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Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: **Underworld Resources, Inc.**
1500 - 409 Granville Street
Vancouver BC V6C 1T2 Canada

Submitted By: Jodie Gibson
Receiving Lab: Canada-Vancouver
Received: August 31, 2009
Report Date: September 21, 2009
Page: 1 of 11

CERTIFICATE OF ANALYSIS

VAN09004098.1

CLIENT JOB INFORMATION

Project: CAT
Shipment ID:
P.O. Number
Number of Samples: 300

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Underworld Resources, Inc.
1500 - 409 Granville Street
Vancouver BC V6C 1T2
Canada

CC: Adrian Fleming
Rob McLeod

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description | Test Wgt (g) | Report Status | Lab |
|-------------|-------------------|--------------------------------------------|--------------|---------------|-----|
| SS80 | 300 | Dry at 60C sieve 100g to -80 mesh | | | VAN |
| Dry at 60C | 300 | Dry at 60C | | | VAN |
| 1DX15 | 300 | 1:1:1 Aqua Regia digestion ICP-MS analysis | 15 | Completed | VAN |

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Page: 2 of 11 Part 1

CERTIFICATE OF ANALYSIS

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| | Method Analyte Unit MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P |
| | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % |
| CAT 39249 | Soil | 0.5 | 127.3 | 4.8 | 42 | <0.1 | 42.8 | 19.2 | 155 | 1.74 | 6.3 | 0.3 | 1.6 | 1.0 | 17 | 0.1 | 0.5 | <0.1 | 45 | 0.30 | 0.046 |
| CAT 42572 | Soil | 1.0 | 96.4 | 17.3 | 79 | <0.1 | 157.2 | 36.3 | 913 | 5.07 | 9.6 | 0.9 | 0.6 | 8.9 | 117 | <0.1 | 0.4 | 0.1 | 131 | 1.09 | 0.163 |
| CAT 42573 | Soil | 1.1 | 70.2 | 17.2 | 76 | <0.1 | 63.3 | 20.5 | 871 | 4.34 | 21.2 | 0.9 | 12.2 | 7.8 | 85 | 0.1 | 0.8 | 0.2 | 93 | 0.79 | 0.085 |
| CAT 48042 | Soil | 0.4 | 84.0 | 2.7 | 36 | <0.1 | 17.0 | 12.0 | 199 | 1.81 | 1.9 | 0.3 | 3.3 | 1.2 | 25 | <0.1 | 0.4 | <0.1 | 52 | 0.44 | 0.088 |
| CAT 48043 | Soil | 0.5 | 98.3 | 5.0 | 52 | <0.1 | 32.1 | 13.8 | 424 | 2.52 | 5.1 | 0.8 | 3.8 | 2.2 | 28 | 0.1 | 0.5 | <0.1 | 55 | 0.53 | 0.055 |
| CAT 48044 | Soil | 0.4 | 37.4 | 7.1 | 50 | <0.1 | 19.8 | 9.8 | 403 | 2.46 | 6.7 | 0.6 | 1.7 | 2.9 | 33 | <0.1 | 0.5 | 0.1 | 51 | 0.64 | 0.046 |
| CAT 48050 | Soil | 0.6 | 85.9 | 2.8 | 35 | <0.1 | 102.8 | 18.3 | 178 | 1.67 | 6.1 | 0.2 | 3.7 | 1.1 | 14 | <0.1 | 0.3 | <0.1 | 35 | 0.28 | 0.033 |
| CAT 48053 | Soil | 0.7 | 34.3 | 12.5 | 52 | <0.1 | 33.7 | 11.0 | 290 | 2.78 | 8.8 | 0.9 | 5.6 | 4.6 | 31 | <0.1 | 0.4 | 0.2 | 59 | 0.39 | 0.062 |
| CAT 48055 | Soil | 1.0 | 32.9 | 13.4 | 51 | <0.1 | 26.2 | 8.8 | 201 | 2.92 | 9.6 | 1.4 | 2.5 | 6.2 | 17 | <0.1 | 0.6 | 0.2 | 59 | 0.17 | 0.039 |
| CAT 48056 | Soil | 1.0 | 59.0 | 9.5 | 67 | 0.1 | 53.4 | 14.7 | 738 | 4.05 | 6.3 | 1.9 | 4.5 | 9.0 | 37 | <0.1 | 0.4 | 0.2 | 104 | 0.44 | 0.100 |
| CAT 48058 | Soil | 1.3 | 45.7 | 15.4 | 87 | <0.1 | 40.2 | 16.8 | 505 | 4.56 | 6.1 | 2.4 | 2.0 | 12.7 | 29 | <0.1 | 0.5 | 0.2 | 71 | 0.20 | 0.029 |
| CAT 48059 | Soil | 0.9 | 25.1 | 10.5 | 53 | <0.1 | 31.3 | 12.6 | 272 | 3.34 | 8.9 | 0.9 | 3.8 | 5.7 | 23 | <0.1 | 0.5 | 0.2 | 69 | 0.19 | 0.029 |
| CAT 48064 | Soil | 1.2 | 23.8 | 15.3 | 72 | <0.1 | 27.0 | 11.8 | 331 | 3.54 | 10.2 | 0.9 | 16.2 | 7.0 | 18 | <0.1 | 0.4 | 0.2 | 62 | 0.15 | 0.032 |
| CAT 48066 | Soil | 0.9 | 37.1 | 16.7 | 81 | <0.1 | 30.0 | 11.6 | 369 | 3.63 | 6.1 | 1.5 | 1.0 | 11.3 | 30 | <0.1 | 0.4 | 0.2 | 63 | 0.23 | 0.021 |
| CAT 48067 | Soil | 1.3 | 31.7 | 21.3 | 80 | 0.1 | 26.0 | 11.1 | 512 | 3.37 | 7.1 | 1.4 | 2.2 | 8.6 | 24 | 0.1 | 0.3 | 0.2 | 68 | 0.23 | 0.048 |
| CAT 48068 | Soil | 1.2 | 72.8 | 22.9 | 97 | <0.1 | 51.1 | 21.0 | 647 | 4.57 | 2.6 | 1.5 | 1.6 | 12.2 | 21 | 0.1 | 0.3 | 0.2 | 71 | 0.12 | 0.022 |
| CAT 48069 | Soil | 1.2 | 29.0 | 20.2 | 99 | <0.1 | 24.4 | 14.6 | 548 | 4.64 | 6.0 | 1.0 | 1.3 | 12.7 | 14 | 0.1 | 0.3 | 0.2 | 87 | 0.13 | 0.046 |
| CAT 48070 | Soil | 1.2 | 18.7 | 10.1 | 47 | 0.1 | 23.0 | 11.0 | 252 | 2.89 | 9.6 | 0.6 | 1.3 | 3.0 | 17 | 0.2 | 0.6 | 0.2 | 67 | 0.15 | 0.034 |
| CAT 48071 | Soil | 0.8 | 24.2 | 7.9 | 46 | <0.1 | 19.5 | 8.4 | 200 | 2.46 | 7.4 | 0.8 | 3.3 | 3.4 | 20 | <0.1 | 0.4 | 0.1 | 60 | 0.22 | 0.041 |
| CAT 48072 | Soil | 0.9 | 33.7 | 10.4 | 72 | <0.1 | 32.4 | 11.1 | 252 | 3.28 | 7.0 | 0.8 | 1.8 | 3.5 | 18 | 0.1 | 0.4 | 0.2 | 87 | 0.19 | 0.050 |
| CAT 48073 | Soil | 1.5 | 37.6 | 11.5 | 57 | <0.1 | 31.0 | 11.3 | 251 | 3.05 | 8.8 | 1.6 | 41.3 | 5.4 | 23 | <0.1 | 0.6 | 0.2 | 68 | 0.23 | 0.025 |
| CAT 48074 | Soil | 0.9 | 32.9 | 20.6 | 76 | <0.1 | 35.5 | 11.1 | 323 | 3.10 | 4.9 | 1.1 | 14.4 | 5.9 | 23 | 0.2 | 0.3 | 0.2 | 73 | 0.32 | 0.066 |
| CAT 48075 | Soil | 0.5 | 48.4 | 9.2 | 84 | <0.1 | 341.7 | 22.5 | 395 | 3.37 | 6.5 | 0.8 | 1.4 | 2.6 | 28 | 0.2 | 0.2 | 0.1 | 78 | 0.41 | 0.055 |
| CAT 48076 | Soil | 0.5 | 38.6 | 13.4 | 110 | <0.1 | 118.9 | 18.8 | 654 | 4.47 | 12.6 | 1.1 | 2.6 | 10.2 | 27 | 0.2 | 0.3 | 0.1 | 85 | 0.45 | 0.075 |
| CAT 48077 | Soil | 0.5 | 48.3 | 18.2 | 119 | 0.1 | 188.7 | 25.4 | 688 | 3.41 | 5.6 | 0.9 | 2.2 | 5.3 | 36 | 0.3 | 0.3 | 0.2 | 80 | 0.55 | 0.074 |
| CAT 48078 | Soil | 0.4 | 37.5 | 12.0 | 82 | <0.1 | 301.7 | 33.9 | 784 | 3.43 | 3.1 | 1.1 | 2.3 | 6.6 | 33 | 0.1 | 0.2 | 0.1 | 63 | 0.50 | 0.058 |
| CAT 48079 | Soil | 1.0 | 24.0 | 17.6 | 79 | <0.1 | 26.9 | 13.4 | 676 | 2.95 | 5.2 | 1.2 | 2.5 | 6.3 | 47 | 0.2 | 0.3 | 0.2 | 65 | 0.67 | 0.097 |
| CAT 48080 | Soil | 0.9 | 32.3 | 15.9 | 104 | <0.1 | 33.1 | 18.3 | 902 | 3.61 | 7.9 | 1.0 | 8.8 | 6.2 | 43 | 0.2 | 0.2 | 0.2 | 73 | 0.87 | 0.315 |
| CAT 48081 | Soil | 1.0 | 23.4 | 9.4 | 81 | 0.1 | 22.4 | 11.7 | 433 | 3.38 | 5.2 | 0.8 | 1.2 | 5.3 | 22 | 0.1 | 0.2 | 0.1 | 74 | 0.28 | 0.055 |
| CAT 48085 | Soil | 0.9 | 29.6 | 7.8 | 63 | <0.1 | 23.8 | 10.8 | 437 | 3.09 | 9.0 | 0.8 | 3.1 | 4.7 | 26 | <0.1 | 0.6 | 0.1 | 67 | 0.33 | 0.036 |



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Report Date: September 21, 2009

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CERTIFICATE OF ANALYSIS

VAN09004098.1

| | Method Analyte Unit MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se |
| | | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm |
| | | 1 | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 |
| CAT 39249 | Soil | 4 | 60 | 0.74 | 102 | 0.079 | <1 | 1.16 | 0.019 | 0.06 | <0.1 | 0.01 | 2.6 | <0.1 | <0.05 | 3 | <0.5 |
| CAT 42572 | Soil | 39 | 188 | 2.47 | 716 | 0.214 | <1 | 2.83 | 0.030 | 1.04 | <0.1 | 0.02 | 10.2 | 0.4 | <0.05 | 9 | 0.6 |
| CAT 42573 | Soil | 30 | 84 | 1.20 | 462 | 0.120 | <1 | 2.13 | 0.020 | 0.49 | 0.1 | 0.02 | 8.6 | 0.3 | <0.05 | 8 | 0.7 |
| CAT 48042 | Soil | 5 | 35 | 0.78 | 245 | 0.123 | <1 | 1.09 | 0.025 | 0.26 | <0.1 | <0.01 | 2.8 | <0.1 | <0.05 | 4 | <0.5 |
| CAT 48043 | Soil | 9 | 49 | 0.74 | 202 | 0.062 | 1 | 1.22 | 0.019 | 0.09 | 0.1 | 0.02 | 5.7 | <0.1 | <0.05 | 4 | 0.7 |
| CAT 48044 | Soil | 11 | 27 | 0.66 | 259 | 0.084 | 2 | 1.52 | 0.022 | 0.13 | 0.2 | 0.03 | 5.3 | <0.1 | <0.05 | 5 | 0.6 |
| CAT 48050 | Soil | 4 | 118 | 1.12 | 78 | 0.068 | 1 | 1.05 | 0.015 | 0.04 | <0.1 | 0.01 | 1.8 | <0.1 | <0.05 | 3 | <0.5 |
| CAT 48053 | Soil | 16 | 45 | 0.71 | 284 | 0.100 | 1 | 1.81 | 0.017 | 0.09 | 0.1 | 0.03 | 4.6 | 0.1 | <0.05 | 5 | <0.5 |
| CAT 48055 | Soil | 15 | 37 | 0.49 | 426 | 0.058 | 1 | 2.16 | 0.014 | 0.06 | 0.2 | 0.03 | 4.7 | 0.1 | <0.05 | 6 | 0.7 |
| CAT 48056 | Soil | 25 | 81 | 1.49 | 443 | 0.165 | 1 | 2.91 | 0.018 | 0.71 | 0.2 | 0.02 | 8.7 | 0.2 | <0.05 | 9 | 0.6 |
| CAT 48058 | Soil | 37 | 66 | 1.03 | 314 | 0.205 | 1 | 2.76 | 0.013 | 0.53 | <0.1 | 0.02 | 7.7 | 0.4 | <0.05 | 9 | 0.7 |
| CAT 48059 | Soil | 13 | 58 | 0.70 | 183 | 0.117 | <1 | 2.22 | 0.011 | 0.16 | <0.1 | 0.03 | 4.0 | 0.2 | <0.05 | 6 | <0.5 |
| CAT 48064 | Soil | 17 | 43 | 0.60 | 140 | 0.094 | 2 | 2.14 | 0.014 | 0.19 | 0.1 | 0.02 | 3.7 | 0.2 | <0.05 | 6 | <0.5 |
| CAT 48066 | Soil | 33 | 54 | 0.82 | 268 | 0.150 | 1 | 2.31 | 0.013 | 0.32 | <0.1 | 0.01 | 4.9 | 0.3 | <0.05 | 7 | <0.5 |
| CAT 48067 | Soil | 27 | 42 | 0.56 | 204 | 0.103 | 1 | 2.12 | 0.012 | 0.19 | 0.1 | 0.02 | 4.2 | 0.2 | <0.05 | 7 | <0.5 |
| CAT 48068 | Soil | 47 | 57 | 0.92 | 342 | 0.242 | <1 | 2.58 | 0.011 | 0.82 | <0.1 | 0.02 | 7.2 | 0.5 | <0.05 | 8 | 0.6 |
| CAT 48069 | Soil | 12 | 63 | 0.94 | 210 | 0.190 | <1 | 2.42 | 0.009 | 0.65 | 0.1 | 0.01 | 7.2 | 0.5 | <0.05 | 12 | 0.7 |
| CAT 48070 | Soil | 10 | 35 | 0.45 | 255 | 0.066 | 1 | 1.97 | 0.014 | 0.04 | 0.2 | 0.01 | 2.7 | 0.1 | <0.05 | 5 | <0.5 |
| CAT 48071 | Soil | 13 | 35 | 0.51 | 248 | 0.082 | 1 | 1.53 | 0.016 | 0.06 | 0.1 | <0.01 | 3.5 | <0.1 | <0.05 | 4 | 0.5 |
| CAT 48072 | Soil | 14 | 55 | 0.91 | 190 | 0.169 | 1 | 2.15 | 0.016 | 0.30 | 0.1 | 0.01 | 4.3 | 0.2 | <0.05 | 7 | <0.5 |
| CAT 48073 | Soil | 18 | 45 | 0.59 | 434 | 0.087 | 2 | 1.90 | 0.015 | 0.07 | 0.1 | 0.02 | 5.0 | 0.1 | <0.05 | 5 | 0.6 |
| CAT 48074 | Soil | 22 | 50 | 0.65 | 296 | 0.116 | 2 | 1.62 | 0.013 | 0.20 | 0.1 | 0.02 | 4.7 | 0.2 | <0.05 | 6 | <0.5 |
| CAT 48075 | Soil | 11 | 306 | 2.61 | 427 | 0.077 | 3 | 1.98 | 0.019 | 0.10 | <0.1 | 0.02 | 6.6 | 0.2 | <0.05 | 7 | <0.5 |
| CAT 48076 | Soil | 24 | 105 | 1.42 | 467 | 0.214 | <1 | 2.34 | 0.018 | 0.64 | 0.1 | 0.02 | 7.3 | 0.6 | <0.05 | 10 | <0.5 |
| CAT 48077 | Soil | 17 | 152 | 1.83 | 503 | 0.155 | 2 | 2.03 | 0.024 | 0.38 | 0.1 | 0.03 | 6.7 | 0.3 | <0.05 | 7 | 0.6 |
| CAT 48078 | Soil | 26 | 250 | 2.36 | 392 | 0.146 | 2 | 2.02 | 0.017 | 0.33 | 0.1 | 0.03 | 6.3 | 0.4 | <0.05 | 7 | <0.5 |
| CAT 48079 | Soil | 24 | 45 | 0.69 | 503 | 0.109 | 2 | 1.52 | 0.018 | 0.20 | 0.2 | 0.04 | 4.8 | 0.2 | <0.05 | 6 | 0.6 |
| CAT 48080 | Soil | 26 | 46 | 1.61 | 377 | 0.142 | 1 | 2.19 | 0.017 | 0.41 | <0.1 | 0.01 | 5.0 | 0.3 | <0.05 | 8 | <0.5 |
| CAT 48081 | Soil | 22 | 46 | 0.83 | 292 | 0.172 | <1 | 2.02 | 0.014 | 0.33 | 0.1 | 0.02 | 4.3 | 0.2 | <0.05 | 7 | 0.5 |
| CAT 48085 | Soil | 20 | 38 | 0.66 | 343 | 0.118 | <1 | 1.61 | 0.021 | 0.18 | 0.1 | 0.03 | 6.7 | 0.1 | <0.05 | 6 | <0.5 |



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Page: 3 of 11 Part 1

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| | | Method Analyte Unit MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P |
| | | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % |
| | | | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.1 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 |
| CAT 51312 | Soil | | 4.9 | 57.0 | 8.6 | 104 | 0.2 | 23.6 | 8.9 | 519 | 3.39 | 5.5 | 2.1 | 4.1 | 4.0 | 39 | 0.2 | 0.4 | 0.3 | 136 | 0.38 | 0.157 |
| CAT 51313 | Soil | | 6.0 | 94.9 | 7.3 | 117 | 0.4 | 48.1 | 11.3 | 357 | 3.50 | 7.5 | 2.4 | 5.0 | 4.1 | 35 | 0.3 | 0.6 | 0.2 | 121 | 0.36 | 0.097 |
| CAT 51314 | Soil | | 5.3 | 84.2 | 7.9 | 103 | 0.4 | 46.4 | 11.3 | 349 | 3.46 | 8.9 | 2.0 | 2.0 | 3.8 | 34 | 0.3 | 0.6 | 0.2 | 112 | 0.36 | 0.090 |
| CAT 51315 | Soil | | 2.6 | 51.7 | 9.3 | 95 | 0.4 | 21.4 | 8.2 | 416 | 3.37 | 9.6 | 1.0 | <0.5 | 3.9 | 29 | 0.3 | 1.2 | 0.2 | 90 | 0.22 | 0.094 |
| CAT 51316 | Soil | | 2.3 | 38.2 | 6.7 | 84 | 0.4 | 20.8 | 7.9 | 484 | 3.05 | 6.8 | 1.0 | 2.3 | 3.1 | 28 | 0.2 | 0.3 | 0.1 | 106 | 0.23 | 0.129 |
| CAT 51317 | Soil | | 1.7 | 33.6 | 9.3 | 128 | 0.2 | 40.1 | 12.0 | 670 | 3.27 | 25.0 | 0.8 | <0.5 | 1.8 | 19 | 0.8 | 3.5 | 0.2 | 70 | 0.21 | 0.072 |
| CAT 51318 | Soil | | 1.2 | 44.6 | 7.8 | 53 | <0.1 | 23.0 | 10.4 | 316 | 2.84 | 7.0 | 1.1 | 3.2 | 4.4 | 22 | <0.1 | 0.5 | 0.2 | 68 | 0.20 | 0.030 |
| CAT 51319 | Soil | | 1.1 | 35.3 | 8.6 | 59 | 0.1 | 26.8 | 11.1 | 262 | 2.95 | 9.4 | 1.0 | 2.6 | 4.2 | 19 | 0.1 | 0.7 | 0.2 | 69 | 0.19 | 0.030 |
| CAT 51320 | Soil | | 1.1 | 36.9 | 6.8 | 47 | 0.1 | 22.0 | 9.5 | 226 | 2.42 | 7.3 | 0.8 | 1.6 | 2.8 | 22 | 0.1 | 0.4 | 0.1 | 65 | 0.23 | 0.056 |
| CAT 51322 | Soil | | 0.8 | 45.4 | 5.3 | 74 | <0.1 | 56.1 | 17.8 | 229 | 3.51 | 6.6 | 0.6 | 2.9 | 3.3 | 22 | 0.2 | 0.4 | 0.1 | 117 | 0.39 | 0.113 |
| CAT 51323 | Soil | | 0.9 | 42.4 | 6.4 | 76 | 0.2 | 31.2 | 10.1 | 297 | 2.87 | 7.9 | 0.9 | 1.2 | 3.8 | 28 | 0.3 | 0.5 | 0.1 | 80 | 0.32 | 0.045 |
| CAT 51324 | Soil | | 1.0 | 16.1 | 8.2 | 40 | 0.2 | 16.3 | 8.5 | 243 | 2.43 | 7.5 | 0.6 | 2.0 | 2.8 | 24 | <0.1 | 0.4 | 0.2 | 65 | 0.29 | 0.038 |
| CAT 51325 | Soil | | 2.0 | 48.3 | 7.2 | 75 | 0.1 | 25.0 | 6.4 | 138 | 3.17 | 8.3 | 1.3 | 2.2 | 5.0 | 30 | 0.1 | 1.0 | 0.2 | 99 | 0.22 | 0.054 |
| CAT 51326 | Soil | | 0.9 | 23.8 | 9.2 | 51 | 0.2 | 25.5 | 11.0 | 289 | 2.83 | 9.3 | 1.3 | 1.8 | 4.3 | 27 | 0.1 | 0.6 | 0.2 | 69 | 0.32 | 0.037 |
| CAT 51327 | Soil | | 1.1 | 21.7 | 7.2 | 44 | 0.1 | 22.3 | 10.1 | 327 | 2.47 | 10.7 | 0.5 | 2.0 | 2.7 | 24 | 0.2 | 0.5 | 0.1 | 63 | 0.31 | 0.054 |
| CAT 51336 | Soil | | 1.0 | 36.7 | 7.0 | 55 | 0.2 | 32.2 | 10.4 | 341 | 2.46 | 7.7 | 1.3 | 2.7 | 4.0 | 31 | 0.1 | 0.5 | 0.1 | 59 | 0.41 | 0.078 |
| CAT 51342 | Soil | | 1.1 | 21.4 | 8.0 | 58 | 0.1 | 23.4 | 10.9 | 362 | 2.47 | 8.5 | 0.6 | 0.7 | 3.0 | 29 | 0.1 | 0.5 | 0.2 | 63 | 0.39 | 0.063 |
| CAT 51343 | Soil | | 0.7 | 28.6 | 9.1 | 72 | <0.1 | 21.5 | 12.1 | 572 | 3.31 | 7.3 | 0.5 | 2.5 | 3.5 | 27 | 0.1 | 0.4 | 0.2 | 78 | 0.36 | 0.045 |
| CAT 51383 | Soil | | 3.8 | 48.9 | 7.3 | 100 | 0.4 | 30.7 | 10.2 | 515 | 2.74 | 8.1 | 1.8 | 4.1 | 3.5 | 31 | 0.6 | 0.6 | 0.2 | 83 | 0.32 | 0.105 |
| CAT 51384 | Soil | | 1.9 | 47.4 | 6.6 | 73 | 0.2 | 29.0 | 10.8 | 393 | 2.68 | 6.7 | 1.2 | 3.2 | 3.7 | 28 | 0.2 | 0.6 | 0.1 | 83 | 0.33 | 0.059 |
| CAT 51385 | Soil | | 1.2 | 40.1 | 6.0 | 95 | 0.1 | 42.0 | 12.4 | 570 | 3.19 | 4.2 | 1.1 | 1.2 | 3.8 | 23 | 0.3 | 0.4 | 0.1 | 92 | 0.43 | 0.155 |
| CAT 51386 | Soil | | 1.6 | 32.3 | 8.2 | 84 | 0.5 | 26.2 | 14.3 | 676 | 3.09 | 6.8 | 0.8 | 0.8 | 3.3 | 22 | 0.4 | 0.5 | 0.2 | 90 | 0.21 | 0.104 |
| CAT 51388 | Soil | | 1.3 | 20.1 | 9.0 | 62 | 0.3 | 22.4 | 11.3 | 546 | 2.87 | 9.3 | 0.6 | 1.2 | 2.5 | 28 | 0.3 | 0.5 | 0.2 | 75 | 0.33 | 0.140 |
| CAT 51391 | Soil | | 0.9 | 58.9 | 5.8 | 83 | 0.1 | 34.6 | 8.5 | 279 | 2.50 | 5.7 | 1.6 | 3.6 | 3.9 | 20 | 0.2 | 0.5 | 0.1 | 63 | 0.24 | 0.053 |
| CAT 51393 | Soil | | 1.1 | 17.1 | 8.2 | 59 | 0.2 | 22.8 | 10.2 | 252 | 2.89 | 11.3 | 0.4 | 1.3 | 2.6 | 21 | 0.1 | 0.5 | 0.2 | 66 | 0.25 | 0.038 |
| CAT 51394 | Soil | | 1.3 | 38.4 | 5.4 | 68 | 0.2 | 29.6 | 10.6 | 342 | 2.85 | 5.8 | 0.8 | 0.9 | 2.8 | 26 | 0.2 | 0.4 | 0.1 | 70 | 0.25 | 0.066 |
| CAT 51395 | Soil | | 1.2 | 23.5 | 8.3 | 59 | 0.2 | 24.5 | 12.4 | 436 | 2.75 | 25.4 | 0.5 | 5.6 | 2.9 | 25 | 0.3 | 1.3 | 0.2 | 62 | 0.27 | 0.045 |
| CAT 51396 | Soil | | 2.2 | 30.0 | 8.6 | 77 | 0.1 | 22.3 | 7.8 | 369 | 3.00 | 12.2 | 0.8 | 0.6 | 2.9 | 24 | 0.3 | 1.2 | 0.2 | 70 | 0.17 | 0.057 |
| CAT 51397 | Soil | | 0.9 | 25.1 | 6.7 | 43 | <0.1 | 20.5 | 8.6 | 232 | 2.31 | 8.2 | 0.5 | 2.0 | 2.4 | 24 | 0.1 | 0.4 | 0.1 | 57 | 0.29 | 0.054 |
| CAT 51398 | Soil | | 4.0 | 31.8 | 11.2 | 48 | 0.1 | 18.0 | 8.8 | 376 | 2.78 | 270.8 | 0.8 | 1.7 | 1.7 | 25 | 0.7 | 22.5 | 0.2 | 42 | 0.12 | 0.075 |



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Project: CAT
Report Date: September 21, 2009

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CERTIFICATE OF ANALYSIS

VAN09004098.1

| | Method Analyte Unit MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se |
| | | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm |
| | | 1 | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 |
| CAT 51312 | Soil | 16 | 132 | 1.32 | 560 | 0.143 | 2 | 2.27 | 0.017 | 0.63 | 0.2 | 0.01 | 4.8 | 0.5 | 0.15 | 7 | 3.3 |
| CAT 51313 | Soil | 15 | 83 | 0.97 | 395 | 0.118 | <1 | 1.99 | 0.017 | 0.33 | 0.2 | 0.01 | 4.0 | 0.3 | 0.09 | 7 | 2.1 |
| CAT 51314 | Soil | 14 | 76 | 0.89 | 359 | 0.111 | 1 | 2.03 | 0.014 | 0.28 | 0.1 | 0.02 | 3.8 | 0.3 | 0.07 | 7 | 1.4 |
| CAT 51315 | Soil | 15 | 45 | 0.60 | 335 | 0.081 | 1 | 1.56 | 0.020 | 0.26 | 0.2 | 0.01 | 3.4 | 0.2 | 0.16 | 5 | 1.8 |
| CAT 51316 | Soil | 11 | 63 | 0.96 | 389 | 0.134 | <1 | 2.05 | 0.017 | 0.38 | 0.1 | <0.01 | 3.4 | 0.2 | 0.07 | 7 | 1.0 |
| CAT 51317 | Soil | 7 | 33 | 0.35 | 304 | 0.039 | <1 | 1.52 | 0.012 | 0.06 | 0.2 | 0.01 | 3.0 | <0.1 | <0.05 | 5 | <0.5 |
| CAT 51318 | Soil | 15 | 42 | 0.57 | 302 | 0.097 | <1 | 1.88 | 0.016 | 0.18 | <0.1 | 0.02 | 4.7 | 0.1 | <0.05 | 6 | <0.5 |
| CAT 51319 | Soil | 16 | 38 | 0.52 | 254 | 0.082 | <1 | 1.80 | 0.012 | 0.11 | 0.1 | 0.02 | 4.0 | 0.1 | <0.05 | 5 | <0.5 |
| CAT 51320 | Soil | 10 | 37 | 0.54 | 211 | 0.089 | 1 | 1.60 | 0.015 | 0.07 | 0.1 | 0.01 | 2.8 | 0.1 | <0.05 | 5 | <0.5 |
| CAT 51322 | Soil | 13 | 92 | 1.23 | 498 | 0.175 | 1 | 2.30 | 0.018 | 0.56 | 0.1 | <0.01 | 4.2 | 0.2 | <0.05 | 8 | 0.5 |
| CAT 51323 | Soil | 16 | 57 | 0.75 | 433 | 0.133 | <1 | 1.83 | 0.019 | 0.23 | 0.1 | 0.02 | 4.7 | 0.2 | <0.05 | 6 | 0.7 |
| CAT 51324 | Soil | 11 | 32 | 0.43 | 280 | 0.071 | 1 | 1.75 | 0.018 | 0.03 | 0.1 | 0.02 | 3.3 | 0.1 | <0.05 | 5 | <0.5 |
| CAT 51325 | Soil | 18 | 56 | 0.62 | 467 | 0.080 | 1 | 1.59 | 0.019 | 0.26 | 0.1 | 0.01 | 4.7 | 0.2 | 0.07 | 5 | 1.1 |
| CAT 51326 | Soil | 15 | 41 | 0.53 | 347 | 0.078 | <1 | 2.07 | 0.018 | 0.03 | 0.1 | 0.02 | 4.6 | 0.1 | <0.05 | 6 | <0.5 |
| CAT 51327 | Soil | 10 | 33 | 0.48 | 238 | 0.075 | 1 | 1.51 | 0.015 | 0.05 | 0.1 | 0.02 | 2.8 | <0.1 | <0.05 | 5 | <0.5 |
| CAT 51336 | Soil | 14 | 34 | 0.53 | 371 | 0.068 | 2 | 1.46 | 0.020 | 0.07 | 0.2 | 0.03 | 4.3 | <0.1 | <0.05 | 4 | 0.5 |
| CAT 51342 | Soil | 11 | 33 | 0.51 | 288 | 0.075 | 1 | 1.52 | 0.020 | 0.09 | 0.2 | 0.01 | 2.8 | <0.1 | <0.05 | 4 | <0.5 |
| CAT 51343 | Soil | 13 | 40 | 0.91 | 311 | 0.145 | 1 | 1.71 | 0.021 | 0.29 | 0.1 | 0.02 | 6.7 | 0.2 | <0.05 | 6 | <0.5 |
| CAT 51383 | Soil | 15 | 47 | 0.70 | 345 | 0.097 | 1 | 1.64 | 0.018 | 0.24 | 0.2 | 0.01 | 3.6 | 0.2 | 0.05 | 6 | 1.0 |
| CAT 51384 | Soil | 14 | 51 | 0.73 | 401 | 0.119 | <1 | 1.60 | 0.017 | 0.18 | 0.1 | 0.01 | 3.8 | 0.1 | <0.05 | 5 | 1.0 |
| CAT 51385 | Soil | 14 | 69 | 0.75 | 344 | 0.120 | <1 | 1.78 | 0.018 | 0.51 | <0.1 | <0.01 | 4.4 | 0.3 | <0.05 | 6 | <0.5 |
| CAT 51386 | Soil | 12 | 48 | 0.65 | 358 | 0.104 | <1 | 1.80 | 0.019 | 0.26 | 0.1 | 0.01 | 3.5 | 0.1 | <0.05 | 6 | <0.5 |
| CAT 51388 | Soil | 10 | 35 | 0.52 | 483 | 0.069 | <1 | 1.99 | 0.017 | 0.09 | 0.2 | <0.01 | 3.2 | <0.1 | <0.05 | 6 | <0.5 |
| CAT 51391 | Soil | 16 | 48 | 0.68 | 429 | 0.103 | <1 | 1.42 | 0.013 | 0.34 | <0.1 | 0.02 | 4.7 | 0.2 | <0.05 | 5 | <0.5 |
| CAT 51393 | Soil | 8 | 35 | 0.52 | 331 | 0.061 | 1 | 1.89 | 0.010 | 0.09 | 0.1 | <0.01 | 2.9 | <0.1 | <0.05 | 5 | <0.5 |
| CAT 51394 | Soil | 9 | 46 | 0.67 | 370 | 0.088 | <1 | 1.53 | 0.012 | 0.32 | <0.1 | <0.01 | 3.2 | 0.1 | <0.05 | 5 | <0.5 |
| CAT 51395 | Soil | 9 | 34 | 0.48 | 281 | 0.053 | <1 | 1.59 | 0.012 | 0.08 | 0.1 | 0.01 | 3.0 | <0.1 | <0.05 | 5 | <0.5 |
| CAT 51396 | Soil | 11 | 40 | 0.55 | 423 | 0.061 | <1 | 1.49 | 0.010 | 0.20 | 0.1 | 0.02 | 3.5 | 0.1 | <0.05 | 5 | 0.6 |
| CAT 51397 | Soil | 9 | 32 | 0.52 | 261 | 0.064 | <1 | 1.51 | 0.014 | 0.06 | 0.1 | 0.01 | 2.8 | <0.1 | <0.05 | 4 | <0.5 |
| CAT 51398 | Soil | 8 | 22 | 0.23 | 227 | 0.038 | <1 | 0.79 | 0.009 | 0.12 | 0.1 | 0.01 | 2.2 | 0.1 | 0.05 | 3 | 1.3 |



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Project: CAT
Report Date: September 21, 2009

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CERTIFICATE OF ANALYSIS

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| | Method Analyte Unit MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|------------|------------|------------|----------|------------|------------|------------|----------|-----------|------------|------------|------------|------------|----------|------------|------------|------------|----------|-----------|
| | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| | | ppm 0.1 | ppm 0.1 | ppm 0.1 | ppm 1 | ppm 0.1 | ppm 0.1 | ppm 0.1 | ppm 1 | % 0.01 | ppm 0.5 | ppm 0.1 | ppb 0.5 | ppm 0.1 | ppm 1 | ppm 0.1 | ppm 0.1 | ppm 0.1 | ppm 2 | % 0.01 |
| CAT 51399 | Soil | 2.1 | 64.0 | 7.7 | 135 | <0.1 | 71.0 | 14.7 | 480 | 3.70 | 21.7 | 2.1 | 2.6 | 7.0 | 25 | 0.2 | 0.8 | 0.1 | 76 | 0.27 |
| CAT 51400 | Soil | 1.7 | 53.4 | 7.2 | 112 | 0.1 | 38.0 | 10.5 | 411 | 3.49 | 8.7 | 1.3 | 3.6 | 5.3 | 28 | 0.2 | 0.5 | 0.1 | 104 | 0.30 |
| CAT 51401 | Soil | 1.8 | 40.9 | 6.5 | 84 | 0.1 | 29.8 | 11.8 | 277 | 3.01 | 12.8 | 0.9 | 4.4 | 3.2 | 22 | 0.3 | 0.7 | 0.1 | 83 | 0.26 |
| CAT 51402 | Soil | 1.6 | 74.2 | 7.3 | 108 | 0.1 | 42.6 | 11.8 | 567 | 3.53 | 5.1 | 1.5 | 2.3 | 4.1 | 31 | 0.3 | 0.4 | 0.1 | 132 | 0.35 |
| CAT 51403 | Soil | 1.8 | 64.5 | 7.2 | 118 | 0.1 | 43.2 | 14.1 | 723 | 4.04 | 7.4 | 0.9 | 1.3 | 4.1 | 29 | 0.3 | 0.5 | 0.1 | 120 | 0.25 |
| CAT 51404 | Soil | 2.1 | 46.5 | 5.8 | 83 | 0.1 | 31.2 | 9.2 | 316 | 2.95 | 6.6 | 1.0 | 2.2 | 2.9 | 28 | 0.2 | 0.5 | 0.1 | 79 | 0.30 |
| CAT 51406 | Soil | 1.2 | 19.9 | 7.8 | 76 | 0.1 | 24.2 | 10.8 | 453 | 2.67 | 9.4 | 0.6 | 0.8 | 3.1 | 25 | 0.3 | 0.6 | 0.2 | 60 | 0.32 |
| CAT 51407 | Soil | 1.6 | 68.8 | 6.5 | 121 | 0.4 | 33.3 | 12.9 | 507 | 3.81 | 12.2 | 3.2 | 6.5 | 3.9 | 39 | 0.3 | 0.6 | 0.1 | 120 | 0.40 |
| CAT 51408 | Soil | 2.2 | 93.6 | 7.1 | 160 | <0.1 | 85.2 | 19.2 | 972 | 4.32 | 7.8 | 1.2 | 4.7 | 4.7 | 39 | 0.3 | 0.6 | 0.1 | 112 | 0.42 |
| CAT 51409 | Soil | 0.9 | 34.1 | 8.2 | 53 | <0.1 | 32.7 | 12.1 | 499 | 2.73 | 10.0 | 0.5 | 3.5 | 3.8 | 30 | <0.1 | 0.6 | 0.1 | 61 | 0.48 |
| CAT 51415 | Soil | 1.0 | 42.6 | 6.8 | 76 | 0.1 | 53.7 | 18.8 | 544 | 3.63 | 9.3 | 0.9 | 4.2 | 3.3 | 40 | 0.1 | 0.5 | 0.1 | 74 | 0.59 |
| CAT 51416 | Soil | 2.3 | 63.3 | 13.7 | 112 | <0.1 | 45.8 | 14.1 | 557 | 4.15 | 5.2 | 1.1 | 4.1 | 6.2 | 28 | 0.2 | 0.3 | 0.2 | 133 | 0.24 |
| CAT 51417 | Soil | 1.4 | 26.0 | 11.5 | 64 | <0.1 | 25.3 | 8.5 | 298 | 2.86 | 6.2 | 0.6 | 1.1 | 3.6 | 17 | 0.1 | 0.2 | 0.2 | 73 | 0.15 |
| CAT 51418 | Soil | 1.0 | 31.0 | 11.0 | 75 | <0.1 | 25.2 | 11.2 | 310 | 3.26 | 9.9 | 1.5 | 10.1 | 6.6 | 15 | 0.1 | 0.5 | 0.1 | 69 | 0.14 |
| CAT 51419 | Soil | 0.9 | 46.3 | 13.7 | 149 | <0.1 | 55.3 | 22.5 | 579 | 4.52 | 3.7 | 0.9 | 1.2 | 8.4 | 37 | 0.1 | 0.2 | 0.1 | 65 | 0.28 |
| CAT 51420 | Soil | 1.3 | 22.7 | 9.6 | 56 | <0.1 | 26.6 | 12.4 | 285 | 3.55 | 11.2 | 0.6 | 1.6 | 3.9 | 18 | <0.1 | 0.5 | 0.1 | 73 | 0.17 |
| CAT 51421 | Soil | 0.9 | 27.7 | 12.1 | 56 | <0.1 | 26.1 | 11.8 | 346 | 3.14 | 8.5 | 1.4 | 2.7 | 7.0 | 25 | 0.1 | 0.4 | 0.2 | 66 | 0.23 |
| CAT 51422 | Soil | 0.9 | 25.3 | 11.8 | 62 | <0.1 | 23.8 | 10.9 | 296 | 2.95 | 8.9 | 1.0 | 2.7 | 4.9 | 19 | 0.2 | 0.4 | 0.2 | 63 | 0.19 |
| CAT 51423 | Soil | 0.8 | 31.1 | 19.2 | 84 | 0.1 | 27.4 | 11.2 | 301 | 2.89 | 6.1 | 1.0 | 7.1 | 3.3 | 23 | 0.2 | 0.2 | 0.2 | 59 | 0.22 |
| CAT 51424 | Soil | 0.8 | 32.1 | 12.0 | 85 | <0.1 | 31.2 | 14.2 | 390 | 3.27 | 5.2 | 1.1 | 2.3 | 7.4 | 19 | <0.1 | 0.3 | 0.1 | 64 | 0.20 |
| CAT 51425 | Soil | 2.2 | 46.7 | 21.6 | 94 | 0.1 | 38.8 | 17.1 | 537 | 3.75 | 6.2 | 1.3 | 26.6 | 7.0 | 26 | 0.2 | 0.3 | 0.2 | 82 | 0.19 |
| CAT 51426 | Soil | 2.2 | 41.9 | 14.4 | 101 | <0.1 | 37.0 | 12.6 | 380 | 3.79 | 6.6 | 1.1 | 11.0 | 6.5 | 23 | 0.2 | 0.3 | 0.2 | 90 | 0.20 |
| CAT 51427 | Soil | 2.0 | 50.1 | 15.5 | 99 | 0.1 | 38.8 | 15.6 | 537 | 4.01 | 5.2 | 1.6 | 5.4 | 7.6 | 28 | 0.2 | 0.2 | 0.2 | 76 | 0.22 |
| CAT 51428 | Soil | 2.4 | 57.7 | 16.4 | 109 | 0.1 | 39.8 | 13.4 | 417 | 3.87 | 9.7 | 2.1 | 19.3 | 8.1 | 26 | 0.3 | 0.4 | 0.2 | 92 | 0.24 |
| CAT 51429 | Soil | 1.9 | 49.5 | 14.8 | 103 | 0.1 | 34.1 | 10.9 | 329 | 3.71 | 18.1 | 1.1 | 2.4 | 5.6 | 32 | 0.2 | 0.5 | 0.2 | 94 | 0.17 |
| CAT 51430 | Soil | 1.8 | 54.0 | 11.8 | 99 | <0.1 | 38.4 | 14.1 | 338 | 3.69 | 27.4 | 1.3 | 2.0 | 6.1 | 32 | 0.2 | 0.5 | 0.2 | 99 | 0.17 |
| CAT 51431 | Soil | 1.5 | 38.8 | 15.5 | 73 | <0.1 | 33.8 | 11.8 | 329 | 3.13 | 9.1 | 0.9 | 3.0 | 5.0 | 20 | 0.2 | 0.4 | 0.2 | 69 | 0.16 |
| CAT 51432 | Soil | 0.9 | 33.9 | 18.8 | 66 | <0.1 | 30.4 | 9.5 | 255 | 2.92 | 7.9 | 0.7 | 0.7 | 5.6 | 16 | <0.1 | 0.4 | 0.2 | 86 | 0.18 |
| CAT 51433 | Soil | 0.7 | 49.2 | 9.4 | 72 | <0.1 | 40.1 | 17.2 | 347 | 3.28 | 7.0 | 0.3 | 1.3 | 2.1 | 28 | <0.1 | 0.4 | 0.1 | 88 | 0.34 |
| CAT 51434 | Soil | 0.6 | 30.2 | 9.5 | 67 | <0.1 | 30.9 | 12.1 | 356 | 3.16 | 6.6 | 1.2 | 1.6 | 9.6 | 21 | 0.1 | 0.4 | 0.2 | 62 | 0.28 |



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Project: CAT
Report Date: September 21, 2009

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CERTIFICATE OF ANALYSIS

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| | Method Analyte Unit MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se |
| | | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm |
| | | 1 | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 |
| CAT 51399 | Soil | 19 | 77 | 0.74 | 400 | 0.093 | <1 | 1.44 | 0.011 | 0.35 | <0.1 | 0.01 | 5.2 | 0.2 | <0.05 | 5 | 1.1 |
| CAT 51400 | Soil | 20 | 78 | 0.98 | 478 | 0.123 | <1 | 2.01 | 0.012 | 0.61 | <0.1 | 0.01 | 4.4 | 0.3 | <0.05 | 7 | 0.8 |
| CAT 51401 | Soil | 12 | 54 | 0.72 | 481 | 0.092 | <1 | 1.84 | 0.011 | 0.23 | 0.1 | 0.02 | 3.3 | 0.2 | <0.05 | 6 | <0.5 |
| CAT 51402 | Soil | 18 | 88 | 1.12 | 969 | 0.171 | <1 | 1.97 | 0.014 | 0.72 | 0.1 | <0.01 | 5.7 | 0.2 | <0.05 | 8 | 0.6 |
| CAT 51403 | Soil | 16 | 89 | 1.28 | 596 | 0.184 | <1 | 2.44 | 0.013 | 1.00 | 0.1 | 0.01 | 4.5 | 0.3 | <0.05 | 9 | <0.5 |
| CAT 51404 | Soil | 12 | 51 | 0.69 | 368 | 0.097 | <1 | 1.39 | 0.012 | 0.29 | 0.2 | 0.01 | 3.6 | 0.1 | <0.05 | 5 | 0.7 |
| CAT 51406 | Soil | 10 | 36 | 0.50 | 339 | 0.070 | 2 | 1.36 | 0.018 | 0.13 | 0.2 | 0.01 | 3.9 | <0.1 | <0.05 | 4 | <0.5 |
| CAT 51407 | Soil | 15 | 56 | 1.15 | 472 | 0.188 | <1 | 2.15 | 0.015 | 0.84 | <0.1 | 0.03 | 7.0 | 0.3 | 0.05 | 8 | 0.9 |
| CAT 51408 | Soil | 19 | 80 | 1.07 | 470 | 0.155 | <1 | 1.91 | 0.014 | 0.64 | 0.1 | 0.03 | 8.6 | 0.3 | <0.05 | 8 | 1.2 |
| CAT 51409 | Soil | 14 | 33 | 0.56 | 317 | 0.079 | 1 | 1.34 | 0.022 | 0.14 | 0.2 | 0.02 | 4.7 | <0.1 | <0.05 | 4 | <0.5 |
| CAT 51415 | Soil | 13 | 42 | 0.92 | 410 | 0.139 | <1 | 1.74 | 0.025 | 0.37 | 0.1 | 0.03 | 5.6 | 0.1 | <0.05 | 7 | <0.5 |
| CAT 51416 | Soil | 19 | 91 | 1.27 | 661 | 0.199 | <1 | 2.61 | 0.012 | 0.42 | <0.1 | 0.01 | 7.1 | 0.3 | <0.05 | 11 | 0.5 |
| CAT 51417 | Soil | 11 | 45 | 0.64 | 331 | 0.132 | <1 | 1.59 | 0.010 | 0.25 | 0.1 | 0.01 | 3.4 | 0.1 | <0.05 | 8 | <0.5 |
| CAT 51418 | Soil | 20 | 45 | 0.62 | 243 | 0.088 | 1 | 2.22 | 0.010 | 0.11 | 0.1 | 0.03 | 4.1 | 0.1 | <0.05 | 6 | <0.5 |
| CAT 51419 | Soil | 19 | 61 | 1.03 | 114 | 0.197 | <1 | 2.24 | 0.014 | 0.58 | <0.1 | <0.01 | 4.2 | 0.5 | <0.05 | 8 | <0.5 |
| CAT 51420 | Soil | 10 | 41 | 0.62 | 177 | 0.090 | <1 | 2.19 | 0.010 | 0.13 | 0.1 | 0.02 | 3.0 | 0.1 | <0.05 | 6 | <0.5 |
| CAT 51421 | Soil | 25 | 47 | 0.62 | 259 | 0.107 | <1 | 1.87 | 0.014 | 0.16 | 0.1 | 0.02 | 5.4 | 0.2 | <0.05 | 6 | <0.5 |
| CAT 51422 | Soil | 16 | 40 | 0.53 | 203 | 0.091 | <1 | 1.91 | 0.013 | 0.10 | 0.1 | 0.02 | 3.4 | 0.1 | <0.05 | 6 | <0.5 |
| CAT 51423 | Soil | 16 | 42 | 0.55 | 198 | 0.106 | <1 | 1.94 | 0.015 | 0.21 | <0.1 | 0.03 | 2.9 | 0.2 | <0.05 | 7 | <0.5 |
| CAT 51424 | Soil | 21 | 51 | 0.77 | 206 | 0.151 | <1 | 2.06 | 0.013 | 0.31 | <0.1 | <0.01 | 3.7 | 0.3 | <0.05 | 7 | <0.5 |
| CAT 51425 | Soil | 24 | 56 | 0.73 | 299 | 0.147 | <1 | 2.08 | 0.011 | 0.34 | <0.1 | 0.02 | 4.8 | 0.3 | <0.05 | 8 | <0.5 |
| CAT 51426 | Soil | 21 | 55 | 0.70 | 301 | 0.136 | <1 | 2.17 | 0.011 | 0.24 | <0.1 | 0.01 | 4.4 | 0.2 | <0.05 | 8 | <0.5 |
| CAT 51427 | Soil | 28 | 56 | 0.81 | 376 | 0.177 | <1 | 2.33 | 0.013 | 0.48 | <0.1 | 0.02 | 5.2 | 0.3 | <0.05 | 8 | <0.5 |
| CAT 51428 | Soil | 25 | 58 | 0.75 | 398 | 0.142 | <1 | 2.01 | 0.012 | 0.30 | <0.1 | 0.02 | 5.5 | 0.3 | <0.05 | 7 | 0.5 |
| CAT 51429 | Soil | 17 | 53 | 0.70 | 347 | 0.102 | <1 | 1.93 | 0.011 | 0.22 | 0.1 | 0.02 | 4.1 | 0.2 | <0.05 | 7 | <0.5 |
| CAT 51430 | Soil | 23 | 60 | 0.78 | 370 | 0.153 | <1 | 2.10 | 0.012 | 0.28 | <0.1 | 0.02 | 4.8 | 0.2 | <0.05 | 7 | 0.7 |
| CAT 51431 | Soil | 13 | 39 | 0.51 | 297 | 0.064 | 1 | 1.61 | 0.010 | 0.11 | 0.1 | 0.02 | 3.7 | 0.1 | <0.05 | 5 | <0.5 |
| CAT 51432 | Soil | 19 | 59 | 0.85 | 187 | 0.133 | <1 | 1.94 | 0.011 | 0.25 | 0.1 | <0.01 | 4.9 | 0.2 | <0.05 | 7 | <0.5 |
| CAT 51433 | Soil | 7 | 82 | 1.08 | 243 | 0.140 | <1 | 1.96 | 0.020 | 0.14 | 0.1 | <0.01 | 3.9 | 0.1 | <0.05 | 6 | <0.5 |
| CAT 51434 | Soil | 25 | 48 | 0.72 | 345 | 0.135 | <1 | 1.91 | 0.013 | 0.26 | 0.2 | 0.02 | 5.3 | 0.3 | <0.05 | 7 | 0.5 |



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Project: CAT
Report Date: September 21, 2009

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CERTIFICATE OF ANALYSIS

VAN09004098.1

| | Method Analyte Unit MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|------------|------------|------------|----------|------------|------------|------------|----------|-----------|------------|------------|------------|------------|----------|------------|------------|------------|----------|-----------|
| | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| | | ppm 0.1 | ppm 0.1 | ppm 0.1 | ppm 1 | ppm 0.1 | ppm 0.1 | ppm 0.1 | ppm 1 | % 0.01 | ppm 0.5 | ppm 0.1 | ppb 0.5 | ppm 0.1 | ppm 1 | ppm 0.1 | ppm 0.1 | ppm 0.1 | ppm 2 | % 0.01 |
| CAT 51436 | Soil | 0.9 | 13.5 | 10.2 | 47 | <0.1 | 15.9 | 7.3 | 181 | 2.34 | 6.7 | 0.6 | 3.0 | 3.2 | 18 | <0.1 | 0.3 | 0.2 | 57 | 0.24 |
| CAT 51437 | Soil | 1.0 | 23.6 | 19.9 | 76 | <0.1 | 34.9 | 12.9 | 420 | 3.55 | 4.4 | 0.7 | 4.4 | 8.4 | 18 | 0.1 | 0.2 | 0.2 | 65 | 0.27 |
| CAT 51438 | Soil | 0.7 | 29.5 | 11.3 | 100 | <0.1 | 12.0 | 10.8 | 506 | 4.33 | 3.1 | 0.6 | 2.2 | 4.3 | 14 | 0.1 | 0.2 | 0.1 | 77 | 0.20 |
| CAT 51439 | Soil | 2.0 | 48.5 | 15.3 | 106 | <0.1 | 36.4 | 14.0 | 565 | 4.08 | 3.5 | 1.5 | 4.2 | 9.9 | 22 | 0.1 | 0.2 | 0.2 | 87 | 0.25 |
| CAT 51440 | Soil | 1.3 | 32.9 | 12.6 | 84 | <0.1 | 28.0 | 11.0 | 398 | 3.58 | 4.6 | 1.1 | 1.7 | 8.9 | 18 | 0.1 | 0.3 | 0.2 | 68 | 0.25 |
| CAT 51441 | Soil | 1.2 | 29.1 | 11.2 | 88 | <0.1 | 21.7 | 12.2 | 482 | 3.56 | 3.4 | 1.0 | 1.2 | 7.0 | 21 | 0.1 | 0.2 | 0.1 | 74 | 0.28 |
| CAT 51442 | Soil | 0.8 | 28.4 | 8.1 | 82 | 0.1 | 21.5 | 12.2 | 411 | 3.52 | 4.4 | 0.8 | 2.7 | 5.3 | 19 | 0.1 | 0.2 | 0.1 | 72 | 0.32 |
| CAT 51443 | Soil | 0.9 | 23.2 | 8.9 | 62 | <0.1 | 19.3 | 10.6 | 351 | 3.20 | 5.6 | 0.7 | 19.8 | 4.2 | 22 | <0.1 | 0.3 | 0.1 | 73 | 0.30 |
| CAT 51444 | Soil | 0.7 | 44.4 | 8.8 | 61 | <0.1 | 29.1 | 12.1 | 451 | 3.08 | 6.0 | 1.6 | 2.8 | 6.9 | 29 | 0.1 | 0.4 | 0.2 | 59 | 0.46 |
| CAT 51446 | Soil | 1.1 | 21.8 | 9.3 | 68 | <0.1 | 23.8 | 10.5 | 325 | 3.56 | 6.8 | 0.6 | 0.7 | 5.8 | 17 | <0.1 | 0.4 | 0.1 | 62 | 0.24 |
| CAT 51447 | Soil | 0.8 | 26.2 | 9.8 | 60 | <0.1 | 46.6 | 16.1 | 423 | 3.76 | 4.9 | 0.7 | 0.7 | 9.0 | 16 | <0.1 | 0.2 | 0.2 | 64 | 0.21 |
| CAT 51448 | Soil | 1.0 | 22.9 | 9.2 | 58 | <0.1 | 41.7 | 14.8 | 496 | 3.59 | 4.3 | 0.6 | 0.8 | 8.7 | 17 | <0.1 | 0.3 | 0.2 | 63 | 0.19 |
| CAT 51449 | Soil | 1.0 | 31.6 | 9.3 | 58 | <0.1 | 41.8 | 13.6 | 306 | 3.56 | 5.7 | 0.7 | 1.4 | 6.9 | 21 | <0.1 | 0.3 | 0.2 | 66 | 0.34 |
| CAT 52455 | Soil | 4.1 | 57.5 | 6.5 | 142 | 0.3 | 49.4 | 10.0 | 290 | 2.92 | 9.2 | 2.1 | 6.7 | 4.8 | 21 | 0.4 | 1.8 | 0.1 | 55 | 0.24 |
| CAT 52457 | Soil | 1.8 | 78.1 | 7.7 | 110 | <0.1 | 50.4 | 13.9 | 535 | 3.70 | 9.1 | 1.7 | 2.0 | 4.7 | 27 | 0.2 | 1.3 | 0.1 | 111 | 0.31 |
| CAT 52458 | Soil | 0.9 | 46.8 | 4.8 | 71 | 0.1 | 57.3 | 10.3 | 222 | 2.46 | 6.4 | 1.2 | 1.3 | 3.6 | 22 | 0.2 | 0.3 | 0.1 | 72 | 0.45 |
| CAT 52464 | Soil | 2.0 | 61.3 | 3.2 | 91 | <0.1 | 50.3 | 11.2 | 310 | 2.81 | 5.9 | 1.3 | 1.9 | 3.5 | 22 | 0.2 | 2.6 | 0.1 | 72 | 0.43 |
| CAT 52466 | Soil | 1.2 | 46.0 | 7.7 | 83 | <0.1 | 34.5 | 9.0 | 313 | 2.60 | 12.2 | 1.4 | 1.5 | 4.3 | 22 | 0.2 | 1.3 | 0.1 | 58 | 0.23 |
| CAT 52471 | Soil | 1.5 | 57.5 | 7.1 | 155 | <0.1 | 94.1 | 18.9 | 658 | 4.83 | 5.2 | 1.7 | 1.2 | 9.1 | 39 | 0.3 | 0.3 | 0.2 | 94 | 0.76 |
| CAT 52502 | Soil | 2.0 | 70.3 | 4.0 | 108 | <0.1 | 57.3 | 11.6 | 363 | 3.13 | 4.3 | 1.9 | 1.7 | 4.0 | 25 | 0.2 | 0.5 | <0.1 | 113 | 0.34 |
| CAT 52504 | Soil | 3.2 | 54.5 | 7.4 | 128 | 0.3 | 49.9 | 11.2 | 495 | 3.19 | 48.0 | 2.2 | 5.0 | 6.0 | 31 | 0.2 | 2.3 | 0.4 | 56 | 0.39 |
| CAT 52507 | Soil | 4.5 | 48.4 | 9.4 | 110 | 0.3 | 45.0 | 13.7 | 450 | 2.74 | 13.5 | 1.8 | 3.8 | 3.5 | 26 | 0.4 | 1.7 | 0.4 | 61 | 0.29 |
| CAT 52508 | Soil | 5.9 | 66.0 | 13.1 | 150 | 0.2 | 55.0 | 14.6 | 672 | 3.59 | 26.3 | 1.3 | 4.9 | 6.3 | 30 | 0.5 | 4.3 | 0.2 | 73 | 0.50 |
| CAT 52511 | Soil | 3.3 | 63.7 | 10.0 | 134 | 0.1 | 61.3 | 19.5 | 376 | 3.99 | 27.3 | 1.4 | 8.1 | 4.7 | 30 | 0.5 | 5.9 | 0.2 | 75 | 0.20 |
| CAT 52513 | Soil | 2.1 | 87.0 | 6.5 | 200 | <0.1 | 74.2 | 21.6 | 745 | 4.92 | 14.6 | 1.7 | 2.3 | 6.0 | 24 | 0.3 | 0.7 | 0.1 | 142 | 0.36 |
| CAT 52515 | Soil | 2.1 | 55.6 | 5.4 | 89 | <0.1 | 30.8 | 8.9 | 162 | 2.75 | 5.7 | 1.7 | 3.9 | 4.4 | 23 | 0.1 | 0.9 | 0.1 | 74 | 0.22 |
| CAT 52517 | Soil | 1.9 | 42.4 | 6.3 | 69 | 0.1 | 18.8 | 7.8 | 313 | 2.68 | 6.1 | 1.4 | 4.8 | 3.5 | 27 | 0.1 | 0.5 | 0.1 | 69 | 0.25 |
| CAT 52521 | Soil | 3.3 | 63.8 | 8.8 | 136 | 0.2 | 39.1 | 13.8 | 450 | 3.11 | 17.6 | 1.9 | 3.4 | 3.9 | 32 | 0.5 | 2.6 | 0.1 | 70 | 0.29 |
| CAT 52522 | Soil | 3.1 | 68.4 | 7.6 | 136 | 0.2 | 53.8 | 19.4 | 750 | 3.72 | 16.9 | 1.3 | 4.0 | 3.0 | 27 | 0.4 | 2.7 | 0.1 | 94 | 0.41 |
| CAT 52523 | Soil | 1.4 | 61.4 | 2.7 | 133 | 0.1 | 63.6 | 21.5 | 460 | 3.53 | 1.8 | 0.8 | 2.0 | 2.4 | 29 | 0.2 | 0.2 | <0.1 | 112 | 0.47 |



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Project: CAT
Report Date: September 21, 2009

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CERTIFICATE OF ANALYSIS

VAN09004098.1

| | Method Analyte Unit MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se |
| | | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm |
| | | 1 | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 |
| CAT 51436 | Soil | 12 | 28 | 0.42 | 354 | 0.049 | <1 | 1.43 | 0.013 | 0.05 | 0.1 | 0.01 | 2.5 | <0.1 | <0.05 | 5 | 0.6 |
| CAT 51437 | Soil | 26 | 53 | 0.83 | 257 | 0.136 | <1 | 2.02 | 0.012 | 0.37 | 0.1 | 0.01 | 3.5 | 0.3 | <0.05 | 8 | 0.5 |
| CAT 51438 | Soil | 14 | 29 | 0.96 | 260 | 0.189 | <1 | 2.00 | 0.010 | 0.64 | 0.1 | 0.02 | 8.4 | 0.3 | <0.05 | 9 | 0.7 |
| CAT 51439 | Soil | 26 | 60 | 1.08 | 254 | 0.196 | <1 | 2.33 | 0.013 | 0.61 | <0.1 | <0.01 | 5.0 | 0.4 | <0.05 | 9 | 0.9 |
| CAT 51440 | Soil | 25 | 49 | 0.93 | 220 | 0.175 | <1 | 2.12 | 0.013 | 0.41 | 0.1 | <0.01 | 4.2 | 0.3 | <0.05 | 8 | 0.9 |
| CAT 51441 | Soil | 22 | 41 | 1.07 | 277 | 0.198 | <1 | 2.13 | 0.013 | 0.61 | 0.1 | 0.01 | 4.5 | 0.3 | <0.05 | 8 | 0.5 |
| CAT 51442 | Soil | 18 | 37 | 1.05 | 310 | 0.186 | <1 | 2.07 | 0.014 | 0.49 | 0.2 | 0.01 | 4.6 | 0.3 | <0.05 | 7 | <0.5 |
| CAT 51443 | Soil | 18 | 37 | 0.83 | 269 | 0.157 | <1 | 1.81 | 0.016 | 0.33 | 0.1 | 0.02 | 3.9 | 0.2 | <0.05 | 7 | 0.6 |
| CAT 51444 | Soil | 36 | 37 | 0.73 | 317 | 0.131 | <1 | 1.68 | 0.023 | 0.26 | 0.3 | 0.04 | 5.3 | 0.2 | <0.05 | 6 | 1.4 |
| CAT 51446 | Soil | 15 | 39 | 0.67 | 200 | 0.124 | 1 | 1.74 | 0.011 | 0.40 | 0.1 | 0.02 | 4.9 | 0.2 | <0.05 | 7 | <0.5 |
| CAT 51447 | Soil | 21 | 63 | 1.18 | 270 | 0.200 | <1 | 2.42 | 0.012 | 0.80 | <0.1 | <0.01 | 3.4 | 0.3 | <0.05 | 9 | 0.6 |
| CAT 51448 | Soil | 22 | 58 | 1.05 | 274 | 0.188 | <1 | 2.20 | 0.013 | 0.61 | <0.1 | <0.01 | 3.3 | 0.3 | <0.05 | 8 | <0.5 |
| CAT 51449 | Soil | 17 | 59 | 0.94 | 195 | 0.170 | 1 | 2.02 | 0.013 | 0.44 | 0.1 | <0.01 | 3.3 | 0.3 | <0.05 | 7 | <0.5 |
| CAT 52455 | Soil | 14 | 30 | 0.39 | 319 | 0.056 | <1 | 0.96 | 0.009 | 0.17 | 0.2 | 0.02 | 3.7 | 0.2 | <0.05 | 3 | 1.3 |
| CAT 52457 | Soil | 19 | 80 | 1.09 | 476 | 0.140 | <1 | 1.88 | 0.012 | 0.75 | <0.1 | 0.01 | 5.8 | 0.3 | <0.05 | 8 | 1.2 |
| CAT 52458 | Soil | 12 | 64 | 0.79 | 361 | 0.104 | <1 | 1.51 | 0.015 | 0.38 | <0.1 | <0.01 | 3.6 | 0.1 | <0.05 | 5 | 0.6 |
| CAT 52464 | Soil | 14 | 47 | 0.62 | 577 | 0.078 | <1 | 1.29 | 0.011 | 0.25 | <0.1 | <0.01 | 4.4 | 0.1 | <0.05 | 5 | 0.8 |
| CAT 52466 | Soil | 17 | 38 | 0.53 | 262 | 0.073 | 1 | 1.22 | 0.011 | 0.19 | 0.1 | 0.02 | 4.9 | 0.1 | <0.05 | 4 | 0.7 |
| CAT 52471 | Soil | 33 | 53 | 1.37 | 414 | 0.156 | <1 | 2.87 | 0.031 | 0.61 | 0.7 | <0.01 | 6.1 | 0.8 | <0.05 | 8 | 0.8 |
| CAT 52502 | Soil | 15 | 87 | 1.04 | 788 | 0.133 | <1 | 1.84 | 0.012 | 0.56 | <0.1 | <0.01 | 4.8 | 0.2 | 0.06 | 7 | 1.2 |
| CAT 52504 | Soil | 27 | 31 | 0.58 | 327 | 0.076 | <1 | 1.44 | 0.013 | 0.45 | 0.2 | 0.02 | 3.0 | 0.4 | <0.05 | 5 | 1.4 |
| CAT 52507 | Soil | 16 | 34 | 0.55 | 312 | 0.051 | <1 | 1.49 | 0.010 | 0.37 | 0.1 | 0.03 | 3.0 | 0.3 | <0.05 | 5 | 1.4 |
| CAT 52508 | Soil | 17 | 46 | 0.58 | 540 | 0.051 | <1 | 1.19 | 0.011 | 0.28 | 0.2 | 0.01 | 4.7 | 0.2 | <0.05 | 4 | 1.8 |
| CAT 52511 | Soil | 16 | 48 | 0.50 | 277 | 0.066 | <1 | 1.30 | 0.008 | 0.24 | <0.1 | 0.01 | 3.8 | 0.2 | 0.06 | 4 | 3.0 |
| CAT 52513 | Soil | 23 | 132 | 2.07 | 690 | 0.304 | <1 | 3.09 | 0.015 | 1.62 | 0.1 | <0.01 | 7.8 | 0.5 | 0.06 | 12 | 1.7 |
| CAT 52515 | Soil | 15 | 37 | 0.48 | 374 | 0.089 | <1 | 1.14 | 0.013 | 0.35 | 0.1 | <0.01 | 4.0 | 0.3 | 0.06 | 4 | 1.6 |
| CAT 52517 | Soil | 13 | 43 | 0.61 | 353 | 0.106 | <1 | 1.30 | 0.016 | 0.27 | 0.1 | 0.02 | 3.1 | 0.2 | 0.09 | 5 | 1.0 |
| CAT 52521 | Soil | 13 | 45 | 0.55 | 398 | 0.076 | <1 | 1.15 | 0.011 | 0.28 | 0.2 | 0.03 | 4.3 | 0.2 | <0.05 | 4 | 1.5 |
| CAT 52522 | Soil | 11 | 75 | 0.62 | 436 | 0.062 | <1 | 1.33 | 0.011 | 0.23 | 0.1 | 0.03 | 6.1 | 0.2 | <0.05 | 4 | 1.1 |
| CAT 52523 | Soil | 7 | 202 | 1.55 | 1039 | 0.186 | <1 | 2.28 | 0.016 | 0.87 | <0.1 | <0.01 | 4.1 | 0.3 | <0.05 | 7 | 0.6 |



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Project: CAT
Report Date: September 21, 2009

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CERTIFICATE OF ANALYSIS

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| | Method Analyte Unit MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|------------|------------|------------|----------|------------|------------|------------|----------|-----------|------------|------------|------------|------------|----------|------------|------------|------------|----------|-----------|------------|
| | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P |
| | | ppm 0.1 | ppm 0.1 | ppm 0.1 | ppm 1 | ppm 0.1 | ppm 0.1 | ppm 0.1 | ppm 1 | % 0.01 | ppm 0.5 | ppm 0.1 | ppb 0.5 | ppm 0.1 | ppm 1 | ppm 0.1 | ppm 0.1 | ppm 0.1 | ppm 2 | % 0.01 | % 0.001 |
| CAT 52526 | Soil | 2.3 | 80.1 | 7.3 | 135 | 0.4 | 55.3 | 21.7 | 748 | 4.31 | 7.3 | 1.8 | 3.0 | 3.8 | 34 | 0.4 | 0.6 | 0.1 | 125 | 0.33 | 0.102 |
| CAT 52528 | Soil | 3.3 | 87.7 | 13.3 | 165 | 0.3 | 82.9 | 21.7 | 1244 | 4.61 | 28.8 | 1.9 | 4.1 | 3.8 | 48 | 1.1 | 2.6 | 0.2 | 71 | 0.53 | 0.145 |
| CAT 52529 | Soil | 1.2 | 41.3 | 7.7 | 75 | 0.2 | 34.6 | 11.4 | 525 | 2.61 | 9.3 | 2.0 | 4.8 | 3.3 | 38 | 0.3 | 0.9 | 0.1 | 60 | 0.62 | 0.081 |
| CAT 52530 | Soil | 1.4 | 38.9 | 6.8 | 79 | 0.1 | 41.9 | 13.1 | 512 | 2.45 | 9.4 | 2.8 | 2.1 | 2.6 | 38 | 0.5 | 0.8 | 0.1 | 58 | 0.69 | 0.074 |
| CAT 52573 | Soil | 1.3 | 53.3 | 12.1 | 78 | 0.3 | 53.9 | 12.1 | 581 | 3.14 | 53.9 | 1.0 | 6.2 | 5.7 | 84 | 0.3 | 1.6 | 0.2 | 59 | 3.61 | 0.059 |
| CAT 52574 | Soil | 0.6 | 105.1 | 3.7 | 45 | 0.1 | 98.7 | 22.4 | 358 | 2.24 | 24.0 | 0.5 | 2.3 | 1.6 | 38 | 0.2 | 0.7 | <0.1 | 43 | 0.97 | 0.072 |
| CAT 52575 | Soil | 0.6 | 104.7 | 6.1 | 58 | 0.2 | 23.2 | 19.5 | 432 | 2.42 | 6.7 | 0.8 | 3.2 | 2.4 | 26 | 0.2 | 0.4 | <0.1 | 58 | 0.61 | 0.072 |
| CAT 52576 | Soil | 0.8 | 59.4 | 7.2 | 61 | <0.1 | 27.9 | 13.2 | 314 | 2.58 | 13.6 | 0.6 | 3.5 | 3.8 | 24 | 0.3 | 0.6 | 0.1 | 56 | 0.52 | 0.082 |
| CAT 52577 | Soil | 0.6 | 138.6 | 6.4 | 58 | 0.2 | 25.1 | 14.6 | 354 | 2.72 | 7.2 | 0.7 | 7.3 | 1.5 | 26 | 0.1 | 0.5 | 0.1 | 78 | 0.59 | 0.054 |
| CAT 52578 | Soil | 0.6 | 68.8 | 5.6 | 48 | <0.1 | 27.6 | 11.8 | 234 | 2.54 | 4.7 | 0.4 | 1.9 | 1.5 | 22 | <0.1 | 0.4 | 0.1 | 74 | 0.47 | 0.034 |
| CAT 52579 | Soil | 0.4 | 86.7 | 4.5 | 61 | <0.1 | 61.5 | 18.5 | 328 | 3.00 | 4.7 | 0.4 | 4.0 | 1.9 | 23 | <0.1 | 0.3 | <0.1 | 77 | 0.62 | 0.058 |
| CAT 52580 | Soil | 0.6 | 70.6 | 4.8 | 30 | <0.1 | 59.0 | 19.5 | 158 | 2.09 | 6.3 | 0.3 | 3.7 | 1.6 | 18 | <0.1 | 0.4 | <0.1 | 40 | 0.26 | 0.019 |
| CAT 52581 | Soil | 0.4 | 82.0 | 5.7 | 56 | <0.1 | 26.8 | 16.2 | 507 | 3.00 | 4.0 | 0.6 | 2.6 | 1.7 | 40 | 0.2 | 0.5 | <0.1 | 69 | 1.19 | 0.069 |
| CAT 52582 | Soil | 0.4 | 135.8 | 8.0 | 40 | <0.1 | 23.4 | 19.3 | 257 | 2.06 | 6.8 | 0.8 | 2.1 | 2.0 | 24 | <0.1 | 0.4 | <0.1 | 49 | 0.39 | 0.069 |
| CAT 52583 | Soil | 0.5 | 43.3 | 7.8 | 56 | <0.1 | 28.0 | 12.0 | 447 | 2.54 | 9.0 | 0.9 | 4.8 | 3.9 | 34 | <0.1 | 0.5 | 0.2 | 56 | 0.55 | 0.066 |
| CAT 52589 | Soil | 0.3 | 36.9 | 4.0 | 63 | <0.1 | 19.1 | 16.3 | 562 | 3.46 | 4.2 | 0.4 | 2.2 | 1.8 | 23 | <0.1 | 0.3 | <0.1 | 85 | 0.56 | 0.073 |
| CAT 52590 | Soil | 0.4 | 44.7 | 6.1 | 55 | <0.1 | 25.3 | 12.6 | 560 | 2.60 | 6.2 | 0.8 | 2.1 | 2.0 | 38 | 0.2 | 0.5 | 0.1 | 60 | 0.98 | 0.071 |
| CAT 52591 | Soil | 0.4 | 56.4 | 4.5 | 57 | <0.1 | 19.3 | 13.1 | 517 | 2.48 | 4.0 | 1.3 | 5.2 | 2.1 | 44 | 0.2 | 0.4 | <0.1 | 65 | 1.14 | 0.072 |
| CAT 52592 | Soil | 0.7 | 36.2 | 5.4 | 53 | <0.1 | 17.5 | 11.3 | 447 | 2.46 | 5.9 | 1.1 | 1.7 | 2.4 | 45 | 0.2 | 0.5 | 0.1 | 53 | 1.13 | 0.070 |
| CAT 52593 | Soil | 0.6 | 61.0 | 7.1 | 58 | <0.1 | 27.6 | 12.3 | 468 | 2.74 | 7.7 | 1.0 | 3.1 | 3.4 | 40 | 0.2 | 0.6 | 0.1 | 58 | 1.00 | 0.064 |
| CAT 52594 | Soil | 0.4 | 82.6 | 7.1 | 71 | <0.1 | 29.1 | 16.4 | 665 | 3.35 | 6.4 | 0.6 | 3.0 | 4.6 | 33 | 0.1 | 0.5 | 0.1 | 78 | 1.22 | 0.060 |
| CAT 52596 | Soil | 0.3 | 79.8 | 2.2 | 71 | <0.1 | 35.4 | 16.7 | 577 | 2.87 | 4.0 | 0.2 | 3.5 | 1.1 | 20 | <0.1 | 0.3 | <0.1 | 80 | 0.54 | 0.070 |
| CAT 52600 | Soil | 0.8 | 62.8 | 12.5 | 121 | 0.1 | 15.9 | 11.7 | 936 | 4.59 | 2.6 | 1.8 | 2.5 | 11.3 | 45 | 0.2 | 0.5 | 0.2 | 47 | 0.49 | 0.128 |
| CAT 52603 | Soil | 0.5 | 93.9 | 3.3 | 35 | <0.1 | 16.0 | 13.0 | 144 | 1.97 | 4.7 | 0.5 | 1.6 | 1.4 | 21 | <0.1 | 0.3 | <0.1 | 52 | 0.36 | 0.066 |
| CAT 52718 | Soil | 1.1 | 22.7 | 11.4 | 60 | <0.1 | 28.2 | 11.5 | 279 | 3.40 | 8.4 | 0.7 | 1.1 | 6.0 | 15 | <0.1 | 0.6 | 0.2 | 72 | 0.16 | 0.021 |
| CAT 52725 | Soil | 2.1 | 49.7 | 10.2 | 94 | <0.1 | 43.2 | 19.0 | 590 | 4.32 | 8.1 | 1.2 | 5.3 | 10.6 | 23 | <0.1 | 0.5 | 0.1 | 80 | 0.33 | 0.038 |
| CAT 52726 | Soil | 1.3 | 32.1 | 10.0 | 63 | <0.1 | 34.9 | 14.4 | 499 | 3.41 | 9.6 | 0.8 | 2.2 | 7.5 | 25 | <0.1 | 0.6 | 0.1 | 64 | 0.38 | 0.021 |
| CAT 52727 | Soil | 0.9 | 42.5 | 9.3 | 75 | <0.1 | 42.8 | 16.3 | 317 | 3.95 | 9.2 | 1.4 | 1.9 | 14.7 | 22 | <0.1 | 0.5 | 0.1 | 60 | 0.29 | 0.031 |
| CAT 52731 | Soil | 0.6 | 41.7 | 23.5 | 107 | <0.1 | 43.7 | 20.4 | 638 | 5.14 | 3.6 | 1.8 | 5.6 | 27.3 | 23 | <0.1 | 0.3 | 0.1 | 58 | 0.37 | 0.044 |
| CAT 52733 | Soil | 0.8 | 30.6 | 10.0 | 63 | <0.1 | 31.9 | 13.2 | 468 | 3.25 | 10.5 | 0.5 | 2.2 | 7.4 | 35 | <0.1 | 0.5 | 0.2 | 60 | 0.53 | 0.026 |



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Project: CAT
Report Date: September 21, 2009

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CERTIFICATE OF ANALYSIS

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| | Method Analyte Unit MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se |
| | | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm |
| | | 1 | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 |
| CAT 52526 | Soil | 16 | 90 | 1.34 | 592 | 0.193 | <1 | 2.51 | 0.012 | 0.89 | 0.1 | 0.02 | 5.9 | 0.3 | <0.05 | 9 | 0.9 |
| CAT 52528 | Soil | 12 | 44 | 0.34 | 503 | 0.016 | 3 | 0.90 | 0.010 | 0.16 | 0.1 | 0.06 | 8.3 | 0.2 | <0.05 | 3 | 1.9 |
| CAT 52529 | Soil | 14 | 36 | 0.51 | 420 | 0.062 | 1 | 1.22 | 0.021 | 0.08 | 0.2 | 0.03 | 3.7 | <0.1 | <0.05 | 4 | 0.8 |
| CAT 52530 | Soil | 12 | 43 | 0.52 | 400 | 0.065 | <1 | 1.25 | 0.021 | 0.07 | 0.2 | 0.03 | 3.2 | <0.1 | <0.05 | 4 | 1.3 |
| CAT 52573 | Soil | 22 | 45 | 0.92 | 608 | 0.064 | 1 | 1.34 | 0.022 | 0.24 | 0.2 | 0.07 | 4.4 | 0.2 | <0.05 | 4 | 0.8 |
| CAT 52574 | Soil | 6 | 78 | 0.95 | 223 | 0.054 | <1 | 1.01 | 0.021 | 0.08 | <0.1 | 0.02 | 3.4 | 0.1 | <0.05 | 3 | <0.5 |
| CAT 52575 | Soil | 11 | 40 | 0.80 | 298 | 0.092 | <1 | 1.37 | 0.019 | 0.11 | 0.2 | 0.03 | 3.6 | <0.1 | <0.05 | 5 | 0.5 |
| CAT 52576 | Soil | 12 | 37 | 0.79 | 311 | 0.090 | <1 | 1.24 | 0.022 | 0.18 | 0.2 | 0.03 | 3.5 | 0.1 | <0.05 | 4 | 0.6 |
| CAT 52577 | Soil | 7 | 41 | 0.94 | 323 | 0.102 | <1 | 1.63 | 0.017 | 0.12 | 0.2 | 0.06 | 3.8 | <0.1 | <0.05 | 6 | <0.5 |
| CAT 52578 | Soil | 6 | 66 | 1.04 | 277 | 0.113 | <1 | 1.58 | 0.014 | 0.07 | 0.1 | 0.01 | 2.9 | <0.1 | <0.05 | 6 | <0.5 |
| CAT 52579 | Soil | 7 | 164 | 1.99 | 401 | 0.130 | <1 | 2.25 | 0.014 | 0.26 | <0.1 | 0.03 | 3.9 | 0.2 | <0.05 | 6 | <0.5 |
| CAT 52580 | Soil | 5 | 61 | 0.69 | 163 | 0.053 | <1 | 1.37 | 0.013 | 0.04 | 0.1 | 0.01 | 1.8 | <0.1 | <0.05 | 3 | <0.5 |
| CAT 52581 | Soil | 8 | 45 | 0.84 | 344 | 0.045 | 1 | 1.35 | 0.017 | 0.15 | <0.1 | 0.03 | 6.9 | <0.1 | <0.05 | 4 | 0.5 |
| CAT 52582 | Soil | 7 | 31 | 0.61 | 522 | 0.075 | <1 | 1.02 | 0.022 | 0.09 | 0.1 | 0.02 | 3.5 | <0.1 | <0.05 | 3 | 0.6 |
| CAT 52583 | Soil | 13 | 33 | 0.68 | 317 | 0.080 | <1 | 1.31 | 0.022 | 0.12 | 0.2 | 0.03 | 3.8 | <0.1 | <0.05 | 4 | 0.8 |
| CAT 52589 | Soil | 8 | 57 | 1.70 | 253 | 0.151 | <1 | 2.05 | 0.018 | 0.54 | 0.1 | 0.02 | 5.7 | 0.2 | <0.05 | 7 | <0.5 |
| CAT 52590 | Soil | 11 | 32 | 0.85 | 291 | 0.070 | 1 | 1.43 | 0.023 | 0.16 | 0.2 | 0.04 | 4.2 | <0.1 | <0.05 | 4 | 0.7 |
| CAT 52591 | Soil | 9 | 31 | 0.88 | 283 | 0.105 | <1 | 1.38 | 0.020 | 0.33 | 0.1 | 0.06 | 3.4 | <0.1 | 0.05 | 4 | <0.5 |
| CAT 52592 | Soil | 11 | 29 | 0.67 | 265 | 0.085 | <1 | 1.25 | 0.020 | 0.16 | 0.2 | 0.06 | 3.2 | <0.1 | <0.05 | 4 | 1.0 |
| CAT 52593 | Soil | 14 | 33 | 0.76 | 373 | 0.091 | 2 | 1.38 | 0.020 | 0.23 | 0.3 | 0.24 | 4.1 | 0.1 | <0.05 | 4 | 0.8 |
| CAT 52594 | Soil | 18 | 43 | 1.10 | 521 | 0.141 | <1 | 1.89 | 0.020 | 0.60 | 0.2 | 0.23 | 5.1 | 0.2 | <0.05 | 5 | 0.8 |
| CAT 52596 | Soil | 4 | 57 | 1.62 | 550 | 0.198 | <1 | 1.92 | 0.021 | 0.81 | 0.2 | 0.17 | 3.8 | 0.2 | <0.05 | 6 | <0.5 |
| CAT 52600 | Soil | 28 | 18 | 1.25 | 1242 | 0.171 | <1 | 2.15 | 0.010 | 0.53 | 0.1 | 0.03 | 4.7 | 0.4 | <0.05 | 11 | <0.5 |
| CAT 52603 | Soil | 5 | 28 | 0.50 | 160 | 0.071 | <1 | 1.03 | 0.025 | 0.04 | <0.1 | <0.01 | 2.6 | <0.1 | <0.05 | 3 | 0.7 |
| CAT 52718 | Soil | 12 | 44 | 0.59 | 204 | 0.101 | <1 | 2.11 | 0.010 | 0.18 | 0.1 | 0.01 | 3.5 | 0.2 | <0.05 | 7 | <0.5 |
| CAT 52725 | Soil | 22 | 41 | 0.79 | 226 | 0.099 | <1 | 1.89 | 0.012 | 0.56 | <0.1 | 0.02 | 6.3 | 0.3 | <0.05 | 6 | <0.5 |
| CAT 52726 | Soil | 19 | 42 | 0.58 | 247 | 0.099 | 2 | 1.80 | 0.014 | 0.28 | 0.1 | 0.02 | 6.2 | 0.2 | <0.05 | 5 | <0.5 |
| CAT 52727 | Soil | 36 | 45 | 0.79 | 214 | 0.125 | <1 | 2.12 | 0.015 | 0.45 | 0.1 | 0.03 | 6.1 | 0.3 | <0.05 | 6 | 0.7 |
| CAT 52731 | Soil | 75 | 47 | 1.02 | 284 | 0.197 | <1 | 2.36 | 0.011 | 0.85 | <0.1 | 0.03 | 6.4 | 0.6 | <0.05 | 8 | <0.5 |
| CAT 52733 | Soil | 22 | 38 | 0.65 | 249 | 0.121 | <1 | 1.69 | 0.022 | 0.28 | 0.1 | 0.01 | 4.7 | 0.2 | <0.05 | 5 | 0.5 |



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CERTIFICATE OF ANALYSIS

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| | Method Analyte Unit MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|------------------|------------------|------------------|----------------|------------------|------------------|------------------|----------------|-----------------|------------------|-----------------|------------------|------------------|----------------|------------------|------------------|------------------|---------------|-----------------|-----------------|
| | | Mo ppm 0.1 | Cu ppm 0.1 | Pb ppm 0.1 | Zn ppm 1 | Ag ppm 0.1 | Ni ppm 0.1 | Co ppm 0.1 | Mn ppm 1 | Fe % 0.01 | As ppm 0.5 | U ppm 0.1 | Au ppb 0.5 | Th ppm 0.1 | Sr ppm 1 | Cd ppm 0.1 | Sb ppm 0.1 | Bi ppm 0.1 | V ppm 2 | Ca % 0.01 | P % 0.001 |
| CAT 52734 | Soil | 0.9 | 28.3 | 12.3 | 62 | <0.1 | 32.8 | 13.5 | 383 | 3.43 | 11.8 | 0.7 | 0.7 | 10.1 | 26 | <0.1 | 0.5 | 0.1 | 58 | 0.36 | 0.013 |
| CAT 52735 | Soil | 0.9 | 38.2 | 11.9 | 87 | <0.1 | 37.7 | 16.2 | 501 | 3.97 | 7.8 | 1.4 | 7.0 | 12.9 | 32 | <0.1 | 0.4 | 0.1 | 47 | 0.58 | 0.055 |
| CAT 52736 | Soil | 0.7 | 45.7 | 12.2 | 79 | <0.1 | 38.5 | 16.9 | 586 | 3.83 | 7.8 | 1.3 | 3.2 | 13.8 | 69 | <0.1 | 0.4 | 0.1 | 52 | 2.36 | 0.054 |
| CAT 52738 | Soil | 0.7 | 35.4 | 16.7 | 89 | <0.1 | 38.6 | 16.2 | 629 | 4.06 | 63.1 | 1.4 | 2.3 | 18.1 | 43 | <0.1 | 1.1 | 0.1 | 51 | 0.81 | 0.055 |
| CAT 52739 | Soil | 0.8 | 36.6 | 10.9 | 69 | <0.1 | 38.2 | 15.0 | 467 | 3.63 | 12.2 | 1.2 | 6.2 | 10.8 | 36 | <0.1 | 0.5 | 0.1 | 64 | 0.60 | 0.032 |
| CAT 52740 | Soil | 2.2 | 66.8 | 11.5 | 98 | 0.1 | 69.5 | 23.3 | 792 | 4.82 | 9.4 | 2.2 | 1.1 | 12.0 | 91 | 0.2 | 0.2 | 0.1 | 92 | 0.99 | 0.068 |
| CAT 52742 | Soil | 1.6 | 56.8 | 15.0 | 77 | 0.1 | 51.5 | 20.2 | 629 | 4.30 | 17.4 | 1.7 | 5.3 | 5.9 | 105 | <0.1 | 0.5 | 0.1 | 64 | 1.50 | 0.097 |
| CAT 52743 | Soil | 1.8 | 67.6 | 13.6 | 93 | 0.1 | 73.6 | 22.7 | 651 | 4.76 | 15.9 | 2.0 | 1.3 | 14.4 | 62 | 0.2 | 0.3 | 0.2 | 103 | 0.75 | 0.111 |
| CAT 52744 | Soil | 2.4 | 57.6 | 17.6 | 80 | 0.1 | 67.2 | 21.4 | 705 | 4.13 | 21.4 | 1.4 | 12.9 | 8.2 | 111 | 0.1 | 0.8 | 0.2 | 70 | 1.45 | 0.069 |
| CAT 52747 | Soil | 1.9 | 49.1 | 14.8 | 66 | 0.2 | 71.7 | 13.2 | 338 | 3.00 | 114.4 | 0.8 | 8.5 | 1.8 | 49 | 0.3 | 3.3 | 0.2 | 72 | 0.45 | 0.043 |
| CAT 52748 | Soil | 0.9 | 91.5 | 9.6 | 84 | <0.1 | 57.2 | 30.5 | 598 | 5.35 | 45.0 | 0.5 | <0.5 | 0.9 | 23 | 0.3 | 1.2 | 0.1 | 142 | 0.49 | 0.034 |
| CAT 52750 | Soil | 1.9 | 54.2 | 12.3 | 119 | 0.4 | 105.1 | 20.2 | 937 | 3.94 | 51.8 | 1.6 | 1.3 | 4.5 | 26 | 0.5 | 1.8 | 0.2 | 98 | 0.34 | 0.085 |
| CAT 52751 | Soil | 2.4 | 29.0 | 10.3 | 102 | <0.1 | 492.9 | 39.5 | 708 | 4.13 | 223.6 | 0.8 | 2.5 | 1.4 | 46 | 0.3 | 8.6 | 0.2 | 78 | 0.32 | 0.049 |
| CAT 52801 | Soil | 1.4 | 42.7 | 10.4 | 82 | 0.1 | 40.7 | 17.6 | 1182 | 3.57 | 6.8 | 1.5 | 25.5 | 6.9 | 115 | 0.2 | 0.4 | 0.2 | 77 | 0.83 | 0.242 |
| CAT 52810 | Soil | 1.0 | 92.7 | 14.6 | 77 | <0.1 | 164.9 | 36.8 | 877 | 4.69 | 9.6 | 0.8 | 1.3 | 8.2 | 100 | <0.1 | 0.3 | 0.1 | 127 | 0.98 | 0.162 |
| CAT 52811 | Soil | 0.9 | 85.8 | 15.3 | 73 | <0.1 | 98.3 | 27.0 | 646 | 4.22 | 8.4 | 0.6 | 1.1 | 6.2 | 59 | <0.1 | 0.4 | 0.2 | 126 | 0.69 | 0.125 |
| CAT 52813 | Soil | 0.9 | 86.2 | 635.7 | 121 | 0.9 | 136.1 | 44.5 | 925 | 6.34 | 0.8 | 0.4 | 1.0 | 1.4 | 77 | 0.3 | <0.1 | 4.6 | 108 | 0.90 | 0.200 |
| CAT 52814 | Soil | 1.6 | 68.1 | 28.3 | 81 | 0.2 | 77.1 | 24.6 | 776 | 4.12 | 22.5 | 1.6 | 2.3 | 5.1 | 59 | 0.2 | 0.7 | 0.3 | 54 | 0.79 | 0.081 |
| CAT 52815 | Soil | 3.3 | 117.7 | 25.3 | 156 | 0.1 | 86.9 | 24.4 | 812 | 4.75 | 10.7 | 1.9 | 0.7 | 16.7 | 100 | 0.4 | 0.5 | 0.2 | 54 | 1.68 | 0.140 |
| CAT 52817 | Soil | 1.8 | 52.1 | 13.5 | 82 | 0.2 | 75.9 | 22.6 | 2176 | 3.54 | 45.9 | 1.6 | 3.5 | 4.1 | 87 | 0.3 | 1.3 | 0.2 | 56 | 0.95 | 0.126 |
| CAT 52818 | Soil | 2.5 | 69.7 | 38.9 | 103 | 0.1 | 84.7 | 29.3 | 958 | 4.96 | 7.9 | 1.7 | 4.5 | 13.0 | 118 | 0.1 | 0.6 | 0.3 | 48 | 1.28 | 0.196 |
| CAT 52819 | Soil | 2.6 | 75.4 | 20.7 | 107 | 0.1 | 78.6 | 27.1 | 971 | 5.03 | 17.9 | 1.4 | 8.1 | 10.6 | 59 | 0.2 | 0.7 | 0.2 | 84 | 0.56 | 0.127 |
| CAT 52820 | Soil | 2.5 | 58.9 | 13.7 | 93 | 0.1 | 61.9 | 22.7 | 819 | 4.86 | 13.2 | 2.4 | 11.8 | 16.9 | 87 | 0.2 | 0.7 | 0.2 | 82 | 0.76 | 0.236 |
| CAT 52824 | Soil | 2.8 | 58.9 | 41.4 | 191 | 0.2 | 41.6 | 18.0 | 580 | 5.25 | 14.8 | 1.3 | 11.8 | 10.1 | 58 | 0.2 | 0.4 | 0.2 | 62 | 0.35 | 0.075 |
| CAT 52825 | Soil | 1.5 | 47.0 | 11.7 | 91 | <0.1 | 116.8 | 22.5 | 662 | 4.47 | 6.2 | 2.4 | 1.5 | 12.2 | 251 | 0.1 | 0.3 | 0.2 | 80 | 1.71 | 0.559 |
| CAT 52827 | Soil | 1.8 | 51.7 | 10.1 | 98 | <0.1 | 97.3 | 22.5 | 824 | 5.09 | 4.7 | 2.7 | 4.8 | 17.7 | 176 | <0.1 | 0.3 | 0.1 | 84 | 1.51 | 0.500 |
| CAT 52829 | Soil | 1.8 | 103.7 | 24.1 | 117 | <0.1 | 62.9 | 22.4 | 800 | 4.69 | 6.3 | 1.4 | 2.1 | 12.1 | 49 | 0.2 | 0.3 | 0.2 | 92 | 0.51 | 0.109 |
| CAT 52831 | Soil | 1.4 | 36.1 | 10.3 | 71 | <0.1 | 47.3 | 16.1 | 402 | 3.82 | 5.6 | 1.1 | 2.9 | 7.7 | 43 | <0.1 | 0.3 | 0.1 | 75 | 0.46 | 0.134 |
| CAT 52834 | Soil | 0.4 | 101.8 | 5.4 | 52 | <0.1 | 38.5 | 14.8 | 467 | 2.59 | 7.4 | 0.3 | 7.2 | 2.3 | 34 | <0.1 | 0.8 | 0.1 | 68 | 0.86 | 0.056 |
| CAT 52835 | Soil | 0.8 | 56.3 | 5.9 | 43 | <0.1 | 24.0 | 13.9 | 233 | 2.43 | 8.2 | 0.6 | 2.2 | 2.3 | 23 | 0.1 | 0.4 | 0.1 | 57 | 0.37 | 0.053 |



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CERTIFICATE OF ANALYSIS

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| | Method Analyte Unit MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se |
| | | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm |
| | | 1 | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 |
| CAT 52734 | Soil | 22 | 43 | 0.58 | 335 | 0.117 | <1 | 1.86 | 0.016 | 0.39 | <0.1 | 0.02 | 5.5 | 0.2 | <0.05 | 5 | <0.5 |
| CAT 52735 | Soil | 30 | 35 | 0.71 | 291 | 0.098 | 1 | 1.62 | 0.017 | 0.49 | 0.1 | 0.05 | 5.3 | 0.3 | <0.05 | 5 | <0.5 |
| CAT 52736 | Soil | 38 | 37 | 0.83 | 349 | 0.133 | 2 | 1.72 | 0.027 | 0.45 | 0.1 | 0.06 | 4.9 | 0.4 | <0.05 | 6 | 0.6 |
| CAT 52738 | Soil | 45 | 40 | 0.85 | 291 | 0.152 | <1 | 1.86 | 0.020 | 0.61 | 0.1 | 0.03 | 5.1 | 0.4 | <0.05 | 6 | 0.9 |
| CAT 52739 | Soil | 36 | 46 | 0.80 | 343 | 0.148 | <1 | 1.93 | 0.021 | 0.43 | 0.2 | 0.03 | 4.9 | 0.3 | <0.05 | 6 | 0.8 |
| CAT 52740 | Soil | 40 | 92 | 1.47 | 1032 | 0.163 | <1 | 2.51 | 0.027 | 0.78 | <0.1 | 0.04 | 6.5 | 0.5 | 0.13 | 9 | 1.8 |
| CAT 52742 | Soil | 29 | 52 | 0.77 | 459 | 0.066 | <1 | 1.39 | 0.018 | 0.30 | 0.1 | 0.08 | 5.6 | 0.2 | 0.08 | 5 | 1.2 |
| CAT 52743 | Soil | 40 | 106 | 1.76 | 664 | 0.182 | <1 | 2.66 | 0.033 | 0.98 | <0.1 | 0.03 | 7.2 | 0.6 | 0.10 | 10 | 1.2 |
| CAT 52744 | Soil | 29 | 74 | 1.02 | 328 | 0.088 | <1 | 1.65 | 0.018 | 0.38 | <0.1 | 0.04 | 6.7 | 0.3 | 0.06 | 6 | 1.0 |
| CAT 52747 | Soil | 9 | 64 | 0.39 | 621 | 0.029 | 5 | 1.12 | 0.013 | 0.17 | 0.1 | 0.13 | 5.1 | 0.5 | 0.13 | 5 | 0.8 |
| CAT 52748 | Soil | 5 | 75 | 1.08 | 344 | 0.043 | <1 | 2.11 | 0.021 | 0.09 | <0.1 | 0.05 | 13.0 | 0.1 | 0.05 | 8 | 0.7 |
| CAT 52750 | Soil | 20 | 107 | 1.20 | 850 | 0.075 | 3 | 1.79 | 0.013 | 0.51 | <0.1 | 0.08 | 10.2 | 0.3 | 0.08 | 6 | 0.7 |
| CAT 52751 | Soil | 4 | 501 | 2.54 | 473 | 0.058 | 7 | 1.99 | 0.010 | 0.11 | <0.1 | 0.36 | 6.7 | 0.6 | 0.11 | 6 | <0.5 |
| CAT 52801 | Soil | 33 | 46 | 0.94 | 551 | 0.144 | 1 | 1.87 | 0.019 | 0.59 | 0.1 | 0.03 | 4.3 | 0.2 | <0.05 | 6 | <0.5 |
| CAT 52810 | Soil | 37 | 185 | 2.43 | 645 | 0.184 | <1 | 2.45 | 0.022 | 0.99 | <0.1 | 0.02 | 8.9 | 0.4 | <0.05 | 9 | <0.5 |
| CAT 52811 | Soil | 27 | 125 | 1.59 | 591 | 0.124 | <1 | 1.94 | 0.020 | 0.65 | <0.1 | 0.02 | 8.7 | 0.3 | <0.05 | 7 | <0.5 |
| CAT 52813 | Soil | 13 | 212 | 2.19 | 1073 | 0.213 | <1 | 2.29 | 0.018 | 0.95 | <0.1 | 0.04 | 7.9 | 0.4 | <0.05 | 12 | <0.5 |
| CAT 52814 | Soil | 27 | 60 | 0.56 | 651 | 0.017 | 2 | 1.18 | 0.013 | 0.12 | <0.1 | 0.07 | 7.6 | 0.1 | <0.05 | 4 | 0.9 |
| CAT 52815 | Soil | 38 | 43 | 0.91 | 492 | 0.017 | 1 | 0.87 | 0.008 | 0.27 | <0.1 | 0.04 | 8.0 | 0.2 | <0.05 | 3 | 1.4 |
| CAT 52817 | Soil | 23 | 52 | 0.73 | 494 | 0.065 | 2 | 1.32 | 0.015 | 0.21 | 0.1 | 0.07 | 5.4 | 0.2 | <0.05 | 4 | 0.9 |
| CAT 52818 | Soil | 43 | 51 | 0.78 | 317 | 0.006 | 1 | 0.81 | 0.004 | 0.20 | <0.1 | 0.06 | 8.9 | 0.1 | <0.05 | 3 | <0.5 |
| CAT 52819 | Soil | 41 | 87 | 1.19 | 509 | 0.111 | 1 | 2.28 | 0.011 | 0.39 | <0.1 | 0.05 | 9.5 | 0.3 | <0.05 | 9 | 0.6 |
| CAT 52820 | Soil | 82 | 64 | 1.11 | 656 | 0.132 | <1 | 2.20 | 0.011 | 0.46 | <0.1 | 0.04 | 6.9 | 0.3 | <0.05 | 8 | <0.5 |
| CAT 52824 | Soil | 29 | 50 | 1.24 | 379 | 0.130 | <1 | 1.98 | 0.009 | 0.71 | <0.1 | 0.05 | 8.1 | 0.7 | 0.10 | 7 | 0.9 |
| CAT 52825 | Soil | 70 | 136 | 2.01 | 622 | 0.098 | <1 | 2.44 | 0.018 | 0.76 | 0.1 | 0.03 | 5.8 | 0.4 | <0.05 | 9 | <0.5 |
| CAT 52827 | Soil | 100 | 125 | 1.81 | 770 | 0.160 | <1 | 2.59 | 0.014 | 1.05 | <0.1 | 0.03 | 6.6 | 0.4 | <0.05 | 10 | 0.6 |
| CAT 52829 | Soil | 37 | 90 | 1.19 | 495 | 0.161 | <1 | 2.33 | 0.014 | 0.63 | <0.1 | 0.02 | 8.3 | 0.5 | <0.05 | 10 | 1.0 |
| CAT 52831 | Soil | 30 | 65 | 1.02 | 293 | 0.193 | 1 | 2.26 | 0.015 | 0.46 | 0.2 | 0.02 | 4.6 | 0.2 | <0.05 | 8 | 0.5 |
| CAT 52834 | Soil | 9 | 77 | 1.18 | 324 | 0.096 | 2 | 1.46 | 0.023 | 0.09 | 0.1 | 0.05 | 5.3 | <0.1 | <0.05 | 4 | <0.5 |
| CAT 52835 | Soil | 7 | 35 | 0.59 | 236 | 0.071 | 1 | 1.33 | 0.019 | 0.07 | 0.2 | 0.01 | 3.1 | <0.1 | <0.05 | 4 | <0.5 |



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CERTIFICATE OF ANALYSIS

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| | | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | |
|-----------|------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P |
| | | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % |
| | | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.1 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 |
| CAT 52837 | Soil | | 0.6 | 87.6 | 4.5 | 35 | <0.1 | 39.3 | 20.4 | 254 | 2.15 | 4.5 | 0.2 | 3.1 | 0.9 | 25 | 0.2 | 0.6 | <0.1 | 55 | 0.32 | 0.026 |
| CAT 52838 | Soil | | 0.4 | 80.8 | 4.9 | 31 | <0.1 | 148.9 | 17.7 | 378 | 2.02 | 5.9 | 0.3 | 1.8 | 1.4 | 23 | 0.1 | 0.5 | <0.1 | 43 | 0.44 | 0.026 |
| CAT 52864 | Soil | | 0.5 | 99.9 | 4.0 | 39 | <0.1 | 16.9 | 9.9 | 153 | 2.15 | 6.4 | 0.3 | 2.1 | 1.2 | 24 | <0.1 | 0.3 | <0.1 | 62 | 0.33 | 0.066 |
| CAT 52865 | Soil | | 0.2 | 113.5 | 2.3 | 42 | <0.1 | 23.3 | 13.4 | 233 | 2.13 | 2.9 | 0.4 | 1.6 | 1.1 | 45 | <0.1 | 0.5 | <0.1 | 63 | 0.45 | 0.060 |
| CAT 52866 | Soil | | 0.2 | 94.9 | 2.9 | 43 | <0.1 | 15.2 | 12.1 | 257 | 2.21 | 3.3 | 0.1 | <0.5 | 0.7 | 21 | <0.1 | 0.4 | <0.1 | 68 | 0.33 | 0.063 |
| CAT 52867 | Soil | | 0.4 | 102.1 | 4.9 | 49 | <0.1 | 24.4 | 13.2 | 312 | 2.72 | 6.2 | 0.7 | 3.1 | 3.3 | 36 | <0.1 | 0.5 | 0.1 | 68 | 0.44 | 0.076 |
| CAT 52868 | Soil | | 0.2 | 140.9 | 3.0 | 30 | <0.1 | 18.1 | 11.6 | 196 | 2.04 | 2.9 | 0.4 | 2.2 | 1.4 | 19 | <0.1 | 0.3 | <0.1 | 63 | 0.30 | 0.042 |
| CAT 52872 | Soil | | 0.4 | 111.7 | 4.7 | 46 | 0.2 | 34.4 | 19.2 | 291 | 2.47 | 18.9 | 0.3 | 10.5 | 1.7 | 39 | <0.1 | 0.7 | <0.1 | 60 | 1.44 | 0.051 |
| CAT 52875 | Soil | | 0.6 | 34.5 | 7.5 | 59 | <0.1 | 20.4 | 12.0 | 412 | 2.62 | 6.8 | 0.6 | 2.4 | 2.8 | 40 | 0.2 | 0.6 | 0.1 | 64 | 0.80 | 0.078 |
| CAT 52876 | Soil | | 0.5 | 88.2 | 4.1 | 43 | <0.1 | 21.4 | 14.1 | 190 | 2.23 | 5.7 | 0.7 | 3.3 | 1.7 | 23 | 0.1 | 0.5 | <0.1 | 61 | 0.38 | 0.065 |
| CAT 52877 | Soil | | 1.0 | 127.4 | 3.7 | 55 | <0.1 | 19.3 | 19.1 | 282 | 2.67 | 4.4 | 0.4 | 0.8 | 0.7 | 24 | <0.1 | 0.4 | <0.1 | 70 | 0.38 | 0.072 |
| CAT 52879 | Soil | | 0.3 | 59.5 | 3.0 | 30 | <0.1 | 48.4 | 10.6 | 286 | 1.79 | 4.3 | 0.4 | 2.4 | 2.0 | 20 | <0.1 | 0.3 | <0.1 | 45 | 0.37 | 0.038 |
| CAT 52880 | Soil | | 0.3 | 73.5 | 2.6 | 38 | <0.1 | 23.2 | 11.4 | 224 | 2.02 | 3.6 | 0.5 | 1.6 | 1.9 | 20 | <0.1 | 0.3 | <0.1 | 55 | 0.42 | 0.072 |
| CAT 52881 | Soil | | 0.3 | 139.9 | 3.2 | 64 | <0.1 | 30.5 | 20.9 | 458 | 3.59 | 2.3 | 0.5 | 2.2 | 2.8 | 17 | 0.1 | 0.2 | <0.1 | 114 | 0.41 | 0.077 |
| CAT 52882 | Soil | | 0.5 | 75.3 | 6.2 | 49 | <0.1 | 25.2 | 12.5 | 552 | 2.46 | 6.8 | 0.6 | 6.9 | 2.9 | 39 | 0.1 | 0.5 | 0.1 | 56 | 0.67 | 0.053 |
| CAT 52883 | Soil | | 0.3 | 40.6 | 3.5 | 60 | <0.1 | 15.9 | 13.7 | 319 | 2.62 | 3.5 | 1.2 | 1.2 | 1.5 | 26 | <0.1 | 0.4 | <0.1 | 67 | 0.59 | 0.079 |
| CAT 52885 | Soil | | 0.4 | 27.3 | 3.2 | 61 | <0.1 | 10.0 | 10.1 | 289 | 2.61 | 3.0 | 0.7 | 1.0 | 1.3 | 22 | 0.1 | 0.5 | <0.1 | 52 | 0.51 | 0.073 |
| CAT 52886 | Soil | | 0.2 | 36.2 | 2.7 | 45 | <0.1 | 12.4 | 11.5 | 273 | 2.18 | 2.7 | 0.4 | 3.3 | 1.2 | 18 | <0.1 | 0.2 | <0.1 | 61 | 0.44 | 0.079 |
| CAT 52887 | Soil | | 0.3 | 19.7 | 3.1 | 43 | <0.1 | 13.0 | 9.9 | 237 | 2.26 | 3.8 | 0.2 | 1.1 | 1.0 | 16 | <0.1 | 0.3 | <0.1 | 64 | 0.30 | 0.048 |
| CAT 52888 | Soil | | 0.3 | 49.4 | 3.1 | 59 | <0.1 | 15.3 | 13.2 | 322 | 2.73 | 2.7 | 0.4 | 1.6 | 2.0 | 18 | <0.1 | 0.3 | <0.1 | 80 | 0.37 | 0.083 |
| CAT 52889 | Soil | | 0.5 | 68.8 | 5.2 | 55 | <0.1 | 23.2 | 16.2 | 311 | 2.72 | 3.3 | 0.2 | 1.2 | 1.0 | 12 | <0.1 | 0.2 | <0.1 | 83 | 0.25 | 0.067 |
| CAT 52891 | Soil | | 0.6 | 72.0 | 7.4 | 59 | <0.1 | 13.5 | 13.5 | 427 | 2.83 | 5.3 | 0.4 | <0.5 | 1.9 | 15 | <0.1 | 0.8 | <0.1 | 72 | 0.33 | 0.077 |
| CAT 52892 | Soil | | 0.3 | 70.0 | 6.0 | 49 | <0.1 | 31.1 | 11.9 | 381 | 2.43 | 7.4 | 0.7 | 3.1 | 2.4 | 33 | 0.1 | 0.6 | 0.1 | 56 | 0.73 | 0.078 |
| CAT 52893 | Soil | | 0.1 | 89.8 | 1.4 | 24 | <0.1 | 16.3 | 7.9 | 169 | 1.11 | 2.0 | 0.2 | 2.0 | 0.8 | 18 | <0.1 | 0.2 | <0.1 | 32 | 0.43 | 0.076 |
| CAT 52894 | Soil | | 0.2 | 137.9 | 2.6 | 42 | <0.1 | 18.5 | 12.6 | 239 | 1.84 | 3.3 | 0.5 | 2.4 | 1.2 | 18 | <0.1 | 0.4 | <0.1 | 61 | 0.43 | 0.081 |
| CAT 52896 | Soil | | 0.4 | 79.5 | 4.8 | 51 | <0.1 | 26.2 | 13.7 | 569 | 2.68 | 5.1 | 0.6 | 2.9 | 1.7 | 32 | <0.1 | 0.5 | <0.1 | 67 | 0.80 | 0.064 |
| CAT 52897 | Soil | | 0.3 | 46.8 | 4.9 | 56 | <0.1 | 22.9 | 14.3 | 525 | 3.04 | 3.9 | 0.3 | 2.0 | 2.0 | 24 | <0.1 | 0.5 | <0.1 | 80 | 0.58 | 0.063 |
| CAT 52898 | Soil | | 0.4 | 48.5 | 5.2 | 56 | <0.1 | 24.8 | 14.4 | 556 | 3.08 | 4.0 | 0.3 | 2.3 | 2.1 | 24 | <0.1 | 0.5 | <0.1 | 84 | 0.60 | 0.065 |
| CAT 52900 | Soil | | 0.4 | 42.0 | 2.2 | 67 | <0.1 | 12.2 | 11.0 | 281 | 2.60 | 2.8 | 0.4 | 0.7 | 1.0 | 25 | <0.1 | 0.2 | <0.1 | 59 | 0.52 | 0.126 |
| CAT 52901 | Soil | | 0.4 | 39.6 | 6.0 | 45 | <0.1 | 22.9 | 10.5 | 381 | 2.28 | 7.4 | 0.5 | 2.8 | 3.0 | 29 | <0.1 | 0.4 | 0.1 | 55 | 0.54 | 0.072 |



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Project: CAT
Report Date: September 21, 2009

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CERTIFICATE OF ANALYSIS

VAN09004098.1

| | Method Analyte Unit MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se |
| | | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm |
| | | 1 | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 |
| CAT 52837 | Soil | 3 | 75 | 1.19 | 119 | 0.058 | 1 | 1.48 | 0.017 | 0.04 | <0.1 | 0.01 | 3.2 | <0.1 | <0.05 | 4 | <0.5 |
| CAT 52838 | Soil | 7 | 173 | 1.47 | 181 | 0.042 | 1 | 1.27 | 0.020 | 0.03 | 0.1 | 0.02 | 3.4 | <0.1 | <0.05 | 3 | <0.5 |
| CAT 52864 | Soil | 5 | 34 | 0.59 | 174 | 0.085 | <1 | 1.23 | 0.018 | 0.07 | <0.1 | 0.01 | 2.9 | <0.1 | <0.05 | 4 | <0.5 |
| CAT 52865 | Soil | 6 | 61 | 0.97 | 228 | 0.122 | <1 | 1.37 | 0.018 | 0.06 | <0.1 | 0.01 | 3.1 | <0.1 | <0.05 | 4 | <0.5 |
| CAT 52866 | Soil | 2 | 22 | 0.82 | 155 | 0.074 | <1 | 1.35 | 0.016 | 0.03 | <0.1 | <0.01 | 2.6 | <0.1 | <0.05 | 4 | <0.5 |
| CAT 52867 | Soil | 13 | 32 | 0.79 | 527 | 0.132 | 1 | 1.49 | 0.024 | 0.15 | 0.1 | 0.02 | 4.0 | <0.1 | <0.05 | 4 | <0.5 |
| CAT 52868 | Soil | 5 | 29 | 0.73 | 276 | 0.117 | <1 | 1.18 | 0.025 | 0.17 | <0.1 | 0.01 | 3.1 | <0.1 | <0.05 | 4 | <0.5 |
| CAT 52872 | Soil | 7 | 71 | 0.91 | 304 | 0.048 | 2 | 1.29 | 0.019 | 0.08 | <0.1 | 0.04 | 6.8 | <0.1 | <0.05 | 4 | <0.5 |
| CAT 52875 | Soil | 12 | 32 | 0.62 | 275 | 0.061 | 2 | 1.30 | 0.020 | 0.09 | 0.2 | 0.03 | 5.7 | <0.1 | <0.05 | 4 | <0.5 |
| CAT 52876 | Soil | 7 | 40 | 0.69 | 180 | 0.099 | 1 | 1.15 | 0.023 | 0.07 | 0.1 | 0.03 | 4.1 | <0.1 | <0.05 | 4 | <0.5 |
| CAT 52877 | Soil | 3 | 39 | 0.76 | 186 | 0.083 | <1 | 1.29 | 0.028 | 0.04 | <0.1 | 0.01 | 3.5 | <0.1 | <0.05 | 4 | <0.5 |
| CAT 52879 | Soil | 7 | 98 | 1.01 | 254 | 0.086 | <1 | 1.26 | 0.024 | 0.08 | <0.1 | 0.02 | 3.9 | <0.1 | <0.05 | 3 | <0.5 |
| CAT 52880 | Soil | 7 | 45 | 1.01 | 232 | 0.113 | 1 | 1.21 | 0.016 | 0.15 | <0.1 | 0.01 | 3.1 | <0.1 | <0.05 | 4 | <0.5 |
| CAT 52881 | Soil | 6 | 64 | 1.67 | 431 | 0.155 | <1 | 2.21 | 0.014 | 0.51 | <0.1 | 0.01 | 8.4 | 0.2 | <0.05 | 7 | <0.5 |
| CAT 52882 | Soil | 13 | 31 | 0.70 | 360 | 0.083 | 1 | 1.38 | 0.023 | 0.09 | 0.2 | 0.04 | 3.9 | <0.1 | <0.05 | 4 | <0.5 |
| CAT 52883 | Soil | 6 | 47 | 1.31 | 314 | 0.127 | <1 | 1.64 | 0.020 | 0.41 | 0.1 | 0.02 | 3.9 | 0.1 | <0.05 | 6 | 0.5 |
| CAT 52885 | Soil | 6 | 31 | 0.76 | 193 | 0.065 | 1 | 1.25 | 0.015 | 0.17 | 0.1 | 0.02 | 4.4 | <0.1 | <0.05 | 5 | <0.5 |
| CAT 52886 | Soil | 4 | 43 | 1.14 | 192 | 0.108 | 1 | 1.53 | 0.017 | 0.28 | <0.1 | 0.02 | 3.6 | 0.1 | <0.05 | 4 | <0.5 |
| CAT 52887 | Soil | 3 | 47 | 1.11 | 180 | 0.140 | 2 | 1.49 | 0.017 | 0.42 | 0.1 | 0.01 | 2.3 | <0.1 | <0.05 | 5 | <0.5 |
| CAT 52888 | Soil | 9 | 36 | 1.18 | 268 | 0.161 | <1 | 1.84 | 0.014 | 0.34 | 0.1 | 0.02 | 3.5 | 0.2 | <0.05 | 5 | <0.5 |
| CAT 52889 | Soil | 3 | 51 | 0.99 | 271 | 0.150 | 1 | 1.73 | 0.015 | 0.32 | 0.1 | <0.01 | 3.0 | <0.1 | <0.05 | 5 | <0.5 |
| CAT 52891 | Soil | 5 | 19 | 0.88 | 244 | 0.068 | 1 | 1.42 | 0.014 | 0.15 | 0.1 | 0.01 | 4.4 | <0.1 | <0.05 | 5 | <0.5 |
| CAT 52892 | Soil | 11 | 46 | 0.77 | 316 | 0.073 | 2 | 1.22 | 0.023 | 0.10 | 0.2 | 0.06 | 4.0 | <0.1 | <0.05 | 4 | <0.5 |
| CAT 52893 | Soil | 3 | 30 | 0.59 | 119 | 0.070 | <1 | 0.79 | 0.016 | 0.06 | <0.1 | 0.02 | 1.7 | <0.1 | <0.05 | 2 | <0.5 |
| CAT 52894 | Soil | 4 | 21 | 0.80 | 180 | 0.116 | <1 | 1.16 | 0.017 | 0.20 | <0.1 | 0.02 | 2.5 | <0.1 | <0.05 | 4 | <0.5 |
| CAT 52896 | Soil | 9 | 43 | 0.88 | 319 | 0.046 | 1 | 1.34 | 0.021 | 0.06 | 0.1 | 0.03 | 6.5 | <0.1 | <0.05 | 4 | <0.5 |
| CAT 52897 | Soil | 8 | 59 | 1.31 | 311 | 0.145 | <1 | 2.03 | 0.019 | 0.40 | 0.1 | 0.03 | 6.4 | 0.2 | <0.05 | 6 | <0.5 |
| CAT 52898 | Soil | 8 | 59 | 1.37 | 313 | 0.152 | <1 | 2.07 | 0.020 | 0.41 | <0.1 | 0.03 | 6.5 | 0.2 | <0.05 | 6 | <0.5 |
| CAT 52900 | Soil | 4 | 19 | 1.12 | 282 | 0.155 | <1 | 1.73 | 0.017 | 0.42 | <0.1 | 0.02 | 2.5 | <0.1 | <0.05 | 5 | <0.5 |
| CAT 52901 | Soil | 11 | 29 | 0.59 | 329 | 0.073 | 1 | 1.22 | 0.022 | 0.05 | 0.2 | 0.03 | 3.9 | <0.1 | <0.05 | 4 | <0.5 |



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Project: CAT
Report Date: September 21, 2009

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CERTIFICATE OF ANALYSIS

VAN09004098.1

| | Method | Analyte | Unit | MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | | | |
|-----------|--------|---------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|------|
| | | | | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P |
| | | | | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % |
| | | | | | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.1 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 |
| CAT 52903 | Soil | | 0.5 | 61.8 | 7.0 | 46 | <0.1 | 21.2 | 11.3 | 216 | 2.47 | 7.4 | 0.8 | 4.1 | 3.3 | 19 | 0.1 | 0.5 | 0.1 | 58 | 0.30 | 0.061 | | |
| CAT 52904 | Soil | | 0.2 | 93.9 | 1.1 | 19 | <0.1 | 133.5 | 17.4 | 107 | 1.32 | 1.7 | <0.1 | <0.5 | 0.3 | 11 | <0.1 | 0.2 | <0.1 | 25 | 0.17 | 0.016 | | |
| CAT 52905 | Soil | | 0.4 | 146.8 | 4.5 | 41 | 0.1 | 98.6 | 16.0 | 268 | 1.82 | 5.8 | 0.5 | 4.0 | 2.5 | 19 | <0.1 | 0.4 | <0.1 | 40 | 0.36 | 0.038 | | |
| CAT 52941 | Soil | | 1.1 | 32.5 | 9.8 | 59 | <0.1 | 32.4 | 13.9 | 451 | 3.22 | 6.4 | 0.7 | 3.3 | 4.9 | 26 | <0.1 | 0.5 | 0.1 | 70 | 0.31 | 0.042 | | |
| CAT 52942 | Soil | | 1.3 | 34.4 | 15.0 | 63 | <0.1 | 37.3 | 14.8 | 487 | 3.11 | 7.8 | 1.0 | 1.4 | 5.5 | 30 | 0.1 | 0.3 | 0.2 | 65 | 0.30 | 0.067 | | |
| CAT 52943 | Soil | | 1.1 | 63.5 | 15.1 | 72 | 0.1 | 81.6 | 19.5 | 694 | 3.86 | 9.7 | 1.6 | 2.5 | 7.1 | 57 | 0.2 | 0.5 | 0.2 | 71 | 0.67 | 0.063 | | |
| CAT 52944 | Soil | | 1.2 | 32.4 | 18.6 | 78 | 0.1 | 48.2 | 17.9 | 698 | 3.27 | 6.6 | 0.5 | <0.5 | 3.0 | 25 | 0.2 | 0.5 | 0.2 | 82 | 0.31 | 0.060 | | |
| CAT 52945 | Soil | | 1.3 | 96.6 | 16.3 | 76 | 0.2 | 100.1 | 20.6 | 636 | 3.98 | 9.6 | 3.9 | 3.5 | 6.3 | 142 | 0.4 | 0.4 | 0.2 | 80 | 1.33 | 0.093 | | |
| CAT 52946 | Soil | | 0.9 | 48.7 | 11.4 | 67 | <0.1 | 55.3 | 18.9 | 631 | 3.87 | 9.4 | 0.8 | 1.6 | 7.9 | 59 | <0.1 | 0.5 | 0.1 | 83 | 0.51 | 0.055 | | |
| CAT 52947 | Soil | | 1.1 | 34.6 | 10.4 | 64 | <0.1 | 71.7 | 18.1 | 551 | 3.65 | 16.0 | 0.9 | 1.0 | 5.8 | 45 | <0.1 | 0.7 | 0.1 | 67 | 0.34 | 0.042 | | |
| CAT 52948 | Soil | | 3.2 | 59.2 | 16.5 | 98 | <0.1 | 104.7 | 31.4 | 957 | 5.65 | 8.8 | 1.1 | 3.6 | 9.2 | 71 | 0.1 | 0.5 | 0.2 | 116 | 0.65 | 0.106 | | |
| CAT 52949 | Soil | | 0.9 | 23.1 | 11.3 | 52 | <0.1 | 25.1 | 11.8 | 474 | 3.08 | 14.0 | 0.6 | 7.6 | 5.2 | 29 | 0.1 | 0.6 | 0.1 | 61 | 0.29 | 0.041 | | |
| CAT 52950 | Soil | | 0.9 | 18.7 | 23.6 | 52 | <0.1 | 23.2 | 10.6 | 290 | 2.96 | 7.2 | 0.5 | 0.8 | 5.5 | 19 | <0.1 | 0.3 | 0.3 | 57 | 0.19 | 0.033 | | |
| CAT 52952 | Soil | | 2.2 | 51.9 | 52.8 | 89 | 0.2 | 49.0 | 16.6 | 834 | 3.72 | 7.3 | 1.1 | 0.9 | 3.4 | 37 | 0.1 | 0.4 | 0.5 | 91 | 0.26 | 0.100 | | |
| CAT 52953 | Soil | | 3.3 | 66.3 | 90.5 | 137 | 0.2 | 85.4 | 18.6 | 768 | 4.88 | 16.1 | 1.0 | <0.5 | 8.3 | 80 | 0.1 | 0.7 | 1.2 | 114 | 0.50 | 0.128 | | |
| CAT 52955 | Soil | | 0.7 | 13.6 | 11.3 | 35 | <0.1 | 15.1 | 4.3 | 134 | 1.44 | 1.8 | 0.6 | 0.9 | 1.8 | 38 | <0.1 | 0.1 | 0.1 | 23 | 0.30 | 0.058 | | |
| CAT 52956 | Soil | | 1.5 | 28.0 | 18.5 | 72 | 0.2 | 32.2 | 15.8 | 600 | 2.89 | 4.6 | 1.2 | 1.3 | 4.1 | 48 | 0.2 | 0.2 | 0.2 | 65 | 0.55 | 0.077 | | |
| CAT 52957 | Soil | | 1.7 | 48.6 | 15.2 | 96 | 0.4 | 57.2 | 18.7 | 773 | 3.71 | 12.0 | 2.0 | 2.1 | 8.5 | 79 | 0.3 | 0.2 | 0.2 | 86 | 0.80 | 0.104 | | |
| CAT 52959 | Soil | | 1.2 | 42.2 | 10.3 | 92 | 0.1 | 52.7 | 15.2 | 583 | 4.00 | 9.3 | 1.0 | 0.8 | 6.4 | 109 | 0.2 | 0.3 | 0.3 | 102 | 0.53 | 0.089 | | |
| CAT 52960 | Soil | | 1.7 | 43.4 | 13.8 | 75 | 0.1 | 40.6 | 15.7 | 605 | 3.47 | 6.1 | 1.2 | 0.9 | 8.2 | 80 | 0.2 | 0.3 | 0.2 | 76 | 0.56 | 0.055 | | |
| CAT 52961 | Soil | | 1.4 | 33.3 | 19.4 | 85 | 0.3 | 43.2 | 14.0 | 373 | 3.46 | 5.2 | 1.4 | 1.6 | 6.4 | 36 | <0.1 | 0.3 | 0.2 | 85 | 0.30 | 0.064 | | |
| CAT 52962 | Soil | | 1.3 | 29.5 | 10.1 | 65 | <0.1 | 41.1 | 15.6 | 660 | 3.01 | 8.7 | 1.8 | 4.4 | 3.4 | 141 | 0.2 | 0.5 | <0.1 | 64 | 2.36 | 0.116 | | |
| CAT 52964 | Soil | | 2.4 | 42.5 | 15.5 | 104 | 0.1 | 53.9 | 18.0 | 700 | 4.23 | 6.4 | 1.5 | 10.8 | 9.7 | 80 | 0.1 | 0.3 | 0.1 | 79 | 0.83 | 0.089 | | |
| CAT 52966 | Soil | | 1.2 | 45.5 | 14.0 | 92 | 0.1 | 64.3 | 22.3 | 728 | 4.26 | 3.7 | 1.3 | 5.7 | 7.8 | 48 | 0.2 | 0.2 | 0.1 | 89 | 0.60 | 0.142 | | |
| CAT 52967 | Soil | | 1.3 | 40.2 | 11.9 | 74 | 0.1 | 45.8 | 16.5 | 549 | 3.82 | 5.2 | 1.3 | 1.8 | 8.1 | 52 | 0.2 | 0.3 | 0.1 | 72 | 0.49 | 0.113 | | |
| CAT 52968 | Soil | | 1.4 | 36.2 | 16.8 | 72 | <0.1 | 34.8 | 13.1 | 672 | 3.66 | 4.0 | 1.0 | 4.2 | 7.0 | 39 | 0.1 | 0.2 | 0.2 | 70 | 0.44 | 0.066 | | |
| CAT 52971 | Soil | | 1.1 | 29.6 | 9.8 | 68 | <0.1 | 35.9 | 10.8 | 381 | 3.29 | 5.4 | 0.8 | 2.4 | 6.2 | 30 | <0.1 | 0.3 | 0.1 | 76 | 0.29 | 0.079 | | |
| CAT 52974 | Soil | | 1.1 | 31.1 | 11.2 | 65 | <0.1 | 28.9 | 11.6 | 323 | 3.36 | 6.1 | 1.0 | 6.5 | 7.0 | 32 | 0.1 | 0.3 | 0.2 | 66 | 0.33 | 0.064 | | |
| CAT 59001 | Soil | | 2.3 | 47.4 | 12.7 | 100 | <0.1 | 46.2 | 20.3 | 733 | 4.39 | 9.7 | 1.7 | 1.0 | 13.0 | 19 | 0.1 | 0.5 | 0.1 | 63 | 0.19 | 0.069 | | |
| CAT 59004 | Soil | | 1.1 | 30.1 | 16.9 | 80 | 0.1 | 47.3 | 14.6 | 423 | 3.71 | 15.0 | 1.0 | 19.2 | 9.3 | 18 | <0.1 | 0.6 | 0.2 | 59 | 0.20 | 0.047 | | |



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Project: CAT
Report Date: September 21, 2009

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CERTIFICATE OF ANALYSIS

VAN09004098.1

| | Method Analyte Unit MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se |
| | | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm |
| | | 1 | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 |
| CAT 52903 | Soil | 14 | 33 | 0.56 | 310 | 0.083 | 1 | 1.44 | 0.014 | 0.06 | 0.2 | 0.02 | 2.9 | <0.1 | <0.05 | 4 | <0.5 |
| CAT 52904 | Soil | 1 | 126 | 1.28 | 74 | 0.062 | <1 | 1.24 | 0.012 | 0.02 | <0.1 | <0.01 | 1.2 | <0.1 | <0.05 | 2 | <0.5 |
| CAT 52905 | Soil | 9 | 104 | 0.86 | 169 | 0.049 | <1 | 1.16 | 0.016 | 0.03 | 0.2 | 0.05 | 4.1 | <0.1 | <0.05 | 3 | <0.5 |
| CAT 52941 | Soil | 16 | 46 | 0.78 | 240 | 0.146 | <1 | 1.77 | 0.014 | 0.22 | 0.1 | 0.02 | 4.0 | 0.2 | <0.05 | 6 | <0.5 |
| CAT 52942 | Soil | 21 | 56 | 0.83 | 450 | 0.141 | <1 | 1.66 | 0.014 | 0.29 | 0.2 | 0.02 | 4.2 | 0.2 | <0.05 | 6 | <0.5 |
| CAT 52943 | Soil | 32 | 98 | 1.15 | 506 | 0.145 | 1 | 2.03 | 0.017 | 0.52 | 0.1 | 0.03 | 6.0 | 0.3 | <0.05 | 7 | 0.6 |
| CAT 52944 | Soil | 9 | 67 | 0.88 | 352 | 0.119 | <1 | 1.85 | 0.014 | 0.29 | 0.1 | 0.01 | 3.4 | 0.1 | <0.05 | 6 | <0.5 |
| CAT 52945 | Soil | 46 | 108 | 1.28 | 781 | 0.139 | 1 | 2.08 | 0.020 | 0.48 | <0.1 | 0.04 | 7.9 | 0.3 | 0.05 | 7 | 1.0 |
| CAT 52946 | Soil | 30 | 74 | 1.07 | 413 | 0.154 | 2 | 2.02 | 0.021 | 0.46 | 0.1 | 0.03 | 6.7 | 0.2 | <0.05 | 7 | <0.5 |
| CAT 52947 | Soil | 17 | 80 | 0.95 | 379 | 0.136 | 1 | 1.81 | 0.014 | 0.34 | 0.1 | 0.02 | 4.5 | 0.2 | <0.05 | 6 | <0.5 |
| CAT 52948 | Soil | 33 | 151 | 1.58 | 445 | 0.147 | <1 | 2.59 | 0.014 | 0.68 | <0.1 | 0.01 | 7.2 | 0.4 | <0.05 | 10 | <0.5 |
| CAT 52949 | Soil | 15 | 34 | 0.61 | 431 | 0.098 | <1 | 1.56 | 0.011 | 0.19 | 0.1 | 0.01 | 3.1 | 0.1 | <0.05 | 5 | <0.5 |
| CAT 52950 | Soil | 17 | 34 | 0.65 | 318 | 0.118 | <1 | 1.73 | 0.013 | 0.28 | 0.1 | 0.02 | 2.8 | 0.2 | <0.05 | 6 | <0.5 |
| CAT 52952 | Soil | 16 | 56 | 0.78 | 301 | 0.100 | <1 | 1.64 | 0.013 | 0.29 | 0.1 | 0.02 | 4.4 | 0.2 | <0.05 | 7 | 0.8 |
| CAT 52953 | Soil | 27 | 111 | 1.64 | 621 | 0.159 | 1 | 2.29 | 0.022 | 0.67 | 0.1 | 0.02 | 6.5 | 0.5 | 0.15 | 10 | 1.1 |
| CAT 52955 | Soil | 19 | 35 | 0.35 | 298 | 0.072 | <1 | 0.96 | 0.014 | 0.13 | 0.1 | 0.04 | 2.5 | 0.2 | 0.06 | 6 | <0.5 |
| CAT 52956 | Soil | 24 | 54 | 0.78 | 371 | 0.104 | 1 | 1.70 | 0.016 | 0.13 | 0.2 | 0.05 | 4.1 | 0.2 | <0.05 | 6 | <0.5 |
| CAT 52957 | Soil | 44 | 89 | 1.14 | 689 | 0.128 | 1 | 2.04 | 0.017 | 0.46 | 0.1 | 0.05 | 6.6 | 0.3 | <0.05 | 8 | 0.6 |
| CAT 52959 | Soil | 23 | 90 | 1.16 | 423 | 0.180 | 1 | 2.06 | 0.015 | 0.48 | 0.1 | 0.02 | 5.7 | 0.3 | <0.05 | 9 | <0.5 |
| CAT 52960 | Soil | 34 | 63 | 0.89 | 588 | 0.163 | <1 | 1.76 | 0.018 | 0.48 | 0.1 | 0.03 | 4.8 | 0.3 | 0.06 | 8 | <0.5 |
| CAT 52961 | Soil | 28 | 78 | 1.03 | 254 | 0.189 | 1 | 2.41 | 0.017 | 0.43 | 0.2 | 0.04 | 4.8 | 0.3 | <0.05 | 9 | 0.5 |
| CAT 52962 | Soil | 24 | 66 | 0.95 | 431 | 0.067 | 3 | 1.33 | 0.015 | 0.22 | <0.1 | 0.05 | 4.3 | 0.2 | 0.08 | 5 | 1.0 |
| CAT 52964 | Soil | 28 | 109 | 1.17 | 415 | 0.159 | 1 | 1.95 | 0.018 | 0.54 | 0.2 | 0.03 | 6.1 | 0.4 | 0.05 | 8 | 0.7 |
| CAT 52966 | Soil | 29 | 107 | 1.36 | 459 | 0.177 | <1 | 2.21 | 0.016 | 0.64 | 0.1 | 0.02 | 6.0 | 0.4 | 0.05 | 9 | 0.6 |
| CAT 52967 | Soil | 31 | 74 | 1.03 | 453 | 0.162 | <1 | 2.06 | 0.017 | 0.48 | 0.1 | 0.02 | 5.0 | 0.3 | <0.05 | 8 | 0.5 |
| CAT 52968 | Soil | 20 | 62 | 0.92 | 372 | 0.185 | <1 | 1.91 | 0.014 | 0.58 | 0.1 | 0.02 | 5.5 | 0.4 | <0.05 | 8 | <0.5 |
| CAT 52971 | Soil | 22 | 61 | 0.88 | 356 | 0.143 | <1 | 2.02 | 0.010 | 0.32 | 0.1 | 0.02 | 4.2 | 0.3 | <0.05 | 8 | <0.5 |
| CAT 52974 | Soil | 20 | 48 | 0.81 | 395 | 0.123 | <1 | 1.87 | 0.011 | 0.32 | 0.1 | 0.02 | 4.0 | 0.2 | <0.05 | 7 | <0.5 |
| CAT 59001 | Soil | 32 | 56 | 0.83 | 249 | 0.124 | <1 | 2.04 | 0.009 | 0.66 | <0.1 | 0.03 | 5.5 | 0.4 | <0.05 | 6 | <0.5 |
| CAT 59004 | Soil | 21 | 65 | 0.65 | 219 | 0.081 | <1 | 1.91 | 0.014 | 0.28 | 0.1 | 0.04 | 4.5 | 0.3 | <0.05 | 6 | <0.5 |



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CERTIFICATE OF ANALYSIS

VAN09004098.1

| | Method Analyte Unit MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P |
| | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % |
| | | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.1 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 |
| CAT 59007 | Soil | 1.1 | 48.8 | 18.0 | 98 | <0.1 | 57.2 | 24.2 | 549 | 4.23 | 5.0 | 1.2 | 1.4 | 12.5 | 18 | <0.1 | 0.3 | 0.2 | 64 | 0.19 | 0.024 |
| CAT 59012 | Soil | 0.9 | 45.0 | 12.1 | 96 | <0.1 | 44.5 | 18.8 | 467 | 5.06 | 7.9 | 1.7 | 2.1 | 19.7 | 21 | <0.1 | 0.3 | <0.1 | 58 | 0.28 | 0.053 |
| CAT 59014 | Soil | 0.9 | 37.5 | 11.1 | 92 | <0.1 | 37.0 | 16.4 | 451 | 4.39 | 5.3 | 1.5 | 2.7 | 19.8 | 20 | <0.1 | 0.3 | <0.1 | 53 | 0.27 | 0.041 |
| CAT 59017 | Soil | 1.0 | 42.8 | 9.2 | 90 | <0.1 | 43.1 | 18.0 | 769 | 4.41 | 12.6 | 1.3 | 3.4 | 13.9 | 23 | <0.1 | 0.5 | <0.1 | 54 | 0.28 | 0.034 |
| CAT 59021 | Soil | 0.8 | 41.9 | 11.1 | 101 | <0.1 | 38.8 | 17.7 | 457 | 4.71 | 4.8 | 1.8 | 1.3 | 25.7 | 21 | <0.1 | 0.2 | <0.1 | 41 | 0.31 | 0.059 |
| CAT 59022 | Soil | 0.7 | 41.9 | 11.0 | 70 | <0.1 | 32.2 | 13.6 | 538 | 3.28 | 12.0 | 0.8 | 3.5 | 9.4 | 41 | <0.1 | 0.5 | 0.1 | 57 | 0.66 | 0.046 |
| CAT 59025 | Soil | 0.9 | 37.7 | 10.0 | 63 | <0.1 | 31.7 | 12.3 | 428 | 3.15 | 9.5 | 0.7 | 3.3 | 7.5 | 42 | <0.1 | 0.5 | 0.1 | 57 | 0.60 | 0.040 |
| CAT 59026 | Soil | 2.3 | 103.6 | 11.7 | 102 | 0.2 | 107.3 | 40.8 | 731 | 5.03 | 21.5 | 1.7 | 2.6 | 15.2 | 71 | 0.2 | 0.3 | 0.1 | 111 | 0.73 | 0.128 |
| CAT 59027 | Soil | 1.7 | 55.4 | 16.0 | 96 | <0.1 | 55.9 | 25.8 | 634 | 4.84 | 19.0 | 1.4 | 2.7 | 13.0 | 81 | <0.1 | 0.9 | 0.2 | 70 | 0.76 | 0.033 |
| CAT 59028 | Soil | 2.3 | 65.0 | 17.1 | 85 | <0.1 | 72.8 | 24.0 | 1089 | 4.40 | 25.9 | 2.3 | 2.0 | 4.9 | 183 | 0.3 | 1.8 | 0.2 | 72 | 1.49 | 0.104 |
| CAT 59033 | Soil | 1.5 | 53.3 | 33.1 | 67 | 0.1 | 44.2 | 15.7 | 352 | 2.79 | 20.4 | 0.7 | 0.6 | 1.2 | 20 | 0.2 | 1.1 | 0.3 | 95 | 0.33 | 0.042 |
| CAT 59050 | Soil | 1.9 | 36.3 | 29.7 | 62 | 0.5 | 28.8 | 18.0 | 1540 | 2.96 | 5.1 | 2.1 | 2.7 | 4.2 | 63 | 0.2 | 0.2 | 0.3 | 63 | 0.80 | 0.088 |
| CAT 59052 | Soil | 1.2 | 21.3 | 24.2 | 65 | 0.1 | 23.8 | 8.1 | 270 | 2.63 | 5.4 | 0.8 | 7.4 | 4.3 | 23 | <0.1 | 0.2 | 0.2 | 72 | 0.26 | 0.079 |
| CAT 59056 | Soil | 1.3 | 21.1 | 10.4 | 58 | 0.2 | 29.6 | 8.7 | 261 | 2.80 | 6.0 | 0.7 | 1.6 | 4.3 | 22 | 0.1 | 0.3 | 0.2 | 74 | 0.23 | 0.041 |
| CAT 59059 | Soil | 2.0 | 42.6 | 15.0 | 59 | 0.1 | 26.1 | 9.2 | 361 | 2.80 | 3.4 | 1.1 | 1.1 | 5.5 | 38 | <0.1 | 0.2 | 0.2 | 76 | 0.20 | 0.052 |
| CAT 59069 | Soil | 1.4 | 33.0 | 8.3 | 66 | 0.2 | 30.8 | 12.3 | 528 | 2.87 | 4.1 | 1.2 | 5.4 | 5.5 | 71 | 0.1 | 0.3 | 0.1 | 61 | 0.74 | 0.061 |
| CAT 59070 | Soil | 1.0 | 32.4 | 9.2 | 56 | <0.1 | 30.3 | 10.9 | 363 | 2.81 | 4.9 | 1.2 | 7.4 | 6.9 | 44 | 0.1 | 0.2 | 0.1 | 59 | 0.40 | 0.062 |
| CAT 59071 | Soil | 1.2 | 39.1 | 11.2 | 70 | 0.1 | 35.8 | 13.6 | 428 | 3.39 | 6.1 | 1.4 | 9.1 | 8.5 | 54 | <0.1 | 0.3 | 0.1 | 73 | 0.49 | 0.073 |
| CAT 59072 | Soil | 1.0 | 28.4 | 10.3 | 65 | 0.1 | 25.8 | 10.0 | 320 | 2.86 | 5.3 | 0.9 | 21.1 | 7.5 | 28 | <0.1 | 0.3 | 0.1 | 62 | 0.25 | 0.043 |
| CAT 59073 | Soil | 0.9 | 31.3 | 10.0 | 59 | <0.1 | 28.8 | 10.7 | 305 | 2.81 | 5.4 | 1.1 | 3.9 | 8.4 | 36 | <0.1 | 0.3 | 0.1 | 61 | 0.35 | 0.045 |
| CAT 59143 | Soil | 1.6 | 59.3 | 16.5 | 87 | 0.1 | 43.8 | 16.4 | 637 | 3.76 | 10.2 | 1.3 | 22.5 | 7.3 | 36 | 0.1 | 0.4 | 0.2 | 81 | 0.31 | 0.106 |
| CAT 59146 | Soil | 1.2 | 40.9 | 9.6 | 57 | <0.1 | 27.1 | 12.1 | 361 | 2.78 | 8.0 | 1.0 | 3.2 | 5.9 | 24 | <0.1 | 0.5 | 0.1 | 62 | 0.22 | 0.044 |
| CAT 59147 | Soil | 1.4 | 34.9 | 23.4 | 67 | 0.1 | 29.1 | 11.3 | 288 | 3.19 | 8.7 | 0.8 | <0.5 | 6.7 | 24 | 0.1 | 0.4 | 0.3 | 76 | 0.23 | 0.033 |
| CAT 59152 | Soil | 0.8 | 78.1 | 9.6 | 80 | <0.1 | 51.4 | 20.6 | 562 | 4.46 | 21.0 | 1.4 | 3.2 | 10.1 | 24 | <0.1 | 0.4 | <0.1 | 88 | 0.34 | 0.059 |
| CAT 59153 | Soil | 0.7 | 38.6 | 8.2 | 63 | <0.1 | 35.8 | 15.8 | 266 | 3.36 | 6.9 | 0.9 | 2.2 | 9.3 | 16 | <0.1 | 0.4 | 0.1 | 66 | 0.18 | 0.022 |
| CAT 59154 | Soil | 1.3 | 88.3 | 4.1 | 89 | <0.1 | 79.4 | 29.0 | 841 | 4.90 | 1.0 | 0.7 | 2.4 | 4.1 | 30 | <0.1 | 0.1 | <0.1 | 162 | 0.86 | 0.173 |
| CAT 59156 | Soil | 1.3 | 35.0 | 8.5 | 75 | <0.1 | 38.9 | 16.5 | 439 | 3.71 | 8.3 | 0.6 | 1.0 | 4.5 | 23 | 0.1 | 0.4 | 0.1 | 91 | 0.35 | 0.043 |
| CAT 59179 | Soil | 0.7 | 46.4 | 7.1 | 49 | <0.1 | 25.2 | 11.2 | 476 | 2.38 | 7.5 | 0.3 | 4.9 | 3.4 | 24 | <0.1 | 0.5 | 0.1 | 59 | 0.39 | 0.040 |
| CAT 59180 | Soil | 0.7 | 35.0 | 7.8 | 52 | <0.1 | 24.3 | 11.3 | 394 | 2.49 | 8.8 | 0.5 | 0.9 | 4.1 | 24 | <0.1 | 0.4 | 0.1 | 58 | 0.37 | 0.055 |
| CAT 59181 | Soil | 0.6 | 105.1 | 5.5 | 51 | <0.1 | 21.6 | 12.0 | 457 | 2.31 | 5.0 | 0.4 | 3.9 | 2.2 | 24 | 0.1 | 0.4 | 0.1 | 58 | 0.40 | 0.058 |



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CERTIFICATE OF ANALYSIS

VAN09004098.1

| | Method Analyte Unit MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se |
| | | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm |
| | | 1 | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 |
| CAT 59007 | Soil | 29 | 46 | 1.10 | 219 | 0.137 | <1 | 2.39 | 0.015 | 0.58 | <0.1 | <0.01 | 5.0 | 0.4 | <0.05 | 7 | 0.5 |
| CAT 59012 | Soil | 45 | 47 | 1.09 | 261 | 0.192 | <1 | 2.36 | 0.009 | 0.99 | <0.1 | 0.01 | 7.2 | 0.6 | <0.05 | 8 | <0.5 |
| CAT 59014 | Soil | 49 | 44 | 0.90 | 222 | 0.102 | <1 | 2.16 | 0.010 | 0.56 | <0.1 | 0.03 | 7.0 | 0.4 | <0.05 | 6 | <0.5 |
| CAT 59017 | Soil | 31 | 43 | 0.77 | 302 | 0.096 | <1 | 1.76 | 0.013 | 0.46 | <0.1 | 0.04 | 7.0 | 0.3 | <0.05 | 6 | <0.5 |
| CAT 59021 | Soil | 77 | 36 | 0.78 | 208 | 0.139 | <1 | 1.85 | 0.008 | 0.70 | <0.1 | <0.01 | 4.8 | 0.5 | <0.05 | 6 | <0.5 |
| CAT 59022 | Soil | 26 | 35 | 0.66 | 325 | 0.114 | <1 | 1.57 | 0.026 | 0.31 | 0.1 | 0.04 | 5.1 | 0.2 | <0.05 | 5 | <0.5 |
| CAT 59025 | Soil | 28 | 36 | 0.65 | 408 | 0.106 | 1 | 1.65 | 0.027 | 0.34 | 0.2 | 0.02 | 4.4 | 0.2 | <0.05 | 5 | <0.5 |
| CAT 59026 | Soil | 47 | 113 | 1.88 | 629 | 0.172 | 1 | 2.59 | 0.030 | 0.98 | <0.1 | 0.04 | 7.5 | 0.5 | 0.07 | 9 | 1.2 |
| CAT 59027 | Soil | 37 | 56 | 1.17 | 326 | 0.127 | <1 | 2.44 | 0.012 | 0.61 | <0.1 | 0.02 | 5.7 | 0.4 | <0.05 | 9 | 0.6 |
| CAT 59028 | Soil | 29 | 59 | 0.68 | 414 | 0.044 | 3 | 1.26 | 0.015 | 0.26 | <0.1 | 0.05 | 8.1 | 0.2 | <0.05 | 5 | 1.0 |
| CAT 59033 | Soil | 8 | 62 | 0.73 | 339 | 0.099 | 1 | 1.38 | 0.020 | 0.12 | 0.2 | 0.03 | 4.3 | 0.2 | <0.05 | 7 | <0.5 |
| CAT 59050 | Soil | 39 | 44 | 0.50 | 646 | 0.068 | <1 | 1.69 | 0.015 | 0.18 | <0.1 | 0.09 | 5.1 | 0.2 | 0.06 | 7 | 0.7 |
| CAT 59052 | Soil | 17 | 50 | 0.73 | 220 | 0.113 | <1 | 1.66 | 0.014 | 0.18 | 0.2 | 0.03 | 3.7 | 0.2 | <0.05 | 6 | 0.5 |
| CAT 59056 | Soil | 16 | 70 | 0.73 | 183 | 0.134 | <1 | 1.75 | 0.013 | 0.19 | 0.1 | 0.02 | 3.6 | 0.2 | <0.05 | 7 | <0.5 |
| CAT 59059 | Soil | 25 | 47 | 0.75 | 238 | 0.155 | <1 | 1.71 | 0.014 | 0.45 | <0.1 | 0.03 | 3.7 | 0.3 | 0.08 | 7 | 0.7 |
| CAT 59069 | Soil | 27 | 44 | 0.73 | 458 | 0.120 | <1 | 1.58 | 0.017 | 0.33 | 0.1 | 0.04 | 4.4 | 0.2 | <0.05 | 6 | 0.5 |
| CAT 59070 | Soil | 30 | 42 | 0.66 | 429 | 0.122 | <1 | 1.59 | 0.013 | 0.27 | 0.1 | 0.02 | 4.2 | 0.2 | <0.05 | 5 | <0.5 |
| CAT 59071 | Soil | 35 | 51 | 0.81 | 534 | 0.147 | <1 | 1.90 | 0.015 | 0.34 | 0.2 | 0.03 | 5.1 | 0.2 | <0.05 | 7 | <0.5 |
| CAT 59072 | Soil | 28 | 42 | 0.62 | 411 | 0.127 | <1 | 1.68 | 0.012 | 0.29 | 0.1 | 0.03 | 3.7 | 0.2 | <0.05 | 6 | <0.5 |
| CAT 59073 | Soil | 39 | 45 | 0.67 | 466 | 0.124 | <1 | 1.71 | 0.014 | 0.23 | 0.1 | 0.03 | 3.8 | 0.2 | <0.05 | 6 | <0.5 |
| CAT 59143 | Soil | 22 | 57 | 0.80 | 430 | 0.117 | 1 | 1.89 | 0.011 | 0.36 | 0.1 | 0.05 | 6.2 | 0.2 | <0.05 | 7 | <0.5 |
| CAT 59146 | Soil | 21 | 37 | 0.56 | 229 | 0.095 | <1 | 1.63 | 0.013 | 0.17 | 0.1 | 0.02 | 3.2 | 0.1 | <0.05 | 5 | <0.5 |
| CAT 59147 | Soil | 17 | 41 | 0.61 | 237 | 0.109 | <1 | 1.76 | 0.011 | 0.26 | 0.1 | 0.01 | 3.6 | 0.2 | <0.05 | 6 | <0.5 |
| CAT 59152 | Soil | 27 | 70 | 1.08 | 344 | 0.145 | <1 | 2.10 | 0.011 | 0.54 | <0.1 | 0.02 | 8.0 | 0.3 | <0.05 | 7 | 0.5 |
| CAT 59153 | Soil | 22 | 48 | 0.81 | 284 | 0.132 | <1 | 2.30 | 0.010 | 0.36 | 0.1 | <0.01 | 4.0 | 0.3 | <0.05 | 6 | 0.5 |
| CAT 59154 | Soil | 21 | 143 | 2.53 | 1147 | 0.209 | <1 | 2.53 | 0.031 | 0.68 | <0.1 | 0.01 | 12.0 | 0.4 | <0.05 | 10 | <0.5 |
| CAT 59156 | Soil | 15 | 56 | 1.01 | 287 | 0.132 | 1 | 2.08 | 0.010 | 0.39 | <0.1 | 0.02 | 4.6 | 0.2 | <0.05 | 7 | <0.5 |
| CAT 59179 | Soil | 10 | 33 | 0.52 | 302 | 0.085 | 1 | 1.29 | 0.017 | 0.14 | 0.2 | 0.02 | 4.4 | <0.1 | <0.05 | 4 | <0.5 |
| CAT 59180 | Soil | 12 | 32 | 0.51 | 329 | 0.082 | 2 | 1.33 | 0.016 | 0.17 | 0.1 | 0.01 | 4.4 | <0.1 | <0.05 | 4 | <0.5 |
| CAT 59181 | Soil | 7 | 29 | 0.76 | 362 | 0.106 | 2 | 1.49 | 0.015 | 0.31 | 0.1 | <0.01 | 3.8 | <0.1 | <0.05 | 5 | <0.5 |



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CERTIFICATE OF ANALYSIS

VAN09004098.1

| | Method Analyte Unit MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|------------|------------|------------|----------|------------|------------|------------|----------|-----------|------------|------------|------------|------------|----------|------------|------------|------------|----------|-----------|------------|
| | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P |
| | | ppm 0.1 | ppm 0.1 | ppm 0.1 | ppm 1 | ppm 0.1 | ppm 0.1 | ppm 0.1 | ppm 1 | % 0.01 | ppm 0.5 | ppm 0.1 | ppb 0.5 | ppm 0.1 | ppm 1 | ppm 0.1 | ppm 0.1 | ppm 0.1 | ppm 2 | % 0.01 | % 0.001 |
| CAT 59182 | Soil | 0.7 | 60.6 | 7.6 | 48 | <0.1 | 25.4 | 10.7 | 289 | 2.54 | 9.7 | 0.4 | 2.3 | 3.7 | 21 | <0.1 | 0.6 | 0.2 | 59 | 0.30 | 0.035 |
| CAT 59183 | Soil | 0.8 | 31.4 | 10.5 | 58 | <0.1 | 47.5 | 12.3 | 436 | 2.28 | 39.6 | 0.8 | 7.5 | 3.0 | 41 | 0.1 | 1.1 | 0.1 | 47 | 0.62 | 0.079 |
| CAT 59184 | Soil | 0.7 | 73.1 | 6.7 | 53 | <0.1 | 21.4 | 12.4 | 332 | 2.44 | 5.9 | 1.3 | 5.9 | 3.0 | 32 | 0.1 | 0.5 | 0.1 | 54 | 0.56 | 0.073 |
| CAT 59186 | Soil | 0.7 | 110.9 | 5.2 | 53 | <0.1 | 23.0 | 12.7 | 269 | 2.65 | 7.5 | 0.8 | 5.3 | 2.1 | 28 | <0.1 | 0.4 | 0.1 | 70 | 0.49 | 0.076 |
| CAT 59188 | Soil | 0.9 | 25.8 | 7.6 | 48 | <0.1 | 17.7 | 8.7 | 380 | 2.33 | 8.3 | 0.9 | 3.6 | 2.8 | 28 | <0.1 | 0.5 | 0.2 | 54 | 0.39 | 0.052 |
| CAT 59189 | Soil | 0.7 | 28.7 | 7.2 | 46 | <0.1 | 17.5 | 9.7 | 623 | 2.24 | 6.3 | 0.9 | 1.6 | 2.6 | 25 | <0.1 | 0.3 | 0.1 | 55 | 0.31 | 0.045 |
| CAT 59200 | Soil | 0.3 | 104.4 | 7.4 | 48 | 0.1 | 26.0 | 10.5 | 416 | 2.37 | 8.5 | 0.8 | 5.5 | 2.8 | 36 | 0.1 | 0.5 | 0.2 | 53 | 0.71 | 0.072 |
| CAT 59256 | Soil | 0.2 | 120.3 | 2.2 | 51 | <0.1 | 17.7 | 13.6 | 320 | 2.82 | 3.7 | 0.2 | 2.2 | 1.2 | 38 | <0.1 | 0.4 | <0.1 | 115 | 0.58 | 0.129 |
| CAT 59257 | Soil | 0.1 | 65.4 | 1.5 | 18 | <0.1 | 12.9 | 6.1 | 93 | 0.95 | 2.3 | 0.2 | 1.4 | 0.8 | 20 | <0.1 | 0.2 | <0.1 | 23 | 0.24 | 0.030 |
| CAT 59262 | Soil | 0.2 | 68.6 | 2.4 | 69 | <0.1 | 18.4 | 15.6 | 361 | 3.18 | 2.2 | 0.4 | 2.3 | 1.7 | 26 | <0.1 | 0.2 | <0.1 | 80 | 0.46 | 0.092 |
| CAT 59264 | Soil | 0.3 | 61.8 | 3.5 | 76 | <0.1 | 16.4 | 13.5 | 515 | 2.28 | 2.7 | 0.7 | 3.8 | 3.1 | 21 | <0.1 | 0.3 | <0.1 | 59 | 0.44 | 0.090 |
| CAT 59265 | Soil | 0.3 | 71.8 | 4.1 | 67 | <0.1 | 20.1 | 14.1 | 546 | 2.71 | 3.1 | 1.1 | 3.3 | 2.6 | 33 | <0.1 | 0.3 | <0.1 | 68 | 0.64 | 0.081 |
| CAT 59275 | Soil | 0.5 | 87.1 | 4.5 | 53 | <0.1 | 21.9 | 11.7 | 270 | 2.67 | 4.0 | 0.6 | 3.7 | 2.5 | 22 | <0.1 | 0.5 | <0.1 | 68 | 0.35 | 0.055 |
| CAT 59277 | Soil | 0.4 | 46.8 | 4.9 | 53 | <0.1 | 20.7 | 10.9 | 319 | 2.65 | 5.4 | 0.9 | 3.3 | 2.0 | 51 | 0.1 | 0.4 | <0.1 | 63 | 1.02 | 0.061 |
| CAT 59379 | Soil | 1.3 | 72.1 | 23.7 | 102 | <0.1 | 111.6 | 27.6 | 1024 | 5.44 | 6.0 | 1.1 | 1.6 | 9.3 | 40 | <0.1 | 0.2 | 0.2 | 100 | 0.43 | 0.081 |
| CAT 59380 | Soil | 1.6 | 28.9 | 22.4 | 111 | <0.1 | 43.3 | 13.7 | 498 | 3.22 | 8.9 | 0.8 | 17.9 | 3.5 | 30 | 0.3 | 0.4 | 0.2 | 95 | 0.28 | 0.095 |
| CAT 59383 | Soil | 1.1 | 22.5 | 10.3 | 52 | <0.1 | 22.3 | 8.8 | 289 | 2.94 | 9.5 | 0.6 | 2.5 | 4.6 | 19 | <0.1 | 0.6 | 0.2 | 62 | 0.14 | 0.018 |
| CAT 59384 | Soil | 0.5 | 45.9 | 6.4 | 54 | <0.1 | 204.0 | 24.4 | 422 | 3.51 | 2.4 | 0.9 | 1.3 | 7.1 | 46 | <0.1 | <0.1 | <0.1 | 74 | 0.51 | 0.053 |
| CAT 59385 | Soil | 0.3 | 25.7 | 5.4 | 54 | <0.1 | 232.4 | 33.2 | 432 | 3.43 | 2.8 | 0.4 | 1.1 | 2.8 | 35 | <0.1 | <0.1 | <0.1 | 93 | 0.37 | 0.025 |
| CAT 59387 | Soil | 1.7 | 70.9 | 21.3 | 74 | <0.1 | 34.3 | 11.1 | 663 | 4.16 | 2.2 | 2.7 | 2.1 | 17.3 | 59 | <0.1 | 0.1 | 0.3 | 93 | 0.39 | 0.057 |
| CAT 59388 | Soil | 1.1 | 34.8 | 12.7 | 104 | <0.1 | 57.5 | 17.7 | 325 | 4.03 | 3.3 | 0.9 | 2.6 | 11.3 | 22 | <0.1 | 0.1 | 0.1 | 71 | 0.28 | 0.080 |
| CAT 59389 | Soil | 1.1 | 37.3 | 12.1 | 108 | <0.1 | 58.2 | 18.3 | 368 | 4.17 | 3.4 | 1.0 | 1.1 | 11.2 | 24 | <0.1 | 0.1 | 0.1 | 78 | 0.28 | 0.079 |
| CAT 59393 | Soil | 1.0 | 25.1 | 9.9 | 63 | <0.1 | 27.8 | 10.5 | 397 | 3.01 | 6.9 | 1.1 | 3.1 | 7.6 | 20 | <0.1 | 0.4 | 0.2 | 58 | 0.19 | 0.034 |
| CAT 59400 | Soil | 6.2 | 31.8 | 62.2 | 74 | 0.3 | 27.6 | 12.7 | 599 | 3.01 | 8.7 | 1.0 | 54.6 | 4.7 | 33 | 0.2 | 0.4 | 0.3 | 67 | 0.32 | 0.053 |
| CAT 59402 | Soil | 1.1 | 31.3 | 12.6 | 75 | 0.1 | 59.1 | 10.5 | 333 | 3.02 | 5.4 | 0.8 | 9.4 | 5.8 | 32 | 0.3 | 0.2 | 0.1 | 68 | 0.47 | 0.057 |
| CAT 59403 | Soil | 0.8 | 42.6 | 15.9 | 98 | 0.1 | 86.6 | 16.0 | 556 | 3.41 | 5.7 | 1.0 | 6.7 | 6.6 | 40 | 0.3 | 0.2 | 0.2 | 72 | 0.52 | 0.077 |
| CAT 59408 | Soil | 0.8 | 42.9 | 14.5 | 107 | 0.1 | 73.8 | 18.6 | 716 | 3.14 | 4.8 | 1.5 | 4.5 | 6.0 | 46 | 0.2 | 0.2 | 0.1 | 65 | 0.71 | 0.066 |
| CAT 59409 | Soil | 0.8 | 37.9 | 9.2 | 80 | 0.1 | 27.9 | 11.7 | 478 | 3.19 | 4.9 | 1.5 | 4.5 | 7.1 | 45 | 0.2 | 0.3 | 0.1 | 61 | 0.67 | 0.082 |
| CAT 59410 | Soil | 0.6 | 55.5 | 11.1 | 77 | 0.1 | 42.8 | 12.6 | 522 | 3.26 | 7.1 | 1.6 | 3.5 | 7.3 | 46 | 0.1 | 0.5 | 0.2 | 60 | 0.73 | 0.057 |
| CAT 59411 | Soil | 0.9 | 59.1 | 13.2 | 119 | <0.1 | 63.8 | 18.0 | 616 | 5.08 | 2.9 | 1.9 | 1.3 | 15.0 | 27 | 0.1 | 0.2 | 0.1 | 91 | 0.32 | 0.059 |



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Project: CAT
Report Date: September 21, 2009

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CERTIFICATE OF ANALYSIS

VAN09004098.1

| | Method Analyte Unit MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se |
| | | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm |
| | | 1 | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 |
| CAT 59182 | Soil | 10 | 34 | 0.56 | 282 | 0.087 | 2 | 1.49 | 0.014 | 0.14 | 0.2 | 0.01 | 5.0 | <0.1 | <0.05 | 4 | <0.5 |
| CAT 59183 | Soil | 11 | 54 | 0.76 | 318 | 0.063 | 2 | 1.02 | 0.021 | 0.13 | 0.2 | 0.02 | 3.2 | 0.1 | <0.05 | 3 | <0.5 |
| CAT 59184 | Soil | 9 | 36 | 0.78 | 333 | 0.106 | 2 | 1.39 | 0.024 | 0.13 | 0.2 | 0.04 | 4.0 | 0.1 | <0.05 | 4 | <0.5 |
| CAT 59186 | Soil | 7 | 37 | 0.94 | 471 | 0.142 | 2 | 1.70 | 0.019 | 0.26 | 0.1 | 0.03 | 3.5 | <0.1 | <0.05 | 5 | <0.5 |
| CAT 59188 | Soil | 10 | 27 | 0.50 | 351 | 0.072 | 1 | 1.48 | 0.017 | 0.08 | 0.2 | 0.02 | 2.9 | <0.1 | <0.05 | 4 | <0.5 |
| CAT 59189 | Soil | 9 | 24 | 0.48 | 287 | 0.073 | 1 | 1.33 | 0.018 | 0.05 | 0.2 | 0.02 | 3.0 | <0.1 | <0.05 | 4 | <0.5 |
| CAT 59200 | Soil | 12 | 34 | 0.60 | 345 | 0.078 | 2 | 1.24 | 0.024 | 0.10 | 0.2 | 0.05 | 3.9 | <0.1 | <0.05 | 4 | 0.7 |
| CAT 59256 | Soil | 6 | 20 | 1.08 | 301 | 0.174 | <1 | 1.78 | 0.043 | 0.49 | <0.1 | <0.01 | 4.5 | <0.1 | <0.05 | 5 | <0.5 |
| CAT 59257 | Soil | 4 | 30 | 0.40 | 81 | 0.061 | <1 | 0.81 | 0.015 | 0.04 | <0.1 | <0.01 | 1.8 | <0.1 | <0.05 | 2 | <0.5 |
| CAT 59262 | Soil | 7 | 42 | 1.30 | 364 | 0.196 | <1 | 1.88 | 0.016 | 0.45 | 0.1 | 0.01 | 5.8 | 0.2 | <0.05 | 7 | <0.5 |
| CAT 59264 | Soil | 11 | 27 | 0.89 | 406 | 0.099 | <1 | 1.39 | 0.016 | 0.23 | <0.1 | 0.01 | 6.2 | <0.1 | <0.05 | 5 | <0.5 |
| CAT 59265 | Soil | 12 | 41 | 1.01 | 473 | 0.102 | 1 | 1.54 | 0.016 | 0.23 | 0.1 | 0.02 | 7.1 | <0.1 | <0.05 | 5 | <0.5 |
| CAT 59275 | Soil | 7 | 49 | 0.93 | 219 | 0.114 | 1 | 1.61 | 0.016 | 0.12 | <0.1 | <0.01 | 3.8 | <0.1 | <0.05 | 6 | <0.5 |
| CAT 59277 | Soil | 9 | 41 | 1.06 | 233 | 0.069 | 2 | 1.61 | 0.024 | 0.11 | 0.2 | 0.02 | 6.4 | <0.1 | <0.05 | 5 | 0.6 |
| CAT 59379 | Soil | 22 | 163 | 1.82 | 519 | 0.274 | <1 | 3.29 | 0.015 | 1.20 | <0.1 | <0.01 | 8.0 | 0.6 | <0.05 | 11 | <0.5 |
| CAT 59380 | Soil | 12 | 57 | 0.75 | 327 | 0.109 | <1 | 1.66 | 0.014 | 0.17 | 0.2 | <0.01 | 3.6 | 0.2 | <0.05 | 6 | <0.5 |
| CAT 59383 | Soil | 9 | 36 | 0.62 | 213 | 0.094 | <1 | 1.83 | 0.018 | 0.09 | <0.1 | 0.01 | 3.3 | <0.1 | <0.05 | 5 | <0.5 |
| CAT 59384 | Soil | 18 | 456 | 2.45 | 376 | 0.232 | <1 | 2.86 | 0.016 | 0.76 | <0.1 | 0.01 | 5.4 | 0.5 | <0.05 | 8 | <0.5 |
| CAT 59385 | Soil | 10 | 644 | 2.84 | 439 | 0.340 | <1 | 3.91 | 0.023 | 1.08 | <0.1 | <0.01 | 2.6 | 0.5 | <0.05 | 9 | <0.5 |
| CAT 59387 | Soil | 42 | 75 | 1.67 | 431 | 0.202 | <1 | 3.66 | 0.016 | 0.95 | <0.1 | <0.01 | 9.1 | 0.6 | <0.05 | 12 | 0.8 |
| CAT 59388 | Soil | 24 | 53 | 1.56 | 241 | 0.160 | <1 | 3.23 | 0.020 | 0.74 | <0.1 | <0.01 | 4.6 | 0.4 | <0.05 | 11 | <0.5 |
| CAT 59389 | Soil | 25 | 55 | 1.60 | 252 | 0.170 | <1 | 3.26 | 0.020 | 0.75 | <0.1 | <0.01 | 4.9 | 0.4 | <0.05 | 11 | <0.5 |
| CAT 59393 | Soil | 20 | 45 | 0.67 | 176 | 0.114 | <1 | 1.98 | 0.012 | 0.20 | <0.1 | <0.01 | 3.3 | 0.2 | <0.05 | 6 | <0.5 |
| CAT 59400 | Soil | 17 | 36 | 0.49 | 517 | 0.070 | 1 | 1.77 | 0.013 | 0.10 | 0.1 | 0.03 | 4.5 | 0.1 | <0.05 | 6 | <0.5 |
| CAT 59402 | Soil | 17 | 60 | 0.85 | 466 | 0.135 | <1 | 1.59 | 0.016 | 0.24 | 0.1 | 0.02 | 4.6 | 0.2 | <0.05 | 6 | <0.5 |
| CAT 59403 | Soil | 18 | 82 | 1.29 | 420 | 0.148 | 1 | 1.75 | 0.019 | 0.29 | <0.1 | 0.02 | 5.9 | 0.3 | <0.05 | 7 | <0.5 |
| CAT 59408 | Soil | 25 | 89 | 1.06 | 467 | 0.146 | <1 | 1.91 | 0.019 | 0.29 | 0.1 | 0.02 | 5.2 | 0.3 | <0.05 | 7 | <0.5 |
| CAT 59409 | Soil | 29 | 39 | 0.90 | 346 | 0.152 | <1 | 1.80 | 0.022 | 0.43 | 0.3 | 0.05 | 6.3 | 0.2 | <0.05 | 7 | <0.5 |
| CAT 59410 | Soil | 36 | 41 | 0.83 | 371 | 0.154 | 2 | 1.82 | 0.030 | 0.44 | 0.2 | 0.02 | 5.2 | 0.2 | <0.05 | 6 | <0.5 |
| CAT 59411 | Soil | 31 | 70 | 1.38 | 366 | 0.315 | <1 | 2.64 | 0.014 | 1.40 | <0.1 | <0.01 | 7.6 | 0.7 | <0.05 | 10 | 0.7 |



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Project: CAT
Report Date: September 21, 2009

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QUALITY CONTROL REPORT

VAN09004098.1

| | Method Analyte Unit MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P |
| | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % |
| | | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.1 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | | |
| CAT 48058 | Soil | 1.3 | 45.7 | 15.4 | 87 | <0.1 | 40.2 | 16.8 | 505 | 4.56 | 6.1 | 2.4 | 2.0 | 12.7 | 29 | <0.1 | 0.5 | 0.2 | 71 | 0.20 | 0.029 |
| REP CAT 48058 | QC | 1.4 | 47.2 | 15.6 | 88 | <0.1 | 41.6 | 16.9 | 494 | 4.46 | 6.7 | 2.5 | 3.1 | 13.2 | 31 | <0.1 | 0.5 | 0.2 | 71 | 0.20 | 0.029 |
| CAT 48075 | Soil | 0.5 | 48.4 | 9.2 | 84 | <0.1 | 341.7 | 22.5 | 395 | 3.37 | 6.5 | 0.8 | 1.4 | 2.6 | 28 | 0.2 | 0.2 | 0.1 | 78 | 0.41 | 0.055 |
| REP CAT 48075 | QC | 0.6 | 45.2 | 8.9 | 85 | <0.1 | 332.9 | 21.8 | 382 | 3.35 | 6.5 | 0.8 | 1.2 | 2.7 | 28 | 0.2 | 0.2 | 0.1 | 77 | 0.42 | 0.054 |
| CAT 51336 | Soil | 1.0 | 36.7 | 7.0 | 55 | 0.2 | 32.2 | 10.4 | 341 | 2.46 | 7.7 | 1.3 | 2.7 | 4.0 | 31 | 0.1 | 0.5 | 0.1 | 59 | 0.41 | 0.078 |
| REP CAT 51336 | QC | 1.0 | 35.9 | 7.3 | 55 | 0.2 | 32.5 | 10.3 | 351 | 2.47 | 8.2 | 1.3 | 2.0 | 4.1 | 32 | 0.1 | 0.5 | 0.1 | 62 | 0.43 | 0.078 |
| CAT 51397 | Soil | 0.9 | 25.1 | 6.7 | 43 | <0.1 | 20.5 | 8.6 | 232 | 2.31 | 8.2 | 0.5 | 2.0 | 2.4 | 24 | 0.1 | 0.4 | 0.1 | 57 | 0.29 | 0.054 |
| REP CAT 51397 | QC | 0.9 | 26.3 | 6.5 | 46 | <0.1 | 22.6 | 9.3 | 251 | 2.48 | 8.4 | 0.5 | 3.9 | 2.7 | 25 | 0.1 | 0.4 | 0.1 | 62 | 0.31 | 0.057 |
| CAT 51430 | Soil | 1.8 | 54.0 | 11.8 | 99 | <0.1 | 38.4 | 14.1 | 338 | 3.69 | 27.4 | 1.3 | 2.0 | 6.1 | 32 | 0.2 | 0.5 | 0.2 | 99 | 0.17 | 0.040 |
| REP CAT 51430 | QC | 1.8 | 50.8 | 12.0 | 93 | <0.1 | 36.4 | 13.4 | 316 | 3.59 | 27.4 | 1.3 | 1.8 | 6.1 | 32 | 0.2 | 0.5 | 0.1 | 97 | 0.16 | 0.040 |
| CAT 51444 | Soil | 0.7 | 44.4 | 8.8 | 61 | <0.1 | 29.1 | 12.1 | 451 | 3.08 | 6.0 | 1.6 | 2.8 | 6.9 | 29 | 0.1 | 0.4 | 0.2 | 59 | 0.46 | 0.049 |
| REP CAT 51444 | QC | 0.7 | 46.5 | 8.9 | 60 | <0.1 | 29.1 | 12.1 | 465 | 3.20 | 5.8 | 1.7 | 2.6 | 6.7 | 30 | 0.1 | 0.3 | 0.2 | 60 | 0.48 | 0.050 |
| CAT 52504 | Soil | 3.2 | 54.5 | 7.4 | 128 | 0.3 | 49.9 | 11.2 | 495 | 3.19 | 48.0 | 2.2 | 5.0 | 6.0 | 31 | 0.2 | 2.3 | 0.4 | 56 | 0.39 | 0.090 |
| REP CAT 52504 | QC | 3.3 | 54.3 | 7.6 | 130 | 0.3 | 49.3 | 11.2 | 489 | 3.11 | 48.1 | 2.2 | 5.8 | 5.8 | 31 | 0.3 | 2.4 | 0.4 | 55 | 0.40 | 0.090 |
| CAT 52600 | Soil | 0.8 | 62.8 | 12.5 | 121 | 0.1 | 15.9 | 11.7 | 936 | 4.59 | 2.6 | 1.8 | 2.5 | 11.3 | 45 | 0.2 | 0.5 | 0.2 | 47 | 0.49 | 0.128 |
| REP CAT 52600 | QC | 0.8 | 66.2 | 12.5 | 124 | 0.1 | 16.9 | 12.0 | 965 | 4.75 | 2.3 | 1.7 | 3.4 | 11.2 | 44 | 0.2 | 0.5 | 0.2 | 46 | 0.51 | 0.123 |
| CAT 52718 | Soil | 1.1 | 22.7 | 11.4 | 60 | <0.1 | 28.2 | 11.5 | 279 | 3.40 | 8.4 | 0.7 | 1.1 | 6.0 | 15 | <0.1 | 0.6 | 0.2 | 72 | 0.16 | 0.021 |
| REP CAT 52718 | QC | 1.2 | 22.6 | 11.2 | 57 | <0.1 | 27.4 | 11.1 | 266 | 3.31 | 8.2 | 0.6 | 2.1 | 5.8 | 14 | <0.1 | 0.5 | 0.2 | 68 | 0.15 | 0.021 |
| CAT 52750 | Soil | 1.9 | 54.2 | 12.3 | 119 | 0.4 | 105.1 | 20.2 | 937 | 3.94 | 51.8 | 1.6 | 1.3 | 4.5 | 26 | 0.5 | 1.8 | 0.2 | 98 | 0.34 | 0.085 |
| REP CAT 52750 | QC | 1.9 | 53.7 | 12.6 | 122 | 0.4 | 108.6 | 20.8 | 933 | 3.96 | 51.6 | 1.5 | 2.1 | 4.4 | 27 | 0.5 | 1.8 | 0.2 | 97 | 0.34 | 0.082 |
| CAT 52866 | Soil | 0.2 | 94.9 | 2.9 | 43 | <0.1 | 15.2 | 12.1 | 257 | 2.21 | 3.3 | 0.1 | <0.5 | 0.7 | 21 | <0.1 | 0.4 | <0.1 | 68 | 0.33 | 0.063 |
| REP CAT 52866 | QC | 0.3 | 93.0 | 2.8 | 43 | <0.1 | 14.6 | 12.2 | 261 | 2.29 | 3.5 | 0.1 | 0.8 | 0.7 | 21 | <0.1 | 0.3 | <0.1 | 69 | 0.34 | 0.065 |
| CAT 52891 | Soil | 0.6 | 72.0 | 7.4 | 59 | <0.1 | 13.5 | 13.5 | 427 | 2.83 | 5.3 | 0.4 | <0.5 | 1.9 | 15 | <0.1 | 0.8 | <0.1 | 72 | 0.33 | 0.077 |
| REP CAT 52891 | QC | 0.5 | 75.2 | 7.4 | 60 | <0.1 | 14.4 | 13.7 | 433 | 2.81 | 5.1 | 0.5 | 0.7 | 1.9 | 16 | 0.1 | 0.9 | <0.1 | 74 | 0.36 | 0.076 |
| CAT 52946 | Soil | 0.9 | 48.7 | 11.4 | 67 | <0.1 | 55.3 | 18.9 | 631 | 3.87 | 9.4 | 0.8 | 1.6 | 7.9 | 59 | <0.1 | 0.5 | 0.1 | 83 | 0.51 | 0.055 |
| REP CAT 52946 | QC | 0.8 | 49.0 | 11.2 | 67 | <0.1 | 54.7 | 18.7 | 616 | 3.81 | 9.5 | 0.8 | 1.3 | 7.9 | 56 | <0.1 | 0.5 | 0.2 | 81 | 0.51 | 0.056 |
| CAT 59007 | Soil | 1.1 | 48.8 | 18.0 | 98 | <0.1 | 57.2 | 24.2 | 549 | 4.23 | 5.0 | 1.2 | 1.4 | 12.5 | 18 | <0.1 | 0.3 | 0.2 | 64 | 0.19 | 0.024 |
| REP CAT 59007 | QC | 1.2 | 48.0 | 17.7 | 98 | <0.1 | 56.0 | 24.0 | 543 | 4.21 | 4.8 | 1.2 | 1.7 | 12.3 | 18 | <0.1 | 0.3 | 0.2 | 62 | 0.18 | 0.022 |



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QUALITY CONTROL REPORT

VAN09004098.1

| | Method Analyte Unit MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se |
| | | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm |
| | | 1 | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | |
| CAT 48058 | Soil | 37 | 66 | 1.03 | 314 | 0.205 | 1 | 2.76 | 0.013 | 0.53 | <0.1 | 0.02 | 7.7 | 0.4 | <0.05 | 9 | 0.7 |
| REP CAT 48058 | QC | 38 | 67 | 1.07 | 312 | 0.210 | 1 | 2.90 | 0.014 | 0.53 | <0.1 | 0.02 | 7.8 | 0.5 | <0.05 | 9 | 0.6 |
| CAT 48075 | Soil | 11 | 306 | 2.61 | 427 | 0.077 | 3 | 1.98 | 0.019 | 0.10 | <0.1 | 0.02 | 6.6 | 0.2 | <0.05 | 7 | <0.5 |
| REP CAT 48075 | QC | 11 | 295 | 2.61 | 420 | 0.078 | 3 | 1.94 | 0.020 | 0.10 | <0.1 | 0.02 | 6.6 | 0.2 | <0.05 | 7 | <0.5 |
| CAT 51336 | Soil | 14 | 34 | 0.53 | 371 | 0.068 | 2 | 1.46 | 0.020 | 0.07 | 0.2 | 0.03 | 4.3 | <0.1 | <0.05 | 4 | 0.5 |
| REP CAT 51336 | QC | 15 | 35 | 0.53 | 383 | 0.068 | 1 | 1.43 | 0.020 | 0.07 | 0.1 | 0.03 | 4.4 | <0.1 | <0.05 | 4 | 0.5 |
| CAT 51397 | Soil | 9 | 32 | 0.52 | 261 | 0.064 | <1 | 1.51 | 0.014 | 0.06 | 0.1 | 0.01 | 2.8 | <0.1 | <0.05 | 4 | <0.5 |
| REP CAT 51397 | QC | 9 | 34 | 0.57 | 279 | 0.069 | <1 | 1.61 | 0.015 | 0.07 | 0.1 | 0.01 | 2.9 | <0.1 | <0.05 | 5 | <0.5 |
| CAT 51430 | Soil | 23 | 60 | 0.78 | 370 | 0.153 | <1 | 2.10 | 0.012 | 0.28 | <0.1 | 0.02 | 4.8 | 0.2 | <0.05 | 7 | 0.7 |
| REP CAT 51430 | QC | 23 | 59 | 0.81 | 379 | 0.151 | <1 | 2.16 | 0.015 | 0.27 | 0.1 | 0.01 | 4.7 | 0.2 | <0.05 | 7 | 0.8 |
| CAT 51444 | Soil | 36 | 37 | 0.73 | 317 | 0.131 | <1 | 1.68 | 0.023 | 0.26 | 0.3 | 0.04 | 5.3 | 0.2 | <0.05 | 6 | 1.4 |
| REP CAT 51444 | QC | 37 | 39 | 0.76 | 328 | 0.134 | <1 | 1.75 | 0.024 | 0.27 | 0.2 | 0.04 | 5.4 | 0.2 | <0.05 | 6 | 0.7 |
| CAT 52504 | Soil | 27 | 31 | 0.58 | 327 | 0.076 | <1 | 1.44 | 0.013 | 0.45 | 0.2 | 0.02 | 3.0 | 0.4 | <0.05 | 5 | 1.4 |
| REP CAT 52504 | QC | 26 | 31 | 0.57 | 329 | 0.073 | <1 | 1.44 | 0.012 | 0.45 | 0.2 | 0.02 | 3.0 | 0.4 | <0.05 | 5 | 1.6 |
| CAT 52600 | Soil | 28 | 18 | 1.25 | 1242 | 0.171 | <1 | 2.15 | 0.010 | 0.53 | 0.1 | 0.03 | 4.7 | 0.4 | <0.05 | 11 | <0.5 |
| REP CAT 52600 | QC | 29 | 18 | 1.25 | 1252 | 0.177 | <1 | 2.19 | 0.010 | 0.54 | 0.2 | 0.02 | 5.1 | 0.4 | <0.05 | 10 | <0.5 |
| CAT 52718 | Soil | 12 | 44 | 0.59 | 204 | 0.101 | <1 | 2.11 | 0.010 | 0.18 | 0.1 | 0.01 | 3.5 | 0.2 | <0.05 | 7 | <0.5 |
| REP CAT 52718 | QC | 12 | 43 | 0.56 | 204 | 0.095 | <1 | 2.06 | 0.010 | 0.18 | 0.1 | <0.01 | 3.4 | 0.2 | <0.05 | 6 | <0.5 |
| CAT 52750 | Soil | 20 | 107 | 1.20 | 850 | 0.075 | 3 | 1.79 | 0.013 | 0.51 | <0.1 | 0.08 | 10.2 | 0.3 | 0.08 | 6 | 0.7 |
| REP CAT 52750 | QC | 20 | 107 | 1.15 | 852 | 0.074 | 2 | 1.73 | 0.012 | 0.50 | <0.1 | 0.08 | 10.2 | 0.3 | 0.07 | 6 | 0.7 |
| CAT 52866 | Soil | 2 | 22 | 0.82 | 155 | 0.074 | <1 | 1.35 | 0.016 | 0.03 | <0.1 | <0.01 | 2.6 | <0.1 | <0.05 | 4 | <0.5 |
| REP CAT 52866 | QC | 2 | 23 | 0.78 | 149 | 0.075 | <1 | 1.41 | 0.017 | 0.03 | <0.1 | <0.01 | 2.7 | <0.1 | <0.05 | 4 | <0.5 |
| CAT 52891 | Soil | 5 | 19 | 0.88 | 244 | 0.068 | 1 | 1.42 | 0.014 | 0.15 | 0.1 | 0.01 | 4.4 | <0.1 | <0.05 | 5 | <0.5 |
| REP CAT 52891 | QC | 5 | 19 | 0.88 | 244 | 0.077 | 1 | 1.50 | 0.015 | 0.16 | 0.1 | 0.01 | 4.7 | <0.1 | <0.05 | 6 | <0.5 |
| CAT 52946 | Soil | 30 | 74 | 1.07 | 413 | 0.154 | 2 | 2.02 | 0.021 | 0.46 | 0.1 | 0.03 | 6.7 | 0.2 | <0.05 | 7 | <0.5 |
| REP CAT 52946 | QC | 30 | 72 | 1.04 | 405 | 0.150 | 1 | 1.99 | 0.020 | 0.48 | 0.1 | 0.02 | 6.8 | 0.2 | <0.05 | 7 | <0.5 |
| CAT 59007 | Soil | 29 | 46 | 1.10 | 219 | 0.137 | <1 | 2.39 | 0.015 | 0.58 | <0.1 | <0.01 | 5.0 | 0.4 | <0.05 | 7 | 0.5 |
| REP CAT 59007 | QC | 28 | 47 | 1.05 | 218 | 0.137 | <1 | 2.30 | 0.016 | 0.56 | <0.1 | <0.01 | 5.0 | 0.4 | <0.05 | 7 | <0.5 |



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Project: CAT

Report Date: September 21, 2009

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QUALITY CONTROL REPORT

VAN09004098.1

| | | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P |
| | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % |
| | | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.1 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 |
| CAT 59069 | Soil | 1.4 | 33.0 | 8.3 | 66 | 0.2 | 30.8 | 12.3 | 528 | 2.87 | 4.1 | 1.2 | 5.4 | 5.5 | 71 | 0.1 | 0.3 | 0.1 | 61 | 0.74 | 0.061 |
| REP CAT 59069 | QC | 1.4 | 34.1 | 8.5 | 68 | 0.2 | 34.0 | 13.1 | 522 | 2.90 | 4.4 | 1.2 | 6.1 | 5.4 | 72 | 0.2 | 0.3 | 0.1 | 60 | 0.73 | 0.061 |
| CAT 59183 | Soil | 0.8 | 31.4 | 10.5 | 58 | <0.1 | 47.5 | 12.3 | 436 | 2.28 | 39.6 | 0.8 | 7.5 | 3.0 | 41 | 0.1 | 1.1 | 0.1 | 47 | 0.62 | 0.079 |
| REP CAT 59183 | QC | 0.7 | 34.3 | 10.1 | 58 | <0.1 | 47.0 | 12.6 | 447 | 2.25 | 39.5 | 0.9 | 5.1 | 2.9 | 41 | 0.1 | 1.0 | 0.1 | 46 | 0.59 | 0.075 |
| CAT 59387 | Soil | 1.7 | 70.9 | 21.3 | 74 | <0.1 | 34.3 | 11.1 | 663 | 4.16 | 2.2 | 2.7 | 2.1 | 17.3 | 59 | <0.1 | 0.1 | 0.3 | 93 | 0.39 | 0.057 |
| REP CAT 59387 | QC | 1.5 | 67.1 | 19.6 | 77 | <0.1 | 36.7 | 11.4 | 646 | 4.26 | 2.1 | 2.5 | 1.7 | 17.1 | 56 | <0.1 | 0.1 | 0.3 | 90 | 0.37 | 0.052 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS7 | Standard | 20.6 | 107.4 | 75.9 | 393 | 0.9 | 56.6 | 9.3 | 606 | 2.33 | 50.4 | 5.2 | 170.3 | 4.9 | 72 | 6.4 | 5.8 | 4.9 | 84 | 0.94 | 0.076 |
| STD DS7 | Standard | 20.8 | 110.6 | 68.9 | 405 | 0.9 | 57.9 | 9.2 | 612 | 2.31 | 53.3 | 4.8 | 62.0 | 4.4 | 69 | 6.6 | 6.1 | 5.0 | 83 | 0.90 | 0.089 |
| STD DS7 | Standard | 20.5 | 116.5 | 67.2 | 413 | 0.8 | 58.5 | 9.9 | 609 | 2.41 | 53.8 | 5.0 | 64.2 | 4.5 | 73 | 6.5 | 6.1 | 4.8 | 88 | 0.97 | 0.086 |
| STD DS7 | Standard | 20.6 | 116.3 | 70.5 | 408 | 0.9 | 58.8 | 9.7 | 591 | 2.28 | 53.7 | 4.9 | 123.9 | 4.3 | 66 | 6.6 | 6.0 | 4.8 | 88 | 0.90 | 0.084 |
| STD DS7 | Standard | 21.2 | 114.3 | 77.8 | 421 | 0.9 | 62.3 | 10.0 | 631 | 2.45 | 52.5 | 5.3 | 60.5 | 4.9 | 70 | 6.5 | 5.8 | 4.7 | 86 | 0.98 | 0.081 |
| STD DS7 | Standard | 20.7 | 110.0 | 66.3 | 409 | 0.8 | 55.4 | 9.3 | 609 | 2.38 | 55.8 | 4.8 | 62.6 | 4.3 | 68 | 6.7 | 5.9 | 4.6 | 84 | 0.94 | 0.084 |
| STD DS7 | Standard | 20.5 | 113.9 | 65.7 | 408 | 0.8 | 56.8 | 9.3 | 592 | 2.34 | 53.0 | 4.9 | 62.6 | 4.4 | 69 | 6.9 | 5.9 | 4.7 | 85 | 0.91 | 0.086 |
| STD DS7 | Standard | 19.5 | 119.4 | 75.5 | 422 | 0.8 | 56.9 | 9.3 | 611 | 2.32 | 53.7 | 5.7 | 68.3 | 4.8 | 79 | 6.4 | 6.5 | 5.2 | 79 | 0.95 | 0.079 |
| STD DS7 | Standard | 19.5 | 113.5 | 69.9 | 413 | 0.8 | 53.5 | 8.8 | 576 | 2.27 | 51.7 | 5.0 | 76.5 | 4.7 | 80 | 6.0 | 6.2 | 4.9 | 76 | 0.91 | 0.080 |
| STD DS7 Expected | | 20.5 | 109 | 70.6 | 411 | 0.9 | 56 | 9.7 | 627 | 2.39 | 48.2 | 4.9 | 70 | 4.4 | 69 | 6.4 | 4.6 | 4.5 | 84 | 0.93 | 0.08 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.1 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.1 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.1 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.1 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.1 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.1 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | 0.01 | <0.5 | <0.1 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.1 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.1 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 |



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Report Date: September 21, 2009

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QUALITY CONTROL REPORT

VAN09004098.1

| | | 1DX15 La ppm | 1DX15 Cr ppm | 1DX15 Mg % | 1DX15 Ba ppm | 1DX15 Ti % | 1DX15 B ppm | 1DX15 Al % | 1DX15 Na % | 1DX15 K % | 1DX15 W ppm | 1DX15 Hg ppm | 1DX15 Sc ppm | 1DX15 Ti ppm | 1DX15 S % | 1DX15 Ga ppm | 1DX15 Se ppm |
|---------------------|----------|--------------------|--------------------|------------------|--------------------|------------------|-------------------|------------------|------------------|-----------------|-------------------|--------------------|--------------------|--------------------|-----------------|--------------------|--------------------|
| | | 1 | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 |
| CAT 59069 | Soil | 27 | 44 | 0.73 | 458 | 0.120 | <1 | 1.58 | 0.017 | 0.33 | 0.1 | 0.04 | 4.4 | 0.2 | <0.05 | 6 | 0.5 |
| REP CAT 59069 | QC | 26 | 44 | 0.74 | 447 | 0.118 | <1 | 1.68 | 0.017 | 0.34 | 0.2 | 0.04 | 4.3 | 0.2 | <0.05 | 6 | 0.7 |
| CAT 59183 | Soil | 11 | 54 | 0.76 | 318 | 0.063 | 2 | 1.02 | 0.021 | 0.13 | 0.2 | 0.02 | 3.2 | 0.1 | <0.05 | 3 | <0.5 |
| REP CAT 59183 | QC | 10 | 54 | 0.71 | 307 | 0.063 | 2 | 1.00 | 0.021 | 0.12 | 0.2 | 0.02 | 3.2 | 0.1 | <0.05 | 3 | 0.5 |
| CAT 59387 | Soil | 42 | 75 | 1.67 | 431 | 0.202 | <1 | 3.66 | 0.016 | 0.95 | <0.1 | <0.01 | 9.1 | 0.6 | <0.05 | 12 | 0.8 |
| REP CAT 59387 | QC | 42 | 76 | 1.66 | 421 | 0.195 | <1 | 3.45 | 0.015 | 0.97 | <0.1 | <0.01 | 8.9 | 0.6 | <0.05 | 12 | 0.8 |
| Reference Materials | | | | | | | | | | | | | | | | | |
| STD DS7 | Standard | 13 | 169 | 0.99 | 396 | 0.116 | 38 | 0.97 | 0.085 | 0.42 | 4.2 | 0.19 | 2.2 | 4.3 | 0.19 | 5 | 4.0 |
| STD DS7 | Standard | 12 | 156 | 1.02 | 393 | 0.111 | 39 | 0.95 | 0.089 | 0.41 | 4.3 | 0.20 | 2.5 | 4.1 | 0.20 | 4 | 3.9 |
| STD DS7 | Standard | 13 | 175 | 1.05 | 387 | 0.128 | 39 | 0.99 | 0.095 | 0.41 | 4.1 | 0.19 | 2.5 | 4.2 | 0.19 | 5 | 3.8 |
| STD DS7 | Standard | 12 | 165 | 1.00 | 378 | 0.115 | 40 | 0.90 | 0.080 | 0.41 | 3.9 | 0.20 | 2.3 | 4.0 | 0.20 | 4 | 3.1 |
| STD DS7 | Standard | 13 | 177 | 1.07 | 400 | 0.121 | 34 | 1.02 | 0.089 | 0.43 | 4.3 | 0.18 | 2.4 | 4.5 | 0.23 | 5 | 4.0 |
| STD DS7 | Standard | 12 | 160 | 1.00 | 384 | 0.117 | 38 | 0.95 | 0.087 | 0.41 | 4.1 | 0.19 | 2.4 | 4.1 | 0.20 | 5 | 3.6 |
| STD DS7 | Standard | 12 | 161 | 0.98 | 368 | 0.119 | 43 | 0.93 | 0.081 | 0.44 | 3.9 | 0.19 | 2.3 | 4.3 | 0.19 | 5 | 3.2 |
| STD DS7 | Standard | 12 | 166 | 0.98 | 400 | 0.122 | 39 | 0.98 | 0.084 | 0.42 | 4.0 | 0.20 | 2.7 | 4.4 | 0.17 | 4 | 3.0 |
| STD DS7 | Standard | 12 | 155 | 1.01 | 371 | 0.118 | 39 | 0.97 | 0.086 | 0.42 | 3.8 | 0.18 | 2.5 | 3.8 | 0.18 | 4 | 3.8 |
| STD DS7 Expected | | 12 | 179 | 1.05 | 370 | 0.124 | 39 | 0.959 | 0.089 | 0.44 | 3.4 | 0.2 | 2.5 | 4.2 | 0.19 | 5 | 3.5 |
| BLK | Blank | <1 | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 |
| BLK | Blank | <1 | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 |
| BLK | Blank | <1 | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 |
| BLK | Blank | <1 | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 |
| BLK | Blank | <1 | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 |
| BLK | Blank | <1 | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 |
| BLK | Blank | <1 | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 |
| BLK | Blank | <1 | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 |
| BLK | Blank | <1 | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 |
| BLK | Blank | <1 | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 |