

AFPC

Sample

2015-01

Grade

18-46-0

| | AOAC Ref. | Method # | # of Labs. | Grand Median | Std Dev |
|---|------------|----------|------------|--------------|---------|
| AMMONIACAL NITROGEN | | | | | |
| Ammoniacal Nitrogen, MgO distillation | 920.03 | 001.10 | 1 | 17.66 | 0.00 |
| Ammoniacal Nitrogen, Other | | 001.99 | 13 | 16.98 | 0.10 |
| Method Group 001.XX PCT | | | 14 | 16.98 | 0.14 |
| TOTAL NITROGEN | | | | | |
| Total Nitrogen, Modified Comprehensive | 978.02 | 010.11 | 3 | 17.24 | 0.09 |
| Total Nitrogen, Combustion | 993.13 | 010.60 | 19 | 17.65 | 0.28 |
| Total Nitrogen, Other | | 010.99 | 5 | 17.43 | 0.09 |
| Method Group 010.XX PCT | | | 27 | 17.53 | 0.39 |
| TOTAL PHOSPHATE | | | | | |
| Total Phosphate, Gravimetric Quimociac | | 020.10 | 2 | 46.17 | 0.18 |
| Total Phosphate, Spectrometric | 978.02 | 020.20 | 19 | 45.99 | 0.21 |
| Total Phosphate, Alka. Quimociac | 955.04d | 020.30 | 1 | 45.95 | 0.00 |
| Total Phosphate, ICP | 970.03 | 020.40 | 4 | 46.21 | 0.13 |
| Total Phosphate, Other | 993.13 | 020.99 | 1 | 45.62 | 0.00 |
| Method Group 020.XX PCT | | | 27 | 45.99 | 0.29 |
| INSOLUBLE PHOSPHATE | | | | | |
| Insoluble Phosphate, Spectrometric | 963.03C(b) | 030.20 | 8 | 0.10 | 0.03 |
| Insoluble Phosphate, Alka. Quimociac | 963.03C(c) | 030.30 | 1 | 0.10 | 0.00 |
| Insoluble Phosphate, Automated | 978.01 | 030.40 | 3 | 0.17 | 0.03 |
| Insoluble Phosphate, Other | | 030.99 | 2 | 0.05 | 0.00 |
| Method Group 030.XX PCT | | | 14 | 0.11 | 0.04 |
| INDIRECT AVAILABLE PHOSPHATE | | | | | |
| Indirect Available Phosphate, Spectrometric | 960.02 | 040.20 | 10 | 45.90 | 0.17 |
| Indirect Available Phosphate, Automated | 960.02 | 040.40 | 1 | 46.00 | 0.00 |
| Indirect Available Phosphate, Other | | 040.99 | 1 | 45.81 | 0.00 |
| Method Group 040.XX PCT | | | 12 | 45.90 | 0.18 |
| DIRECT AVAILABLE PHOSPHATE | | | | | |
| Direct Available Phosphate, Gravimetric Quimociac | 960.03E | 041.10 | 3 | 46.01 | 0.26 |
| Direct Available Phosphate, Spectrometric | 960.03D | 041.20 | 1 | 46.11 | 0.00 |
| Direct Available Phosphate, Automated | 978.01 | 041.40 | 2 | 44.95 | 0.75 |
| Direct Available Phosphate, ICP | | 041.50 | 4 | 46.41 | 0.22 |
| Direct Available Phosphate, EDTA Extract | 993.01 | 041.60 | 4 | 46.11 | 0.46 |
| Method Group 041.XX PCT | | | 14 | 46.10 | 0.39 |
| POLYPHOSPHATE (% of total) | | | | | |
| Polyphosphate, Other | | 043.99 | 1 | 1.03 | 0.00 |
| Method Group 043.XX PCT | | | 1 | 1.03 | 0.00 |
| WATER SOLUBLE PHOSPHATE | | | | | |
| Water Soluble Phosphate, Spectrometric | 970.01 | 048.20 | 13 | 41.47 | 0.30 |
| Water Soluble Phosphate, Alka. Quimociac | 964.04 | 048.30 | 1 | 40.28 | 0.00 |
| Water Soluble Phosphate, Other | | 048.99 | 4 | 41.55 | 0.75 |
| Method Group 048.XX PCT | | | 18 | 41.44 | 0.57 |
| SOLUBLE POTASH AS K₂O | | | | | |
| Soluble Potash, Atomic Absorption(Oxalate) | | 050.30 | 1 | 0.02 | 0.00 |
| Soluble Potash, ICP(Oxalate) | | 050.50 | 3 | 0.10 | 0.00 |
| Soluble Potash, ICP(Citrate) | | 050.51 | 1 | 0.12 | 0.00 |
| Soluble Potash, Other | | 050.99 | 8 | 0.11 | 0.00 |
| Method Group 050.XX PCT | | | 13 | 0.11 | 0.01 |
| FREE WATER | | | | | |
| Free Water, Vacuum Oven | 965.08B | 060.00 | 14 | 2.96 | 0.10 |
| Free Water, Vacuum Desiccate | 965.08A | 060.10 | 3 | 3.99 | 0.70 |
| Free Water, Other | | 060.99 | 4 | 2.75 | 0.05 |
| Method Group 060.XX PCT | | | 21 | 2.90 | 0.21 |
| ACID SOLUBLE CALCIUM AS CaO | | | | | |
| Acid Soluble Calcium, Atomic Absorption | 945.04 | 101.00 | 1 | 0.09 | 0.00 |
| Acid Soluble Calcium, ICP | | 101.30 | 16 | 0.30 | 0.02 |

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|---|---|-----------|--------|------|------|------|
| AFPC Check Sample 01-2015 | Method Group 101.XX PCT | | 17 | 0.30 | 0.03 | |
| ACID SOLUBLE MAGNESIUM AS MgO | | | | | | |
| | Acid Soluble Magnesium, Atomic Absorption | 984.01 | 121.00 | 1 | 1.52 | 0.00 |
| | Acid Soluble Magnesium, ICP | | 121.30 | 16 | 1.52 | 0.09 |
| | Acid Soluble Magnesium, Other | | 121.99 | 1 | 1.45 | 0.00 |
| Method Group 121.XX PCT | | | | | | |
| SULFATE SULFUR (S) | | | | | | |
| | Sulfur, Gravimetric | 980.02(a) | 144.01 | 2 | 2.29 | 0.87 |
| | Sulfur, Spectrometric | | 144.70 | 2 | 1.07 | 0.00 |
| | Sulfur, Other | | 144.99 | 10 | 1.10 | 0.01 |
| Method Group 144.XX PCT | | | | | | |
| TOTAL SULFUR (S) | | | | | | |
| | Sulfur, Other | | 145.99 | 3 | 1.14 | 0.04 |
| Method Group 145.XX PCT | | | | | | |
| TOTAL ARSENIC | | | | | | |
| | Total Arsenic, ICP | 980.02(b) | 151.02 | 7 | 17 | 2.1 |
| Method Group 151.XX PPM | | | | | | |
| ACID SOLUBLE BORON | | | | | | |
| | Acid Soluble Boron, Other | | 165.99 | 1 | 55 | 0.0 |
| Method Group 165.XX PPM | | | | | | |
| TOTAL CADMIUM | | | | | | |
| | Total Cadmium, ICP | | 181.30 | 6 | 3 | 1.0 |
| | Total Cadmium, Other | | 181.99 | 1 | 3 | 0.0 |
| Method Group 181.XX PPM | | | | | | |
| ALUMINUM AS Al₂O₃ | | | | | | |
| | ICP, % | | | 15 | 1.26 | 0.03 |
| | Water Soluble Chlorine, Other, % | | 190.99 | 1 | 1.29 | 0.00 |
| Method Group 190.XX PCT | | | | | | |
| TOTAL CHROMIUM | | | | | | |
| | Total Chromium, ICP | | 191.30 | 7 | 104 | 5.0 |
| | Total Chromium, Other | | 191.99 | 1 | 104 | 0.0 |
| Method Group 191.XX PPM | | | | | | |
| ACID SOLUBLE COBALT | | | | | | |
| | Acid Soluble Cobalt, ICP | | 202.30 | 4 | 5 | 0.0 |
| | Acid Soluble Cobalt, Other | | 202.99 | 1 | 4 | 0.0 |
| Method Group 202.XX PPM | | | | | | |
| ACID SOLUBLE COPPER | | | | | | |
| | Acid Soluble Copper, ICP | | 221.30 | 3 | 1.0 | 1.7 |
| | Acid Soluble Copper, Other | | 221.99 | 1 | 0.0 | 0.0 |
| Method Group 221.XX PPM | | | | | | |
| ACID SOLUBLE IRON AS Fe₂O₃ | | | | | | |
| | Acid Soluble Iron, ICP | | 241.30 | 16 | 1.76 | 0.05 |
| | Acid Soluble Iron, Other | | 241.99 | 1 | 1.74 | 0.00 |
| Method Group 241.XX PCT | | | | | | |
| TOTAL LEAD | | | | | | |
| | Total Lead, ICP | | 251.30 | 5 | 2 | 1.5 |
| | Total Lead, Other | | 251.99 | 1 | 1.2 | 0.0 |
| Method Group 251.XX PPM | | | | | | |
| ACID SOLUBLE MANGANESE | | | | | | |
| | Acid Soluble Manganese, Atomic Absorption | 972.02b | 261.11 | 1 | 291 | 0.0 |
| | Acid Soluble Manganese, ICP | 972.02a | 261.30 | 3 | 288 | 40.3 |
| | Acid Soluble Manganese, Other | | 261.99 | 6 | 288 | 13.7 |
| Method Group 261.XX PPM | | | | | | |
| TOTAL MERCURY | | | | | | |
| | Total Mercury, ICP | | 281.30 | 1 | 0.00 | 0.00 |
| Method Group 281.XX PPM | | | | | | |
| TOTAL MOLYBDENUM | | | | | | |
| | Total Molybdenum, ICP | | 289.30 | 5 | 8 | 0.6 |
| | Total Molybdenum, Other | | 289.99 | 1 | 10 | 0.0 |
| Method Group 289.XX PPM | | | | | | |
| TOTAL NICKEL | | | | | | |
| | | | | 6 | 8 | 0.9 |

| | | | | | |
|--------------------------------------|--------|--------|------|------|------|
| Total Nickel, ICP | 291.30 | 5 | 16 | 0.7 | |
| Total Nickel, icp | 291.99 | 1 | 17 | 0.0 | |
| Method Group 291.XX PPM | | 6 | 17 | 1.1 | |
| TOTAL SELENIUM | | | | | |
| Total Selenium, ICP | 301.30 | 3 | 0.1 | 0.1 | |
| Method Group 301.XX PPM | | 3 | 0.1 | 0.2 | |
| SODIUM AS Na₂O | | | | | |
| Sodium, Other | 311.99 | 9 | 0.21 | 0.01 | |
| Method Group 311.XX PCT | | 9 | 0.21 | 0.01 | |
| ACID SOLUBLE ZINC | | | | | |
| Acid Soluble Zinc, Atomic Absorption | 975.02 | 321.00 | 2 | 20.2 | 15.0 |
| Acid Soluble Zinc, ICP | | 321.30 | 5 | 43.6 | 5.9 |
| Acid Soluble Zinc, Other | | 321.99 | 3 | 41.0 | 2.3 |
| Method Group 321.XX PPM | | | 10 | 40.7 | 6.4 |
| FLUORIDE | | | | | |
| Volumentric | 325.10 | 13 | 2.03 | 0.07 | |
| Distilled/Electrode | 325.99 | 3 | 2.24 | 0.11 | |
| Method Group 325.XX PCT | | 16 | 2.04 | 0.05 | |

| 001.10 Ammoniacal Nitrogen | | |
|----------------------------|--------------|------------------|
| Lab | | MgO distillation |
| 31 | 17.66 | 0.000 |
| Median | 17.66 | 0.000 |

| 001.99 Ammoniacal Nitrogen | | |
|----------------------------|--------------|---------------|
| Lab | | Other |
| 275 | 17.16 | -1.836 |
| Std Dev | 17.08 | -1.000 |
| 23 | 17.08 | -0.993 |
| 23 | 17.07 | -0.943 |
| 140 | 17.04 | -0.596 |
| 24 | 16.98 | -0.050 |
| 79 | 16.98 | -0.050 |
| 61 | 16.98 | 0.000 |
| Median | 16.98 | 0.000 |
| 34 | 16.93 | 0.447 |
| 24 | 16.92 | 0.546 |
| 32 | 16.90 | 0.744 |
| Std Dev | 16.87 | 1.000 |
| 61 | 16.87 | 1.092 |
| 310 | 16.84 | 1.340 |
| 32 | 16.75 | 2.233 |

| 001.XX Ammoniacal Nitrogen | | |
|----------------------------|--------------|---------------|
| Lab | | Total Method |
| 31 | 17.66 | -5.853 |
| 275 | 17.16 | -1.565 |
| Std Dev | 17.09 | -1.000 |
| 23 | 17.08 | -0.836 |
| 23 | 17.07 | -0.793 |
| 140 | 17.04 | -0.493 |
| 24 | 16.98 | -0.021 |
| 79 | 16.98 | -0.021 |
| Median | 16.98 | 0.000 |
| 61 | 16.98 | 0.021 |
| 34 | 16.93 | 0.407 |
| 24 | 16.92 | 0.493 |
| 32 | 16.90 | 0.665 |
| 61 | 16.87 | 0.965 |
| Std Dev | 16.86 | 1.000 |
| 310 | 16.84 | 1.179 |
| 32 | 16.75 | 1.951 |

| 010.11 Total Nitrogen | | |
|-----------------------|--------------|------------------------|
| Lab | | Modified Comprehensive |
| 219 | 17.48 | -2.573 |
| Std Dev | 17.33 | -1.000 |
| 43 | 17.24 | 0.000 |
| Median | 17.24 | 0.000 |
| 43 | 17.23 | 0.107 |

| 010.60 Total Nitrogen | | |
|-----------------------|--------------|--------------|
| Lab | | Combustion |
| 63 | 17.91 | -0.935 |
| 47 | 17.90 | -0.881 |
| 14 | 17.89 | -0.845 |
| 14 | 17.88 | -0.827 |
| 49 | 17.88 | -0.809 |
| 24 | 17.87 | -0.791 |
| 137 | 17.87 | -0.791 |
| 66 | 17.82 | -0.594 |
| 24 | 17.79 | -0.504 |
| 77 | 17.65 | 0.000 |
| Median | 17.65 | 0.000 |
| 9 | 17.57 | 0.306 |
| 219 | 17.56 | 0.324 |
| 79 | 17.53 | 0.432 |
| 61 | 17.51 | 0.522 |
| 61 | 17.50 | 0.558 |
| 80 | 17.45 | 0.719 |
| Std Dev | 17.37 | 1.000 |
| 99 | 17.34 | 1.133 |
| 111 | 17.31 | 1.223 |
| 103 | 17.24 | 1.475 |

| 010.99 Total Nitrogen | | |
|-----------------------|--------------|---------------|
| Lab | | Other |
| 34 | 17.73 | -3.216 |
| Std Dev | 17.52 | -1.000 |
| 140 | 17.52 | -0.911 |
| 40 | 17.43 | 0.000 |
| Median | 17.43 | 0.000 |
| 32 | 17.39 | 0.429 |
| 32 | 17.36 | 0.804 |

| 010.XX Total Nitrogen | | |
|-----------------------|--|--------------|
| Lab | | Total Method |

| | | |
|----------------|--------------|---------------|
| 63 | 17.91 | -1.177 |
| 47 | 17.90 | -1.131 |
| 14 | 17.89 | -1.100 |
| 14 | 17.88 | -1.084 |
| 49 | 17.88 | -1.069 |
| 24 | 17.87 | -1.053 |
| 137 | 17.87 | -1.053 |
| Std Dev | 17.85 | -1.000 |
| 66 | 17.82 | -0.883 |
| 24 | 17.79 | -0.806 |
| 34 | 17.73 | -0.620 |
| 77 | 17.65 | -0.372 |
| 9 | 17.57 | -0.108 |
| 219 | 17.56 | -0.093 |
| 79 | 17.53 | 0.000 |
| Median | 17.53 | 0.000 |
| 140 | 17.52 | 0.046 |
| 61 | 17.51 | 0.077 |
| 61 | 17.50 | 0.108 |
| 219 | 17.48 | 0.170 |
| 80 | 17.45 | 0.248 |
| 40 | 17.43 | 0.310 |
| 32 | 17.39 | 0.434 |
| 32 | 17.36 | 0.542 |
| 99 | 17.34 | 0.604 |
| 111 | 17.31 | 0.682 |
| 103 | 17.24 | 0.898 |
| 43 | 17.24 | 0.914 |
| 43 | 17.23 | 0.945 |

| 020.10 Total Phosphate | | |
|------------------------|--------------|-----------------------|
| Lab | | Gravimetric Quimociac |
| 219 | 46.40 | -1.340 |
| Std Dev | 46.34 | -1.000 |
| Median | 46.17 | 0.000 |
| Std Dev | 45.99 | 1.000 |
| 241 | 45.93 | 1.340 |

| 020.20 Total Phosphate | | |
|------------------------|-------|---------------|
| Lab | | Spectrometric |
| 31 | 46.42 | -2.058 |
| 14 | 46.39 | -1.938 |
| 14 | 46.34 | -1.699 |
| 275 | 46.32 | -1.603 |

| | | |
|----------------|--------------|---------------|
| 99 | 46.23 | -1.173 |
| Std Dev | 46.19 | -1.000 |
| 9 | 46.14 | -0.742 |
| 24 | 46.14 | -0.742 |
| 61 | 46.14 | -0.742 |
| 32 | 46.09 | -0.503 |
| 23 | 45.99 | 0.000 |
| 23 | 45.99 | 0.000 |
| Median | 45.99 | 0.000 |
| 24 | 45.98 | 0.024 |
| 32 | 45.95 | 0.191 |
| 34 | 45.92 | 0.311 |
| 43 | 45.89 | 0.455 |
| 79 | 45.89 | 0.479 |
| 61 | 45.87 | 0.574 |
| 140 | 45.86 | 0.598 |
| 43 | 45.85 | 0.646 |

| 020.30 Total Phosphate | | |
|------------------------|--------------|-----------------|
| Lab | | Alka. Quimociac |
| 111 | 45.95 | 0.000 |
| Median | 45.95 | 0.000 |

| 020.40 Total Phosphate | | |
|------------------------|--------------|---------------|
| Lab | | Automated |
| 137 | 46.42 | -1.658 |
| Std Dev | 46.33 | -1.000 |
| 219 | 46.23 | -0.154 |
| Median | 46.21 | 0.000 |
| 9 | 46.19 | 0.154 |
| Std Dev | 46.08 | 1.000 |
| 111 | 45.85 | 2.776 |

| 020.99 Total Phosphate | | |
|------------------------|--------------|--------------|
| Lab | | Other |
| 310 | 45.62 | 0.000 |
| Median | 45.62 | 0.000 |

| 020.XX Total Phosphate | | |
|------------------------|-------|--------------|
| Lab | | Total Method |
| 137 | 46.42 | -1.807 |
| 31 | 46.42 | -1.787 |
| 219 | 46.40 | -1.724 |
| 14 | 46.39 | -1.683 |

| | | |
|----------------|--------------|---------------|
| 14 | 46.34 | -1.475 |
| 275 | 46.32 | -1.392 |
| 99 | 46.23 | -1.018 |
| Std Dev | 46.23 | -1.000 |
| 219 | 46.23 | -0.997 |
| 9 | 46.19 | -0.831 |
| 9 | 46.14 | -0.644 |
| 24 | 46.14 | -0.644 |
| 61 | 46.14 | -0.644 |
| 32 | 46.09 | -0.436 |
| 23 | 45.99 | 0.000 |
| 23 | 45.99 | 0.000 |
| Median | 45.99 | 0.000 |
| 24 | 45.98 | 0.021 |
| 32 | 45.95 | 0.166 |
| 111 | 45.95 | 0.166 |
| 241 | 45.93 | 0.229 |
| 34 | 45.92 | 0.270 |
| 43 | 45.89 | 0.395 |
| 79 | 45.89 | 0.416 |
| 61 | 45.87 | 0.499 |
| 140 | 45.86 | 0.519 |
| 43 | 45.85 | 0.561 |
| 111 | 45.85 | 0.582 |
| Std Dev | 45.74 | 1.000 |
| 310 | 45.62 | 1.517 |

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|--|-------------|---------------|
| 030.20 Insoluble Phosphate Spectrometric | | |
| Lab | | |
| 24 | 0.15 | -1.819 |
| 79 | 0.13 | -1.053 |
| Std Dev | 0.13 | -1.000 |
| 140 | 0.12 | -0.670 |
| 24 | 0.11 | -0.287 |
| Median | 0.10 | 0.000 |
| 23 | 0.10 | 0.287 |
| 61 | 0.09 | 0.479 |
| 23 | 0.08 | 0.861 |
| Std Dev | 0.08 | 1.000 |
| 61 | 0.08 | 1.053 |

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| 030.30 Insoluble Phosphate Alka. Quimociac | | |
| Lab | | |
| 31 | 0.10 | 0.000 |

| | | |
|---------------|-------------|--------------|
| Median | 0.10 | 0.000 |
|---------------|-------------|--------------|

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|--------------------------------------|-------------|--------------|
| 030.40 Insoluble Phosphate Automated | | |
| Lab | | |
| 9 | 0.19 | -0.838 |
| 9 | 0.17 | 0.000 |
| Median | 0.17 | 0.000 |
| Std Dev | 0.14 | 1.000 |
| 34 | 0.11 | 1.843 |

| | | |
|----------------------------------|-------------|--------------|
| 030.99 Insoluble Phosphate Other | | |
| Lab | | |
| 32 | 0.05 | 0.000 |
| 32 | 0.05 | 0.000 |
| Median | 0.05 | 0.000 |

| | | |
|---|-------------|---------------|
| 030.XX Insoluble Phosphate Total Method | | |
| Lab | | |
| 9 | 0.19 | -2.531 |
| 9 | 0.17 | -1.787 |
| 24 | 0.15 | -1.340 |
| Std Dev | 0.14 | -1.000 |
| 79 | 0.13 | -0.744 |
| 140 | 0.12 | -0.447 |
| 24 | 0.11 | -0.149 |
| 34 | 0.11 | -0.149 |
| Median | 0.11 | 0.000 |

| | | |
|----------------|-------------|--------------|
| 31 | 0.10 | 0.149 |
| 23 | 0.10 | 0.298 |
| 61 | 0.09 | 0.447 |
| 23 | 0.08 | 0.744 |
| 61 | 0.08 | 0.893 |
| Std Dev | 0.07 | 1.000 |
| 32 | 0.05 | 1.787 |
| 32 | 0.05 | 1.787 |

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|---|--------------|---------------|
| 040.20 Indirect Available Phosphate Spectrometric | | |
| Lab | | |
| 31 | 46.32 | -2.559 |
| 61 | 46.07 | -1.014 |
| Std Dev | 46.06 | -1.000 |
| 24 | 46.03 | -0.802 |
| 9 | 45.95 | -0.318 |
| 23 | 45.91 | -0.045 |

| | | |
|---------------|--------------|--------------|
| Median | 45.90 | 0.000 |
| 23 | 45.89 | 0.045 |
| 24 | 45.83 | 0.409 |
| 61 | 45.78 | 0.742 |
| 79 | 45.76 | 0.863 |
| 140 | 45.74 | 0.954 |

| | | |
|---|--------------|--------------|
| 040.40 Indirect Available Phosphate Automated | | |
| Lab | | |
| 9 | 46.00 | 0.000 |
| Median | 46.00 | 0.000 |

| | | |
|---|--------------|--------------|
| 040.99 Indirect Available Phosphate Other | | |
| Lab | | |
| 34 | 45.81 | 0.000 |
| Median | 45.81 | 0.000 |

| | | |
|--|--------------|---------------|
| 040.XX Indirect Available Phosphate Total Method | | |
| Lab | | |
| 31 | 46.32 | -2.796 |
| 61 | 46.07 | -1.108 |
| Std Dev | 46.05 | -1.000 |
| 24 | 46.03 | -0.877 |
| 9 | 46.00 | -0.645 |
| 9 | 45.95 | -0.347 |
| 23 | 45.91 | -0.050 |
| Median | 45.90 | 0.000 |
| 23 | 45.89 | 0.050 |
| 24 | 45.83 | 0.447 |
| 34 | 45.81 | 0.579 |
| 61 | 45.78 | 0.811 |
| 79 | 45.76 | 0.943 |
| Std Dev | 45.75 | 1.000 |
| 140 | 45.74 | 1.042 |

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| 041.10 Direct Available Phosphate Gravimetric Quimociac | | |
| Lab | | |
| 107 | 46.38 | -1.427 |
| Std Dev | 46.27 | -1.000 |
| 219 | 46.01 | 0.000 |
| Median | 46.01 | 0.000 |
| Std Dev | 45.75 | 1.000 |
| 47 | 45.69 | 1.253 |

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|---|--------------|--------------|
| 041.20 Direct Available Phosphate Spectrometric | | |
| Lab | | |
| 275 | 46.11 | 0.000 |
| Median | 46.11 | 0.000 |

| | | |
|---|--------------|---------------|
| 041.40 Direct Available Phosphate Automated | | |
| Lab | | |
| 49 | 45.95 | -1.340 |
| Std Dev | 45.70 | -1.000 |
| Median | 44.95 | 0.000 |
| Std Dev | 44.20 | 1.000 |
| 103 | 43.95 | 1.340 |

| | | |
|---------------------------------------|--------------|--------------|
| 041.50 Direct Available Phosphate ICP | | |
| Lab | | |
| 47 | 46.49 | -0.370 |
| 63 | 46.42 | -0.046 |
| Median | 46.41 | 0.000 |
| 80 | 46.40 | 0.046 |
| Std Dev | 46.19 | 1.000 |
| 66 | 45.39 | 4.713 |

| | | |
|--|--------------|---------------|
| 041.60 Direct Available Phosphate EDTA Extract | | |
| Lab | | |
| 29 | 48.42 | -5.027 |
| Std Dev | 46.57 | -1.000 |
| 77 | 46.13 | -0.038 |
| Median | 46.11 | 0.000 |
| 137 | 46.10 | 0.038 |
| 219 | 46.07 | 0.104 |

| | | |
|--|--------------|---------------|
| 041.XX Direct Available Phosphate Total Method | | |
| Lab | | |
| 29 | 48.42 | -7.216 |
| 47 | 46.49 | -1.208 |
| Std Dev | 46.42 | -1.000 |
| 63 | 46.42 | -0.989 |
| 80 | 46.40 | -0.927 |
| 107 | 46.38 | -0.865 |
| 77 | 46.13 | -0.086 |
| 275 | 46.11 | -0.023 |
| Median | 46.10 | 0.000 |
| 137 | 46.10 | 0.023 |
| 219 | 46.07 | 0.117 |

| | | |
|---------|-------|-------|
| 219 | 46.01 | 0.288 |
| 49 | 45.95 | 0.475 |
| Std Dev | 45.78 | 1.000 |
| 47 | 45.69 | 1.301 |
| 66 | 45.39 | 2.220 |
| 103 | 43.95 | 6.723 |

| 043.99 Polyphosphate | | |
|----------------------|-------|-------|
| Lab | Other | |
| 31 | 1.03 | 0.000 |
| Median | 1.03 | 0.000 |

| 043.XX Polyphosphate | | |
|----------------------|--------------|-------|
| Lab | Total Method | |
| 31 | 1.03 | 0.000 |
| Median | 1.03 | 0.000 |

| 048.20 Water Soluble Phosphate | | |
|--------------------------------|---------------|--------|
| Lab | Spectrometric | |
| 31 | 41.92 | -1.491 |
| 14 | 41.91 | -1.474 |
| 14 | 41.87 | -1.323 |
| Std Dev | 41.77 | -1.000 |
| 9 | 41.71 | -0.804 |
| 24 | 41.62 | -0.503 |
| 24 | 41.61 | -0.469 |
| 23 | 41.47 | 0.000 |
| Median | 41.47 | 0.000 |
| 23 | 41.41 | 0.201 |
| 61 | 41.33 | 0.469 |
| 140 | 41.31 | 0.536 |
| 79 | 41.19 | 0.938 |
| Std Dev | 41.17 | 1.000 |
| 61 | 41.12 | 1.173 |
| 275 | 39.52 | 6.533 |

| 048.30 Water Soluble Phosphate | | |
|--------------------------------|-----------------|-------|
| Lab | Alka. Quimociac | |
| 111 | 40.28 | 0.000 |
| Median | 40.28 | 0.000 |

| 048.99 Water Soluble Phosphate | | |
|--------------------------------|-------|--------|
| Lab | Other | |
| 32 | 41.88 | -0.449 |

| | | |
|---------|-------|--------|
| 32 | 41.88 | -0.449 |
| Median | 41.55 | 0.000 |
| 34 | 41.21 | 0.449 |
| Std Dev | 40.80 | 1.000 |
| 111 | 39.89 | 2.218 |

| 048.XX Water Soluble Phosphate | | |
|--------------------------------|--------------|--------|
| Lab | Total Method | |
| 31 | 41.92 | -1.008 |
| Std Dev | 41.91 | -1.000 |
| 14 | 41.91 | -0.998 |
| 32 | 41.88 | -0.934 |
| 32 | 41.88 | -0.934 |
| 14 | 41.87 | -0.902 |
| 9 | 41.71 | -0.573 |
| 24 | 41.62 | -0.382 |
| 24 | 41.61 | -0.361 |
| 23 | 41.47 | -0.064 |
| Median | 41.44 | 0.000 |
| 23 | 41.41 | 0.064 |
| 61 | 41.33 | 0.234 |
| 140 | 41.31 | 0.276 |
| 34 | 41.21 | 0.488 |
| 79 | 41.19 | 0.531 |
| 61 | 41.12 | 0.679 |
| Std Dev | 40.97 | 1.000 |
| 111 | 40.28 | 2.462 |
| 111 | 39.89 | 3.290 |
| 275 | 39.52 | 4.076 |

| 050.30 Soluble Potash | | |
|-----------------------|----------------------------|-------|
| Lab | Atomic Absorption(Oxalate) | |
| 107 | 0.02 | 0.000 |
| Median | 0.02 | 0.000 |

| 050.50 %K ₂ O Soluble Potash | | |
|---|--------------|-------|
| Lab | ICP(Oxalate) | |
| 23 | 0.10 | 0.000 |
| 23 | 0.10 | 0.000 |
| Median | 0.10 | 0.000 |
| Std Dev | 0.10 | 1.000 |
| 99 | 0.09 | 2.680 |

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

| 050.99 Soluble Potash | | |
|-----------------------|-------------------------|--------|
| Lab | %K ₂ O Other | |
| 80 | 0.14 | -8.724 |
| Std Dev | 0.11 | -1.000 |
| 24 | 0.11 | 0.000 |
| 24 | 0.11 | 0.000 |
| 61 | 0.11 | 0.000 |
| 61 | 0.11 | 0.000 |
| Median | 0.11 | 0.000 |
| Std Dev | 0.11 | 1.000 |
| 43 | 0.11 | 1.302 |
| 111 | 0.11 | 1.454 |
| 43 | 0.10 | 1.530 |

| 050.XX Soluble Potash | | |
|-----------------------|--------------------------------|--------|
| Lab | %K ₂ O Total Method | |
| 80 | 0.14 | -4.620 |
| 137 | 0.12 | -1.940 |
| Std Dev | 0.11 | -1.000 |
| 24 | 0.11 | -0.600 |
| 24 | 0.11 | -0.600 |
| 61 | 0.11 | -0.600 |
| 61 | 0.11 | -0.600 |
| 43 | 0.11 | 0.000 |
| Median | 0.11 | 0.000 |
| 111 | 0.11 | 0.070 |
| 43 | 0.10 | 0.105 |
| 23 | 0.10 | 0.740 |
| 23 | 0.10 | 0.740 |
| Std Dev | 0.10 | 1.000 |
| 99 | 0.09 | 2.080 |
| 107 | 0.02 | 11.460 |

| 060.00 Free Water | | |
|-------------------|-------------|--------|
| Lab | Vacuum Oven | |
| 140 | 3.30 | -3.487 |
| Std Dev | 3.06 | -1.000 |
| 23 | 3.04 | -0.833 |
| 9 | 3.03 | -0.729 |

| | | |
|--------|------|--------|
| 79 | 3.02 | -0.572 |
| 24 | 3.00 | -0.416 |
| 23 | 2.99 | -0.260 |
| 24 | 2.97 | -0.104 |
| Median | 2.96 | 0.000 |

| | | |
|---------|------|-------|
| 34 | 2.95 | 0.104 |
| 31 | 2.90 | 0.624 |
| 32 | 2.89 | 0.729 |
| 32 | 2.88 | 0.833 |
| Std Dev | 2.86 | 1.000 |
| 43 | 2.80 | 1.665 |
| 43 | 2.76 | 2.134 |
| 111 | 2.64 | 3.330 |

| 060.10 Free Water | | |
|-------------------|------------------|--------|
| Lab | Vacuum Desiccate | |
| 61 | 4.28 | -0.417 |
| 61 | 3.99 | 0.000 |
| Median | 3.99 | 0.000 |
| Std Dev | 3.29 | 1.000 |
| 310 | 2.41 | 2.263 |

| 060.99 Free Water | | |
|-------------------|-------|--------|
| Lab | Other | |
| 14 | 2.79 | -0.739 |
| 275 | 2.78 | -0.554 |
| Median | 2.75 | 0.000 |
| 14 | 2.72 | 0.554 |
| Std Dev | 2.70 | 1.000 |
| 275 | 2.68 | 1.294 |

| 060.XX Free Water | | |
|-------------------|--------------|--------|
| Lab | Total Method | |
| 61 | 4.28 | -7.840 |
| 61 | 3.99 | -6.187 |
| 140 | 3.30 | -2.252 |
| Std Dev | 3.08 | -1.000 |
| 23 | 3.04 | -0.798 |
| 9 | 3.03 | -0.741 |
| 79 | 3.02 | -0.656 |
| 24 | 3.00 | -0.570 |
| 23 | 2.99 | -0.485 |
| 24 | 2.97 | -0.399 |
| 34 | 2.95 | -0.285 |

| | | |
|---------|------|-------|
| 31 | 2.90 | 0.000 |
| Median | 2.90 | 0.000 |
| 32 | 2.89 | 0.057 |
| 32 | 2.88 | 0.114 |
| 43 | 2.80 | 0.570 |
| 14 | 2.79 | 0.627 |
| 275 | 2.78 | 0.684 |
| 43 | 2.76 | 0.827 |
| Std Dev | 2.72 | 1.000 |
| 14 | 2.72 | 1.026 |
| 275 | 2.68 | 1.254 |
| 111 | 2.64 | 1.483 |
| 310 | 2.41 | 2.794 |

| | | |
|--------|----------------------|-------------------|
| 101.00 | Acid Soluble Calcium | |
| Lab | %CaO | Atomic Absorption |
| 219 | 0.09 | 0.000 |
| Median | 0.09 | 0.000 |

| | | |
|---------|----------------------|--------|
| 101.30 | Acid Soluble Calcium | |
| Lab | %CaO | ICP |
| 32 | 0.35 | -2.412 |
| 32 | 0.33 | -1.608 |
| 24 | 0.32 | -1.072 |
| 61 | 0.32 | -1.072 |
| Std Dev | 0.32 | -1.000 |
| 34 | 0.31 | -0.536 |
| 61 | 0.31 | -0.536 |
| 31 | 0.30 | -0.188 |
| 23 | 0.30 | 0.000 |
| 24 | 0.30 | 0.000 |
| Median | 0.30 | 0.000 |
| 14 | 0.30 | 0.268 |
| 14 | 0.29 | 0.536 |
| 23 | 0.29 | 0.536 |
| Std Dev | 0.28 | 1.000 |
| 111 | 0.28 | 1.072 |
| 43 | 0.25 | 2.907 |
| 9 | 0.25 | 2.948 |
| 43 | 0.24 | 3.398 |

| | | |
|--------|----------------------|--------------|
| 101.XX | Acid Soluble Calcium | |
| Lab | %CaO | Total Method |
| 32 | 0.35 | -2.010 |

| | | |
|---------|------|--------|
| 32 | 0.33 | -1.340 |
| Std Dev | 0.32 | -1.000 |
| 24 | 0.32 | -0.893 |
| 61 | 0.32 | -0.893 |
| 34 | 0.31 | -0.447 |
| 61 | 0.31 | -0.447 |
| 31 | 0.30 | -0.156 |
| 23 | 0.30 | 0.000 |
| 24 | 0.30 | 0.000 |
| Median | 0.30 | 0.000 |
| 14 | 0.30 | 0.223 |
| 14 | 0.29 | 0.447 |
| 23 | 0.29 | 0.447 |
| 111 | 0.28 | 0.893 |
| Std Dev | 0.28 | 1.000 |
| 43 | 0.25 | 2.422 |
| 9 | 0.25 | 2.457 |
| 43 | 0.24 | 2.832 |
| 219 | 0.09 | 9.380 |

| | | |
|--------|------------------------|-------------------|
| 121.00 | Acid Soluble Magnesium | |
| Lab | %MgO | Atomic Absorption |
| 219 | 1.52 | 0.000 |
| Median | 1.52 | 0.000 |

| | | |
|---------|------------------------|--------|
| 121.30 | Acid Soluble Magnesium | |
| Lab | %MgO | ICP |
| 24 | 1.58 | -0.699 |
| 32 | 1.58 | -0.641 |
| 24 | 1.57 | -0.583 |
| 32 | 1.57 | -0.524 |
| 61 | 1.57 | -0.524 |
| 23 | 1.56 | -0.466 |
| 23 | 1.56 | -0.408 |
| 61 | 1.53 | -0.117 |
| Median | 1.52 | 0.000 |
| 34 | 1.51 | 0.117 |
| 9 | 1.49 | 0.350 |
| 111 | 1.47 | 0.641 |
| 31 | 1.47 | 0.641 |
| Std Dev | 1.43 | 1.000 |
| 14 | 1.41 | 1.340 |
| 14 | 1.40 | 1.398 |
| 43 | 1.33 | 2.272 |

| | | |
|--------|------------------------|-------|
| 43 | 1.31 | 2.447 |
| 121.99 | Acid Soluble Magnesium | |
| Lab | %MgO | Other |
| 219 | 1.45 | 0.000 |
| Median | 1.45 | 0.000 |

| | | |
|---------|------------------------|--------------|
| 121.XX | Acid Soluble Magnesium | |
| Lab | %MgO | Total Method |
| 24 | 1.58 | -0.765 |
| 32 | 1.58 | -0.706 |
| 24 | 1.57 | -0.647 |
| 32 | 1.57 | -0.588 |
| 61 | 1.57 | -0.588 |
| 23 | 1.56 | -0.529 |
| 23 | 1.56 | -0.470 |
| 61 | 1.53 | -0.174 |
| 219 | 1.52 | -0.062 |
| Median | 1.52 | 0.000 |
| 34 | 1.51 | 0.062 |
| 9 | 1.49 | 0.298 |
| 111 | 1.47 | 0.594 |
| 31 | 1.47 | 0.594 |
| 219 | 1.45 | 0.824 |
| Std Dev | 1.43 | 1.000 |
| 14 | 1.41 | 1.303 |
| 14 | 1.40 | 1.362 |
| 43 | 1.33 | 2.249 |
| 43 | 1.31 | 2.426 |

| | | |
|---------|--------------------|--------|
| 144..01 | Sulfate Sulfur (S) | |
| Lab | Gravimetric | |
| 241 | 3.46 | -1.340 |
| Std Dev | 3.16 | -1.000 |
| Median | 2.29 | 0.000 |
| Std Dev | 1.42 | 1.000 |
| 79 | 1.13 | 1.340 |

| | | |
|---------|---------------|--------|
| 144.70 | Sulfur | |
| Lab | Spectrometric | |
| 14 | 1.08 | -1.340 |
| Std Dev | 1.07 | -1.000 |
| Median | 1.07 | 0.000 |
| Std Dev | 1.07 | 1.000 |

| | | |
|---------|--------------------|--------|
| 14 | 1.07 | 1.340 |
| 144.99 | Sulfate Sulfur (S) | |
| Lab | Other | |
| 32 | 1.18 | -8.576 |
| 32 | 1.18 | -8.576 |
| 24 | 1.11 | -1.072 |
| Std Dev | 1.11 | -1.000 |
| 24 | 1.10 | 0.000 |
| 34 | 1.10 | 0.000 |
| 61 | 1.10 | 0.000 |
| Median | 1.10 | 0.000 |
| 23 | 1.10 | 0.536 |
| 23 | 1.10 | 0.536 |
| Std Dev | 1.09 | 1.000 |
| 61 | 1.07 | 3.216 |
| 31 | 1.04 | 6.968 |

| | | |
|---------|--------------------|---------|
| 144.XX | Sulfate Sulfur (S) | |
| Lab | Total Method | |
| 241 | 3.46 | -76.664 |
| 32 | 1.18 | -2.599 |
| 32 | 1.18 | -2.599 |
| Std Dev | 1.13 | -1.000 |
| 79 | 1.13 | -0.812 |
| 24 | 1.11 | -0.325 |
| 24 | 1.10 | 0.000 |
| 34 | 1.10 | 0.000 |
| 61 | 1.10 | 0.000 |
| Median | 1.10 | 0.000 |
| 23 | 1.10 | 0.162 |
| 23 | 1.10 | 0.162 |
| 14 | 1.08 | 0.812 |
| 14 | 1.07 | 0.975 |
| 61 | 1.07 | 0.975 |
| Std Dev | 1.07 | 1.000 |
| 31 | 1.04 | 2.112 |

| | | |
|---------|------------------|--------|
| 145.99 | Total Sulfur (S) | |
| Lab | Other | |
| 43 | 1.17 | -0.638 |
| 43 | 1.14 | 0.000 |
| Median | 1.14 | 0.000 |
| Std Dev | 1.10 | 1.000 |

| | | |
|--------------------------------------|--------------|--------------|
| 111 | 1.06 | 2.042 |
| 145.XX Total Sulfur (S) | | |
| Lab | Total Method | |
| 43 | 1.17 | -0.638 |
| 43 | 1.14 | 0.000 |
| Median | 1.14 | 0.000 |
| Std Dev | 1.10 | 1.000 |
| 111 | 1.06 | 2.042 |
| 151.30 Total Arsenic | | |
| Lab | ICP | |
| 43 | 19.25 | -1.077 |
| 43 | 19.25 | -1.077 |
| Std Dev | 19.09 | -1.000 |
| 61 | 17.20 | -0.096 |
| 24 | 17.00 | 0.000 |
| Median | 17.00 | 0.000 |
| 61 | 16.45 | 0.263 |
| Std Dev | 14.91 | 1.000 |
| 9 | 14.40 | 1.244 |
| 31 | 13.15 | 1.843 |
| 151.XX Total Arsenic | | |
| Lab | Total Method | |
| 43 | 19.25 | -1.077 |
| 43 | 19.25 | -1.077 |
| Std Dev | 19.09 | -1.000 |
| 61 | 17.20 | -0.096 |
| 24 | 17.00 | 0.000 |
| Median | 17.00 | 0.000 |
| 61 | 16.45 | 0.263 |
| Std Dev | 14.91 | 1.000 |
| 9 | 14.40 | 1.244 |
| 31 | 13.15 | 1.843 |
| 165.99 Acid Soluble Boron | | |
| Lab | PPM | Other |
| 24 | 55.40 | 0.000 |
| Median | 55.40 | 0.000 |
| 65.XX, ppm Acid Soluble Boron | | |
| Lab | PPM | Total Method |
| 24 | 55.40 | 0.000 |

| | | |
|-----------------------------|---------------------------------|--------------|
| Median | 55.40 | 0.000 |
| 181.30 Total Cadmium | | |
| Lab | PPM | ICP |
| 9 | 4.50 | -1.856 |
| Std Dev | 3.65 | -1.000 |
| 43 | 3.34 | -0.683 |
| 43 | 3.32 | -0.662 |
| Median | 2.66 | 0.000 |
| 61 | 2.00 | 0.662 |
| 61 | 2.00 | 0.662 |
| 111 | 2.00 | 0.662 |
| 181.99 Total Cadmium | | |
| Lab | Other | |
| 24 | 3.29 | 0.000 |
| Median | 3.29 | 0.000 |
| 181.XX Total Cadmium | | |
| Lab | PPM | Total Method |
| 9 | 4.50 | -1.224 |
| Std Dev | 4.28 | -1.000 |
| 43 | 3.34 | -0.046 |
| 43 | 3.32 | -0.025 |
| 24 | 3.29 | 0.000 |
| Median | 3.29 | 0.000 |
| Std Dev | 2.30 | 1.000 |
| 61 | 2.00 | 1.305 |
| 61 | 2.00 | 1.305 |
| 111 | 2.00 | 1.305 |
| 190.00 Aluminum | | |
| Lab | %Al ₂ O ₃ | ICP |
| 32 | 1.33 | -2.501 |
| 9 | 1.32 | -1.965 |
| 14 | 1.30 | -1.429 |
| 14 | 1.30 | -1.251 |
| Std Dev | 1.29 | -1.000 |
| 61 | 1.27 | -0.179 |
| 24 | 1.26 | 0.000 |
| 24 | 1.26 | 0.000 |
| 32 | 1.26 | 0.000 |
| 34 | 1.26 | 0.000 |
| Median | 1.26 | 0.000 |

| | | |
|------------------------------|---------------------------------|-------------------|
| 23 | 1.26 | 0.179 |
| 23 | 1.26 | 0.179 |
| Std Dev | 1.23 | 1.000 |
| 61 | 1.23 | 1.072 |
| 43 | 1.17 | 3.395 |
| 43 | 1.15 | 3.931 |
| 111 | 0.83 | 15.544 |
| 190.99 Aluminum | | |
| Lab | %Al ₂ O ₃ | Atomic Absorption |
| 31 | 1.29 | 0.000 |
| Median | 1.29 | 0.000 |
| 190.XX Aluminum | | |
| Lab | %Al ₂ O ₃ | Total Method |
| 32 | 1.33 | -2.421 |
| 9 | 1.32 | -1.902 |
| 14 | 1.30 | -1.383 |
| 14 | 1.30 | -1.210 |
| Std Dev | 1.29 | -1.000 |
| 31 | 1.29 | -0.865 |
| 61 | 1.27 | -0.173 |
| 24 | 1.26 | 0.000 |
| 24 | 1.26 | 0.000 |
| 32 | 1.26 | 0.000 |
| 34 | 1.26 | 0.000 |
| Median | 1.26 | 0.000 |
| 23 | 1.26 | 0.173 |
| 23 | 1.26 | 0.173 |
| Std Dev | 1.23 | 1.000 |
| 61 | 1.23 | 1.037 |
| 43 | 1.17 | 3.285 |
| 43 | 1.15 | 3.804 |
| 111 | 0.83 | 15.043 |
| 191.30 Total Chromium | | |
| Lab | ICP | |
| 31 | 111.20 | -1.360 |
| 61 | 110.00 | -1.122 |
| Std Dev | 109.39 | -1.000 |
| 61 | 106.50 | -0.427 |
| 9 | 104.35 | 0.000 |
| Median | 104.35 | 0.000 |
| 43 | 102.00 | 0.467 |

| | | |
|-----------------------------------|-------------------|--------------|
| 43 | 101.00 | 0.665 |
| Std Dev | 99.31 | 1.000 |
| 111 | 96.50 | 1.558 |
| 191.99 Total Chromium | | |
| Lab | PPM | Other |
| 24 | 104.00 | 0.000 |
| Median | 104.00 | 0.000 |
| 191.XX Total Chromium | | |
| Lab | PPM | Total Method |
| 31 | 111.20 | -1.674 |
| 61 | 110.00 | -1.388 |
| Std Dev | 108.37 | -1.000 |
| 61 | 106.50 | -0.554 |
| 9 | 104.35 | -0.042 |
| Median | 104.18 | 0.000 |
| 24 | 104.00 | 0.042 |
| 43 | 102.00 | 0.518 |
| 43 | 101.00 | 0.756 |
| Std Dev | 99.98 | 1.000 |
| 111 | 96.50 | 1.828 |
| 202.30 Acid Soluble Cobalt | | |
| Lab | PPM | ICP |
| 43 | | |
| 202.99 Acid Soluble Cobalt | | |
| Lab | Other | |
| 24 | 4.11 | 0.000 |
| Median | 4.11 | 0.000 |
| 202.XX Acid Soluble Cobalt | | |
| Lab | PPM | Total Method |
| 43 | 5.00 | 0.000 |
| 43 | 5.00 | 0.000 |
| 61 | 5.00 | 0.000 |
| 61 | 5.00 | 0.000 |
| Median | 5.00 | 0.000 |
| 24 | 4.11 | 0.398 |
| 221.00 Acid Soluble Copper | | |
| Lab | Atomic Absorption | |
| 219 | 1.73 | 0.000 |
| Median | 1.73 | 0.000 |

| 221.30 Acid Soluble Copper | | | |
|----------------------------|------|--------|--|
| Lab | PPM | ICP | |
| 61 | <0.4 | 0.000 | |
| 61 | <0.4 | 0.000 | |
| 111 | 5.50 | -2.680 | |
| Std Dev | 2.68 | -1.000 | |
| 43 | 1.00 | 0.000 | |
| 43 | 1.00 | 0.000 | |
| Median | 1.00 | 0.000 | |

| 221.99 Acid Soluble Copper | | | |
|----------------------------|------|-------|--|
| Lab | PPM | Other | |
| 24 | 0.45 | 0.000 | |
| Median | 0.45 | 0.000 | |

| 221.XX Acid Soluble Copper | | | |
|----------------------------|------|--------------|--|
| Lab | PPM | Total Method | |
| 61 | <0.4 | 0.000 | |
| 61 | <0.4 | 0.000 | |
| 111 | 5.50 | -4.776 | |
| Std Dev | 1.94 | -1.000 | |
| 43 | 1.00 | 0.000 | |
| 43 | 1.00 | 0.000 | |
| Median | 1.00 | 0.000 | |
| 24 | 0.45 | 0.584 | |

| 241.30 Acid Soluble Iron | | | |
|--------------------------|---------------------------------|--------|--|
| Lab | %Fe ₂ O ₃ | ICP | |
| 32 | 1.87 | -2.312 | |
| 32 | 1.86 | -2.102 | |
| 61 | 1.82 | -1.261 | |
| 24 | 1.81 | -1.051 | |
| Std Dev | 1.81 | -1.000 | |
| 24 | 1.80 | -0.841 | |
| 34 | 1.80 | -0.841 | |
| 23 | 1.77 | -0.210 | |
| 23 | 1.77 | -0.210 | |
| Median | 1.76 | 0.000 | |
| 9 | 1.75 | 0.210 | |
| 14 | 1.75 | 0.210 | |
| 14 | 1.75 | 0.210 | |
| 111 | 1.74 | 0.420 | |
| 43 | 1.74 | 0.525 | |

| | | |
|----|------|-------|
| 43 | 1.74 | 0.525 |
| 61 | 1.74 | 0.525 |
| 31 | 1.73 | 0.736 |

| 241.99 Acid Soluble Iron | | | |
|--------------------------|---------------------------------|-------|--|
| Lab | %Fe ₂ O ₃ | Other | |
| 219 | 1.74 | 0.000 | |
| Median | 1.74 | 0.000 | |

| 241.XX Acid Soluble Iron | | | |
|--------------------------|---------------------------------|--------------|--|
| Lab | %Fe ₂ O ₃ | Total Method | |
| 32 | 1.87 | -2.503 | |
| 32 | 1.86 | -2.294 | |
| 61 | 1.82 | -1.460 | |
| 24 | 1.81 | -1.251 | |
| 24 | 1.80 | -1.043 | |
| 34 | 1.80 | -1.043 | |
| Std Dev | 1.80 | -1.000 | |
| 23 | 1.77 | -0.417 | |
| 23 | 1.77 | -0.417 | |
| 9 | 1.75 | 0.000 | |
| 14 | 1.75 | 0.000 | |
| 14 | 1.75 | 0.000 | |
| Median | 1.75 | 0.000 | |
| 111 | 1.74 | 0.209 | |
| 219 | 1.74 | 0.250 | |
| 43 | 1.74 | 0.313 | |
| 43 | 1.74 | 0.313 | |
| 61 | 1.74 | 0.313 | |
| 219 | 1.73 | 0.480 | |
| 31 | 1.73 | 0.521 | |

| 251.30 Total Lead | | | |
|-------------------|------|--------|--|
| Lab | PPM | ICP | |
| 43 | 3.05 | -0.749 | |
| 43 | 2.95 | -0.680 | |
| 9 | 1.96 | 0.000 | |
| Median | 1.96 | 0.000 | |
| 61 | 1.00 | 0.660 | |
| 61 | 1.00 | 0.660 | |

| 251.99 Total Lead | | | |
|-------------------|------|-------|--|
| Lab | PPM | Other | |
| 24 | 1.22 | 0.000 | |

| | | |
|--------|------|-------|
| Median | 1.22 | 0.000 |
|--------|------|-------|

| 251.XX Total Lead | | | |
|-------------------|------|--------------|--|
| Lab | PPM | Total Method | |
| 43 | 3.05 | -1.187 | |
| 43 | 2.95 | -1.106 | |
| Std Dev | 2.82 | -1.000 | |
| 9 | 1.96 | -0.301 | |
| Median | 1.59 | 0.000 | |
| 24 | 1.22 | 0.301 | |
| 61 | 1.00 | 0.480 | |
| 61 | 1.00 | 0.480 | |

| 261.11 Acid Soluble Manganese | | | |
|-------------------------------|--------|-------------------|--|
| Lab | PPM | Atomic Absorption | |
| 219 | 290.75 | 0.000 | |
| Median | 290.75 | 0.000 | |

| 261.30 Acid Soluble Manganese | | | |
|-------------------------------|--------|--------|--|
| Lab | PPM | ICP | |
| 9 | 347.50 | -1.472 | |
| Std Dev | 328.50 | -1.000 | |
| 31 | 288.20 | 0.000 | |
| Median | 288.20 | 0.000 | |
| Std Dev | 247.90 | 1.000 | |
| 111 | 239.50 | 1.208 | |

| 261.99 Acid Soluble Manganese | | | |
|-------------------------------|--------|--------|--|
| Lab | PPM | Other | |
| 43 | 305.00 | -1.258 | |
| 43 | 305.00 | -1.258 | |
| Std Dev | 301.46 | -1.000 | |
| 61 | 290.00 | -0.164 | |
| Median | 287.75 | 0.000 | |
| 61 | 285.50 | 0.164 | |
| 24 | 282.00 | 0.419 | |
| 219 | 275.70 | 0.879 | |

| 261.XX Acid Soluble Manganese | | | |
|-------------------------------|--------|--------------|--|
| Lab | PPM | Total Method | |
| 9 | 347.50 | -4.216 | |
| 43 | 305.00 | -1.148 | |
| 43 | 305.00 | -1.148 | |
| Std Dev | 302.95 | -1.000 | |

| | | |
|---------|--------|--------|
| 219 | 290.75 | -0.119 |
| 61 | 290.00 | -0.065 |
| Median | 289.10 | 0.000 |
| 31 | 288.20 | 0.065 |
| 61 | 285.50 | 0.260 |
| 24 | 282.00 | 0.513 |
| 219 | 275.70 | 0.967 |
| Std Dev | 275.25 | 1.000 |
| 111 | 239.50 | 3.581 |

| 281.30 Total Mercury | | | |
|----------------------|------|-------|--|
| Lab | PPM | ICP | |
| 24 | 0.17 | 0.000 | |
| Median | 0.17 | 0.000 | |

| 281.XX Total Mercury | | | |
|----------------------|------|--------------|--|
| Lab | PPM | Total Method | |
| 24 | 0.17 | 0.000 | |
| Median | 0.17 | 0.000 | |

| 289.30 Total Molybdenum | | | |
|-------------------------|-----|-----|--|
| Lab | PPM | ICP | |
| 43 | | | |

| 289.99 Total Molybdenum | | | |
|-------------------------|------|-------|--|
| Lab | PPM | Other | |
| 24 | 9.80 | 0.000 | |
| Median | 9.80 | 0.000 | |

| 289.XX Total Molybdenum | | | |
|-------------------------|------|--------------|--|
| Lab | PPM | Total Method | |
| 24 | 9.80 | -1.914 | |
| Std Dev | 9.14 | -1.000 | |
| 43 | 9.00 | -0.801 | |
| 43 | 8.85 | -0.592 | |
| Median | 8.43 | 0.000 | |
| 61 | 8.00 | 0.592 | |
| 111 | 8.00 | 0.592 | |
| Std Dev | 7.71 | 1.000 | |
| 61 | 7.50 | 1.288 | |

| 291.30 Total Nickel | | | |
|---------------------|-----|-----|--|
| Lab | PPM | ICP | |
| 61 | | | |

| 291.99 | Total Nickel | |
|--------|--------------|-------|
| Lab | PPM | Other |
| 24 | 17.40 | 0.000 |
| Median | 17.40 | 0.000 |

| 291.XX | Total Nickel | |
|--------|--------------|--------------|
| Lab | PPM | Total Method |

| 301.30 | Total Selenium | |
|---------|----------------|--------|
| Lab | PPM | ICP |
| 24 | 0.43 | -2.436 |
| Std Dev | 0.25 | -1.000 |
| 61 | 0.13 | 0.000 |
| Median | 0.13 | 0.000 |
| 61 | 0.10 | 0.244 |

| 301.XX | Total Selenium | |
|---------|----------------|-------------|
| Lab | PPM | Total Mthod |
| 24 | 0.43 | -2.436 |
| Std Dev | 0.25 | -1.000 |
| 61 | 0.13 | 0.000 |
| Median | 0.13 | 0.000 |
| 61 | 0.10 | 0.244 |

| 311.99 | Sodium | |
|---------|--------------------|--------|
| Lab | %Na ₂ O | Other |
| 111 | 0.28 | -9.380 |
| 24 | 0.22 | -1.340 |
| Std Dev | 0.22 | -1.000 |
| 61 | 0.22 | -0.670 |
| 23 | 0.21 | 0.000 |
| 23 | 0.21 | 0.000 |
| 24 | 0.21 | 0.000 |
| Median | 0.21 | 0.000 |
| 61 | 0.21 | 0.670 |
| Std Dev | 0.20 | 1.000 |
| 43 | 0.18 | 4.661 |
| 43 | 0.17 | 4.869 |

| 311.XX | Sodium | |
|---------|--------------------|--------------|
| Lab | %Na ₂ O | Total Method |
| 111 | 0.28 | -9.380 |
| 24 | 0.22 | -1.340 |
| Std Dev | 0.22 | -1.000 |

| | | |
|---------|------|--------|
| 61 | 0.22 | -0.670 |
| 23 | 0.21 | 0.000 |
| 23 | 0.21 | 0.000 |
| 24 | 0.21 | 0.000 |
| Median | 0.21 | 0.000 |
| 61 | 0.21 | 0.670 |
| Std Dev | 0.20 | 1.000 |
| 43 | 0.18 | 4.661 |
| 43 | 0.17 | 4.869 |

| 321.00 | Acid Soluble Zinc | |
|---------|-------------------|--------|
| Lab | Atomic Absorption | |
| 219 | 40.33 | -1.340 |
| Std Dev | 35.22 | -1.000 |
| Median | 20.17 | 0.000 |
| Std Dev | 5.13 | 1.000 |
| 77 | 0.02 | 1.340 |

| 321.30 | Acid Soluble Zinc | |
|---------|-------------------|---------|
| Lab | PPM | ICP |
| 111 | 472.00 | -72.208 |
| Std Dev | 49.53 | -1.000 |
| 9 | 44.45 | -0.143 |
| 24 | 43.60 | 0.000 |
| Median | 43.60 | 0.000 |
| Std Dev | 37.67 | 1.000 |
| 61 | 36.50 | 1.197 |
| 61 | 36.00 | 1.281 |

| 321.99 | Acid Soluble Zinc | |
|---------|-------------------|--------|
| Lab | Other | |
| 43 | 42.00 | -0.439 |
| 43 | 41.00 | 0.000 |
| Median | 41.00 | 0.000 |
| Std Dev | 38.72 | 1.000 |
| 219 | 35.90 | 2.241 |

| 321.XX | Acid Soluble Zinc | |
|---------|-------------------|--------------|
| Lab | PPM | Total Method |
| 111 | 472.00 | -81.695 |
| Std Dev | 45.94 | -1.000 |
| 9 | 44.45 | -0.717 |
| 24 | 43.60 | -0.556 |
| 43 | 42.00 | -0.253 |

| | | |
|---------|-------|--------|
| 43 | 41.00 | -0.063 |
| Median | 40.67 | 0.000 |
| 219 | 40.33 | 0.063 |
| 61 | 36.50 | 0.789 |
| 61 | 36.00 | 0.884 |
| 219 | 35.90 | 0.903 |
| Std Dev | 35.39 | 1.000 |
| 77 | 0.02 | 7.698 |

| 325.10 | Fluoride | |
|--------|----------|-----------|
| Lab | % | Electrode |
| 32 | 2.14 | -1.481 |
| 24 | 2.07 | -0.564 |
| 23 | 2.07 | -0.494 |
| 32 | 2.07 | -0.494 |
| 23 | 2.05 | -0.282 |
| 31 | 2.03 | 0.000 |
| 275 | 2.03 | 0.000 |
| 275 | 2.03 | 0.000 |
| Median | 2.03 | 0.000 |
| 111 | 2.03 | 0.071 |
| 24 | 1.97 | 0.846 |
| 34 | 1.90 | 1.834 |
| 14 | 1.82 | 2.962 |
| 14 | 1.82 | 2.962 |

| 325.99 | Fluoride | |
|--------|----------|--------|
| Lab | % | Other |
| 61 | 2.36 | -1.054 |
| 61 | 2.24 | 0.000 |
| Median | 2.24 | 0.000 |
| 9 | 2.06 | 1.626 |

| 325.XX | Fluoride | |
|--------|----------|--------------|
| Lab | % | Total Method |
| 61 | 2.36 | -7.796 |
| 61 | 2.24 | -4.873 |
| 32 | 2.14 | -2.315 |
| 24 | 2.07 | -0.731 |
| 23 | 2.07 | -0.609 |
| 32 | 2.07 | -0.609 |
| 9 | 2.06 | -0.365 |
| 23 | 2.05 | -0.244 |
| Median | 2.04 | 0.000 |

| | | |
|-----|------|-------|
| 31 | 2.03 | 0.244 |
| 275 | 2.03 | 0.244 |
| 275 | 2.03 | 0.244 |
| 111 | 2.03 | 0.365 |
| 24 | 1.97 | 1.705 |
| 34 | 1.90 | 3.411 |
| 14 | 1.82 | 5.360 |
| 14 | 1.82 | 5.360 |

| 291.XX | Total Nickel | |
|--------|--------------|--------------|
| Lab | PPM | Total Method |
| 24 | | 17.4 |
| 61 | | 17 |
| Median | | 16.7 |
| 9 | | 16.45 |
| 43 | | 16 |
| 43 | | 16 |