

AFPC

Sample

2011-06

Grade

11-52-0

| | AOAC Ref. | Method # | # of Labs. | Grand Median | Std Dev |
|---------------------------------------------|------------|----------|------------|--------------|---------|
| AMMONIACAL NITROGEN | | | | | |
| Ammoniacal Nitrogen, MgO distillation | 920.03 | 001.10 | 1 | 11.26 | 0.00 |
| Ammoniacal Nitrogen, Other | | 001.99 | 8 | 11.65 | 0.03 |
| Method Group 001.XX PCT | | | 9 | 11.65 | 0.07 |
| TOTAL NITROGEN | | | | | |
| Total Nitrogen, Combustion | 993.13 | 010.60 | 8 | 11.58 | 0.19 |
| Total Nitrogen, Other | | 010.99 | 1 | 11.68 | 0.00 |
| Method Group 010.XX PCT | | | 9 | 11.63 | 0.23 |
| TOTAL PHOSPHATE | | | | | |
| Total Phosphate, Spectrometric | 978.02 | 020.20 | 13 | 53.71 | 0.38 |
| Total Phosphate, ICP | 970.03 | 020.40 | 1 | 53.75 | 0.00 |
| Method Group 020.XX PCT | | | 14 | 53.73 | 0.43 |
| INSOLUBLE PHOSPHATE | | | | | |
| Insoluble Phosphate, Spectrometric | 963.03C(b) | 030.20 | 10 | 0.52 | 0.19 |
| Insoluble Phosphate, Alka. Quimociac | 963.03C(c) | 030.30 | 1 | 0.14 | 0.00 |
| Insoluble Phosphate, Automated | 978.01 | 030.40 | 2 | 0.52 | 0.03 |
| Method Group 030.XX PCT | | | 13 | 0.48 | 0.12 |
| INDIRECT AVAILABLE PHOSPHATE | | | | | |
| Indirect Available Phosphate, Spectrometric | 960.02 | 040.20 | 10 | 53.12 | 0.19 |
| Indirect Available Phosphate, Automated | 960.02 | 040.40 | 1 | 53.33 | 0.00 |
| Indirect Available Phosphate, Other | | 040.99 | 1 | 53.49 | 0.00 |
| Method Group 040.XX PCT | | | 12 | 53.16 | 0.35 |
| DIRECT AVAILABLE PHOSPHATE | | | | | |
| Direct Available Phosphate, EDTA Extract | 993.01 | 041.60 | 1 | 53.88 | 0.00 |
| Method Group 041.XX PCT | | | 1 | 53.88 | 0.00 |
| WATER SOLUBLE PHOSPHATE | | | | | |
| Water Soluble Phosphate, Spectrometric | 970.01 | 048.20 | 12 | 48.76 | 0.46 |
| Water Soluble Phosphate, Other | | 048.99 | 1 | 48.56 | 0.00 |

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|------------------------------------------------|-----------|--------|----|-------|------|
| Method Group 048.XX PCT | | | 13 | 48.73 | 0.49 |
| SOLUBLE POTASH AS K₂O | | | | | |
| Soluble Potash, ICP(Oxalate) | 050.50 | | 2 | 0.22 | 0.00 |
| Soluble Potash, Other | 050.99 | | 4 | 0.20 | 0.02 |
| Method Group 050.XX PCT | | | 6 | 0.21 | 0.01 |
| FREE WATER | | | | | |
| Free Water, Vacuum Oven | 965.08B | 060.00 | 11 | 0.73 | 0.16 |
| Free Water, Vacuum Desiccate | 965.08A | 060.10 | 2 | 0.76 | 0.00 |
| Method Group 060.XX PCT | | | 13 | 0.75 | 0.18 |
| ACID SOLUBLE CALCIUM AS CaO | | | | | |
| Acid Soluble Calcium, ICP | 101.30 | | 12 | 0.28 | 0.03 |
| Method Group 101.XX PCT | | | 12 | 0.28 | 0.04 |
| ACID SOLUBLE MAGNESIUM AS MgO | | | | | |
| Acid Soluble Magnesium, ICP | 121.30 | | 12 | 0.74 | 0.03 |
| Method Group 121.XX PCT | | | 12 | 0.74 | 0.04 |
| SULFATE SULFUR (S) | | | | | |
| Sulfur, Gravimetric | 980.02(a) | 144.01 | 2 | 1.53 | 0.00 |
| Sulfur, Spectrometric | | 144.70 | 2 | 1.49 | 0.00 |
| Sulfur, Other | | 144.99 | 7 | 1.50 | 0.11 |
| Method Group 144.XX PCT | | | 11 | 1.50 | 0.05 |
| TOTAL ARSENIC | | | | | |
| Total Arsenic, ICP | 980.02(b) | 151.02 | 3 | 12 | 2.7 |
| Method Group 151.XX PPM | | | 3 | 12 | 3.3 |
| ACID SOLUBLE BORON | | | | | |
| Acid Soluble Boron, Other | 165.99 | | 1 | 25 | 0.0 |
| Method Group 165.XX PPM | | | 1 | 25 | 0.0 |
| TOTAL CADMIUM | | | | | |
| Total Cadmium, ICP | 181.30 | | 3 | 3 | 0.4 |
| Total Cadmium, Other | 181.99 | | 1 | 4 | 0.0 |
| Method Group 181.XX PPM | | | 4 | 3 | 0.6 |
| ALUMINUM AS Al₂O₃ | | | | | |
| ICP, % | | | 11 | 1.80 | 0.04 |
| Water Soluble Chlorine, Other, % | 190.99 | | 1 | 1.69 | 0.00 |

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|---------------------------------------------------------|----------------|----|------|------|
| Method Group 190.XX PCT | | 12 | 1.79 | 0.05 |
| TOTAL CHROMIUM | | | | |
| Total Chromium, ICP | 191.30 | 4 | 95 | 90.8 |
| Total Chromium, Other | 191.99 | 1 | 90 | 0.0 |
| Method Group 191.XX PPM | | 5 | 95 | 0.5 |
| ACID SOLUBLE COBALT | | | | |
| Acid Soluble Cobalt, ICP | 202.30 | 2 | 3 | 0.0 |
| Acid Soluble Cobalt, Other | 202.99 | 1 | 3 | 0.0 |
| Method Group 202.XX PPM | | 3 | 3 | 0.2 |
| ACID SOLUBLE COPPER | | | | |
| Acid Soluble Copper, ICP | 221.30 | 2 | 4 | 0.0 |
| Acid Soluble Copper, Other | 221.99 | 1 | 0 | 0.0 |
| Method Group 221.XX PPM | | 3 | 4 | 0.8 |
| ACID SOLUBLE IRON AS Fe₂O₃ | | | | |
| Acid Soluble Iron, ICP | 241.30 | 12 | 1.34 | 0.03 |
| Method Group 241.XX PCT | | 12 | 1.34 | 0.04 |
| TOTAL LEAD | | | | |
| Total Lead, ICP | 251.30 | 2 | 0 | 0.0 |
| Total Lead, Other | 251.99 | 1 | 1 | 0.0 |
| Method Group 251.XX PPM | | 3 | 0 | 0.1 |
| ACID SOLUBLE MANGANESE | | | | |
| Acid Soluble Manganese, ICP | 972.02a 261.30 | 2 | 307 | 92.4 |
| Acid Soluble Manganese, Other | 261.99 | 3 | 426 | 8.0 |
| Method Group 261.XX PPM | | 5 | 426 | 19.1 |
| TOTAL MOLYBDENUM | | | | |
| Total Molybdenum, ICP | 289.30 | 2 | 20 | 0.2 |
| Total Molybdenum, Other | 289.99 | 1 | 23 | 0.0 |
| Method Group 289.XX PPM | | 3 | 21 | 1.2 |
| TOTAL NICKEL | | | | |
| Total Nickel, ICP | 291.30 | 3 | 13 | 0.4 |
| Total Nickel, Other | 291.99 | 1 | 12 | 0.0 |
| Method Group 291.XX PPM | | 4 | 13 | 0.5 |

TOTAL SELENIUM

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| | | | | | |
|----------------------------------|--------|--------|----|--------|------|
| Total Selenium, ICP | | 301.30 | 1 | | 0.0 |
| Method Group 301.XX PPM | | | 1 | 0 | 0.0 |
| SODIUM AS Na₂O | | | | | |
| Sodium, Atomic Absorbtion | 983.04 | 311.00 | 1 | 0.20 | 0.00 |
| Sodium, Other | | 311.99 | 5 | 0.21 | 0.01 |
| Method Group 311.XX PCT | | | 6 | 0.21 | 0.02 |
| ACID SOLUBLE ZINC | | | | | |
| Acid Soluble Zinc, ICP | | 321.30 | 4 | 185.00 | 5.97 |
| Method Group 321.XX % | | | 4 | 185.00 | 7.27 |
| FLUORIDE | | | | | |
| Volumetric | | 325.10 | 9 | 1.75 | 0.03 |
| Electrode | AFPC | 325.30 | 1 | 1.74 | 0.00 |
| Distilled/Electrode | | 325.99 | 2 | 1.73 | 0.03 |
| Method Group 325.XX PCT | | | 12 | 1.74 | 0.05 |