

AFPC

2019-12

Sample

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	1	11.46	0.00
Ammoniacal Nitrogen, Other		001.99	14	11.42	0.07
Method Group 001.XX PCT			15	11.42	0.07
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	1	11.46	0.00
Total Nitrogen, Combustion	993.13	010.60	16	11.45	0.08
Method Group 010.XX PCT			17	11.46	0.05
TOTAL PHOSPHATE					
Total Phosphate, Spectrometric	978.02	020.20	18	53.16	0.20
Total Phosphate, ICP	970.03	020.40	2	53.11	0.25
Method Group 020.XX PCT			20	53.16	0.27
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	11	0.13	0.04
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	1	0.16	0.00
Insoluble Phosphate, Automated	978.01	030.40	1	0.13	0.00
Method Group 030.XX PCT			13	0.13	0.05
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Spectrometric	960.02	040.20	12	52.99	0.23
Indirect Available Phosphate, Other		040.99	1	52.87	0.00
Method Group 040.XX PCT			13	52.94	0.25
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	2	53.49	0.14
Direct Available Phosphate, Spectrometric	960.03D	041.20	2	53.03	0.10
Direct Available Phosphate, Automated	978.01	041.40	1	49.99	0.00
Direct Available Phosphate, ICP		041.50	4	51.21	3.99
Direct Available Phosphate, EDTA Extract	993.01	041.60	7	52.63	0.72
Method Group 041.XX PCT			16	52.76	1.50
WATER SOLUBLE PHOSPHATE					
Water Soluble Phosphate, Spectrometric	970.01	048.20	15	48.11	0.34
Water Soluble Phosphate, Other		048.99	2	47.83	0.12
Method Group 048.XX PCT			17	48.06	0.52
SOLUBLE POTASH AS K₂O					
Soluble Potash, ICP(Oxalate)		050.50	3	0.12	0.01
Soluble Potash, ICP(Citrate)		050.51	1	0.12	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	14	1.10	0.20
Free Water, Other		060.99	5	0.87	0.04
Method Group 060.XX PCT			19	1.09	0.33
ACID SOLUBLE CALCIUM AS CaO					
Acid Soluble Calcium, ICP		101.30	13	0.67	0.03
Method Group 101.XX PCT			13	0.67	0.04
ACID SOLUBLE MAGNESIUM AS MgO					
Acid Soluble Magnesium, ICP		121.30	13	1.14	0.03
Method Group 121.XX PCT			13	1.14	0.04
SULFATE SULFUR (S)					
Sulfur, Gravimetric	980.02(a)	144.01	2	1.55	0.03
Sulfur, Other		144.99	10	1.48	0.05
Method Group 144.XX PCT			12	1.51	0.06
TOTAL SULFUR (S)					
Sulfur, Other		145.99	1	1.55	0.0
Method Group 145.XX PCT			1	1.55	0.0

TOTAL ARSENIC					
Total Arsenic, ICP	980.02(b)	151.02	5	10.0	10.3
Method Group 151.XX PPM			5	10.0	12.5
ACID SOLUBLE BORON					
Acid Soluble Boron, Other		165.99	2	64	29.0
Method Group 165.XX PPM			2	64	35.4
TOTAL CADMIUM					
Total Cadmium, ICP		181.30	7	133.8	10.4
Total Cadmium, Other		181.99	1	156.5	0.0
Method Group 181.XX PPM			8	139.9	13.2
ALUMINUM AS Al₂O₃					
ICP, %			14	1.73	0.08
Water Soluble Chlorine, Other, %		190.99	1	1.67	0.00
Method Group 190.XX PCT			15	1.72	0.09
TOTAL CHROMIUM					
Total Chromium, ICP		191.30	5	594	15.3
Total Chromium, Other		191.99	1	731	0.0
Method Group 191.XX PPM			6	604	25.3
ACID SOLUBLE COBALT					
Acid Soluble Cobalt, ICP		202.30	4	3	1.0
Acid Soluble Cobalt, Other		202.99	1	4	0.0
Method Group 202.XX PPM			5	4	0.6
ACID SOLUBLE COPPER					
Acid Soluble Copper, Other		221.99	1	0.9	0.0
Method Group 221.XX PPM			5	57.5	8.0
ACID SOLUBLE IRON AS Fe₂O₃					
Acid Soluble Iron, ICP		241.30	15	1.09	0.03
Method Group 241.XX PCT			15	1.09	0.04
TOTAL LEAD					
Total Lead, ICP		251.30	7	1.7	1.8
Total Lead, Other		251.99	1	1.4	0.0
Method Group 251.XX PPM			8	1.6	1.9
ACID SOLUBLE MANGANESE					
Acid Soluble Manganese, ICP	972.02a	261.30	2	178	4.2
Acid Soluble Manganese, Other		261.99	3	185	9.3
Method Group 261.XX PPM			5	183	7.7
TOTAL MERCURY					
Total Mercury, ICP		281.30	1	0.00	0.00
Total Mercury, Other		281.99	2	0	0.00
Method Group 281.XX PPM			3	0.00	0.05
TOTAL MOLYBDENUM					
Total Molybdenum, ICP		289.30	5	17	2.2
Total Molybdenum, Other		289.99	1	30	0.0
Method Group 289.XX PPM			6	17	3.8
TOTAL NICKEL					
Total Nickel, ICP		291.30	4	233.5	36.9
Total Nickel, icp		291.99	2	202.0	43.3
Method Group 291.XX PPM			6	233.5	72.3
TOTAL SELENIUM					
Total Selenium, ICP		301.30	2	0.1	0.0
Method Group 301.XX PPM			2	0.1	0.1
SODIUM AS Na₂O					
Sodium, Other		311.99	8	0.12	0.01
Method Group 311.XX PCT			8	0.12	0.02
ACID SOLUBLE ZINC					
Acid Soluble Zinc, ICP		321.30	5	1882.5	42.0
Method Group 321.XX %			5	1882.5	51.1
FLUORIDE					
Volumetric		325.10	12	1.57	0.05

Distilled/Electrode	325.99	2	1.70	0.00
Method Group 325.XX PCT		14	1.58	0.06

001.10 Ammoniacal Nitrogen		
Lab		MgO distillation
31	11.46	0.000
Median	11.46	0.000

001.99 Ammoniacal Nitrogen		
Lab		Other
275	11.53	-1.666
32	11.50	-1.231
32	11.50	-1.231
61	11.49	-1.086
Std Dev	11.48	-1.000
61	11.46	-0.652
79	11.45	-0.507
34	11.42	-0.072
Median	11.42	0.000
23	11.41	0.072
24	11.41	0.072
79	11.41	0.145
24	11.39	0.435
275	11.38	0.507
23	11.38	0.579
Std Dev	11.35	1.000
38	10.96	6.664

001.XX Ammoniacal Nitrogen		
Lab		Total Method
275	11.53	-1.842
32	11.50	-1.340
32	11.50	-1.340
61	11.49	-1.173
Std Dev	11.48	-1.000
31	11.46	-0.670
61	11.46	-0.670
79	11.45	-0.502
34	11.42	0.000
Median	11.42	0.000
23	11.41	0.167
24	11.41	0.167
79	11.41	0.251
24	11.39	0.586
275	11.38	0.670
23	11.38	0.754
Std Dev	11.36	1.000

38 10.96 7.789

010.11 Total Nitrogen		
Lab		Modified Comprehensive
219	11.46	0.000
Median	11.46	0.000

010.60 Total Nitrogen		
Lab		Combustion
66	11.57	-1.536
219	11.55	-1.275
31	11.54	-1.144
Std Dev	11.53	-1.000
77	11.51	-0.686
103	11.49	-0.425
140	11.48	-0.360
79	11.46	-0.098
47	11.46	-0.033
Median	11.45	0.000
29	11.45	0.033
80	11.45	0.033
137	11.44	0.163
79	11.43	0.360
Std Dev	11.38	1.000
14	11.28	2.320
14	11.27	2.386
38	11.23	2.974
111	10.99	6.112

010.XX Total Nitrogen		
Lab		Total Method
66	11.57	-2.568
219	11.55	-2.122
31	11.54	-1.898
77	11.51	-1.117
Std Dev	11.50	-1.000
103	11.49	-0.670
140	11.48	-0.558
79	11.46	-0.112
47	11.46	0.000
219	11.46	0.000
Median	11.46	0.000
29	11.45	0.112
80	11.45	0.112

137	11.44	0.335
79	11.43	0.670
Std Dev	11.41	1.000
14	11.28	4.020
14	11.27	4.132
38	11.23	5.137
111	10.99	10.497

020.20 Total Phosphate		
Lab		Spectrometric
14	53.79	-3.168
14	53.77	-3.068
111	53.60	-2.192
Std Dev	53.36	-1.000
31	53.35	-0.939
275	53.31	-0.764
32	53.25	-0.463
24	53.24	-0.388
79	53.19	-0.163
24	53.18	-0.113
Median	53.16	0.000
61	53.14	0.113
275	53.13	0.138
79	53.04	0.589
32	53.04	0.614
140	53.03	0.664
34	53.00	0.814
Std Dev	52.96	1.000
61	52.92	1.215
23	52.88	1.415
23	52.73	2.167

020.40 Total Phosphate		
Lab		Automated
111	53.45	-1.340
Std Dev	53.36	-1.000
Median	53.11	0.000
Std Dev	52.86	1.000
137	52.77	1.340

020.XX Total Phosphate		
Lab		Total Method
14	53.79	-2.813
14	53.77	-2.724

111	53.60	-1.946
111	53.45	-1.301
Std Dev	53.38	-1.000
31	53.35	-0.834
275	53.31	-0.678
32	53.25	-0.411
24	53.24	-0.345
79	53.19	-0.145
24	53.18	-0.100
Median	53.16	0.000
61	53.14	0.100
275	53.13	0.122
79	53.04	0.523
32	53.04	0.545
140	53.03	0.589
34	53.00	0.723
Std Dev	52.93	1.000
61	52.92	1.079
23	52.88	1.257
137	52.77	1.724
23	52.73	1.924

030.20 Insoluble Phosphate		
Lab		Spectrometric
23	0.18	-1.049
140	0.18	-1.049
Std Dev	0.17	-1.000
23	0.16	-0.583
79	0.15	-0.350
79	0.14	-0.233
61	0.13	0.000
61	0.13	0.000
Median	0.13	0.000
32	0.11	0.583
Std Dev	0.09	1.000
32	0.08	1.165
24	0.06	1.748
24	0.04	2.214

030.30 Insoluble Phosphate		
Lab		Alka. Quimociac
31	0.16	0.000
Median	0.16	0.000

030.40 Insoluble Phosphate		
Lab	Automated	
34	0.13	0.000
Median	0.13	0.000

030.XX Insoluble Phosphate		
Lab	Total Method	
23	0.18	-1.206
140	0.18	-1.206
Std Dev	0.17	-1.000
23	0.16	-0.670
31	0.16	-0.670
79	0.15	-0.402
79	0.14	-0.268
61	0.13	0.000
61	0.13	0.000
Median	0.13	0.000
34	0.13	0.134
32	0.11	0.670
Std Dev	0.09	1.000
32	0.08	1.340
24	0.06	2.010
24	0.04	2.546

040.20 Indirect Available Phosphate		
Lab	Spectrometric	
24	53.21	-0.937
31	53.19	-0.871
32	53.18	-0.805
24	53.13	-0.585
61	53.06	-0.276
79	53.05	-0.232
Median	52.99	0.000
32	52.94	0.232
79	52.90	0.430
140	52.85	0.629
61	52.79	0.915
Std Dev	52.77	1.000
23	52.72	1.202
23	52.55	1.952

040.99 Indirect Available Phosphate		
Lab	Other	
34	52.87	0.000

Median	52.87	0.000
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040.XX Indirect Available Phosphate		
Lab	Total Method	
24	53.21	-1.291
31	53.19	-1.218
32	53.18	-1.145
Std Dev	53.15	-1.000
24	53.13	-0.901
61	53.06	-0.560
79	53.05	-0.512
32	52.94	0.000
Median	52.94	0.000
79	52.90	0.219
34	52.87	0.341
140	52.85	0.439
61	52.79	0.755
Std Dev	52.73	1.000
23	52.72	1.072
23	52.55	1.900

041.10 Direct Available Phosphate		
Lab	Gravimetric Quimociac	
47	53.67	-1.340
Std Dev	53.62	-1.000
Median	53.49	0.000
Std Dev	53.35	1.000
219	53.31	1.340

041.20 Direct Available Phosphate		
Lab	Spectrometric	
47	53.16	-1.340
Std Dev	53.13	-1.000
Median	53.03	0.000
Std Dev	52.93	1.000
38	52.90	1.340

041.40 Direct Available Phosphate		
Lab	Automated	
111	49.99	0.000
Median	49.99	0.000

041.50 Direct Available Phosphate		
Lab	ICP	

39	56.19	-1.248
Std Dev	55.19	-1.000
66	52.41	-0.300
Median	51.21	0.000
111	50.01	0.300
Std Dev	47.22	1.000
80	42.00	2.309

041.60 Direct Available Phosphate		
Lab	EDTA Extract	
29	54.30	-2.325
Std Dev	53.35	-1.000
219	53.19	-0.778
77	53.12	-0.680
137	52.63	0.000
Median	52.63	0.000
79	52.28	0.479
79	52.09	0.743
Std Dev	51.90	1.000
103	49.19	4.777

041.XX Direct Available Phosphate		
Lab	Total Method	
39	56.19	-2.790
29	54.30	-1.254
Std Dev	53.99	-1.000
47	53.67	-0.741
219	53.31	-0.444
219	53.19	-0.346
47	53.16	-0.326
77	53.12	-0.289
38	52.90	-0.110
Median	52.76	0.000
137	52.63	0.110
66	52.41	0.289
79	52.28	0.391
79	52.09	0.546
Std Dev	51.53	1.000
111	50.01	2.240
111	49.99	2.257
103	49.19	2.912
80	42.00	8.765

048.20 Water Soluble Phosphate		
Lab	Spectrometric	
24	48.57	-1.340
32	48.53	-1.223
Std Dev	48.45	-1.000
79	48.38	-0.787
31	48.35	-0.699
32	48.31	-0.597
79	48.20	-0.262
14	48.14	-0.102
61	48.11	0.000
Median	48.11	0.000
14	48.06	0.146
24	48.00	0.306
140	48.00	0.306
Std Dev	47.76	1.000
61	47.74	1.078
111	47.73	1.107
23	47.59	1.500
23	47.47	1.850

048.99 Water Soluble Phosphate		
Lab	Other	
34	47.99	-1.340
Std Dev	47.95	-1.000
Median	47.83	0.000
Std Dev	47.72	1.000
111	47.68	1.340

048.XX Water Soluble Phosphate		
Lab	Total Method	
24	48.57	-1.189
32	48.53	-1.095
Std Dev	48.48	-1.000
79	48.38	-0.746
31	48.35	-0.676
32	48.31	-0.594
79	48.20	-0.326
14	48.14	-0.198
61	48.11	-0.117
14	48.06	0.000
Median	48.06	0.000
24	48.00	0.128
140	48.00	0.128

34	47.99	0.151
61	47.74	0.746
111	47.73	0.769
111	47.68	0.880
Std Dev	47.63	1.000
23	47.59	1.084
23	47.47	1.363

050.50	%K ₂ O	Soluble Potash
Lab		ICP(Oxalate)
111	0.14	-2.509
Std Dev	0.13	-1.000
23	0.12	0.000
Median	0.12	0.000
23	0.12	0.171

050.51	%K ₂ O	Soluble Potash
Lab		ICP(Citrate)
137	0.12	0.000
Median	0.12	0.000

050.99	%K ₂ O	Soluble Potash
Lab		Other
61	0.13	-1.191
Std Dev	0.12	-1.000
24	0.12	0.000
24	0.12	0.000
61	0.12	0.000
Median	0.12	0.000
Std Dev	0.12	1.000
31	0.11	1.787
80	0.10	4.764

050.XX	%K ₂ O	Soluble Potash
Lab		Total Method
111	0.14	-8.576
61	0.13	-2.144
Std Dev	0.12	-1.000
24	0.12	0.000
24	0.12	0.000
61	0.12	0.000
137	0.12	0.000
Median	0.12	0.000
23	0.12	0.858

Std Dev	0.12	1.000
23	0.12	1.501
31	0.11	3.216
80	0.10	8.576

060.00		Free Water
Lab		Vacuum Oven
31	1.43	-1.648
34	1.34	-1.220
24	1.32	-1.120
24	1.31	-1.044
Std Dev	1.30	-1.000
79	1.14	-0.189
23	1.12	-0.088
32	1.11	-0.038
Median	1.10	0.000
140	1.09	0.038
23	1.09	0.063
32	1.02	0.415
79	0.99	0.541
Std Dev	0.90	1.000
111	0.86	1.220
61	0.70	2.001
61	0.68	2.126

060.99		Free Water
Lab		Other
47	1.75	-19.653
Std Dev	0.91	-1.000
275	0.89	-0.447
275	0.87	0.000
Median	0.87	0.000
14	0.83	0.893
Std Dev	0.83	1.000
14	0.82	1.228

060.XX		Free Water
Lab		Total Method
47	1.75	-2.493
31	1.43	-1.274
Std Dev	1.35	-1.000
34	1.34	-0.956
24	1.32	-0.881
24	1.31	-0.825

79	1.14	-0.187
23	1.12	-0.112
32	1.11	-0.075
140	1.09	-0.019
23	1.09	0.000
Median	1.09	0.000
32	1.02	0.262
79	0.99	0.356
275	0.89	0.731
275	0.87	0.806
111	0.86	0.862
14	0.83	0.956
Std Dev	0.82	1.000
14	0.82	1.012
61	0.70	1.443
61	0.68	1.537

101.30	%CaO	Acid Soluble Calcium
Lab		ICP
32	0.76	-3.015
111	0.74	-2.236
32	0.74	-2.178
Std Dev	0.70	-1.000
61	0.69	-0.503
24	0.68	-0.168
24	0.68	-0.168
23	0.67	0.000
Median	0.67	0.000
34	0.67	0.000
61	0.66	0.503
31	0.65	0.838
Std Dev	0.64	1.000
23	0.64	1.173
14	0.63	1.508
14	0.60	2.345

101.XX	%CaO	Acid Soluble Calcium
Lab		Total Method
32	0.76	-3.015
111	0.74	-2.236
32	0.74	-2.178
Std Dev	0.70	-1.000
61	0.69	-0.503
24	0.68	-0.168

24	0.68	-0.168
23	0.67	0.000
Median	0.67	0.000
34	0.67	0.000
61	0.66	0.503
31	0.65	0.838
Std Dev	0.64	1.000
23	0.64	1.173
14	0.63	1.508
14	0.60	2.345

121.30	%MgO	Acid Soluble Magnesium
Lab		ICP
32	1.17	-1.042
Std Dev	1.17	-1.000
24	1.16	-0.744
32	1.16	-0.744
34	1.16	-0.744
111	1.14	-0.099
24	1.14	0.000
23	1.14	0.000
Median	1.14	0.000
61	1.13	0.149
31	1.12	0.372
23	1.12	0.596
Std Dev	1.10	1.000
14	1.10	1.042
14	1.10	1.042
61	1.07	2.084

121.XX	%MgO	Acid Soluble Magnesium
Lab		Total Method
32	1.17	-1.042
Std Dev	1.17	-1.000
24	1.16	-0.744
32	1.16	-0.744
34	1.16	-0.744
111	1.14	-0.099
24	1.14	0.000
23	1.14	0.000
Median	1.14	0.000
61	1.13	0.149
31	1.12	0.372
23	1.12	0.596

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Std Dev	1.10	1.000
14	1.10	1.042
14	1.10	1.042
61	1.07	2.084

144..01 Sulfate Sulfur (S)		
Lab	Gravimetric	
79	1.60	-1.340
Std Dev	1.58	-1.000
Median	1.55	0.000
Std Dev	1.52	1.000
79	1.51	1.340

144.99 Sulfate Sulfur (S)		
Lab	Other	
23	1.57	-1.769
24	1.55	-1.447
Std Dev	1.53	-1.000
23	1.52	-0.697
61	1.51	-0.590
24	1.50	-0.375
Median	1.48	0.000
32	1.47	0.375
32	1.46	0.590
34	1.45	0.697
Std Dev	1.44	1.000
31	1.42	1.447
61	1.38	2.198

144.XX Sulfate Sulfur (S)		
Lab	Total Method	
79	1.60	-1.723
23	1.57	-1.149
Std Dev	1.56	-1.000
24	1.55	-0.861
23	1.52	-0.191
61	1.51	-0.096
79	1.51	-0.096
Median	1.51	0.000
24	1.50	0.096
32	1.47	0.766
32	1.46	0.957
Std Dev	1.45	1.000
34	1.45	1.053

31	1.42	1.723
61	1.38	2.393

145.99 Total Sulfur (S)		
Lab	Other	
111	1.55	0.000
Median	1.55	0.000

145.XX Total Sulfur (S)		
Lab	Total Method	
111	1.55	0.000
Median	1.55	0.000

151.30 Total Arsenic		
Lab	ICP	
140	24.85	-1.448
Std Dev	20.26	-1.000
31	15.80	-0.565
111	10.00	0.000
Median	10.00	0.000
24	2.06	0.775
38	0.00	0.975

151.XX Total Arsenic		
Lab	Total Method	
140	24.85	-1.448
Std Dev	20.26	-1.000
31	15.80	-0.565
111	10.00	0.000
Median	10.00	0.000
24	2.06	0.775
38	0.00	0.975

165.99 Acid Soluble Boron		
Lab	PPM	Other
111	103.00	-1.340
Std Dev	93.13	-1.000
Median	64.10	0.000
Std Dev	35.07	1.000
24	25.20	1.340

165.XX, ppm Acid Soluble Boron		
Lab	PPM	Total Method
111	103.00	-1.340

Std Dev	93.13	-1.000
Median	64.10	0.000
Std Dev	35.07	1.000
24	25.20	1.340

181.30 Total Cadmium		
Lab	PPM	ICP
61	149.50	-1.509
31	146.75	-1.245
61	146.00	-1.173
Std Dev	144.20	-1.000
275	133.80	0.000
Median	133.80	0.000
111	133.50	0.029
275	131.37	0.234
Std Dev	123.40	1.000
38	47.00	8.344

181.99 Total Cadmium		
Lab	Other	
24	156.50	0.000
Median	156.50	0.000

181.XX Total Cadmium		
Lab	PPM	Total Method
24	156.50	-1.537
Std Dev	150.70	-1.000
61	149.50	-0.889
31	146.75	-0.634
61	146.00	-0.565
Median	139.90	0.000
275	133.80	0.565
111	133.50	0.593
275	131.37	0.790
Std Dev	129.10	1.000
38	47.00	8.603

190.00 Aluminum		
Lab	%Al ₂ O ₃	ICP
275	1.78	-0.601
14	1.77	-0.475
14	1.77	-0.475
32	1.77	-0.411
24	1.76	-0.392

275	1.76	-0.348
23	1.75	-0.158
Median	1.73	0.000
24	1.72	0.158
32	1.71	0.348
23	1.69	0.601
Std Dev	1.65	1.000
34	1.65	1.044
61	1.64	1.234
61	1.62	1.424
111	1.18	6.982

190.99 Aluminum		
Lab	%Al ₂ O ₃	Atomic Absorption
31	1.67	0.000
Median	1.67	0.000

190.XX Aluminum		
Lab	%Al ₂ O ₃	Total Method
275	1.78	-0.771
14	1.77	-0.643
14	1.77	-0.643
32	1.77	-0.578
24	1.76	-0.559
275	1.76	-0.514
23	1.75	-0.321
24	1.72	0.000
Median	1.72	0.000
32	1.71	0.193
23	1.69	0.450
31	1.67	0.643
34	1.65	0.900
Std Dev	1.64	1.000
61	1.64	1.093
61	1.62	1.285
111	1.18	6.930

191.30 Total Chromium		
Lab	ICP	
61	623.50	-1.961
31	613.50	-1.307
Std Dev	608.80	-1.000
111	593.50	0.000
Median	593.50	0.000

61	593.00	0.033
Std Dev	578.20	1.000
38	210.00	25.068

191.99	Total Chromium	
Lab	PPM	Other
24	731.00	0.000
Median	731.00	0.000

191.XX	Total Chromium	
Lab	PPM	Total Method
24	731.00	-6.129
Std Dev	624.30	-1.000
61	623.50	-0.961
31	613.50	-0.481
Median	603.50	0.000
111	593.50	0.481
61	593.00	0.505
Std Dev	582.70	1.000
38	210.00	18.916

202.30	Acid Soluble Cobalt	
Lab	PPM	ICP
61		

202.99	Acid Soluble Cobalt	
Lab		Other
24	3.68	0.000
Median	3.68	0.000

202.XX	Acid Soluble Cobalt	
Lab	PPM	Total Method
61	4.00	-0.993
24	3.68	-0.347
61	3.50	0.000
Median	3.50	0.000
111	3.00	0.993
Std Dev	3.00	1.000
38	0.00	6.948

221.30	Acid Soluble Copper	
Lab	PPM	ICP
111	76.00	-2.954
Std Dev	63.76	-1.000
61	57.50	0.000

61	57.50	0.000
Median	57.50	0.000
Std Dev	51.24	1.000
31	42.44	2.406

221.99	Acid Soluble Copper	
Lab		Other
24	66.30	0.000
Median	66.30	0.000

221.XX	Acid Soluble Copper	
Lab	PPM	Total Method
111	76.00	-2.817
24	66.30	-1.340
Std Dev	64.07	-1.000
61	57.50	0.000
61	57.50	0.000
Median	57.50	0.000
Std Dev	50.93	1.000
31	42.44	2.294

241.30	Acid Soluble Iron	
Lab	%Fe ₂ O ₃	ICP
275	1.17	-2.751
275	1.15	-2.063
24	1.12	-1.032
Std Dev	1.12	-1.000
24	1.11	-0.516
111	1.10	-0.273
32	1.10	-0.172
23	1.09	0.000
61	1.09	0.000
Median	1.09	0.000
32	1.09	0.172
34	1.08	0.344
14	1.07	0.860
Std Dev	1.06	1.000
23	1.06	1.032
31	1.06	1.032
61	1.03	2.063
14	1.02	2.407

241.XX	Acid Soluble Iron	
Lab	%Fe ₂ O ₃	Total Method
61	57.50	0.000

275	1.17	-2.751
275	1.15	-2.063
24	1.12	-1.032
Std Dev	1.12	-1.000
24	1.11	-0.516
111	1.10	-0.273
32	1.10	-0.172
23	1.09	0.000
61	1.09	0.000
Median	1.09	0.000
32	1.09	0.172
34	1.08	0.344
14	1.07	0.860
Std Dev	1.06	1.000
23	1.06	1.032
31	1.06	1.032
61	1.03	2.063
14	1.02	2.407

251.30	Total Lead	
Lab	PPM	ICP
61	4.00	-1.297
Std Dev	3.48	-1.000
275	2.90	-0.670
275	2.80	-0.613
31	1.73	0.000
Median	1.73	0.000
111	1.00	0.413
38	0.00	0.984
61	0.00	0.984

251.99	Total Lead	
Lab		Other
24	1.42	0.000
Median	1.42	0.000

251.XX	Total Lead	
Lab	PPM	Total Method
61	4.00	-1.569
Std Dev	3.12	-1.000
275	2.90	-0.859
275	2.80	-0.794
31	1.73	-0.100
Median	1.57	0.000

24	1.42	0.100
111	1.00	0.368
Std Dev	0.02	1.000
38	0.00	1.014
61	0.00	1.014

261.30	Acid Soluble Manganese	
Lab		ICP
31	183.25	-1.340
Std Dev	181.82	-1.000
Median	177.63	0.000
Std Dev	173.43	1.000
111	172.00	1.340

261.99	Acid Soluble Manganese	
Lab	PPM	Other
24	201.00	-1.769
Std Dev	193.83	-1.000
61	184.50	0.000
Median	184.50	0.000
61	176.00	0.911

261.XX	Acid Soluble Manganese	
Lab	PPM	Total Method
24	201.00	-2.798
Std Dev	189.59	-1.000
61	184.50	-0.197
31	183.25	0.000
Median	183.25	0.000
Std Dev	176.91	1.000
61	176.00	1.143
111	172.00	1.774

281.30	Total Mercury	
Lab	PPM	ICP
24	0.11	0.000
Median	0.11	0.000

281.99	Total Mercury	
Lab	PPM	Other
275	0.00	-1.340
Std Dev	0.00	-1.000
Median	0.00	0.000
Std Dev	0.00	1.000

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275	0.00	1.340
281.XX Total Mercury		
Lab	PPM	Total Method
24	0.11	-2.675
Std Dev	0.04	-1.000
275	0.00	0.000
Median	0.00	0.000
275	0.00	0.005
289.30 Total Molybdenum		
Lab	PPM	ICP
111		
289.99 Total Molybdenum		
Lab	PPM	Other
24	30.05	0.000
Median	30.05	0.000
289.XX Total Molybdenum		
Lab	PPM	Total Method
24	30.05	-4.158
Std Dev	20.33	-1.000
111	20.00	-0.893
61	18.00	-0.244
Median	17.25	0.000
61	16.50	0.244
31	15.00	0.731
Std Dev	14.17	1.000
38	0.00	5.604
291.30 Total Nickel		
Lab		ICP
31		
291.99 Total Nickel		
Lab	PPM	Other
24	260.00	-1.340
Std Dev	245.28	-1.000
Median	202.00	0.000
Std Dev	158.72	1.000
111	144.00	1.340
291.XX Total Nickel		
Lab	PPM	Total Method
24	260.00	-0.446

31	246.75	-0.223
61	238.50	-0.084
Median	233.50	0.000
61	228.50	0.084
Std Dev	174.13	1.000
111	144.00	1.507
38	79.00	2.602
301.30 Total Selenium		
Lab	PPM	ICP
24	0.13	-1.340
Std Dev	0.12	-1.000
Median	0.07	0.000
Std Dev	0.02	1.000
38	0.00	1.340
301.XX Total Selenium		
Lab	PPM	Total Mthod
24	0.13	-1.340
Std Dev	0.12	-1.000
Median	0.07	0.000
Std Dev	0.02	1.000
38	0.00	1.340
311.99 Sodium		
Lab	%Na ₂ O	Other
23	0.15	-2.736
23	0.15	-2.196
Std Dev	0.13	-1.000
111	0.12	-0.284
31	0.12	-0.193
Median	0.12	0.000
61	0.12	0.193
24	0.11	0.578
24	0.11	0.578
61	0.11	0.578
311.XX Sodium		
Lab	%Na ₂ O	Total Method
23	0.15	-2.736
23	0.15	-2.196
Std Dev	0.13	-1.000
111	0.12	-0.284
31	0.12	-0.193

Median	0.12	0.000
61	0.12	0.193
24	0.11	0.578
24	0.11	0.578
61	0.11	0.578
321.30 Acid Soluble Zinc		
Lab	PPM	ICP
24	2225.00	-8.159
Std Dev	1924.48	-1.000
31	1921.25	-0.923
61	1882.50	0.000
Median	1882.50	0.000
61	1865.00	0.417
111	1855.00	0.655
321.XX Acid Soluble Zinc		
Lab	PPM	Total Method
24	2225.00	-8.159
Std Dev	1924.48	-1.000
31	1921.25	-0.923
61	1882.50	0.000
Median	1882.50	0.000
61	1865.00	0.417
111	1855.00	0.655
325.10 Fluoride		
Lab	%	Electrode
32	1.62	-0.993
23	1.61	-0.794
23	1.61	-0.695
32	1.60	-0.596
31	1.58	-0.248
14	1.58	-0.199
Median	1.57	0.000
79	1.56	0.199
14	1.56	0.298
24	1.54	0.695
24	1.53	0.794
79	1.50	1.489
34	1.48	1.787
325.99 Fluoride		
Lab	%	Other

61	1.71	-1.340
Median	1.70	0.000
61	1.70	1.340
325.XX Fluoride		
Lab	%	Total Method
61	1.71	-2.412
61	1.70	-2.217
32	1.62	-0.755
23	1.61	-0.560
23	1.61	-0.463
32	1.60	-0.365
31	1.58	-0.024
Median	1.58	0.000
14	1.58	0.024
79	1.56	0.414
14	1.56	0.512
24	1.54	0.901
24	1.53	0.999
79	1.50	1.681
34	1.48	1.973