

# AFPC Rock Check Program

Sample No. 2017-11

	Method #	# of Anal.	Grand Median	Std Dev
<b>Moisture</b>				
Ground Sample AFPC IX.2.A	101	27	0.65	0.110
Other (describe)	102	1	0.58	
<b>Method Group 100</b>		<b>28</b>	<b>0.65</b>	<b>0.12</b>
<b>P<sub>2</sub>O<sub>5</sub></b>				
Gravimetric AFPC IX.3.B	201	4	27.88	0.150
ICP-induced coupled plasma AFPC IX.3.D	202	2	27.87	0.030
Photometric-AFPC IX.3.C	203	15	28.06	0.192
Automated -AOAC 978.01-15th	204	11	27.97	0.229
Other(describe)	205	4	28.15	0.201
<b>Method Group 200</b>		<b>36</b>	<b>28.00</b>	<b>0.21</b>
<b>P<sub>2</sub>O<sub>5</sub> (on Dry Basis)</b>				
Gravimetric AFPC IX.3.B	211	2	28.03	0.050
ICP-induced coupled plasma AFPC IX.3.D	212	2	28.07	0.026
Photometric-AFPC IX.3.C	213	9	28.21	0.234
Automated -AOAC 978.01-15th	214	11	28.12	0.272
Other(describe)	215	2	28.42	0.046
<b>Method Group 210</b>		<b>26</b>	<b>28.16</b>	<b>0.23</b>
<b>Fe<sub>2</sub>O<sub>3</sub></b>				
Atomic Absorption-AFPC IX.6.B	301	2	0.50	0.011
ICP-induced coupled plasma-AFPC IX.6.C	302	27	0.55	0.066
Other(describe)	303	7	0.58	0.036
<b>Method Group 300</b>		<b>36</b>	<b>0.57</b>	<b>0.07</b>
<b>Al<sub>2</sub>O<sub>3</sub></b>				
Atomic Absorption-AFPC IX.7.B	401	2	0.72	0.078
ICP-induced coupled plasma-AFPC IX.7.C	402	27	0.85	0.142
Other(describe)	403	7	1.55	0.351
<b>Method Group 400</b>		<b>36</b>	<b>0.88</b>	<b>0.37</b>
<b>MgO</b>				
Atomic Absorption-AFPC IX.8.A	501	2	0.37	0.019
ICP-induced coupled plasma-AFPC IX.8.B	502	27	0.41	0.030
Other(describe)	503	7	0.40	0.013
<b>Method Group 500</b>		<b>36</b>	<b>0.40</b>	<b>0.03</b>
<b>Acid Insoluble</b>				
Insoluble-AFPC IX.4.A	601	21	12.88	0.299
Other(describe)	602	3	11.11	0.817
<b>Method Group 600</b>		<b>24</b>	<b>12.86</b>	<b>0.35</b>
<b>Carbon Dioxide</b>				
Gasometric-AFPC IX.13.B	651	13	3.72	0.601
Other(describe)	652	11	4.12	0.470
<b>Method Group 650</b>		<b>24</b>	<b>3.98</b>	<b>0.40</b>
<b>CaO</b>				
Gravimetric sulfate-AFPC IX.12.A	701			
ICP-induced coupled plasma-AFPC IX.12.D	702	21	42.34	0.563
Ceric Sulfate volumetric-AFPC IX.12.B	703			
Permanganate	704	1	42.50	0.000
EDTA Volumetric-AFPC IX.12.C	705			
Other(describe)	706	12	42.28	1.049
<b>Method Group 700</b>		<b>34</b>	<b>42.37</b>	<b>0.76</b>
<b>CaO (on Dry Basis)</b>				
Gravimetric sulfate-AFPC IX.12.A	711			
ICP-induced coupled plasma-AFPC IX.12.D	712	15	42.69	0.271
Ceric Sulfate volumetric-AFPC IX.12.B	713			
Permanganate	714	1	42.72	0.000
EDTA Volumetric-AFPC IX.12.C	715			
Other(describe)	716	9	42.14	0.876
<b>Method Group 710</b>		<b>24</b>	<b>42.65</b>	<b>0.65</b>

	Method #	# of Anal.	Grand Median	Std Dev
<b>Fluorine, F</b>				
Volumetric-AFPC IX.14.A	801			
Specific Ion Electrode-AFPC IX.14.B	802	20	2.89	0.065
Other (describe)	803	6	2.82	0.057
<b>Method Group 800</b>		<b>26</b>	<b>2.87</b>	<b>0.07</b>
<b>Arsenic, As</b>				
Atomic Absorption	911	1	11.5	0.00
ICP-induced coupled plasma-AFPC IX.15.B	912	9	10.3	2.57
Other(describe)	913	4	9.2	0.60
<b>Method Group 900</b>		<b>14</b>	<b>10.2</b>	<b>2.13</b>
<b>Cadmium, Cd</b>				
Atomic Absorption-AFPC IX.11.A	921	1	83	0.0
ICP-induced coupled plasma-AFPC IX.11.B	922	15	83	8.3
Other(describe)	923	3	79	1.6
<b>Method Group 910</b>		<b>19</b>	<b>83</b>	<b>6.9</b>
<b>Cobalt, Co</b>				
Atomic Absorption-AFPC IX.16.B	931	1	1	0.0
ICP-induced coupled plasma-AFPC IX.16.A	932	10	1	1.3
Other(describe)	933	3	1	0.3
<b>Method Group 920</b>		<b>14</b>	<b>1</b>	<b>1.3</b>
<b>Mercury, Hg</b>				
Atomic Absorption-AFPC IX.16.B	941			
ICP-induced coupled plasma-AFPC IX.16.A	942	4	0.2	0.24
Other(describe)	943	3	304.0	113.89
<b>Method Group 930</b>		<b>7</b>	<b>0.3</b>	<b>113.46</b>
<b>Molybdenum, Mo</b>				
Atomic Absorption-AFPC IX.16.B	951	1	13	0.0
ICP-induced coupled plasma-AFPC IX.16.A	952	10	15	2.0
Other(describe)	953	1	14	0.0
<b>Method Group 940</b>		<b>12</b>	<b>15</b>	<b>1.3</b>
<b>Nickel, Ni</b>				
Atomic Absorption-AFPC IX.16.B	961	1	98	0.0
ICP-induced coupled plasma-AFPC IX.16.A	962	10	97	8.8
Other(describe)	963	5	108	3.0
<b>Method Group 950</b>		<b>16</b>	<b>99</b>	<b>10.5</b>
<b>Lead, Pb</b>				
Atomic Absorption-AFPC IX.16.B	971	1	7	0.0
ICP-induced coupled plasma-AFPC IX.16.A	972	12	7	2.1
Other(describe)	973	3	11	2.2
<b>Method Group 960</b>		<b>16</b>	<b>7</b>	<b>2.8</b>
<b>Selenium, Se</b>				
Atomic Absorption-AFPC IX.16.B	981			
ICP-induced coupled plasma-AFPC IX.16.A	982	2	17	12.7
Other(describe)	983	1	16	0.0
<b>Method Group 970</b>		<b>3</b>	<b>16</b>	<b>12.7</b>
<b>Zinc, Zn</b>				
Atomic Absorption-AFPC IX.16.B	991	1	920	0
ICP-induced coupled plasma-AFPC IX.16.A	992	11	909	104
Other(describe)	993	5	870	40
<b>Method Group 980</b>		<b>17</b>	<b>896</b>	<b>37</b>

101 Ground Sample AFPC IX.2.A			
Lab	%	H <sub>2</sub> O	
55	0.90	-2.317	
15	0.78	-1.181	
52	0.76	-1.045	
<b>Std Dev</b>	<b>0.76</b>	<b>-1.000</b>	
15	0.75	-0.908	
49	0.75	-0.908	
49	0.75	-0.908	
13	0.74	-0.818	
10	0.73	-0.772	
13	0.71	-0.591	
10	0.69	-0.409	
9	0.67	-0.227	
26	0.67	-0.182	
9	0.65	-0.045	
21	0.65	0.000	
24	0.65	0.000	
24	0.65	0.000	
<b>Median</b>	<b>0.65</b>	<b>0.000</b>	
75	0.64	0.045	
61	0.64	0.091	
61	0.63	0.136	
75	0.61	0.363	
20	0.57	0.727	
275	0.56	0.772	
21	0.55	0.863	
275	0.54	0.954	
<b>Std Dev</b>	<b>0.53</b>	<b>1.000</b>	
30	0.52	1.136	
77	0.15	4.497	
77	0.14	4.588	

102 Other (describe)			
Lab	%	H <sub>2</sub> O	
20	0.58	0.000	
<b>Median</b>	<b>0.58</b>	<b>0.000</b>	

201 Gravimetric AFPC IX.3.B			
Lab	%	P2O5	
65	28.11	-1.531	
<b>Std Dev</b>	<b>28.03</b>	<b>-1.000</b>	
77	27.92	-0.266	
<b>Median</b>	<b>27.88</b>	<b>0.000</b>	

55	27.84	0.266	
<b>Std Dev</b>	<b>27.73</b>	<b>1.000</b>	
56	27.55	2.231	

202 ICP-induced coupled plasma AFPC IX.3.D			
Lab	%	P2O5	
10	27.91	-1.340	
<b>Std Dev</b>	<b>27.90</b>	<b>-1.000</b>	
<b>Median</b>	<b>27.87</b>	<b>0.000</b>	
<b>Std Dev</b>	<b>27.84</b>	<b>1.000</b>	
10	27.83	1.340	

203 Photometric-AFPC IX.3.C			
Lab	%	P2O5	
49	29.49	-7.416	
49	29.48	-7.390	
51	28.26	-1.041	
52	28.26	-1.041	
<b>Std Dev</b>	<b>28.25</b>	<b>-1.000</b>	
51	28.20	-0.729	
78	28.07	-0.052	
9	28.07	-0.026	
30	28.06	0.000	
<b>Median</b>	<b>28.06</b>	<b>0.000</b>	
92	28.01	0.260	
61	27.99	0.390	
26	27.98	0.442	
92	27.97	0.468	
9	27.96	0.546	
<b>Std Dev</b>	<b>27.87</b>	<b>1.000</b>	
61	27.86	1.067	
78	27.70	1.899	

204 Automated -AOAC 978.01-15th			
Lab	%	P2O5	
15	28.64	-2.920	
15	28.47	-2.179	
<b>Std Dev</b>	<b>28.20</b>	<b>-1.000</b>	
13	28.08	-0.458	
13	28.06	-0.392	
21	28.05	-0.327	
21	27.97	0.000	
<b>Median</b>	<b>27.97</b>	<b>0.000</b>	
75	27.87	0.458	

77	27.79	0.784	
<b>Std Dev</b>	<b>27.74</b>	<b>1.000</b>	
24	27.73	1.046	
75	27.73	1.068	
24	27.60	1.612	

205 Other(describe)			
Lab	%	P2O5	
20	28.32	-0.860	
20	28.20	-0.237	
<b>Median</b>	<b>28.15</b>	<b>0.000</b>	
19	28.10	0.237	
<b>Std Dev</b>	<b>27.95</b>	<b>1.000</b>	
56	27.53	3.079	

211 Gravimetric AFPC IX.3.B			
Lab	%	P2O5	dB
55	28.09	-1.340	
<b>Std Dev</b>	<b>28.08</b>	<b>-1.000</b>	
<b>Median</b>	<b>28.03</b>	<b>0.000</b>	
<b>Std Dev</b>	<b>27.98</b>	<b>1.000</b>	
77	27.96	1.340	

212 ICP-induced coupled plasma AFPC IX.3.D			
Lab	%	P2O5	dB
10	28.10	-1.340	
<b>Std Dev</b>	<b>28.10</b>	<b>-1.000</b>	
<b>Median</b>	<b>28.07</b>	<b>0.000</b>	
<b>Std Dev</b>	<b>28.04</b>	<b>1.000</b>	
10	28.03	1.340	

213 Photometric-AFPC IX.3.C			
Lab	%	P2O5	dB
49	29.71	-6.397	
49	29.70	-6.375	
52	28.48	-1.151	
<b>Std Dev</b>	<b>28.44</b>	<b>-1.000</b>	
9	28.25	-0.203	
30	28.21	0.000	
<b>Median</b>	<b>28.21</b>	<b>0.000</b>	
61	28.16	0.183	
26	28.16	0.189	
9	28.14	0.293	
61	28.03	0.747	

214 Automated -AOAC 978.01-15th			
Lab	%	P2O5	dB
15	28.86	-2.713	
15	28.68	-2.052	
<b>Std Dev</b>	<b>28.40</b>	<b>-1.000</b>	
13	28.28	-0.581	
13	28.26	-0.499	
21	28.23	-0.376	
21	28.12	0.000	
<b>Median</b>	<b>28.12</b>	<b>0.000</b>	
75	28.03	0.331	
24	27.91	0.788	
75	27.90	0.812	
<b>Std Dev</b>	<b>27.85</b>	<b>1.000</b>	
77	27.83	1.076	
24	27.78	1.269	

215 Other(describe)			
Lab	%	P2O5	dB
20	28.48	-1.340	
<b>Std Dev</b>	<b>28.47</b>	<b>-1.000</b>	
<b>Median</b>	<b>28.42</b>	<b>0.000</b>	
<b>Std Dev</b>	<b>28.37</b>	<b>1.000</b>	
20	28.36	1.340	

301 Atomic Absorption-AFPC IX.6.B			
Lab	%	Fe2O3	
55	0.51	-1.340	
<b>Std Dev</b>	<b>0.51</b>	<b>-1.000</b>	
<b>Median</b>	<b>0.50</b>	<b>0.000</b>	
<b>Std Dev</b>	<b>0.48</b>	<b>1.000</b>	
30	0.48	1.340	

302 ICP-induced coupled plasma-AFPC IX.6.C			
Lab	%	Fe2O3	
49	1.01	-6.942	
49	1.01	-6.867	
61	0.72	-2.566	
78	0.72	-2.566	
61	0.70	-2.264	
51	0.63	-1.207	
78	0.63	-1.162	
15	0.62	-1.056	

Std Dev	0.62	-1.000
15	0.61	-0.906
51	0.61	-0.906
92	0.60	-0.755
92	0.59	-0.604
24	0.56	-0.075
24	0.55	0.000
275	0.55	0.000
<b>Median</b>	<b>0.55</b>	<b>0.000</b>
21	0.55	0.075
9	0.54	0.151
10	0.54	0.151
275	0.54	0.151
9	0.54	0.226
75	0.53	0.235
10	0.53	0.302
13	0.53	0.302
13	0.53	0.302
21	0.53	0.302
52	0.51	0.604
75	0.51	0.679

303 Other(describe)		
Lab	%	Fe2O3
77	0.65	-1.934
77	0.65	-1.934
<b>Std Dev</b>	<b>0.62</b>	<b>-1.000</b>
65	0.61	-0.746
20	0.58	0.000
20	0.58	0.000
56	0.58	0.000
<b>Median</b>	<b>0.58</b>	<b>0.000</b>
<b>Std Dev</b>	<b>0.54</b>	<b>1.000</b>
19	0.53	1.381

401 Atomic Absorption-AFPC IX.6.B		
Lab	%	Al2O3
30	0.82	-1.340
<b>Std Dev</b>	<b>0.79</b>	<b>-1.000</b>
<b>Median</b>	<b>0.72</b>	<b>0.000</b>
<b>Std Dev</b>	<b>0.64</b>	<b>1.000</b>
55	0.61	1.340

402 ICP-induced coupled plasma-AFPC IX.6.C		
Lab	%	Al2O3
78	1.83	-6.873
78	1.77	-6.485
52	1.70	-5.991
49	1.30	-3.135
49	1.29	-3.099
61	1.01	-1.125
<b>Std Dev</b>	<b>0.99</b>	<b>-1.000</b>
61	0.98	-0.878
21	0.94	-0.596
21	0.92	-0.490
9	0.90	-0.314
9	0.88	-0.173
15	0.88	-0.173
15	0.87	-0.137
75	0.85	0.000
<b>Median</b>	<b>0.85</b>	<b>0.000</b>
92	0.84	0.074
24	0.82	0.251
92	0.81	0.286
24	0.81	0.321
10	0.80	0.356
51	0.77	0.568
10	0.76	0.638
51	0.74	0.779
<b>Std Dev</b>	<b>0.71</b>	<b>1.000</b>
75	0.70	1.068
13	0.68	1.238
13	0.66	1.344
275	0.49	2.514
275	0.47	2.684

403 Other(describe)		
Lab	%	Al2O3
65	1.76	-0.599
77	1.69	-0.399
77	1.68	-0.371
56	1.55	0.000
<b>Median</b>	<b>1.55</b>	<b>0.000</b>
19	1.34	0.599
<b>Std Dev</b>	<b>1.20</b>	<b>1.000</b>
20	1.09	1.311
20	1.08	1.354

501 Atomic Absorption-AFPC IX.8.A		
Lab	%	MgO
30	0.39	-1.340
<b>Std Dev</b>	<b>0.38</b>	<b>-1.000</b>
<b>Median</b>	<b>0.37</b>	<b>0.000</b>
<b>Std Dev</b>	<b>0.35</b>	<b>1.000</b>
55	0.34	1.340

502 ICP-induced coupled plasma-AFPC IX.8.B		
Lab	%	MgO
61	0.47	-2.178
61	0.45	-1.508
92	0.45	-1.508
275	0.45	-1.508
275	0.44	-1.173
78	0.44	-1.005
<b>Std Dev</b>	<b>0.43</b>	<b>-1.000</b>
78	0.43	-0.837
92	0.43	-0.837
21	0.43	-0.670
21	0.43	-0.670
49	0.42	-0.502
9	0.41	-0.168
49	0.41	-0.168
15	0.41	0.000
<b>Median</b>	<b>0.41</b>	<b>0.000</b>
9	0.40	0.168
15	0.40	0.168
75	0.39	0.384
10	0.39	0.503
10	0.39	0.503
13	0.39	0.503
13	0.39	0.503
51	0.39	0.503
24	0.38	0.838
24	0.38	0.838
<b>Std Dev</b>	<b>0.38</b>	<b>1.000</b>
51	0.37	1.173
52	0.37	1.173
75	0.36	1.570

503 Other(describe)		
Lab	%	MgO
65	0.42	-1.761
77	0.42	-1.531
<b>Std Dev</b>	<b>0.41</b>	<b>-1.000</b>
56	0.41	-0.766
20	0.40	0.000
77	0.40	0.000
<b>Median</b>	<b>0.40</b>	<b>0.000</b>
20	0.40	0.383
<b>Std Dev</b>	<b>0.39</b>	<b>1.000</b>
19	0.35	3.829

601 Insoluble-AFPC IX.4.A		
Lab	%	Al
26	13.43	-1.826
15	13.39	-1.692
15	13.34	-1.541
55	13.30	-1.407
<b>Std Dev</b>	<b>13.18</b>	<b>-1.000</b>
51	13.10	-0.737
9	13.06	-0.586
51	13.04	-0.536
30	12.93	-0.168
13	12.93	-0.151
24	12.91	-0.084
49	12.88	0.000
<b>Median</b>	<b>12.88</b>	<b>0.000</b>
9	12.84	0.134
13	12.84	0.134
21	12.82	0.218
49	12.77	0.385
24	12.66	0.754
21	12.62	0.871
<b>Std Dev</b>	<b>12.58</b>	<b>1.000</b>
10	12.55	1.106
275	12.50	1.273
275	12.48	1.340
10	12.27	2.044

602 Other(describe)		
Lab	%	Al
19	13.29	-2.668
<b>Std Dev</b>	<b>11.93</b>	<b>-1.000</b>
20	11.11	0.000
<b>Median</b>	<b>11.11</b>	<b>0.000</b>

20 11.10 0.012

651 Gasometric-AFPC IX.13.B		
Lab	%	CO2

61	4.59	-1.448
<b>Std Dev</b>	<b>4.32</b>	<b>-1.000</b>
24	4.28	-0.932
24	4.19	-0.774
77	4.10	-0.633
30	4.02	-0.499
9	3.72	0.000
9	3.72	0.000
<b>Median</b>	<b>3.72</b>	<b>0.000</b>
13	3.69	0.058
13	3.56	0.275
49	3.30	0.707
<b>Std Dev</b>	<b>3.12</b>	<b>1.000</b>
15	3.04	1.140
15	2.99	1.223
49	2.91	1.348

652 Other(describe)		
Lab	%	CO2

78	15.19	-23.546
78	15.06	-23.269
<b>Std Dev</b>	<b>4.59</b>	<b>-1.000</b>
51	4.55	-0.915
51	4.49	-0.787
56	4.23	-0.234
65	4.12	0.000
<b>Median</b>	<b>4.12</b>	<b>0.000</b>
55	4.10	0.043
20	3.94	0.393
20	3.85	0.585
21	3.83	0.617
21	3.83	0.617

701 Gravimetric sulfate-AFPC IX.12.A		
Lab	%	CaO

<b>Median</b>	<b>0.00</b>	<b>0.000</b>
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702 ICP-induced coupled plasma-AFPC IX.12.D		
Lab	%	CaO

52	50.80	-15.024
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75	44.62	-4.052
49	43.31	-1.722
51	42.92	-1.038
<b>Std Dev</b>	<b>42.90</b>	<b>-1.000</b>
51	42.80	-0.825
9	42.72	-0.674
13	42.50	-0.284
49	42.49	-0.266
10	42.41	-0.133
21	42.41	-0.133
9	42.34	0.000
<b>Median</b>	<b>42.34</b>	<b>0.000</b>
61	42.31	0.053
10	42.25	0.151
13	42.22	0.213
75	42.13	0.371
92	41.96	0.666
61	41.90	0.772
92	41.79	0.967
<b>Std Dev</b>	<b>41.77</b>	<b>1.000</b>
21	41.13	2.139
78	40.75	2.822
78	35.65	11.865

703 Ceric Sulfate volumetric-AFPC IX.12.B		
Lab	%	CaO

<b>Median</b>	<b>0.00</b>	<b>0.000</b>
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704 Permanganate		
Lab	%	CaO

30	42.50	0.000
<b>Median</b>	<b>42.50</b>	<b>0.000</b>

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

<b>Median</b>	<b>0.00</b>	<b>0.000</b>
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706 Other(describe)		
Lab	%	CaO

15	43.36	-1.025
<b>Std Dev</b>	<b>43.33</b>	<b>-1.000</b>
15	43.28	-0.949
19	43.18	-0.858
77	43.10	-0.782

77	43.00	-0.687
56	42.45	-0.162
<b>Median</b>	<b>42.28</b>	<b>0.000</b>
65	42.11	0.162
24	41.87	0.396
24	41.72	0.534
55	41.70	0.553
20	41.40	0.844
20	41.30	0.935

711 Gravimetric sulfate-AFPC IX.12.A			
Lab	%	CaO	dB

<b>Median</b>	<b>0.00</b>	<b>0.000</b>	
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712 ICP-induced coupled plasma-AFPC IX.12.D			
Lab	%	CaO	dB

52	51.19	-31.338	
75	44.91	-8.182	
49	43.63	-3.482	
9	42.99	-1.139	
<b>Std Dev</b>	<b>42.96</b>	<b>-1.000</b>	
49	42.80	-0.437	
13	42.80	-0.418	
10	42.72	-0.135	
21	42.69	0.000	
<b>Median</b>	<b>42.69</b>	<b>0.000</b>	
9	42.62	0.239	
61	42.57	0.413	
10	42.54	0.522	
13	42.53	0.581	
<b>Std Dev</b>	<b>42.41</b>	<b>1.000</b>	
75	42.38	1.116	
61	42.17	1.907	
21	41.36	4.893	

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

<b>Median</b>	<b>0.00</b>	<b>0.000</b>	
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714 Permanganate			
Lab	%	CaO	dB

30	42.72	0.000	
<b>Median</b>	<b>42.72</b>	<b>0.000</b>	

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

<b>Median</b>	<b>0.00</b>	<b>0.000</b>	
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716 Other(describe)			
Lab	%	CaO	dB

15	43.69	-1.777	
15	43.60	-1.670	
77	43.16	-1.173	
77	43.06	-1.054	
<b>Std Dev</b>	<b>43.01</b>	<b>-1.000</b>	
24	42.14	0.000	
<b>Median</b>	<b>42.14</b>	<b>0.000</b>	
55	42.08	0.066	
24	41.99	0.167	
20	41.63	0.573	
20	41.53	0.687	

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

<b>Median</b>	<b>0.00</b>	<b>0.000</b>
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802 Specific Ion Electrode-AFPC IX.14.B		
Lab	%	Fluorine, F

49	3.38	-7.466
49	3.36	-7.159
15	3.02	-1.953
15	2.99	-1.570
<b>Std Dev</b>	<b>2.95</b>	<b>-1.000</b>
21	2.93	-0.651
24	2.93	-0.574
13	2.92	-0.498
55	2.92	-0.498
30	2.90	-0.191
13	2.89	-0.038
<b>Median</b>	<b>2.89</b>	<b>0.000</b>
9	2.89	0.038
21	2.88	0.191
24	2.87	0.268
9	2.85	0.651
51	2.84	0.727
26	2.84	0.804
75	2.83	0.881
<b>Std Dev</b>	<b>2.82</b>	<b>1.000</b>

75	2.76	2.029
52	2.75	2.106
51	2.74	2.259

803 Other( describe)		
Lab	%	Fluorine, F
20	2.89	-1.230
Std Dev	2.88	-1.000
20	2.87	-0.791
77	2.83	-0.176
Median	2.82	0.000
77	2.81	0.176
65	2.77	0.879
Std Dev	2.76	1.000
19	2.62	3.515

911 Atomic Absorption-AFPC		
Lab	ppm	Arsenic, As
55	11.5	0.000
Median	11.5	0.000

912 ICP-induced coupled plasma-AFPC IX.15.B		
Lab	ppm	Arsenic, As
61	17.4	-2.762
61	15.4	-1.996
Std Dev	12.9	-1.000
24	12.5	-0.835
24	11.9	-0.602
52	10.3	0.000
Median	10.3	0.000
51	10.0	0.117
51	9.0	0.505
Std Dev	7.7	1.000
78	4.6	2.233
78	4.4	2.292

913 Other( describe)		
Lab	ppm	Arsenic, As
13	11.9	-4.578
Std Dev	9.8	-1.000
77	9.2	-0.063
Median	9.2	0.000
20	9.1	0.063
20	8.9	0.406

921 Atomic Absorption-AFPC IX.11.A		
Lab	ppm	Cadmium, Cd
55	83	0.000
Median	83	0.000

922 ICP-induced coupled plasma-AFPC IX.11.B		
Lab	ppm	Cadmium, Cd
61	103	-2.531
78	103	-2.480
61	99	-1.992
78	91	-1.009
Std Dev	91	-1.000
75	88	-0.702
77	88	-0.666
77	85	-0.303
52	83	0.000
Median	83	0.000
275	82	0.105
275	81	0.143
24	80	0.321
75	77	0.648
24	77	0.666
Std Dev	74	1.000
51	74	1.029
51	73	1.150

923 Other( describe)		
Lab	ppm	Cadmium, Cd
13	83	-2.489
Std Dev	81	-1.000
20	79	0.000
Median	79	0.000
20	79	0.191

931 Atomic Absorption-AFPC IX.16.B		
Lab	ppm	Cobalt, Co
55	1	0.000
Median	1	0.000

932 ICP-induced coupled plasma-AFPC IX.16.A		
Lab	ppm	Cobalt, Co
78	2	-1.047
78	2	-1.047

Std Dev	2	-1.000
77	2	-0.896
77	2	-0.821
61	1	-0.209
Median	1	0.000
61	0	0.209
24	0	0.462
24	0	0.462
75	0	0.462
75	0	0.462

933 Other( describe)		
Lab	ppm	Cobalt, Co
13	2	-2.592
Std Dev	2	-1.000
20	1	0.000
Median	1	0.000
20	1	0.088

941 Atomic Absorption-AFPC IX.16.B		
Lab	ppm	Mercury, Hg
Median	0.0	0.000

942 ICP-induced coupled plasma-AFPC IX.16.A		
Lab	ppm	Mercury, Hg
275	0.3	-0.813
275	0.3	-0.650
Median	0.2	0.000
61	0.0	0.650
61	0.0	0.650

943 Other( describe)		
Lab	ppm	Mercury, Hg
24	305.5	-0.013
24	304.0	0.000
Median	304.0	0.000
Std Dev	190.1	1.000
13	0.3	2.667

951 Atomic Absorption-AFPC IX.16.B		
Lab	ppm	Molybdenum, Mo
55	13	0.000
Median	13	0.000

952 ICP-induced coupled plasma-AFPC IX.16.A		
Lab	ppm	Iolybdenum, Mo
61	19	-2.122
61	19	-1.974
78	17	-1.309
Std Dev	17	-1.000
24	15	-0.049
24	15	-0.049
Median	15	0.000
78	15	0.049
77	14	0.346
77	14	0.346
Std Dev	13	1.000
20	5	4.767
20	5	4.792

953 Other( describe)		
Lab	ppm	Iolybdenum, Mo
13	14	0.000
Median	14	0.000

961 Atomic Absorption-AFPC IX.16.B		
Lab	ppm	Nickel, Ni
55	98	0.000
Median	98	0.000

962 ICP-induced coupled plasma-AFPC IX.16.A		
Lab	ppm	Nickel, Ni
78	123	-2.950
Std Dev	105	-1.000
78	105	-0.959
24	101	-0.475
77	99	-0.276
77	98	-0.162
Median	97	0.000
24	95	0.162
52	93	0.407
Std Dev	88	1.000
75	87	1.084
75	80	1.886
61	0	10.990

963 Other( describe)		
Lab	ppm	Nickel, Ni

19	131	-7.873
Std Dev	110	-1.000
20	109	-0.335
20	108	0.000
Median	108	0.000
Std Dev	105	1.000
13	105	1.005
19	39	22.948

971 Atomic Absorption-AFPC IX.16.B		
Lab	ppm	Lead, Pb
55	7	0.000
Median	7	0.000

972 ICP-induced coupled plasma-AFPC IX.16.A		
Lab	ppm	Lead, Pb
61	14	-3.062
61	14	-3.029
51	10	-1.245
Std Dev	9	-1.000
77	9	-0.771
77	9	-0.771
51	8	-0.296
Median	7	0.000
275	7	0.296
275	7	0.296
78	7	0.391
24	6	0.628
24	6	0.700
Std Dev	5	1.000
78	4	1.577

973 Other(describe)		
Lab	ppm	Lead, Pb
20	11	-0.045
20	11	0.000
Median	11	0.000
Std Dev	8	1.000
13	5	2.635

981 Atomic Absorption-AFPC IX.16.B		
Lab	ppm	Selenium, Se
Median	0	0.000

982 ICP-induced coupled plasma-AFPC IX.16.A		
Lab	ppm	Selenium, Se
77	34	-1.340
Std Dev	30	-1.000
Median	17	0.000
Std Dev	4	1.000
61	0	1.340

983 Other(describe)		
Lab	ppm	Selenium, Se
13	16	0.000
Median	16	0.000

991 Atomic Absorption-AFPC IX.16.B		
Lab	ppm	Zinc, Zn
55	920	0.000
Median	920	0.000

992 ICP-induced coupled plasma-AFPC IX.16.A		
Lab	ppm	Zinc, Zn
78	1089	-1.718
61	1077	-1.608
61	1041	-1.262
78	1023	-1.085
Std Dev	1014	-1.000
24	910	-0.002
24	909	0.000
Median	909	0.000
75	901	0.085
77	896	0.128
77	888	0.205
75	884	0.241
52	866	0.416

993 Other(describe)		
Lab	ppm	Zinc, Zn
19	876	-0.150
20	871	-0.013
20	870	0.000
Median	870	0.000
Std Dev	830	1.000
13	817	1.327
19	761	2.730