

AFPC

Sample

2010-07

Grade

10-50-0

| | AOAC Ref. | Method # | # of Labs. | Grand Median | Std Dev |
|---|------------|----------|------------|--------------|---------|
| AMMONIACAL NITROGEN | | | | | |
| Ammoniacal Nitrogen, MgO distillation | 920.03 | 001.10 | 3 | 10.83 | 0.41 |
| Ammoniacal Nitrogen, Other | | 001.99 | 11 | 10.71 | 0.07 |
| Method Group 001.XX PCT | | | 13 | 10.71 | 0.14 |
| Nitrogen from Urea, Urease(as N) | 959.03 | 005.00 | 1 | 10.78 | 0.00 |
| TOTAL NITROGEN | | | | | |
| Total Nitrogen, Salicylic | 955.04d | 010.12 | 1 | 10.66 | 0.00 |
| Total Nitrogen, Combustion | 993.13 | 010.60 | 27 | 10.66 | 0.14 |
| Total Nitrogen, Other | | 010.99 | 3 | 10.77 | 0.97 |
| Method Group 010.XX PCT | | | 31 | 10.67 | 0.17 |
| TOTAL PHOSPHATE | | | | | |
| Total Phosphate, Gravimetric Quimociac | | 020.10 | 3 | 51.50 | 0.39 |
| Total Phosphate, Spectrometric | 978.02 | 020.20 | 22 | 51.39 | 0.15 |
| Total Phosphate, Alka. Quimociac | 955.04d | 020.30 | 1 | 50.66 | 0.00 |
| Total Phosphate, ICP, Lithium | 970.02 | 020.50 | 1 | 51.44 | 0.00 |
| Total Phosphate, Other | 993.13 | 020.99 | 2 | 50.88 | 0.58 |
| Method Group 020.XX PCT | | | 28 | 51.40 | 0.32 |
| INSOLUBLE PHOSPHATE | | | | | |
| Insoluble Phosphate, Spectrometric | 963.03C(b) | 030.20 | 11 | 0.62 | 0.16 |
| Insoluble Phosphate, Alka. Quimociac | 963.03C(c) | 030.30 | 1 | 0.59 | 0.00 |
| Insoluble Phosphate, Automated | 978.01 | 030.40 | 1 | 0.61 | 0.00 |
| Insoluble Phosphate, ICP | | 030.50 | 1 | 0.59 | 0.00 |
| Insoluble Phosphate, Other | | 030.99 | 2 | 0.26 | 0.03 |
| Method Group 030.XX PCT | | | 16 | 0.59 | 0.15 |
| INDIRECT AVAILABLE PHOSPHATE | | | | | |
| Indirect Available Phosphate, Spectrometric | 960.02 | 040.20 | 12 | 50.70 | 0.20 |
| Indirect Available Phosphate, ICP | | 040.50 | 1 | 50.90 | 0.00 |
| Indirect Available Phosphate, Other | | 040.99 | 1 | 50.74 | 0.00 |

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|---|---------|--------|----|-------|------|
| Method Group 040.XX PCT | | | 14 | 50.74 | 0.23 |
| DIRECT AVAILABLE PHOSPHATE | | | | | |
| Direct Available Phosphate, Gravimetric Quimociac | 960.03E | 041.10 | 4 | 51.26 | 0.72 |
| Direct Available Phosphate, Spectrometric | 960.03D | 041.20 | 1 | 50.20 | 0.00 |
| Direct Available Phosphate, Automated | 978.01 | 041.40 | 6 | 50.62 | 0.89 |
| Direct Available Phosphate, ICP | | 041.50 | 5 | 50.42 | 0.96 |
| Direct Available Phosphate, EDTA Extract | 993.01 | 041.60 | 2 | 50.77 | 0.27 |
| Direct Available Phosphate, Other | | 041.99 | 2 | 50.62 | 0.61 |
| Method Group 041.XX PCT | | | 20 | 50.53 | 1.01 |
| WATER SOLUBLE PHOSPHATE | | | | | |
| Water Soluble Phosphate, Spectrometric | 970.01 | 048.20 | 13 | 44.24 | 0.13 |
| Water Soluble Phosphate, Alka. Quimociac | 964.04 | 048.30 | 1 | 43.48 | 0.00 |
| Water Soluble Phosphate, Other | | 048.99 | 2 | 44.42 | 0.23 |
| Method Group 048.XX PCT | | | 16 | 44.21 | 0.20 |
| SOLUBLE POTASH AS K₂O | | | | | |
| Soluble Potash, ICP(Oxalate) | | 050.50 | 2 | 0.27 | 0.00 |
| Soluble Potash, ICP(Citrate) | | 050.51 | 1 | 0.29 | 0.00 |
| Soluble Potash, Other | | 050.99 | 5 | 0.28 | 0.03 |
| Method Group 050.XX PCT | | | 8 | 0.28 | 0.02 |
| FREE WATER | | | | | |
| Free Water, Vacuum Oven | 965.08B | 060.00 | 16 | 2.64 | 0.25 |
| Free Water, Vacuum Desiccate | 965.08A | 060.10 | 3 | 2.50 | 0.18 |
| Method Group 060.XX PCT | | | 18 | 2.60 | 0.31 |
| ACID SOLUBLE CALCIUM AS CaO | | | | | |
| Acid Soluble Calcium, ICP | | 101.30 | 15 | 0.77 | 0.04 |
| Method Group 101.XX PCT | | | 15 | 0.77 | 0.05 |
| ACID SOLUBLE MAGNESIUM AS MgO | | | | | |
| Acid Soluble Magnesium, ICP | | 121.30 | 15 | 1.64 | 0.07 |
| Method Group 121.XX PCT | | | 15 | 1.64 | 0.08 |
| WATER SOLUBLE MAGNESIUM | | | | | |
| Water Soluble Magnesium, Atomic Absorption | 965.09 | 131.00 | 1 | 0.09 | 0.00 |
| Method Group 131.XX PCT | | | 1 | 0.09 | 0.00 |

SULFATE SULFUR (S)

AFPC Check Sample
07-2010

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|--|-----------|--------|----|------|-------|
| Sulfur, Gravimetric | 980.02(a) | 144.01 | 3 | 1.23 | 0.01 |
| Sulfur, Spectrometric | | 144.70 | 3 | 1.19 | 0.65 |
| Sulfur, Other | | 144.99 | 7 | 1.17 | 0.03 |
| Method Group 144.XX PCT | | | 13 | 1.19 | 0.05 |
| TOTAL SULFUR (S) | | | | | |
| Sulfur, Other | | 145.99 | 4 | 1.11 | 0.07 |
| Method Group 145.XX PCT | | | 4 | 1.11 | 0.08 |
| TOTAL ARSENIC | | | | | |
| Total Arsenic, ICP | 980.02(b) | 151.02 | 5 | 11 | 5.3 |
| Method Group 151.XX PPM | | | 5 | 11 | 6.5 |
| ACID SOLUBLE BORON | | | | | |
| Acid Soluble Boron, Spectrometric | 982.02 | 165.00 | 1 | 304 | 0.0 |
| Acid Soluble Boron, Other | | 165.99 | 2 | 31 | 8.8 |
| Method Group 165.XX PPM | | | 3 | 43 | 129.3 |
| TOTAL CADMIUM | | | | | |
| Total Cadmium, ICP | | 181.30 | 5 | 4 | 0.3 |
| Total Cadmium, Other | | 181.99 | 1 | 6 | 0.0 |
| Method Group 181.XX PPM | | | 6 | 4 | 0.7 |
| ALUMINUM AS Al₂O₃ | | | | | |
| ICP, % | | | 13 | 1.51 | 0.04 |
| Water Soluble Chlorine, Other, % | | 190.99 | 1 | 1.53 | 0.00 |
| Method Group 190.XX PCT | | | 14 | 1.51 | 0.04 |
| TOTAL CHROMIUM | | | | | |
| Total Chromium, ICP | | 191.30 | 7 | 135 | 2.4 |
| Total Chromium, Other | | 191.99 | 1 | 58 | 0.0 |
| Method Group 191.XX PPM | | | 8 | 134 | 3.8 |
| ACID SOLUBLE COBALT | | | | | |
| Acid Soluble Cobalt, ICP | | 202.30 | 5 | 4 | 0.2 |
| Acid Soluble Cobalt, Other | | 202.99 | 1 | 4 | 0.0 |
| Method Group 202.XX PPM | | | 6 | 4 | 0.3 |
| ACID SOLUBLE COPPER | | | | | |
| Acid Soluble Copper, ICP | | 221.30 | 6 | 2 | 3.7 |
| Acid Soluble Copper, Other | | 221.99 | 1 | 0 | 0.0 |

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|---|---------|--------|----|------|------|
| Method Group 221.XX PPM | | | 7 | 2 | 5.4 |
| ACID SOLUBLE IRON AS Fe₂O₃ | | | | | |
| Acid Soluble Iron, ICP | | 241.30 | 15 | 3.14 | 0.06 |
| Method Group 241.XX PCT | | | 15 | 3.14 | 0.07 |
| TOTAL LEAD | | | | | |
| Total Lead, ICP | | 251.30 | 4 | 5 | 0.5 |
| Total Lead, Other | | 251.99 | 1 | 20 | 0.0 |
| Method Group 251.XX PPM | | | 5 | 5 | 2.5 |
| ACID SOLUBLE MANGANESE | | | | | |
| Acid Soluble Manganese, ICP | 972.02a | 261.30 | 6 | 277 | 20.0 |
| Acid Soluble Manganese, Other | | 261.99 | 3 | 286 | 10.3 |
| Method Group 261.XX PPM | | | 9 | 286 | 22.3 |
| TOTAL MOLYBDENUM | | | | | |
| Total Molybdenum, ICP | | 289.30 | 6 | 16 | 0.2 |
| Total Molybdenum, Other | | 289.99 | 1 | 7 | 0.0 |
| Method Group 289.XX PPM | | | 7 | 16 | 1.0 |
| TOTAL NICKEL | | | | | |
| Total Nickel, ICP | | 291.30 | 6 | 17 | 1.5 |
| Total Nickel, Other | | 291.99 | 1 | 11 | 0.0 |
| Method Group 291.XX PPM | | | 7 | 16 | 1.8 |
| TOTAL SELENIUM | | | | | |
| Total Selenium, ICP | | 301.30 | 2 | 1 | 0.4 |
| Method Group 301.XX PPM | | | 2 | 1 | 0.4 |
| SODIUM AS Na₂O | | | | | |
| Sodium, Atomic Absorbtion | 983.04 | 311.00 | 1 | 0.25 | 0.00 |
| Sodium, Other | | 311.99 | 7 | 0.26 | 0.02 |
| Method Group 311.XX PCT | | | 8 | 0.26 | 0.03 |
| ACID SOLUBLE ZINC | | | | | |
| Acid Soluble Zinc, ICP | | 321.30 | 6 | 42.8 | 17.8 |
| Acid Soluble Zinc, Other | | 321.99 | 2 | 1.4 | 0.4 |
| Method Group 321.XX % | | | 8 | 41.7 | 19.1 |
| FLUORIDE | | | | | |
| Volumetric | | 325.10 | 11 | 2.06 | 0.19 |
| AFPC Check Sample | | | | | |
| 07-2010 | | | | | |

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|-------------------------|--------|----|------|------|
| Distilled/Electrode | 325.99 | 4 | 2.00 | 0.28 |
| Method Group 325.XX PCT | | 15 | 2.06 | 0.23 |
