473
Std Dev	40.82	1.000
43	40.79	1.366
9	40.77	1.576
140	40.63	3.048
110	40.33	6.201
43	40.09	8.723

020.30 Total Phosphate		
Lab	Alka. Quimociac	
111	40.60	0.000
Median	40.60	0.000

020.40 Total Phosphate		
Lab	Automated	
9	40.85	-1.340
Std Dev	40.84	-1.000
Median	40.82	0.000
Std Dev	40.80	1.000
219	40.80	1.340

020.XX Total Phosphate		
Lab	Total Method	
38	49.52	-64.164
40	41.38	-3.573
24	41.11	-1.563
275	41.11	-1.563
Std Dev	41.03	-1.000
61	40.98	-0.558
275	40.97	-0.521
32	40.95	-0.372
31	40.94	-0.261
23	40.93	-0.186
32	40.93	-0.186
23	40.92	-0.149
24	40.91	-0.074
34	40.90	0.000
Median	40.90	0.000
61	40.88	0.186
99	40.88	0.186

9	40.85	0.409
219	40.80	0.782
43	40.79	0.819
9	40.77	0.968
Std Dev	40.77	1.000
140	40.63	2.010
111	40.60	2.271
219	40.57	2.457
110	40.33	4.243
43	40.09	6.030
103	39.89	7.519

030.20 Insoluble Phosphate		
Lab	Spectrometric	
43	0.79	-1.954
43	0.75	-1.637
Std Dev	0.68	-1.000
23	0.59	-0.247
23	0.58	-0.165
140	0.58	-0.165
Median	0.56	0.000
61	0.54	0.165
9	0.44	0.990
Std Dev	0.43	1.000
61	0.42	1.154
24	0.36	1.608
24	0.32	1.938

030.30 Insoluble Phosphate		
Lab	Alka. Quimociac	
31	0.28	0.000
Median	0.28	0.000

030.40 Insoluble Phosphate		
Lab	Automated	
34	0.39	0.000
Median	0.39	0.000

030.99 Insoluble Phosphate		
Lab	Other	
32	0.54	-1.340
Std Dev	0.54	-1.000
Median	0.53	0.000
Std Dev	0.51	1.000

32	0.51	1.340
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030.XX Insoluble Phosphate		
Lab	Total Method	
43	0.79	-2.020
43	0.75	-1.732
Std Dev	0.66	-1.000
23	0.59	-0.469
23	0.58	-0.394
140	0.58	-0.394
32	0.54	-0.131
61	0.54	-0.094
Median	0.52	0.000
32	0.51	0.094
9	0.44	0.656
61	0.42	0.806
34	0.39	0.993
Std Dev	0.39	1.000
24	0.36	1.218
24	0.32	1.518
31	0.28	1.855

040.20 Indirect Available Phosphate		
Lab	Spectrometric	
24	40.71	-1.462
31	40.66	-1.259
Std Dev	40.60	-1.000
24	40.59	-0.975
61	40.46	-0.447
61	40.44	-0.365
23	40.35	0.000
Median	40.35	0.000
9	40.34	0.061
23	40.34	0.061
Std Dev	40.10	1.000
140	40.06	1.198
43	40.00	1.421
43	39.36	4.020

040.99 Indirect Available Phosphate		
Lab	Other	
34	40.51	0.000
Median	40.51	0.000

040.XX Indirect Available Phosphate		
Lab	Total Method	
24	40.71	-1.593
31	40.66	-1.340
Std Dev	40.59	-1.000
24	40.59	-0.986
34	40.51	-0.582
61	40.46	-0.329
61	40.44	-0.228
Median	40.40	0.000
23	40.35	0.228
9	40.34	0.303
23	40.34	0.303
Std Dev	40.20	1.000
140	40.06	1.719
43	40.00	1.997
43	39.36	5.234

041.10 Direct Available Phosphate		
Lab	Gravimetric Quimociac	
47	40.46	-1.109
Std Dev	40.40	-1.000
219	39.90	0.000
Median	39.90	0.000
Std Dev	39.39	1.000
107	39.10	1.571

041.50 Direct Available Phosphate		
Lab	ICP	
66	40.00	-1.340
Std Dev	39.97	-1.000
Median	39.87	0.000
Std Dev	39.77	1.000
47	39.74	1.340

041.60 Direct Available Phosphate		
Lab	EDTA Extract	
275	40.91	-1.646
Std Dev	40.64	-1.000
49	40.59	-0.893
275	40.50	-0.682
103	40.21	0.000
Median	40.21	0.000
64	40.02	0.447

29	39.93	0.658
219	39.92	0.694

041.XX Direct Available Phosphate		
Lab	Total Method	
275	40.91	-2.154
49	40.59	-1.388
275	40.50	-1.173
47	40.46	-1.077
Std Dev	40.43	-1.000
103	40.21	-0.479
64	40.02	-0.024
Median	40.01	0.000
66	40.00	0.024
29	39.93	0.191
219	39.92	0.227
219	39.90	0.275
47	39.74	0.646
Std Dev	39.59	1.000
107	39.10	2.189

048.20 Water Soluble Phosphate		
Lab	Spectrometric	
61	36.12	-1.586
61	36.01	-1.124
Std Dev	35.97	-1.000
23	35.90	-0.703
24	35.90	-0.703
23	35.83	-0.422
24	35.79	-0.241
Median	35.73	0.000
140	35.67	0.241
43	35.66	0.261
43	35.61	0.462
Std Dev	35.48	1.000
31	35.44	1.164
275	35.35	1.506
275	35.28	1.787

048.30 Water Soluble Phosphate		
Lab	Alka. Quimociac	
111	35.62	0.000
Median	35.62	0.000

048.99 Water Soluble Phosphate		
Lab		Other
32	36.05	-2.162
Std Dev	35.92	-1.000
9	35.85	-0.360
Median	35.81	0.000
34	35.77	0.360
Std Dev	35.70	1.000
32	35.70	1.036

048.XX Water Soluble Phosphate		
Lab		Total Method
61	36.12	-1.675
32	36.05	-1.340
61	36.01	-1.125
Std Dev	35.98	-1.000
23	35.90	-0.622
24	35.90	-0.622
9	35.85	-0.383
23	35.83	-0.287
24	35.79	-0.072
34	35.77	0.000
Median	35.77	0.000
32	35.70	0.359
140	35.67	0.503
43	35.66	0.526
111	35.62	0.718
43	35.61	0.766
Std Dev	35.56	1.000
31	35.44	1.603
275	35.35	2.010
275	35.28	2.345

050.50 %K ₂ O Soluble Potash		
Lab		ICP(Oxalate)
23	0.12	-0.206
23	0.12	0.000
Median	0.12	0.000
Std Dev	0.09	1.000
99	0.06	2.474

050.61 Soluble Potash		
Lab		Flame Photometric(Citrate)
219	0.15	0.000

Median	0.15	0.000
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050.99 Soluble Potash		
Lab	%K ₂ O	Other
24	0.13	-1.840
Std Dev	0.13	-1.000
61	0.13	-0.102
43	0.12	-0.073
Median	0.12	0.000
43	0.12	0.073
Std Dev	0.12	1.000
24	0.12	1.636
61	0.12	1.636

050.XX Soluble Potash		
Lab	%K ₂ O	Total Method
219	0.15	-7.469
24	0.13	-2.086
Std Dev	0.13	-1.000
61	0.13	-0.741
43	0.12	-0.718
43	0.12	-0.605
Median	0.12	0.000
23	0.12	0.605
24	0.12	0.605
61	0.12	0.605
Std Dev	0.12	1.000
23	0.12	1.950
99	0.06	18.097

060.00 Free Water		
Lab		Vacuum Oven
31	1.02	-1.079
43	1.01	-1.005
Std Dev	1.00	-1.000
24	0.99	-0.856
24	0.98	-0.819
9	0.91	-0.261
32	0.88	-0.074
140	0.87	0.000
Median	0.87	0.000
23	0.82	0.372
32	0.82	0.409
23	0.80	0.521

34	0.80	0.521
Std Dev	0.74	1.000
43	0.73	1.079
111	0.73	1.079

060.10 Free Water		
Lab		Vacuum Desiccate
61	0.94	-1.340
Std Dev	0.92	-1.000
Median	0.86	0.000
Std Dev	0.80	1.000
61	0.79	1.340

060.99 Free Water		
Lab		Other
275	0.73	-1.340
Std Dev	0.73	-1.000
Median	0.73	0.000
Std Dev	0.72	1.000
275	0.72	1.340

060.XX Free Water		
Lab		Total Method
31	1.02	-1.742
43	1.01	-1.653
24	0.99	-1.474
24	0.98	-1.429
61	0.94	-1.027
Std Dev	0.93	-1.000
9	0.91	-0.759
32	0.88	-0.536
140	0.87	-0.447
23	0.82	0.000
Median	0.82	0.000
32	0.82	0.045
23	0.80	0.179
34	0.80	0.179
61	0.79	0.313
275	0.73	0.804
43	0.73	0.849
111	0.73	0.849
275	0.72	0.893

101.00 Acid Soluble Calcium		
Lab	%CaO	Atomic Absorption
219	0.42	0.000
Median	0.42	0.000

101.30 Acid Soluble Calcium		
Lab	%CaO	ICP
61	0.53	-4.183
61	0.52	-3.803
31	0.49	-2.662
34	0.46	-1.521
Std Dev	0.45	-1.000
24	0.44	-0.761
9	0.44	-0.570
32	0.43	-0.190
18	0.42	0.000
23	0.42	0.000
23	0.42	0.000
Median	0.42	0.000
32	0.42	0.190
24	0.41	0.380
43	0.41	0.416
43	0.40	0.618
Std Dev	0.39	1.000
99	0.33	3.423
38	0.23	7.226

101.99 Acid Soluble Calcium		
Lab	%CaO	Other
219	0.44	0.000
Median	0.44	0.000

101.XX Acid Soluble Calcium		
Lab	%CaO	Total Method
61	0.53	-4.515
61	0.52	-4.098
31	0.49	-2.847
34	0.46	-1.595
Std Dev	0.45	-1.000
219	0.44	-0.949
24	0.44	-0.761
9	0.44	-0.553
32	0.43	-0.136
219	0.42	-0.073

Median	0.42	0.000
18	0.42	0.073
23	0.42	0.073
23	0.42	0.073
32	0.42	0.282
24	0.41	0.490
43	0.41	0.529
43	0.40	0.751
Std Dev	0.40	1.000
99	0.33	3.827
38	0.23	7.998

121.00 Acid Soluble Magnesium		
Lab	%MgO	Atomic Absorption
219	0.58	0.000
Median	0.58	0.000

121.30 Acid Soluble Magnesium		
Lab	%MgO	ICP
32	0.83	-1.286
Std Dev	0.82	-1.000
24	0.80	-0.643
34	0.80	-0.643
61	0.80	-0.643
61	0.79	-0.429
24	0.78	-0.214
23	0.78	-0.107
23	0.77	0.000
32	0.77	0.000
Median	0.77	0.000
9	0.77	0.107
31	0.75	0.429
Std Dev	0.72	1.000
43	0.72	1.179
43	0.72	1.179
99	0.52	5.360
38	0.41	7.718

121.99 Acid Soluble Magnesium		
Lab	%MgO	Other
219	0.61	0.000
Median	0.61	0.000

121.XX Acid Soluble Magnesium		
Lab	%MgO	Total Method
32	0.83	-1.072
Std Dev	0.83	-1.000
24	0.80	-0.536
34	0.80	-0.536
61	0.80	-0.536
61	0.79	-0.357
24	0.78	-0.179
23	0.78	-0.089
23	0.77	0.000
32	0.77	0.000
Median	0.77	0.000
9	0.77	0.089
31	0.75	0.357
43	0.72	0.983
43	0.72	0.983
Std Dev	0.71	1.000
219	0.61	2.796
219	0.58	3.332
99	0.52	4.467
38	0.41	6.432

144..01 Sulfate Sulfur (S)		
Lab		Gravimetric
61	5.55	-0.825
61	5.43	0.000
Median	5.43	0.000
Std Dev	5.28	1.000
219	5.16	1.855

144.70 Sulfur		
Lab		Spectrometric
43	5.13	-1.340
Std Dev	5.13	-1.000
Median	5.12	0.000
Std Dev	5.11	1.000
43	5.11	1.340

144.99 Sulfate Sulfur (S)		
Lab		Other
9	15.37	-331.752
38	5.72	-18.110
Std Dev	5.19	-1.000

32	5.18	-0.568
23	5.17	-0.406
34	5.17	-0.406
275	5.16	-0.081
Median	5.16	0.000
23	5.16	0.081
24	5.14	0.568
24	5.13	0.893
32	5.13	0.893
Std Dev	5.13	1.000
275	5.04	3.817
31	5.02	4.467

144.XX Sulfate Sulfur (S)		
Lab		Total Method

9	15.37	-304.180
38	5.72	-16.676
61	5.55	-11.613
61	5.43	-8.040
Std Dev	5.19	-1.000
32	5.18	-0.596
23	5.17	-0.447
34	5.17	-0.447
275	5.16	-0.149
23	5.16	0.000
Median	5.16	0.000
219	5.16	0.000
24	5.14	0.447
24	5.13	0.744
32	5.13	0.744
43	5.13	0.744
Std Dev	5.12	1.000
43	5.11	1.489
275	5.04	3.424
31	5.02	4.020

145.99 Total Sulfur (S)		
Lab		Other

38	10.72	-2.407
Std Dev	10.39	-1.000
99	10.38	-0.977
34	10.32	-0.725
32	10.29	-0.599
32	10.28	-0.536

49	10.27	-0.515
23	10.24	-0.368
23	10.22	-0.284
43	10.20	-0.200
Median	10.15	0.000
9	10.10	0.200
103	10.09	0.242
43	10.01	0.578
66	9.97	0.746
219	9.95	0.830
Std Dev	9.91	1.000
64	9.86	1.209
275	9.80	1.461
40	9.05	4.614
49	4.99	21.682

145.XX Total Sulfur (S)		
Lab		Total Method

38	10.72	-2.407
Std Dev	10.39	-1.000
99	10.38	-0.977
34	10.32	-0.725
32	10.29	-0.599
32	10.28	-0.536
49	10.27	-0.515
23	10.24	-0.368
23	10.22	-0.284
43	10.20	-0.200
Median	10.15	0.000
9	10.10	0.200
103	10.09	0.242
43	10.01	0.578
66	9.97	0.746
219	9.95	0.830
Std Dev	9.91	1.000
64	9.86	1.209
275	9.80	1.461
40	9.05	4.614
49	4.99	21.682

151.30 Total Arsenic		
Lab		ICP

31	12.40	-2.108
Std Dev	11.08	-1.000

61	10.20	-0.266
61	10.15	-0.224
64	9.97	-0.069
Median	9.88	0.000
9	9.80	0.069
43	8.80	0.907
Std Dev	8.69	1.000
43	7.85	1.702
18	6.85	2.540

151.XX	Total Arsenic	
Lab	PPM	Total Method
31	12.40	-2.108
Std Dev	11.08	-1.000
61	10.20	-0.266
61	10.15	-0.224
64	9.97	-0.069
Median	9.88	0.000
9	9.80	0.069
43	8.80	0.907
Std Dev	8.69	1.000
43	7.85	1.702
18	6.85	2.540

181.30	Total Cadmium	
Lab	PPM	ICP
9	3.80	-3.350
Std Dev	3.62	-1.000
43	3.60	-0.670
43	3.60	-0.670
Median	3.55	0.000
61	3.50	0.670
61	3.50	0.670
Std Dev	3.48	1.000
18	3.00	7.370

181.XX	Total Cadmium	
Lab	PPM	Total Method
9	3.80	-3.350
Std Dev	3.62	-1.000
43	3.60	-0.670
43	3.60	-0.670
Median	3.55	0.000
61	3.50	0.670

61	3.50	0.670
Std Dev	3.48	1.000
18	3.00	7.370

190.00	Aluminum	
Lab	%Al ₂ O ₃	ICP
18	1.69	-3.259
38	1.64	-1.811
9	1.62	-1.231
32	1.62	-1.231
Std Dev	1.61	-1.000
32	1.61	-0.797
34	1.59	-0.362
24	1.58	-0.072
Median	1.58	0.000
23	1.58	0.072
23	1.57	0.217
43	1.57	0.217
43	1.57	0.217
24	1.56	0.507
61	1.56	0.507
Std Dev	1.54	1.000
61	1.53	1.521

190.99	Aluminum	
Lab	%Al ₂ O ₃	Atomic Absorption
31	1.65	0.000
Median	1.65	0.000

190.XX	Aluminum	
Lab	%Al ₂ O ₃	Total Method
18	1.69	-2.948
31	1.65	-1.876
38	1.64	-1.608
9	1.62	-1.072
32	1.62	-1.072
Std Dev	1.62	-1.000
32	1.61	-0.670
34	1.59	-0.268
24	1.58	0.000
Median	1.58	0.000
23	1.58	0.134
23	1.57	0.268
43	1.57	0.268

43	1.57	0.268
24	1.56	0.536
61	1.56	0.536
Std Dev	1.54	1.000
61	1.53	1.474

191.30	Total Chromium	
Lab	PPM	ICP
18	78.55	-1.771
Std Dev	76.31	-1.000
31	75.60	-0.758
9	74.50	-0.380
64	73.79	-0.136
Median	73.40	0.000
61	73.00	0.136
43	71.00	0.823
61	70.50	0.995
Std Dev	70.48	1.000
43	70.00	1.166

191.XX	Total Chromium	
Lab	PPM	Total Method
18	78.55	-1.771
Std Dev	76.31	-1.000
31	75.60	-0.758
9	74.50	-0.380
64	73.79	-0.136
Median	73.40	0.000
61	73.00	0.136
43	71.00	0.823
61	70.50	0.995
Std Dev	70.48	1.000
43	70.00	1.166

202.30	Acid Soluble Cobalt	
Lab	PPM	ICP
43	3.00	0.000
43	3.00	0.000
61	3.00	0.000
61	3.00	0.000
Median	3.00	0.000
9	2.50	0.224

202.XX	Acid Soluble Cobalt	
Lab	PPM	Total Method
43	3.00	0.000
43	3.00	0.000
61	3.00	0.000
61	3.00	0.000
Median	3.00	0.000
9	2.50	0.224

221.00	Acid Soluble Copper	
Lab	PPM	Atomic Absorption
219	1.25	0.000
Median	1.25	0.000

221.30	Acid Soluble Copper	
Lab	PPM	ICP
9	2.00	-2.680
Std Dev	1.37	-1.000
43	1.00	0.000
43	1.00	0.000
Median	1.00	0.000

221.XX	Acid Soluble Copper	
Lab	PPM	Total Method
9	2.00	-2.680
Std Dev	1.37	-1.000
43	1.00	0.000
43	1.00	0.000
Median	1.00	0.000

241.30	Acid Soluble Iron	
Lab	%Fe ₂ O ₃	ICP
32	1.40	-4.796
32	1.29	-1.834
24	1.27	-1.269
Std Dev	1.26	-1.000
34	1.26	-0.987
61	1.25	-0.705
24	1.23	-0.141
31	1.23	-0.141
23	1.23	0.000
Median	1.23	0.000
23	1.22	0.141
43	1.22	0.282

43	1.21	0.423
61	1.21	0.564
9	1.20	0.705
Std Dev	1.19	1.000
99	0.96	7.476
38	0.66	16.080

241.99 Acid Soluble Iron		
Lab	%Fe ₂ O ₃	Other
219	1.17	-1.340
Std Dev	1.14	-1.000
Median	1.08	0.000
Std Dev	1.02	1.000
275	1.00	1.340

241.XX Acid Soluble Iron		
Lab	%Fe ₂ O ₃	Total Method
32	1.40	-4.866
32	1.29	-1.904
24	1.27	-1.340
34	1.26	-1.058
Std Dev	1.26	-1.000
61	1.25	-0.776
219	1.25	-0.635
24	1.23	-0.212
31	1.23	-0.212
23	1.23	-0.071
Median	1.22	0.000
23	1.22	0.071
43	1.22	0.212
43	1.21	0.353
61	1.21	0.494
9	1.20	0.635
Std Dev	1.19	1.000
219	1.17	1.622
275	1.00	6.277
99	0.96	7.405
38	0.66	16.009

251.30 Total Lead		
Lab	PPM	ICP
61	3.50	-0.570
18	3.35	-0.485
61	2.50	0.000

Median	2.50	0.000
43	1.00	0.855
43	1.00	0.855

251.XX Total Lead		
Lab	PPM	Total Method
61	3.50	-0.570
18	3.35	-0.485
61	2.50	0.000
Median	2.50	0.000
43	1.00	0.855
43	1.00	0.855

261.11 Acid Soluble Manganese		
Lab	Atomic Absorption	
219	294.50	0.000
Median	294.50	0.000

261.30 Acid Soluble Manganese		
Lab	ICP	
9	299.00	-0.002
31	298.80	0.000
Median	298.80	0.000
Std Dev	187.24	1.000
99	0.03	2.678

261.99 Acid Soluble Manganese		
Lab	PPM	Other
43	323.00	-1.434
43	320.50	-1.316
Std Dev	313.77	-1.000
61	292.50	0.000
Median	292.50	0.000
219	292.00	0.024
61	287.50	0.235

261.XX Acid Soluble Manganese		
Lab	PPM	Total Method
43	323.00	-5.456
43	320.50	-4.977
Std Dev	299.72	-1.000
9	299.00	-0.861
31	298.80	-0.823
219	294.50	0.000

Median	294.50	0.000
61	292.50	0.383
219	292.00	0.479
Std Dev	289.28	1.000
61	287.50	1.340
99	0.03	56.370

289.30 Total Molybdenum		
Lab	PPM	ICP

289.XX Total Molybdenum		
Lab	PPM	Total Method
64	11.96	-32.339
Std Dev	11.08	-1.000
9	11.05	0.000
43	11.05	0.000
43	11.05	0.000
Median	11.05	0.000
Std Dev	11.02	1.000
61	11.00	1.787
61	10.50	19.653

291.30 Total Nickel		
Lab	ICP	
61	13.50	-0.231
61	13.50	-0.231
64	13.40	-0.111
Median	13.30	0.000
9	13.20	0.111
Std Dev	12.42	1.000
43	12.00	1.481
43	12.00	1.481

291.XX Total Nickel		
Lab	PPM	Total Method
61	13.50	-0.231
61	13.50	-0.231
64	13.40	-0.111
Median	13.30	0.000
9	13.20	0.111
Std Dev	12.42	1.000
43	12.00	1.481
43	12.00	1.481

311.00 Sodium		
Lab	%Na ₂ O	Atomic Absorption
61	0.21	0.000
Median	0.21	0.000

311.99 Sodium		
Lab	%Na ₂ O	Other
23	0.21	-0.364
23	0.21	-0.364
24	0.21	-0.364
61	0.21	-0.364
Median	0.20	0.000
24	0.19	0.364
43	0.17	0.976
43	0.17	0.976
Std Dev	0.17	1.000
99	0.14	2.184

311.XX Sodium		
Lab	%Na ₂ O	Total Method
23	0.21	-0.182
23	0.21	-0.182
24	0.21	-0.182
61	0.21	-0.182
61	0.21	0.000
Median	0.21	0.000
24	0.19	0.546
Std Dev	0.18	1.000
43	0.17	1.158
43	0.17	1.158
99	0.14	2.366

321.00 Acid Soluble Zinc		
Lab	Atomic Absorption	
219	0.99	-1.340
Std Dev	0.98	-1.000
Median	0.97	0.000
Std Dev	0.96	1.000
49	0.95	1.340

321.20 Acid Soluble Zinc		
Lab	Zincon Ion Exchange	
99	1.04	0.000
Median	1.04	0.000

321.30 Acid Soluble Zinc		
Lab	PPM	ICP
64	#####	#####
61	#####	#####
61	#####	#####
110	1.52	-1.911
Std Dev	1.30	-1.000
40	1.15	-0.374
66	1.07	-0.042
18	1.07	-0.021
24	1.06	0.000
Median	1.06	0.000
24	1.05	0.042
34	1.02	0.166
23	1.02	0.187
23	1.01	0.208
103	1.01	0.216
38	0.99	0.307
111	0.98	0.332

321.99 Acid Soluble Zinc		
Lab		Other
275	1.82	-1.374
275	1.79	-1.325
Std Dev	1.59	-1.000
219	0.97	0.000
Median	0.97	0.000
43	0.96	0.015
43	0.96	0.019

321.XX Acid Soluble Zinc		
Lab	PPM	Total Method
64	#####	#####
61	#####	#####
61	#####	#####
275	1.82	-2.998
275	1.79	-2.883
110	1.52	-1.845
Std Dev	1.30	-1.000
40	1.15	-0.423
66	1.07	-0.115
18	1.07	-0.096
24	1.06	-0.077

24	1.05	-0.038
99	1.04	0.000
Median	1.04	0.000
34	1.02	0.077
23	1.02	0.096
23	1.01	0.115
103	1.01	0.123
219	0.99	0.205
38	0.99	0.208
111	0.98	0.231
219	0.97	0.254
43	0.96	0.289
43	0.96	0.300
49	0.95	0.340

325.10 Fluoride		
Lab	%	Electrode
23	1.88	-0.168
32	1.88	-0.168
34	1.87	-0.112
23	1.87	-0.056
32	1.86	0.000
Median	1.86	0.000
24	1.82	0.447
24	1.75	1.228
31	1.66	2.289
111	0.15	19.151

325.99 Fluoride		
Lab	%	Other
61	1.94	-1.340
Median	1.92	0.000
61	1.90	1.340

325.XX Fluoride		
Lab	%	Total Method
61	1.94	-1.117
61	1.90	-0.447
23	1.88	-0.149
32	1.88	-0.149
34	1.87	-0.074
23	1.87	0.000
Median	1.87	0.000
32	1.86	0.074

24	1.82	0.670
24	1.75	1.712
31	1.66	3.127
111	0.15	25.609