

AFPC

02-2023

Grade

MAP+S/Zn

Sample

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	2	11.79	0.01
Ammoniacal Nitrogen, Other		001.99	14	11.65	0.07
Method Group 001.XX PCT			16	11.65	0.13
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	2	11.65	0.01
Total Nitrogen, Combustion	993.13	010.60	12	11.80	0.04
Method Group 010.XX PCT			14	11.78	0.08
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	2	39.64	0.06
Total Phosphate, Spectrometric	978.02	020.20	22	39.44	0.13
Total Phosphate, ICP	970.03	020.40	2	39.94	0.46
Method Group 020.XX PCT			26	39.45	0.18
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	11	0.05	0.02
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	2	0.04	0.00
Insoluble Phosphate, Automated	978.01	030.40	2	0.05	0.01
Method Group 030.XX PCT			15	0.05	0.02
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Spectrometric	960.02	040.20	17	39.42	0.13
Indirect Available Phosphate, Other		040.99	1	39.38	0.00
Method Group 040.XX PCT			18	39.41	0.15
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	2	38.95	0.01
Direct Available Phosphate, Spectrometric	960.03D	041.20	1	39.22	0.00
Direct Available Phosphate, ICP		041.50	2	43.47	1.51
Direct Available Phosphate, EDTA Extract	993.01	041.60	1	39.33	0.00
Method Group 041.XX PCT			6	39.27	1.72
WATER SOLUBLE PHOSPHATE					
Water Soluble Phosphate, Spectrometric	970.01	048.20	14	36.68	0.22
Water Soluble Phosphate, Other		048.99	2	36.60	0.09
Method Group 048.XX PCT			16	36.68	0.26
SOLUBLE POTASH AS K₂O					
Soluble Potash, ICP(Oxalate)		050.50	2	0.18	0.00
Soluble Potash, Other		050.99	8	0.19	6.82
Method Group 050.XX PCT			10	0.19	0.01
FREE WATER					
Free Water, Vacuum Oven	965.08B	060.00	19	1.14	0.29
Free Water, Other		060.99	2	1.09	0.00
Method Group 060.XX PCT			21	1.09	0.35
ACID SOLUBLE CALCIUM AS CaO					
Acid Soluble Calcium, ICP		101.30	17	0.94	0.04
Method Group 101.XX PCT			17	0.94	0.05
ACID SOLUBLE MAGNESIUM AS MgO					
Acid Soluble Magnesium, ICP		121.30	17	0.95	0.02
Method Group 121.XX PCT			17	0.95	0.02
SULFATE SULFUR (S)					
Sulfur, Gravimetric	980.02(a)	144.01	7	6.14	0.06
Sulfur, Spectrometric		144.70	1	5.87	0.00
Sulfur, Other		144.99	10	6.11	0.10
Method Group 144.XX PCT			18	6.12	0.11
TOTAL SULFUR (S)					
Sulfur, Other		145.99	11	10.77	0.17
Method Group 145.XX PCT			11	10.77	0.20
TOTAL ARSENIC					

Total Arsenic, ICP	980.02(b)	151.02	8	5.0	2.7
Method Group 151.XX PPM			8	5.0	3.2
TOTAL CADMIUM					
Total Cadmium, ICP		181.30	8	47.1	0.8
Method Group 181.XX PPM			8	47.1	1.0
ALUMINUM AS Al₂O₃					
ICP, %			16	0.83	0.02
Method Group 190.XX PCT			16	0.83	0.03
TOTAL CHROMIUM					
Total Chromium, ICP		191.30	8	201	3.1
Method Group 191.XX PPM			8	201	3.8
ACID SOLUBLE COBALT					
Acid Soluble Cobalt, ICP		202.30	5	1	0.0
Method Group 202.XX PPM			5	1	0.0
ACID SOLUBLE COPPER					
Method Group 221.XX PPM			5	2.0	0.9
ACID SOLUBLE IRON AS Fe₂O₃					
Acid Soluble Iron, ICP		241.30	17	0.68	0.01
Method Group 241.XX PCT			17	0.68	0.01
TOTAL LEAD					
Total Lead, ICP		251.30	6	0.7	0.4
Method Group 251.XX PPM			6	0.7	0.5
ACID SOLUBLE MANGANESE					
Acid Soluble Manganese, ICP	972.02a	261.30	6	101	2.1
Acid Soluble Manganese, Other		261.99	2	121	0.4
Method Group 261.XX PPM			8	103	8.5
TOTAL MOLYBDENUM					
Total Molybdenum, ICP		289.30	7	3	1.3
Method Group 289.XX PPM			7	3	1.6
TOTAL NICKEL					
Total Nickel, ICP		291.30	7	9.3	0.7
Total Nickel, icp		291.99	1	10.8	0.0
Method Group 291.XX PPM			8	9.4	0.9
TOTAL SELENIUM					
Total Selenium, ICP		301.30	1	0.5	0.0
Method Group 301.XX PPM			1	0.5	0.0
SODIUM AS Na₂O					
Sodium, Other		311.99	10	1.20	0.03
Method Group 311.XX PCT			10	1.20	0.04
ACID SOLUBLE ZINC					
Acid Soluble Zinc, ICP		321.30	14	1.03	0.04
Acid Soluble Zinc, Other		321.99	3	1.02	0.04
Method Group 321.XX %			17	1.03	0.05
FLUORIDE					
Volumetric		325.10	14	1.36	0.06
Distilled/Electrode		325.99	2	1.37	0.01
Method Group 325.XX PCT			16	1.36	0.06

001.10 Ammoniacal Nitrogen		
Lab	MgO distillation	
31	11.81	-1.340
Std Dev	11.80	-1.000
Median	11.79	0.000
Std Dev	11.78	1.000
31	11.77	1.340

001.99 Ammoniacal Nitrogen		
Lab	Other	
23	11.84	-2.910
79	11.80	-2.297
79	11.78	-1.991
32	11.73	-1.149
Std Dev	11.72	-1.000
24	11.66	-0.077
32	11.66	-0.077
23	11.65	0.000
61	11.65	0.000
Median	11.65	0.000
24	11.64	0.230
38	11.64	0.230
34	11.62	0.536
Std Dev	11.58	1.000
61	11.57	1.225
55	11.56	1.455
113	11.36	4.518

001.XX Ammoniacal Nitrogen		
Lab	Total Method	
23	11.84	-1.763
31	11.81	-1.481
79	11.80	-1.387
79	11.78	-1.199
31	11.77	-1.105
Std Dev	11.76	-1.000
32	11.73	-0.682
24	11.66	-0.024
32	11.66	-0.024
Median	11.65	0.000
23	11.65	0.024
61	11.65	0.024
24	11.64	0.165
38	11.64	0.165

34	11.62	0.353
61	11.57	0.776
55	11.56	0.917
Std Dev	11.55	1.000
113	11.36	2.798

010.11 Total Nitrogen		
Lab	Modified Comprehensive	
43	11.66	-1.340
Std Dev	11.65	-1.000
Median	11.65	0.000
Std Dev	11.64	1.000
43	11.64	1.340

010.60 Total Nitrogen		
Lab	Combustion	
38	11.88	-2.159
103	11.84	-1.016
Std Dev	11.83	-1.000
79	11.82	-0.635
14	11.81	-0.381
14	11.81	-0.381
79	11.81	-0.381
Median	11.80	0.000
24	11.78	0.381
24	11.78	0.381
39	11.76	0.813
Std Dev	11.76	1.000
113	11.75	1.143
63	11.72	2.032
140	11.70	2.540

010.XX Total Nitrogen		
Lab	Total Method	
38	11.88	-1.554
Std Dev	11.84	-1.000
103	11.84	-0.854
79	11.82	-0.621
14	11.81	-0.466
14	11.81	-0.466
79	11.81	-0.466
24	11.78	0.000
Median	11.78	0.000
24	11.78	0.000

39	11.76	0.264
113	11.75	0.466
Std Dev	11.72	1.000
63	11.72	1.010
140	11.70	1.321
43	11.66	1.942
43	11.64	2.253

020.10 Total Phosphate		
Lab	Gravimetric Quimociac	
241	39.73	-1.340
Std Dev	39.70	-1.000
Median	39.64	0.000
Std Dev	39.58	1.000
241	39.56	1.340

020.20 Total Phosphate		
Lab	Spectrometric	
55	40.06	-4.839
32	39.66	-1.665
32	39.62	-1.391
31	39.62	-1.352
Std Dev	39.57	-1.000
79	39.53	-0.686
24	39.52	-0.607
61	39.52	-0.607
79	39.50	-0.451
31	39.48	-0.255
43	39.46	-0.098
61	39.45	-0.059
Median	39.44	0.000
23	39.44	0.059
34	39.43	0.098
23	39.43	0.137
43	39.43	0.137
140	39.42	0.215
16	39.33	0.905
Std Dev	39.31	1.000
14	39.27	1.391
14	39.27	1.391
24	39.27	1.391
113	39.04	3.154
38	39.00	3.468

020.40 Total Phosphate		
Lab	Automated	
110	40.55	-1.340
Std Dev	40.39	-1.000
Median	39.94	0.000
Std Dev	39.48	1.000
16	39.32	1.340

020.XX Total Phosphate		
Lab	Total Method	
110	40.55	-7.227
55	40.06	-4.000
241	39.73	-1.794
32	39.66	-1.333
32	39.62	-1.103
31	39.62	-1.070
Std Dev	39.60	-1.000
241	39.56	-0.708
79	39.53	-0.510
24	39.52	-0.444
61	39.52	-0.444
79	39.50	-0.313
31	39.48	-0.148
43	39.46	-0.016
Median	39.45	0.000
61	39.45	0.016
23	39.44	0.115
34	39.43	0.148
23	39.43	0.181
43	39.43	0.181
140	39.42	0.247
16	39.33	0.826
16	39.32	0.849
Std Dev	39.30	1.000
14	39.27	1.235
14	39.27	1.235
24	39.27	1.235
113	39.04	2.716
38	39.00	2.980

030.20 Insoluble Phosphate		
Lab	Spectrometric	
23	0.14	-3.928
23	0.13	-3.466

140	0.08	-1.386
Std Dev	0.07	-1.000
113	0.06	-0.462
32	0.06	-0.231
61	0.05	0.000
Median	0.05	0.000
43	0.05	0.023
43	0.04	0.370
24	0.04	0.462
32	0.04	0.462
Std Dev	0.03	1.000
24	0.02	1.386

030.30 Insoluble Phosphate		
Lab Alka. Quimociac		
31	0.04	-1.340
Std Dev	0.04	-1.000
Median	0.04	0.000
Std Dev	0.03	1.000
31	0.03	1.340

030.40 Insoluble Phosphate		
Lab Automated		
34	0.06	-1.340
Std Dev	0.05	-1.000
Median	0.05	0.000
Std Dev	0.04	1.000
16	0.04	1.340

030.XX Insoluble Phosphate		
Lab Total Method		
23	0.14	-6.547
23	0.13	-5.781
140	0.08	-2.335
Std Dev	0.06	-1.000
113	0.06	-0.804
32	0.06	-0.421
34	0.06	-0.421
61	0.05	-0.038
43	0.05	0.000
Median	0.05	0.000
43	0.04	0.574
16	0.04	0.651
24	0.04	0.727

31	0.04	0.727
32	0.04	0.727
Std Dev	0.04	1.000
31	0.03	1.493
24	0.02	2.259

040.20 Indirect Available Phosphate		
Lab Spectrometric		
32	39.61	-1.414
31	39.58	-1.191
32	39.57	-1.117
Std Dev	39.55	-1.000
24	39.48	-0.484
79	39.48	-0.484
61	39.47	-0.409
79	39.45	-0.261
31	39.45	-0.223
43	39.42	0.000
Median	39.42	0.000
61	39.40	0.112
43	39.38	0.298
140	39.34	0.596
23	39.30	0.856
23	39.30	0.856
16	39.29	0.968
Std Dev	39.28	1.000
24	39.25	1.266
113	38.98	3.238

040.99 Indirect Available Phosphate		
Lab Other		
34	39.38	0.000
Median	39.38	0.000

040.XX Indirect Available Phosphate		
Lab Total Method		
32	39.61	-1.568
31	39.58	-1.330
32	39.57	-1.251
Std Dev	39.53	-1.000
24	39.48	-0.576
79	39.48	-0.576
61	39.47	-0.496
79	39.45	-0.337

31	39.45	-0.298
43	39.42	-0.060
Median	39.41	0.000
61	39.40	0.060
34	39.38	0.258
43	39.38	0.258
140	39.34	0.576
23	39.30	0.854
23	39.30	0.854
16	39.29	0.973
Std Dev	39.28	1.000
24	39.25	1.290
113	38.98	3.395

041.10 Direct Available Phosphate		
Lab Gravimetric Quimociac		
79	38.96	-1.340
Std Dev	38.96	-1.000
Median	38.95	0.000
Std Dev	38.94	1.000
79	38.94	1.340

041.20 Direct Available Phosphate		
Lab Spectrometric		
38	39.22	0.000
Median	39.22	0.000

041.50 Direct Available Phosphate		
Lab ICP		
63	45.50	-1.340
Std Dev	44.98	-1.000
Median	43.47	0.000
Std Dev	41.96	1.000
39	41.45	1.340

041.60 Direct Available Phosphate		
Lab EDTA Extract		
103	39.33	0.000
Median	39.33	0.000

041.XX Direct Available Phosphate		
Lab Total Method		
63	45.50	-4.406
39	41.45	-1.538

Std Dev	40.68	-1.000
103	39.33	-0.041
Median	39.27	0.000
38	39.22	0.041
79	38.96	0.221
79	38.94	0.235

048.20 Water Soluble Phosphate		
Lab Spectrometric		
32	37.04	-1.633
32	36.93	-1.115
Std Dev	36.90	-1.000
79	36.83	-0.687
31	36.82	-0.642
31	36.76	-0.372
79	36.75	-0.327
61	36.69	-0.034
Median	36.68	0.000
140	36.67	0.034
23	36.66	0.101
61	36.59	0.394
24	36.48	0.890
Std Dev	36.46	1.000
23	36.45	1.047
24	36.44	1.070
113	36.27	1.858

048.99 Water Soluble Phosphate		
Lab Other		
16	36.72	-1.340
Std Dev	36.69	-1.000
Median	36.60	0.000
Std Dev	36.51	1.000
34	36.49	1.340

048.XX Water Soluble Phosphate		
Lab Total Method		
32	37.04	-1.668
32	36.93	-1.139
Std Dev	36.89	-1.000
79	36.83	-0.702
31	36.82	-0.656
31	36.76	-0.380
79	36.75	-0.334

16	36.72	-0.196
61	36.69	-0.035
Median	36.68	0.000
140	36.67	0.035
23	36.66	0.104
61	36.59	0.403
34	36.49	0.886
24	36.48	0.909
Std Dev	36.46	1.000
23	36.45	1.070
24	36.44	1.093
113	36.27	1.898

050.50	%K ₂ O	Soluble Potash
Lab		ICP(Oxalate)
23	0.19	-1.340
Std Dev	0.18	-1.000
Median	0.18	0.000
Std Dev	0.18	1.000
23	0.18	1.340

050.99	%K ₂ O	Soluble Potash
Lab		Other
43	36.85	-5.378
43	36.66	-5.350
Std Dev	7.01	-1.000
61	0.21	-0.002
24	0.19	0.000
31	0.19	0.000
Median	0.19	0.000
31	0.19	0.001
61	0.19	0.001
24	0.18	0.001

050.XX	%K ₂ O	Soluble Potash
Lab		Total Method
43	36.85	-3022.834
43	36.66	-3007.578
61	0.21	-1.443
Std Dev	0.20	-1.000
24	0.19	-0.206
31	0.19	-0.206
Median	0.19	0.000
23	0.19	0.206

31	0.19	0.206
61	0.19	0.206
23	0.18	0.618
24	0.18	0.618

060.00	Free Water	
Lab	Vacuum Oven	
55	1.94	-2.754
Std Dev	1.43	-1.000
24	1.36	-0.753
23	1.35	-0.735
23	1.32	-0.633
31	1.32	-0.633
16	1.31	-0.593
113	1.30	-0.564
24	1.16	-0.068
43	1.15	-0.034
43	1.14	0.000
Median	1.14	0.000
31	1.04	0.325
140	1.00	0.462
32	0.95	0.650
34	0.93	0.718
79	0.92	0.735
79	0.92	0.735
32	0.91	0.787
Std Dev	0.84	1.000
61	0.78	1.214
61	0.67	1.591

060.99	Free Water	
Lab	Other	
14	1.09	0.000
14	1.09	0.000
Median	1.09	0.000

060.99	Free Water	
Lab	Other	
14	1.09	0.000
14	1.09	0.000
Median	1.09	0.000

060.XX	Free Water	
Lab	Total Method	
55	1.94	-2.970
Std Dev	1.38	-1.000
24	1.36	-0.926
23	1.35	-0.908
23	1.32	-0.804
31	1.32	-0.804

16	1.31	-0.763
113	1.30	-0.734
24	1.16	-0.227
43	1.15	-0.192
43	1.14	-0.157
14	1.09	0.000
14	1.09	0.000
Median	1.09	0.000
31	1.04	0.175
140	1.00	0.314
32	0.95	0.507
34	0.93	0.577
79	0.92	0.594
79	0.92	0.594
32	0.91	0.646
Std Dev	0.80	1.000
61	0.78	1.083
61	0.67	1.468

101.30	Acid Soluble Calcium	
Lab	%CaO ICP	
61	0.98	-0.957
34	0.98	-0.957
24	0.97	-0.718
14	0.96	-0.598
14	0.96	-0.598
61	0.96	-0.479
32	0.95	-0.239
23	0.94	0.000
32	0.94	0.000
Median	0.94	0.000
31	0.92	0.371
43	0.91	0.673
23	0.91	0.718
31	0.90	0.742
43	0.90	0.890
Std Dev	0.89	1.000
16	0.89	1.077
24	0.81	2.991
103	0.65	6.939

101.XX	Acid Soluble Calcium	
Lab	%CaO Total Method	
61	0.98	-0.957

34	0.98	-0.957
24	0.97	-0.718
14	0.96	-0.598
14	0.96	-0.598
61	0.96	-0.479
32	0.95	-0.239
23	0.94	0.000
32	0.94	0.000
Median	0.94	0.000
31	0.92	0.371
43	0.91	0.673
23	0.91	0.718
31	0.90	0.742
43	0.90	0.890
Std Dev	0.89	1.000
16	0.89	1.077
24	0.81	2.991
103	0.65	6.939

121.30	Acid Soluble Magnesium	
Lab	%MgO ICP	
34	1.00	-2.948
61	1.00	-2.680
24	0.98	-1.608
23	0.97	-1.340
Std Dev	0.96	-1.000
14	0.96	-0.804
14	0.96	-0.804
32	0.96	-0.536
32	0.95	-0.268
24	0.95	0.000
Median	0.95	0.000
23	0.95	0.000
16	0.94	0.268
31	0.94	0.268
31	0.94	0.536
Std Dev	0.93	1.000
61	0.93	1.072
43	0.88	3.484
43	0.88	3.484
103	0.53	22.244

121.XX	Acid Soluble Magnesium	
Lab	%MgO Total Method	
61	0.93	1.072

34	1.00	-2.948
61	1.00	-2.680
24	0.98	-1.608
23	0.97	-1.340
Std Dev	0.96	-1.000
14	0.96	-0.804
14	0.96	-0.804
32	0.96	-0.536
32	0.95	-0.268
24	0.95	0.000
Median	0.95	0.000
23	0.95	0.000
16	0.94	0.268
31	0.94	0.268
31	0.94	0.536
Std Dev	0.93	1.000
61	0.93	1.072
43	0.88	3.484
43	0.88	3.484
103	0.53	22.244

144..01 Sulfate Sulfur (S)		
Lab	Gravimetric	
140	6.22	-1.297
Std Dev	6.20	-1.000
241	6.17	-0.432
16	6.14	0.000
241	6.14	0.000
Median	6.14	0.000
38	6.12	0.346
Std Dev	6.08	1.000
79	6.03	1.902
79	6.03	1.902

144.70 Sulfur		
Lab	Spectrometric	
16	5.87	0.000
Median	5.87	0.000

144.99 Sulfate Sulfur (S)		
Lab	Other	
31	6.31	-1.956
Std Dev	6.21	-1.000
31	6.21	-0.990

113	6.16	-0.459
24	6.15	-0.362
24	6.12	-0.072
Median	6.11	0.000
23	6.10	0.072
23	6.03	0.797
34	6.01	0.942
Std Dev	6.00	1.000
32	5.89	2.149
32	5.72	3.791

144.XX Sulfate Sulfur (S)		
Lab	Total Method	
31	6.31	-2.043
140	6.22	-1.035
Std Dev	6.21	-1.000
31	6.21	-0.982
241	6.17	-0.504
113	6.16	-0.398
24	6.15	-0.292
16	6.14	-0.239
241	6.14	-0.239
38	6.12	-0.027
Median	6.12	0.000
24	6.12	0.027
23	6.10	0.186
79	6.03	0.929
79	6.03	0.929
23	6.03	0.982
Std Dev	6.02	1.000
34	6.01	1.141
32	5.89	2.468
16	5.87	2.627
32	5.72	4.272

145.99 Total Sulfur (S)		
Lab	Other	
32	10.88	-0.662
32	10.86	-0.572
34	10.86	-0.542
23	10.85	-0.482
63	10.79	-0.151
23	10.77	0.000
Median	10.77	0.000

113	10.70	0.422
43	10.65	0.693
43	10.61	0.964
14	10.60	0.994
14	10.60	0.994

145.XX Total Sulfur (S)		
Lab	Total Method	
32	10.88	-0.662
32	10.86	-0.572
34	10.86	-0.542
23	10.85	-0.482
63	10.79	-0.151
23	10.77	0.000
Median	10.77	0.000
113	10.70	0.422
43	10.65	0.693
43	10.61	0.964
14	10.60	0.994
14	10.60	0.994

151.30 Total Arsenic		
Lab	ICP	
43	13.25	-3.098
43	12.90	-2.966
Std Dev	7.66	-1.000
113	6.38	-0.516
61	5.00	0.000
61	5.00	0.000
Median	5.00	0.000
31	4.55	0.169
31	4.10	0.338
Std Dev	2.34	1.000
140	2.15	1.072

151.XX Total Arsenic		
Lab	Total Method	
43	13.25	-3.098
43	12.90	-2.966
Std Dev	7.66	-1.000
113	6.38	-0.516
61	5.00	0.000
61	5.00	0.000
Median	5.00	0.000

31	4.55	0.169
31	4.10	0.338
Std Dev	2.34	1.000
140	2.15	1.072

181.30 Total Cadmium		
Lab	PPM	ICP
61	48.50	-1.674
Std Dev	47.94	-1.000
113	47.60	-0.586
43	47.58	-0.562
43	47.13	-0.018
Median	47.12	0.000
31	47.10	0.018
31	46.65	0.562
Std Dev	46.29	1.000
16	45.96	1.402
61	44.00	3.765

181.XX Total Cadmium		
Lab	PPM	Total Method
61	48.50	-1.674
Std Dev	47.94	-1.000
113	47.60	-0.586
43	47.58	-0.562
43	47.13	-0.018
Median	47.12	0.000
31	47.10	0.018
31	46.65	0.562
Std Dev	46.29	1.000
16	45.96	1.402
61	44.00	3.765

190.00 Aluminum		
Lab	%Al ₂ O ₃	ICP
16	0.86	-1.608
14	0.85	-1.005
14	0.85	-1.005
Std Dev	0.85	-1.000
61	0.84	-0.558
31	0.84	-0.558
23	0.84	-0.335
34	0.84	-0.335
31	0.83	-0.112

Median	0.83	0.000
24	0.83	0.112
23	0.82	0.335
43	0.82	0.558
24	0.81	0.782
43	0.81	0.782
Std Dev	0.81	1.000
32	0.80	1.228
61	0.80	1.228
32	0.80	1.452

190.XX Aluminum		
Lab	%Al ₂ O ₃	Total Method
16	0.86	-1.608
14	0.85	-1.005
14	0.85	-1.005
Std Dev	0.85	-1.000
61	0.84	-0.558
31	0.84	-0.558
23	0.84	-0.335
34	0.84	-0.335
31	0.83	-0.112

Median	0.83	0.000
24	0.83	0.112
23	0.82	0.335
43	0.82	0.558
24	0.81	0.782
43	0.81	0.782
Std Dev	0.81	1.000
32	0.80	1.228
61	0.80	1.228
32	0.80	1.452

191.30 Total Chromium		
Lab	PPM	ICP
61	205.00	-1.218
Std Dev	204.33	-1.000
61	203.00	-0.568
31	202.80	-0.504
43	201.50	-0.081
Median	201.25	0.000
43	201.00	0.081
31	200.15	0.357
Std Dev	198.17	1.000

16	194.45	2.209
113	189.00	3.979

191.XX Total Chromium		
Lab	PPM	Total Method
61	205.00	-1.218
Std Dev	204.33	-1.000
61	203.00	-0.568
31	202.80	-0.504
43	201.50	-0.081
Median	201.25	0.000
43	201.00	0.081
31	200.15	0.357
Std Dev	198.17	1.000
16	194.45	2.209
113	189.00	3.979

202.30 Acid Soluble Cobalt		
Lab	PPM	ICP
16	1.18	0.080
43	1.00	0.000
43	1.00	0.000
61	1.00	0.000
61	1.00	0.000
Median	1.00	0.000

202.XX Acid Soluble Cobalt		
Lab	PPM	Total Method
16	1.18	0.080
43	1.00	0.000
43	1.00	0.000
61	1.00	0.000
61	1.00	0.000
Median	1.00	0.000

221.30 Acid Soluble Copper		
Lab	PPM	ICP
16	5.19	-4.268
Std Dev	2.75	-1.000
61	2.00	0.000
61	2.00	0.000
Median	2.00	0.000
Std Dev	1.25	1.000
43	1.00	1.340
43	1.00	1.340

221.XX Acid Soluble Copper		
Lab	PPM	Total Method
16	5.19	-4.268
Std Dev	2.75	-1.000

61	2.00	0.000
61	2.00	0.000
Median	2.00	0.000
Std Dev	1.25	1.000
43	1.00	1.340
43	1.00	1.340

241.30 Acid Soluble Iron		
Lab	%Fe ₂ O ₃	ICP
23	0.71	-2.680
23	0.70	-1.787
24	0.70	-1.787
61	0.70	-1.787
34	0.70	-1.340
Std Dev	0.69	-1.000
24	0.69	-0.447
31	0.69	-0.447
16	0.68	-0.357
14	0.68	0.000
14	0.68	0.000
31	0.68	0.000
43	0.68	0.000
Median	0.68	0.000
32	0.68	0.000
61	0.68	0.447
43	0.67	0.893
Std Dev	0.67	1.000
32	0.67	1.340
103	0.47	18.760

241.XX Acid Soluble Iron		
Lab	%Fe ₂ O ₃	Total Method
23	0.71	-2.680
23	0.70	-1.787
24	0.70	-1.787
61	0.70	-1.787
34	0.70	-1.340
Std Dev	0.69	-1.000
24	0.69	-0.447
31	0.69	-0.447
16	0.68	-0.357
14	0.68	0.000
14	0.68	0.000
31	0.68	0.000
43	0.68	0.000

43	0.68	0.000
Median	0.68	0.000
32	0.68	0.000
61	0.68	0.447
43	0.67	0.893
Std Dev	0.67	1.000
32	0.67	1.340
103	0.47	18.760

251.30 Total Lead		
Lab	PPM	ICP
61	1.20	-1.404
61	1.20	-1.404
Std Dev	1.04	-1.000
43	0.65	0.000
43	0.65	0.000
Median	0.65	0.000
113	0.50	0.383
Std Dev	0.26	1.000
16	0.00	1.659

251.XX Total Lead		
Lab	PPM	Total Method
61	1.20	-1.404
61	1.20	-1.404
Std Dev	1.04	-1.000
43	0.65	0.000
43	0.65	0.000
Median	0.65	0.000
113	0.50	0.383
Std Dev	0.26	1.000
16	0.00	1.659

261.30 Acid Soluble Manganese		
Lab	PPM	ICP
31	106.75	-2.716
31	103.95	-1.368
Std Dev	103.18	-1.000
61	101.50	-0.189
Median	101.11	0.000
16	100.72	0.189
61	100.50	0.292
Std Dev	99.03	1.000
103	0.01	48.665

261.99 Acid Soluble Manganese		
Lab	PPM	Other
43	121.00	-1.340
Std Dev	120.87	-1.000
Median	120.50	0.000
Std Dev	120.13	1.000
43	120.00	1.340

261.XX Acid Soluble Manganese		
Lab	PPM	Total Method
43	121.00	-2.605
43	120.00	-2.462
Std Dev	109.74	-1.000
31	106.75	-0.574
31	103.95	-0.175
Median	102.73	0.000
61	101.50	0.175
16	100.72	0.286
61	100.50	0.317
Std Dev	95.71	1.000
103	0.01	14.640

289.30 Total Molybdenum		
Lab	PPM	ICP
61	8.00	-4.034
61	5.50	-2.094
Std Dev	4.09	-1.000
16	2.91	-0.081
43	2.80	0.000
Median	2.80	0.000
43	2.75	0.039
31	2.20	0.465
Std Dev	1.51	1.000
31	1.30	1.164

289.XX Total Molybdenum		
Lab	PPM	Total Method
61	8.00	-4.034
61	5.50	-2.094
Std Dev	4.09	-1.000
16	2.91	-0.081
43	2.80	0.000
Median	2.80	0.000
43	2.75	0.039
31	2.20	0.465
Std Dev	1.51	1.000
31	1.30	1.164

291.30 Total Nickel		
Lab	PPM	ICP
31	10.80	0.000

291.99 Total Nickel		
Lab	PPM	Other
31	10.80	0.000

31 10.80 0.000		
Median	10.80	0.000
31	10.80	0.000

291.XX Total Nickel		
Lab	PPM	Total Method
31	10.80	-1.918
31	10.50	-1.516
Std Dev	10.12	-1.000
43	9.50	-0.176
16	9.45	-0.109
Median	9.37	0.000
113	9.29	0.109
43	9.00	0.494
Std Dev	8.62	1.000
61	8.00	1.834
61	3.00	8.534

301.30 Total Selenium		
Lab	PPM	ICP
113	0.50	0.000
Median	0.50	0.000

301.XX Total Selenium		
Lab	PPM	Total Method
113	0.50	0.000
Median	0.50	0.000

311.99 Sodium		
Lab	%Na ₂ O	Other
23	1.25	-1.449
23	1.24	-1.304
61	1.24	-1.304
Std Dev	1.23	-1.000
24	1.20	0.000
31	1.20	0.000
31	1.20	0.000
Median	1.20	0.000
24	1.19	0.290
43	1.18	0.386
43	1.17	0.693
Std Dev	1.16	1.000
61	1.14	1.738

311.XX Sodium		
Lab	%Na ₂ O	Total Method
23	1.25	-1.449
23	1.24	-1.304
61	1.24	-1.304
Std Dev	1.23	-1.000
24	1.20	0.000
31	1.20	0.000
31	1.20	0.000
Median	1.20	0.000
24	1.19	0.290
43	1.18	0.386
43	1.17	0.693
Std Dev	1.16	1.000
61	1.14	1.738

321.30 Acid Soluble Zinc		
Lab	PPM	ICP
140	1.08	-1.122
Std Dev	1.07	-1.000
31	1.07	-0.997
31	1.07	-0.997
23	1.07	-0.873
23	1.06	-0.748
24	1.04	-0.249
32	1.03	0.000
61	1.03	0.000
Median	1.03	0.000
24	1.02	0.374
32	1.01	0.499
61	1.01	0.499
Std Dev	0.99	1.000
16	0.97	1.496
43	0.94	2.244
43	0.94	2.244

321.99 Acid Soluble Zinc		
Lab	PPM	Other
63	1.11	-2.297
Std Dev	1.05	-1.000
34	1.02	0.000
Median	1.02	0.000
38	1.00	0.383

321.XX Acid Soluble Zinc		
Lab	PPM	Total Method
63	1.11	-1.827
140	1.08	-1.096
Std Dev	1.07	-1.000
31	1.07	-0.975
31	1.07	-0.975
23	1.07	-0.853
23	1.06	-0.731
24	1.04	-0.244
32	1.03	0.000
61	1.03	0.000
Median	1.03	0.000
24	1.02	0.365
34	1.02	0.365
32	1.01	0.487
61	1.01	0.487
38	1.00	0.731
Std Dev	0.99	1.000
16	0.97	1.462
43	0.94	2.193
43	0.94	2.193

325.10 Fluoride		
Lab	%	Electrode
79	1.60	-4.218
79	1.57	-3.690
14	1.42	-1.054
14	1.42	-1.054
23	1.42	-0.967
23	1.40	-0.703
16	1.36	0.000
31	1.36	0.000
Median	1.36	0.000
31	1.36	0.088
24	1.35	0.176
24	1.34	0.351
34	1.31	0.967
32	1.30	1.142
32	1.29	1.318

325.99 Fluoride		
Lab	%	Other
61	1.39	-1.340

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Median	1.37	0.000
61	1.36	1.340

325.XX Lab	%	Fluoride Total Method
79	1.60	-4.678
79	1.57	-4.093
14	1.42	-1.169
14	1.42	-1.169
23	1.42	-1.072
23	1.40	-0.780
61	1.39	-0.487
16	1.36	0.000
31	1.36	0.000
61	1.36	0.000
Median	1.36	0.000
31	1.36	0.097
24	1.35	0.195
24	1.34	0.390
34	1.31	1.072
32	1.30	1.267
32	1.29	1.462