

AFPC Rock Check Program

Sample No. 2010-05

| | Method # | # of Anal. | Grand Median | Std Dev |
|--|----------|------------|--------------|---------|
| Moisture | | | | |
| Ground Sample AFPC IX.2.A | 101 | 20 | 0.59 | 0.060 |
| Other (describe) | 102 | 7 | 0.61 | 0.116 |
| Method Group 100 | | 27 | 0.59 | 0.08 |
| P₂O₅ | | | | |
| Gravimetric AFPC IX.3.B | 201 | 3 | 28.62 | 0.071 |
| ICP-induced coupled plasma AFPC IX.3.D | 202 | 7 | 28.82 | 0.299 |
| Photometric-AFPC IX.3.C | 203 | 9 | 28.66 | 0.134 |
| Automated -AOAC 978.01-15th | 204 | 10 | 28.74 | 0.270 |
| Other(describe) | 205 | 6 | 28.70 | 0.205 |
| Method Group 200 | | 35 | 28.72 | 0.21 |
| P₂O₅ (on Dry Basis) | | | | |
| Gravimetric AFPC IX.3.B | 211 | 3 | 28.69 | 0.070 |
| ICP-induced coupled plasma AFPC IX.3.D | 212 | 5 | 29.00 | 0.132 |
| Photometric-AFPC IX.3.C | 213 | 6 | 28.91 | 0.108 |
| Automated -AOAC 978.01-15th | 214 | 10 | 28.88 | 0.291 |
| Other(describe) | 215 | 3 | 28.94 | 0.105 |
| Method Group 210 | | 27 | 28.93 | 0.21 |
| Fe₂O₃ | | | | |
| Atomic Absorption-AFPC IX.6.B | 301 | 1 | 0.54 | 0.000 |
| ICP-induced coupled plasma-AFPC IX.6.C | 302 | 26 | 0.54 | 0.031 |
| Other(describe) | 303 | 5 | 0.48 | 0.007 |
| Method Group 300 | | 32 | 0.54 | 0.04 |
| Al₂O₃ | | | | |
| Atomic Absorption-AFPC IX.7.B | 401 | 2 | 0.84 | 0.016 |
| ICP-induced coupled plasma-AFPC IX.7.C | 402 | 27 | 0.80 | 0.142 |
| Other(describe) | 403 | 4 | 1.19 | 0.276 |
| Method Group 400 | | 33 | 0.85 | 0.17 |
| MgO | | | | |
| Atomic Absorption-AFPC IX.8.A | 501 | 2 | 0.51 | 0.011 |
| ICP-induced coupled plasma-AFPC IX.8.B | 502 | 27 | 0.47 | 0.030 |
| Other(describe) | 503 | 5 | 0.49 | 0.060 |
| Method Group 500 | | 34 | 0.48 | 0.03 |
| Acid Insoluble | | | | |
| Insoluble-AFPC IX.4.A | 601 | 19 | 13.04 | 0.399 |
| Other(describe) | 602 | 3 | 12.70 | 0.619 |
| Method Group 600 | | 22 | 13.04 | 0.42 |
| Carbon Dioxide | | | | |
| Gasometric-AFPC IX.13.B | 651 | 10 | 3.76 | 0.326 |
| Other(describe) | 652 | 5 | 4.73 | 0.843 |
| Method Group 650 | | 15 | 3.83 | 0.43 |
| CaO | | | | |
| Gravimetric sulfate-AFPC IX.12.A | 701 | | | |
| ICP-induced coupled plasma-AFPC IX.12.D | 702 | 15 | 43.02 | 0.481 |
| Ceric Sulfate volumetric-AFPC IX.12.B | 703 | 1 | 43.47 | 0.000 |
| Permanganate | 704 | 3 | 43.29 | 0.045 |
| EDTA Volumetric-AFPC IX.12.C | 705 | 4 | 43.14 | 0.793 |
| Other(describe) | 706 | 11 | 42.91 | 0.606 |
| Method Group 700 | | 34 | 43.05 | 0.57 |
| CaO (on Dry Basis) | | | | |
| Gravimetric sulfate-AFPC IX.12.A | 711 | | | |
| ICP-induced coupled plasma-AFPC IX.12.D | 712 | 13 | 43.35 | 0.346 |
| Ceric Sulfate volumetric-AFPC IX.12.B | 713 | 1 | 43.68 | 0.000 |
| Permanganate | 714 | 3 | 43.59 | 0.060 |
| EDTA Volumetric-AFPC IX.12.C | 715 | 1 | 43.04 | 0.000 |
| Other(describe) | 716 | 9 | 43.23 | 0.467 |
| Method Group 710 | | 23 | 43.23 | 15.25 |

| | Method # | # of Anal. | Grand Median | Std Dev |
|---|----------|------------|--------------|---------|
| Fluorine, F | | | | |
| Volumetric-AFPC IX.14.A | 801 | | | |
| Specific Ion Electrode-AFPC IX.14.B | 802 | 20 | 2.97 | 0.126 |
| Other (describe) | 803 | 4 | 2.97 | 0.354 |
| Method Group 800 | | 24 | 2.97 | 0.15 |
| Arsenic, As | | | | |
| Atomic Absorption | 911 | | | |
| ICP-induced coupled plasma-AFPC IX.15.B | 912 | 7 | 5.5 | 11.04 |
| Other(describe) | 913 | 2 | 6.4 | 1.82 |
| Method Group 900 | | 9 | 5.5 | 10.15 |
| Cadmium, Cd | | | | |
| Atomic Absorption-AFPC IX.11.A | 921 | | | |
| ICP-induced coupled plasma-AFPC IX.11.B | 922 | 10 | 81 | 2.4 |
| Other(describe) | 923 | 3 | 70 | 7.3 |
| Method Group 910 | | 13 | 81 | 5.0 |
| Cobalt, Co | | | | |
| Atomic Absorption-AFPC IX.16.B | 931 | | | |
| ICP-induced coupled plasma-AFPC IX.16.A | 932 | 7 | 2 | 0.7 |
| Other(describe) | 933 | 1 | 2 | 0.0 |
| Method Group 920 | | 8 | 2 | 0.5 |
| Mercury, Hg | | | | |
| Atomic Absorption-AFPC IX.16.B | 941 | | | |
| ICP-induced coupled plasma-AFPC IX.16.A | 942 | 2 | 0.6 | 0.27 |
| Other(describe) | 943 | 1 | 1.3 | 0.00 |
| Method Group 930 | | 3 | 1.0 | 0.39 |
| Molybdenum, Mo | | | | |
| Atomic Absorption-AFPC IX.16.B | 951 | | | |
| ICP-induced coupled plasma-AFPC IX.16.A | 952 | 9 | 9 | 1.9 |
| Other(describe) | 953 | 1 | 8 | 0.0 |
| Method Group 940 | | 10 | 8 | 1.6 |
| Nickel, Ni | | | | |
| Atomic Absorption-AFPC IX.16.B | 961 | | | |
| ICP-induced coupled plasma-AFPC IX.16.A | 962 | 10 | 81 | 8.5 |
| Other(describe) | 963 | 2 | 72 | 10.4 |
| Method Group 950 | | 12 | 81 | 9.4 |
| Lead, Pb | | | | |
| Atomic Absorption-AFPC IX.16.B | 971 | | | |
| ICP-induced coupled plasma-AFPC IX.16.A | 972 | 8 | 11 | 2.8 |
| Other(describe) | 973 | 1 | 6 | 0.0 |
| Method Group 960 | | 9 | 11 | 4.3 |
| Selenium, Se | | | | |
| Atomic Absorption-AFPC IX.16.B | 981 | | | |
| ICP-induced coupled plasma-AFPC IX.16.A | 982 | 7 | 15 | 5.2 |
| Other(describe) | 983 | 1 | 14 | 0.0 |
| Method Group 970 | | 8 | 14 | 3.4 |
| Zinc, Zn | | | | |
| Atomic Absorption-AFPC IX.16.B | 991 | | | |
| ICP-induced coupled plasma-AFPC IX.16.A | 992 | 10 | 674 | 75 |
| Other(describe) | 993 | 3 | 725 | 67 |
| Method Group 980 | | 13 | 680 | 82 |

| 101 | Ground Sample AFPC IX.2.A | |
|----------------|---------------------------|------------------|
| Lab | % | H ₂ O |
| 16 | 0.69 | -1.675 |
| 24 | 0.66 | -1.173 |
| 10 | 0.66 | -1.089 |
| 10 | 0.65 | -1.005 |
| Std Dev | 0.65 | -1.000 |
| 16 | 0.63 | -0.586 |
| 75 | 0.62 | -0.419 |
| 49 | 0.61 | -0.335 |
| 75 | 0.61 | -0.251 |
| 24 | 0.60 | -0.167 |
| 15 | 0.59 | 0.000 |
| Median | 0.59 | 0.000 |
| 15 | 0.59 | 0.000 |
| 30 | 0.59 | 0.000 |
| 9 | 0.56 | 0.503 |
| 13 | 0.55 | 0.670 |
| 13 | 0.54 | 0.838 |
| Std Dev | 0.53 | 1.000 |
| 9 | 0.53 | 1.005 |
| 6 | 0.52 | 1.173 |
| 241 | 0.47 | 2.010 |
| 77 | 0.25 | 5.695 |
| 77 | 0.18 | 6.868 |

| 102 | Other (describe) | |
|----------------|------------------|------------------|
| Lab | % | H ₂ O |
| 21 | 0.68 | -0.605 |
| 21 | 0.68 | -0.605 |
| 55 | 0.67 | -0.519 |
| 69 | 0.61 | 0.000 |
| Median | 0.61 | 0.000 |
| 35 | 0.54 | 0.605 |
| 50 | 0.50 | 0.951 |
| Std Dev | 0.49 | 1.000 |
| 51 | 0.46 | 1.340 |

| 201 | Gravimetric AFPC IX.3.B | |
|----------------|-------------------------|---------------|
| Lab | % | P2O5 |
| 51 | 28.74 | -1.693 |
| Std Dev | 28.69 | -1.000 |
| 77 | 28.62 | 0.000 |
| Median | 28.62 | 0.000 |

| 241 | 28.55 | 0.987 |
|----------------|--|---------------|
| 202 | ICP-induced coupled plasma AFPC IX.3.D | |
| Lab | % | P2O5 |
| 55 | 29.25 | -1.457 |
| 55 | 29.25 | -1.457 |
| Std Dev | 29.11 | -1.000 |
| 15 | 29.01 | -0.637 |
| 10 | 28.82 | 0.000 |
| Median | 28.82 | 0.000 |
| 10 | 28.81 | 0.017 |
| 6 | 28.65 | 0.570 |
| Std Dev | 28.52 | 1.000 |
| 266 | 27.99 | 2.764 |

| 203 | Photometric-AFPC IX.3.C | |
|----------------|-------------------------|---------------|
| Lab | % | P2O5 |
| 9 | 28.95 | -2.122 |
| 30 | 28.85 | -1.414 |
| Std Dev | 28.79 | -1.000 |
| 9 | 28.78 | -0.893 |
| 49 | 28.72 | -0.447 |
| 16 | 28.66 | 0.000 |
| Median | 28.66 | 0.000 |
| 16 | 28.63 | 0.261 |
| 92 | 28.60 | 0.447 |
| 92 | 28.60 | 0.447 |
| Std Dev | 28.53 | 1.000 |
| 270 | 28.45 | 1.563 |

| 204 | Automated -AOAC 978.01-15th | |
|----------------|-----------------------------|---------------|
| Lab | % | P2O5 |
| 21 | 29.40 | -2.448 |
| 21 | 29.10 | -1.335 |
| 15 | 29.02 | -1.020 |
| Std Dev | 29.01 | -1.000 |
| 13 | 28.84 | -0.371 |
| 13 | 28.79 | -0.185 |
| Median | 28.74 | 0.000 |
| 77 | 28.69 | 0.185 |
| 75 | 28.64 | 0.371 |
| 75 | 28.60 | 0.519 |
| 24 | 28.55 | 0.723 |
| 24 | 28.54 | 0.742 |

| 205 | Other(describe) | |
|----------------|-----------------|--------------|
| Lab | % | P2O5 |
| 19 | 28.90 | -0.975 |
| 35 | 28.90 | -0.975 |
| 50 | 28.80 | -0.487 |
| Median | 28.70 | 0.000 |
| 60 | 28.60 | 0.487 |
| 69 | 28.60 | 0.487 |
| Std Dev | 28.49 | 1.000 |
| 51 | 28.48 | 1.072 |

| 211 | Gravimetric AFPC IX.3.B | | |
|----------------|-------------------------|------|---------------|
| Lab | % | P2O5 | dB |
| 51 | 28.87 | | -2.581 |
| Std Dev | 28.76 | | -1.000 |
| 77 | 28.69 | | 0.000 |
| Median | 28.69 | | 0.000 |
| 241 | 28.68 | | 0.099 |

| 212 | ICP-induced coupled plasma AFPC IX.3.D | | |
|----------------|--|------|---------------|
| Lab | % | P2O5 | dB |
| 55 | 29.45 | | -3.356 |
| 15 | 29.18 | | -1.313 |
| Std Dev | 29.14 | | -1.000 |
| 10 | 29.00 | | 0.000 |
| Median | 29.00 | | 0.000 |
| 10 | 29.00 | | 0.027 |
| Std Dev | 28.87 | | 1.000 |
| 6 | 28.79 | | 1.579 |

| 213 | Photometric-AFPC IX.3.C | | |
|----------------|-------------------------|------|---------------|
| Lab | % | P2O5 | dB |
| 9 | 29.11 | | -1.785 |
| Std Dev | 29.02 | | -1.000 |
| 30 | 29.02 | | -0.983 |
| 9 | 28.93 | | -0.171 |
| Median | 28.91 | | 0.000 |
| 49 | 28.90 | | 0.171 |
| 16 | 28.84 | | 0.689 |
| 16 | 28.82 | | 0.840 |

| 214 | Automated -AOAC 978.01-15th | | |
|-----|-----------------------------|------|----|
| Lab | % | P2O5 | dB |

| | | |
|----------------|--------------|---------------|
| 21 | 29.60 | -2.469 |
| 21 | 29.30 | -1.430 |
| 15 | 29.19 | -1.045 |
| Std Dev | 29.17 | -1.000 |
| 13 | 29.00 | -0.390 |
| 13 | 28.95 | -0.227 |
| Median | 28.88 | 0.000 |
| 75 | 28.82 | 0.227 |
| 75 | 28.77 | 0.375 |
| 77 | 28.74 | 0.486 |
| 24 | 28.73 | 0.528 |
| 24 | 28.72 | 0.570 |

| 215 | Other(describe) | | |
|----------------|-----------------|------|---------------|
| Lab | % | P2O5 | dB |
| 35 | 29.06 | | -1.069 |
| Std Dev | 29.05 | | -1.000 |
| 50 | 28.94 | | 0.000 |
| Median | 28.94 | | 0.000 |
| Std Dev | 28.84 | | 1.000 |
| 69 | 28.78 | | 1.611 |

| 301 | Atomic Absorption-AFPC IX.6.B | |
|---------------|-------------------------------|--------------|
| Lab | % | Fe2O3 |
| 241 | 0.54 | 0.000 |
| Median | 0.54 | 0.000 |

| 302 | ICP-induced coupled plasma-AFPC IX.6.C | |
|----------------|--|---------------|
| Lab | % | Fe2O3 |
| 77 | 0.60 | -1.901 |
| 77 | 0.59 | -1.574 |
| 270 | 0.59 | -1.574 |
| 55 | 0.59 | -1.410 |
| Std Dev | 0.57 | -1.000 |
| 266 | 0.57 | -0.919 |
| 15 | 0.57 | -0.919 |
| 15 | 0.57 | -0.919 |
| 16 | 0.56 | -0.591 |
| 16 | 0.56 | -0.427 |
| 10 | 0.55 | -0.264 |
| 10 | 0.55 | -0.100 |
| 49 | 0.55 | -0.100 |
| 75 | 0.54 | -0.064 |
| Median | 0.54 | 0.000 |

| | | |
|---------|------|--------|
| 6 | 0.54 | 0.064 |
| 9 | 0.54 | 0.064 |
| 9 | 0.54 | 0.064 |
| 92 | 0.54 | 0.064 |
| 13 | 0.53 | 0.391 |
| 92 | 0.53 | 0.391 |
| 75 | 0.53 | 0.540 |
| 51 | 0.53 | 0.555 |
| Std Dev | 0.51 | 1.000 |
| 13 | 0.51 | 1.047 |
| 24 | 0.50 | 1.374 |
| 21 | 0.49 | 1.702 |
| 21 | 0.48 | 2.029 |
| 69 | 0.06 | 15.885 |

| 303 Other(describe) | | |
|---------------------|------|--------|
| Lab | % | Fe2O3 |
| 19 | 0.49 | -1.340 |
| Std Dev | 0.49 | -1.000 |
| 30 | 0.48 | 0.000 |
| 60 | 0.48 | 0.000 |
| Median | 0.48 | 0.000 |
| Std Dev | 0.47 | 1.000 |
| 50 | 0.47 | 1.340 |
| 35 | 0.41 | 9.380 |

| 401 Atomic Absorption-AFPC IX.6.B | | |
|-----------------------------------|------|--------|
| Lab | % | Al2O3 |
| 55 | 0.87 | -1.340 |
| Std Dev | 0.86 | -1.000 |
| Median | 0.84 | 0.000 |
| Std Dev | 0.83 | 1.000 |
| 241 | 0.82 | 1.340 |

| 402 ICP-induced coupled plasma-AFPC IX.6.C | | |
|--|------|--------|
| Lab | % | Al2O3 |
| 266 | 1.68 | -6.206 |
| 77 | 1.61 | -5.713 |
| 77 | 1.60 | -5.642 |
| 55 | 1.09 | -2.045 |
| 51 | 1.03 | -1.587 |
| 15 | 0.98 | -1.269 |
| 15 | 0.98 | -1.234 |
| Std Dev | 0.94 | -1.000 |

| | | |
|--------|------|--------|
| 21 | 0.91 | -0.776 |
| 21 | 0.90 | -0.705 |
| 9 | 0.87 | -0.494 |
| 9 | 0.87 | -0.494 |
| 69 | 0.86 | -0.430 |
| 6 | 0.85 | -0.353 |
| 270 | 0.80 | 0.000 |
| Median | 0.80 | 0.000 |
| 24 | 0.79 | 0.071 |
| 16 | 0.79 | 0.106 |
| 16 | 0.77 | 0.212 |
| 49 | 0.77 | 0.212 |
| 10 | 0.76 | 0.282 |
| 24 | 0.76 | 0.317 |
| 92 | 0.75 | 0.353 |
| 10 | 0.74 | 0.423 |
| 75 | 0.74 | 0.438 |
| 92 | 0.73 | 0.494 |
| 75 | 0.72 | 0.533 |
| 13 | 0.71 | 0.635 |
| 13 | 0.67 | 0.917 |

| 403 Other(describe) | | |
|---------------------|------|--------|
| Lab | % | Al2O3 |
| 19 | 1.60 | -1.503 |
| Std Dev | 1.46 | -1.000 |
| 50 | 1.28 | -0.344 |
| Median | 1.19 | 0.000 |
| 30 | 1.09 | 0.344 |
| Std Dev | 0.91 | 1.000 |
| 35 | 0.69 | 1.793 |

| 501 Atomic Absorption-AFPC IX.8.A | | |
|-----------------------------------|------|--------|
| Lab | % | MgO |
| 55 | 0.52 | -1.340 |
| Std Dev | 0.52 | -1.000 |
| Median | 0.51 | 0.000 |
| Std Dev | 0.49 | 1.000 |
| 30 | 0.49 | 1.340 |

| 502 ICP-induced coupled plasma-AFPC IX.8.B | | |
|--|------|--------|
| Lab | % | MgO |
| 92 | 0.51 | -1.340 |
| 92 | 0.50 | -1.005 |

| | | |
|---------|------|--------|
| 266 | 0.50 | -1.005 |
| Std Dev | 0.50 | -1.000 |
| 55 | 0.50 | -0.838 |
| 69 | 0.49 | -0.727 |
| 15 | 0.49 | -0.670 |
| 15 | 0.49 | -0.670 |
| 49 | 0.49 | -0.670 |
| 6 | 0.49 | -0.503 |
| 9 | 0.48 | -0.335 |
| 9 | 0.48 | -0.335 |
| 16 | 0.48 | -0.335 |
| 16 | 0.48 | -0.168 |
| 10 | 0.47 | 0.000 |
| 10 | 0.47 | 0.000 |
| 13 | 0.47 | 0.000 |
| 77 | 0.47 | 0.000 |
| Median | 0.47 | 0.000 |
| 77 | 0.46 | 0.335 |
| 13 | 0.45 | 0.670 |
| 21 | 0.45 | 0.670 |
| 21 | 0.45 | 0.670 |
| 51 | 0.45 | 0.670 |
| Std Dev | 0.44 | 1.000 |
| 24 | 0.44 | 1.173 |
| 24 | 0.44 | 1.173 |
| 75 | 0.42 | 1.587 |
| 270 | 0.41 | 2.010 |
| 75 | 0.40 | 2.231 |

| 503 Other(describe) | | |
|---------------------|------|--------|
| Lab | % | MgO |
| 241 | 0.51 | -0.402 |
| 19 | 0.51 | -0.335 |
| 35 | 0.49 | 0.000 |
| Median | 0.49 | 0.000 |
| Std Dev | 0.43 | 1.000 |
| 60 | 0.43 | 1.005 |
| 50 | 0.42 | 1.173 |

| 601 Insoluble-AFPC IX.4.A | | |
|---------------------------|-------|---------|
| Lab | % | Al |
| 55 | 19.75 | -16.806 |
| 15 | 15.76 | -6.813 |
| 15 | 15.72 | -6.700 |

| | | |
|---------|-------|--------|
| Std Dev | 13.44 | -1.000 |
| 16 | 13.31 | -0.676 |
| 21 | 13.25 | -0.526 |
| 16 | 13.24 | -0.488 |
| 9 | 13.22 | -0.451 |
| 9 | 13.12 | -0.200 |
| 24 | 13.12 | -0.200 |
| 30 | 13.04 | 0.000 |
| Median | 13.04 | 0.000 |
| 6 | 13.04 | 0.013 |
| 24 | 13.03 | 0.038 |
| 10 | 12.83 | 0.526 |
| 13 | 12.73 | 0.776 |
| 10 | 12.69 | 0.889 |
| Std Dev | 12.64 | 1.000 |
| 21 | 12.63 | 1.027 |
| 13 | 12.52 | 1.302 |
| 69 | 8.98 | 10.169 |
| 55 | 6.80 | 15.629 |

| 602 Other(describe) | | |
|---------------------|-------|--------|
| Lab | % | Al |
| 266 | 13.40 | -1.130 |
| Std Dev | 13.32 | -1.000 |

| 651 Gasometric-AFPC IX.13.B | | |
|-----------------------------|------|--------|
| Lab | % | CO2 |
| 69 | 4.19 | -1.321 |
| Std Dev | 4.09 | -1.000 |
| 13 | 3.95 | -0.584 |
| 9 | 3.94 | -0.553 |
| 9 | 3.89 | -0.399 |
| 13 | 3.83 | -0.215 |
| Median | 3.76 | 0.000 |
| 77 | 3.69 | 0.215 |
| 77 | 3.51 | 0.768 |
| 15 | 3.49 | 0.845 |
| 15 | 3.48 | 0.860 |
| Std Dev | 3.43 | 1.000 |
| 30 | 3.19 | 1.751 |

| 652 Other(describe) | | |
|---------------------|------|--------|
| Lab | % | CO2 |
| 35 | 7.90 | -3.759 |
| Std Dev | 5.57 | -1.000 |

| | | |
|---------|------|-------|
| 21 | 4.73 | 0.000 |
| 21 | 4.73 | 0.000 |
| Median | 4.73 | 0.000 |
| Std Dev | 3.89 | 1.000 |
| 51 | 3.60 | 1.340 |
| 266 | 3.11 | 1.921 |

| | | |
|--------|----------------------------------|-------|
| 701 | Gravimetric sulfate-AFPC IX.12.A | |
| Lab | % | CaO |
| Median | 0.00 | 0.000 |

| | | |
|---------|---|--------|
| 702 | ICP-induced coupled plasma-AFPC IX.12.D | |
| Lab | % | CaO |
| 77 | 43.80 | -1.620 |
| 16 | 43.69 | -1.392 |
| Std Dev | 43.50 | -1.000 |
| 77 | 43.50 | -0.997 |
| 10 | 43.32 | -0.623 |
| 16 | 43.32 | -0.623 |
| 10 | 43.31 | -0.602 |
| 49 | 43.09 | -0.145 |
| 9 | 43.02 | 0.000 |
| Median | 43.02 | 0.000 |
| 9 | 42.97 | 0.114 |
| 15 | 42.89 | 0.280 |
| 92 | 42.76 | 0.540 |
| 69 | 42.59 | 0.893 |
| Std Dev | 42.54 | 1.000 |
| 92 | 42.53 | 1.018 |
| 75 | 41.15 | 3.893 |
| 75 | 40.89 | 4.431 |

| | | |
|--------|---------------------------------------|-------|
| 703 | Ceric Sulfate volumetric-AFPC IX.12.B | |
| Lab | % | CaO |
| 241 | 43.47 | 0.000 |
| Median | 43.47 | 0.000 |

| | | |
|---------|--------------|--------|
| 704 | Permanganate | |
| Lab | % | CaO |
| 21 | 43.40 | -2.457 |
| Std Dev | 43.33 | -1.000 |
| 21 | 43.29 | 0.000 |
| Median | 43.29 | 0.000 |
| 30 | 43.28 | 0.223 |

| | | |
|---------|------------------------------|--------|
| 705 | EDTA Volumetric-AFPC IX.12.C | |
| Lab | % | CaO |
| 270 | 44.06 | -1.160 |
| Std Dev | 43.93 | -1.000 |
| 266 | 43.53 | -0.492 |
| Median | 43.14 | 0.000 |
| 55 | 42.75 | 0.492 |
| Std Dev | 42.35 | 1.000 |
| 55 | 42.15 | 1.249 |

| | | |
|---------|-----------------|--------|
| 706 | Other(describe) | |
| Lab | % | CaO |
| 50 | 46.26 | -5.525 |
| 35 | 43.55 | -1.056 |
| Std Dev | 43.52 | -1.000 |
| 51 | 43.46 | -0.907 |
| 6 | 43.09 | -0.289 |
| 24 | 42.94 | -0.049 |
| 15 | 42.91 | 0.000 |
| Median | 42.91 | 0.000 |
| 24 | 42.78 | 0.223 |
| 60 | 42.65 | 0.429 |
| Std Dev | 42.30 | 1.000 |
| 13 | 42.27 | 1.056 |
| 13 | 42.24 | 1.105 |
| 19 | 42.10 | 1.336 |

| | | | |
|--------|----------------------------------|-------|----|
| 711 | Gravimetric sulfate-AFPC IX.12.A | | |
| Lab | % | CaO | dB |
| Median | 0.00 | 0.000 | |

| | | | |
|---------|---|--------|----|
| 712 | ICP-induced coupled plasma-AFPC IX.12.D | | |
| Lab | % | CaO | dB |
| 16 | 43.96 | -1.763 | |
| 77 | 43.91 | -1.604 | |
| Std Dev | 43.70 | -1.000 | |
| 16 | 43.62 | -0.770 | |
| 10 | 43.60 | -0.719 | |
| 10 | 43.60 | -0.696 | |
| 77 | 43.58 | -0.647 | |
| 49 | 43.35 | 0.000 | |
| Median | 43.35 | 0.000 | |
| 9 | 43.25 | 0.304 | |

| | | |
|---------|-------|-------|
| 9 | 43.21 | 0.426 |
| 15 | 43.14 | 0.621 |
| Std Dev | 43.01 | 1.000 |
| 69 | 42.85 | 1.453 |
| 75 | 41.40 | 5.644 |
| 75 | 41.14 | 6.409 |

| | | | |
|--------|---------------------------------------|-------|----|
| 713 | Ceric Sulfate volumetric-AFPC IX.12.B | | |
| Lab | % | CaO | dB |
| 241 | 43.68 | 0.000 | |
| Median | 43.68 | 0.000 | |

| | | | |
|---------|--------------|--------|----|
| 714 | Permanganate | | |
| Lab | % | CaO | dB |
| 21 | 43.70 | -1.852 | |
| Std Dev | 43.65 | -1.000 | |
| 21 | 43.59 | 0.000 | |
| Median | 43.59 | 0.000 | |
| 30 | 43.54 | 0.828 | |

| | | | |
|--------|------------------------------|-------|----|
| 715 | EDTA Volumetric-AFPC IX.12.C | | |
| Lab | % | CaO | dB |
| 55 | 43.04 | 0.000 | |
| Median | 43.04 | 0.000 | |

| | | | |
|---------|-----------------|--------|----|
| 716 | Other(describe) | | |
| Lab | % | CaO | dB |
| 50 | 46.49 | -7.000 | |
| 35 | 43.79 | -1.202 | |
| Std Dev | 43.69 | -1.000 | |
| 51 | 43.66 | -0.928 | |
| 6 | 43.31 | -0.182 | |
| 24 | 43.23 | 0.000 | |
| Median | 43.23 | 0.000 | |
| 15 | 43.16 | 0.130 | |
| 24 | 43.03 | 0.412 | |
| Std Dev | 42.76 | 1.000 | |
| 13 | 42.50 | 1.555 | |
| 13 | 42.47 | 1.610 | |

| | | |
|--------|-------------------------|-------------|
| 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 |
| 69 | 3.52 | -4.387 |
| 13 | 3.16 | -1.529 |
| 49 | 3.10 | -1.052 |
| Std Dev | 3.09 | -1.000 |
| 30 | 3.09 | -0.973 |
| 15 | 3.07 | -0.774 |
| 15 | 3.07 | -0.774 |
| 266 | 3.05 | -0.655 |
| 13 | 3.01 | -0.337 |
| 21 | 2.98 | -0.099 |
| 75 | 2.98 | -0.099 |
| Median | 2.97 | 0.000 |
| 21 | 2.96 | 0.099 |
| 270 | 2.95 | 0.139 |
| 24 | 2.93 | 0.298 |
| 9 | 2.93 | 0.337 |
| 9 | 2.91 | 0.496 |
| 51 | 2.87 | 0.774 |
| 75 | 2.86 | 0.854 |
| Std Dev | 2.84 | 1.000 |
| 24 | 2.82 | 1.211 |
| 55 | 2.68 | 2.283 |
| 55 | 2.67 | 2.402 |

| | | |
|---------|-----------------|-------------|
| 803 | Other(describe) | |
| Lab | % | Fluorine, F |
| 35 | 3.44 | -1.326 |
| Std Dev | 3.32 | -1.000 |
| 50 | 3.17 | -0.564 |
| Median | 2.97 | 0.000 |
| 77 | 2.77 | 0.564 |
| 77 | 2.74 | 0.649 |

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

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|---------|--|-------------|
| 912 | ICP-induced coupled plasma-AFPC IX.15. | |
| Lab | ppm | Arsenic, As |
| 270 | 19.0 | -1.222 |
| 55 | 17.0 | -1.041 |
| Std Dev | 16.5 | -1.000 |

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|---------------|------------|--------------|
| 6 | 14.6 | -0.824 |
| 266 | 5.5 | 0.000 |
| Median | 5.5 | 0.000 |
| 77 | 1.0 | 0.407 |
| 77 | 1.0 | 0.407 |
| 69 | 0.1 | 0.487 |

| | | |
|---------------------|------------|---------------|
| 913 Other(describe) | | |
| Lab | ppm | Arsenic, As |
| 13 | 8.9 | -1.340 |
| Std Dev | 8.3 | -1.000 |
| Median | 6.4 | 0.000 |
| Std Dev | 4.6 | 1.000 |
| 19 | 4.0 | 1.340 |

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

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|---|-----------|---------------|
| 922 ICP-induced coupled plasma-AFPC IX.11.B | | |
| Lab | ppm | Cadmium, Cd |
| 69 | 96 | -6.226 |
| 55 | 91 | -4.020 |
| 6 | 85 | -1.546 |
| Std Dev | 84 | -1.000 |
| 77 | 82 | -0.309 |
| 75 | 82 | -0.103 |
| Median | 81 | 0.000 |
| 75 | 81 | 0.103 |
| 77 | 81 | 0.103 |
| 270 | 81 | 0.103 |
| Std Dev | 79 | 1.000 |
| 266 | 78 | 1.216 |
| 51 | 76 | 2.165 |

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|---------------------|-----------|---------------|
| 923 Other(describe) | | |
| Lab | ppm | Cadmium, Cd |
| 13 | 90 | -2.680 |
| Std Dev | 77 | -1.000 |
| 19 | 70 | 0.000 |
| 50 | 70 | 0.000 |
| Median | 70 | 0.000 |

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

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|---|----------|---------------|
| 932 ICP-induced coupled plasma-AFPC IX.16.A | | |
| Lab | ppm | Cobalt, Co |
| 69 | 4 | -3.285 |
| 270 | 3 | -1.031 |
| Std Dev | 3 | -1.000 |
| 55 | 2 | -0.275 |
| 6 | 2 | 0.000 |
| Median | 2 | 0.000 |
| 266 | 2 | 0.275 |
| Std Dev | 1 | 1.000 |
| 77 | 1 | 1.099 |
| 77 | 1 | 1.099 |

| | | |
|---------------------|----------|--------------|
| 933 Other(describe) | | |
| Lab | ppm | Cobalt, Co |
| 13 | 2 | 0.000 |
| Median | 2 | 0.000 |

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|------------------------------------|------------|--------------|
| 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 |
| 270 | 1.0 | -1.340 |
| Std Dev | 0.9 | -1.000 |
| Median | 0.6 | 0.000 |
| Std Dev | 0.4 | 1.000 |
| 266 | 0.3 | 1.340 |

| | | |
|---------------------|------------|--------------|
| 943 Other(describe) | | |
| Lab | ppm | Mercury, Hg |
| 13 | 1.3 | 0.000 |
| Median | 1.3 | 0.000 |

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|------------------------------------|----------|----------------|
| 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 | 25 | -8.710 |
| 270 | 11 | -1.233 |
| Std Dev | 11 | -1.000 |
| 51 | 10 | -0.429 |
| 55 | 9 | -0.161 |
| 6 | 9 | 0.000 |
| Median | 9 | 0.000 |
| 266 | 8 | 0.504 |
| 77 | 7 | 0.911 |
| 77 | 7 | 0.911 |
| Std Dev | 7 | 1.000 |
| 24 | 6 | 1.715 |

| | | |
|---------------------|----------|----------------|
| 953 Other(describe) | | |
| Lab | ppm | Molybdenum, Mo |
| 13 | 8 | 0.000 |
| Median | 8 | 0.000 |

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|------------------------------------|----------|--------------|
| 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 |
| 270 | 276 | -23.007 |
| 69 | 101 | -2.391 |
| Std Dev | 89 | -1.000 |
| 6 | 88 | -0.860 |
| 51 | 84 | -0.330 |
| 55 | 83 | -0.212 |
| Median | 81 | 0.000 |
| 266 | 79 | 0.212 |
| 75 | 79 | 0.259 |
| 75 | 75 | 0.730 |
| Std Dev | 72 | 1.000 |
| 77 | 72 | 1.025 |
| 77 | 71 | 1.143 |

| | | |
|---------------------|-----------|---------------|
| 963 Other(describe) | | |
| Lab | ppm | Nickel, Ni |
| 13 | 86 | -1.340 |
| Std Dev | 82 | -1.000 |

| | | |
|----------------|-----------|--------------|
| Median | 72 | 0.000 |
| Std Dev | 62 | 1.000 |
| 19 | 58 | 1.340 |

| | | |
|------------------------------------|----------|--------------|
| 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 | 36 | -8.851 |
| 270 | 16 | -1.738 |
| Std Dev | 14 | -1.000 |
| 55 | 12 | -0.290 |
| 24 | 11 | -0.072 |
| Median | 11 | 0.000 |
| 6 | 11 | 0.072 |
| 266 | 10 | 0.290 |
| Std Dev | 8 | 1.000 |
| 77 | 6 | 1.883 |
| 77 | 6 | 1.883 |

| | | |
|---------------------|----------|--------------|
| 973 Other(describe) | | |
| Lab | ppm | Lead, Pb |
| 13 | 6 | 0.000 |
| Median | 6 | 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 |
| 69 | 63 | -9.303 |
| Std Dev | 20 | -1.000 |
| 270 | 17 | -0.479 |
| 266 | 16 | -0.191 |
| 55 | 15 | 0.000 |
| Median | 15 | 0.000 |
| 6 | 14 | 0.191 |
| Std Dev | 9 | 1.000 |
| 77 | 5 | 1.819 |
| 77 | 5 | 1.819 |

| 983 Other(describe) | | |
|---------------------|-----|--------------|
| Lab | ppm | Selenium, Se |
| 13 | 14 | 0.000 |
| Median | 14 | 0.000 |

| 991 Atomic Absorption-AFPC IX.16.B | | |
|------------------------------------|-----|----------|
| Lab | ppm | Zinc, Zn |
| Median | 0 | 0.000 |

| 992 ICP-induced coupled plasma-AFPC IX.16.A | | |
|---|-----|----------|
| Lab | ppm | Zinc, Zn |
| 6 | 744 | -0.932 |
| 51 | 717 | -0.573 |
| 75 | 711 | -0.486 |
| 69 | 706 | -0.426 |
| 75 | 680 | -0.080 |
| Median | 674 | 0.000 |
| 55 | 668 | 0.080 |
| 266 | 614 | 0.799 |
| 77 | 607 | 0.892 |
| Std Dev | 599 | 1.000 |
| 77 | 585 | 1.185 |
| 270 | 514 | 2.131 |

| 993 Other(describe) | | |
|---------------------|-----|----------|
| Lab | ppm | Zinc, Zn |
| 13 | 760 | -0.521 |
| 60 | 725 | 0.000 |
| Median | 725 | 0.000 |
| Std Dev | 658 | 1.000 |
| 19 | 580 | 2.159 |