

AFPC Rock Check Program

Sample No. 2010-06

| | Method # | # of Anal. | Grand Median | Std Dev |
|--|----------|------------|--------------|---------|
| Moisture | | | | |
| Ground Sample AFPC IX.2.A | 101 | 24 | 0.75 | 0.122 |
| Other (describe) | 102 | 3 | 0.70 | 0.035 |
| Method Group 100 | | 27 | 0.73 | 0.12 |
| P₂O₅ | | | | |
| Gravimetric AFPC IX.3.B | 201 | 4 | 27.70 | 0.057 |
| ICP-induced coupled plasma AFPC IX.3.D | 202 | 5 | 27.64 | 0.119 |
| Photometric-AFPC IX.3.C | 203 | 12 | 27.55 | 0.180 |
| Automated -AOAC 978.01-15th | 204 | 8 | 27.62 | 0.062 |
| Other(describe) | 205 | 6 | 27.83 | 0.396 |
| Method Group 200 | | 35 | 27.64 | 0.19 |
| P₂O₅ (on Dry Basis) | | | | |
| Gravimetric AFPC IX.3.B | 211 | 3 | 27.81 | 0.119 |
| ICP-induced coupled plasma AFPC IX.3.D | 212 | 4 | 27.85 | 0.171 |
| Photometric-AFPC IX.3.C | 213 | 6 | 27.90 | 0.052 |
| Automated -AOAC 978.01-15th | 214 | 8 | 27.82 | 0.107 |
| Other(describe) | 215 | 4 | 28.27 | 0.675 |
| Method Group 210 | | 26 | 27.87 | 0.18 |
| Fe₂O₃ | | | | |
| Atomic Absorption-AFPC IX.6.B | 301 | 3 | 1.09 | 0.078 |
| ICP-induced coupled plasma-AFPC IX.6.C | 302 | 26 | 1.19 | 0.094 |
| Other(describe) | 303 | 4 | 0.40 | 0.681 |
| Method Group 300 | | 33 | 1.18 | 0.10 |
| Al₂O₃ | | | | |
| Atomic Absorption-AFPC IX.7.B | 401 | 2 | 0.97 | 0.063 |
| ICP-induced coupled plasma-AFPC IX.7.C | 402 | 25 | 0.97 | 0.049 |
| Other(describe) | 403 | 4 | 0.35 | 0.627 |
| Method Group 400 | | 31 | 0.97 | 0.07 |
| MgO | | | | |
| Atomic Absorption-AFPC IX.8.A | 501 | 2 | 0.83 | 0.140 |
| ICP-induced coupled plasma-AFPC IX.8.B | 502 | 26 | 1.04 | 0.046 |
| Other(describe) | 503 | 4 | 0.31 | 0.537 |
| Method Group 500 | | 32 | 1.04 | 0.08 |
| Acid Insoluble | | | | |
| Insoluble-AFPC IX.4.A | 601 | 15 | 13.28 | 0.334 |
| Other(describe) | 602 | 3 | 13.90 | 0.291 |
| Method Group 600 | | 18 | 13.41 | 0.34 |
| Carbon Dioxide | | | | |
| Gasometric-AFPC IX.13.B | 651 | 12 | 4.18 | 0.466 |
| Other(describe) | 652 | 8 | 3.99 | 1.887 |
| Method Group 650 | | 20 | 4.13 | 0.56 |
| CaO | | | | |
| Gravimetric sulfate-AFPC IX.12.A | 701 | 2 | 40.78 | 0.750 |
| ICP-induced coupled plasma-AFPC IX.12.D | 702 | 18 | 41.96 | 0.959 |
| Ceric Sulfate volumetric-AFPC IX.12.B | 703 | 1 | 50.35 | 0.000 |
| Permanganate | 704 | 2 | 42.14 | 0.254 |
| EDTA Volumetric-AFPC IX.12.C | 705 | 2 | 41.97 | 0.496 |
| Other(describe) | 706 | 8 | 42.08 | 2.878 |
| Method Group 700 | | 33 | 41.97 | 0.72 |
| CaO (on Dry Basis) | | | | |
| Gravimetric sulfate-AFPC IX.12.A | 711 | 2 | 41.26 | 0.902 |
| ICP-induced coupled plasma-AFPC IX.12.D | 712 | 13 | 42.33 | 0.355 |
| Ceric Sulfate volumetric-AFPC IX.12.B | 713 | 1 | 50.42 | 0.000 |
| Permanganate | 714 | 1 | 42.71 | 0.000 |
| EDTA Volumetric-AFPC IX.12.C | 715 | 1 | 43.15 | 0.000 |
| Other(describe) | 716 | 7 | 42.44 | 4.830 |
| Method Group 710 | | 21 | 42.07 | 29.28 |

| | Method # | # of Anal. | Grand Median | Std Dev |
|---|----------|------------|--------------|---------|
| Fluorine, F | | | | |
| Volumetric-AFPC IX.14.A | 801 | | | |
| Specific Ion Electrode-AFPC IX.14.B | 802 | 16 | 3.19 | 0.121 |
| Other (describe) | 803 | 3 | 3.22 | 0.153 |
| Method Group 800 | | 19 | 3.22 | 0.12 |
| Arsenic, As | | | | |
| Atomic Absorption | 911 | | | |
| ICP-induced coupled plasma-AFPC IX.15.B | 912 | 7 | 16.5 | 10.72 |
| Other(describe) | 913 | 2 | 17.4 | 1.04 |
| Method Group 900 | | 9 | 16.5 | 9.49 |
| Cadmium, Cd | | | | |
| Atomic Absorption-AFPC IX.11.A | 921 | | | |
| ICP-induced coupled plasma-AFPC IX.11.B | 922 | 10 | 3 | 0.7 |
| Other(describe) | 923 | 2 | 4 | 0.9 |
| Method Group 910 | | 12 | 3 | 0.8 |
| Cobalt, Co | | | | |
| Atomic Absorption-AFPC IX.16.B | 931 | | | |
| ICP-induced coupled plasma-AFPC IX.16.A | 932 | 11 | 3 | 1.0 |
| Other(describe) | 933 | 1 | 4 | 0.0 |
| Method Group 920 | | 12 | 3 | 1.0 |
| Mercury, Hg | | | | |
| Atomic Absorption-AFPC IX.16.B | 941 | | | |
| ICP-induced coupled plasma-AFPC IX.16.A | 942 | 2 | 0.0 | 0.04 |
| Other(describe) | 943 | 1 | 0.3 | 0.00 |
| Method Group 930 | | 3 | 0.1 | 0.10 |
| Molybdenum, Mo | | | | |
| Atomic Absorption-AFPC IX.16.B | 951 | | | |
| ICP-induced coupled plasma-AFPC IX.16.A | 952 | 9 | 14 | 1.2 |
| Other(describe) | 953 | 1 | 14 | 0.0 |
| Method Group 940 | | 10 | 14 | 1.0 |
| Nickel, Ni | | | | |
| Atomic Absorption-AFPC IX.16.B | 961 | | | |
| ICP-induced coupled plasma-AFPC IX.16.A | 962 | 10 | 11 | 1.6 |
| Other(describe) | 963 | 1 | 15 | 0.0 |
| Method Group 950 | | 11 | 11 | 2.4 |
| Lead, Pb | | | | |
| Atomic Absorption-AFPC IX.16.B | 971 | | | |
| ICP-induced coupled plasma-AFPC IX.16.A | 972 | 7 | 15 | 1.9 |
| Other(describe) | 973 | 1 | 16 | 0.0 |
| Method Group 960 | | 8 | 15 | 1.9 |
| Selenium, Se | | | | |
| Atomic Absorption-AFPC IX.16.B | 981 | | | |
| ICP-induced coupled plasma-AFPC IX.16.A | 982 | 2 | 2 | 0.3 |
| Other(describe) | 983 | 1 | 3 | 0.0 |
| Method Group 970 | | 3 | 3 | 0.3 |
| Zinc, Zn | | | | |
| Atomic Absorption-AFPC IX.16.B | 991 | 1 | 30 | 0 |
| ICP-induced coupled plasma-AFPC IX.16.A | 992 | 11 | 36 | 7 |
| Other(describe) | 993 | 2 | 44 | 2 |
| Method Group 980 | | 14 | 37 | 9 |

| 101 | Ground Sample AFPC IX.2.A | |
|---------|---------------------------|------------------|
| Lab | % | H ₂ O |
| 55 | 1.62 | -7.152 |
| 266 | 1.20 | -3.723 |
| 10 | 0.91 | -1.350 |
| 16 | 0.91 | -1.350 |
| 61 | 0.90 | -1.268 |
| 61 | 0.89 | -1.187 |
| 16 | 0.87 | -1.023 |
| Std Dev | 0.87 | -1.000 |
| 15 | 0.84 | -0.777 |
| 10 | 0.84 | -0.736 |
| 15 | 0.81 | -0.532 |
| 13 | 0.75 | -0.041 |
| 49 | 0.75 | -0.041 |
| Median | 0.75 | 0.000 |
| 13 | 0.74 | 0.041 |
| 9 | 0.73 | 0.123 |
| 6 | 0.72 | 0.205 |
| 9 | 0.72 | 0.245 |
| 75 | 0.72 | 0.245 |
| 75 | 0.72 | 0.245 |
| 55 | 0.70 | 0.368 |
| 50 | 0.66 | 0.696 |
| Std Dev | 0.62 | 1.000 |
| 30 | 0.53 | 1.759 |
| 77 | 0.23 | 4.214 |
| 77 | 0.22 | 4.296 |
| 241 | 0.13 | 5.033 |

| 102 | Other (describe) | |
|---------|------------------|------------------|
| Lab | % | H ₂ O |
| 69 | 0.70 | -0.141 |
| 35 | 0.70 | 0.000 |
| Median | 0.70 | 0.000 |
| Std Dev | 0.66 | 1.000 |
| 51 | 0.61 | 2.539 |

| 201 | Gravimetric AFPC IX.3.B | |
|---------|-------------------------|--------|
| Lab | % | P2O5 |
| 241 | 27.77 | -1.274 |
| Std Dev | 27.75 | -1.000 |
| 50 | 27.70 | -0.044 |
| Median | 27.70 | 0.000 |

| | | |
|---------|-------|-------|
| 51 | 27.70 | 0.044 |
| Std Dev | 27.64 | 1.000 |
| 77 | 27.48 | 3.822 |

| 202 | ICP-induced coupled plasma AFPC IX.3.D | |
|---------|--|--------|
| Lab | % | P2O5 |
| 266 | 28.09 | -3.769 |
| Std Dev | 27.76 | -1.000 |
| | 27.75 | -0.921 |
| 15 | 27.64 | 0.000 |
| Median | 27.64 | 0.000 |
| 10 | 27.59 | 0.419 |
| Std Dev | 27.52 | 1.000 |
| 10 | 27.42 | 1.842 |

| 203 | Photometric-AFPC IX.3.C | |
|---------|-------------------------|--------|
| Lab | % | P2O5 |
| 60 | 27.95 | -2.222 |
| 30 | 27.78 | -1.278 |
| 49 | 27.76 | -1.166 |
| Std Dev | 27.73 | -1.000 |
| 9 | 27.71 | -0.889 |
| 9 | 27.70 | -0.805 |
| 16 | 27.59 | -0.194 |
| Median | 27.55 | 0.000 |
| 16 | 27.52 | 0.194 |
| 92 | 27.50 | 0.278 |
| 92 | 27.50 | 0.278 |
| 78 | 27.43 | 0.694 |
| 78 | 27.38 | 0.944 |
| Std Dev | 27.37 | 1.000 |
| 270 | 27.34 | 1.166 |

| 204 | Automated -AOAC 978.01-15th | |
|---------|-----------------------------|--------|
| Lab | % | P2O5 |
| 75 | 27.85 | -3.695 |
| Std Dev | 27.68 | -1.000 |
| 6 | 27.67 | -0.772 |
| 13 | 27.67 | -0.772 |
| 15 | 27.64 | -0.203 |
| Median | 27.62 | 0.000 |
| 77 | 27.61 | 0.203 |
| 50 | 27.60 | 0.365 |
| Std Dev | 27.56 | 1.000 |
| 75 | 27.55 | 1.178 |

| | | |
|----|-------|-------|
| 13 | 27.46 | 2.639 |
|----|-------|-------|

| 205 | Other(describe) | |
|---------|-----------------|--------|
| Lab | % | P2O5 |
| 55 | 30.15 | -5.878 |
| 35 | 28.29 | -1.176 |
| Std Dev | 28.22 | -1.000 |
| 69 | 27.85 | -0.063 |
| Median | 27.83 | 0.000 |
| 19 | 27.80 | 0.063 |
| 55 | 27.60 | 0.569 |
| 51 | 27.50 | 0.822 |

| 211 | Gravimetric AFPC IX.3.B | | |
|---------|-------------------------|------|--------|
| Lab | % | P2O5 | dB |
| 51 | 27.86 | | -0.481 |
| 241 | 27.81 | | 0.000 |
| Median | 27.81 | | 0.000 |
| Std Dev | 27.69 | | 1.000 |
| 77 | 27.54 | | 2.199 |

| 212 | ICP-induced coupled plasma AFPC IX.3.D | | |
|---------|--|------|--------|
| Lab | % | P2O5 | dB |
| 266 | 28.43 | | -3.415 |
| Std Dev | 28.02 | | -1.000 |
| 15 | 27.87 | | -0.152 |
| Median | 27.85 | | 0.000 |
| 10 | 27.82 | | 0.152 |
| Std Dev | 27.68 | | 1.000 |
| 10 | 27.67 | | 1.034 |

| 213 | Photometric-AFPC IX.3.C | | |
|---------|-------------------------|------|--------|
| Lab | % | P2O5 | dB |
| 49 | 27.97 | | -1.257 |
| Std Dev | 27.96 | | -1.000 |
| 30 | 27.93 | | -0.458 |
| 9 | 27.91 | | -0.104 |
| Median | 27.90 | | 0.000 |
| 9 | 27.90 | | 0.104 |
| Std Dev | 27.85 | | 1.000 |
| 16 | 27.84 | | 1.259 |
| 16 | 27.76 | | 2.826 |

| 214 | Automated -AOAC 978.01-15th | | |
|---------|-----------------------------|------|--------|
| Lab | % | P2O5 | dB |
| 75 | 28.05 | | -2.130 |
| Std Dev | 27.93 | | -1.000 |
| 13 | 27.88 | | -0.532 |
| 6 | 27.87 | | -0.453 |
| 15 | 27.86 | | -0.360 |
| Median | 27.82 | | 0.000 |
| 50 | 27.78 | | 0.360 |
| 75 | 27.75 | | 0.686 |
| Std Dev | 27.71 | | 1.000 |
| 77 | 27.67 | | 1.409 |
| 13 | 27.66 | | 1.466 |

| 215 | Other(describe) | | |
|---------|-----------------|------|--------|
| Lab | % | P2O5 | dB |
| 55 | 30.36 | | -3.099 |
| Std Dev | 28.95 | | -1.000 |
| 35 | 28.49 | | -0.321 |
| Median | 28.27 | | 0.000 |
| 55 | 28.05 | | 0.321 |
| 69 | 28.05 | | 0.333 |

| 301 | Atomic Absorption-AFPC IX.6.B | |
|---------|-------------------------------|--------|
| Lab | % | Fe2O3 |
| 241 | 1.24 | -1.978 |
| Std Dev | 1.16 | -1.000 |
| 60 | 1.09 | 0.000 |
| Median | 1.09 | 0.000 |
| 30 | 1.03 | 0.702 |

| 302 | ICP-induced coupled plasma-AFPC IX.6.C | |
|---------|--|--------|
| Lab | % | Fe2O3 |
| 77 | 1.40 | -2.202 |
| 51 | 1.39 | -2.096 |
| 77 | 1.38 | -1.990 |
| 78 | 1.35 | -1.619 |
| 266 | 1.33 | -1.459 |
| 15 | 1.30 | -1.088 |
| 15 | 1.30 | -1.088 |
| Std Dev | 1.29 | -1.000 |
| 6 | 1.24 | -0.504 |
| 78 | 1.23 | -0.398 |
| 75 | 1.22 | -0.249 |

| | | |
|----------------|-------------|--------------|
| 270 | 1.21 | -0.186 |
| 9 | 1.20 | -0.027 |
| 9 | 1.20 | -0.027 |
| Median | 1.19 | 0.000 |
| 13 | 1.19 | 0.027 |
| 69 | 1.18 | 0.133 |
| 10 | 1.17 | 0.239 |
| 13 | 1.17 | 0.239 |
| 16 | 1.16 | 0.345 |
| 10 | 1.16 | 0.398 |
| 16 | 1.16 | 0.398 |
| 49 | 1.15 | 0.451 |
| 50 | 1.13 | 0.653 |
| 75 | 1.11 | 0.883 |
| 92 | 1.10 | 0.982 |
| Std Dev | 1.10 | 1.000 |
| 92 | 1.09 | 1.088 |
| 50 | 1.06 | 1.406 |

| 303 Other(describe) | | |
|---------------------|-------------|---------------|
| Lab | % | Fe2O3 |
| 19 | 1.28 | -1.300 |
| Std Dev | 1.08 | -1.000 |
| 35 | 0.79 | -0.580 |
| Median | 0.40 | 0.000 |
| 55 | 0.00 | 0.580 |
| 55 | 0.00 | 0.580 |

| 401 Atomic Absorption-AFPC IX.6.B | | |
|-----------------------------------|-------------|---------------|
| Lab | % | Al2O3 |
| 241 | 1.05 | -1.340 |
| Std Dev | 1.03 | -1.000 |
| Median | 0.97 | 0.000 |
| Std Dev | 0.90 | 1.000 |
| 30 | 0.88 | 1.340 |

| 402 ICP-induced coupled plasma-AFPC IX.6.C | | |
|--|------|--------|
| Lab | % | Al2O3 |
| 78 | 1.46 | -9.908 |
| 266 | 1.41 | -8.989 |
| 77 | 1.30 | -6.741 |
| 77 | 1.30 | -6.741 |
| 78 | 1.30 | -6.639 |
| 51 | 1.07 | -2.043 |

| | | |
|----------------|-------------|---------------|
| Std Dev | 1.02 | -1.000 |
| 69 | 1.01 | -0.817 |
| 15 | 0.99 | -0.409 |
| 15 | 0.99 | -0.409 |
| 50 | 0.98 | -0.204 |
| 9 | 0.98 | -0.102 |
| 6 | 0.97 | 0.000 |
| 9 | 0.97 | 0.000 |
| 10 | 0.97 | 0.000 |
| 13 | 0.97 | 0.000 |
| Median | 0.97 | 0.000 |
| 49 | 0.96 | 0.204 |
| 10 | 0.95 | 0.409 |
| 270 | 0.95 | 0.409 |
| 75 | 0.94 | 0.523 |
| 16 | 0.94 | 0.613 |
| 16 | 0.94 | 0.613 |
| 13 | 0.93 | 0.817 |
| Std Dev | 0.92 | 1.000 |
| 92 | 0.92 | 1.021 |
| 92 | 0.91 | 1.226 |
| 75 | 0.88 | 1.843 |

| 403 Other(describe) | | |
|---------------------|-------------|---------------|
| Lab | % | Al2O3 |
| 19 | 1.29 | -1.508 |
| Std Dev | 0.97 | -1.000 |
| 35 | 0.69 | -0.550 |
| Median | 0.35 | 0.000 |
| 55 | 0.00 | 0.550 |
| 55 | 0.00 | 0.550 |

| 501 Atomic Absorption-AFPC IX.8.A | | |
|-----------------------------------|-------------|---------------|
| Lab | % | MgO |
| 60 | 1.02 | -1.340 |
| Std Dev | 0.97 | -1.000 |
| Median | 0.83 | 0.000 |
| Std Dev | 0.69 | 1.000 |
| 30 | 0.64 | 1.340 |

| 502 ICP-induced coupled plasma-AFPC IX.8.B | | |
|--|------|--------|
| Lab | % | MgO |
| 78 | 1.17 | -2.691 |
| 49 | 1.10 | -1.292 |

| | | |
|----------------|-------------|---------------|
| 6 | 1.09 | -1.076 |
| 13 | 1.09 | -1.076 |
| 16 | 1.09 | -1.076 |
| Std Dev | 1.09 | -1.000 |
| 16 | 1.08 | -0.861 |
| 69 | 1.08 | -0.861 |
| 10 | 1.07 | -0.646 |
| 10 | 1.07 | -0.646 |
| 13 | 1.07 | -0.646 |
| 51 | 1.07 | -0.538 |
| 15 | 1.05 | -0.108 |
| 9 | 1.04 | 0.000 |
| 9 | 1.04 | 0.000 |
| 15 | 1.04 | 0.000 |
| 77 | 1.04 | 0.000 |
| 77 | 1.04 | 0.000 |
| Median | 1.04 | 0.000 |
| 266 | 1.03 | 0.215 |
| 78 | 1.03 | 0.323 |
| 50 | 1.01 | 0.603 |
| Std Dev | 0.99 | 1.000 |
| 92 | 0.97 | 1.507 |
| 270 | 0.97 | 1.507 |
| 92 | 0.96 | 1.722 |
| 50 | 0.89 | 3.229 |
| 75 | 0.87 | 3.739 |
| 75 | 0.84 | 4.274 |

| 503 Other(describe) | | |
|---------------------|-------------|---------------|
| Lab | % | MgO |
| 35 | 1.02 | -1.321 |
| Std Dev | 0.85 | -1.000 |
| 19 | 0.62 | -0.577 |
| Median | 0.31 | 0.000 |
| 55 | 0.00 | 0.577 |
| 55 | 0.00 | 0.577 |

| 601 Insoluble-AFPC IX.4.A | | |
|---------------------------|-------|--------|
| Lab | % | Al |
| 15 | 13.59 | -0.928 |
| 55 | 13.55 | -0.808 |
| 15 | 13.54 | -0.764 |
| 16 | 13.49 | -0.629 |
| 16 | 13.48 | -0.599 |

| | | |
|----------------|--------------|--------------|
| 9 | 13.44 | -0.479 |
| 9 | 13.39 | -0.329 |
| 6 | 13.28 | 0.000 |
| Median | 13.28 | 0.000 |
| 10 | 13.24 | 0.120 |
| 13 | 13.09 | 0.569 |
| 10 | 13.07 | 0.644 |
| 13 | 13.01 | 0.808 |
| Std Dev | 12.95 | 1.000 |
| 55 | 9.45 | 11.469 |
| 69 | 8.54 | 14.194 |
| 30 | 3.41 | 29.555 |

| 602 Other(describe) | | |
|---------------------|-------|--------|
| Lab | % | Al |
| 266 | 14.20 | -1.031 |

| 651 Gasometric-AFPC IX.13.B | | |
|-----------------------------|-------------|---------------|
| Lab | % | CO2 |
| 9 | 4.77 | -1.276 |
| 9 | 4.67 | -1.051 |
| Std Dev | 4.64 | -1.000 |
| 13 | 4.64 | -0.997 |
| 13 | 4.50 | -0.697 |
| 6 | 4.36 | -0.397 |
| 77 | 4.24 | -0.139 |
| Median | 4.18 | 0.000 |
| 69 | 4.11 | 0.139 |
| 15 | 3.98 | 0.429 |
| 15 | 3.93 | 0.525 |
| 30 | 3.85 | 0.697 |
| Std Dev | 3.71 | 1.000 |
| 61 | 3.64 | 1.147 |
| 61 | 3.57 | 1.308 |

| 652 Other(describe) | | |
|---------------------|-------------|---------------|
| Lab | % | CO2 |
| 50 | 45.36 | -21.921 |
| 35 | 7.28 | -1.742 |
| Std Dev | 5.88 | -1.000 |
| 266 | 4.44 | -0.237 |
| 51 | 4.16 | -0.086 |
| Median | 3.99 | 0.000 |
| 78 | 3.83 | 0.086 |

| | | |
|---------|------|-------|
| 78 | 3.50 | 0.264 |
| Std Dev | 2.11 | 1.000 |
| 55 | 0.00 | 2.116 |
| 55 | 0.00 | 2.116 |

| 701 Gravimetric sulfate-AFPC IX.12.A | | |
|--------------------------------------|-------|--------|
| Lab | % | CaO |
| 55 | 41.78 | -1.340 |
| Std Dev | 41.53 | -1.000 |
| Median | 40.78 | 0.000 |
| Std Dev | 40.03 | 1.000 |
| 55 | 39.77 | 1.340 |

| 702 ICP-induced coupled plasma-AFPC IX.12.D | | |
|---|-------|--------|
| Lab | % | CaO |
| 78 | 45.57 | -3.765 |
| 50 | 43.64 | -1.757 |
| 77 | 43.59 | -1.705 |
| 77 | 43.39 | -1.496 |
| Std Dev | 42.91 | -1.000 |
| 15 | 42.21 | -0.266 |
| 9 | 42.21 | -0.261 |
| 49 | 42.12 | -0.172 |
| 16 | 41.99 | -0.031 |
| 16 | 41.97 | -0.010 |
| Median | 41.96 | 0.000 |
| 9 | 41.95 | 0.010 |
| 6 | 41.73 | 0.235 |
| 10 | 41.72 | 0.250 |
| 10 | 41.61 | 0.360 |
| Std Dev | 41.00 | 1.000 |
| 78 | 40.70 | 1.314 |
| 75 | 39.30 | 2.771 |
| 75 | 38.63 | 3.464 |
| 92 | 37.64 | 4.500 |
| 92 | 37.08 | 5.084 |

| 703 Ceriic Sulfate volumetric-AFPC IX.12.B | | |
|--|-------|-------|
| Lab | % | CaO |
| 241 | 50.35 | 0.000 |
| Median | 50.35 | 0.000 |

| 704 Permanganate | | |
|------------------|------|-------|
| Lab | % | CaO |
| 78 | 3.50 | 0.264 |
| Std Dev | 2.11 | 1.000 |
| 55 | 0.00 | 2.116 |
| 55 | 0.00 | 2.116 |

| | | |
|---------|-------|--------|
| 30 | 42.48 | -1.340 |
| Std Dev | 42.39 | -1.000 |
| Median | 42.14 | 0.000 |
| Std Dev | 41.89 | 1.000 |
| 60 | 41.80 | 1.340 |

| 705 EDTA Volumetric-AFPC IX.12.C | | |
|----------------------------------|-------|--------|
| Lab | % | CaO |
| 266 | 42.63 | -1.340 |
| Std Dev | 42.46 | -1.000 |
| Median | 41.97 | 0.000 |
| Std Dev | 41.47 | 1.000 |
| 270 | 41.30 | 1.340 |

| 706 Other(describe) | | |
|---------------------|-------|--------|
| Lab | % | CaO |
| 35 | 43.86 | -0.620 |
| 51 | 42.27 | -0.068 |
| 15 | 42.22 | -0.049 |
| 13 | 42.12 | -0.016 |
| Median | 42.08 | 0.000 |
| 13 | 42.03 | 0.016 |
| 19 | 41.30 | 0.269 |
| Std Dev | 39.20 | 1.000 |
| 69 | 29.59 | 4.338 |
| 50 | 3.21 | 13.505 |

| 711 Gravimetric sulfate-AFPC IX.12.A | | | |
|--------------------------------------|-------|--------|----|
| Lab | % | CaO | dB |
| 55 | 42.47 | -1.340 | |
| Std Dev | 42.16 | -1.000 | |
| Median | 41.26 | 0.000 | |
| Std Dev | 40.36 | 1.000 | |
| 55 | 40.05 | 1.340 | |

| 712 ICP-induced coupled plasma-AFPC IX.12.D | | | |
|---|-------|--------|----|
| Lab | % | CaO | dB |
| 77 | 43.69 | -3.818 | |
| 77 | 43.49 | -3.242 | |
| Std Dev | 42.69 | -1.000 | |
| 15 | 42.57 | -0.659 | |
| 9 | 42.51 | -0.494 | |
| 49 | 42.44 | -0.295 | |
| 16 | 42.37 | -0.105 | |

| | | |
|---------|-------|-------|
| 16 | 42.33 | 0.000 |
| Median | 42.33 | 0.000 |
| 9 | 42.25 | 0.225 |
| 10 | 42.07 | 0.751 |
| 6 | 42.03 | 0.846 |
| 10 | 41.99 | 0.960 |
| Std Dev | 41.98 | 1.000 |
| 75 | 39.58 | 7.743 |
| 75 | 38.91 | 9.627 |

| 713 Ceriic Sulfate volumetric-AFPC IX.12.B | | | |
|--|-------|-------|----|
| Lab | % | CaO | dB |
| 241 | 50.42 | 0.000 | |
| Median | 50.42 | 0.000 | |

| 714 Permanganate | | | |
|------------------|-------|-------|----|
| Lab | % | CaO | dB |
| 30 | 42.71 | 0.000 | |
| Median | 42.71 | 0.000 | |

| 715 EDTA Volumetric-AFPC IX.12.C | | | |
|----------------------------------|-------|-------|----|
| Lab | % | CaO | dB |
| 266 | 43.15 | 0.000 | |
| Median | 43.15 | 0.000 | |

| 716 Other(describe) | | | |
|---------------------|-------|--------|----|
| Lab | % | CaO | dB |
| 35 | 44.17 | -0.358 | |
| 15 | 42.56 | -0.025 | |
| 51 | 42.53 | -0.018 | |
| 13 | 42.44 | 0.000 | |
| Median | 42.44 | 0.000 | |
| 13 | 42.34 | 0.020 | |
| Std Dev | 37.61 | 1.000 | |
| 69 | 29.80 | 2.617 | |
| 50 | 3.23 | 8.117 | |

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

| 802 Specific Ion Electrode-AFPC IX.14.B | | | |
|---|------|-------------|----|
| Lab | % | Fluorine, F | dB |
| 51 | 3.39 | -1.649 | |

| | | |
|---------|------|--------|
| 30 | 3.33 | -1.154 |
| Std Dev | 3.31 | -1.000 |
| 15 | 3.27 | -0.660 |
| 15 | 3.27 | -0.618 |
| 266 | 3.26 | -0.577 |
| 9 | 3.25 | -0.495 |
| 9 | 3.25 | -0.495 |
| 49 | 3.23 | -0.330 |
| Median | 3.19 | 0.000 |
| 13 | 3.15 | 0.330 |
| 69 | 3.13 | 0.495 |
| 13 | 3.11 | 0.660 |
| 270 | 3.10 | 0.742 |
| 75 | 3.10 | 0.783 |
| Std Dev | 3.07 | 1.000 |
| 75 | 2.98 | 1.732 |
| 55 | 2.11 | 8.926 |
| 55 | 1.10 | 17.234 |

| 803 Other(describe) | | | |
|---------------------|------|-------------|----|
| Lab | % | Fluorine, F | dB |
| 35 | 3.62 | -2.615 | |
| Std Dev | 3.37 | -1.000 | |
| 77 | 3.22 | 0.000 | |
| Median | 3.22 | 0.000 | |
| 77 | 3.21 | 0.065 | |

| 911 Atomic Absorption-AFPC | | | |
|----------------------------|-----|-------------|----|
| Lab | ppm | Arsenic, As | dB |
| Median | 0.0 | 0.000 | |

| 912 ICP-induced coupled plasma-AFPC IX.15. | | | |
|--|------|-------------|----|
| Lab | ppm | Arsenic, As | dB |
| 78 | 20.8 | -0.401 | |
| 270 | 20.0 | -0.327 | |
| 78 | 19.9 | -0.317 | |
| 266 | 16.5 | 0.000 | |
| Median | 16.5 | 0.000 | |
| 69 | 7.2 | 0.870 | |
| Std Dev | 5.8 | 1.000 | |
| 77 | 4.0 | 1.166 | |
| 77 | 3.0 | 1.260 | |

| 913 Other(describe) | | | |
|---------------------|------|-------------|--|
| Lab | ppm | Arsenic, As | |
| 13 | 18.8 | -1.340 | |
| Std Dev | 18.4 | -1.000 | |
| Median | 17.4 | 0.000 | |
| Std Dev | 16.4 | 1.000 | |
| 19 | 16.0 | 1.340 | |

| 921 Atomic Absorption-AFPC IX.11.A | | | |
|------------------------------------|-----|-------------|--|
| Lab | ppm | Cadmium, Cd | |
| Median | 0 | 0.000 | |

| 922 ICP-induced coupled plasma-AFPC IX.11.B | | | |
|---|-----|-------------|--|
| Lab | ppm | Cadmium, Cd | |
| 50 | 11 | -11.589 | |
| 78 | 4 | -1.594 | |
| 69 | 4 | -1.449 | |
| 78 | 4 | -1.014 | |
| Std Dev | 4 | -1.000 | |
| 75 | 3 | 0.000 | |
| 75 | 3 | 0.000 | |
| 77 | 3 | 0.000 | |
| 77 | 3 | 0.000 | |
| Median | 3 | 0.000 | |
| 270 | 3 | 0.724 | |
| 266 | 2 | 0.768 | |

| 923 Other(describe) | | | |
|---------------------|-----|-------------|--|
| Lab | ppm | Cadmium, Cd | |
| 19 | 5 | -1.340 | |
| Std Dev | 5 | -1.000 | |
| Median | 4 | 0.000 | |
| Std Dev | 3 | 1.000 | |
| 13 | 3 | 1.340 | |

| 931 Atomic Absorption-AFPC IX.16.B | | | |
|------------------------------------|-----|------------|--|
| Lab | ppm | Cobalt, Co | |
| Median | 0 | 0.000 | |

| 932 ICP-induced coupled plasma-AFPC IX.16.A | | | |
|---|-----|------------|--|
| Lab | ppm | Cobalt, Co | |
| 78 | 4 | -0.957 | |
| 266 | 4 | -0.670 | |
| 69 | 4 | -0.479 | |

| | | | |
|---------|---|--------|--|
| 78 | 4 | -0.479 | |
| 77 | 3 | 0.000 | |
| 77 | 3 | 0.000 | |
| Median | 3 | 0.000 | |
| 270 | 3 | 0.096 | |
| 50 | 2 | 0.766 | |
| 75 | 2 | 0.957 | |
| Std Dev | 2 | 1.000 | |
| 51 | 2 | 1.436 | |
| 75 | 2 | 1.436 | |

| 933 Other(describe) | | | |
|---------------------|-----|------------|--|
| Lab | ppm | Cobalt, Co | |
| 13 | 4 | 0.000 | |
| Median | 4 | 0.000 | |

| 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 | |
| 69 | <0.5 | 0.000 | |
| 266 | 0.1 | -1.340 | |
| Std Dev | 0.1 | -1.000 | |
| Median | 0.0 | 0.000 | |
| Std Dev | 0.0 | 1.000 | |
| 270 | 0.0 | 1.340 | |

| 943 Other(describe) | | | |
|---------------------|-----|-------------|--|
| Lab | ppm | Mercury, Hg | |
| 13 | 0.3 | 0.000 | |
| Median | 0.3 | 0.000 | |

| 951 Atomic Absorption-AFPC IX.16.B | | | |
|------------------------------------|-----|----------------|--|
| Lab | ppm | Molybdenum, Mo | |
| Median | 0 | 0.000 | |

| 952 ICP-induced coupled plasma-AFPC IX.16.A | | | |
|---|-----|----------------|--|
| Lab | ppm | Molybdenum, Mo | |
| 69 | 23 | -7.122 | |
| Std Dev | 15 | -1.000 | |
| 50 | 15 | -0.975 | |
| 51 | 15 | -0.406 | |

| | | | |
|---------|----|--------|--|
| 78 | 14 | -0.122 | |
| 270 | 14 | 0.000 | |
| Median | 14 | 0.000 | |
| 266 | 14 | 0.081 | |
| 78 | 13 | 0.934 | |
| Std Dev | 13 | 1.000 | |
| 77 | 12 | 1.624 | |
| 77 | 12 | 1.624 | |

| 953 Other(describe) | | | |
|---------------------|-----|----------------|--|
| Lab | ppm | Molybdenum, Mo | |
| 13 | 14 | 0.000 | |
| Median | 14 | 0.000 | |

| 961 Atomic Absorption-AFPC IX.16.B | | | |
|------------------------------------|-----|------------|--|
| Lab | ppm | Nickel, Ni | |
| Median | 0 | 0.000 | |

| 962 ICP-induced coupled plasma-AFPC IX.16.A | | | |
|---|-----|------------|--|
| Lab | ppm | Nickel, Ni | |
| 266 | 18 | -4.383 | |
| 270 | 14 | -2.112 | |
| 51 | 13 | -1.167 | |
| Std Dev | 12 | -1.000 | |
| 77 | 11 | -0.221 | |
| 78 | 11 | -0.221 | |
| Median | 11 | 0.000 | |
| 69 | 10 | 0.221 | |
| 75 | 10 | 0.410 | |
| 75 | 10 | 0.410 | |
| 77 | 10 | 0.410 | |
| 78 | 10 | 0.410 | |

| 963 Other(describe) | | | |
|---------------------|-----|------------|--|
| Lab | ppm | Nickel, Ni | |
| 13 | 15 | 0.000 | |
| Median | 15 | 0.000 | |

| 971 Atomic Absorption-AFPC IX.16.B | | | |
|------------------------------------|-----|----------|--|
| Lab | ppm | Lead, Pb | |
| Median | 0 | 0.000 | |

| 972 ICP-induced coupled plasma-AFPC IX.16.A | | | |
|---|-----|----------|--|
| Lab | ppm | Lead, Pb | |

| | | | |
|---------|----|--------|--|
| 69 | 20 | -3.103 | |
| Std Dev | 16 | -1.000 | |
| 270 | 16 | -0.804 | |
| 78 | 15 | -0.268 | |
| 266 | 15 | 0.000 | |
| Median | 15 | 0.000 | |
| 78 | 14 | 0.268 | |
| Std Dev | 13 | 1.000 | |
| 77 | 12 | 1.340 | |
| 77 | 12 | 1.340 | |

| 973 Other(describe) | | | |
|---------------------|-----|----------|--|
| Lab | ppm | Lead, Pb | |
| 13 | 16 | 0.000 | |
| Median | 16 | 0.000 | |

| 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 | ND | 0.000 | |
| 77 | ND | 0.000 | |
| 69 | <0.5 | 0.000 | |
| 266 | 3 | -1.340 | |
| Std Dev | 3 | -1.000 | |
| Median | | 0.000 | |
| 270 | | 1.340 | |

| 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 | |
| 60 | 30 | 0.000 | |
| Median | 30 | 0.000 | |

| 992 ICP-induced coupled plasma-AFPC IX.16.A | | | |
|---|-----|----------|--|
| Lab | ppm | Zinc, Zn | |
| 69 | 61 | -3.526 | |
| 50 | 50 | -2.049 | |

| | | |
|---------|----|--------|
| Std Dev | 43 | -1.000 |
| 78 | 43 | -0.932 |
| 75 | 38 | -0.215 |
| 51 | 37 | -0.143 |
| 75 | 36 | 0.000 |
| 270 | 36 | 0.000 |
| Median | 36 | 0.000 |
| 266 | 32 | 0.530 |
| Std Dev | 29 | 1.000 |
| 77 | 29 | 1.003 |
| 77 | 27 | 1.290 |
| 78 | 12 | 3.511 |

| 993 Other(describe) | | |
|---------------------|-----|----------|
| Lab | ppm | Zinc, Zn |
| 19 | 47 | -1.340 |
| Std Dev | 46 | -1.000 |
| Median | 44 | 0.000 |
| Std Dev | 42 | 1.000 |
| 13 | 42 | 1.340 |