



2015 North American Proficiency Testing Program
2nd Quarter Report - July 13, 2015

Laboratory ID
general

| Environmental Soil Analyses | Units | n | Soil 2015-106 | | | Soil 2015-107 | | | Soil 2015-108 | | | Soil 2015-109 | | | Soil 2015-110 | | |
|--------------------------------|-------|----|---------------|-------|--------------------|---------------|-------|--------------------|---------------|-------|--------------------|---------------|-------|--------------------|---------------|-------|--------------------|
| | | | Median | MAD | Lab ^{1,2} | Median | MAD | Lab ^{1,2} | Median | MAD | Lab ^{1,2} | Median | MAD | Lab ^{1,2} | Median | MAD | Lab ^{1,2} |
| Ag | mg/kg | | | | | | | | | | | | | | | | |
| Al | mg/kg | 9 | 12400 | 2210 | | 12300 | 1160 | | 19100 | 4930 | | 3240 | 693 | | 11600 | 2740 | |
| As | mg/kg | 8 | 4.16 | 0.970 | | 3.47 | 1.41 | | 10.9 | 1.94 | | 1.40 | 0.660 | | 5.07 | 0.725 | |
| Ba | mg/kg | 3 | 105 | 3.80 | | 119 | 2.70 | | 261 | 34.6 | | 27.6 | 0.400 | | 100 | 3.40 | |
| Be | mg/kg | 2 | 49.1 | 48.6 | | 0.400 | 0.000 | | 0.700 | 0.000 | | 0.100 | 0.000 | | 0.600 | 0.000 | |
| Bi | mg/kg | | | | | | | | | | | | | | | | |
| B | mg/kg | 7 | 18.3 | 8.30 | | 9.20 | 5.89 | | 13.2 | 7.85 | | 2.70 | 1.87 | | 5.05 | 2.43 | |
| Ca | mg/kg | 9 | 8330 | 814 | | 3400 | 144 | | 4600 | 274 | | 822 | 108 | | 2800 | 198 | |
| Cd | mg/kg | 9 | 0.460 | 0.070 | | 0.470 | 0.170 | | 0.210 | 0.150 | | 0.055 | 0.036 | | 0.190 | 0.050 | |
| Co | mg/kg | 7 | 5.74 | 0.740 | | 10.4 | 1.22 | | 12.5 | 1.60 | | 0.900 | 0.170 | | 5.95 | 0.440 | |
| Cr | mg/kg | 9 | 20.0 | 4.70 | | 18.0 | 3.72 | | 23.5 | 5.80 | | 5.00 | 0.240 | | 17.7 | 2.80 | |
| Cu | mg/kg | 10 | 14.4 | 1.60 | | 17.6 | 1.80 | | 15.9 | 1.15 | | 5.25 | 0.950 | | 13.2 | 1.50 | |
| Fe | mg/kg | 9 | 11800 | 1287 | | 22000 | 1870 | | 21900 | 1130 | | 2770 | 219 | | 10400 | 855 | |
| K | mg/kg | 8 | 3514 | 417 | | 2120 | 237 | | 1990 | 677 | | 286 | 76.3 | | 1660 | 537 | |
| Li | mg/kg | 2 | 53.1 | 43.1 | | 59.8 | 50.8 | | 145 | 138 | | 12.8 | 11.8 | | 59.5 | 53.5 | |
| Mg | mg/kg | 9 | 4640 | 256 | | 4180 | 149 | | 2720 | 423 | | 334 | 60.7 | | 2040 | 240 | |
| Mn | mg/kg | 9 | 325 | 42.6 | | 421 | 7.20 | | 888 | 59.0 | | 52.3 | 4.40 | | 434 | 35.2 | |
| Mo | mg/kg | 4 | 1.86 | 0.520 | | 1.63 | 1.18 | | 1.59 | 0.310 | | 0.880 | 0.170 | | 1.34 | 0.230 | |
| Na | mg/kg | 7 | 90.4 | 11.7 | | 229 | 74.3 | | 92.2 | 25.9 | | 20.0 | 10.4 | | 70.4 | 31.0 | |
| Ni | mg/kg | 9 | 13.0 | 0.800 | | 12.0 | 0.700 | | 13.0 | 1.20 | | 2.50 | 0.550 | | 8.60 | 0.580 | |
| P | mg/kg | 10 | 455 | 20.2 | | 891 | 32.6 | | 424 | 29.8 | | 425 | 20.0 | | 673 | 27.0 | |
| Pb | mg/kg | 8 | 10.3 | 1.31 | | 9.37 | 1.50 | | 22.4 | 1.95 | | 8.12 | 0.895 | | 12.3 | 1.50 | |
| S | mg/kg | 6 | 209 | 11.3 | | 135 | 17.0 | | 234 | 12.5 | | 96.2 | 13.7 | | 225 | 28.5 | |
| Sb | mg/kg | 1 | 96.7 | 0.000 | | 5.40 | 0.000 | | 5.90 | 0.000 | | | | | 3.50 | 0.000 | |
| Se | mg/kg | 3 | 0.537 | 0.243 | | 0.192 | 0.080 | | 0.900 | 0.088 | | 0.103 | 0.032 | | 0.461 | 0.270 | |
| Sn | mg/kg | | | | | | | | | | | | | | | | |
| Sr | mg/kg | 3 | 31.0 | 4.30 | | 26.0 | 2.20 | | 35.0 | 6.10 | | 4.00 | 0.640 | | 6.00 | 0.740 | |
| V | mg/kg | 3 | 36.3 | 14.0 | | 56.2 | 0.400 | | 65.9 | 8.50 | | 7.40 | 3.80 | | 25.8 | 7.40 | |
| Zn | mg/kg | 10 | 49.3 | 4.05 | | 80.3 | 2.60 | | 50.3 | 5.45 | | 19.0 | 2.45 | | 44.8 | 3.50 | |
| Hg (US-EPA 7470 or 7471) | mg/kg | 2 | 0.016 | 0.006 | | 0.029 | 0.000 | | 0.031 | 0.001 | | 0.016 | 0.006 | | 0.032 | 0.008 | |

1 - Values flagged exceed Warning Limits * * * 2.5 x MAD (Median Absolute Deviation) and Control Limits * * * 4 x MAD. * < " and * ND * vlues not recorded.
2 - Limits not compared to lab data for methods with < 7 labs reporting.