AFPC Rock Check Program

Sample No. 2021-07

	Method #	# of Anal.	Grand Median	Std Dev
Moisture				
Ground Sample AFPC IX.2.A	101	25	0.87	0.090
Other (describe)	102	15	0.97	0.144
Method Group 100		40	0.93	0.10
P_2O_5				
Gravimetric AFPC IX.3.B	201	11	30.51	0.110
ICP-inducted coupled plasma AFPC IX.3.D	202	2	30.55	0.049
AOAC 962.02-15th	203	8	30.53	0.106
Photometric-AFPC IX.3.C	204	30	30.48	0.156
Automated -AOAC 978.01-15th	205	7	30.39	0.146
Method Group 200		58	30.49	0.16
P_2O_5 (on Dry Basis)				
Gravimetric AFPC IX.3.B	211	8	30.79	0.049
ICP-inducted coupled plasma AFPC IX.3.D	212	2	30.81	0.050
AOAC 962.02-15th	213	8	30.81	0.064
Photometric-AFPC IX.3.C	214	16	30.78	0.074
Automated -AOAC 978.01-15th	215	5	30.66	0.122
Method Group 210		39	30.78	0.09
Fe_2O_3				
Atomic Absorption-AFPC IX.6.B	301	3	1.12	0.127
ICP-inducted coupled plasma-AFPC IX.6.C	302	38	1.22	0.103
Other(describe)	303	7	1.41	0.179
Method Group 300		48	1.21	0.11
Al_2O_3				
Atomic Absorption-AFPC IX.7.B	401	5	0.98	0.052
ICP-inducted coupled plasma-AFPC IX.7.C	402	36	0.97	0.094
Other(describe)	403	5	1.22	0.030
Method Group 400		46	0.98	0.10
MgO				
Atomic Absorption-AFPC IX.8.A	501	7	0.47	0.043
ICP-inducted coupled plasma-AFPC IX.8.B	502	38	0.48	0.018
Other(describe)	503	5	0.44	0.022
Method Group 500		50	0.48	0.03
Acid Insoluble				
Insoluble-AFPC IX.4.A	601	23	7.78	0.183
Other(describe)	602	4	7.90	0.243
Method Group 600		27	7.78	0.22
Carbon Dioxide				
Gasometric-AFPC IX.13.B	651	18	3.82	0.296
Other(describe)	652	21	4.62	0.243
Method Group 650		39	4.25	0.68
CaO				
Gravimetric sulfate-AFPC IX.12.A	701	1	45.59	0.000
ICP-inducted coupled plasma-AFPC IX.12.D	702	22	45.92	0.407
Ceric Sulfate volumetric-AFPC IX.12.B	703			
Permanganate	704	2	45.60	0.004
EDTA Volumetric-AFPC IX.12.C	705			
Other(describe)	706	19	45.73	0.623
Method Group 700		44	45.74	0.42
CaO (on Dry Basis)				
Gravimetric sulfate-AFPC IX.12.A	711	1	45.94	0.000
ICP-inducted coupled plasma-AFPC IX.12.D	712	14	46.29	0.444
Ceric Sulfate volumetric-AFPC IX.12.B	713			
Permanganate	714	2	45.99	0.012
EDTA Volumetric-AFPC IX.12.C	715			
Other(describe)	716	16	46.16	0.601
Method Group 710		32	46.16	0.47

	Method #	# of Anal.	Grand Median	Std Dev
Fluorine, F				
Volumetric-AFPC IX.14.A	801			
Specific Ion Electrode-AFPC IX.14.B	802	29	3.59	0.119
Oher(describe)	803	3	3.57	0.013
Method Group 800		32	3.58	0.11
Arsenic, As				
Atomic Absorption	911	2	12.7	0.02
ICP-inducted coupled plasma-AFPC IX.15.B	912	21	15.0	3.32
Other(describe)	913	1	15.0	0.00
Method Group 900		24	14.5	2.71
Cadmium, Cd				
Atomic Absorption-AFPC IX.11.A	921	8	4	0.4
ICP-inducted coupled plasma-AFPC IX.11.B	922	29	4	0.7
Other(describe)	923	1	3	0.0
Method Group 910		38	4	0.7
Cobalt, Co				
Atomic Absorption-AFPC IX.16.B	931	2	7	2.3
ICP-inducted coupled plasma-AFPC IX.16.A	932	22	3	1.9
Other(describe)	933	1	5	0.0
Method Group 920		25	4	1.5
Mercury, Hg				
Atomic Absorption-AFPC IX.16.B	941	2	0.2	0.02
ICP-inducted coupled plasma-AFPC IX.16.A	942	8	0.0	0.22
Other(describe)	943	1	0.0	0.00
Method Group 930		11	0.1	0.18
Molybdenum, Mo				
Atomic Absorption-AFPC IX.16.B	951	1	9	0.0
ICP-inducted coupled plasma-AFPC IX.16.A	952	22	11	2.4
Other(describe)	953	1	15	0.0
Method Group 940		24	11	2.7
Nickel, Ni				
Atomic Absorption-AFPC IX.16.B	961	2	14	0.6
ICP-inducted coupled plasma-AFPC IX.16.A	962	27	21	4.2
Other(describe)	963	2	27	5.6
Method Group 950		31	21	4.7
Lead, Pb				
Atomic Absorption-AFPC IX.16.B	971	1	11	0.0
ICP-inducted coupled plasma-AFPC IX.16.A	972	22	11	4.4
Other(describe)	973	1	14	0.0
Method Group 960		24	11	4.5
Selenium, Se				
Atomic Absorption-AFPC IX.16.B	981			
ICP-inducted coupled plasma-AFPC IX.16.A	982	9		1.4
Other(describe)	983	1	3	0.0
Method Group 970		10	1	1.7
Zinc, Zn				
Atomic Absorption-AFPC IX.16.B	991	1	47	0
ICP-inducted coupled plasma-AFPC IX.16.A	992	26	53	6
Other(describe)	993	2	48	9
Method Group 980		29	52	6

101	Ground Sample AFPC IX.2.A	
Lab	%	H_2O
21	1.03	-1.731
21	1.02	-1.675
16	0.99	-1.390
16	0.99	-1.295
13	0.98	-1.173
13	0.97	-1.117
24	0.96	-1.005
24	0.96	-1.005
Std Dev	0.96	-1.000
15	0.93	-0.670
15	0.93	-0.670
9	0.93	-0.614
55	0.89	-0.223
26	0.87	0.000
Median	0.87	0.000
10	0.87	0.056
26	0.86	0.112
10	0.86	0.168
88	0.85	0.223
30	0.85	0.279
88	0.84	0.335
9	0.83	0.447
Std Dev	0.78	1.000
22	0.77	1.117
77	0.77	1.117
49	0.66	2.345
77	0.64	2.568
270	0.34	5.974

102	Other (describe)	
Lab	%	H_2O
83	1.03	-0.381
84	1.02	-0.346
83	1.01	-0.242
84	1.01	-0.242
86	1.01	-0.242
86	0.98	-0.069
85	0.97	0.000
89	0.97	0.000
Median	0.97	0.000
85	0.97	0.035
89	0.96	0.069
82	0.85	0.831
Std Dev	0.83	1.000
275	0.77	1.364
81	0.49	3.324
35	0.33	4.467
35	0.32	4.501

201	Gravimetric AFPC IX.3.B	
Lab	%	P2O5
22	30.79	-2.544
77	30.68	-1.544
22	30.68	-1.499
Std Dev	30.62	-1.000
56	30.58	-0.591
241	30.57	-0.545
89	30.51	0.000
Median	30.51	0.000
89	30.49	0.227
84	30.48	0.273
82	30.48	0.318
84	30.47	0.363
Std Dev	30.40	1.000
55	30.35	1.454

202	ICP-inducted coupled plasma AFPC IX.3.D	
Lab	%	P2O5
10	30.61	-1.340
Std Dev	30.59	-1.000
Median	30.55	0.000
Std Dev	30.50	1.000
10	30.48	1.340

203	AOAC 962.02-15th	
Lab	%	P2O5
49	30.65	-1.128
Std Dev	30.63	-1.000
9	30.62	-0.846
21	30.61	-0.752
9	30.55	-0.235
Median	30.53	0.000
83	30.50	0.235
83	30.49	0.376
Std Dev	30.42	1.000
21	30.41	1.128
270	29.76	7.241

204	Photometric-AFPC IX.3.C	
Lab	%	P2O5
81	30.68	-1.316
87	30.68	-1.284
13	30.67	-1.220
45	30.67	-1.220
45	30.66	-1.188
16	30.65	-1.107
Std Dev	30.63	-1.000
16	30.61	-0.834
24	30.56	-0.514
87	30.55	-0.449
30	30.53	-0.321
88	30.52	-0.289
15	30.49	-0.096
15	30.49	-0.096
10	30.49	-0.064
10	30.48	0.000
88	30.48	0.000
Median	30.48	0.000
13	30.47	0.032
24	30.47	0.032
26	30.47	0.032
26	30.47	0.032
51	30.40	0.514
237	30.37	0.674
51	30.34	0.899
Std Dev	30.32	1.000
92	30.32	1.027
78	30.31	1.059
92	30.29	1.220
35	30.15	2.086
78	30.15	2.086
237	30.14	2.183
35	30.04	2.792

205	Automated -AOAC 978.01-15th	
Lab	%	P2O5
56	30.79	-2.743
86	30.59	-1.393
Std Dev	30.54	-1.000
86	30.52	-0.875
77	30.39	0.000
Median	30.39	0.000
85	30.36	0.206
85	30.36	0.206
19	30.28	0.754

211	Gravimetric AFPC IX.3.B		
Lab	%	P2O5	dB
22	31.03		-4.930
77	30.92		-2.653
Std Dev	30.84		-1.000
89	30.81		-0.347
84	30.79		-0.108
Median	30.79		0.000
89	30.78		0.108
84	30.78		0.195
Std Dev	30.74		1.000
82	30.74		1.080
55	30.62		3.415

212	ICP-inducted coupled plasma AFPC IX.3.D		
Lab	%	P2O5	dB
10	30.88		-1.340
Std Dev	30.86		-1.000
Median	30.81		0.000
Std Dev	30.76		1.000
10	30.74		1.340

213	AOAC 962.02-15th		
Lab	%	P2O5	dB
21	30.92		-1.728
9	30.90		-1.400
Std Dev	30.88		-1.000
49	30.85		-0.588
83	30.82		-0.079
Median	30.81		0.000
9	30.81		0.079
83	30.79		0.253
Std Dev	30.75		1.000
21	30.72		1.437
270	29.86		14.855

214	Photometric-AFPC IX.3.C		
Lab	%	P2O5	dB

13	30.97	-2.548
16	30.96	-2.413
16	30.91	-1.799
24	30.85	-1.010
Std Dev	30.85	-1.000
81	30.83	-0.739
30	30.79	-0.120
88	30.78	-0.073
15	30.78	0.000
15	30.78	0.000
Median	30.78	0.000
13	30.77	0.084
24	30.77	0.146
26	30.74	0.523
26	30.73	0.565
88	30.73	0.580
Std Dev	30.70	1.000
35	30.25	7.113
35	30.14	8.620

215 Automated -AOAC 978.01-15th

Lab	%	P2O5	dB
86	30.90		-2.015
86	30.82		-1.327
Std Dev	30.78		-1.000
85	30.66		0.000
Median	30.66		0.000
85	30.66		0.013
77	30.59		0.586

301 Atomic Absorption-AFPC IX.6.B

Lab	%	Fe2O3	
30	1.20		-0.670
86	1.12		0.000
Median	1.12		0.000
Std Dev	0.99		1.000
55	0.86		2.010

302 ICP-inducted coupled plasma-AFPC IX.6.C

Lab	%	Fe2O3	
35	1.54		-3.070
35	1.47		-2.436
78	1.46		-2.339
51	1.35		-1.218
78	1.35		-1.218
Std Dev	1.32		-1.000
81	1.32		-0.975
45	1.32		-0.926
45	1.32		-0.926
51	1.30		-0.780
15	1.29		-0.682
15	1.29		-0.682
16	1.28		-0.594
82	1.28		-0.585
16	1.27		-0.468
84	1.26		-0.390
22	1.25		-0.292
85	1.25		-0.292
84	1.25		-0.244
270	1.25		-0.244
Median	1.22		0.000
83	1.20		0.244
85	1.18		0.390
92	1.18		0.390
92	1.18		0.390
83	1.18		0.439
237	1.17		0.443
237	1.16		0.546
9	1.16		0.585
21	1.16		0.585
86	1.15		0.682
21	1.15		0.731
24	1.14		0.780
49	1.14		0.828
10	1.12		0.975
13	1.12		0.975
Std Dev	1.12		1.000
24	1.12		1.023
9	1.11		1.072
13	1.08		1.413
10	1.07		1.511

303 Other(describe)

Lab	%	Fe2O3	
56	1.61		-1.145
Std Dev	1.58		-1.000
77	1.45		-0.251
22	1.43		-0.140
77	1.41		0.000
Median	1.41		0.000
Std Dev	1.23		1.000
19	1.22		1.033
89	1.18		1.256
89	1.18		1.284

401 Atomic Absorption-AFPC IX.6.B

Lab	%	Al2O3	
30	1.02		-0.861
85	0.99		-0.191
85	0.98		0.000
Median	0.98		0.000
Std Dev	0.92		1.000
21	0.92		1.149
55	0.68		5.743

402 ICP-inducted coupled plasma-AFPC IX.6.C

Lab	%	Al2O3	
78	1.14		-1.716
81	1.12		-1.504
78	1.11		-1.451
51	1.11		-1.398
270	1.10		-1.291
Std Dev	1.07		-1.000
51	1.07		-0.973
82	1.06		-0.920
84	1.05		-0.814
84	1.05		-0.761
86	1.05		-0.761
35	1.03		-0.602
86	1.01		-0.389
83	1.00		-0.230
237	0.99		-0.135
83	0.98		-0.071
92	0.98		-0.071
92	0.98		-0.071
237	0.98		-0.035
Median	0.97		0.000
24	0.97		0.035
45	0.97		0.035
45	0.97		0.088
16	0.96		0.128
35	0.95		0.248
24	0.94		0.354
16	0.94		0.368
49	0.94		0.407
13	0.92		0.566
21	0.92		0.619
9	0.91		0.672
9	0.91		0.672
15	0.90		0.778
15	0.90		0.778
10	0.90		0.831
13	0.89		0.937
10	0.88		0.991
22	0.88		0.991

403 Other(describe)

Lab	%	Al2O3	
19	1.29		-2.513
56	1.25		-1.173
Std Dev	1.24		-1.000
77	1.22		0.000
Median	1.22		0.000
77	1.21		0.167
22	1.21		0.335

501 Atomic Absorption-AFPC IX.8.A

Lab	%	MgO	
86	0.51		-0.932
88	0.51		-0.932
88	0.50		-0.699
30	0.47		0.000
Median	0.47		0.000
55	0.45		0.350
87	0.44		0.699
Std Dev	0.42		1.000
87	0.42		1.049

502 ICP-inducted coupled plasma-AFPC IX.8.B

Lab	%	MgO	
21	0.52		-2.257
24	0.52		-1.975
13	0.51		-1.693
21	0.51		-1.411
83	0.51		-1.411
84	0.50		-1.128

86	0.50	-1.128
Std Dev	0.50	-1.000
45	0.50	-0.846
45	0.50	-0.846
84	0.50	-0.846
15	0.49	-0.564
15	0.49	-0.564
237	0.49	-0.378
10	0.49	-0.282
51	0.49	-0.282
82	0.49	-0.282
270	0.49	-0.282
237	0.48	-0.107
10	0.48	0.000
49	0.48	0.000
92	0.48	0.000
Median	0.48	0.000
13	0.48	0.282
51	0.48	0.282
78	0.48	0.282
83	0.48	0.282
9	0.47	0.564
9	0.47	0.564
24	0.47	0.564
78	0.47	0.564
92	0.47	0.564
16	0.47	0.725
16	0.46	0.880
Std Dev	0.46	1.000
35	0.46	1.128
22	0.46	1.411
35	0.46	1.411
81	0.45	1.693
85	0.43	2.821
85	0.43	3.103

503 Other(describe)

Lab	%	MgO
22	0.55	-4.913
Std Dev	0.46	-1.000
77	0.45	-0.670
77	0.44	0.000
Median	0.44	0.000
56	0.42	0.670
Std Dev	0.41	1.000
19	0.41	1.117

601 Insoluble-AFPC IX.4.A

Lab	%	AI
55	8.45	-3.664
45	8.38	-3.309
21	8.38	-3.309
49	8.11	-1.832
Std Dev	7.96	-1.000
16	7.95	-0.957
9	7.93	-0.848
10	7.84	-0.356
9	7.83	-0.273
24	7.83	-0.273
13	7.82	-0.246
16	7.80	-0.131
10	7.78	0.000
Median	7.78	0.000
24	7.73	0.246
13	7.73	0.273
22	7.69	0.465
51	7.66	0.629
15	7.64	0.738
15	7.64	0.738
45	7.60	0.957
Std Dev	7.59	1.000
51	7.57	1.149
22	7.49	1.559
26	7.44	1.832
26	7.39	2.106

602 Other(describe)

Lab	%	AI
21	8.19	-1.216
Std Dev	8.14	-1.000
19	8.03	-0.557
Median	7.90	0.000
35	7.76	0.557
35	7.70	0.804

651 Gasometric-AFPC IX.13.B

Lab	%	CO2
87	5.11	-4.379
87	4.93	-3.754
77	4.39	-1.928
16	4.17	-1.184
Std Dev	4.11	-1.000
16	4.07	-0.862
21	4.05	-0.795
21	4.05	-0.795
30	3.92	-0.355
13	3.87	-0.186
Median	3.82	0.000
24	3.76	0.186
49	3.76	0.203
9	3.70	0.406
9	3.70	0.406
88	3.66	0.524
88	3.63	0.626
13	3.55	0.913
Std Dev	3.52	1.000
15	3.41	1.370
15	3.41	1.370

652 Other(describe)

Lab	%	CO2
35	7.57	-12.184
35	7.55	-12.081
78	5.92	-5.381
Std Dev	4.86	-1.000
51	4.83	-0.866
84	4.76	-0.577
85	4.76	-0.577
85	4.73	-0.474
84	4.68	-0.268
83	4.67	-0.227
51	4.66	-0.186
89	4.62	0.000
Median	4.62	0.000
83	4.58	0.144
86	4.58	0.144
89	4.58	0.144
86	4.50	0.495
55	4.43	0.763
Std Dev	4.37	1.000
81	4.25	1.505
56	4.06	2.288
82	4.04	2.371
22	3.64	4.020
237	3.26	5.607

701 Gravimetric sulfate-AFPC IX.12.A

Lab	%	CaO
22	45.59	0.000
Median	45.59	0.000

702 ICP-inducted coupled plasma-AFPC IX.12.D

Lab	%	CaO
35	48.12	-5.397
35	47.23	-3.221
45	46.87	-2.336
16	46.82	-2.213
45	46.63	-1.746
Std Dev	46.33	-1.000
16	46.21	-0.713
270	46.14	-0.529
78	46.10	-0.443
21	46.09	-0.418
21	46.01	-0.221
49	45.98	-0.135
Median	45.92	0.000
92	45.87	0.135
92	45.75	0.418
51	45.74	0.455
9	45.72	0.504
9	45.68	0.590
10	45.64	0.701
51	45.62	0.750
10	45.57	0.861
Std Dev	45.51	1.000
13	45.41	1.254
13	45.18	1.832
78	45.13	1.955

703 Ceric Sulfate volumetric-AFPC IX.12.B

Lab	%	CaO
Median	0.00	0.000

704 Permanganate

Lab	%	CaO
55	45.60	-1.340

Std Dev	45.60	-1.000
Median	45.60	0.000
Std Dev	45.59	1.000
30	45.59	1.340

705	EDTA Volumetric-AFPC IX.12.C	
Lab	%	CaO
Median	0.00	0.000

706	Other(describe)	
Lab	%	CaO
56	46.77	-1.669
84	46.55	-1.316
86	46.54	-1.300
Std Dev	46.35	-1.000
84	46.29	-0.899
86	46.26	-0.851
77	46.10	-0.594
83	46.00	-0.433
81	45.89	-0.257
83	45.80	-0.112
15	45.73	0.000
15	45.73	0.000
Median	45.73	0.000
77	45.60	0.209
19	45.43	0.481
22	45.40	0.530
24	45.29	0.706
85	45.28	0.722
85	45.28	0.722
82	45.24	0.786
Std Dev	45.11	1.000
24	45.09	1.035

711	Gravimetric sulfate-AFPC IX.12.A		
Lab	%	CaO	dB
22	45.94		0.000
Median	45.94		0.000

712	ICP-inducted coupled plasma-AFPC IX.12.D		
Lab	%	CaO	dB
35	48.27		-4.473
35	47.38		-2.468
16	47.29		-2.263

Std Dev	46.73	-1.000
16	46.67	-0.867
21	46.57	-0.635
21	46.48	-0.448
270	46.29	-0.011
Median	46.29	0.000
49	46.28	0.011
9	46.11	0.403
9	46.10	0.422
10	46.03	0.568
10	45.96	0.726
13	45.85	0.969
Std Dev	45.84	1.000
13	45.62	1.498

713	Ceric Sulfate volumetric-AFPC IX.12.B		
Lab	%	CaO	dB
Median	0.00		0.000

714	Permanganate		
Lab	%	CaO	dB
55	46.01		-1.340
Std Dev	46.01		-1.000
Median	45.99		0.000
Std Dev	45.98		1.000
30	45.98		1.340

715	EDTA Volumetric-AFPC IX.12.C		
Lab	%	CaO	dB
Median	0.00		0.000

716	Other(describe)		
Lab	%	CaO	dB
84	47.03		-1.449
86	47.00		-1.400
Std Dev	46.76		-1.000
84	46.76		-1.000
86	46.73		-0.949
83	46.47		-0.512
77	46.40		-0.396
83	46.27		-0.191
15	46.16		0.000
15	46.16		0.000
Median	46.16		0.000

81	46.12	0.072
77	45.95	0.342
24	45.73	0.716
85	45.72	0.725
85	45.72	0.729
82	45.63	0.885
Std Dev	45.56	1.000
24	45.52	1.061

801	Volumetric-AFPC IX.14.A	
Lab	%	Fluorine, F
Median	0.00	0.000

802	Specific Ion Electrode-AFPC IX.14.B	
Lab	%	Fluorine, F
13	3.75	-1.298
Std Dev	3.71	-1.000
51	3.70	-0.879
86	3.68	-0.712
24	3.67	-0.670
51	3.67	-0.628
21	3.65	-0.503
15	3.62	-0.251
15	3.62	-0.251
35	3.61	-0.168
49	3.61	-0.168
21	3.60	-0.084
26	3.60	-0.084
35	3.60	-0.084
24	3.60	-0.042
86	3.59	0.000
Median	3.59	0.000
26	3.58	0.084
9	3.58	0.126
22	3.55	0.377
9	3.53	0.502
13	3.51	0.670
Std Dev	3.47	1.000
22	3.46	1.089
81	3.46	1.089
270	3.40	1.591
16	3.40	1.633
237	3.36	1.968
16	3.21	3.224

82	3.08	4.271
237	3.07	4.397
55	2.72	7.286

803	Oher(describe)	
Lab	%	Fluorine, F
77	3.58	-0.383
77	3.57	0.000
Median	3.57	0.000
Std Dev	3.56	1.000
19	3.54	2.297

911	Atomic Absorption-AFPC	
Lab	ppm	Arsenic, As
85	12.7	-1.340
Std Dev	12.7	-1.000
Median	12.7	0.000
Std Dev	12.7	1.000
85	12.7	1.340

912	ICP-inducted coupled plasma-AFPC IX.15.B	
Lab	ppm	Arsenic, As
270	19.5	-1.369
78	19.3	-1.308
22	19.2	-1.263
Std Dev	18.3	-1.000
24	17.0	-0.617
22	16.9	-0.600
24	16.4	-0.436
16	15.4	-0.120
81	15.3	-0.105
35	15.0	-0.015
35	15.0	-0.015
16	15.0	0.000
Median	15.0	0.000
51	14.0	0.286
82	13.8	0.346
86	12.1	0.872
51	12.0	0.887
86	11.9	0.904
78	11.9	0.917
84	11.8	0.963
Std Dev	11.6	1.000
84	10.8	1.263

83	10.6	1.308
83	10.5	1.338

913	Other(describe)	
Lab	ppm	Arsenic, As
13	15.0	0.000
Median	15.0	0.000

921	Atomic Absorption-AFPC IX.11.A	
Lab	ppm	Cadmium, Cd
55	4	-1.105
89	4	-1.105
89	4	-1.105
Std Dev	4	-1.000
86	4	-0.131
Median	4	0.000
88	3	0.131
88	3	0.166
87	3	0.440
Std Dev	3	1.000
87	3	1.272

922	ICP-inducted coupled plasma-AFPC IX.11.B	
Lab	ppm	Cadmium, Cd
270	28	-32.026
78	5	-1.843
Std Dev	4	-1.000
78	4	-0.911
45	4	-0.536
45	4	-0.536
51	4	-0.536
83	4	-0.536
83	4	-0.536
16	4	-0.235
85	4	-0.201
85	4	-0.201
82	4	-0.067
16	4	-0.047
84	4	0.000
84	4	0.000
Median	4	0.000
35	4	0.134
86	3	0.147
22	3	0.281
24	3	0.402
35	3	0.804
51	3	0.804
77	3	0.804
275	3	0.823
22	3	0.824
Std Dev	3	1.000
24	2	1.809
237	2	1.882
237	2	1.891
77	2	2.144
81	2	2.781

923	Other(describe)	
Lab	ppm	Cadmium, Cd
13	3	0.000
Median	3	0.000

931	Atomic Absorption-AFPC IX.16.B	
Lab	ppm	Cobalt, Co
55	10	-1.340
Std Dev	9	-1.000
Median	7	0.000
Std Dev	5	1.000
82	4	1.340

932	ICP-inducted coupled plasma-AFPC IX.16.A	
Lab	ppm	Cobalt, Co
78	8	-2.442
78	7	-1.646
16	6	-1.142
16	6	-1.134
270	5	-1.009
Std Dev	5	-1.000
45	5	-0.850
45	5	-0.850
22	5	-0.704
22	4	-0.510
24	4	-0.187
35	4	-0.054
Median	3	0.000
237	3	0.054
275	3	0.089
237	3	0.099
35	3	0.211
77	3	0.211
24	2	0.583
77	2	0.742
Std Dev	2	1.000
84	1	1.437
83	1	1.536
83	0	1.549
84	0	1.549

933	Other(describe)	
Lab	ppm	Cobalt, Co
13	5	0.000
Median	5	0.000

941	Atomic Absorption-AFPC IX.16.B	
Lab	ppm	Mercury, Hg
82	0.2	-1.340
Std Dev	0.2	-1.000
Median	0.2	0.000
Std Dev	0.1	1.000
81	0.1	1.340

942	ICP-inducted coupled plasma-AFPC IX.16.A	
Lab	ppm	Mercury, Hg
24	61.0	-272.277
35	0.3	-1.150
35	0.3	-1.150
Std Dev	0.3	-1.000
270	0.1	-0.190
Median	0.0	0.000
16	0.0	0.190
16	0.0	0.190
22	0.0	0.190
22	0.0	0.190

943	Other(describe)	
Lab	ppm	Mercury, Hg
13	0.0	0.000
Median	0.0	0.000

951	Atomic Absorption-AFPC IX.16.B	
Lab	ppm	Molybdenum, Mo
55	9	0.000
Median	9	0.000

952	ICP-inducted coupled plasma-AFPC IX.16.A	
Lab	ppm	!olybdenum, Mo
237	17	-2.278
77	14	-1.047
16	14	-1.026
Std Dev	14	-1.000
45	14	-0.842
270	13	-0.760
16	13	-0.657
45	13	-0.636
82	13	-0.431
78	12	-0.328
85	12	-0.082
24	12	-0.062
Median	11	0.000
85	11	0.062
24	11	0.144
77	11	0.185
22	11	0.228
22	10	0.413
78	10	0.780
275	9	0.821
Std Dev	9	1.000
83	4	3.059
83	4	3.141
84	4	3.182
84	4	3.202

953	Other(describe)	
Lab	ppm	!olybdenum, Mo
13	15	0.000
Median	15	0.000

961	Atomic Absorption-AFPC IX.16.B	
Lab	ppm	Nickel, Ni
77	15	-1.340
Std Dev	15	-1.000
Median	14	0.000
Std Dev	14	1.000
55	14	1.340

962 ICP-inducted coupled plasma-AFPC IX.16.A

Lab	ppm	Nickel, Ni
78	25	-0.838
81	24	-0.763
24	24	-0.742
83	24	-0.718
84	24	-0.695
85	24	-0.695
84	24	-0.659
85	24	-0.623
16	23	-0.587
16	23	-0.527
83	23	-0.479
82	22	-0.192
24	21	0.000
270	21	0.000
Median	21	0.000
35	21	0.120
78	21	0.120
86	20	0.194
86	20	0.346
35	19	0.479
275	19	0.560
77	18	0.838
22	17	0.911
45	17	0.958
22	17	0.980
Std Dev	17	1.000
45	17	1.078
237	14	1.695
237	13	1.848

963 Other(describe)

Lab	ppm	Nickel, Ni
19	35	-1.340
Std Dev	33	-1.000
Median	27	0.000
Std Dev	22	1.000
13	20	1.340

971 Atomic Absorption-AFPC IX.16.B

Lab	ppm	Lead, Pb
55	11	0.000
Median	11	0.000

972 ICP-inducted coupled plasma-AFPC IX.16.A

Lab	ppm	Lead, Pb
22	22	-2.528
22	16	-1.294
16	16	-1.163
Std Dev	15	-1.000
270	15	-0.958
16	14	-0.833
51	14	-0.787
78	14	-0.673
35	13	-0.559
51	13	-0.559
35	13	-0.445
82	11	-0.137
Median	11	0.000
275	10	0.137
84	9	0.354
84	9	0.468
77	8	0.582
77	8	0.582
83	8	0.582
83	8	0.582
81	8	0.696
78	7	0.764
24	6	0.992
Std Dev	6	1.000
24	5	1.232

973 Other(describe)

Lab	ppm	Lead, Pb
13	14	0.000
Median	14	0.000

981 Atomic Absorption-AFPC IX.16.B

Lab	ppm	Selenium, Se
Median	0	0.000

982 ICP-inducted coupled plasma-AFPC IX.16.A

Lab	ppm	Selenium, Se
275	11	-7.878
22	2	-1.785
16	2	-1.340
Std Dev	1	-1.000
16	1	-0.987
22	0	0.000
83	0	0.000
83	0	0.000
84	0	0.000
84	0	0.000
Median	0	0.000

983 Other(describe)

Lab	ppm	Selenium, Se
13	3	0.000
Median	3	0.000

991 Atomic Absorption-AFPC IX.16.B

Lab	ppm	Zinc, Zn
55	47	0.000
Median	47	0.000

992 ICP-inducted coupled plasma-AFPC IX.16.A

Lab	ppm	Zinc, Zn
24	78	-4.044
24	75	-3.712
78	60	-1.213
Std Dev	59	-1.000
85	59	-0.971
85	58	-0.841
86	57	-0.658
86	56	-0.517
84	55	-0.412
22	55	-0.329
84	54	-0.178
83	54	-0.162
83	53	-0.129
77	53	-0.081
Median	53	0.000
78	52	0.081
22	52	0.125
45	51	0.243
45	50	0.404
35	49	0.647
77	48	0.728
35	47	0.890
Std Dev	46	1.000
270	46	1.132
16	45	1.246
16	44	1.407
275	40	2.053
237	32	3.282
237	28	3.929

993 Other(describe)

Lab	ppm	Zinc, Zn
19	61	-1.340
Std Dev	58	-1.000
Median	48	0.000
Std Dev	39	1.000
13	36	1.340