

MAGRUDER - Fertilizer Check Sample No. - 200409 Grade 13-13-13

- Pass 1 Results for 89 Labs - - Pass 2 Results for 89 Labs -

| Method | AOAC Ref. | Method Code | No. of Labs | Grand Avq. | Std. Dev. | Average Range of Dups | No. of Labs | Grand Avq. | Std. Dev. | Average Range of Dups |
|---|-----------|-------------|-------------|------------|-----------|-----------------------|-------------|------------|-----------|-----------------------|
| Ammoniacal Nitrogen, MgO Distillation . | 920.03 | 001.10 | 8 | 11.91 | 0.22 | 0.08 | 7 | 11.94 | 0.21 | 0.06 |
| Ammoniacal Nitrogen, Other | | 001.99 | 13 | 12.06 | 0.18 | 0.06 | 12 | 12.06 | 0.19 | 0.05 |
| Method Group 001.XX PCT | | | 21 | 12.00 | 0.21 | 0.07 | 19 | 12.02 | 0.20 | 0.05 |
| Nitrate Nitrogen, Jones Modified | 930.02 | 002.20 | 1 | 1.59 | 0.10 | 0.14 | 1 | 1.59 | 0.10 | 0.14 |
| Nitrate Nitrogen, Other | | 002.99 | 6 | 0.85 | 0.20 | 0.03 | 6 | 0.85 | 0.20 | 0.03 |
| Method Group 002.XX PCT | | | 7 | 0.96 | 0.33 | 0.05 | 7 | 0.96 | 0.33 | 0.05 |
| Percent Urea, Urease (as Urea) | 959.03 | 007.00 | 1 | 0.12 | 0.01 | 0.01 | 1 | 0.12 | 0.01 | 0.01 |
| Ammon & Nitrate N, Devarda | 892.01 | 009.10 | 6 | 12.93 | 0.22 | 0.04 | 6 | 12.93 | 0.22 | 0.04 |
| Ammon & Nitrate N, Other | | 009.99 | 1 | 12.65 | 0.04 | 0.06 | 1 | 12.65 | 0.04 | 0.06 |
| Method Group 009.XX PCT | | | 7 | 12.89 | 0.23 | 0.04 | 7 | 12.89 | 0.23 | 0.04 |
| Total Nitrogen, Modified Comprehensive | 978.02 | 010.11 | 5 | 12.74 | 0.17 | 0.06 | 5 | 12.74 | 0.17 | 0.06 |
| Total Nitrogen, Salicylic | 955.04D | 010.12 | 4 | 12.81 | 0.08 | 0.00 | 4 | 12.81 | 0.08 | 0.00 |
| Total Nitrogen, Raney | 970.03 | 010.16 | 1 | 13.07 | 0.00 | 0.00 | 1 | 13.07 | 0.00 | 0.00 |
| Total Nitrogen, Combustion | | 010.60 | 53 | 13.02 | 0.13 | 0.08 | 49 | 13.01 | 0.12 | 0.06 |
| Total Nitrogen, Other | | 010.99 | 5 | 12.88 | 0.24 | 0.07 | 5 | 12.88 | 0.24 | 0.07 |
| Method Group 010.XX PCT | | | 68 | 12.98 | 0.16 | 0.07 | 64 | 12.97 | 0.16 | 0.06 |
| Total Phosphate, Grav Quimociac | 962.02 | 020.10 | 7 | 14.03 | 0.17 | 0.02 | 7 | 14.03 | 0.17 | 0.02 |
| Total Phosphate, Spectrometric | 958.01 | 020.20 | 24 | 13.84 | 0.37 | 0.07 | 23 | 13.83 | 0.37 | 0.06 |
| Total Phosphate, Automated | 978.01 | 020.40 | 6 | 13.93 | 0.16 | 0.07 | 6 | 13.93 | 0.16 | 0.07 |
| Total Phosphate, ICP | | 020.50 | 6 | 13.68 | 0.59 | 0.10 | 7 | 13.93 | 0.84 | 0.09 |
| Total Phosphate, Other | | 020.99 | 1 | 12.90 | 0.04 | 0.05 | 1 | 12.90 | 0.04 | 0.05 |
| Method Group 020.XX PCT | | | 44 | 13.84 | 0.40 | 0.07 | 42 | 13.84 | 0.40 | 0.05 |
| Insoluble Phosphate, Grav Quimociac ... | 963.03C | 030.10 | 1 | 0.00 | 0.00 | 0.00 | 1 | 0.00 | 0.00 | 0.00 |
| Insoluble Phosphate, Spectrometric | 963.03C | 030.20 | 2 | 0.16 | 0.14 | 0.05 | 2 | 0.16 | 0.14 | 0.05 |
| Insoluble Phosphate, Automated | 978.01 | 030.40 | 3 | 0.06 | 0.03 | 0.01 | 3 | 0.06 | 0.03 | 0.01 |
| Insoluble Phosphate, ICP | | 030.50 | 1 | 0.28 | 0.01 | 0.02 | 1 | 0.28 | 0.01 | 0.02 |
| Insoluble Phosphate, Other | | 030.99 | 2 | 0.02 | 0.02 | 0.01 | 2 | 0.02 | 0.02 | 0.01 |
| Method Group 030.XX PCT | | | 9 | 0.09 | 0.11 | 0.02 | 8 | 0.07 | 0.09 | 0.01 |
| InDir Available Phosphate, Grav Quim .. | 960.02 | 040.10 | 1 | 14.05 | 0.00 | 0.00 | 1 | 14.05 | 0.00 | 0.00 |
| InDir Available Phosphate, Spectrometri | 960.02 | 040.20 | 2 | 13.80 | 0.14 | 0.12 | 2 | 13.80 | 0.14 | 0.12 |
| InDir Available Phosphate, Automated .. | 960.02 | 040.40 | 2 | 14.01 | 0.14 | 0.14 | 2 | 14.01 | 0.14 | 0.14 |
| InDir Available Phosphate, Other | | 040.99 | 3 | 13.81 | 0.07 | 0.06 | 3 | 13.81 | 0.07 | 0.06 |
| Method Group 040.XX PCT | | | 8 | 13.89 | 0.15 | 0.09 | 8 | 13.89 | 0.15 | 0.09 |
| Dir Available Phosphate, Grav Quimociac | 960.03E | 041.10 | 18 | 13.89 | 0.25 | 0.08 | 18 | 13.89 | 0.25 | 0.08 |
| Dir Available Phosphate, Spectrometric | 960.03D | 041.20 | 4 | 13.93 | 0.21 | 0.14 | 4 | 13.93 | 0.21 | 0.14 |
| Dir Available Phosphate, Automated | 978.01 | 041.40 | 3 | 13.90 | 0.20 | 0.10 | 3 | 13.90 | 0.20 | 0.10 |
| Dir Available Phosphate, ICP | | 041.50 | 7 | 13.89 | 0.30 | 0.20 | 7 | 13.89 | 0.30 | 0.20 |
| Dir Available Phosphate, EDTA Extract . | 993.01 | 041.60 | 12 | 13.86 | 0.15 | 0.10 | 11 | 13.87 | 0.13 | 0.07 |
| Method Group 041.XX PCT | | | 44 | 13.89 | 0.23 | 0.11 | 40 | 13.92 | 0.19 | 0.08 |

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|--|-----------|-------------|-------------|------------|-----------|-----------------------|-------------|------------|-----------|-----------------------|
| Water Soluble Phosphate, Spectrometric | 970.01 | 048.20 | 6 | 11.78 | 0.52 | 0.08 | 5 | 11.94 | 0.39 | 0.04 |
| Soluble Potash, STPB Oxalate | 958.02 | 050.00 | 21 | 13.62 | 0.17 | 0.08 | 20 | 13.63 | 0.16 | 0.06 |
| Soluble Potash, STPB Citrate | 969.04 | 050.10 | 1 | 13.21 | 0.01 | 0.01 | 1 | 13.21 | 0.01 | 0.01 |
| Soluble Potash, AA (Oxalate) | | 050.30 | 12 | 13.26 | 0.46 | 0.19 | 11 | 13.24 | 0.45 | 0.14 |
| Soluble Potash, AA (Citrate) | | 050.31 | 1 | 13.05 | 0.07 | 0.10 | 1 | 13.05 | 0.07 | 0.10 |
| Soluble Potash, ICP (Oxalate) | | 050.50 | 6 | 13.46 | 0.42 | 0.12 | 6 | 13.46 | 0.42 | 0.12 |
| Soluble Potash, ICP (Citrate) | | 050.51 | 7 | 13.47 | 0.09 | 0.09 | 7 | 13.47 | 0.09 | 0.09 |
| Soluble Potash, Flame (Oxalate) | 983.02(a) | 050.60 | 7 | 13.45 | 0.34 | 0.06 | 7 | 13.45 | 0.34 | 0.06 |
| Soluble Potash, Flame (Citrate) | 983.02(b) | 050.61 | 7 | 13.59 | 0.24 | 0.07 | 7 | 13.59 | 0.24 | 0.07 |
| Soluble Potash, Other | | 050.99 | 14 | 13.49 | 0.51 | 0.14 | 13 | 13.45 | 0.51 | 0.11 |
| Method Group 050.XX PCT | | | 80 | 13.49 | 0.39 | 0.11 | 75 | 13.48 | 0.38 | 0.09 |
| Free Water, Vacuum Oven | 965.08B | 060.00 | 9 | 0.79 | 0.14 | 0.06 | 8 | 0.77 | 0.14 | 0.04 |
| Free Water, Other | | 060.99 | 1 | 1.38 | 0.01 | 0.01 | 1 | 1.38 | 0.01 | 0.01 |
| Method Group 060.XX PCT | | | 10 | 0.85 | 0.23 | 0.05 | 9 | 0.84 | 0.23 | 0.04 |
| Acid Soluble Calcium, AA | 945.04 | 101.00 | 1 | 1.79 | 0.16 | 0.22 | 1 | 1.79 | 0.16 | 0.22 |
| Acid Soluble Calcium, ICP | | 101.30 | 10 | 0.41 | 0.03 | 0.01 | 10 | 0.41 | 0.03 | 0.01 |
| Method Group 101.XX PCT | | | 12 | 0.60 | 0.44 | 0.03 | 11 | 0.49 | 0.25 | 0.01 |
| Acid Soluble Magnesium, AA | 984.01 | 121.00 | 15 | 1.93 | 0.08 | 0.03 | 15 | 1.93 | 0.08 | 0.03 |
| Acid Soluble Magnesium, ICP | | 121.30 | 24 | 1.93 | 0.09 | 0.05 | 23 | 1.92 | 0.09 | 0.05 |
| Acid Soluble Magnesium, Titrimetric | 964.01 | 121.70 | 1 | 2.21 | 0.00 | 0.00 | 1 | 2.21 | 0.00 | 0.00 |
| Acid Soluble Magnesium, Other | | 121.99 | 1 | 2.05 | 0.07 | 0.10 | 1 | 2.05 | 0.07 | 0.10 |
| Method Group 121.XX PCT | | | 41 | 1.94 | 0.10 | 0.04 | 38 | 1.94 | 0.09 | 0.03 |
| Water Soluble Magnesium, AA | | 131.00 | 3 | 1.75 | 0.15 | 0.17 | 3 | 1.75 | 0.15 | 0.17 |
| Water Soluble Magnesium, ICP | | 131.30 | 3 | 1.38 | 0.43 | 0.07 | 3 | 1.38 | 0.43 | 0.07 |
| Method Group 131.XX PCT | | | 6 | 1.56 | 0.36 | 0.12 | 6 | 1.56 | 0.36 | 0.12 |
| Sulfur, Gravimetric | 980.02a | 144.01 | 16 | 11.70 | 0.20 | 0.07 | 15 | 11.68 | 0.18 | 0.05 |
| Sulfur, Gravimetric | 980.02b | 144.02 | 1 | 11.59 | 0.08 | 0.11 | 1 | 11.59 | 0.08 | 0.11 |
| Sulfur, Spectrometric | | 144.70 | 2 | 10.62 | 0.68 | 0.11 | 2 | 10.62 | 0.68 | 0.11 |
| Sulfur, Other | | 144.99 | 20 | 11.38 | 0.52 | 0.19 | 19 | 11.39 | 0.52 | 0.16 |
| Method Group 144.XX PCT | | | 40 | 11.46 | 0.50 | 0.15 | 38 | 11.48 | 0.48 | 0.11 |
| Arsenic, Atomic Absorption | | 151.00 | 1 | 3.26 | 0.17 | 0.24 | 1 | 3.26 | 0.17 | 0.24 |
| Arsenic, ICP | | 151.30 | 6 | 3.65 | 0.69 | 0.41 | 6 | 3.65 | 0.69 | 0.41 |
| Arsenic, Other | | 151.99 | 1 | 4.80 | 0.99 | 1.40 | 1 | 4.80 | 0.99 | 1.40 |
| Method Group 151.XX PPM | | | 8 | 3.75 | 0.78 | 0.51 | 8 | 3.75 | 0.78 | 0.51 |
| Acid Soluble Boron, Spectrometric | 982.01 | 165.00 | 14 | 0.139 | 0.009 | 0.004 | 13 | 0.139 | 0.009 | 0.003 |
| Acid Soluble Boron, Other | | 165.99 | 13 | 0.136 | 0.007 | 0.005 | 12 | 0.135 | 0.006 | 0.003 |
| Method Group 165.XX PCT | | | 27 | 0.137 | 0.008 | 0.005 | 25 | 0.137 | 0.008 | 0.003 |
| Water Soluble Boron, Spectrometric | 982.01 | 171.10 | 2 | 0.130 | 0.010 | 0.017 | 2 | 0.130 | 0.010 | 0.017 |
| Cadmium, Atomic Absorption | | 181.00 | 3 | 1.35 | 0.26 | 0.10 | 3 | 1.35 | 0.26 | 0.10 |

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|---|-----------|-------------|-------------|------------|-----------|-----------------------|-------------|------------|-----------|-----------------------|
| Cadmium, ICP | | 181.30 | 10 | 1.24 | 0.21 | 0.07 | 10 | 1.24 | 0.21 | 0.07 |
| Cadmium, Other | | 181.99 | 1 | 1.30 | 0.00 | 0.00 | 1 | 1.30 | 0.00 | 0.00 |
| Method Group 181.XX PPM | | | 14 | 1.26 | 0.21 | 0.07 | 13 | 1.23 | 0.18 | 0.05 |
| Water Soluble Chlorine, Titrimetric ... | 928.02 | 190.00 | 10 | 8.24 | 0.25 | 0.13 | 10 | 8.24 | 0.25 | 0.13 |
| Water Soluble Chlorine, Other | | 190.99 | 5 | 8.27 | 0.35 | 0.06 | 5 | 8.27 | 0.35 | 0.06 |
| Method Group 190.XX PCT | | | 15 | 8.25 | 0.28 | 0.11 | 14 | 8.22 | 0.26 | 0.09 |
| Chromium, ICP | | 191.30 | 11 | 65.12 | 6.72 | 1.87 | 11 | 65.12 | 6.72 | 1.87 |
| Chromium, Other | | 191.99 | 1 | 61.75 | 1.06 | 1.50 | 1 | 61.75 | 1.06 | 1.50 |
| Method Group 191.XX PPM | | | 12 | 64.84 | 6.50 | 1.84 | 12 | 64.84 | 6.50 | 1.84 |
| Acid Soluble Cobalt, ICP | 965.11 | 202.30 | 12 | 5.81 | 3.45 | 0.54 | 12 | 5.81 | 3.45 | 0.54 |
| Acid Soluble Cobalt, Other | | 202.99 | 1 | 7.90 | 1.13 | 1.60 | 1 | 7.90 | 1.13 | 1.60 |
| Method Group 202.XX PPM | | | 13 | 5.97 | 3.37 | 0.62 | 13 | 5.97 | 3.37 | 0.62 |
| Acid Soluble Copper, Atomic Absorption | 975.01 | 221.00 | 3 | 0.0695 | 0.0049 | 0.0073 | 3 | 0.0695 | 0.0049 | 0.0073 |
| Acid Soluble Copper, ICP | | 221.30 | 16 | 0.0612 | 0.0091 | 0.0032 | 16 | 0.0612 | 0.0091 | 0.0032 |
| Acid Soluble Copper, Other | | 221.99 | 1 | 0.0484 | 0.0020 | 0.0028 | 1 | 0.0484 | 0.0020 | 0.0028 |
| Method Group 221.XX PCT | | | 20 | 0.0618 | 0.0094 | 0.0038 | 20 | 0.0618 | 0.0094 | 0.0038 |
| Acid Soluble Iron, Atomic Absorption .. | 980.01 | 241.00 | 15 | 0.31 | 0.03 | 0.01 | 14 | 0.31 | 0.03 | 0.01 |
| Acid Soluble Iron, ICP | | 241.30 | 26 | 0.32 | 0.03 | 0.01 | 25 | 0.32 | 0.03 | 0.01 |
| Acid Soluble Iron, Other | | 241.99 | 2 | 0.28 | 0.01 | 0.00 | 2 | 0.28 | 0.01 | 0.00 |
| Method Group 241.XX PCT | | | 43 | 0.32 | 0.03 | 0.01 | 41 | 0.31 | 0.03 | 0.01 |
| Lead, Atomic Absorption | | 251.00 | 1 | 2.53 | 0.26 | 0.37 | 1 | 2.53 | 0.26 | 0.37 |
| Lead, ICP | | 251.30 | 7 | 3.38 | 0.68 | 0.37 | 7 | 3.38 | 0.68 | 0.37 |
| Lead, Other | | 251.99 | 1 | 2.95 | 0.21 | 0.30 | 1 | 2.95 | 0.21 | 0.30 |
| Method Group 251.XX PPM | | | 9 | 3.24 | 0.66 | 0.36 | 9 | 3.24 | 0.66 | 0.36 |
| Acid Soluble Manganese, AA | 972.02a | 261.00 | 14 | 0.287 | 0.022 | 0.008 | 13 | 0.289 | 0.020 | 0.006 |
| Acid Soluble Manganese, AA | 972.02b | 261.11 | 2 | 0.286 | 0.008 | 0.010 | 2 | 0.286 | 0.008 | 0.010 |
| Acid Soluble Manganese, ICP | 972.02a | 261.30 | 22 | 0.301 | 0.020 | 0.011 | 20 | 0.300 | 0.018 | 0.006 |
| Acid Soluble Manganese, ICP | 972.02b | 261.31 | 3 | 0.303 | 0.009 | 0.009 | 3 | 0.303 | 0.009 | 0.009 |
| Acid Soluble Manganese, Other | | 261.99 | 4 | 0.296 | 0.011 | 0.005 | 4 | 0.296 | 0.011 | 0.005 |
| Method Group 261.XX PCT | | | 45 | 0.296 | 0.020 | 0.010 | 43 | 0.295 | 0.019 | 0.007 |
| Mercury, Atomic Absorption | | 281.00 | 2 | 0.10 | 0.04 | 0.05 | 2 | 0.10 | 0.04 | 0.05 |
| Mercury, ICP | | 281.30 | 1 | 0.09 | 0.03 | 0.04 | 1 | 0.09 | 0.03 | 0.04 |
| Mercury, Other | | 281.99 | 1 | 0.10 | 0.00 | 0.00 | 1 | 0.10 | 0.00 | 0.00 |
| Method Group 281.XX PPM | | | 4 | 0.10 | 0.03 | 0.03 | 4 | 0.10 | 0.03 | 0.03 |
| Molybdenum, Atomic Absorption | | 289.00 | 1 | 6.80 | 0.85 | 1.20 | 1 | 6.80 | 0.85 | 1.20 |
| Molybdenum, ICP | | 289.30 | 10 | 7.02 | 1.54 | 0.30 | 10 | 7.02 | 1.54 | 0.30 |
| Molybdenum, Other | | 289.99 | 1 | 8.05 | 0.49 | 0.70 | 1 | 8.05 | 0.49 | 0.70 |
| Method Group 289.XX PPM | | | 12 | 7.08 | 1.44 | 0.41 | 12 | 7.08 | 1.44 | 0.41 |
| Nickel, ICP | | 291.30 | 10 | 40.62 | 6.98 | 1.41 | 10 | 40.62 | 6.98 | 1.41 |

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|---|------------------|--------------------|--------------------|-------------------|------------------|------------------------------|--------------------|-------------------|------------------|------------------------------|
| Nickel, Other | | 291.99 | 2 | 35.70 | 1.85 | 1.10 | 2 | 35.70 | 1.85 | 1.10 |
| Method Group 291.XX PPM | | | 12 | 39.80 | 6.65 | 1.36 | 12 | 39.80 | 6.65 | 1.36 |
| Selenium, Atomic Absorption | | 301.00 | 1 | 0.28 | 0.03 | 0.04 | 1 | 0.28 | 0.03 | 0.04 |
| Selenium, ICP | | 301.30 | 2 | 0.71 | 0.94 | 0.68 | 2 | 0.71 | 0.94 | 0.68 |
| Method Group 301.XX PPM | | | 3 | 0.57 | 0.76 | 0.47 | 3 | 0.57 | 0.76 | 0.47 |
| Sodium, Atomic Absorption | 983.04 | 311.00 | 1 | 0.45 | 0.01 | 0.01 | 1 | 0.45 | 0.01 | 0.01 |
| Sodium, Flame Photometric | 974.01 | 311.30 | 1 | 0.46 | 0.00 | 0.00 | 1 | 0.46 | 0.00 | 0.00 |
| Sodium, Other | | 311.99 | 8 | 0.47 | 0.03 | 0.02 | 7 | 0.47 | 0.03 | 0.01 |
| Method Group 311.XX PCT | | | 10 | 0.47 | 0.03 | 0.02 | 9 | 0.47 | 0.03 | 0.01 |
| Acid Soluble Zinc, Atomic Absorption .. | 975.02 | 321.00 | 19 | 0.449 | 0.033 | 0.010 | 18 | 0.447 | 0.033 | 0.009 |
| Acid Soluble Zinc, ICP | | 321.30 | 24 | 0.448 | 0.037 | 0.014 | 23 | 0.445 | 0.034 | 0.013 |
| Acid Soluble Zinc, Other | | 321.99 | 2 | 0.473 | 0.034 | 0.015 | 2 | 0.473 | 0.034 | 0.015 |
| Method Group 321.XX PCT | | | 45 | 0.450 | 0.035 | 0.013 | 44 | 0.448 | 0.033 | 0.012 |

Laboratory Averages & Accuracy Indexes

| Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | | |
|-----------------------------------|----------|-------|----------------------------|----------|-------|------------------------------|----------|-------|------------------------------|----------|------------------------------|-----------------------|----------|-------|-------|------|
| Meth: 001.10 PCT | | | Meth: 001.XX PCT | | | Meth: 002.XX PCT | | | Meth: 009.XX PCT | | | Meth: 010.60 PCT | | | | |
| <u>Ammoniacal Nitrogen</u> | | | <u>Ammoniacal Nitrogen</u> | | | <u>Nitrate Nitrogen</u> | | | <u>Ammon & Nitrate N</u> | | | <u>Total Nitrogen</u> | | | | |
| <u>MgO Distillation</u> | | | | | | | | | | | | <u>Combustion</u> | | | | |
| 288 | 12.17 | 1.10 | 362 | 12.24 | 1.07 | 029 | 1.59 | 1.95 | Avg | 12.89 | | 157 | 13.29 | 2.32 | | |
| 200 | 12.17 | 1.06 | 376 | 12.20 | .90 | 291 | 1.20 | .76 | 090 | 12.73 | -.71 | 389 | 13.20 R | 2.30 | | |
| 416 | 12.11 | .80 | 247 | 12.20 | .90 | 300 | 0.99 | .12 | 398 | 12.65 | -1.06 | 043 | 13.22 | 1.89 | | |
| Avg | 11.94 | | 289 | 12.18 | .77 | Avg | 0.96 | | 420 | 12.58 | -1.37 | 422 | 13.21 | 1.69 | | |
| 415 | 11.89 | -.20 | 288 | 12.17 | .77 | 393 | 0.80 | -.47 | Meth: 010.10 PCT | | | 057 | 13.07 R | 1.35 | | |
| 324 | 11.81 | -.60 | 200 | 12.17 | .72 | 220 | 0.74 | -.68 | <u>Total Nitrogen</u> | | | 073 | 13.09 R | 1.27 | | |
| 029 | 11.82 | -.82 | 096 | 12.14 | .62 | 360 | 0.74 | -.68 | <u>Reduced Iron</u> | | | 330 | 13.15 | 1.22 | | |
| 220 | 11.72 R | -1.21 | 320 | 12.12 | .49 | 398 | 0.64 | -.97 | 072 | 12.52 S | .00 | 049 | 13.14 | 1.09 | | |
| 309 | 11.60 | -1.57 | 416 | 12.11 | .44 | Meth: 007.00 PCT | | | Meth: 010.11 PCT | | | 409 | 13.13 | 1.04 | | |
| Meth: 001.99 PCT | | | 193 | 12.05 | .29 | Percent Urea | | | <u>Total Nitrogen</u> | | | 034 | 13.13 | 1.04 | | |
| <u>Ammoniacal Nitrogen</u> | | | Avg | 12.02 | | <u>Urease (as Urea)</u> | | | <u>Modified Comprehensi</u> | | | 023 | 13.14 | 1.02 | | |
| <u>Other</u> | | | 398 | 12.01 | -.13 | 247 | 0.12 | .71 | 322 | 13.03 | 1.71 | 025 | 13.13 | .93 | | |
| 234 | 13.00 S | 5.05 | 300 | 12.01 | -.54 | Meth: 009.10 PCT | | | 090 | 12.77 | .23 | 369 | 13.11 | .88 | | |
| 106 | 12.98 S | 4.98 | 415 | 11.89 | -.66 | <u>Ammon & Nitrate N</u> | | | Avg | 12.74 | | 024 | 13.12 | .85 | | |
| 418 | 12.80 S | 3.98 | 420 | 11.88 | -.78 | <u>Devarda</u> | | | 029 | 12.67 | -.57 | 055 | 13.05 | .66 | | |
| 393 | 12.24 | .98 | 291 | 11.82 | -1.06 | 391 | 14.50 S | 7.16 | 288 | 12.63 | -.74 | 041 | 13.05 | .39 | | |
| 362 | 12.24 | .95 | 324 | 11.81 | -1.09 | 258 | 13.19 | 1.19 | 309 | 12.60 | -.81 | 102 | 13.04 | .30 | | |
| 247 | 12.20 | .77 | 029 | 11.82 R | -1.24 | 200 | 13.07 | .62 | Meth: 010.12 PCT | | | 131 | 13.02 | .29 | | |
| 376 | 12.20 | .77 | 220 | 11.72 R | -1.71 | 392 | 13.05 | .57 | <u>Total Nitrogen</u> | | | 291 | 13.04 | .25 | | |
| 289 | 12.18 | .63 | 409 | 11.66 | -1.89 | 257 | 12.96 | .14 | <u>Salicylic</u> | | | 393 | 13.04 | .23 | | |
| 096 | 12.14 | .49 | 309 | 11.60 | -2.16 | Avg | 12.93 | | 102 | 12.87 | .74 | 232 | 13.03 | .16 | | |
| 320 | 12.12 | .33 | Meth: 002.20 PCT | | | 090 | 12.73 | -.91 | 185 | 12.85 | .52 | Avg | 13.01 | | | |
| Avg | 12.06 | | <u>Nitrate Nitrogen</u> | | | 420 | 12.58 | -1.59 | 211 | 12.84 | .34 | 028 | 13.01 | -.09 | | |
| 193 | 12.05 | -.27 | <u>Jones Modified</u> | | | Meth: 009.99 PCT | | | Avg | 12.81 | | 007 | 13.00 | -.12 | | |
| 398 | 12.01 | -.29 | 029 | 1.59 | .71 | <u>Ammon & Nitrate N</u> | | | 415 | 12.68 | -1.60 | 296 | 13.00 | -.17 | | |
| 300 | 12.01 R | -.64 | Meth: 002.99 PCT | | | <u>Other</u> | | | Meth: 010.16 PCT | | | 231 | 13.00 | -.17 | | |
| 420 | 11.88 | -1.01 | <u>Nitrate Nitrogen</u> | | | 398 | 12.65 | .71 | <u>Total Nitrogen</u> | | | 325 | 13.00 | -.21 | | |
| 291 | 11.82 | -1.31 | <u>Other</u> | | | Meth: 009.XX PCT | | | <u>Raney</u> | | | 177 | 13.01 | -.26 | | |
| 409 | 11.66 | -2.19 | 291 | 1.20 | 1.78 | <u>Ammon & Nitrate N</u> | | | 137 | 13.07 | .00 | 423 | 13.00 | -.34 | | |
| Meth: 001.XX PCT | | | 300 | 0.99 | .69 | 391 | | | 14.50 s | 7.13 | Meth: 010.60 PCT | | | 096 | 12.96 | -.46 |
| <u>Ammoniacal Nitrogen</u> | | | Avg | 0.85 | | 258 | | | 13.19 | 1.33 | <u>Total Nitrogen</u> | | | 247 | 13.01 | -.55 |
| 234 | 13.00 s | 4.94 | 393 | 0.80 | -.24 | 200 | | | 13.07 | .78 | <u>Combustion</u> | | | 351 | 12.95 | -.56 |
| 106 | 12.98 s | 4.87 | 220 | 0.74 | -.58 | 392 | | | 13.05 | .73 | 361 | 13.33 | 2.62 | 233 | 12.94 | -.67 |
| 418 | 12.80 s | 3.93 | 360 | 0.74 | -.58 | 257 | | | 12.96 | .32 | A=Analysis beyond 3-s limits | | | | | |
| 393 | 12.24 | 1.10 | 398 | 0.64 | -1.06 | Meth: 009.99 PCT | | | Meth: 010.60 PCT | | | | | | | |
| * X=Excluded from lab performance | | | S/s=Screened Outlier | | | R=Duplicate Range too large | | | A=Analysis beyond 3-s limits | | | | | | | |

Laboratory Averages & Accuracy Indexes

| Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index |
|---|----------|-------|-----------------------|----------|-------|------------------------|----------|--------|------------------------|----------|-------|------------------------|----------|-------|
| Meth: 010.60 PCT | | | Meth: 010.XX PCT | | | Meth: 010.XX PCT | | | Meth: 020.20 PCT | | | Meth: 020.50 PCT | | |
| <u>Total Nitrogen</u> | | | <u>Total Nitrogen</u> | | | <u>Total Nitrogen</u> | | | <u>Total Phosphate</u> | | | <u>Total Phosphate</u> | | |
| <u>Combustion</u> | | | | | | | | | <u>Spectrometric</u> | | | <u>ICP</u> | | |
| 376 | 12.95 | -.69 | 073 | 13.09 R | 1.11 | 009 | 12.93 | -.40 | 362 | 14.42 | 1.61 | 422 | 15.44 S | 1.79 |
| 042 | 12.95 | -.69 | 049 | 13.14 | 1.07 | 029 | 12.93 | -.40 | 390 | 14.28 R | 1.40 | 330 | 14.77 | 1.00 |
| 220 | 12.93 | -.71 | 023 | 13.14 | 1.04 | 354 | 12.93 | -.44 | 391 | 14.30 | 1.30 | Avg | 13.68 | |
| 027 | 12.92 | -.80 | 409 | 13.13 | 1.03 | 307 | 12.90 | -.54 | 234 | 14.13 | .87 | 361 | 13.81 | -.15 |
| 009 | 12.93 | -.84 | 034 | 13.13 | 1.03 | 406 | 12.89 | -.55 | 406 | 14.10 | .77 | 157 | 13.77 | -.20 |
| 029 | 12.93 | -.84 | 025 | 13.13 | .97 | 426 | 12.88 | -.58 | 257 | 14.10 | .75 | 423 | 13.53 | -.51 |
| 307 | 12.90 | -1.05 | 369 | 13.11 | .91 | 102 | 12.87 | -.64 | 258 | 14.09 | .73 | 426 | 13.22 | -.85 |
| 406 | 12.89 | -1.10 | 024 | 13.12 | .91 | 035 | 12.91 | -.73 | 231 | 14.08 | .68 | 389 | 13.00 | -1.11 |
| | | | 055 | 13.05 | .67 | 185 | 12.85 | -.76 | 392 | 14.04 | .57 | | | |
| | | | 137 | 13.07 | .63 | 262 | 12.90 | -.77 | 309 | 14.00 | .48 | Meth: 020.99 PCT | | |
| 095 | 12.96 R | -1.19 | 425 | 13.07 | .60 | 114 | 12.85 | -.79 | 425 | 14.00 | .48 | <u>Total Phosphate</u> | | |
| 035 | 12.91 | -1.22 | 300 | 12.99 | .54 | 377 | 12.85 | -.80 | 363 | 13.98 | .41 | <u>Other</u> | | |
| 262 | 12.90 | -1.28 | 041 | 13.05 | .52 | 360 | 12.85 | -.80 | 376 | 13.89 | .20 | 398 | 12.90 | .71 |
| 377 | 12.85 | -1.42 | 247 | 13.01 | .46 | 162 | 12.85 | -.81 | 200 | 13.84 | .10 | | | |
| 114 | 12.85 | -1.43 | 102 | 13.04 | .46 | 095 | 12.96 R | -.82 | Avg | 13.83 | | Meth: 020.XX PCT | | |
| 162 | 12.85 | -1.43 | 393 | 13.04 | .44 | 211 | 12.84 | -.85 | 418 | 13.83 X | -.01 | <u>Total Phosphate</u> | | |
| 360 | 12.85 | -1.44 | 291 | 13.04 | .43 | 090 | 12.77 | -1.27 | 220 | 13.81 | -.05 | 422 | 15.44 s | 4.03 |
| | | | 232 | 13.03 | .38 | 030 | 12.71 | -1.64 | 324 | 13.74 | -.27 | 330 | 14.77 | 2.34 |
| Meth: 010.99 PCT | | | 040 | 13.00 | .38 | 415 | 12.68 | -1.83 | 042 | 13.66 | -.50 | 362 | 14.42 | 1.45 |
| <u>Total Nitrogen</u> | | | 131 | 13.02 | .36 | 029 | 12.67 | -1.96 | 288 | 13.63 | -.55 | 390 | 14.28 R | 1.26 |
| <u>Other</u> | | | 322 | 13.03 | .35 | 288 | 12.63 | -2.20 | 232 | 13.61 | -.60 | 391 | 14.30 | 1.16 |
| 405 | 13.21 | 1.39 | 136 | 13.03 | .35 | 309 | 12.60 | -2.33 | 397 | 13.55 | -.80 | 416 | 14.23 | .97 |
| 300 | 12.99 | .56 | 177 | 13.01 | .31 | 420 | 12.59 | -2.43 | 420 | 13.18 | -1.76 | 193 | 14.20 | .94 |
| 354 | 12.93 | .30 | 423 | 13.00 | .27 | 072 | 12.52 s | -2.90 | 369 | 13.05 | -2.12 | 114 | 14.20 | .90 |
| Avg | 12.88 | | 325 | 13.00 | .23 | | | | 262 | 13.00 | -2.25 | 095 | 14.18 | .85 |
| 030 | 12.71 | -.74 | 324 | 12.98 | .22 | Meth: 020.10 PCT | | | | | | 234 | 14.13 | .77 |
| 420 | 12.59 | -1.27 | 028 | 13.01 | .22 | <u>Total Phosphate</u> | | | | | | 406 | 14.10 | .67 |
| | | | 007 | 13.00 | .19 | <u>Grav Quimociac</u> | | | Meth: 020.40 PCT | | | 257 | 14.10 | .66 |
| Meth: 010.XX PCT | | | 231 | 13.00 | .16 | 416 | 14.23 | 1.09 | <u>Total Phosphate</u> | | | 258 | 14.09 | .63 |
| <u>Total Nitrogen</u> | | | 296 | 13.00 | .16 | 114 | 14.20 | .93 | <u>Automated</u> | | | 231 | 14.08 | .59 |
| 361 | 13.33 | 2.23 | Avg | 12.97 | | 095 | 14.18 | .81 | 193 | 14.20 | 1.78 | 090 | 14.05 | .53 |
| 157 | 13.29 | 2.01 | 096 | 12.96 | -.06 | 090 | 14.05 | .09 | 320 | 14.00 | .43 | 392 | 14.04 | .49 |
| 389 | 13.20 R | 1.92 | 351 | 12.95 | -.15 | Avg | 14.03 | | 096 | 13.95 | .22 | 309 | 14.00 | .40 |
| 043 | 13.22 | 1.67 | 233 | 12.94 | -.22 | 313 | 13.96 | -.50 | Avg | 13.93 | | 320 | 14.00 | .40 |
| 422 | 13.21 | 1.54 | 220 | 12.93 | -.26 | 405 | 13.91 | -.71 | 247 | 13.89 | -.32 | 425 | 14.00 | .40 |
| 405 | 13.21 | 1.51 | 027 | 12.92 | -.33 | 157 | 13.73 | -1.74 | 409 | 13.80 | -.87 | 363 | 13.98 | .35 |
| 330 | 13.15 | 1.17 | 042 | 12.95 | -.34 | 300 | 11.22 s | -16.15 | 035 | 13.75 | -1.12 | 313 | 13.96 | .30 |
| 057 | 13.07 R | 1.13 | 376 | 12.95 | -.34 | | | | | | | | | |
| * X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits | | | | | | | | | | | | | | |

Laboratory Averages & Accuracy Indexes

| Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index |
|-----------------------------------|----------|-------|----------------------------|----------|-------|-----------------------------|----------|-------|------------------------------|----------|-------|------------------------------|----------|-------|
| Meth: 020.XX PCT | | | Meth: 030.40 PCT | | | Meth: 040.20 PCT | | | Meth: 041.10 PCT | | | Meth: 041.40 PCT | | |
| <u>Total Phosphate</u> | | | <u>Insoluble Phosphate</u> | | | <u>InDir Available Phos</u> | | | <u>Dir Available Phosph</u> | | | <u>Dir Available Phosph</u> | | |
| 096 | 13.95 | .29 | <u>Automated</u> | | | <u>Spectrometri</u> | | | <u>Grav Quimociac</u> | | | <u>Automated</u> | | |
| 405 | 13.91 | .18 | 193 | 0.10 | 1.26 | 289 | 13.91 | .87 | 211 | 14.27 | 1.51 | 027 | 12.82 S | -5.52 |
| 376 | 13.89 | .16 | Avg 0.06 | | | Avg 13.80 | | | 055 14.13 .93 | | | Meth: 041.50 PCT | | |
| 247 | 13.89 | .13 | 096 | 0.04 | -.56 | 363 13.69 -.87 | | | 040 14.12 .91 | | | Dir Available Phosph | | |
| Avg | 13.84 | | 409 | 0.03 | -.77 | Meth: 040.40 PCT | | | 177 14.03 .58 | | | ICP | | |
| 418 | 13.83 X | -.04 | Meth: 030.50 PCT | | | InDir Available Phos | | | 057 14.00 .56 | | | 291 14.46 1.86 | | |
| 220 | 13.81 | -.08 | <u>Insoluble Phosphate</u> | | | <u>Automated</u> | | | 260 13.97 .45 | | | 023 13.95 .42 | | |
| 200 | 13.84 | -.09 | ICP | | | 193 14.10 .98 | | | 296 13.97 .42 | | | 393 13.90 .18 | | |
| 361 | 13.81 | -.09 | 423 0.28 -.71 | | | Avg 14.01 | | | 233 13.97 .32 | | | Avg 13.89 | | |
| 409 | 13.80 | -.16 | Meth: 030.99 PCT | | | 096 13.91 -.73 | | | 041 13.95 .28 | | | 360 13.86 -.34 | | |
| 157 | 13.77 | -.19 | <u>Insoluble Phosphate</u> | | | Meth: 040.50 PCT | | | 029 13.94 .19 | | | 325 13.77 -.39 | | |
| 035 | 13.75 | -.23 | <u>Other</u> | | | InDir Available Phos | | | 131 13.92 .16 | | | 007 13.58 -1.07 | | |
| 157 | 13.73 | -.28 | 247 0.04 .88 | | | ICP | | | 102 13.92 .11 | | | 354 13.72 -1.19 | | |
| 324 | 13.74 | -.28 | Avg 0.02 | | | 423 13.25 S .00 | | | 049 13.86 -.24 | | | Meth: 041.60 PCT | | |
| 042 | 13.66 | -.49 | 376 0.00 -.85 | | | Meth: 040.99 PCT | | | 072 13.86 -.34 | | | Dir Available Phosph | | |
| 288 | 13.63 | -.54 | Meth: 030.XX PCT | | | InDir Available Phos | | | 009 13.79 -.54 | | | EDTA Extract | | |
| 232 | 13.61 | -.59 | <u>Insoluble Phosphate</u> | | | <u>Other</u> | | | 185 13.76 -.55 | | | 028 14.04 1.26 | | |
| 397 | 13.55 | -.77 | 363 0.29 R 2.49 | | | 376 13.89 1.22 | | | 254 13.35 -2.17 | | | 296 14.03 1.18 | | |
| 423 | 13.53 R | -.87 | 423 0.28 2.41 | | | Avg 13.81 | | | 009 13.79 -.54 | | | 177 13.91 .91 | | |
| 426 | 13.22 | -1.57 | 193 0.10 .39 | | | 220 13.77 -.52 | | | 185 13.76 -.55 | | | 043 13.95 .59 | | |
| 420 | 13.18 | -1.66 | Avg 0.07 | | | 409 13.77 -.86 | | | 254 13.35 -2.17 | | | 351 13.93 .42 | | |
| 369 | 13.05 | -1.99 | 220 0.04 -.31 | | | Meth: 040.XX PCT | | | 137 13.24 -2.60 | | | 095 13.92 .34 | | |
| 262 | 13.00 | -2.11 | 096 0.04 -.31 | | | InDir Available Phos | | | Meth: 041.20 PCT | | | 288 13.90 .32 | | |
| 389 | 13.00 | -2.13 | 247 0.04 -.35 | | | 376 13.89 -.31 | | | Dir Available Phosph | | | Avg 13.87 | | |
| 398 | 12.90 | -2.38 | 409 0.03 -.40 | | | 193 14.10 1.61 | | | Spectrometric | | | 397 13.84 -.30 | | |
| 300 | 11.22 s | -6.62 | 376 0.00 -.74 | | | 090 14.05 1.12 | | | 362 14.12 .90 | | | 034 13.74 -1.12 | | |
| Meth: 030.10 PCT | | | 090 0.00 -.74 | | | 289 13.91 .44 | | | 415 14.06 .59 | | | 377 13.69 -1.46 | | |
| <u>Insoluble Phosphate</u> | | | Meth: 040.10 PCT | | | 096 13.91 .32 | | | Avg 13.93 | | | 106 13.66 -1.57 | | |
| <u>Grav Quimociac</u> | | | InDir Available Phos | | | Avg 13.89 | | | 030 13.69 -1.48 | | | 073 13.71 R -2.02 | | |
| 090 | 0.00 | .00 | <u>Grav Quim</u> | | | 376 13.89 -.31 | | | Meth: 041.40 PCT | | | 024 13.05 s -6.11 | | |
| Meth: 030.20 PCT | | | 090 14.05 .00 | | | 220 13.77 -.79 | | | Dir Available Phosph | | | Meth: 041.XX PCT | | |
| <u>Insoluble Phosphate</u> | | | Meth: 040.10 PCT | | | 409 13.77 -.86 | | | Automated | | | <u>Dir Available Phosph</u> | | |
| <u>Spectrometric</u> | | | InDir Available Phos | | | 363 13.69 -1.39 | | | 131 14.13 1.16 | | | 291 14.46 2.77 | | |
| 363 | 0.29 | .88 | <u>Grav Quim</u> | | | 423 13.25 s -4.45 | | | Avg 13.90 | | | 211 14.27 1.82 | | |
| Avg | 0.16 | | 090 14.05 .00 | | | Meth: 040.10 PCT | | | 029 13.83 -.35 | | | 131 14.13 1.09 | | |
| 220 | 0.04 | -.85 | Meth: 040.10 PCT | | | InDir Available Phos | | | 025 13.74 -1.01 | | | A=Analysis beyond 3-s limits | | |
| * X=Excluded from lab performance | | | S/s=Screened Outlier | | | R=Duplicate Range too large | | | A=Analysis beyond 3-s limits | | | | | |

Laboratory Averages & Accuracy Indexes

| Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | |
|-----------------------------|----------|-------|---|----------|-------|-----------------------|----------|-------|------------------------|----------|-----------------------|------------------------|----------|---------|------|
| Meth: 041.XX PCT | | | Meth: 041.XX PCT | | | Meth: 050.00 PCT | | | Meth: 050.50 PCT | | | Meth: 050.61 PCT | | | |
| <u>Dir Available Phosph</u> | | | <u>Dir Available Phosph</u> | | | <u>Soluble Potash</u> | | | <u>Soluble Potash</u> | | | <u>Soluble Potash</u> | | | |
| 055 | 14.13 | 1.08 | 007 | 13.58 | -1.80 | <u>STPB Oxalate</u> | | | <u>ICP (Oxalate)</u> | | | <u>Flame (Citrate)</u> | | | |
| 362 | 14.12 | 1.06 | 354 | 13.72 R | -1.93 | 009 | 13.55 | -.51 | 324 | 13.88 | .99 | 024 | 13.85 | 1.09 | |
| 040 | 14.12 | 1.05 | 254 | 13.35 | -2.92 | 057 | 13.53 | -.64 | 418 | 13.65 X | .52 | 025 | 13.76 | .72 | |
| 415 | 14.06 | .72 | 137 | 13.24 A | -3.48 | 392 | 13.52 | -.73 | 106 | 13.62 | .38 | 028 | 13.73 | .59 | |
| 028 | 14.04 | .64 | 024 | 13.05 s | -4.45 | 296 | 13.50 | -.80 | 422 | 13.59 | .32 | 029 | 13.64 | .22 | |
| 057 | 14.00 | .64 | 322 | 12.97 s | -4.87 | 257 | 13.49 | -.86 | Avg | 13.46 | | Avg | 13.59 | | |
| 177 | 14.03 | .62 | 027 | 12.82 s | -5.65 | 049 | 13.46 R | -2.08 | 354 | 13.40 | -.30 | 035 | 13.58 | -.22 | |
| 023 | 13.95 | .61 | Meth: 048.20 PCT | | | 095 | 13.16 | -2.93 | 157 | 12.62 | -1.98 | 034 | 13.46 | -.60 | |
| 296 | 14.03 | .59 | Water Soluble Phosph | | | 072 | 13.04 s | -3.66 | Meth: 050.51 PCT | | | 041 | 13.13 | -2.00 | |
| 260 | 13.97 | .50 | <u>Spectrometric</u> | | | Meth: 050.10 PCT | | | <u>Soluble Potash</u> | | | Meth: 050.99 PCT | | | |
| 296 | 13.97 | .46 | 420 | 12.49 | 1.41 | <u>Soluble Potash</u> | | | <u>ICP (Citrate)</u> | | | <u>Soluble Potash</u> | | | |
| 233 | 13.97 | .30 | 096 | 12.13 | .47 | <u>STPB Citrate</u> | | | 361 | 13.57 | 1.14 | <u>Other</u> | | | |
| 041 | 13.95 | .27 | Avg | 11.94 | | 322 | 13.21 | -.71 | 007 | 13.51 | 1.13 | 390 | 14.35 | 1.78 | |
| 043 | 13.95 | .19 | 289 | 11.87 | -.18 | Meth: 050.30 PCT | | | 023 | 13.52 | 1.09 | 027 | 14.14 | 1.35 | |
| 131 | 13.92 | .16 | 193 | 11.85 | -.26 | <u>Soluble Potash</u> | | | Avg | 13.47 | | 330 | 13.97 R | 1.14 | |
| 029 | 13.94 | .13 | 362 | 11.37 | -1.47 | <u>AA (Oxalate)</u> | | | 393 | 13.46 | -.06 | 260 | 13.77 | .69 | |
| 351 | 13.93 | .09 | 363 | 10.98 R | -2.50 | 234 | 14.00 | 1.70 | 377 | 13.44 | -.36 | 360 | 13.65 | .40 | |
| 102 | 13.92 | .02 | Meth: 050.00 PCT | | | 351 | 13.51 R | 1.07 | 291 | 13.39 | -.94 | 325 | 13.59 | .28 | |
| Avg | 13.92 | | <u>Soluble Potash</u> | | | 369 | 13.62 | .85 | 389 | 13.38 | -1.32 | 300 | 13.59 | .27 | |
| 095 | 13.92 | -.08 | <u>STPB Oxalate</u> | | | 073 | 13.61 | .82 | 423 | 13.09 s | -4.39 | 289 | 13.51 | .12 | |
| 288 | 13.90 | -.21 | 233 | 14.33 s | 4.57 | 040 | 13.60 | .80 | Meth: 050.60 PCT | | | Avg | 13.45 | | |
| 393 | 13.90 | -.30 | 193 | 13.88 | 1.61 | 136 | 13.42 | .40 | <u>Soluble Potash</u> | | | 177 | 13.45 | -.11 | |
| 055 | 13.85 | -.37 | 231 | 13.84 | 1.31 | 137 | 13.33 | .21 | <u>Flame (Oxalate)</u> | | | 425 | 13.36 | -.41 | |
| 049 | 13.86 | -.38 | 391 | 13.80 | 1.07 | Avg | 13.24 | | 406 | 13.76 | .91 | 376 | 13.13 | -.64 | |
| 397 | 13.84 | -.42 | 102 | 13.77 | .89 | 262 | 12.95 | -.72 | 055 | 13.65 | .62 | 398 | 13.08 | -.74 | |
| 029 | 13.83 | -.44 | 114 | 13.73 | .85 | 397 | 12.91 | -.76 | 131 | 13.64 | .57 | 426 | 12.86 | -1.18 | |
| 072 | 13.86 | -.50 | 043 | 13.73 | .63 | 185 | 12.90 | -.87 | 200 | 13.54 | .28 | 232 | 12.42 | -2.04 | |
| 360 | 13.86 | -.59 | 220 | 13.66 | .60 | 095 | 12.72 | -1.16 | 288 | 13.47 | .12 | Meth: 050.XX PCT | | | |
| 177 | 13.91 | -.59 | 350 | 13.70 | .51 | 420 | 12.57 | -1.49 | Avg | 13.45 | | <u>Soluble Potash</u> | | | |
| 325 | 13.77 | -.75 | 211 | 13.66 | .18 | Meth: 050.31 PCT | | | 415 | 13.38 | -.22 | 030 | 14.57 | 2.88 | |
| 009 | 13.79 | -.79 | 090 | 13.64 | .08 | <u>Soluble Potash</u> | | | 309 | 12.70 | -2.20 | 233 | 14.33 R | 2.31 | |
| 185 | 13.76 | -.82 | Avg | 13.63 | | <u>AA (Citrate)</u> | | | Meth: 050.61 PCT | | | 390 | 14.35 | 2.29 | |
| 034 | 13.74 | -.98 | 258 | 13.61 | -.12 | 254 | | | 13.05 | -.71 | <u>Soluble Potash</u> | | | | |
| 025 | 13.74 | -1.09 | 416 | 13.61 | -.16 | Meth: 050.61 PCT | | | <u>Flame (Citrate)</u> | | | 027 | 14.14 | 1.72 | |
| 377 | 13.69 | -1.23 | 029 | 13.58 | -.32 | <u>Soluble Potash</u> | | | 330 | | | 13.97 R | 1.45 | | |
| 106 | 13.66 | -1.31 | 055 | 13.63 | -.40 | Meth: 050.61 PCT | | | 234 | | | 14.00 | 1.39 | | |
| 073 | 13.71 R | -1.55 | * X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits | | | 030 | | | 14.57 s | 4.17 | 351 | | | 13.51 R | 1.06 |

Laboratory Averages & Accuracy Indexes

| Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | | |
|--|----------|-------|-----------------------|----------|-------|-----------------------------|----------|-------|-----------------------------|----------|------------------------------|-----------------------------|----------|-------|------|------|
| Meth: 050.XX PCT | | | Meth: 050.XX PCT | | | Meth: 060.00 PCT | | | Meth: 101.30 PCT | | | Meth: 121.00 PCT | | | | |
| <u>Soluble Potash</u> | | | <u>Soluble Potash</u> | | | <u>Free Water</u> | | | <u>Acid Soluble Calcium</u> | | | <u>Acid Soluble Magnesi</u> | | | | |
| 193 | 13.88 | 1.05 | 392 | 13.52 | .12 | <u>Vacuum Oven</u> | | | <u>ICP</u> | | | <u>AA</u> | | | | |
| 324 | 13.88 | 1.04 | 057 | 13.53 | .11 | 362 | 0.97 | 1.44 | 035 | 4.56 s | 136.40 | 309 | 2.00 | .89 | | |
| 024 | 13.85 | .96 | 289 | 13.51 | .09 | 247 | 0.93 R | 1.36 | 422 | 1.26 s | 27.91 | 257 | 2.00 | .83 | | |
| 231 | 13.84 | .93 | 296 | 13.50 | .07 | 096 | 0.95 | 1.26 | 291 | 0.47 | 2.12 | 233 | 1.95 | .68 | | |
| 260 | 13.77 | .85 | 257 | 13.49 | .05 | 193 | 0.84 | .50 | 307 | 0.44 | .92 | 040 | 1.95 | .37 | | |
| 391 | 13.80 | .84 | Avg | 13.48 | | Avg | 0.77 | | 009 | 0.43 | .52 | 392 | 1.94 | .20 | | |
| 102 | 13.77 | .76 | 393 | 13.46 | -.06 | 363 | 0.76 | -.28 | 232 | 0.41 | .40 | 177 | 1.94 | .14 | | |
| 025 | 13.76 | .73 | 288 | 13.47 | -.11 | 409 | 0.75 | -.45 | 420 | 0.41 | .21 | Avg | 1.93 | | | |
| 406 | 13.76 | .72 | 034 | 13.46 | -.12 | 007 | 0.71 | -.45 | Avg | 0.41 | | 137 | 1.92 | -.12 | | |
| 114 | 13.73 | .69 | 377 | 13.44 | -.13 | 320 | 0.65 | -.92 | 102 | 0.40 | -.42 | 043 | 1.91 | -.28 | | |
| 028 | 13.73 | .65 | 177 | 13.45 | -.17 | 416 | 0.56 | -1.51 | 320 | 0.40 | -.43 | 289 | 1.92 | -.48 | | |
| 043 | 13.73 | .64 | 136 | 13.42 | -.20 | Meth: 060.99 PCT | | | 065 | 0.38 | -.97 | 095 | 1.89 | -.65 | | |
| 350 | 13.70 | .57 | 291 | 13.39 | -.27 | <u>Free Water</u> | | | 423 | 0.38 | -1.01 | 029 | 1.84 | -1.11 | | |
| 418 | 13.65 X | .53 | 415 | 13.38 | -.29 | <u>Other</u> | | | 131 | 0.38 | -1.16 | 262 | 1.82 | -1.40 | | |
| 220 | 13.66 | .52 | 389 | 13.38 | -.35 | 398 | 1.38 | .71 | Meth: 101.XX PCT | | | 391 | 1.79 | -1.84 | | |
| 360 | 13.65 | .46 | 354 | 13.40 | -.38 | Meth: 060.XX PCT | | | <u>Acid Soluble Calcium</u> | | | Meth: 121.30 PCT | | | | |
| 055 | 13.65 | .46 | 137 | 13.33 | -.42 | <u>Free Water</u> | | | 035 | 4.56 s | 16.19 | <u>Acid Soluble Magnesi</u> | | | | |
| 211 | 13.66 | .45 | 425 | 13.36 | -.60 | 398 | 1.38 | 2.29 | 409 | 1.79 R | 5.19 | <u>ICP</u> | | | | |
| 131 | 13.64 | .42 | 322 | 13.21 | -.73 | 247 | 0.93 R | .58 | 422 | 1.26 | 3.07 | 324 | 3.08 s | 12.97 | | |
| 090 | 13.64 | .41 | 049 | 13.46 R | -.77 | 362 | 0.97 | .56 | Avg | 0.49 | | 422 | 2.72 s | 8.91 | | |
| 055 | 13.63 | .41 | 095 | 13.16 | -.87 | 096 | 0.95 | .46 | 291 | 0.47 | -.07 | 409 | 2.10 | 1.92 | | |
| 029 | 13.64 | .40 | 376 | 13.13 | -.94 | 193 | 0.84 | .04 | 307 | 0.44 | -.20 | 042 | 2.01 R | 1.62 | | |
| 369 | 13.62 | .37 | 041 | 13.13 | -.97 | Avg | 0.84 | | 009 | 0.43 | -.24 | 102 | 2.07 | 1.61 | | |
| 106 | 13.62 | .35 | 398 | 13.08 | -1.08 | 363 | 0.76 | -.39 | 232 | 0.41 | -.29 | 354 | 2.03 | 1.17 | | |
| 416 | 13.61 | .34 | 423 | 13.09 | -1.08 | 409 | 0.75 | -.47 | 420 | 0.41 | -.30 | 231 | 2.01 | 1.16 | | |
| 073 | 13.61 | .34 | 254 | 13.05 | -1.16 | 007 | 0.71 | -.55 | 102 | 0.40 | -.36 | 389 | 1.98 | 1.02 | | |
| 258 | 13.61 | .33 | 072 | 13.04 | -1.19 | 320 | 0.65 | -.82 | 320 | 0.40 | -.36 | 291 | 1.98 | .74 | | |
| 040 | 13.60 | .31 | 262 | 12.95 | -1.47 | 416 | 0.56 | -1.17 | 065 | 0.38 | -.42 | 057 | 1.99 | .73 | | |
| 422 | 13.59 | .29 | 397 | 12.91 | -1.55 | Meth: 101.00 PCT | | | 423 | 0.38 | -.42 | 423 | 1.97 | .53 | | |
| 035 | 13.58 | .29 | 185 | 12.90 R | -1.64 | <u>Acid Soluble Calcium</u> | | | 131 | 0.38 | -.44 | 023 | 1.95 | .33 | | |
| 325 | 13.59 | .28 | 426 | 12.86 | -1.67 | <u>AA</u> | | | Meth: 121.00 PCT | | | 096 | 1.95 | .23 | | |
| 300 | 13.59 | .27 | 095 | 12.72 | -2.04 | 409 | | | 1.79 | -.71 | <u>Acid Soluble Magnesi</u> | | | 330 | 1.94 | .20 |
| 029 | 13.58 | .26 | 309 | 12.70 | -2.08 | Meth: 101.00 PCT | | | <u>AA</u> | | | Avg | 1.92 | | | |
| 007 | 13.51 | .25 | 157 | 12.62 | -2.29 | 409 | | | 1.79 | -.71 | 200 | 2.99 s | 13.46 | 420 | 1.91 | -.17 |
| 023 | 13.52 | .23 | 420 | 12.57 | -2.44 | Meth: 101.00 PCT | | | 200 | | | 2.99 s | 13.46 | 307 | 1.92 | -.23 |
| 361 | 13.57 | .22 | 232 | 12.42 | -2.82 | Acid Soluble Calcium | | | 028 | | | 2.07 | 1.82 | 065 | 1.90 | -.30 |
| 009 | 13.55 | .16 | | | | AA | | | 193 | | | 2.03 | 1.33 | 360 | 1.91 | -.45 |
| 200 | 13.54 | .15 | | | | 409 | | | 1.79 | -.71 | A=Analysis beyond 3-s limits | | | | | |
| * X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits | | | | | | | | | | | | | | | | |

Laboratory Averages & Accuracy Indexes

| Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index |
|-----------------------------------|----------|--------|-----------------------------|----------|-------|-----------------------------|----------|--------|------------------------------|----------|--------|------------------|----------|-------|
| Meth: 121.30 PCT | | | Meth: 121.XX PCT | | | Meth: 131.00 PCT | | | Meth: 144.01 PCT | | | Meth: 144.99 PCT | | |
| <u>Acid Soluble Magnesi</u> | | | <u>Acid Soluble Magnesi</u> | | | <u>Water Soluble Magnes</u> | | | <u>Sulfur</u> | | | <u>Sulfur</u> | | |
| <u>ICP</u> | | | <u>AA</u> | | | <u>Gravimetric</u> | | | <u>Gravimetric</u> | | | <u>Other</u> | | |
| 426 | 1.88 | -.53 | 389 | 1.98 R | .88 | 029 | 1.84 | .66 | 073 | 11.55 | -.73 | 376 | 11.27 | -.29 |
| 232 | 1.87 | -.66 | 309 | 2.00 | .64 | Avg | 1.75 | | 102 | 11.57 | -.75 | 422 | 11.22 | -.32 |
| 106 | 1.87 | -.68 | 257 | 2.00 | .59 | 289 | 1.67 | -.68 | 040 | 11.52 | -.88 | 131 | 11.21 | -.36 |
| 035 | 1.86 | -.73 | 291 | 1.98 | .56 | 220 | 1.74 | -1.27 | 106 | 11.52 | -.89 | 289 | 11.20 | -.38 |
| 157 | 1.85 | -.90 | 057 | 1.99 | .55 | Meth: 131.30 PCT | | | 095 | 11.50 | -.99 | 320 | 11.24 R | -.87 |
| 009 | 1.81 | -1.29 | 233 | 1.95 | .54 | Water Soluble Magnes | | | 193 | 11.47 | -1.19 | 389 | 10.90 | -.96 |
| 320 | 1.81 | -1.60 | 423 | 1.97 | .38 | <u>ICP</u> | | | 233 | 10.65 s | -6.13 | 423 | 10.75 | -1.26 |
| 393 | 1.76 | -1.94 | 040 | 1.95 | .27 | 420 | 1.89 | 1.19 | Meth: 144.02 PCT | | | 232 | 10.62 | -1.52 |
| 095 | 1.48 s | -5.02 | 023 | 1.95 | .21 | Avg | 1.38 | | <u>Sulfur</u> | | | 262 | 10.20 | -2.29 |
| 131 | 0.04 s | -21.30 | 330 | 1.94 | .11 | 291 | 1.29 | -.19 | <u>Gravimetric</u> | | | 291 | 9.77 s | -3.14 |
| Meth: 121.70 PCT | | | 096 | 1.95 | .08 | 393 | 0.95 | -1.02 | Avg | 11.59 | | Meth: 144.XX PCT | | |
| <u>Titrimetric</u> | | | 177 | 1.94 | .03 | Meth: 131.XX PCT | | | 029 | 11.59 | -.71 | <u>Sulfur</u> | | |
| 415 | 2.21 | .71 | Avg | 1.94 | | <u>Water Soluble Magnes</u> | | | 114 | 9.65 S | -24.94 | 300 | 12.20 | 1.50 |
| Meth: 121.99 PCT | | | 392 | 1.94 | -.17 | 420 | 1.89 | .89 | Meth: 144.70 PCT | | | 220 | 12.18 | 1.50 |
| <u>Acid Soluble Magnesi</u> | | | 137 | 1.92 | -.21 | 029 | 1.84 | .78 | <u>Sulfur</u> | | | 043 | 12.09 | 1.25 |
| <u>Other</u> | | | 307 | 1.92 | -.30 | 220 | 1.74 | .70 | <u>Spectrometric</u> | | | 137 | 12.02 | 1.11 |
| 234 | 2.05 | .71 | 420 | 1.91 | -.31 | 289 | 1.67 | .32 | 393 | 11.21 | .87 | 055 | 11.99 | 1.07 |
| Avg | 2.05 | | 043 | 1.91 | -.33 | 360 | 1.91 | -.52 | Avg | 10.62 | | 354 | 11.96 | 1.02 |
| 398 | 1.50 S | -7.78 | 065 | 1.90 | -.44 | 095 | 1.89 | -.64 | 200 | 10.04 X | -.86 | 296 | 11.80 | .65 |
| Meth: 121.XX PCT | | | 289 | 1.92 | -.45 | 426 | 1.88 | -.65 | Meth: 144.99 PCT | | | 288 | 11.79 | .64 |
| <u>Acid Soluble Magnesi</u> | | | 360 | 1.91 | -.52 | 232 | 1.87 | -.76 | <u>Sulfur</u> | | | 405 | 11.75 | .55 |
| 324 | 3.08 s | 12.09 | 095 | 1.89 | -.64 | 106 | 1.87 | -.79 | <u>Other</u> | | | 023 | 11.73 | .50 |
| 200 | 2.99 s | 11.20 | 426 | 1.88 | -.65 | 035 | 1.86 | -.85 | 300 | 12.20 | 1.58 | 324 | 11.72 | .49 |
| 422 | 2.72 s | 8.26 | 232 | 1.87 | -.76 | 157 | 1.85 | -1.01 | 220 | 12.18 | 1.57 | 330 | 11.72 | .48 |
| 415 | 2.21 | 2.88 | 106 | 1.87 | -.79 | 029 | 1.84 | -1.03 | 354 | 11.96 | 1.13 | 028 | 11.71 | .46 |
| 409 | 2.10 | 1.66 | 035 | 1.86 | -.85 | 137 | 12.02 | 1.84 | 029 | 11.96 | 1.13 | 157 | 11.69 | .42 |
| 042 | 2.01 R | 1.44 | 262 | 1.82 | -1.28 | 009 | 1.81 | -1.37 | 023 | 11.73 | .65 | 029 | 11.66 | .36 |
| 028 | 2.07 | 1.42 | 009 | 1.81 | -1.37 | 320 | 1.81 R | -1.64 | 330 | 11.72 | .63 | 360 | 11.60 | .33 |
| 102 | 2.07 | 1.37 | 320 | 1.81 R | -1.64 | 391 | 1.79 | -1.64 | 028 | 11.71 | .61 | 030 | 11.61 | .29 |
| 234 | 2.05 | 1.29 | 391 | 1.79 | -1.64 | 393 | 1.76 | -1.98 | 360 | 11.60 | .46 | 397 | 11.61 | .26 |
| 193 | 2.03 | 1.02 | 393 | 1.76 | -1.98 | 398 | 1.50 s | -4.68 | 030 | 11.61 | .44 | 102 | 11.57 | .26 |
| 231 | 2.01 | .98 | 398 | 1.50 s | -4.68 | 095 | 1.48 s | -4.89 | 177 | 11.56 | .34 | 029 | 11.59 | .24 |
| 354 | 2.03 | .95 | 095 | 1.48 s | -4.89 | 131 | 0.04 s | -20.26 | 009 | 11.41 | .08 | 177 | 11.56 | .16 |
| * X=Excluded from lab performance | | | S/s=Screened Outlier | | | R=Duplicate Range too large | | | A=Analysis beyond 3-s limits | | | 073 | 11.55 | .14 |
| | | | | | | | | | | | | 106 | 11.52 | .08 |
| | | | | | | | | | | | | 040 | 11.52 | .08 |

Laboratory Averages & Accuracy Indexes

| Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index |
|-----------------------------------|----------|-------|-----------------------------|----------|-------|-----------------------------|----------|-------|------------------------------|----------|-------|----------------------|----------|-------|
| Meth: 144.XX PCT | | | Meth: 151.99 PPM | | | Meth: 165.99 PCT | | | Meth: 165.XX PCT | | | Meth: 181.30 PPM | | |
| <u>Sulfur</u> | | | Arsenic | | | Acid Soluble Boron | | | <u>Acid Soluble Boron</u> | | | Cadmium | | |
| 095 | 11.50 | .03 | <u>Other</u> | | | <u>Other</u> | | | 043 | 0.133 | -.66 | <u>ICP</u> | | |
| Avg | 11.48 | | 409 | 4.80 | .71 | 360 | 0.143 | 1.42 | 231 | 0.135 | -.70 | 393 | 1.00 | -1.14 |
| 193 | 11.47 | -.07 | Meth: 151.XX PPM | | | 324 | 0.142 | 1.18 | 300 | 0.130 | -.90 | 009 | 0.85 | -1.88 |
| 009 | 11.41 | -.18 | <u>Arsenic</u> | | | 232 | 0.140 | 1.02 | 393 | 0.131 | -1.01 | Meth: 181.99 PPM | | |
| 035 | 11.35 | -.30 | 409 | 4.80 | 1.62 | 106 | 0.140 | .86 | 009 | 0.129 | -1.02 | Cadmium | | |
| 376 | 11.27 | -.49 | 376 | 4.05 | .59 | 354 | 0.136 | .71 | 023 | 0.129 | -1.14 | <u>Other</u> | | |
| 422 | 11.22 | -.55 | 102 | 3.95 | .54 | 422 | 0.135 | .17 | 409 | 0.125 | -1.64 | 409 | 1.30 | .00 |
| 131 | 11.21 | -.58 | 096 | 4.15 | .52 | Avg | 0.135 | | 392 | 0.122 | -1.96 | Meth: 181.XX PPM | | |
| 393 | 11.21 | -.60 | 065 | 3.92 | .34 | 291 | 0.134 | -.37 | 426 | 0.110 s | -3.63 | <u>Cadmium</u> | | |
| 289 | 11.20 | -.61 | Avg | 3.75 | | 423 | 0.132 | -.52 | Meth: 171.10 PCT | | | 291 | 2.44 s | 6.54 |
| 320 | 11.24 R | -1.02 | 291 | 3.49 | -.44 | 043 | 0.133 | -.59 | Water Soluble Boron | | | 193 | 1.65 R | 2.39 |
| 389 | 10.90 | -1.23 | 040 | 3.26 | -.64 | 300 | 0.130 | -.84 | <u>Spectrometric</u> | | | 376 | 1.60 | 2.05 |
| 423 | 10.75 | -1.56 | 106 | 2.35 | -1.80 | 009 | 0.129 | -1.01 | 220 | 0.131 | .67 | 065 | 1.36 | .69 |
| 232 | 10.62 | -1.84 | Meth: 165.00 PCT | | | 409 | 0.125 | -1.82 | Avg | 0.130 | | 324 | 1.35 | .68 |
| 233 | 10.65 R | -1.97 | Acid Soluble Boron | | | 426 | 0.110 s | -4.37 | 296 | 0.130 | -1.03 | 102 | 1.31 | .45 |
| 262 | 10.20 | -2.68 | <u>Spectrometric</u> | | | Meth: 165.XX PCT | | | Meth: 181.00 PPM | | | 247 | 1.30 | .35 |
| 200 | 10.04 X | -3.00 | 137 | 0.150 | 1.32 | Acid Soluble Boron | | | Cadmium | | | 409 | 1.30 | .35 |
| 291 | 9.77 s | -3.58 | 296 | 0.140 R | 1.17 | 137 | 0.150 | 1.73 | <u>Atomic Absorption</u> | | | 040 | 1.28 | .22 |
| 114 | 9.65 s | -3.82 | 040 | 0.148 | 1.09 | 042 | 0.144 R | 1.61 | 193 | 1.65 | 1.29 | Avg | 1.23 | |
| Meth: 151.00 PPM | | | 028 | 0.148 | 1.09 | 040 | 0.148 | 1.47 | Avg | 1.35 | | 232 | 1.20 | -.19 |
| Arsenic | | | 391 | 0.146 | .92 | 028 | 0.148 | 1.47 | 040 | 1.28 | -.28 | 035 | 1.23 | -.36 |
| <u>Atomic Absorption</u> | | | 029 | 0.144 | .59 | 296 | 0.140 R | 1.38 | 397 | 1.12 | -.87 | 106 | 1.15 | -.53 |
| 040 | 3.26 | .71 | 200 | 0.140 | .16 | 391 | 0.146 | 1.27 | Meth: 181.30 PPM | | | 397 | 1.12 | -.61 |
| Meth: 151.30 PPM | | | 029 | 0.144 | .90 | 029 | 0.144 | .90 | Cadmium | | | 393 | 1.00 | -1.27 |
| Arsenic | | | 257 | 0.140 | .12 | 360 | 0.143 | .85 | <u>ICP</u> | | | 009 | 0.85 | -2.10 |
| <u>ICP</u> | | | Avg | 0.139 | | 324 | 0.142 | .66 | 291 | 2.44 s | 5.83 | Meth: 190.00 PCT | | |
| 376 | 4.05 | .76 | 258 | 0.137 | -.19 | 232 | 0.140 | .56 | 376 | 1.60 | 1.83 | Water Soluble Chlori | | |
| 096 | 4.15 | .72 | 289 | 0.134 | -.59 | 200 | 0.140 | .42 | 065 | 1.36 | .62 | <u>Titrimetric</u> | | |
| 102 | 3.95 | .68 | 231 | 0.135 | -.71 | 106 | 0.140 | .42 | 324 | 1.35 | .60 | 289 | 8.65 | 1.79 |
| 065 | 3.92 | .48 | 393 | 0.131 | -1.05 | 257 | 0.140 | .36 | 102 | 1.31 | .39 | 029 | 8.56 | 1.29 |
| Avg | 3.65 | | 023 | 0.129 | -1.20 | 258 | 0.137 | .02 | 247 | 1.30 | .31 | 422 | 8.41 | .77 |
| 291 | 3.49 | -.40 | 392 | 0.122 | -1.92 | Avg | 0.137 | | Avg | 1.24 | | 296 | 8.36 | .50 |
| 106 | 2.35 | -1.88 | Meth: 165.99 PCT | | | 422 | 0.135 | -.28 | 232 | 1.20 | -.17 | 102 | 8.18 | -.23 |
| Meth: 151.00 PPM | | | Acid Soluble Boron | | | 289 | 0.134 | -.44 | 035 | 1.23 | -.32 | 040 | 8.11 | -.59 |
| Arsenic | | | <u>Other</u> | | | 291 | 0.134 | -.46 | 106 | 1.15 | -.48 | Meth: 190.00 PCT | | |
| <u>ICP</u> | | | 042 | 0.144 R | 2.29 | 354 | 0.136 | -.54 | A=Analysis beyond 3-s limits | | | Water Soluble Chlori | | |
| * X=Excluded from lab performance | | | 423 | 0.132 | -.64 | 423 | 0.132 | -.64 | S/s=Screened Outlier | | | <u>Titrimetric</u> | | |
| * X=Excluded from lab performance | | | R=Duplicate Range too large | | | R=Duplicate Range too large | | | A=Analysis beyond 3-s limits | | | 289 8.65 1.79 | | |
| * X=Excluded from lab performance | | | S/s=Screened Outlier | | | S/s=Screened Outlier | | | A=Analysis beyond 3-s limits | | | 029 8.56 1.29 | | |
| * X=Excluded from lab performance | | | R=Duplicate Range too large | | | R=Duplicate Range too large | | | A=Analysis beyond 3-s limits | | | 422 8.41 .77 | | |
| * X=Excluded from lab performance | | | S/s=Screened Outlier | | | S/s=Screened Outlier | | | A=Analysis beyond 3-s limits | | | 296 8.36 .50 | | |
| * X=Excluded from lab performance | | | R=Duplicate Range too large | | | R=Duplicate Range too large | | | A=Analysis beyond 3-s limits | | | 102 8.18 -.23 | | |
| * X=Excluded from lab performance | | | S/s=Screened Outlier | | | S/s=Screened Outlier | | | A=Analysis beyond 3-s limits | | | 040 8.11 -.59 | | |

Laboratory Averages & Accuracy Indexes

| Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index |
|-----------------------------|----------|--------|------------------|----------|-------|----------------------------|----------|-------|----------------------------|----------|-------|----------------------------|----------|-------|
| Meth: 190.00 PCT | | | Meth: 191.30 PPM | | | Meth: 202.30 PPM | | | Meth: 221.00 PCT | | | Meth: 221.XX PCT | | |
| <u>Water Soluble Chlori</u> | | | <u>Chromium</u> | | | <u>Acid Soluble Cobalt</u> | | | <u>Acid Soluble Copper</u> | | | <u>Acid Soluble Copper</u> | | |
| <u>Titrimetric</u> | | | <u>ICP</u> | | | <u>ICP</u> | | | <u>Atomic Absorption</u> | | | | | |
| 043 | 8.07 | -.67 | 096 | 71.00 | .89 | 096 | 11.55 | 1.68 | 028 | 0.0710 | 1.07 | 040 | 0.0687 | .95 |
| 055 | 8.01 | -.94 | 291 | 71.00 | .87 | 009 | 10.65 | 1.40 | Avg | 0.0695 | | 330 | 0.0685 | .81 |
| 291 | 8.05 | -.95 | 376 | 69.80 | .75 | 291 | 9.19 | 1.00 | 397 | 0.0688 | -.16 | 035 | 0.0692 | .79 |
| 028 | 7.97 | -1.08 | 009 | 70.05 | .74 | 040 | 6.75 | .30 | 040 | 0.0687 | -1.16 | 393 | 0.0680 | .79 |
| 232 | 0.27 s | -31.72 | 393 | 70.00 | .73 | 102 | 6.46 | .20 | | | | 397 | 0.0688 | .75 |
| | | | 389 | 67.50 | .51 | 035 | 6.22 | .14 | Meth: 221.30 PCT | | | 291 | 0.0655 | .54 |
| | | | 102 | 68.36 | .51 | 324 | 6.05 | .12 | <u>Acid Soluble Copper</u> | | | 423 | 0.0657 | .43 |
| Meth: 190.99 PCT | | | Avg 65.12 | | | Avg 5.81 | | | <u>ICP</u> | | | Avg 0.0618 | | |
| <u>Water Soluble Chlori</u> | | | 324 62.60 -.38 | | | 232 5.10 -.21 | | | 102 0.0734 1.41 | | | 232 0.0610 -.09 | | |
| <u>Other</u> | | | 232 58.15 -1.05 | | | 106 3.30 -.73 | | | 009 0.0719 1.17 | | | 307 0.0618 -.13 | | |
| 389 | 8.70 | 1.23 | 065 | 54.07 | -1.65 | 065 | 2.49 | -.96 | 330 | 0.0685 | .89 | 065 | 0.0599 | -.50 |
| 288 | 8.54 | .77 | 035 | 53.85 | -1.68 | 320 | 2.00 | -1.10 | 035 | 0.0692 | .88 | 096 | 0.0550 | -.73 |
| 009 | 8.29 | .06 | | | | 426 | 0.00 | -1.68 | 393 | 0.0680 | .86 | 157 | 0.0527 | -.97 |
| Avg | 8.27 | | Meth: 191.99 PPM | | | Meth: 202.99 PPM | | | 291 | 0.0655 | .61 | 354 | 0.0510 | -1.16 |
| 360 | 8.04 | -.72 | <u>Chromium</u> | | | <u>Acid Soluble Cobalt</u> | | | 423 | 0.0657 | .51 | 409 | 0.0484 | -1.44 |
| 095 | 7.80 | -1.37 | <u>Other</u> | | | <u>Other</u> | | | 422 | 0.0650 | .43 | 420 | 0.0474 | -1.54 |
| | | | 409 | 61.75 | .71 | 409 | 7.90 | .71 | 307 | 0.0618 | .15 | 324 | 0.0431 | -1.99 |
| Meth: 190.XX PCT | | | Meth: 191.XX PPM | | | Meth: 202.XX PPM | | | Avg | 0.0612 | | 426 | 0.0010 s | -6.48 |
| <u>Water Soluble Chlori</u> | | | <u>Chromium</u> | | | <u>Acid Soluble Cobalt</u> | | | 232 | 0.0610 | -.02 | Meth: 241.00 PCT | | |
| 389 | 8.70 | 1.81 | 096 | 71.00 | .96 | 096 | 11.55 | 1.67 | 065 | 0.0599 | -.49 | <u>Acid Soluble Iron</u> | | |
| 289 | 8.65 R | 1.75 | 291 | 71.00 | .95 | 009 | 10.65 | 1.39 | 096 | 0.0550 | -.68 | <u>Atomic Absorption</u> | | |
| 029 | 8.56 | 1.29 | 376 | 69.80 | .81 | 291 | 9.19 | .98 | 157 | 0.0527 | -.93 | 397 | 0.57 s | 8.06 |
| 288 | 8.54 | 1.21 | 009 | 70.05 | .80 | 409 | 7.90 | .62 | 354 | 0.0510 | -1.12 | 289 | 0.37 | 1.90 |
| 422 | 8.41 | .79 | 393 | 70.00 | .79 | 040 | 6.75 | .27 | 420 | 0.0474 | -1.51 | 137 | 0.36 | 1.59 |
| 296 | 8.36 | .53 | 102 | 68.36 | .57 | 102 | 6.46 | .16 | 324 | 0.0431 | -1.98 | 043 | 0.33 | .65 |
| 009 | 8.29 | .27 | 389 | 67.50 | .56 | 035 | 6.22 | .11 | 426 | 0.0010 s | -6.59 | 296 | 0.32 R | .54 |
| Avg | 8.22 | | Avg | 64.84 | | 324 | 6.05 | .11 | | | | 351 | 0.32 | .48 |
| 102 | 8.18 | -.16 | 324 | 62.60 | -.35 | Avg | 5.97 | | Meth: 221.99 PCT | | | 425 | 0.32 | .37 |
| 040 | 8.11 | -.51 | 409 | 61.75 | -.49 | 232 | 5.10 | -.26 | <u>Acid Soluble Copper</u> | | | 220 | 0.32 | .24 |
| 043 | 8.07 | -.57 | 232 | 58.15 | -1.05 | 106 | 3.30 | -.80 | <u>Other</u> | | | Avg | 0.31 | |
| 360 | 8.04 | -.77 | 065 | 54.07 | -1.67 | 065 | 2.49 | -1.04 | 409 | 0.0484 | .71 | 095 | 0.31 | -.08 |
| 055 | 8.01 | -.83 | 035 | 53.85 | -1.70 | 320 | 2.00 | -1.18 | Meth: 221.XX PCT | | | 029 | 0.31 | -.23 |
| 291 | 8.05 | -.85 | | | | 426 | 0.00 | -1.77 | <u>Acid Soluble Copper</u> | | | 028 | 0.30 | -.28 |
| 028 | 7.97 | -.96 | | | | | | | 102 | 0.0734 | 1.31 | 055 | 0.30 | -.36 |
| 095 | 7.80 | -1.60 | | | | | | | 028 | 0.0710 | 1.12 | 177 | 0.29 | -.57 |
| 232 | 0.27 s | -30.02 | | | | | | | 009 | 0.0719 | 1.07 | 233 | 0.29 | -.66 |

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

| Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index |
|-----------------------------------|----------|-------|--------------------------|----------|-------|-----------------------------|----------|-------|------------------------------|----------|-------|----------------------|----------|-------|
| Meth: 241.00 PCT | | | Meth: 241.99 PCT | | | Meth: 241.XX PCT | | | Meth: 251.99 PPM | | | Meth: 261.11 PCT | | |
| Acid Soluble Iron | | | Acid Soluble Iron | | | <u>Acid Soluble Iron</u> | | | Lead | | | Acid Soluble Mangane | | |
| <u>Atomic Absorption</u> | | | <u>Other</u> | | | 426 0.30 - .50 | | | <u>Other</u> | | | <u>AA</u> | | |
| 193 | 0.27 | -1.37 | 398 | 0.48 S | 16.85 | 028 | 0.30 | -.51 | 409 | 2.95 | -.71 | 095 | 0.290 | .70 |
| 040 | 0.25 | -1.91 | 390 | 0.29 | .86 | 307 | 0.30 | -.59 | Meth: 251.XX PPM | | | Avg | 0.286 | |
| Meth: 241.30 PCT | | | 065 0.27 -.88 | | | 055 0.30 -.60 | | | <u>Lead</u> | | | 040 | 0.282 | -1.01 |
| Acid Soluble Iron | | | Meth: 241.XX PCT | | | 300 0.30 -.60 | | | 291 14.84 s 17.50 | | | Meth: 261.30 PCT | | |
| <u>ICP</u> | | | <u>Acid Soluble Iron</u> | | | 232 0.30 -.65 | | | 376 4.40 1.78 | | | Acid Soluble Mangane | | |
| 389 | 0.36 | 1.54 | 397 | 0.57 s | 8.79 | 420 | 0.30 | -.66 | 106 4.00 1.19 | | | <u>ICP</u> | | |
| 409 | 0.36 | 1.54 | 398 | 0.48 s | 5.55 | 291 | 0.30 | -.71 | 035 3.58 .62 | | | 354 | 0.378 s | 5.45 |
| 330 | 0.36 | 1.36 | 289 | 0.37 | 1.91 | 177 | 0.29 | -.84 | 102 3.38 .43 | | | 042 | 0.331 R | 2.64 |
| 042 | 0.35 R | 1.15 | 137 | 0.36 | 1.56 | 390 | 0.29 | -.86 | Avg 3.24 | | | 102 | 0.331 | 1.82 |
| 324 | 0.34 | .90 | 389 | 0.36 | 1.56 | 233 | 0.29 | -.93 | 409 2.95 -.49 | | | 330 | 0.330 | 1.73 |
| 023 | 0.34 | .82 | 409 | 0.36 | 1.56 | 095 | 0.28 | -1.17 | 324 2.95 -.49 | | | 035 | 0.321 | 1.23 |
| 035 | 0.34 | .78 | 330 | 0.36 | 1.40 | 065 | 0.27 | -1.55 | 096 2.80 -.66 | | | 423 | 0.317 | .98 |
| 057 | 0.34 | .75 | 042 | 0.35 R | 1.20 | 193 | 0.27 | -1.73 | 040 2.53 -1.10 | | | 426 | 0.316 | .93 |
| 106 | 0.34 | .75 | 324 | 0.34 | 1.00 | 320 | 0.26 | -1.76 | 065 2.54 -1.12 | | | 422 | 0.307 | .39 |
| 354 | 0.34 | .71 | 023 | 0.34 | .93 | 040 | 0.25 | -2.33 | 393 0.11 s -4.71 | | | 360 | 0.305 | .37 |
| 102 | 0.34 | .60 | 035 | 0.34 | .88 | 422 | 0.14 s | -5.95 | Meth: 261.00 PCT | | | 057 | 0.304 | .24 |
| 360 | 0.33 | .45 | 057 | 0.34 | .87 | Meth: 251.00 PPM | | | Acid Soluble Mangane | | | 023 | 0.302 | .18 |
| 231 | 0.32 | .38 | 106 | 0.34 | .87 | Lead | | | <u>AA</u> | | | 307 | 0.300 | .14 |
| 096 | 0.33 | .36 | 354 | 0.34 | .84 | <u>Atomic Absorption</u> | | | 137 0.380 s 4.59 | | | Avg | 0.300 | |
| Avg | 0.32 | | 102 | 0.34 | .74 | 040 2.53 .71 | | | 258 0.380 s 4.59 | | | 232 | 0.299 | -.07 |
| 423 | 0.32 | -.07 | 360 | 0.33 | .56 | Meth: 251.30 PPM | | | 043 0.309 .98 | | | 247 | 0.295 | -.30 |
| 009 | 0.32 | -.14 | 296 | 0.32 R | .56 | Lead | | | 028 0.306 .90 | | | 131 | 0.290 | -.56 |
| 157 | 0.31 | -.46 | 096 | 0.33 | .53 | <u>ICP</u> | | | 289 0.305 .83 | | | 157 | 0.289 | -.64 |
| 131 | 0.31 | -.59 | 043 | 0.33 | .53 | 291 14.84 s 16.99 | | | 397 0.301 .70 | | | 389 | 0.290 | -.80 |
| 426 | 0.30 | -.81 | 231 | 0.32 | .44 | 376 4.40 1.54 | | | 296 0.303 .70 | | | 009 | 0.285 | -.88 |
| 307 | 0.30 | -.87 | 351 | 0.32 | .33 | 106 4.00 .97 | | | 029 0.299 .49 | | | 231 | 0.295 | -.90 |
| 300 | 0.30 | -.92 | 425 | 0.32 | .21 | 035 3.58 .45 | | | 233 0.295 .38 | | | 420 | 0.275 | -1.42 |
| 232 | 0.30 | -.97 | 220 | 0.32 | .17 | 102 3.38 .36 | | | 351 0.295 .36 | | | 291 | 0.275 | -1.44 |
| 420 | 0.30 | -.99 | 423 | 0.32 | .15 | Avg 3.38 | | | 177 0.293 .19 | | | 320 | 0.299 R | -1.53 |
| 291 | 0.30 | -1.03 | 009 | 0.32 | .09 | 096 2.80 -.85 | | | Avg 0.289 | | | 065 | 0.273 | -1.53 |
| 095 | 0.28 | -1.56 | Avg | 0.31 | | 065 2.54 -1.30 | | | 391 0.280 -.47 | | | 393 | 0.240 s | -4.44 |
| 320 | 0.26 | -2.25 | 157 | 0.31 | -.19 | 393 0.11 s -4.84 | | | 392 0.272 -.92 | | | Meth: 261.31 PCT | | |
| 422 | 0.14 s | -7.02 | 095 | 0.31 | -.29 | | | | 257 0.259 -1.53 | | | Acid Soluble Mangane | | |
| | | | 131 | 0.31 | -.31 | | | | 055 0.253 R -1.99 | | | <u>ICP</u> | | |
| | | | 029 | 0.31 | -.37 | | | | 193 0.245 -2.26 | | | 324 0.303 .91 | | |
| * X=Excluded from lab performance | | | S/s=Screened Outlier | | | R=Duplicate Range too large | | | A=Analysis beyond 3-s limits | | | | | |

Laboratory Averages & Accuracy Indexes

| Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index |
|-----------------------------------|----------|--------|-----------------------------|----------|---------|-----------------------------|----------|----------|------------------------------|----------|---------|------------------------------|----------|-------|
| Meth: 261.31 PCT | | | Meth: 261.XX PCT | | | Meth: 281.30 PPM | | | Meth: 289.30 PPM | | | Meth: 291.30 PPM | | |
| <u>Acid Soluble Mangane</u> | | | <u>Acid Soluble Mangane</u> | | | Mercury | | | Molybdenum | | | Nickel | | |
| <u>ICP</u> | | | <u>ICP</u> | | | <u>ICP</u> | | | <u>ICP</u> | | | <u>ICP</u> | | |
| 095 | 0.311 | .82 | 023 | 0.302 | .39 | 040 | 36.05 | S1305.50 | 106 | 4.75 | -1.48 | 324 | 36.90 | -.54 |
| Avg | 0.303 | | 307 | 0.300 | .31 | 291 | 0.09 | .71 | 393 | 0.01 | S -4.56 | 065 | 34.88 | -.82 |
| 106 | 0.295 | -1.00 | 220 | 0.300 | .29 | Avg | 0.09 | | | | | 106 | 28.50 | -1.75 |
| | | | 106 | 0.295 | .27 | | | | | | | | | |
| | | | 233 | 0.295 | .27 | | | | | | | | | |
| | | | 232 | 0.299 | .24 | Meth: 281.99 PPM | | | Meth: 289.99 PPM | | | Meth: 291.99 PPM | | |
| Meth: 261.99 PCT | | | 029 0.299 .23 | | | Mercury | | | Molybdenum | | | Nickel | | |
| <u>Acid Soluble Mangane</u> | | | 351 0.295 .21 | | | <u>Other</u> | | | <u>Other</u> | | | <u>Other</u> | | |
| <u>Other</u> | | | Avg 0.295 | | | 409 0.10 .00 | | | 409 8.05 -.71 | | | 409 37.20 .89 | | |
| 234 | 0.310 | 1.25 | 247 | 0.295 | -.03 | | | | | | | | | |
| 220 | 0.300 | .37 | 177 | 0.293 | -.10 | Meth: 281.XX PPM | | | Meth: 289.XX PPM | | | Meth: 291.XX PPM | | |
| Avg | 0.296 | | 131 | 0.290 | -.26 | <u>Mercury</u> | | | <u>Molybdenum</u> | | | <u>Molybdenum</u> | | |
| 409 | 0.288 | -.86 | 157 | 0.289 | -.33 | 040 36.05 s1355.57 | | | 422 34.53 s 19.01 | | | 035 34.20 -.84 | | |
| 390 | 0.285 | -1.04 | 095 | 0.290 | -.33 | 193 0.12 1.17 | | | 291 10.59 2.44 | | | 291 54.90 2.27 | | |
| | | | 409 | 0.288 | -.48 | 409 0.10 .14 | | | 247 8.60 1.05 | | | 102 45.89 .93 | | |
| Meth: 261.XX PCT | | | 009 0.285 -.56 | | | Avg 0.10 | | | 409 8.05 .71 | | | 096 44.00 .65 | | |
| <u>Acid Soluble Mangane</u> | | | 390 0.285 -.58 | | | 291 0.09 -.77 | | | 232 6.90 -.13 | | | 376 43.70 .62 | | |
| 354 | 0.378 | s 5.33 | 389 | 0.290 | -.59 | 363 0.08 -1.24 | | | 102 6.94 -.13 | | | 247 40.50 .13 | | |
| 258 | 0.380 | s 4.56 | 391 | 0.280 | -.78 | Meth: 289.00 PPM | | | 065 6.62 -.33 | | | Avg 39.80 | | |
| 137 | 0.380 | s 4.56 | 040 | 0.282 | -.79 | Molybdenum | | | 009 6.60 -.34 | | | 009 38.80 -.16 | | |
| 042 | 0.331 | R 2.67 | 420 | 0.275 | -1.06 | <u>Atomic Absorption</u> | | | 324 6.60 -.44 | | | 232 38.15 -.25 | | |
| 102 | 0.331 | 1.97 | 291 | 0.275 | -1.08 | 040 6.80 -.71 | | | 040 6.80 -.46 | | | 409 37.20 -.41 | | |
| 330 | 0.330 | 1.89 | 065 | 0.273 | -1.16 | Meth: 289.30 PPM | | | 035 6.37 -.52 | | | 324 36.90 -.44 | | |
| 320 | 0.299 | R 1.46 | 392 | 0.272 | -1.25 | Molybdenum | | | 096 6.20 -.62 | | | 065 34.88 -.74 | | |
| 035 | 0.321 | 1.42 | 257 | 0.259 | -1.91 | <u>ICP</u> | | | 106 4.75 -1.63 | | | 035 34.20 -.84 | | |
| 423 | 0.317 | 1.19 | 055 | 0.253 | -2.37 | 422 34.53 s 17.90 | | | 393 0.01 s -4.90 | | | 106 28.50 -1.71 | | |
| 426 | 0.316 | 1.14 | 193 | 0.245 | -2.67 | 291 10.59 2.33 | | | Meth: 291.30 PPM | | | Meth: 301.00 PPM | | |
| 095 | 0.311 | .85 | 393 | 0.240 | s -3.96 | 247 8.60 1.03 | | | Nickel | | | Selenium | | |
| 234 | 0.310 | .82 | Meth: 281.00 PPM | | | Avg 7.02 | | | <u>ICP</u> | | | <u>Atomic Absorption</u> | | |
| 231 | 0.295 | .80 | Mercury | | | 232 6.90 -.08 | | | 291 54.90 2.05 | | | 040 0.28 -.71 | | |
| 043 | 0.309 | .75 | <u>Atomic Absorption</u> | | | 102 6.94 -.10 | | | 102 45.89 .77 | | | Meth: 301.30 PPM | | |
| 028 | 0.306 | .69 | 193 0.12 .82 | | | 065 6.62 -.26 | | | 096 44.00 .50 | | | Selenium | | |
| 324 | 0.303 | .64 | Avg 0.10 | | | 009 6.60 -.27 | | | 376 43.70 .48 | | | <u>ICP</u> | | |
| 422 | 0.307 | .63 | 363 0.08 -.91 | | | 324 6.60 -.38 | | | Avg 40.62 | | | 065 1.38 1.00 | | |
| 289 | 0.305 | .61 | | | | 035 6.37 -.45 | | | 247 40.50 -.07 | | | Avg 0.71 | | |
| 360 | 0.305 | .58 | | | | 096 6.20 -.54 | | | 009 38.80 -.26 | | | A=Analysis beyond 3-s limits | | |
| 397 | 0.301 | .53 | | | | Meth: 289.30 PPM | | | 232 38.15 -.36 | | | | | |
| 057 | 0.304 | .49 | | | | Molybdenum | | | Meth: 291.30 PPM | | | | | |
| 296 | 0.303 | .45 | | | | <u>ICP</u> | | | Nickel | | | | | |
| * X=Excluded from lab performance | | | S/s=Screened Outlier | | | R=Duplicate Range too large | | | A=Analysis beyond 3-s limits | | | | | |

Laboratory Averages & Accuracy Indexes

| Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index |
|-----------------------------------|----------|-------|--------------------------|--------------------------|-----------------|-----------------------------|-----------------|---------------|------------------------------|----------|-------|--------------------------|----------|-------|
| Meth: 301.30 PPM | | | Meth: 311.XX PCT | | | Meth: 321.30 PCT | | | Meth: 321.XX PCT | | | Meth: 321.XX PCT | | |
| <u>Selenium</u> | | | <u>Sodium</u> | | | <u>Acid Soluble Zinc</u> | | | <u>Acid Soluble Zinc</u> | | | <u>Acid Soluble Zinc</u> | | |
| ICP | | | 409 | 0.49 R | 1.43 | ICP | | | 232 | 0.556 s | 5.34 | 055 | 0.421 | - .83 |
| 291 | 0.05 | - .70 | 307 | 0.49 | .85 | 232 | 0.556 s | 5.33 | 042 | 0.522 R | 2.35 | 389 | 0.420 | - .84 |
| | | | 102 | 0.47 | .02 | 042 | 0.522 R | 2.40 | 330 | 0.520 | 2.24 | 291 | 0.415 | -1.01 |
| Meth: 301.XX PPM | | | Avg 0.47 | | | 330 0.520 2.29 | | | 193 0.505 1.76 | | | 320 0.406 -1.27 | | |
| <u>Selenium</u> | | | 009 0.47 - .02 | | | 035 0.490 1.32 | | | 258 0.500 1.56 | | | 397 0.405 -1.30 | | |
| 065 | 1.38 | 1.38 | 320 | 0.46 | - .26 | 102 | 0.488 | 1.25 | 398 | 0.500 | 1.56 | 296 | 0.404 | -1.32 |
| Avg | 0.57 | | 423 | 0.45 | - .67 | 393 | 0.480 | 1.03 | 137 | 0.490 | 1.26 | 095 | 0.403 | -1.45 |
| 040 | 0.28 | - .38 | 232 | 0.45 | - .75 | 106 | 0.470 | .73 | 035 | 0.490 | 1.26 | 257 | 0.390 | -1.75 |
| 291 | 0.05 | - .68 | 193 | 0.45 | - .77 | 057 | 0.460 | .53 | 102 | 0.488 | 1.18 | 065 | 0.365 | -2.51 |
| | | | 035 | 0.45 | - .92 | 360 | 0.453 | .45 | 029 | 0.479 | 1.03 | 409 | 0.254 s | -5.83 |
| Meth: 311.00 PCT | | | Meth: 321.00 PCT | | | 422 0.457 .44 | | | 393 0.480 .96 | | | | | |
| <u>Sodium</u> | | | <u>Acid Soluble Zinc</u> | | | 354 0.451 .29 | | | 028 0.472 .85 | | | | | |
| <u>Atomic Absorption</u> | | | <u>Atomic Absorption</u> | | | 009 0.449 .22 | | | 200 0.465 .68 | | | | | |
| 193 | 0.45 | .71 | 193 | 0.505 | 1.84 | 023 0.449 .16 | 106 0.470 .66 | 057 0.460 .48 | | | | | | |
| Meth: 311.30 PCT | | | 258 0.500 1.63 | | | 324 0.449 .12 | | | 057 0.460 .48 | | | | | |
| <u>Sodium</u> | | | 137 0.490 1.32 | | | 247 0.447 .05 | | | 360 0.453 .42 | | | | | |
| <u>Flame Photometric</u> | | | 029 0.479 R 1.09 | | | 423 0.440 - .17 | | | 422 0.457 .38 | | | | | |
| 320 | 0.46 | .71 | 028 0.472 .89 | 200 0.465 .72 | 231 0.440 - .52 | 043 0.460 .36 | 392 0.457 .27 | | | | | | | |
| Meth: 311.99 PCT | | | 043 0.460 .40 | | | 157 0.425 - .62 | | | 354 0.451 .26 | | | | | |
| <u>Sodium</u> | | | 392 0.457 .31 | | | 426 0.424 - .63 | | | 009 0.449 .19 | | | | | |
| <u>Other</u> | | | 289 0.455 .29 | | | 389 0.420 - .75 | | | 023 0.449 .12 | | | | | |
| 291 | 0.54 S | 2.73 | Avg 0.447 | 291 0.415 - .92 | 291 0.415 - .92 | 324 0.449 .04 | | | | | | | | |
| 422 | 0.53 | 1.98 | 177 0.445 - .09 | 320 0.406 -1.18 | 320 0.406 -1.18 | Avg 0.448 | | | | | | | | |
| 409 | 0.49 R | 1.26 | 095 0.442 - .16 | 095 0.403 -1.36 | 095 0.403 -1.36 | 247 0.447 - .04 | | | | | | | | |
| 307 | 0.49 | .65 | 233 0.445 - .17 | 065 0.365 -2.40 | 065 0.365 -2.40 | 177 0.445 - .12 | | | | | | | | |
| Avg | 0.47 | | 391 0.435 - .40 | Meth: 321.99 PCT | | | 233 0.445 - .18 | | | | | | | |
| 102 | 0.47 | - .13 | 262 0.430 - .53 | <u>Acid Soluble Zinc</u> | | | 095 0.442 - .18 | | | | | | | |
| 009 | 0.47 | - .14 | 351 0.430 - .54 | <u>Other</u> | | | 307 0.442 - .23 | | | | | | | |
| 423 | 0.45 | - .74 | 055 0.421 - .83 | | | | 423 0.440 - .25 | | | | | | | |
| 232 | 0.45 | - .81 | 397 0.405 -1.31 | | | | 391 0.435 - .42 | | | | | | | |
| 035 | 0.45 | - .96 | 296 0.404 -1.33 | | | | 220 0.445 - .46 | | | | | | | |
| | | | 257 0.390 -1.77 | | | | 262 0.430 - .54 | | | | | | | |
| Meth: 311.XX PCT | | | | | | 409 0.254 S -6.44 | | | 351 0.430 - .55 | | | | | |
| <u>Sodium</u> | | | | | | | | | 231 0.440 - .56 | | | | | |
| 291 | 0.54 s | 3.09 | | | | | | | 157 0.425 - .71 | | | | | |
| 422 | 0.53 | 2.29 | | | | | | | 426 0.424 - .72 | | | | | |
| * X=Excluded from lab performance | | | S/s=Screened Outlier | | | R=Duplicate Range too large | | | A=Analysis beyond 3-s limits | | | | | |

Method Evaluation - Z Values Based on 1 Reports

| Method Code | Number Of Labs | Avg Bias of Labs | Std Dev of Biases | Std Dev Within Labs | Method Code | Number Of Labs | Avg Bias of Labs | Std Dev of Biases | Std Dev Within Labs |
|-------------|----------------|------------------|-------------------|---------------------|-------------|----------------|------------------|-------------------|---------------------|
| 001.10 | 8 | - 0.13 | 1.00 | 0.32 | 050.99 | 14 | 0.07 | 1.01 | 0.20 |
| 001.99 | 16 | 0.86 | 2.09 | 0.21 | 050.XX | 77 | 0.03 | 1.02 | 0.25 |
| 001.XX | 24 | 0.46 | 1.86 | 0.26 | 060.00 | 9 | 0.13 | 1.02 | 0.30 |
| 002.99 | 6 | 0.00 | 1.04 | 0.09 | 060.XX | 10 | 0.04 | 0.97 | 0.17 |
| 002.XX | 7 | 0.00 | 1.04 | 0.09 | 101.30 | 12 | 13.67 | 39.41 | 2.29 |
| 009.10 | 7 | 1.02 | 2.87 | 0.11 | 101.XX | 13 | 1.64 | 4.69 | 0.29 |
| 009.XX | 8 | 0.89 | 2.70 | 0.11 | 121.00 | 16 | 0.84 | 3.49 | 0.32 |
| 010.11 | 5 | 0.00 | 1.03 | 0.23 | 121.30 | 28 | - 0.12 | 5.26 | 0.41 |
| 010.12 | 4 | 0.00 | 1.08 | 0.04 | 121.99 | 2 | - 3.89 | 5.50 | 0.50 |
| 010.60 | 53 | 0.04 | 0.94 | 0.48 | 121.XX | 46 | 0.09 | 4.26 | 0.47 |
| 010.99 | 5 | 0.00 | 1.04 | 0.20 | 131.00 | 3 | 0.00 | 0.62 | 0.76 |
| 010.XX | 67 | 0.02 | 1.01 | 0.36 | 131.30 | 3 | 0.00 | 1.11 | 0.14 |
| 020.10 | 8 | - 2.02 | 5.78 | 0.33 | 131.XX | 6 | 0.00 | 1.01 | 0.25 |
| 020.20 | 24 | 0.05 | 1.01 | 0.17 | 144.01 | 17 | - 0.23 | 1.72 | 0.63 |
| 020.40 | 6 | 0.00 | 1.00 | 0.30 | 144.02 | 2 | - 12.46 | 17.62 | 0.98 |
| 020.50 | 7 | 0.00 | 1.04 | 0.08 | 144.70 | 2 | 0.00 | 1.22 | 0.09 |
| 020.XX | 45 | - 0.05 | 1.53 | 0.15 | 144.99 | 21 | - 0.16 | 1.16 | 0.26 |
| 030.20 | 2 | 0.00 | 1.20 | 0.18 | 144.XX | 41 | - 0.24 | 1.27 | 0.26 |
| 030.40 | 3 | 0.00 | 1.10 | 0.17 | 151.30 | 6 | 0.00 | 0.98 | 0.35 |
| 030.99 | 2 | 0.00 | 1.20 | 0.17 | 151.XX | 8 | 0.00 | 0.93 | 0.42 |
| 030.XX | 9 | 0.27 | 1.27 | 0.15 | 165.00 | 14 | 0.011 | 0.944 | 0.403 |
| 040.20 | 2 | 0.00 | 1.08 | 0.41 | 165.99 | 14 | - 0.198 | 1.523 | 0.604 |
| 040.40 | 2 | 0.00 | 0.96 | 0.54 | 165.XX | 28 | - 0.080 | 1.154 | 0.462 |
| 040.99 | 3 | 0.00 | 0.91 | 0.53 | 171.10 | 2 | 0.000 | 0.036 | 0.866 |
| 040.XX | 9 | - 0.48 | 1.71 | 0.46 | 171.XX | 2 | 0.000 | 0.036 | 0.866 |
| 041.10 | 19 | - 0.19 | 1.28 | 0.20 | 181.00 | 3 | 0.00 | 1.04 | 0.33 |
| 041.20 | 4 | 0.00 | 0.91 | 0.50 | 181.30 | 11 | 0.53 | 2.00 | 0.22 |
| 041.40 | 4 | - 1.38 | 2.89 | 0.32 | 181.XX | 15 | 0.59 | 1.97 | 0.30 |
| 041.50 | 7 | 0.00 | 0.91 | 0.46 | 190.00 | 11 | - 2.88 | 9.61 | 0.34 |
| 041.60 | 13 | - 0.56 | 1.91 | 0.55 | 190.99 | 5 | 0.00 | 1.05 | 0.13 |
| 041.XX | 42 | - 0.55 | 1.65 | 0.46 | 190.XX | 16 | - 1.78 | 7.60 | 0.28 |
| 048.20 | 6 | - 0.41 | 1.38 | 0.16 | 191.30 | 11 | 0.00 | 1.01 | 0.18 |
| 048.XX | 6 | - 0.41 | 1.38 | 0.16 | 191.XX | 12 | 0.00 | 1.01 | 0.18 |
| 050.00 | 23 | - 0.02 | 1.53 | 0.54 | 202.30 | 12 | 0.00 | 1.02 | 0.11 |
| 050.30 | 12 | 0.05 | 0.97 | 0.32 | 202.XX | 13 | 0.00 | 1.01 | 0.13 |
| 050.50 | 6 | 0.00 | 1.03 | 0.17 | 221.00 | 3 | 0.0000 | 0.2666 | 0.8865 |
| 050.51 | 8 | - 0.53 | 1.66 | 0.73 | 221.30 | 17 | - 0.387 | 1.8616 | 0.2382 |
| 050.60 | 7 | 0.00 | 1.04 | 0.10 | 221.XX | 21 | - 0.308 | 1.7017 | 0.2740 |
| 050.61 | 8 | 0.52 | 1.75 | 0.18 | 241.00 | 16 | 0.52 | 2.22 | 0.23 |

Method Evaluation - Z Values Based on 1 Reports

| Method Code | Number Of Labs | Avg Bias of Labs | Std Dev of Biases | Std Dev Within Labs | Method Code | Number Of Labs | Avg Bias of Labs | Std Dev of Biases | Std Dev Within Labs |
|-------------|----------------|------------------|-------------------|---------------------|-------------|----------------|------------------|-------------------|---------------------|
| 241.30 | 27 | - 0.22 | 1.67 | 0.21 | | | | | |
| 241.99 | 3 | 5.61 | 9.76 | 0.27 | | | | | |
| 241.XX | 45 | 0.23 | 2.03 | 0.22 | | | | | |
| 251.30 | 9 | 1.35 | 6.13 | 0.47 | | | | | |
| 251.XX | 11 | 1.16 | 5.66 | 0.45 | | | | | |
| 261.00 | 16 | 0.459 | 1.900 | 0.265 | | | | | |
| 261.11 | 2 | 0.000 | 0.745 | 0.687 | | | | | |
| 261.30 | 24 | 0.117 | 1.506 | 1.037 | | | | | |
| 261.31 | 3 | 0.000 | 0.831 | 0.611 | | | | | |
| 261.99 | 4 | 0.000 | 1.006 | 0.341 | | | | | |
| 261.XX | 48 | 0.261 | 1.523 | 0.719 | | | | | |
| 281.00 | 2 | 0.00 | 0.86 | 0.61 | | | | | |
| 281.30 | 2 | 651.98 | 922.04 | 44.87 | | | | | |
| 281.XX | 5 | 270.79 | 605.51 | 29.48 | | | | | |
| 289.30 | 12 | 1.11 | 5.52 | 0.15 | | | | | |
| 289.XX | 14 | 1.01 | 5.42 | 0.19 | | | | | |
| 291.30 | 10 | 0.00 | 1.02 | 0.12 | | | | | |
| 291.99 | 2 | 0.00 | 1.14 | 0.31 | | | | | |
| 291.XX | 12 | 0.00 | 1.01 | 0.12 | | | | | |
| 301.30 | 2 | 0.00 | 0.99 | 0.51 | | | | | |
| 301.XX | 3 | 0.00 | 0.93 | 0.51 | | | | | |
| 311.99 | 9 | 0.32 | 1.17 | 0.64 | | | | | |
| 311.XX | 11 | 0.31 | 1.21 | 0.63 | | | | | |
| 321.00 | 19 | 0.051 | 0.990 | 0.229 | | | | | |
| 321.30 | 25 | 0.222 | 1.218 | 0.891 | | | | | |
| 321.99 | 3 | - 2.145 | 3.802 | 0.284 | | | | | |
| 321.XX | 45 | 0.024 | 1.416 | 0.694 | | | | | |