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Acme Analytical Laboratories (Vancouver) Ltd.

[www.acmelab.com](http://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 28, 2009  
Report Date: September 15, 2009  
Page: 1 of 11

## CERTIFICATE OF ANALYSIS

VAN09003942.1

### CLIENT JOB INFORMATION

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

### SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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: Rob McLeod  
Adrian Fleming

### 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 |
| 1DX2        | 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

VAN09003942.1

|           | Method | Analyte | Unit | MDL | 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 42570 | Soil   |         |      |     | 2.6   | 61.0  | 25.4  | 88    | 0.1   | 51.8  | 16.7  | 725   | 4.14  | 3.1   | 1.2   | 39.5  | 11.4  | 32    | 0.2   | 0.2   | 0.1   | 75    | 0.49 | 0.093 |
| CAT 42571 | Soil   |         |      |     | 2.6   | 58.6  | 13.7  | 89    | 0.1   | 61.8  | 22.7  | 878   | 4.92  | 13.0  | 2.2   | 13.2  | 16.3  | 78    | 0.2   | 0.7   | 0.1   | 85    | 0.76 | 0.200 |
| CAT 48045 | Soil   |         |      |     | 0.2   | 31.7  | 2.9   | 55    | <0.1  | 20.0  | 17.8  | 345   | 2.75  | 2.9   | 0.3   | 2.1   | 1.4   | 30    | <0.1  | 0.3   | <0.1  | 77    | 0.46 | 0.056 |
| CAT 48046 | Soil   |         |      |     | 0.3   | 112.4 | 4.0   | 43    | <0.1  | 30.0  | 11.8  | 232   | 2.21  | 3.8   | 0.4   | 4.5   | 2.0   | 18    | <0.1  | 0.4   | <0.1  | 62    | 0.38 | 0.053 |
| CAT 48047 | Soil   |         |      |     | 0.4   | 118.5 | 4.7   | 51    | <0.1  | 23.2  | 13.1  | 231   | 2.53  | 4.2   | 0.3   | 7.3   | 1.7   | 24    | <0.1  | 0.6   | <0.1  | 73    | 0.42 | 0.060 |
| CAT 48048 | Soil   |         |      |     | 0.5   | 77.0  | 4.3   | 45    | <0.1  | 19.8  | 10.6  | 224   | 2.27  | 3.7   | 0.3   | 4.2   | 2.1   | 19    | <0.1  | 0.3   | <0.1  | 70    | 0.41 | 0.059 |
| CAT 48049 | Soil   |         |      |     | 0.8   | 58.9  | 4.0   | 40    | <0.1  | 17.6  | 10.0  | 163   | 1.99  | 3.7   | 0.3   | 1.9   | 1.2   | 16    | <0.1  | 0.3   | <0.1  | 67    | 0.31 | 0.029 |
| CAT 48051 | Soil   |         |      |     | 0.3   | 30.8  | 3.6   | 53    | <0.1  | 20.3  | 16.2  | 311   | 2.75  | 3.9   | 0.4   | 2.7   | 1.7   | 29    | <0.1  | 0.3   | <0.1  | 80    | 0.47 | 0.056 |
| CAT 48054 | Soil   |         |      |     | 0.7   | 32.4  | 10.4  | 49    | <0.1  | 34.7  | 10.8  | 285   | 2.66  | 7.7   | 0.8   | 2.1   | 4.2   | 24    | <0.1  | 0.4   | 0.1   | 62    | 0.36 | 0.063 |
| CAT 48057 | Soil   |         |      |     | 1.2   | 25.8  | 11.0  | 55    | <0.1  | 26.3  | 12.8  | 344   | 3.51  | 8.3   | 0.8   | 1.8   | 5.7   | 19    | <0.1  | 0.5   | 0.1   | 76    | 0.16 | 0.022 |
| CAT 48060 | Soil   |         |      |     | 1.2   | 43.9  | 14.6  | 92    | <0.1  | 40.0  | 18.2  | 605   | 4.64  | 2.7   | 1.5   | 5.1   | 12.2  | 24    | <0.1  | 0.2   | 0.1   | 73    | 0.16 | 0.047 |
| CAT 48061 | Soil   |         |      |     | 0.8   | 32.5  | 9.6   | 70    | <0.1  | 37.2  | 13.4  | 317   | 3.46  | 4.3   | 1.1   | 2.3   | 8.9   | 22    | <0.1  | 0.3   | 0.1   | 63    | 0.21 | 0.028 |
| CAT 48062 | Soil   |         |      |     | 1.7   | 38.6  | 14.9  | 66    | <0.1  | 35.1  | 14.2  | 324   | 3.40  | 5.8   | 1.1   | 61.8  | 7.6   | 17    | 0.1   | 0.4   | 0.2   | 67    | 0.16 | 0.027 |
| CAT 48063 | Soil   |         |      |     | 0.8   | 34.7  | 11.0  | 78    | <0.1  | 35.9  | 13.9  | 374   | 3.63  | 5.1   | 1.2   | 10.5  | 9.6   | 19    | <0.1  | 0.2   | 0.1   | 66    | 0.20 | 0.037 |
| CAT 48065 | Soil   |         |      |     | 0.9   | 49.2  | 15.6  | 93    | <0.1  | 39.3  | 15.3  | 491   | 4.25  | 6.0   | 2.1   | 6.8   | 13.2  | 36    | <0.1  | 0.2   | 0.2   | 68    | 0.27 | 0.031 |
| CAT 48082 | Soil   |         |      |     | 0.9   | 27.9  | 8.3   | 66    | 0.1   | 22.3  | 11.4  | 405   | 3.03  | 4.5   | 1.0   | 2.3   | 5.8   | 24    | 0.1   | 0.3   | 0.1   | 61    | 0.42 | 0.057 |
| CAT 48083 | Soil   |         |      |     | 0.7   | 28.9  | 6.6   | 56    | <0.1  | 20.8  | 10.1  | 402   | 2.92  | 5.7   | 0.9   | 2.0   | 4.0   | 33    | <0.1  | 0.4   | 0.1   | 60    | 0.68 | 0.044 |
| CAT 48084 | Soil   |         |      |     | 0.9   | 52.2  | 8.5   | 96    | <0.1  | 73.9  | 21.4  | 556   | 4.97  | 3.6   | 1.2   | 2.2   | 16.5  | 21    | <0.1  | 0.2   | 0.1   | 79    | 0.39 | 0.057 |
| CAT 48086 | Soil   |         |      |     | 1.0   | 30.8  | 7.1   | 62    | <0.1  | 24.9  | 11.2  | 426   | 3.22  | 8.3   | 0.8   | 2.9   | 4.9   | 23    | <0.1  | 0.6   | 0.1   | 69    | 0.34 | 0.031 |
| CAT 51321 | Soil   |         |      |     | 1.6   | 24.9  | 7.8   | 50    | 0.1   | 23.3  | 13.2  | 238   | 2.85  | 9.5   | 0.9   | 1.3   | 3.7   | 17    | <0.1  | 0.8   | 0.2   | 68    | 0.19 | 0.024 |
| CAT 51328 | Soil   |         |      |     | 1.4   | 40.8  | 7.3   | 56    | 0.2   | 24.4  | 10.8  | 267   | 2.90  | 8.7   | 1.8   | 3.6   | 4.4   | 28    | 0.1   | 0.7   | 0.1   | 68    | 0.38 | 0.059 |
| CAT 51329 | Soil   |         |      |     | 3.1   | 38.0  | 10.0  | 56    | 0.2   | 22.4  | 9.5   | 300   | 2.87  | 8.9   | 0.9   | 1.7   | 2.5   | 26    | 0.2   | 0.6   | 0.2   | 84    | 0.24 | 0.047 |
| CAT 51330 | Soil   |         |      |     | 2.0   | 46.8  | 5.7   | 66    | 0.1   | 28.0  | 10.3  | 261   | 3.03  | 7.5   | 1.0   | 4.6   | 2.6   | 24    | 0.2   | 0.6   | <0.1  | 86    | 0.30 | 0.051 |
| CAT 51331 | Soil   |         |      |     | 2.9   | 81.1  | 9.6   | 117   | 0.1   | 44.3  | 12.1  | 756   | 3.67  | 10.8  | 1.8   | 2.7   | 3.8   | 22    | 0.4   | 1.4   | 0.1   | 110   | 0.23 | 0.063 |
| CAT 51332 | Soil   |         |      |     | 1.7   | 51.5  | 6.9   | 88    | 0.1   | 39.1  | 11.2  | 412   | 3.05  | 11.0  | 1.6   | 2.4   | 4.5   | 27    | 0.2   | 1.8   | 0.1   | 79    | 0.42 | 0.101 |
| CAT 51333 | Soil   |         |      |     | 1.7   | 63.2  | 5.4   | 100   | 0.3   | 30.6  | 11.9  | 471   | 3.22  | 4.3   | 1.3   | 2.1   | 3.5   | 34    | 0.3   | 0.5   | <0.1  | 108   | 0.33 | 0.085 |
| CAT 51334 | Soil   |         |      |     | 3.2   | 53.3  | 9.0   | 101   | 0.1   | 41.2  | 11.9  | 453   | 3.21  | 6.3   | 1.2   | 1.0   | 3.6   | 35    | 0.2   | 0.7   | 0.2   | 72    | 0.28 | 0.070 |
| CAT 51335 | Soil   |         |      |     | 1.2   | 33.1  | 6.6   | 59    | 0.2   | 28.4  | 10.6  | 647   | 2.51  | 7.2   | 1.0   | 4.8   | 3.3   | 31    | 0.3   | 0.5   | 0.1   | 63    | 0.44 | 0.069 |
| CAT 51337 | Soil   |         |      |     | 0.8   | 28.2  | 6.2   | 55    | 0.2   | 28.6  | 9.3   | 322   | 2.42  | 9.0   | 0.9   | 2.0   | 3.1   | 32    | 0.1   | 0.8   | 0.1   | 61    | 0.48 | 0.082 |
| CAT 51338 | Soil   |         |      |     | 2.2   | 43.8  | 7.7   | 129   | 0.1   | 49.0  | 12.1  | 424   | 3.06  | 8.5   | 1.1   | 2.1   | 4.6   | 27    | 1.0   | 0.9   | 0.1   | 82    | 0.44 | 0.091 |



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Project: CAT  
Report Date: September 15, 2009

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## CERTIFICATE OF ANALYSIS

VAN09003942.1

|           | Method<br>Analyte<br>Unit<br>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 42570 | Soil                             | 36    | 72    | 0.91  | 595   | 0.130 | <1    | 2.17  | 0.010 | 0.55  | <0.1  | 0.02  | 6.6   | 0.4   | <0.05 | 10    | 0.8   |
| CAT 42571 | Soil                             | 81    | 71    | 1.10  | 605   | 0.134 | <1    | 2.27  | 0.017 | 0.45  | <0.1  | 0.04  | 6.3   | 0.3   | <0.05 | 9     | 0.6   |
| CAT 48045 | Soil                             | 6     | 66    | 1.73  | 352   | 0.208 | <1    | 2.08  | 0.017 | 0.40  | <0.1  | <0.01 | 2.6   | 0.1   | <0.05 | 5     | 0.5   |
| CAT 48046 | Soil                             | 7     | 68    | 0.85  | 302   | 0.106 | <1    | 1.58  | 0.017 | 0.11  | 0.2   | 0.01  | 3.1   | <0.1  | <0.05 | 5     | <0.5  |
| CAT 48047 | Soil                             | 6     | 35    | 0.89  | 137   | 0.122 | <1    | 1.62  | 0.019 | 0.07  | 0.1   | 0.01  | 2.7   | <0.1  | <0.05 | 4     | <0.5  |
| CAT 48048 | Soil                             | 7     | 39    | 0.76  | 206   | 0.120 | <1    | 1.23  | 0.017 | 0.13  | 0.2   | 0.01  | 2.6   | <0.1  | <0.05 | 5     | <0.5  |
| CAT 48049 | Soil                             | 5     | 35    | 0.72  | 117   | 0.127 | <1    | 1.15  | 0.018 | 0.09  | 0.2   | 0.02  | 2.0   | <0.1  | <0.05 | 5     | <0.5  |
| CAT 48051 | Soil                             | 7     | 65    | 1.48  | 327   | 0.189 | <1    | 1.99  | 0.019 | 0.32  | <0.1  | 0.01  | 2.8   | 0.1   | <0.05 | 5     | <0.5  |
| CAT 48054 | Soil                             | 15    | 46    | 0.74  | 259   | 0.097 | <1    | 1.72  | 0.016 | 0.08  | 0.1   | 0.03  | 3.7   | 0.1   | <0.05 | 5     | <0.5  |
| CAT 48057 | Soil                             | 14    | 46    | 0.73  | 182   | 0.142 | <1    | 2.35  | 0.011 | 0.19  | <0.1  | 0.01  | 3.5   | 0.2   | <0.05 | 7     | 0.5   |
| CAT 48060 | Soil                             | 30    | 92    | 1.50  | 243   | 0.324 | <1    | 3.05  | 0.013 | 1.21  | <0.1  | <0.01 | 5.3   | 0.8   | <0.05 | 10    | <0.5  |
| CAT 48061 | Soil                             | 28    | 67    | 1.01  | 208   | 0.159 | <1    | 2.27  | 0.014 | 0.43  | <0.1  | 0.03  | 3.9   | 0.4   | <0.05 | 7     | <0.5  |
| CAT 48062 | Soil                             | 19    | 54    | 0.73  | 188   | 0.126 | <1    | 2.28  | 0.010 | 0.26  | <0.1  | 0.02  | 3.5   | 0.3   | <0.05 | 7     | <0.5  |
| CAT 48063 | Soil                             | 26    | 58    | 0.88  | 235   | 0.172 | 1     | 2.20  | 0.011 | 0.48  | <0.1  | 0.01  | 3.9   | 0.3   | <0.05 | 7     | 0.6   |
| CAT 48065 | Soil                             | 40    | 70    | 0.94  | 291   | 0.170 | <1    | 2.42  | 0.013 | 0.56  | <0.1  | 0.02  | 4.8   | 0.5   | <0.05 | 8     | 0.6   |
| CAT 48082 | Soil                             | 21    | 36    | 0.75  | 267   | 0.140 | <1    | 1.61  | 0.020 | 0.30  | 0.2   | 0.02  | 4.7   | 0.2   | <0.05 | 6     | <0.5  |
| CAT 48083 | Soil                             | 17    | 33    | 0.67  | 276   | 0.128 | <1    | 1.48  | 0.040 | 0.21  | 0.2   | 0.01  | 4.6   | 0.1   | <0.05 | 6     | <0.5  |
| CAT 48084 | Soil                             | 38    | 92    | 1.42  | 281   | 0.252 | <1    | 2.81  | 0.017 | 1.13  | <0.1  | 0.01  | 7.4   | 0.7   | <0.05 | 9     | <0.5  |
| CAT 48086 | Soil                             | 20    | 40    | 0.71  | 328   | 0.121 | <1    | 1.64  | 0.021 | 0.17  | 0.1   | 0.03  | 6.5   | 0.1   | <0.05 | 5     | <0.5  |
| CAT 51321 | Soil                             | 12    | 41    | 0.50  | 245   | 0.065 | <1    | 1.85  | 0.013 | 0.05  | 0.1   | <0.01 | 3.0   | 0.1   | <0.05 | 5     | <0.5  |
| CAT 51328 | Soil                             | 15    | 42    | 0.63  | 383   | 0.078 | <1    | 1.69  | 0.019 | 0.06  | 0.2   | 0.03  | 4.8   | <0.1  | <0.05 | 5     | 0.7   |
| CAT 51329 | Soil                             | 10    | 46    | 0.56  | 267   | 0.086 | 1     | 1.84  | 0.015 | 0.08  | 0.2   | 0.02  | 2.9   | 0.1   | <0.05 | 6     | 1.1   |
| CAT 51330 | Soil                             | 10    | 48    | 0.56  | 254   | 0.118 | <1    | 1.48  | 0.016 | 0.12  | 0.1   | 0.01  | 3.8   | 0.1   | <0.05 | 5     | 0.8   |
| CAT 51331 | Soil                             | 15    | 60    | 0.66  | 292   | 0.082 | 1     | 1.49  | 0.010 | 0.23  | <0.1  | 0.01  | 5.3   | 0.1   | <0.05 | 6     | 1.3   |
| CAT 51332 | Soil                             | 18    | 50    | 0.63  | 419   | 0.076 | <1    | 1.55  | 0.018 | 0.19  | 0.1   | 0.02  | 4.8   | 0.1   | <0.05 | 5     | 0.7   |
| CAT 51333 | Soil                             | 15    | 75    | 1.17  | 542   | 0.176 | <1    | 1.99  | 0.013 | 0.67  | 0.1   | 0.02  | 3.5   | 0.2   | <0.05 | 7     | 0.9   |
| CAT 51334 | Soil                             | 11    | 40    | 0.51  | 348   | 0.068 | <1    | 1.37  | 0.014 | 0.13  | 0.2   | 0.01  | 3.6   | 0.1   | <0.05 | 5     | 1.1   |
| CAT 51335 | Soil                             | 13    | 37    | 0.51  | 404   | 0.080 | <1    | 1.50  | 0.022 | 0.08  | 0.2   | 0.03  | 3.5   | <0.1  | <0.05 | 5     | 0.6   |
| CAT 51337 | Soil                             | 13    | 34    | 0.51  | 315   | 0.067 | 1     | 1.40  | 0.024 | 0.05  | 0.1   | 0.02  | 4.2   | <0.1  | <0.05 | 4     | 0.5   |
| CAT 51338 | Soil                             | 16    | 50    | 0.64  | 507   | 0.082 | <1    | 1.67  | 0.016 | 0.18  | 0.1   | 0.02  | 4.1   | 0.1   | <0.05 | 5     | 0.8   |



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## CERTIFICATE OF ANALYSIS

VAN09003942.1

|           | Method<br>Analyte<br>Unit<br>MDL | 1DX15            | 1DX15            | 1DX15            | 1DX15          | 1DX15            | 1DX15            | 1DX15            | 1DX15          | 1DX15           | 1DX15            | 1DX15           | 1DX15            | 1DX15            | 1DX15          | 1DX15            | 1DX15            | 1DX15            | 1DX15         | 1DX15           | 1DX15           |
|-----------|----------------------------------|------------------|------------------|------------------|----------------|------------------|------------------|------------------|----------------|-----------------|------------------|-----------------|------------------|------------------|----------------|------------------|------------------|------------------|---------------|-----------------|-----------------|
|           |                                  | Mo<br>ppm<br>0.1 | Cu<br>ppm<br>0.1 | Pb<br>ppm<br>0.1 | Zn<br>ppm<br>1 | Ag<br>ppm<br>0.1 | Ni<br>ppm<br>0.1 | Co<br>ppm<br>0.1 | Mn<br>ppm<br>1 | Fe<br>%<br>0.01 | As<br>ppm<br>0.5 | U<br>ppm<br>0.1 | Au<br>ppb<br>0.5 | Th<br>ppm<br>0.1 | Sr<br>ppm<br>1 | Cd<br>ppm<br>0.1 | Sb<br>ppm<br>0.1 | Bi<br>ppm<br>0.1 | V<br>ppm<br>2 | Ca<br>%<br>0.01 | P<br>%<br>0.001 |
| CAT 51339 | Soil                             | 1.9              | 50.6             | 7.4              | 81             | 0.4              | 28.3             | 13.9             | 498            | 2.86            | 7.4              | 1.7             | 1.1              | 3.8              | 35             | 0.4              | 0.6              | 0.2              | 123           | 0.53            | 0.121           |
| CAT 51340 | Soil                             | 2.3              | 42.4             | 6.3              | 118            | 0.4              | 24.0             | 8.5              | 528            | 2.83            | 5.8              | 2.6             | 1.0              | 5.3              | 32             | 0.3              | 0.5              | 0.1              | 122           | 0.38            | 0.076           |
| CAT 51341 | Soil                             | 3.6              | 68.1             | 10.6             | 117            | 0.1              | 50.3             | 8.4              | 299            | 2.32            | 7.1              | 2.3             | 0.9              | 4.4              | 24             | 0.3              | 0.5              | 0.1              | 85            | 0.29            | 0.075           |
| CAT 51387 | Soil                             | 2.7              | 66.0             | 7.6              | 139            | 0.2              | 60.5             | 15.6             | 397            | 3.94            | 5.6              | 1.5             | 1.0              | 5.0              | 28             | 0.3              | 0.4              | 0.2              | 136           | 0.34            | 0.104           |
| CAT 51389 | Soil                             | 0.7              | 23.1             | 7.3              | 52             | 0.1              | 21.9             | 8.2              | 207            | 2.37            | 6.8              | 0.8             | 3.0              | 3.3              | 26             | <0.1             | 0.6              | 0.1              | 67            | 0.41            | 0.068           |
| CAT 51390 | Soil                             | 1.8              | 39.0             | 7.7              | 68             | 0.3              | 24.0             | 11.4             | 566            | 2.96            | 7.2              | 0.8             | 1.7              | 3.0              | 34             | 0.3              | 0.7              | 0.1              | 77            | 0.37            | 0.066           |
| CAT 51392 | Soil                             | 2.2              | 46.7             | 7.8              | 91             | 0.2              | 29.2             | 11.3             | 316            | 3.28            | 7.9              | 1.0             | 1.0              | 3.5              | 29             | 0.3              | 0.7              | 0.1              | 87            | 0.30            | 0.082           |
| CAT 51405 | Soil                             | 1.6              | 42.4             | 6.0              | 103            | 0.1              | 55.0             | 15.0             | 545            | 3.45            | 5.4              | 0.8             | 0.8              | 3.5              | 35             | 0.2              | 0.4              | 0.1              | 98            | 0.49            | 0.126           |
| CAT 51410 | Soil                             | 1.1              | 31.1             | 8.0              | 65             | 0.1              | 33.1             | 12.9             | 692            | 2.90            | 8.8              | 0.6             | 1.6              | 4.3              | 29             | 0.1              | 0.7              | 0.2              | 69            | 0.49            | 0.047           |
| CAT 51411 | Soil                             | 2.0              | 25.0             | 8.2              | 65             | 0.2              | 28.1             | 13.9             | 445            | 2.79            | 7.5              | 0.6             | 5.6              | 4.3              | 29             | 0.2              | 0.5              | 0.2              | 75            | 0.46            | 0.094           |
| CAT 51417 | Soil                             | 2.8              | 26.1             | 9.5              | 58             | 0.3              | 24.0             | 10.4             | 325            | 2.72            | 6.2              | 1.0             | 0.8              | 3.3              | 38             | 0.2              | 0.4              | 0.2              | 84            | 0.35            | 0.093           |
| CAT 51435 | Soil                             | 0.7              | 34.5             | 14.8             | 79             | <0.1             | 34.3             | 14.8             | 458            | 3.88            | 4.6              | 1.1             | 2.2              | 11.0             | 21             | <0.1             | 0.3              | 0.1              | 76            | 0.29            | 0.045           |
| CAT 51445 | Soil                             | 0.9              | 34.6             | 8.7              | 62             | <0.1             | 34.9             | 13.4             | 751            | 3.32            | 7.1              | 0.8             | 4.0              | 6.0              | 35             | <0.1             | 0.6              | 0.1              | 68            | 0.70            | 0.036           |
| CAT 51456 | Soil                             | 3.1              | 61.3             | 6.8              | 95             | 0.3              | 43.2             | 12.4             | 612            | 2.88            | 8.9              | 1.4             | 2.2              | 3.7              | 30             | 0.6              | 1.5              | 0.1              | 73            | 0.41            | 0.080           |
| CAT 51459 | Soil                             | 1.7              | 88.0             | 8.9              | 143            | <0.1             | 89.7             | 17.9             | 366            | 3.92            | 4.9              | 2.0             | 2.0              | 7.8              | 28             | 0.3              | 0.6              | 0.2              | 117           | 0.42            | 0.107           |
| CAT 52460 | Soil                             | 1.5              | 42.6             | 7.7              | 66             | 0.2              | 32.2             | 9.9              | 327            | 3.04            | 8.7              | 1.0             | 0.9              | 3.4              | 29             | 0.2              | 1.2              | 0.1              | 72            | 0.33            | 0.047           |
| CAT 52461 | Soil                             | 1.5              | 77.7             | 7.6              | 108            | 0.2              | 52.7             | 13.2             | 504            | 3.34            | 10.4             | 1.3             | 4.0              | 4.9              | 29             | 0.2              | 1.5              | 0.1              | 91            | 0.39            | 0.064           |
| CAT 52462 | Soil                             | 1.3              | 78.7             | 5.5              | 119            | <0.1             | 49.2             | 12.8             | 437            | 3.26            | 6.5              | 1.5             | <0.5             | 4.4              | 18             | 0.3              | 1.4              | 0.1              | 136           | 0.32            | 0.076           |
| CAT 52463 | Soil                             | 1.4              | 61.9             | 5.2              | 78             | <0.1             | 62.0             | 13.1             | 368            | 3.32            | 17.4             | 1.9             | 3.1              | 4.5              | 28             | 0.2              | 5.1              | 0.1              | 74            | 0.47            | 0.089           |
| CAT 52465 | Soil                             | 3.0              | 97.7             | 5.7              | 120            | <0.1             | 75.4             | 13.3             | 546            | 3.26            | 10.5             | 2.1             | 3.0              | 4.6              | 27             | 0.3              | 2.3              | 0.1              | 114           | 0.32            | 0.122           |
| CAT 52467 | Soil                             | 1.7              | 58.1             | 5.7              | 100            | 0.1              | 38.3             | 9.0              | 254            | 2.68            | 7.8              | 1.4             | 2.5              | 7.0              | 27             | 0.1              | 0.5              | 0.1              | 89            | 0.30            | 0.060           |
| CAT 52468 | Soil                             | 3.6              | 39.0             | 12.3             | 68             | 0.1              | 22.9             | 5.2              | 211            | 3.61            | 130.8            | 2.0             | 2.2              | 5.2              | 32             | 0.2              | 11.6             | 0.2              | 52            | 0.14            | 0.079           |
| CAT 52469 | Soil                             | 1.3              | 53.8             | 7.0              | 91             | 0.2              | 71.8             | 13.3             | 410            | 3.04            | 8.2              | 2.0             | 0.8              | 4.8              | 91             | 0.2              | 0.4              | 0.1              | 59            | 2.45            | 0.117           |
| CAT 52470 | Soil                             | 2.6              | 85.3             | 8.7              | 68             | 0.1              | 35.2             | 10.2             | 457            | 3.08            | 10.7             | 2.1             | 4.5              | 5.8              | 31             | <0.1             | 1.0              | 0.2              | 86            | 0.25            | 0.049           |
| CAT 52472 | Soil                             | 2.1              | 67.1             | 5.8              | 109            | 0.1              | 56.4             | 11.6             | 417            | 3.42            | 5.5              | 1.9             | 1.7              | 4.1              | 31             | 0.2              | 0.5              | <0.1             | 108           | 0.39            | 0.104           |
| CAT 52473 | Soil                             | 2.8              | 62.8             | 6.8              | 132            | 0.2              | 67.7             | 15.0             | 573            | 3.87            | 21.7             | 1.1             | <0.5             | 4.0              | 27             | 0.3              | 1.4              | 0.1              | 113           | 0.41            | 0.132           |
| CAT 52474 | Soil                             | 1.3              | 42.3             | 5.9              | 70             | 0.1              | 31.4             | 9.6              | 315            | 2.45            | 33.3             | 1.6             | 3.3              | 3.5              | 28             | 0.2              | 1.4              | 0.1              | 83            | 0.38            | 0.068           |
| CAT 52475 | Soil                             | 1.9              | 55.9             | 7.2              | 120            | <0.1             | 53.0             | 12.8             | 468            | 3.57            | 12.0             | 1.7             | <0.5             | 6.3              | 29             | 0.3              | 0.6              | 0.2              | 109           | 0.41            | 0.143           |
| CAT 52476 | Soil                             | 1.8              | 35.3             | 6.6              | 86             | 0.1              | 34.1             | 8.6              | 238            | 2.65            | 13.7             | 1.0             | 1.4              | 3.4              | 22             | 0.2              | 0.8              | 0.1              | 82            | 0.31            | 0.083           |
| CAT 52477 | Soil                             | 1.8              | 44.9             | 6.1              | 95             | 0.1              | 37.4             | 11.9             | 495            | 2.90            | 6.8              | 1.2             | 0.8              | 3.3              | 27             | 0.3              | 0.7              | 0.1              | 75            | 0.38            | 0.098           |



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**Project:** CAT  
**Report Date:** September 15, 2009

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## CERTIFICATE OF ANALYSIS

VAN09003942.1

|           | Method<br>Analyte<br>Unit<br>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 51339 | Soil                             | 14    | 64    | 0.73  | 618   | 0.103 | <1    | 1.77  | 0.021 | 0.11  | 0.2   | 0.03  | 5.0   | <0.1  | <0.05 | 7     | 1.2   |
| CAT 51340 | Soil                             | 14    | 73    | 1.18  | 835   | 0.168 | 1     | 2.00  | 0.031 | 0.38  | <0.1  | 0.01  | 6.3   | 0.3   | 0.05  | 8     | 2.5   |
| CAT 51341 | Soil                             | 17    | 43    | 0.52  | 169   | 0.066 | <1    | 1.23  | 0.013 | 0.12  | 0.3   | <0.01 | 4.1   | <0.1  | <0.05 | 5     | 1.7   |
| CAT 51387 | Soil                             | 21    | 81    | 1.02  | 475   | 0.137 | <1    | 2.45  | 0.014 | 0.45  | 0.1   | <0.01 | 5.0   | 0.3   | <0.05 | 8     | 1.1   |
| CAT 51389 | Soil                             | 13    | 36    | 0.53  | 307   | 0.075 | <1    | 1.42  | 0.019 | 0.05  | 0.2   | 0.02  | 3.2   | <0.1  | <0.05 | 4     | <0.5  |
| CAT 51390 | Soil                             | 11    | 44    | 0.60  | 375   | 0.090 | <1    | 1.64  | 0.019 | 0.18  | 0.2   | <0.01 | 3.2   | 0.1   | <0.05 | 5     | 1.2   |
| CAT 51392 | Soil                             | 13    | 58    | 0.74  | 321   | 0.098 | 2     | 1.87  | 0.014 | 0.17  | 0.1   | <0.01 | 3.6   | 0.1   | <0.05 | 6     | 0.9   |
| CAT 51405 | Soil                             | 14    | 78    | 1.02  | 445   | 0.147 | 1     | 2.04  | 0.022 | 0.48  | 0.1   | 0.03  | 3.8   | 0.2   | <0.05 | 6     | 0.9   |
| CAT 51410 | Soil                             | 15    | 38    | 0.62  | 296   | 0.094 | 1     | 1.57  | 0.026 | 0.15  | 0.2   | 0.02  | 4.4   | <0.1  | <0.05 | 5     | 0.5   |
| CAT 51411 | Soil                             | 14    | 44    | 0.57  | 246   | 0.106 | 3     | 1.59  | 0.022 | 0.30  | 0.2   | 0.01  | 4.4   | 0.1   | <0.05 | 4     | 1.0   |
| CAT 51417 | Soil                             | 13    | 46    | 0.54  | 330   | 0.090 | 1     | 1.59  | 0.018 | 0.14  | 0.3   | 0.01  | 3.7   | 0.2   | <0.05 | 5     | 1.2   |
| CAT 51435 | Soil                             | 43    | 60    | 0.92  | 285   | 0.218 | <1    | 2.34  | 0.017 | 0.49  | 0.1   | 0.01  | 5.1   | 0.4   | <0.05 | 8     | <0.5  |
| CAT 51445 | Soil                             | 24    | 43    | 0.77  | 273   | 0.148 | 1     | 1.88  | 0.029 | 0.28  | 0.2   | 0.04  | 5.1   | 0.2   | <0.05 | 6     | 0.7   |
| CAT 51456 | Soil                             | 13    | 44    | 0.53  | 354   | 0.083 | <1    | 1.30  | 0.019 | 0.15  | 0.1   | 0.02  | 4.5   | 0.1   | <0.05 | 4     | 1.4   |
| CAT 51459 | Soil                             | 29    | 101   | 0.97  | 451   | 0.141 | <1    | 1.98  | 0.016 | 0.71  | <0.1  | 0.02  | 7.0   | 0.3   | <0.05 | 7     | 1.2   |
| CAT 52460 | Soil                             | 12    | 43    | 0.54  | 331   | 0.095 | <1    | 1.54  | 0.023 | 0.14  | 0.1   | 0.01  | 3.9   | 0.1   | <0.05 | 5     | 1.2   |
| CAT 52461 | Soil                             | 19    | 56    | 0.60  | 399   | 0.082 | <1    | 1.51  | 0.022 | 0.22  | <0.1  | 0.03  | 7.7   | 0.1   | <0.05 | 5     | 1.5   |
| CAT 52462 | Soil                             | 16    | 106   | 1.14  | 685   | 0.170 | <1    | 2.09  | 0.012 | 0.73  | <0.1  | 0.01  | 6.1   | 0.3   | <0.05 | 8     | 0.6   |
| CAT 52463 | Soil                             | 17    | 62    | 0.68  | 372   | 0.064 | <1    | 1.47  | 0.020 | 0.11  | 0.1   | 0.02  | 7.7   | 0.1   | <0.05 | 5     | 0.6   |
| CAT 52465 | Soil                             | 19    | 81    | 0.91  | 564   | 0.110 | <1    | 1.64  | 0.009 | 0.56  | 0.1   | 0.01  | 5.6   | 0.3   | <0.05 | 6     | 1.8   |
| CAT 52467 | Soil                             | 23    | 56    | 0.75  | 387   | 0.116 | <1    | 1.55  | 0.018 | 0.40  | 0.1   | 0.01  | 5.2   | 0.3   | <0.05 | 5     | 1.5   |
| CAT 52468 | Soil                             | 14    | 25    | 0.17  | 304   | 0.015 | 2     | 0.67  | 0.006 | 0.12  | 0.1   | 0.03  | 4.5   | 0.1   | 0.14  | 2     | 2.4   |
| CAT 52469 | Soil                             | 14    | 65    | 1.69  | 232   | 0.094 | 2     | 1.59  | 0.010 | 0.41  | 0.5   | 0.04  | 5.3   | 0.4   | <0.05 | 8     | 0.5   |
| CAT 52470 | Soil                             | 20    | 53    | 0.81  | 474   | 0.106 | 1     | 1.51  | 0.012 | 0.39  | 0.1   | 0.04  | 5.8   | 0.2   | 0.13  | 5     | 1.5   |
| CAT 52472 | Soil                             | 16    | 87    | 1.08  | 605   | 0.135 | <1    | 1.88  | 0.011 | 0.60  | 0.1   | 0.02  | 5.1   | 0.2   | 0.06  | 7     | 1.1   |
| CAT 52473 | Soil                             | 15    | 84    | 1.15  | 501   | 0.126 | 1     | 1.82  | 0.010 | 0.72  | 0.1   | 0.02  | 5.0   | 0.3   | <0.05 | 7     | 0.9   |
| CAT 52474 | Soil                             | 13    | 49    | 0.65  | 527   | 0.078 | <1    | 1.35  | 0.011 | 0.17  | 0.1   | 0.02  | 3.7   | 0.1   | <0.05 | 5     | 0.6   |
| CAT 52475 | Soil                             | 21    | 82    | 1.08  | 620   | 0.136 | 1     | 1.79  | 0.010 | 0.74  | 0.1   | 0.02  | 5.2   | 0.3   | <0.05 | 6     | 0.7   |
| CAT 52476 | Soil                             | 12    | 50    | 0.62  | 404   | 0.088 | <1    | 1.34  | 0.009 | 0.24  | 0.1   | 0.02  | 3.3   | 0.1   | <0.05 | 6     | 0.6   |
| CAT 52477 | Soil                             | 12    | 49    | 0.54  | 487   | 0.078 | 1     | 1.17  | 0.009 | 0.24  | 0.1   | 0.03  | 3.9   | 0.1   | <0.05 | 4     | 0.6   |



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Project: CAT  
Report Date: September 15, 2009

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## CERTIFICATE OF ANALYSIS

VAN09003942.1

|           | Method<br>Analyte | Unit<br>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<br>0.1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>1 | %<br>0.01 | ppm<br>0.5 | ppm<br>0.1 | ppb<br>0.5 | ppm<br>0.1 | ppm<br>1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>2 | %<br>0.01 |
| CAT 52478 | Soil              |             | 1.8        | 46.6       | 5.2        | 76       | 0.3        | 32.5       | 9.9        | 433      | 2.42      | 5.0        | 1.4        | 1.2        | 3.4        | 28       | 0.2        | 0.4        | <0.1       | 76       | 0.40      |
| CAT 52479 | Soil              |             | 1.1        | 47.6       | 7.9        | 94       | 0.3        | 43.2       | 11.4       | 599      | 2.80      | 18.0       | 1.0        | 2.7        | 2.5        | 48       | 0.5        | 1.4        | 0.2        | 57       | 0.77      |
| CAT 52501 | Soil              |             | 1.5        | 27.6       | 16.4       | 55       | <0.1       | 21.3       | 12.0       | 494      | 2.27      | 4.2        | 2.3        | 1.9        | 9.5        | 21       | 0.1        | 0.2        | 0.3        | 38       | 0.16      |
| CAT 52503 | Soil              |             | 2.7        | 36.0       | 6.4        | 85       | <0.1       | 35.0       | 11.4       | 347      | 2.80      | 6.1        | 1.5        | 1.3        | 4.2        | 20       | 0.3        | 0.2        | 0.2        | 68       | 0.29      |
| CAT 52505 | Soil              |             | 2.3        | 42.1       | 7.3        | 86       | <0.1       | 28.2       | 9.3        | 342      | 2.66      | 8.1        | 2.8        | 2.1        | 7.3        | 29       | 0.2        | 0.7        | 0.3        | 64       | 0.36      |
| CAT 52506 | Soil              |             | 2.8        | 47.9       | 9.9        | 104      | 0.1        | 40.6       | 14.2       | 431      | 2.87      | 18.7       | 2.8        | 4.0        | 6.5        | 27       | 0.4        | 1.6        | 0.3        | 58       | 0.33      |
| CAT 52509 | Soil              |             | 2.4        | 56.2       | 8.9        | 144      | 0.1        | 57.1       | 11.8       | 279      | 3.34      | 9.6        | 1.7        | 3.4        | 5.8        | 29       | 0.3        | 1.8        | 0.1        | 95       | 0.34      |
| CAT 52510 | Soil              |             | 2.8        | 81.6       | 8.0        | 157      | 0.2        | 50.8       | 12.9       | 408      | 3.74      | 6.9        | 2.4        | 2.3        | 5.6        | 31       | 0.5        | 1.5        | 0.1        | 142      | 0.36      |
| CAT 52512 | Soil              |             | 4.0        | 86.8       | 11.9       | 172      | 0.2        | 80.4       | 23.2       | 557      | 4.63      | 32.7       | 1.5        | 2.5        | 4.8        | 34       | 0.5        | 6.4        | 0.2        | 90       | 0.28      |
| CAT 52514 | Soil              |             | 3.2        | 57.1       | 7.2        | 104      | 0.1        | 27.9       | 8.2        | 271      | 3.19      | 7.8        | 1.6        | 5.1        | 6.4        | 34       | 0.2        | 1.3        | 0.2        | 98       | 0.23      |
| CAT 52516 | Soil              |             | 2.1        | 48.8       | 6.3        | 64       | 0.1        | 20.1       | 8.3        | 223      | 2.65      | 6.6        | 1.1        | 3.6        | 3.8        | 26       | <0.1       | 0.7        | 0.1        | 74       | 0.20      |
| CAT 52518 | Soil              |             | 4.3        | 82.6       | 8.1        | 122      | 0.1        | 25.0       | 10.0       | 426      | 3.23      | 10.9       | 2.2        | 2.8        | 4.3        | 33       | 0.2        | 0.7        | 0.2        | 139      | 0.22      |
| CAT 52519 | Soil              |             | 2.1        | 88.2       | 5.1        | 155      | 0.1        | 94.6       | 30.8       | 1179     | 5.75      | 6.5        | 1.6        | 1.7        | 5.0        | 29       | 0.2        | 0.3        | <0.1       | 173      | 0.48      |
| CAT 52520 | Soil              |             | 2.1        | 73.8       | 6.7        | 102      | <0.1       | 30.4       | 12.9       | 482      | 3.59      | 6.1        | 2.5        | 3.1        | 5.0        | 31       | 0.2        | 0.7        | 0.1        | 96       | 0.33      |
| CAT 52524 | Soil              |             | 1.6        | 66.0       | 4.4        | 103      | <0.1       | 54.6       | 19.0       | 542      | 3.83      | 5.2        | 1.2        | 2.2        | 3.9        | 27       | 0.1        | 0.5        | <0.1       | 114      | 0.34      |
| CAT 52525 | Soil              |             | 1.3        | 74.3       | 4.1        | 100      | <0.1       | 63.4       | 17.4       | 447      | 3.58      | 3.5        | 1.3        | 2.8        | 3.5        | 33       | 0.2        | 0.3        | <0.1       | 107      | 0.37      |
| CAT 52527 | Soil              |             | 2.9        | 92.1       | 6.8        | 146      | 0.2        | 113.6      | 23.4       | 903      | 4.86      | 18.0       | 1.2        | 1.6        | 5.2        | 45       | 0.6        | 2.0        | 0.2        | 126      | 0.75      |
| CAT 52531 | Soil              |             | 1.2        | 50.2       | 6.0        | 74       | <0.1       | 42.9       | 12.3       | 495      | 2.98      | 12.8       | 0.7        | 8.9        | 4.5        | 41       | 0.2        | 0.7        | 0.1        | 87       | 0.71      |
| CAT 52584 | Soil              |             | 0.4        | 156.1      | 5.0        | 48       | <0.1       | 22.6       | 14.0       | 265      | 2.37      | 2.5        | 0.5        | 4.0        | 1.4        | 33       | <0.1       | 1.0        | <0.1       | 72       | 0.52      |
| CAT 52585 | Soil              |             | 0.3        | 113.1      | 1.6        | 40       | <0.1       | 26.5       | 14.5       | 249      | 2.45      | 2.0        | 0.3        | 0.7        | 1.2        | 16       | <0.1       | 0.2        | <0.1       | 83       | 0.51      |
| CAT 52586 | Soil              |             | 0.4        | 69.9       | 3.5        | 58       | <0.1       | 17.2       | 15.6       | 345      | 2.81      | 3.8        | 0.6        | 0.7        | 2.0        | 31       | <0.1       | 0.3        | <0.1       | 85       | 0.59      |
| CAT 52587 | Soil              |             | 0.1        | 25.3       | 0.6        | 16       | <0.1       | 6.1        | 5.0        | 87       | 0.74      | <0.5       | 0.2        | 0.7        | 1.1        | 8        | <0.1       | <0.1       | <0.1       | 25       | 0.32      |
| CAT 52588 | Soil              |             | 0.4        | 41.1       | 5.6        | 65       | <0.1       | 20.8       | 13.6       | 483      | 2.83      | 6.9        | 0.6        | 3.5        | 2.9        | 29       | <0.1       | 0.5        | <0.1       | 69       | 0.56      |
| CAT 52595 | Soil              |             | 0.4        | 42.5       | 6.4        | 55       | <0.1       | 25.8       | 13.0       | 526      | 2.77      | 7.6        | 0.9        | 1.4        | 3.8        | 35       | <0.1       | 0.4        | 0.1        | 65       | 0.73      |
| CAT 52597 | Soil              |             | 0.5        | 209.4      | 3.6        | 92       | 0.2        | 37.6       | 30.0       | 1607     | 4.75      | 4.9        | 0.4        | 6.2        | 1.9        | 22       | 0.3        | 4.0        | <0.1       | 115      | 0.64      |
| CAT 52598 | Soil              |             | 0.3        | 79.7       | 4.4        | 45       | <0.1       | 47.0       | 14.4       | 328      | 2.43      | 4.2        | 0.5        | 1.7        | 2.1        | 24       | <0.1       | 1.2        | <0.1       | 74       | 0.35      |
| CAT 52599 | Soil              |             | 0.5        | 58.0       | 6.5        | 86       | 0.1        | 16.2       | 8.3        | 587      | 3.23      | 3.3        | 1.5        | 2.1        | 7.8        | 42       | 0.1        | 0.5        | <0.1       | 39       | 0.36      |
| CAT 52601 | Soil              |             | 0.5        | 89.3       | 3.6        | 51       | <0.1       | 21.6       | 12.2       | 242      | 2.36      | 6.1        | 0.3        | 2.6        | 1.6        | 37       | <0.1       | 0.5        | <0.1       | 64       | 0.39      |
| CAT 52602 | Soil              |             | 0.5        | 125.2      | 6.0        | 48       | 0.1        | 24.8       | 11.0       | 270      | 2.26      | 7.0        | 1.3        | 4.8        | 3.4        | 30       | <0.1       | 0.6        | 0.1        | 55       | 0.35      |
| CAT 52604 | Soil              |             | 0.5        | 83.4       | 6.1        | 42       | <0.1       | 24.1       | 13.0       | 249      | 2.19      | 7.0        | 1.3        | 6.7        | 3.3        | 39       | <0.1       | 0.5        | 0.1        | 53       | 0.40      |



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**Project:** CAT  
**Report Date:** September 15, 2009

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## CERTIFICATE OF ANALYSIS

VAN09003942.1

|           | Method<br>Analyte<br>Unit<br>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 52478 | Soil                             | 12    | 46    | 0.54  | 528   | 0.081 | <1    | 1.07  | 0.011 | 0.24  | 0.2   | 0.02  | 3.5   | <0.1  | <0.05 | 4     | 0.6   |
| CAT 52479 | Soil                             | 13    | 30    | 0.44  | 537   | 0.042 | 2     | 1.09  | 0.020 | 0.13  | 0.3   | 0.04  | 4.2   | <0.1  | <0.05 | 4     | 0.9   |
| CAT 52501 | Soil                             | 24    | 20    | 0.34  | 175   | 0.061 | <1    | 1.16  | 0.008 | 0.22  | 0.1   | 0.01  | 2.7   | 0.2   | <0.05 | 5     | 0.9   |
| CAT 52503 | Soil                             | 15    | 32    | 0.62  | 193   | 0.103 | <1    | 1.51  | 0.011 | 0.28  | 0.2   | <0.01 | 2.6   | 0.2   | <0.05 | 6     | 0.5   |
| CAT 52505 | Soil                             | 19    | 35    | 0.61  | 328   | 0.117 | <1    | 1.35  | 0.010 | 0.42  | 0.2   | 0.01  | 3.2   | 0.3   | <0.05 | 5     | 1.2   |
| CAT 52506 | Soil                             | 20    | 30    | 0.47  | 356   | 0.074 | 1     | 1.38  | 0.010 | 0.28  | 0.2   | 0.01  | 3.2   | 0.2   | <0.05 | 5     | 0.7   |
| CAT 52509 | Soil                             | 20    | 61    | 0.71  | 550   | 0.087 | <1    | 1.52  | 0.009 | 0.28  | 0.1   | 0.02  | 4.4   | 0.2   | <0.05 | 6     | 1.3   |
| CAT 52510 | Soil                             | 21    | 87    | 1.13  | 933   | 0.159 | <1    | 1.92  | 0.010 | 0.80  | 0.1   | <0.01 | 5.5   | 0.3   | <0.05 | 8     | 1.9   |
| CAT 52512 | Soil                             | 16    | 60    | 0.62  | 466   | 0.072 | 2     | 1.49  | 0.008 | 0.33  | 0.1   | 0.02  | 4.6   | 0.2   | 0.08  | 5     | 3.2   |
| CAT 52514 | Soil                             | 19    | 55    | 0.68  | 504   | 0.107 | <1    | 1.45  | 0.012 | 0.41  | 0.1   | 0.01  | 3.7   | 0.3   | 0.09  | 5     | 1.5   |
| CAT 52516 | Soil                             | 13    | 43    | 0.57  | 318   | 0.104 | <1    | 1.36  | 0.012 | 0.26  | 0.1   | <0.01 | 3.0   | 0.2   | 0.11  | 5     | 1.1   |
| CAT 52518 | Soil                             | 19    | 82    | 0.92  | 567   | 0.155 | <1    | 1.60  | 0.013 | 0.60  | 0.1   | 0.01  | 4.2   | 0.4   | 0.25  | 7     | 1.5   |
| CAT 52519 | Soil                             | 24    | 114   | 2.21  | 1626  | 0.335 | <1    | 3.18  | 0.011 | 1.89  | 0.2   | 0.01  | 6.6   | 0.5   | <0.05 | 12    | 0.9   |
| CAT 52520 | Soil                             | 19    | 71    | 1.03  | 498   | 0.166 | 1     | 1.81  | 0.011 | 0.66  | <0.1  | 0.01  | 7.1   | 0.3   | <0.05 | 7     | 0.8   |
| CAT 52524 | Soil                             | 13    | 79    | 1.28  | 542   | 0.212 | 1     | 2.12  | 0.012 | 0.90  | 0.2   | <0.01 | 5.4   | 0.3   | <0.05 | 8     | 0.7   |
| CAT 52525 | Soil                             | 12    | 104   | 1.27  | 469   | 0.200 | <1    | 1.90  | 0.011 | 0.77  | 0.1   | 0.02  | 4.1   | 0.3   | 0.05  | 7     | 1.4   |
| CAT 52527 | Soil                             | 16    | 110   | 1.13  | 784   | 0.138 | 2     | 1.97  | 0.011 | 0.77  | 0.1   | 0.02  | 7.8   | 0.3   | <0.05 | 8     | 1.2   |
| CAT 52531 | Soil                             | 17    | 50    | 0.68  | 578   | 0.108 | 2     | 1.40  | 0.020 | 0.25  | 0.2   | 0.03  | 4.0   | 0.1   | <0.05 | 5     | 1.0   |
| CAT 52584 | Soil                             | 5     | 32    | 1.05  | 212   | 0.120 | 1     | 1.60  | 0.020 | 0.09  | 0.1   | 0.02  | 4.2   | <0.1  | <0.05 | 5     | <0.5  |
| CAT 52585 | Soil                             | 6     | 53    | 1.28  | 319   | 0.135 | <1    | 1.47  | 0.019 | 0.33  | <0.1  | 0.02  | 3.1   | <0.1  | <0.05 | 5     | <0.5  |
| CAT 52586 | Soil                             | 7     | 48    | 1.57  | 229   | 0.114 | 1     | 1.97  | 0.023 | 0.05  | <0.1  | <0.01 | 5.6   | <0.1  | <0.05 | 6     | <0.5  |
| CAT 52587 | Soil                             | 3     | 29    | 0.44  | 74    | 0.051 | <1    | 0.58  | 0.012 | 0.08  | <0.1  | 0.02  | 1.4   | <0.1  | <0.05 | 2     | <0.5  |
| CAT 52588 | Soil                             | 11    | 32    | 0.94  | 225   | 0.122 | <1    | 1.72  | 0.021 | 0.14  | 0.1   | 0.02  | 5.6   | 0.1   | <0.05 | 6     | 0.7   |
| CAT 52595 | Soil                             | 14    | 29    | 0.89  | 339   | 0.102 | 2     | 1.44  | 0.019 | 0.20  | 0.2   | 0.08  | 4.1   | 0.1   | <0.05 | 5     | 0.5   |
| CAT 52597 | Soil                             | 9     | 49    | 2.08  | 481   | 0.186 | 2     | 2.53  | 0.012 | 0.67  | 0.2   | 0.27  | 12.6  | 0.3   | <0.05 | 9     | <0.5  |
| CAT 52598 | Soil                             | 8     | 112   | 1.19  | 480   | 0.154 | <1    | 1.66  | 0.014 | 0.18  | <0.1  | 0.02  | 3.3   | 0.1   | <0.05 | 5     | <0.5  |
| CAT 52599 | Soil                             | 20    | 18    | 0.83  | 668   | 0.163 | <1    | 1.54  | 0.010 | 0.41  | 0.2   | 0.03  | 5.4   | 0.3   | <0.05 | 7     | <0.5  |
| CAT 52601 | Soil                             | 5     | 26    | 0.86  | 262   | 0.094 | 2     | 1.55  | 0.018 | 0.09  | <0.1  | 0.01  | 2.9   | <0.1  | <0.05 | 4     | <0.5  |
| CAT 52602 | Soil                             | 11    | 30    | 0.64  | 424   | 0.068 | 2     | 1.45  | 0.016 | 0.08  | 0.2   | 0.03  | 3.7   | <0.1  | <0.05 | 3     | <0.5  |
| CAT 52604 | Soil                             | 12    | 38    | 0.50  | 390   | 0.058 | 2     | 1.42  | 0.018 | 0.04  | 0.2   | 0.04  | 4.2   | <0.1  | <0.05 | 4     | <0.5  |



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Report Date:

September 15, 2009

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Part 1

## CERTIFICATE OF ANALYSIS

VAN09003942.1

|           | Method<br>Analyte<br>Unit<br>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<br>0.1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>1 | %<br>0.01 | ppm<br>0.5 | ppm<br>0.1 | ppb<br>0.5 | ppm<br>0.1 | ppm<br>1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>2 | %<br>0.01 | %<br>0.001 |
| CAT 52719 | Soil                             | 0.7        | 48.2       | 8.7        | 56       | <0.1       | 34.7       | 12.6       | 313      | 3.23      | 7.7        | 0.9        | 1.7        | 5.8        | 27       | <0.1       | 0.5        | 0.1        | 71       | 0.33      | 0.023      |
| CAT 52720 | Soil                             | 1.1        | 20.4       | 8.2        | 103      | <0.1       | 42.8       | 19.8       | 929      | 3.99      | 6.2        | 0.4        | 1.0        | 4.8        | 20       | 0.1        | 0.5        | 0.1        | 69       | 0.23      | 0.037      |
| CAT 52721 | Soil                             | 1.6        | 54.7       | 8.9        | 83       | <0.1       | 35.6       | 12.9       | 645      | 3.58      | 7.3        | 0.8        | 0.7        | 4.9        | 29       | <0.1       | 0.5        | 0.1        | 87       | 0.29      | 0.076      |
| CAT 52722 | Soil                             | 1.3        | 21.9       | 7.7        | 64       | <0.1       | 26.3       | 11.5       | 516      | 2.91      | 8.3        | 0.5        | 2.6        | 3.4        | 19       | 0.2        | 0.5        | 0.1        | 61       | 0.23      | 0.033      |
| CAT 52723 | Soil                             | 1.1        | 37.8       | 8.8        | 76       | <0.1       | 35.9       | 16.4       | 603      | 3.82      | 7.2        | 0.7        | 2.0        | 5.9        | 22       | 0.1        | 0.5        | 0.1        | 107      | 0.34      | 0.054      |
| CAT 52724 | Soil                             | 1.0        | 35.4       | 10.9       | 78       | <0.1       | 33.0       | 16.9       | 519      | 3.86      | 13.1       | 1.0        | <0.5       | 10.1       | 20       | 0.1        | 0.7        | 0.1        | 50       | 0.30      | 0.023      |
| CAT 52728 | Soil                             | 0.8        | 35.7       | 8.7        | 75       | <0.1       | 38.1       | 15.8       | 377      | 3.59      | 5.8        | 1.1        | 1.5        | 12.6       | 22       | 0.1        | 0.4        | 0.1        | 53       | 0.31      | 0.030      |
| CAT 52729 | Soil                             | 0.8        | 41.9       | 10.3       | 70       | <0.1       | 36.8       | 13.3       | 336      | 3.46      | 9.4        | 0.9        | 2.6        | 11.5       | 23       | <0.1       | 0.6        | 0.1        | 64       | 0.27      | 0.026      |
| CAT 52730 | Soil                             | 0.6        | 34.3       | 9.2        | 61       | <0.1       | 30.5       | 12.7       | 365      | 3.04      | 8.3        | 0.8        | 2.6        | 8.5        | 27       | 0.2        | 0.5        | 0.1        | 58       | 0.43      | 0.028      |
| CAT 52732 | Soil                             | 0.7        | 31.4       | 12.1       | 90       | <0.1       | 37.4       | 15.8       | 437      | 4.04      | 8.0        | 1.0        | 3.4        | 18.1       | 22       | <0.1       | 0.5        | 0.1        | 57       | 0.32      | 0.032      |
| CAT 52737 | Soil                             | 0.6        | 33.6       | 9.7        | 74       | <0.1       | 32.9       | 15.1       | 577      | 3.55      | 8.5        | 1.2        | 2.5        | 11.5       | 33       | <0.1       | 0.4        | <0.1       | 50       | 0.46      | 0.052      |
| CAT 52745 | Soil                             | 2.2        | 41.8       | 13.6       | 92       | 0.1        | 255.2      | 22.3       | 370      | 3.79      | 274.9      | 1.0        | 2.6        | 2.0        | 57       | 0.4        | 9.5        | 0.2        | 68       | 0.27      | 0.051      |
| CAT 52746 | Soil                             | 2.3        | 29.6       | 16.7       | 65       | 0.2        | 81.1       | 10.7       | 332      | 2.89      | 182.8      | 0.6        | 10.6       | 2.2        | 46       | 0.4        | 5.1        | 0.2        | 70       | 0.41      | 0.037      |
| CAT 52749 | Soil                             | 3.2        | 31.2       | 12.1       | 84       | 0.1        | 41.2       | 14.7       | 612      | 3.23      | 75.0       | 0.6        | 2.1        | 2.3        | 17       | 0.1        | 3.3        | 0.2        | 100      | 0.20      | 0.064      |
| CAT 52802 | Soil                             | 1.3        | 75.5       | 20.8       | 110      | 0.1        | 73.5       | 27.8       | 868      | 5.40      | 5.7        | 1.5        | 5.3        | 10.1       | 44       | 0.1        | 0.2        | 0.2        | 139      | 0.60      | 0.127      |
| CAT 52803 | Soil                             | 1.1        | 66.4       | 15.8       | 75       | 0.1        | 50.0       | 17.8       | 521      | 3.50      | 7.0        | 1.3        | 50.4       | 7.1        | 51       | 0.2        | 0.3        | 0.2        | 74       | 0.68      | 0.090      |
| CAT 52804 | Soil                             | 1.4        | 64.8       | 17.0       | 78       | 0.1        | 45.1       | 16.7       | 474      | 3.48      | 5.9        | 1.3        | 7.6        | 7.0        | 51       | 0.2        | 0.4        | 0.2        | 75       | 0.55      | 0.064      |
| CAT 52805 | Soil                             | 1.9        | 85.8       | 17.3       | 95       | <0.1       | 53.1       | 23.5       | 736      | 4.30      | 5.3        | 1.4        | 3.3        | 7.9        | 51       | 0.1        | 0.4        | 0.2        | 116      | 0.57      | 0.060      |
| CAT 52806 | Soil                             | 1.5        | 104.3      | 26.4       | 95       | 0.2        | 84.7       | 28.0       | 1085     | 4.95      | 6.1        | 1.4        | 13.0       | 8.0        | 60       | 0.1        | 0.3        | 0.3        | 126      | 0.54      | 0.083      |
| CAT 52807 | Soil                             | 1.2        | 67.4       | 14.1       | 88       | <0.1       | 82.6       | 25.2       | 675      | 4.60      | 8.4        | 1.2        | 2.8        | 9.4        | 80       | <0.1       | 0.4        | 0.1        | 103      | 0.72      | 0.103      |
| CAT 52808 | Soil                             | 0.8        | 54.6       | 16.6       | 66       | <0.1       | 66.4       | 19.7       | 669      | 3.90      | 14.3       | 0.9        | 1.6        | 7.1        | 68       | 0.1        | 0.6        | 0.2        | 86       | 0.63      | 0.076      |
| CAT 52809 | Soil                             | 1.2        | 61.4       | 14.1       | 74       | <0.1       | 61.7       | 20.0       | 791      | 4.09      | 19.5       | 0.8        | 2.6        | 6.4        | 74       | 0.1        | 0.8        | 0.2        | 93       | 0.77      | 0.082      |
| CAT 52812 | Soil                             | 1.3        | 97.4       | 8.9        | 68       | <0.1       | 190.6      | 38.3       | 631      | 4.52      | 1.5        | 0.6        | 0.7        | 6.8        | 67       | 0.1        | <0.1       | <0.1       | 121      | 0.90      | 0.194      |
| CAT 52816 | Soil                             | 1.6        | 58.8       | 13.3       | 90       | <0.1       | 51.0       | 20.2       | 645      | 4.68      | 9.8        | 1.0        | 1.1        | 11.6       | 23       | <0.1       | 0.5        | 0.1        | 68       | 0.24      | 0.053      |
| CAT 52821 | Soil                             | 2.5        | 100.7      | 17.3       | 102      | 0.2        | 97.3       | 25.4       | 807      | 5.16      | 22.4       | 1.7        | 13.5       | 8.7        | 65       | 0.2        | 2.3        | 0.2        | 75       | 1.05      | 0.146      |
| CAT 52822 | Soil                             | 1.6        | 51.6       | 14.3       | 90       | 0.2        | 84.0       | 28.7       | 1187     | 5.45      | 14.0       | 1.4        | 7.6        | 11.1       | 59       | 0.2        | 0.6        | 0.2        | 104      | 0.75      | 0.127      |
| CAT 52823 | Soil                             | 2.2        | 64.5       | 30.1       | 142      | 0.1        | 112.4      | 31.9       | 1193     | 5.52      | 9.0        | 1.6        | 4.8        | 12.8       | 41       | 0.2        | 0.4        | 0.2        | 86       | 0.70      | 0.138      |
| CAT 52826 | Soil                             | 1.3        | 41.3       | 12.3       | 96       | <0.1       | 63.2       | 17.1       | 747      | 4.28      | 9.6        | 1.7        | 12.2       | 12.6       | 118      | 0.2        | 0.4        | 0.1        | 78       | 1.18      | 0.347      |
| CAT 52828 | Soil                             | 2.7        | 56.8       | 10.0       | 86       | <0.1       | 57.0       | 18.6       | 669      | 4.41      | 17.8       | 1.6        | 1.5        | 13.5       | 48       | <0.1       | 0.8        | 0.1        | 63       | 0.53      | 0.139      |
| CAT 52830 | Soil                             | 1.5        | 50.4       | 20.7       | 105      | <0.1       | 49.4       | 16.0       | 584      | 4.06      | 7.3        | 1.5        | 3.3        | 10.5       | 48       | 0.2        | 0.4        | 0.2        | 88       | 0.73      | 0.162      |





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**Project:** CAT  
**Report Date:** September 15, 2009

**Page:** 5 of 11 **Part** 2

## CERTIFICATE OF ANALYSIS

VAN09003942.1

|           | Method<br>Analyte<br>Unit<br>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 52719 | Soil                             | 17    | 55    | 0.80  | 283   | 0.113 | 1     | 1.88  | 0.013 | 0.15  | 0.1   | 0.02  | 4.5   | 0.2   | <0.05 | 6     | <0.5  |
| CAT 52720 | Soil                             | 11    | 44    | 0.83  | 414   | 0.166 | 2     | 2.29  | 0.009 | 0.56  | 0.1   | <0.01 | 4.5   | 0.3   | <0.05 | 7     | <0.5  |
| CAT 52721 | Soil                             | 12    | 48    | 0.84  | 276   | 0.125 | 1     | 2.07  | 0.011 | 0.48  | 0.1   | 0.01  | 4.2   | 0.3   | <0.05 | 7     | <0.5  |
| CAT 52722 | Soil                             | 11    | 36    | 0.50  | 240   | 0.080 | 1     | 1.59  | 0.010 | 0.17  | 0.1   | 0.02  | 3.1   | 0.1   | <0.05 | 5     | <0.5  |
| CAT 52723 | Soil                             | 11    | 56    | 0.98  | 286   | 0.152 | 2     | 2.28  | 0.013 | 0.74  | 0.2   | 0.01  | 5.5   | 0.3   | <0.05 | 8     | <0.5  |
| CAT 52724 | Soil                             | 17    | 36    | 0.52  | 229   | 0.081 | 1     | 1.62  | 0.012 | 0.39  | 0.1   | 0.02  | 5.6   | 0.2   | <0.05 | 5     | <0.5  |
| CAT 52728 | Soil                             | 45    | 43    | 0.79  | 209   | 0.095 | 1     | 2.02  | 0.014 | 0.41  | 0.1   | 0.02  | 4.5   | 0.3   | <0.05 | 6     | <0.5  |
| CAT 52729 | Soil                             | 39    | 46    | 0.77  | 266   | 0.138 | <1    | 1.90  | 0.016 | 0.37  | 0.2   | 0.03  | 5.9   | 0.2   | <0.05 | 6     | <0.5  |
| CAT 52730 | Soil                             | 24    | 36    | 0.65  | 265   | 0.109 | 1     | 1.63  | 0.019 | 0.25  | 0.2   | 0.04  | 4.8   | 0.2   | <0.05 | 5     | <0.5  |
| CAT 52732 | Soil                             | 49    | 45    | 0.87  | 275   | 0.152 | <1    | 2.27  | 0.012 | 0.64  | 0.1   | 0.03  | 5.6   | 0.4   | <0.05 | 7     | <0.5  |
| CAT 52737 | Soil                             | 40    | 40    | 0.71  | 355   | 0.121 | 1     | 1.80  | 0.013 | 0.54  | 0.1   | 0.03  | 5.2   | 0.3   | <0.05 | 5     | <0.5  |
| CAT 52745 | Soil                             | 7     | 263   | 1.22  | 613   | 0.042 | 8     | 1.70  | 0.014 | 0.18  | <0.1  | 0.38  | 6.7   | 1.1   | 0.26  | 6     | <0.5  |
| CAT 52746 | Soil                             | 8     | 69    | 0.38  | 496   | 0.032 | 5     | 0.91  | 0.010 | 0.17  | 0.2   | 0.15  | 3.8   | 0.5   | 0.13  | 5     | <0.5  |
| CAT 52749 | Soil                             | 13    | 69    | 0.61  | 424   | 0.078 | 2     | 1.05  | 0.011 | 0.27  | 0.1   | 0.05  | 4.3   | 0.2   | <0.05 | 6     | 0.7   |
| CAT 52802 | Soil                             | 42    | 108   | 1.85  | 380   | 0.224 | <1    | 2.65  | 0.013 | 1.10  | <0.1  | 0.04  | 7.4   | 0.5   | <0.05 | 10    | <0.5  |
| CAT 52803 | Soil                             | 34    | 68    | 0.97  | 432   | 0.141 | <1    | 1.86  | 0.017 | 0.53  | 0.2   | 0.03  | 5.2   | 0.2   | <0.05 | 6     | <0.5  |
| CAT 52804 | Soil                             | 27    | 58    | 0.93  | 290   | 0.151 | 1     | 1.94  | 0.024 | 0.54  | 0.2   | 0.03  | 4.8   | 0.3   | <0.05 | 6     | <0.5  |
| CAT 52805 | Soil                             | 32    | 75    | 1.46  | 435   | 0.210 | 2     | 2.57  | 0.021 | 1.04  | 0.2   | 0.02  | 6.2   | 0.4   | <0.05 | 9     | <0.5  |
| CAT 52806 | Soil                             | 32    | 116   | 1.70  | 514   | 0.205 | <1    | 2.43  | 0.016 | 0.89  | 0.1   | 0.03  | 8.1   | 0.4   | <0.05 | 9     | 0.6   |
| CAT 52807 | Soil                             | 33    | 114   | 1.80  | 503   | 0.191 | 1     | 2.37  | 0.018 | 0.84  | <0.1  | 0.02  | 5.8   | 0.4   | <0.05 | 9     | <0.5  |
| CAT 52808 | Soil                             | 28    | 92    | 1.18  | 440   | 0.124 | 1     | 1.94  | 0.020 | 0.44  | 0.1   | 0.03  | 6.8   | 0.2   | <0.05 | 7     | <0.5  |
| CAT 52809 | Soil                             | 27    | 82    | 1.16  | 461   | 0.109 | 1     | 2.07  | 0.019 | 0.42  | 0.1   | 0.02  | 7.4   | 0.2   | <0.05 | 7     | <0.5  |
| CAT 52812 | Soil                             | 27    | 217   | 2.38  | 444   | 0.168 | <1    | 2.72  | 0.027 | 0.91  | <0.1  | <0.01 | 5.0   | 0.4   | <0.05 | 9     | <0.5  |
| CAT 52816 | Soil                             | 32    | 55    | 0.91  | 975   | 0.123 | 2     | 2.28  | 0.011 | 0.31  | <0.1  | 0.02  | 6.0   | 0.3   | <0.05 | 7     | <0.5  |
| CAT 52821 | Soil                             | 29    | 97    | 1.24  | 395   | 0.099 | 1     | 2.14  | 0.011 | 0.40  | <0.1  | 0.06  | 8.4   | 0.3   | <0.05 | 8     | 0.6   |
| CAT 52822 | Soil                             | 44    | 112   | 1.28  | 572   | 0.108 | 1     | 2.48  | 0.011 | 0.43  | 0.1   | 0.07  | 10.7  | 0.3   | <0.05 | 9     | <0.5  |
| CAT 52823 | Soil                             | 45    | 160   | 1.58  | 630   | 0.132 | 1     | 2.46  | 0.008 | 0.71  | <0.1  | 0.04  | 9.3   | 0.4   | <0.05 | 10    | <0.5  |
| CAT 52826 | Soil                             | 60    | 80    | 1.21  | 582   | 0.151 | 1     | 2.36  | 0.014 | 0.58  | 0.2   | 0.04  | 6.7   | 0.4   | <0.05 | 9     | <0.5  |
| CAT 52828 | Soil                             | 53    | 57    | 0.76  | 355   | 0.110 | 1     | 1.88  | 0.012 | 0.41  | 0.1   | 0.03  | 6.3   | 0.3   | <0.05 | 7     | <0.5  |
| CAT 52830 | Soil                             | 32    | 79    | 1.10  | 437   | 0.142 | <1    | 2.39  | 0.016 | 0.39  | 0.2   | 0.03  | 7.6   | 0.3   | <0.05 | 9     | <0.5  |



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Project: CAT  
Report Date: September 15, 2009

Page: 6 of 11 Part 1

## CERTIFICATE OF ANALYSIS

VAN09003942.1

|           | Method<br>Analyte<br>Unit<br>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<br>0.1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>1 | %<br>0.01 | ppm<br>0.5 | ppm<br>0.1 | ppb<br>0.5 | ppm<br>0.1 | ppm<br>1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>2 | %<br>0.01 | %<br>0.001 |
| CAT 52832 | Soil                             | 1.2        | 26.5       | 11.6       | 62       | <0.1       | 32.5       | 12.3       | 346      | 3.21      | 7.2        | 1.2        | 0.8        | 7.2        | 36       | <0.1       | 0.4        | 0.1        | 67       | 0.38      | 0.079      |
| CAT 52833 | Soil                             | 2.2        | 52.3       | 25.2       | 83       | 0.1        | 43.4       | 14.3       | 675      | 3.89      | 3.0        | 1.2        | 49.8       | 11.7       | 31       | 0.1        | 0.2        | 0.2        | 66       | 0.46      | 0.092      |
| CAT 52869 | Soil                             | 0.6        | 115.1      | 5.6        | 67       | <0.1       | 35.4       | 18.9       | 536      | 4.03      | 12.6       | 0.4        | 4.0        | 3.0        | 25       | <0.1       | 1.0        | 0.1        | 98       | 0.67      | 0.055      |
| CAT 52870 | Soil                             | 0.3        | 120.4      | 2.6        | 31       | 0.2        | 153.3      | 17.4       | 207      | 1.72      | 5.4        | 0.4        | 6.8        | 1.4        | 70       | <0.1       | 0.4        | <0.1       | 35       | 3.27      | 0.032      |
| CAT 52871 | Soil                             | 0.5        | 250.2      | 4.8        | 78       | 0.2        | 35.4       | 18.7       | 372      | 2.88      | 27.3       | 0.3        | 11.6       | 2.0        | 27       | 0.1        | 1.0        | <0.1       | 67       | 0.85      | 0.062      |
| CAT 52873 | Soil                             | 1.4        | 29.3       | 10.9       | 65       | 0.1        | 55.6       | 13.2       | 344      | 2.44      | 40.0       | 1.2        | 2.1        | 3.0        | 47       | 0.2        | 0.9        | 0.1        | 53       | 0.62      | 0.070      |
| CAT 52874 | Soil                             | 0.4        | 99.5       | 6.7        | 51       | <0.1       | 25.2       | 10.4       | 256      | 2.19      | 5.1        | 1.1        | 3.7        | 2.2        | 30       | 0.1        | 0.4        | 0.1        | 56       | 0.66      | 0.063      |
| CAT 52878 | Soil                             | 0.5        | 103.7      | 5.6        | 52       | <0.1       | 22.6       | 13.3       | 231      | 2.44      | 5.8        | 0.4        | 6.1        | 2.2        | 26       | <0.1       | 0.4        | <0.1       | 72       | 0.40      | 0.061      |
| CAT 52884 | Soil                             | 0.2        | 34.8       | 3.1        | 62       | <0.1       | 16.2       | 12.6       | 318      | 2.63      | 3.0        | 1.0        | 1.3        | 1.6        | 27       | <0.1       | 0.4        | <0.1       | 74       | 0.58      | 0.073      |
| CAT 52890 | Soil                             | 2.0        | 93.5       | 2.8        | 56       | <0.1       | 17.3       | 20.6       | 409      | 3.49      | 3.9        | 0.5        | 4.2        | 1.7        | 14       | <0.1       | 0.3        | <0.1       | 70       | 0.47      | 0.060      |
| CAT 52895 | Soil                             | 0.4        | 90.2       | 3.0        | 39       | <0.1       | 18.8       | 18.6       | 247      | 2.38      | 2.6        | 0.5        | 3.2        | 0.8        | 19       | 0.1        | 0.4        | <0.1       | 68       | 0.56      | 0.078      |
| CAT 52899 | Soil                             | 0.5        | 28.4       | 5.2        | 50       | <0.1       | 22.0       | 13.3       | 398      | 2.79      | 6.2        | 0.7        | 1.9        | 2.8        | 31       | <0.1       | 0.4        | <0.1       | 68       | 0.60      | 0.054      |
| CAT 52902 | Soil                             | 0.5        | 83.7       | 4.4        | 42       | <0.1       | 20.6       | 11.6       | 217      | 2.24      | 6.1        | 0.4        | 5.9        | 1.8        | 20       | <0.1       | 0.3        | <0.1       | 62       | 0.33      | 0.051      |
| CAT 52951 | Soil                             | 0.7        | 23.9       | 15.8       | 52       | <0.1       | 26.7       | 10.1       | 245      | 2.83      | 6.1        | 0.8        | 6.1        | 6.8        | 20       | <0.1       | 0.4        | 0.2        | 52       | 0.21      | 0.041      |
| CAT 52954 | Soil                             | 2.2        | 41.6       | 19.2       | 85       | <0.1       | 42.1       | 14.8       | 551      | 3.83      | 5.1        | 0.9        | 0.5        | 5.7        | 44       | <0.1       | 0.3        | 0.3        | 110      | 0.25      | 0.074      |
| CAT 52958 | Soil                             | 1.3        | 33.5       | 10.4       | 79       | 0.1        | 39.0       | 12.3       | 420      | 3.36      | 6.1        | 0.9        | 1.9        | 5.7        | 29       | 0.2        | 0.3        | 0.1        | 88       | 0.25      | 0.063      |
| CAT 52963 | Soil                             | 2.0        | 43.6       | 20.1       | 94       | 0.1        | 54.2       | 19.1       | 1225     | 3.70      | 5.9        | 2.0        | 16.1       | 6.8        | 140      | 0.2        | 0.3        | 0.2        | 58       | 2.09      | 0.139      |
| CAT 52965 | Soil                             | 1.6        | 44.5       | 13.4       | 83       | 0.1        | 44.8       | 14.7       | 724      | 3.60      | 7.1        | 2.1        | 4.5        | 7.9        | 140      | 0.2        | 0.5        | 0.2        | 67       | 1.33      | 0.123      |
| CAT 52969 | Soil                             | 1.0        | 30.0       | 10.9       | 60       | <0.1       | 37.3       | 12.8       | 405      | 3.07      | 6.3        | 1.3        | 2.3        | 6.5        | 41       | <0.1       | 0.4        | 0.1        | 66       | 0.44      | 0.050      |
| CAT 52970 | Soil                             | 1.4        | 35.0       | 11.4       | 69       | <0.1       | 38.6       | 13.1       | 403      | 3.36      | 5.1        | 1.2        | 3.2        | 7.6        | 36       | 0.1        | 0.3        | 0.2        | 75       | 0.40      | 0.058      |
| CAT 52972 | Soil                             | 1.3        | 34.2       | 11.1       | 65       | <0.1       | 32.9       | 12.2       | 347      | 3.18      | 5.4        | 1.2        | 9.3        | 7.6        | 41       | <0.1       | 0.3        | 0.2        | 72       | 0.36      | 0.061      |
| CAT 59002 | Soil                             | 1.5        | 44.8       | 10.5       | 101      | <0.1       | 49.7       | 20.7       | 478      | 4.38      | 4.2        | 1.2        | 1.3        | 11.3       | 16       | <0.1       | 0.2        | 0.1        | 80       | 0.18      | 0.048      |
| CAT 59003 | Soil                             | 1.3        | 30.8       | 12.6       | 62       | <0.1       | 29.5       | 12.3       | 339      | 3.29      | 6.5        | 0.7        | 1.5        | 6.4        | 15       | <0.1       | 0.3        | 0.2        | 71       | 0.15      | 0.042      |
| CAT 59005 | Soil                             | 1.0        | 29.6       | 24.2       | 80       | <0.1       | 26.8       | 10.9       | 358      | 3.71      | 10.0       | 1.4        | <0.5       | 23.6       | 24       | <0.1       | 0.4        | 0.2        | 29       | 0.20      | 0.059      |
| CAT 59006 | Soil                             | 1.5        | 82.2       | 13.9       | 106      | <0.1       | 49.7       | 24.1       | 670      | 4.95      | 4.1        | 1.4        | 1.2        | 18.4       | 17       | <0.1       | 0.3        | <0.1       | 48       | 0.15      | 0.030      |
| CAT 59008 | Soil                             | 1.3        | 184.8      | 11.7       | 83       | <0.1       | 58.9       | 24.3       | 1024     | 6.09      | 4.3        | 1.3        | 1.6        | 7.3        | 38       | 0.1        | 0.2        | 0.2        | 204      | 0.52      | 0.103      |
| CAT 59009 | Soil                             | 0.8        | 45.7       | 19.9       | 125      | <0.1       | 45.3       | 20.0       | 758      | 5.22      | 3.4        | 1.2        | 0.8        | 14.9       | 18       | <0.1       | 0.2        | 0.1        | 59       | 0.18      | 0.047      |
| CAT 59010 | Soil                             | 1.1        | 28.3       | 8.7        | 62       | <0.1       | 30.3       | 11.0       | 325      | 3.04      | 8.7        | 0.8        | 2.4        | 6.2        | 24       | 0.1        | 0.5        | 0.1        | 65       | 0.30      | 0.048      |
| CAT 59011 | Soil                             | 1.1        | 46.7       | 9.3        | 82       | <0.1       | 44.9       | 19.6       | 552      | 4.20      | 6.2        | 1.1        | 1.8        | 14.7       | 20       | <0.1       | 0.4        | 0.1        | 56       | 0.26      | 0.042      |
| CAT 59013 | Soil                             | 0.8        | 27.7       | 11.7       | 78       | <0.1       | 31.4       | 16.1       | 750      | 3.70      | 5.8        | 1.0        | 1.2        | 15.3       | 22       | <0.1       | 0.3        | 0.1        | 55       | 0.27      | 0.034      |



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**Project:** CAT  
**Report Date:** September 15, 2009

**Page:** 6 of 11 **Part** 2

## CERTIFICATE OF ANALYSIS

VAN09003942.1

|           | Method<br>Analyte<br>Unit<br>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 52832 | Soil                             | 32    | 47    | 0.71  | 360   | 0.105 | 1     | 1.99  | 0.009 | 0.15  | 0.2   | 0.02  | 4.7   | 0.2   | <0.05 | 7     | <0.5  |
| CAT 52833 | Soil                             | 36    | 60    | 0.89  | 611   | 0.118 | <1    | 2.10  | 0.009 | 0.57  | <0.1  | 0.02  | 6.8   | 0.4   | <0.05 | 8     | <0.5  |
| CAT 52869 | Soil                             | 12    | 36    | 0.81  | 296   | 0.043 | 2     | 1.77  | 0.014 | 0.23  | 0.1   | 0.04  | 10.8  | <0.1  | <0.05 | 5     | <0.5  |
| CAT 52870 | Soil                             | 7     | 142   | 1.47  | 290   | 0.066 | 2     | 1.28  | 0.016 | 0.03  | 0.1   | 0.05  | 2.1   | <0.1  | <0.05 | 3     | <0.5  |
| CAT 52871 | Soil                             | 8     | 41    | 0.68  | 281   | 0.045 | 1     | 1.16  | 0.018 | 0.07  | <0.1  | 0.05  | 6.6   | <0.1  | <0.05 | 4     | <0.5  |
| CAT 52873 | Soil                             | 14    | 61    | 0.76  | 349   | 0.066 | 1     | 1.23  | 0.017 | 0.09  | 0.5   | 0.05  | 3.4   | 0.1   | <0.05 | 4     | <0.5  |
| CAT 52874 | Soil                             | 11    | 55    | 0.80  | 365   | 0.085 | 2     | 1.46  | 0.017 | 0.06  | 0.2   | 0.06  | 3.7   | <0.1  | <0.05 | 4     | <0.5  |
| CAT 52878 | Soil                             | 7     | 27    | 0.78  | 290   | 0.107 | 1     | 1.61  | 0.013 | 0.08  | 0.1   | 0.02  | 2.4   | <0.1  | <0.05 | 4     | <0.5  |
| CAT 52884 | Soil                             | 6     | 45    | 1.45  | 328   | 0.140 | 1     | 1.83  | 0.022 | 0.43  | <0.1  | 0.02  | 4.0   | 0.1   | <0.05 | 5     | <0.5  |
| CAT 52890 | Soil                             | 5     | 41    | 1.61  | 250   | 0.162 | 1     | 2.10  | 0.019 | 0.54  | <0.1  | 0.01  | 4.7   | 0.2   | <0.05 | 5     | <0.5  |
| CAT 52895 | Soil                             | 3     | 35    | 0.82  | 102   | 0.073 | 2     | 1.07  | 0.020 | 0.05  | <0.1  | 0.01  | 5.0   | <0.1  | <0.05 | 3     | <0.5  |
| CAT 52899 | Soil                             | 10    | 51    | 1.22  | 319   | 0.115 | 1     | 1.87  | 0.031 | 0.20  | 0.2   | 0.03  | 4.8   | 0.1   | <0.05 | 5     | <0.5  |
| CAT 52902 | Soil                             | 7     | 29    | 0.71  | 258   | 0.089 | 1     | 1.45  | 0.016 | 0.08  | 0.1   | <0.01 | 2.4   | <0.1  | <0.05 | 4     | <0.5  |
| CAT 52951 | Soil                             | 23    | 31    | 0.60  | 487   | 0.082 | 1     | 1.76  | 0.009 | 0.16  | 0.1   | 0.02  | 3.1   | 0.1   | <0.05 | 5     | <0.5  |
| CAT 52954 | Soil                             | 22    | 82    | 1.12  | 473   | 0.171 | <1    | 2.10  | 0.014 | 0.49  | 0.1   | 0.02  | 5.1   | 0.3   | 0.07  | 9     | <0.5  |
| CAT 52958 | Soil                             | 19    | 69    | 0.97  | 334   | 0.157 | 1     | 1.90  | 0.013 | 0.37  | 0.2   | 0.02  | 4.5   | 0.2   | <0.05 | 7     | 0.7   |
| CAT 52963 | Soil                             | 36    | 69    | 0.95  | 659   | 0.077 | 3     | 1.51  | 0.013 | 0.36  | <0.1  | 0.05  | 5.5   | 0.2   | 0.10  | 5     | 1.0   |
| CAT 52965 | Soil                             | 36    | 61    | 0.90  | 701   | 0.133 | 2     | 1.72  | 0.015 | 0.47  | 0.1   | 0.04  | 5.5   | 0.3   | 0.07  | 6     | 0.7   |
| CAT 52969 | Soil                             | 27    | 51    | 0.69  | 483   | 0.111 | <1    | 1.84  | 0.017 | 0.18  | 0.1   | 0.03  | 4.8   | 0.1   | <0.05 | 6     | <0.5  |
| CAT 52970 | Soil                             | 30    | 62    | 0.84  | 497   | 0.142 | <1    | 2.00  | 0.015 | 0.30  | <0.1  | 0.03  | 4.9   | 0.2   | <0.05 | 7     | <0.5  |
| CAT 52972 | Soil                             | 25    | 54    | 0.83  | 559   | 0.143 | <1    | 2.06  | 0.013 | 0.34  | 0.1   | 0.03  | 4.6   | 0.3   | <0.05 | 7     | <0.5  |
| CAT 59002 | Soil                             | 30    | 63    | 1.05  | 238   | 0.184 | <1    | 2.45  | 0.011 | 0.72  | <0.1  | 0.02  | 5.0   | 0.4   | <0.05 | 8     | <0.5  |
| CAT 59003 | Soil                             | 16    | 50    | 0.65  | 170   | 0.107 | <1    | 1.92  | 0.010 | 0.30  | <0.1  | 0.02  | 3.6   | 0.2   | <0.05 | 7     | <0.5  |
| CAT 59005 | Soil                             | 33    | 18    | 0.21  | 155   | 0.007 | <1    | 1.02  | 0.005 | 0.16  | <0.1  | 0.02  | 5.1   | 0.1   | <0.05 | 3     | <0.5  |
| CAT 59006 | Soil                             | 31    | 44    | 0.77  | 180   | 0.085 | <1    | 2.17  | 0.008 | 0.54  | <0.1  | 0.01  | 5.6   | 0.3   | <0.05 | 6     | 0.6   |
| CAT 59008 | Soil                             | 35    | 150   | 2.08  | 641   | 0.241 | <1    | 3.61  | 0.014 | 1.02  | 0.1   | <0.01 | 6.7   | 0.6   | <0.05 | 13    | 1.4   |
| CAT 59009 | Soil                             | 28    | 51    | 0.92  | 309   | 0.176 | <1    | 2.58  | 0.009 | 1.02  | <0.1  | <0.01 | 5.8   | 0.6   | <0.05 | 8     | <0.5  |
| CAT 59010 | Soil                             | 27    | 39    | 0.70  | 155   | 0.103 | 1     | 1.66  | 0.011 | 0.24  | 0.1   | 0.02  | 3.5   | 0.2   | <0.05 | 5     | 0.5   |
| CAT 59011 | Soil                             | 34    | 45    | 0.85  | 185   | 0.129 | <1    | 2.17  | 0.010 | 0.66  | <0.1  | <0.01 | 4.9   | 0.3   | <0.05 | 6     | <0.5  |
| CAT 59013 | Soil                             | 58    | 42    | 0.71  | 339   | 0.144 | <1    | 2.13  | 0.014 | 0.64  | <0.1  | 0.01  | 4.5   | 0.3   | <0.05 | 6     | <0.5  |



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Report Date: September 15, 2009

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## CERTIFICATE OF ANALYSIS

VAN09003942.1

|           | Method<br>Analyte<br>Unit<br>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 59015 | Soil                             | 0.6   | 38.6  | 13.0  | 91    | <0.1  | 43.2  | 18.5  | 460   | 4.13  | 6.3   | 1.3   | 1.1   | 19.4  | 23    | <0.1  | 0.4   | <0.1  | 53    | 0.30  | 0.036 |
| CAT 59016 | Soil                             | 1.4   | 35.6  | 15.3  | 90    | 0.1   | 39.7  | 18.1  | 857   | 4.56  | 20.7  | 1.0   | 14.1  | 9.0   | 63    | <0.1  | 0.8   | 0.1   | 58    | 2.05  | 0.033 |
| CAT 59018 | Soil                             | 0.8   | 38.9  | 7.6   | 66    | <0.1  | 40.7  | 15.1  | 202   | 3.55  | 7.0   | 0.7   | 2.1   | 9.1   | 18    | <0.1  | 0.4   | 0.1   | 60    | 0.21  | 0.025 |
| CAT 59019 | Soil                             | 0.8   | 38.3  | 10.4  | 74    | 0.1   | 37.3  | 16.7  | 377   | 3.86  | 10.8  | 1.0   | 1.1   | 10.6  | 29    | <0.1  | 0.4   | 0.1   | 55    | 0.41  | 0.044 |
| CAT 59020 | Soil                             | 0.5   | 44.3  | 14.2  | 89    | <0.1  | 43.7  | 18.0  | 486   | 4.29  | 17.1  | 1.4   | 5.1   | 17.6  | 25    | <0.1  | 0.5   | <0.1  | 49    | 0.32  | 0.024 |
| CAT 59023 | Soil                             | 0.6   | 45.2  | 8.2   | 56    | <0.1  | 36.5  | 13.5  | 431   | 2.90  | 11.6  | 0.7   | 5.5   | 6.1   | 57    | 0.1   | 0.6   | 0.1   | 57    | 1.73  | 0.040 |
| CAT 59024 | Soil                             | 0.7   | 43.8  | 10.6  | 72    | <0.1  | 39.5  | 15.5  | 493   | 3.47  | 12.4  | 1.1   | 5.9   | 11.0  | 43    | <0.1  | 0.4   | 0.1   | 59    | 0.53  | 0.057 |
| CAT 59029 | Soil                             | 2.6   | 87.2  | 27.6  | 94    | <0.1  | 111.2 | 30.1  | 930   | 5.07  | 4.2   | 1.9   | 1.0   | 9.5   | 93    | 0.3   | 0.3   | 0.3   | 106   | 0.99  | 0.162 |
| CAT 59030 | Soil                             | 1.1   | 43.5  | 13.6  | 66    | <0.1  | 41.1  | 15.3  | 399   | 3.15  | 5.6   | 1.3   | 2.6   | 6.0   | 56    | 0.1   | 0.3   | 0.2   | 72    | 0.69  | 0.097 |
| CAT 59031 | Soil                             | 4.5   | 76.2  | 18.2  | 99    | 0.1   | 80.5  | 31.7  | 3602  | 5.01  | 46.3  | 3.8   | 8.6   | 21.7  | 111   | 0.2   | 1.0   | 0.2   | 81    | 1.06  | 0.152 |
| CAT 59032 | Soil                             | 1.6   | 51.6  | 16.4  | 87    | <0.1  | 53.1  | 18.1  | 597   | 4.24  | 15.6  | 1.7   | 3.3   | 21.9  | 89    | 0.1   | 0.4   | <0.1  | 40    | 0.75  | 0.133 |
| CAT 59040 | Soil                             | 1.3   | 40.8  | 16.6  | 74    | <0.1  | 48.9  | 18.6  | 678   | 4.25  | 7.8   | 0.8   | 1.4   | 6.8   | 26    | <0.1  | 0.5   | 0.2   | 79    | 0.31  | 0.055 |
| CAT 59041 | Soil                             | 1.3   | 32.5  | 15.2  | 59    | 0.1   | 35.5  | 13.6  | 389   | 3.22  | 8.5   | 1.2   | 2.6   | 6.1   | 31    | <0.1  | 0.3   | 0.2   | 64    | 0.37  | 0.049 |
| CAT 59042 | Soil                             | 1.2   | 44.4  | 15.2  | 65    | <0.1  | 38.7  | 13.7  | 477   | 3.32  | 10.9  | 1.2   | 4.9   | 6.5   | 44    | 0.1   | 0.5   | 0.2   | 64    | 0.52  | 0.056 |
| CAT 59043 | Soil                             | 4.0   | 91.9  | 32.5  | 95    | 0.4   | 68.1  | 23.5  | 1099  | 5.81  | 23.9  | 1.6   | 146.8 | 13.3  | 24    | 0.1   | 0.9   | 0.2   | 80    | 0.30  | 0.037 |
| CAT 59044 | Soil                             | 1.8   | 51.3  | 17.8  | 80    | <0.1  | 80.2  | 20.9  | 513   | 4.27  | 9.6   | 1.3   | 2.1   | 7.1   | 50    | <0.1  | 0.4   | 0.2   | 82    | 0.47  | 0.045 |
| CAT 59045 | Soil                             | 2.4   | 90.9  | 19.2  | 120   | 0.1   | 82.7  | 25.8  | 979   | 5.21  | 10.8  | 1.6   | 7.5   | 8.6   | 83    | 0.2   | 0.6   | 0.2   | 106   | 0.76  | 0.150 |
| CAT 59046 | Soil                             | 1.0   | 27.2  | 10.4  | 60    | <0.1  | 31.1  | 13.2  | 394   | 3.37  | 6.8   | 0.6   | 1.5   | 5.8   | 26    | 0.1   | 0.4   | 0.1   | 69    | 0.22  | 0.030 |
| CAT 59047 | Soil                             | 1.4   | 44.0  | 10.0  | 71    | <0.1  | 47.5  | 14.5  | 457   | 3.74  | 6.4   | 1.7   | 1.6   | 8.7   | 41    | <0.1  | 0.4   | 0.1   | 76    | 0.37  | 0.041 |
| CAT 59048 | Soil                             | 1.5   | 26.3  | 12.4  | 55    | <0.1  | 30.8  | 12.2  | 395   | 3.28  | 9.5   | 0.7   | 3.2   | 4.6   | 18    | <0.1  | 0.5   | 0.2   | 67    | 0.20  | 0.025 |
| CAT 59049 | Soil                             | 1.0   | 29.2  | 24.4  | 67    | 0.1   | 39.1  | 12.4  | 453   | 3.54  | 5.0   | 1.2   | 3.0   | 8.0   | 43    | 0.1   | 0.3   | 0.2   | 71    | 0.62  | 0.051 |
| CAT 59051 | Soil                             | 1.3   | 26.1  | 23.7  | 83    | <0.1  | 28.7  | 14.5  | 535   | 3.66  | 11.5  | 0.8   | 2.6   | 6.1   | 24    | <0.1  | 0.4   | 0.2   | 69    | 0.34  | 0.092 |
| CAT 59053 | Soil                             | 1.3   | 35.8  | 10.2  | 61    | <0.1  | 38.7  | 10.9  | 328   | 2.89  | 4.6   | 1.2   | 2.2   | 5.5   | 31    | <0.1  | 0.2   | 0.1   | 72    | 0.35  | 0.046 |
| CAT 59054 | Soil                             | 1.6   | 59.1  | 40.8  | 105   | 0.1   | 54.5  | 19.2  | 670   | 4.76  | 3.5   | 1.0   | 0.9   | 7.0   | 30    | 0.3   | 0.3   | 0.3   | 97    | 0.43  | 0.109 |
| CAT 59055 | Soil                             | 1.0   | 19.8  | 9.3   | 49    | 0.1   | 24.7  | 8.0   | 186   | 2.58  | 6.5   | 0.6   | 4.9   | 4.2   | 19    | 0.1   | 0.3   | 0.1   | 60    | 0.21  | 0.041 |
| CAT 59057 | Soil                             | 1.3   | 29.0  | 10.4  | 59    | 0.1   | 30.2  | 10.0  | 312   | 3.06  | 6.1   | 1.0   | 4.4   | 6.4   | 29    | <0.1  | 0.3   | 0.1   | 72    | 0.25  | 0.040 |
| CAT 59058 | Soil                             | 1.6   | 37.9  | 12.7  | 72    | 0.1   | 32.4  | 16.4  | 575   | 3.33  | 5.4   | 1.3   | 2.5   | 6.5   | 34    | 0.1   | 0.3   | 0.2   | 76    | 0.29  | 0.053 |
| CAT 59060 | Soil                             | 1.4   | 30.1  | 15.2  | 91    | 0.1   | 56.7  | 15.7  | 571   | 3.51  | 5.7   | 0.7   | 3.0   | 5.7   | 38    | 0.2   | 0.3   | 0.2   | 79    | 0.41  | 0.057 |
| CAT 59061 | Soil                             | 1.1   | 27.9  | 8.3   | 67    | <0.1  | 32.3  | 14.0  | 350   | 3.59  | 5.8   | 0.9   | 4.0   | 7.7   | 29    | <0.1  | 0.3   | 0.1   | 68    | 0.33  | 0.049 |
| CAT 59062 | Soil                             | 1.0   | 38.5  | 10.7  | 76    | <0.1  | 36.0  | 15.0  | 531   | 3.73  | 3.5   | 1.7   | 2.3   | 10.9  | 56    | 0.1   | 0.2   | 0.1   | 59    | 0.70  | 0.068 |



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**Project:** CAT  
**Report Date:** September 15, 2009

**Page:** 7 of 11 **Part** 2

## CERTIFICATE OF ANALYSIS

VAN09003942.1

|           | Method<br>Analyte<br>Unit<br>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 59015 | Soil                             | 53    | 48    | 0.88  | 256   | 0.114 | <1    | 2.39  | 0.011 | 0.61  | <0.1  | 0.02  | 5.1   | 0.4   | <0.05 | 7     | <0.5  |
| CAT 59016 | Soil                             | 24    | 35    | 0.72  | 422   | 0.064 | 2     | 1.45  | 0.016 | 0.34  | <0.1  | 0.12  | 8.4   | 0.3   | <0.05 | 5     | <0.5  |
| CAT 59018 | Soil                             | 18    | 41    | 0.78  | 156   | 0.120 | <1    | 1.97  | 0.012 | 0.39  | 0.1   | 0.01  | 3.5   | 0.3   | <0.05 | 6     | <0.5  |
| CAT 59019 | Soil                             | 99    | 42    | 0.80  | 344   | 0.123 | 2     | 2.14  | 0.017 | 0.54  | 0.1   | 0.02  | 3.9   | 0.3   | <0.05 | 7     | <0.5  |
| CAT 59020 | Soil                             | 45    | 40    | 0.72  | 294   | 0.131 | <1    | 1.75  | 0.014 | 0.59  | <0.1  | 0.03  | 6.0   | 0.4   | <0.05 | 6     | <0.5  |
| CAT 59023 | Soil                             | 22    | 35    | 0.69  | 313   | 0.114 | 2     | 1.56  | 0.030 | 0.21  | 0.2   | 0.03  | 4.5   | 0.1   | <0.05 | 5     | <0.5  |
| CAT 59024 | Soil                             | 35    | 40    | 0.78  | 385   | 0.126 | 1     | 1.67  | 0.028 | 0.28  | 0.1   | 0.05  | 5.2   | 0.2   | <0.05 | 5     | <0.5  |
| CAT 59029 | Soil                             | 47    | 134   | 1.66  | 460   | 0.205 | 1     | 2.55  | 0.020 | 0.87  | <0.1  | 0.03  | 7.2   | 0.3   | <0.05 | 9     | 0.6   |
| CAT 59030 | Soil                             | 21    | 62    | 0.92  | 298   | 0.146 | 1     | 1.73  | 0.025 | 0.41  | 0.2   | 0.02  | 4.3   | 0.2   | <0.05 | 5     | <0.5  |
| CAT 59031 | Soil                             | 79    | 71    | 1.28  | 441   | 0.100 | 2     | 1.77  | 0.012 | 0.49  | 0.1   | 0.06  | 6.8   | 0.3   | 0.10  | 7     | 1.7   |
| CAT 59032 | Soil                             | 65    | 51    | 0.89  | 380   | 0.098 | 2     | 1.55  | 0.009 | 0.58  | <0.1  | 0.04  | 5.2   | 0.4   | 0.06  | 5     | <0.5  |
| CAT 59040 | Soil                             | 19    | 69    | 1.03  | 363   | 0.171 | <1    | 2.35  | 0.011 | 0.66  | 0.1   | 0.01  | 5.3   | 0.3   | <0.05 | 8     | <0.5  |
| CAT 59041 | Soil                             | 22    | 53    | 0.79  | 479   | 0.124 | <1    | 1.69  | 0.013 | 0.22  | 0.1   | 0.02  | 4.2   | 0.2   | <0.05 | 6     | <0.5  |
| CAT 59042 | Soil                             | 22    | 50    | 0.81  | 543   | 0.119 | 1     | 1.64  | 0.018 | 0.31  | 0.1   | 0.02  | 4.9   | 0.2   | <0.05 | 6     | <0.5  |
| CAT 59043 | Soil                             | 42    | 68    | 0.88  | 377   | 0.119 | 2     | 1.75  | 0.008 | 0.53  | <0.1  | 0.05  | 13.2  | 0.3   | <0.05 | 7     | 0.7   |
| CAT 59044 | Soil                             | 29    | 101   | 1.24  | 398   | 0.179 | <1    | 2.33  | 0.014 | 0.47  | <0.1  | 0.02  | 5.5   | 0.3   | <0.05 | 8     | <0.5  |
| CAT 59045 | Soil                             | 36    | 73    | 1.33  | 1432  | 0.155 | <1    | 2.27  | 0.020 | 0.59  | <0.1  | 0.02  | 8.0   | 0.4   | <0.05 | 9     | <0.5  |
| CAT 59046 | Soil                             | 13    | 47    | 0.73  | 415   | 0.139 | <1    | 1.81  | 0.011 | 0.39  | 0.1   | 0.01  | 3.8   | 0.2   | <0.05 | 6     | <0.5  |
| CAT 59047 | Soil                             | 31    | 66    | 0.92  | 536   | 0.151 | 2     | 1.89  | 0.016 | 0.46  | 0.1   | 0.02  | 6.3   | 0.3   | <0.05 | 7     | 0.5   |
| CAT 59048 | Soil                             | 12    | 46    | 0.69  | 304   | 0.085 | <1    | 1.93  | 0.010 | 0.12  | 0.2   | 0.01  | 3.4   | 0.1   | <0.05 | 6     | <0.5  |
| CAT 59049 | Soil                             | 33    | 68    | 0.96  | 565   | 0.140 | <1    | 2.07  | 0.011 | 0.27  | <0.1  | 0.03  | 6.0   | 0.2   | <0.05 | 9     | <0.5  |
| CAT 59051 | Soil                             | 21    | 50    | 0.83  | 351   | 0.119 | <1    | 1.67  | 0.012 | 0.29  | 0.1   | 0.02  | 4.4   | 0.2   | <0.05 | 7     | <0.5  |
| CAT 59053 | Soil                             | 28    | 61    | 0.77  | 313   | 0.108 | 2     | 1.76  | 0.011 | 0.14  | <0.1  | 0.02  | 4.4   | 0.2   | <0.05 | 7     | <0.5  |
| CAT 59054 | Soil                             | 30    | 75    | 1.37  | 373   | 0.169 | <1    | 2.58  | 0.012 | 0.82  | 0.3   | 0.02  | 5.6   | 0.4   | <0.05 | 10    | <0.5  |
| CAT 59055 | Soil                             | 13    | 43    | 0.58  | 155   | 0.093 | 1     | 1.69  | 0.011 | 0.11  | 0.1   | 0.02  | 2.6   | 0.1   | <0.05 | 6     | <0.5  |
| CAT 59057 | Soil                             | 23    | 56    | 0.72  | 392   | 0.133 | <1    | 1.78  | 0.011 | 0.19  | 0.2   | 0.02  | 3.9   | 0.2   | <0.05 | 7     | <0.5  |
| CAT 59058 | Soil                             | 26    | 49    | 0.81  | 330   | 0.147 | 2     | 1.96  | 0.012 | 0.31  | 0.2   | 0.03  | 4.1   | 0.2   | <0.05 | 8     | <0.5  |
| CAT 59060 | Soil                             | 22    | 125   | 1.10  | 253   | 0.162 | <1    | 1.97  | 0.013 | 0.63  | 0.2   | 0.02  | 4.0   | 0.3   | <0.05 | 7     | <0.5  |
| CAT 59061 | Soil                             | 23    | 43    | 0.91  | 230   | 0.172 | <1    | 1.96  | 0.014 | 0.47  | 0.1   | 0.01  | 3.9   | 0.3   | <0.05 | 7     | <0.5  |
| CAT 59062 | Soil                             | 42    | 51    | 0.92  | 499   | 0.171 | 1     | 1.90  | 0.016 | 0.56  | 0.1   | 0.03  | 5.0   | 0.4   | <0.05 | 7     | <0.5  |



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Project: CAT  
Report Date: September 15, 2009

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## CERTIFICATE OF ANALYSIS

VAN09003942.1

|           |      | Method<br>Analyte<br>Unit<br>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    | 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 59063 | Soil | 1.5                              | 22.5  | 18.9  | 65    | 0.1   | 23.9  | 10.9  | 715   | 2.91  | 5.5   | 0.7   | 3.0   | 4.5   | 31    | 0.2   | 0.3   | 0.2   | 69    | 0.34  | 0.028 |      |
| CAT 59064 | Soil | 1.5                              | 38.1  | 17.5  | 68    | 0.2   | 30.5  | 9.9   | 278   | 2.96  | 5.6   | 1.1   | 10.9  | 6.3   | 41    | 0.3   | 0.2   | 0.2   | 65    | 0.44  | 0.040 |      |
| CAT 59065 | Soil | 1.2                              | 38.7  | 15.2  | 77    | <0.1  | 33.4  | 13.4  | 507   | 3.33  | 5.3   | 1.3   | 7.4   | 9.1   | 33    | 0.2   | 0.2   | 0.1   | 66    | 0.34  | 0.054 |      |
| CAT 59066 | Soil | 1.1                              | 34.1  | 11.3  | 73    | <0.1  | 30.8  | 11.3  | 359   | 3.27  | 5.0   | 1.0   | 3.2   | 6.8   | 44    | 0.1   | 0.2   | 0.1   | 62    | 0.32  | 0.053 |      |
| CAT 59067 | Soil | 1.8                              | 50.4  | 15.6  | 94    | 0.2   | 49.3  | 11.0  | 351   | 3.29  | 7.0   | 1.4   | 27.6  | 7.6   | 42    | 0.3   | 0.3   | 0.2   | 72    | 0.45  | 0.070 |      |
| CAT 59068 | Soil | 1.7                              | 41.6  | 24.6  | 100   | 0.2   | 37.8  | 10.9  | 384   | 2.51  | 3.6   | 1.2   | 5.8   | 4.7   | 47    | 0.4   | 0.2   | 0.2   | 57    | 0.47  | 0.064 |      |
| CAT 59141 | Soil | 1.6                              | 48.9  | 13.9  | 99    | <0.1  | 47.0  | 17.5  | 471   | 4.38  | 5.1   | 1.5   | 1.2   | 12.6  | 27    | 0.1   | 0.7   | 0.1   | 73    | 0.24  | 0.063 |      |
| CAT 59142 | Soil | 1.6                              | 59.9  | 13.3  | 85    | <0.1  | 60.9  | 14.3  | 428   | 3.64  | 10.4  | 1.5   | 19.8  | 9.3   | 104   | <0.1  | 0.7   | 0.1   | 65    | 0.58  | 0.209 |      |
| CAT 59144 | Soil | 3.0                              | 102.0 | 24.8  | 130   | <0.1  | 99.3  | 21.5  | 781   | 4.90  | 24.4  | 2.0   | 4.0   | 6.7   | 34    | 0.2   | 0.9   | 0.3   | 104   | 0.47  | 0.201 |      |
| CAT 59145 | Soil | 2.2                              | 58.5  | 14.6  | 111   | <0.1  | 58.6  | 20.1  | 565   | 4.75  | 7.2   | 1.8   | 1.6   | 10.9  | 31    | 0.1   | 0.4   | 0.1   | 73    | 0.21  | 0.066 |      |
| CAT 59148 | Soil | 1.4                              | 50.0  | 14.2  | 94    | <0.1  | 36.9  | 16.3  | 442   | 4.69  | 5.0   | 1.3   | 1.5   | 13.7  | 18    | <0.1  | 0.4   | 0.1   | 67    | 0.22  | 0.029 |      |
| CAT 59149 | Soil | 1.1                              | 46.0  | 13.8  | 94    | <0.1  | 44.1  | 19.3  | 500   | 4.34  | 6.4   | 1.3   | 4.1   | 11.4  | 20    | <0.1  | 0.4   | 0.1   | 66    | 0.23  | 0.025 |      |
| CAT 59150 | Soil | 1.6                              | 60.2  | 8.5   | 115   | <0.1  | 57.8  | 27.5  | 658   | 5.36  | 3.3   | 0.8   | 2.0   | 7.4   | 12    | <0.1  | 0.2   | <0.1  | 86    | 0.11  | 0.021 |      |
| CAT 59151 | Soil | 1.1                              | 46.4  | 8.0   | 79    | <0.1  | 35.6  | 18.1  | 350   | 4.39  | 6.4   | 0.6   | 2.3   | 5.0   | 15    | <0.1  | 0.4   | 0.1   | 111   | 0.19  | 0.048 |      |
| CAT 59155 | Soil | 1.1                              | 25.8  | 13.8  | 99    | 0.1   | 25.9  | 12.6  | 1585  | 3.24  | 18.8  | 1.0   | 0.9   | 7.3   | 26    | 0.3   | 0.5   | 0.1   | 42    | 0.33  | 0.055 |      |
| CAT 59157 | Soil | 0.8                              | 37.9  | 7.2   | 72    | <0.1  | 54.1  | 20.4  | 427   | 4.11  | 5.9   | 0.5   | 7.3   | 5.1   | 24    | <0.1  | 0.4   | 0.2   | 103   | 0.42  | 0.054 |      |
| CAT 59158 | Soil | 1.1                              | 117.9 | 8.6   | 101   | <0.1  | 52.2  | 23.0  | 407   | 4.39  | 5.7   | 0.8   | 2.8   | 10.2  | 19    | <0.1  | 0.4   | 0.2   | 72    | 0.23  | 0.018 |      |
| CAT 59159 | Soil | 1.1                              | 30.2  | 8.8   | 76    | <0.1  | 42.0  | 17.9  | 493   | 3.62  | 7.3   | 0.8   | 9.7   | 8.8   | 20    | 0.1   | 0.4   | 0.2   | 67    | 0.24  | 0.022 |      |
| CAT 59160 | Soil | 1.3                              | 32.8  | 7.8   | 78    | <0.1  | 38.9  | 18.4  | 845   | 3.60  | 7.5   | 0.8   | 2.0   | 7.8   | 26    | <0.1  | 0.4   | 0.2   | 75    | 0.30  | 0.030 |      |
| CAT 59161 | Soil | 0.9                              | 52.2  | 8.4   | 91    | <0.1  | 76.4  | 23.2  | 386   | 4.24  | 5.1   | 0.8   | 258.1 | 11.9  | 23    | <0.1  | 0.3   | 0.1   | 77    | 0.31  | 0.035 |      |
| CAT 59162 | Soil | 1.0                              | 27.4  | 9.9   | 72    | <0.1  | 38.5  | 15.2  | 320   | 3.51  | 9.6   | 1.1   | 2.9   | 14.0  | 19    | <0.1  | 0.4   | 0.1   | 60    | 0.22  | 0.017 |      |
| CAT 59163 | Soil | 0.8                              | 42.9  | 12.8  | 99    | <0.1  | 46.4  | 19.8  | 441   | 5.20  | 6.3   | 1.2   | 1.9   | 17.8  | 32    | <0.1  | 0.2   | <0.1  | 65    | 0.41  | 0.036 |      |
| CAT 59164 | Soil | 1.2                              | 59.4  | 31.1  | 92    | 0.1   | 76.4  | 26.2  | 802   | 4.75  | 11.0  | 1.5   | 3.4   | 10.9  | 50    | 0.2   | 0.5   | 0.5   | 97    | 0.63  | 0.079 |      |
| CAT 59165 | Soil | 2.2                              | 73.1  | 17.7  | 101   | <0.1  | 93.5  | 28.3  | 867   | 5.02  | 42.7  | 1.2   | 4.7   | 9.3   | 61    | 0.5   | 1.1   | 0.2   | 100   | 0.73  | 0.086 |      |
| CAT 59166 | Soil | 2.0                              | 79.9  | 29.6  | 121   | <0.1  | 73.9  | 30.7  | 1030  | 6.38  | 28.0  | 1.9   | 3.6   | 18.4  | 34    | 0.1   | 1.0   | 0.2   | 119   | 0.41  | 0.063 |      |
| CAT 59167 | Soil | 1.2                              | 53.6  | 13.7  | 79    | <0.1  | 53.0  | 15.2  | 430   | 3.35  | 12.5  | 1.1   | 2.3   | 5.5   | 99    | 0.3   | 0.7   | 0.2   | 78    | 0.97  | 0.092 |      |
| CAT 59168 | Soil | 1.8                              | 26.6  | 11.1  | 62    | 0.1   | 35.6  | 16.2  | 1063  | 2.84  | 8.4   | 1.2   | 4.9   | 3.8   | 112   | 0.3   | 0.5   | 0.2   | 67    | 1.10  | 0.083 |      |
| CAT 59169 | Soil | 1.0                              | 43.7  | 14.2  | 77    | 0.1   | 47.0  | 15.4  | 392   | 3.60  | 9.2   | 1.3   | 3.9   | 7.0   | 54    | 0.1   | 0.6   | 0.2   | 82    | 0.76  | 0.076 |      |
| CAT 59170 | Soil | 1.6                              | 50.5  | 15.0  | 72    | 0.1   | 47.9  | 17.9  | 517   | 3.65  | 7.4   | 1.4   | 4.8   | 6.3   | 65    | 0.2   | 0.4   | 0.2   | 88    | 0.68  | 0.083 |      |
| CAT 59171 | Soil | 1.4                              | 49.1  | 13.8  | 77    | 0.1   | 62.0  | 19.7  | 624   | 3.75  | 8.8   | 1.9   | 7.6   | 7.9   | 143   | 0.2   | 0.4   | 0.2   | 85    | 1.01  | 0.217 |      |



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**Project:** CAT  
**Report Date:** September 15, 2009

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## CERTIFICATE OF ANALYSIS

VAN09003942.1

|           | Method<br>Analyte<br>Unit<br>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 59063 | Soil                             | 17    | 37    | 0.64  | 407   | 0.132 | <1    | 1.54  | 0.012 | 0.32  | 0.1   | 0.01  | 3.1   | 0.2   | <0.05 | 6     | <0.5  |
| CAT 59064 | Soil                             | 27    | 39    | 0.65  | 665   | 0.133 | <1    | 1.59  | 0.015 | 0.25  | 0.1   | 0.02  | 3.7   | 0.2   | <0.05 | 7     | <0.5  |
| CAT 59065 | Soil                             | 34    | 49    | 0.70  | 539   | 0.126 | <1    | 1.70  | 0.013 | 0.33  | 0.2   | 0.02  | 4.6   | 0.2   | <0.05 | 7     | <0.5  |
| CAT 59066 | Soil                             | 28    | 43    | 0.72  | 509   | 0.127 | <1    | 1.73  | 0.012 | 0.32  | 0.2   | 0.02  | 4.0   | 0.2   | <0.05 | 7     | <0.5  |
| CAT 59067 | Soil                             | 33    | 54    | 0.71  | 640   | 0.113 | <1    | 1.63  | 0.013 | 0.27  | 0.1   | 0.04  | 5.0   | 0.2   | <0.05 | 6     | 0.5   |
| CAT 59068 | Soil                             | 28    | 53    | 0.65  | 502   | 0.099 | 1     | 1.44  | 0.014 | 0.24  | 0.2   | 0.04  | 3.7   | 0.2   | <0.05 | 6     | 0.8   |
| CAT 59141 | Soil                             | 37    | 56    | 0.88  | 380   | 0.164 | <1    | 1.99  | 0.009 | 0.65  | 0.1   | 0.02  | 5.3   | 0.4   | <0.05 | 7     | <0.5  |
| CAT 59142 | Soil                             | 38    | 56    | 0.76  | 358   | 0.084 | <1    | 1.69  | 0.010 | 0.26  | 0.1   | 0.02  | 4.9   | 0.2   | <0.05 | 6     | <0.5  |
| CAT 59144 | Soil                             | 24    | 99    | 1.06  | 320   | 0.111 | <1    | 2.22  | 0.008 | 0.49  | 0.1   | 0.03  | 7.5   | 0.3   | <0.05 | 8     | 0.9   |
| CAT 59145 | Soil                             | 34    | 60    | 1.01  | 338   | 0.183 | <1    | 2.43  | 0.009 | 0.83  | 0.1   | 0.01  | 5.0   | 0.5   | <0.05 | 8     | 0.7   |
| CAT 59148 | Soil                             | 33    | 54    | 0.90  | 215   | 0.210 | <1    | 2.33  | 0.008 | 0.88  | <0.1  | 0.01  | 4.8   | 0.6   | <0.05 | 8     | <0.5  |
| CAT 59149 | Soil                             | 29    | 46    | 0.86  | 294   | 0.152 | <1    | 2.08  | 0.009 | 0.51  | <0.1  | 0.01  | 5.7   | 0.4   | <0.05 | 7     | <0.5  |
| CAT 59150 | Soil                             | 18    | 68    | 1.31  | 243   | 0.270 | <1    | 3.02  | 0.012 | 1.09  | <0.1  | <0.01 | 5.5   | 0.6   | <0.05 | 10    | <0.5  |
| CAT 59151 | Soil                             | 11    | 47    | 1.19  | 279   | 0.195 | <1    | 2.72  | 0.011 | 0.76  | 0.1   | <0.01 | 6.0   | 0.3   | <0.05 | 8     | <0.5  |
| CAT 59155 | Soil                             | 22    | 25    | 0.30  | 353   | 0.019 | <1    | 1.28  | 0.010 | 0.13  | 0.1   | 0.02  | 3.9   | <0.1  | <0.05 | 4     | <0.5  |
| CAT 59157 | Soil                             | 15    | 96    | 1.21  | 439   | 0.152 | 2     | 1.99  | 0.017 | 0.42  | <0.1  | 0.03  | 6.5   | 0.3   | <0.05 | 7     | <0.5  |
| CAT 59158 | Soil                             | 19    | 49    | 1.00  | 213   | 0.176 | 2     | 2.44  | 0.012 | 0.84  | <0.1  | 0.02  | 4.8   | 0.3   | <0.05 | 7     | <0.5  |
| CAT 59159 | Soil                             | 22    | 50    | 0.85  | 221   | 0.145 | 2     | 2.04  | 0.011 | 0.57  | 0.1   | 0.02  | 4.6   | 0.2   | <0.05 | 6     | <0.5  |
| CAT 59160 | Soil                             | 19    | 46    | 0.83  | 276   | 0.141 | 2     | 1.90  | 0.013 | 0.45  | <0.1  | 0.03  | 3.8   | 0.3   | <0.05 | 6     | <0.5  |
| CAT 59161 | Soil                             | 31    | 92    | 1.35  | 234   | 0.178 | 1     | 2.42  | 0.013 | 0.61  | <0.1  | 0.02  | 4.6   | 0.4   | <0.05 | 8     | <0.5  |
| CAT 59162 | Soil                             | 22    | 43    | 0.75  | 202   | 0.121 | 1     | 1.72  | 0.011 | 0.46  | <0.1  | 0.02  | 4.4   | 0.3   | <0.05 | 6     | <0.5  |
| CAT 59163 | Soil                             | 31    | 50    | 1.01  | 288   | 0.212 | <1    | 2.40  | 0.010 | 0.88  | <0.1  | 0.02  | 5.8   | 0.6   | <0.05 | 8     | 0.5   |
| CAT 59164 | Soil                             | 38    | 80    | 1.05  | 419   | 0.110 | 1     | 1.84  | 0.017 | 0.58  | <0.1  | 0.03  | 8.2   | 0.3   | <0.05 | 6     | 0.6   |
| CAT 59165 | Soil                             | 36    | 90    | 1.08  | 513   | 0.074 | 2     | 2.03  | 0.015 | 0.43  | <0.1  | 0.04  | 8.9   | 0.3   | <0.05 | 7     | <0.5  |
| CAT 59166 | Soil                             | 57    | 72    | 1.47  | 306   | 0.138 | 2     | 2.59  | 0.009 | 0.83  | <0.1  | 0.04  | 10.4  | 0.4   | <0.05 | 9     | 0.8   |
| CAT 59167 | Soil                             | 23    | 66    | 0.94  | 440   | 0.115 | 3     | 1.57  | 0.022 | 0.31  | 0.2   | 0.04  | 5.4   | 0.2   | <0.05 | 5     | 0.6   |
| CAT 59168 | Soil                             | 16    | 52    | 0.75  | 281   | 0.107 | 2     | 1.39  | 0.021 | 0.22  | 0.1   | 0.04  | 3.6   | 0.1   | <0.05 | 5     | <0.5  |
| CAT 59169 | Soil                             | 22    | 57    | 0.93  | 365   | 0.140 | 2     | 1.80  | 0.026 | 0.18  | 0.2   | 0.04  | 5.5   | 0.2   | <0.05 | 6     | 0.6   |
| CAT 59170 | Soil                             | 31    | 68    | 1.00  | 488   | 0.156 | 1     | 1.89  | 0.017 | 0.33  | 0.1   | 0.03  | 4.8   | 0.2   | <0.05 | 6     | 0.7   |
| CAT 59171 | Soil                             | 40    | 71    | 1.13  | 402   | 0.155 | 2     | 1.86  | 0.016 | 0.40  | 0.2   | 0.03  | 4.8   | 0.2   | <0.05 | 7     | <0.5  |



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Report Date: September 15, 2009

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## CERTIFICATE OF ANALYSIS

VAN09003942.1

|           | Method<br>Analyte<br>Unit<br>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<br>0.1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>1 | %<br>0.01 | ppm<br>0.5 | ppm<br>0.1 | ppb<br>0.5 | ppm<br>0.1 | ppm<br>1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>2 | %<br>0.01 |
| CAT 59172 | Soil                             | 1.7        | 46.9       | 13.5       | 73       | 0.1        | 60.4       | 20.1       | 626      | 3.77      | 8.5        | 2.0        | 5.6        | 7.7        | 132      | <0.1       | 0.3        | 0.2        | 82       | 1.02      |
| CAT 59173 | Soil                             | 1.2        | 38.1       | 15.6       | 89       | 0.1        | 44.6       | 17.5       | 519      | 3.64      | 12.4       | 1.7        | 6.5        | 11.0       | 59       | 0.1        | 0.5        | 0.1        | 67       | 0.59      |
| CAT 59176 | Soil                             | 0.7        | 82.6       | 2.8        | 44       | <0.1       | 113.9      | 18.8       | 323      | 2.30      | 3.9        | 0.3        | 3.0        | 1.3        | 17       | <0.1       | 0.2        | <0.1       | 75       | 0.54      |
| CAT 59177 | Soil                             | 0.6        | 102.1      | 5.1        | 65       | <0.1       | 33.1       | 16.1       | 607      | 2.77      | 6.6        | 0.4        | 4.3        | 2.1        | 26       | 0.2        | 0.4        | 0.1        | 75       | 0.62      |
| CAT 59178 | Soil                             | 0.6        | 53.4       | 6.1        | 55       | <0.1       | 32.5       | 14.5       | 533      | 2.62      | 6.8        | 0.4        | 6.5        | 2.9        | 24       | 0.1        | 0.4        | 0.1        | 66       | 0.55      |
| CAT 59185 | Soil                             | 0.6        | 74.9       | 7.6        | 69       | <0.1       | 25.0       | 11.8       | 252      | 2.45      | 7.0        | 1.4        | 3.8        | 3.7        | 36       | 0.1        | 0.6        | 0.1        | 68       | 0.61      |
| CAT 59187 | Soil                             | 0.6        | 53.6       | 5.7        | 45       | <0.1       | 20.3       | 9.9        | 191      | 2.09      | 5.0        | 0.5        | 5.8        | 2.0        | 24       | 0.1        | 0.3        | 0.1        | 60       | 0.39      |
| CAT 59190 | Soil                             | 0.6        | 51.7       | 6.1        | 51       | <0.1       | 32.0       | 12.6       | 363      | 2.63      | 5.5        | 0.6        | 2.5        | 2.3        | 24       | 0.1        | 0.3        | <0.1       | 72       | 0.47      |
| CAT 59191 | Soil                             | 0.6        | 46.9       | 6.5        | 47       | <0.1       | 30.1       | 12.3       | 590      | 2.53      | 5.2        | 0.6        | 4.7        | 2.4        | 23       | <0.1       | 0.3        | 0.1        | 74       | 0.48      |
| CAT 59192 | Soil                             | 0.8        | 20.7       | 4.9        | 37       | <0.1       | 16.6       | 9.1        | 205      | 2.25      | 6.0        | 0.4        | 6.4        | 1.7        | 22       | <0.1       | 0.3        | <0.1       | 70       | 0.43      |
| CAT 59193 | Soil                             | 0.6        | 73.8       | 64.0       | 48       | 0.1        | 33.3       | 15.8       | 467      | 2.58      | 4.2        | 0.7        | 5.5        | 1.4        | 44       | 0.3        | 0.3        | <0.1       | 77       | 1.01      |
| CAT 59194 | Soil                             | 0.8        | 89.8       | 4.8        | 54       | <0.1       | 23.2       | 14.1       | 332      | 2.96      | 5.0        | 0.5        | 3.6        | 2.2        | 25       | <0.1       | 0.4        | <0.1       | 84       | 0.39      |
| CAT 59195 | Soil                             | 0.7        | 48.0       | 5.4        | 47       | <0.1       | 24.0       | 10.8       | 227      | 2.61      | 7.3        | 0.5        | 1.8        | 2.8        | 24       | 0.1        | 0.4        | 0.1        | 72       | 0.36      |
| CAT 59196 | Soil                             | 0.4        | 79.0       | 4.1        | 43       | <0.1       | 30.1       | 13.2       | 362      | 2.43      | 5.2        | 0.7        | 3.5        | 2.7        | 22       | <0.1       | 0.3        | 0.1        | 69       | 0.40      |
| CAT 59197 | Soil                             | 0.4        | 55.6       | 4.1        | 73       | <0.1       | 19.4       | 14.2       | 423      | 3.35      | 3.9        | 0.6        | 1.6        | 1.7        | 22       | 0.1        | 0.3        | <0.1       | 113      | 0.43      |
| CAT 59198 | Soil                             | 0.8        | 75.1       | 4.5        | 34       | <0.1       | 17.4       | 9.8        | 172      | 2.10      | 4.7        | 0.3        | 1.8        | 1.4        | 21       | <0.1       | 0.3        | 0.1        | 70       | 0.29      |
| CAT 59199 | Soil                             | 0.4        | 71.2       | 5.5        | 49       | <0.1       | 28.7       | 14.3       | 284      | 2.51      | 6.6        | 0.7        | 7.6        | 2.5        | 30       | <0.1       | 0.3        | 0.1        | 73       | 0.54      |
| CAT 59201 | Soil                             | 0.5        | 136.0      | 4.4        | 43       | <0.1       | 19.3       | 13.4       | 244      | 2.19      | 4.9        | 0.7        | 3.6        | 1.6        | 26       | 0.1        | 0.2        | <0.1       | 54       | 0.48      |
| CAT 59202 | Soil                             | 0.6        | 41.5       | 5.1        | 54       | 0.1        | 19.5       | 10.9       | 273      | 2.37      | 4.4        | 0.7        | 2.2        | 2.2        | 41       | 0.1        | 0.2        | <0.1       | 68       | 0.74      |
| CAT 59203 | Soil                             | 1.2        | 71.0       | 5.5        | 57       | <0.1       | 24.4       | 11.0       | 455      | 2.55      | 4.2        | 0.5        | 5.6        | 1.9        | 27       | <0.1       | 0.3        | <0.1       | 79       | 0.42      |
| CAT 59204 | Soil                             | 0.2        | 119.4      | 3.1        | 48       | <0.1       | 31.2       | 14.3       | 283      | 2.33      | 3.4        | 0.5        | 10.0       | 1.2        | 67       | <0.1       | 0.3        | <0.1       | 72       | 0.72      |
| CAT 59205 | Soil                             | 0.4        | 26.5       | 3.1        | 27       | <0.1       | 10.7       | 8.8        | 209      | 1.35      | 3.0        | 0.2        | 3.1        | 0.6        | 59       | 0.2        | 0.2        | <0.1       | 36       | 0.59      |
| CAT 59206 | Soil                             | 0.4        | 54.2       | 3.1        | 24       | <0.1       | 28.3       | 20.8       | 273      | 1.88      | 3.2        | 0.2        | 1.6        | 0.8        | 73       | 0.1        | 0.4        | <0.1       | 51       | 0.34      |
| CAT 59255 | Soil                             | 0.5        | 26.0       | 3.9        | 22       | <0.1       | 16.1       | 7.7        | 126      | 1.47      | 5.6        | 0.2        | 1.4        | 1.1        | 50       | <0.1       | 0.6        | <0.1       | 39       | 0.27      |
| CAT 59258 | Soil                             | 0.3        | 126.3      | 3.1        | 52       | <0.1       | 17.4       | 15.3       | 359      | 2.96      | 4.5        | 0.4        | 5.1        | 1.8        | 30       | <0.1       | 0.9        | <0.1       | 87       | 0.42      |
| CAT 59259 | Soil                             | 0.3        | 65.0       | 3.5        | 42       | <0.1       | 35.0       | 10.8       | 258      | 2.18      | 4.2        | 0.4        | 2.3        | 1.8        | 24       | <0.1       | 0.3        | <0.1       | 63       | 0.29      |
| CAT 59260 | Soil                             | 0.3        | 75.1       | 1.7        | 41       | <0.1       | 14.1       | 10.8       | 203      | 2.20      | 1.9        | 0.3        | 1.0        | 1.1        | 16       | <0.1       | 0.2        | <0.1       | 72       | 0.26      |
| CAT 59261 | Soil                             | 0.4        | 66.2       | 3.2        | 34       | <0.1       | 26.9       | 10.1       | 223      | 1.78      | 3.2        | 0.6        | 2.7        | 1.8        | 24       | <0.1       | 0.2        | <0.1       | 50       | 0.36      |
| CAT 59263 | Soil                             | 0.5        | 64.8       | 4.6        | 47       | <0.1       | 18.2       | 9.8        | 318      | 2.25      | 4.1        | 1.0        | 3.4        | 3.3        | 29       | <0.1       | 0.3        | <0.1       | 62       | 0.42      |
| CAT 59266 | Soil                             | 0.4        | 44.5       | 5.5        | 47       | <0.1       | 27.8       | 10.2       | 372      | 2.33      | 6.5        | 0.9        | 1.9        | 4.1        | 29       | <0.1       | 0.5        | 0.1        | 57       | 0.43      |





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**Project:** CAT  
**Report Date:** September 15, 2009

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## CERTIFICATE OF ANALYSIS

VAN09003942.1

|           | Method<br>Analyte<br>Unit<br>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 59172 | Soil                             | 37    | 74    | 1.05  | 370   | 0.157 | 1     | 1.77  | 0.016 | 0.38  | 0.2   | 0.05  | 5.0   | 0.3   | <0.05 | 6     | <0.5  |
| CAT 59173 | Soil                             | 39    | 52    | 0.83  | 288   | 0.142 | <1    | 1.62  | 0.019 | 0.30  | 0.1   | 0.04  | 4.4   | 0.3   | <0.05 | 5     | 0.6   |
| CAT 59176 | Soil                             | 5     | 229   | 1.77  | 242   | 0.114 | <1    | 1.75  | 0.015 | 0.11  | <0.1  | 0.02  | 4.6   | <0.1  | <0.05 | 5     | <0.5  |
| CAT 59177 | Soil                             | 8     | 48    | 0.84  | 281   | 0.101 | 2     | 1.45  | 0.019 | 0.11  | 0.1   | 0.02  | 4.6   | <0.1  | <0.05 | 4     | <0.5  |
| CAT 59178 | Soil                             | 9     | 49    | 0.73  | 269   | 0.082 | 2     | 1.43  | 0.017 | 0.10  | 0.1   | 0.02  | 4.6   | <0.1  | <0.05 | 4     | <0.5  |
| CAT 59185 | Soil                             | 13    | 36    | 0.74  | 392   | 0.118 | 4     | 1.47  | 0.021 | 0.13  | 0.2   | 0.05  | 3.7   | <0.1  | <0.05 | 4     | <0.5  |
| CAT 59187 | Soil                             | 8     | 27    | 0.52  | 180   | 0.104 | <1    | 1.31  | 0.014 | 0.10  | 0.1   | 0.03  | 2.1   | <0.1  | <0.05 | 5     | <0.5  |
| CAT 59190 | Soil                             | 8     | 65    | 0.95  | 298   | 0.113 | <1    | 1.71  | 0.015 | 0.08  | 0.1   | 0.03  | 3.4   | <0.1  | <0.05 | 5     | <0.5  |
| CAT 59191 | Soil                             | 8     | 63    | 0.81  | 321   | 0.109 | <1    | 1.54  | 0.017 | 0.09  | 0.1   | 0.02  | 3.4   | <0.1  | <0.05 | 5     | <0.5  |
| CAT 59192 | Soil                             | 7     | 35    | 0.64  | 178   | 0.105 | 1     | 1.32  | 0.018 | 0.08  | 0.2   | 0.03  | 2.5   | <0.1  | <0.05 | 4     | <0.5  |
| CAT 59193 | Soil                             | 6     | 76    | 1.25  | 355   | 0.128 | 2     | 1.63  | 0.023 | 0.25  | 0.1   | 0.03  | 3.4   | 0.1   | <0.05 | 4     | <0.5  |
| CAT 59194 | Soil                             | 7     | 40    | 0.91  | 227   | 0.132 | 1     | 1.73  | 0.016 | 0.24  | <0.1  | 0.01  | 4.1   | <0.1  | <0.05 | 5     | <0.5  |
| CAT 59195 | Soil                             | 9     | 39    | 0.66  | 183   | 0.109 | 2     | 1.38  | 0.016 | 0.16  | 0.1   | <0.01 | 3.2   | <0.1  | <0.05 | 4     | <0.5  |
| CAT 59196 | Soil                             | 9     | 53    | 0.80  | 222   | 0.108 | <1    | 1.37  | 0.021 | 0.22  | 0.1   | 0.03  | 4.1   | <0.1  | <0.05 | 4     | <0.5  |
| CAT 59197 | Soil                             | 5     | 40    | 1.23  | 347   | 0.190 | <1    | 2.07  | 0.013 | 0.61  | <0.1  | 0.02  | 5.3   | <0.1  | <0.05 | 8     | <0.5  |
| CAT 59198 | Soil                             | 5     | 31    | 0.63  | 126   | 0.109 | 2     | 1.05  | 0.014 | 0.11  | 0.1   | <0.01 | 2.3   | <0.1  | <0.05 | 5     | <0.5  |
| CAT 59199 | Soil                             | 9     | 50    | 0.80  | 309   | 0.099 | 3     | 1.40  | 0.018 | 0.14  | 0.1   | 0.03  | 3.8   | 0.1   | <0.05 | 4     | <0.5  |
| CAT 59201 | Soil                             | 8     | 27    | 0.71  | 276   | 0.102 | 1     | 1.22  | 0.017 | 0.11  | 0.1   | 0.03  | 2.7   | <0.1  | <0.05 | 4     | <0.5  |
| CAT 59202 | Soil                             | 8     | 33    | 0.81  | 289   | 0.131 | 1     | 1.27  | 0.019 | 0.27  | 0.3   | 0.04  | 2.5   | 0.1   | <0.05 | 4     | <0.5  |
| CAT 59203 | Soil                             | 7     | 51    | 0.75  | 315   | 0.154 | <1    | 1.20  | 0.021 | 0.23  | 0.2   | 0.03  | 2.4   | 0.1   | <0.05 | 5     | <0.5  |
| CAT 59204 | Soil                             | 5     | 61    | 1.02  | 199   | 0.120 | 2     | 1.31  | 0.021 | 0.10  | 0.2   | 0.03  | 2.9   | <0.1  | <0.05 | 4     | <0.5  |
| CAT 59205 | Soil                             | 4     | 19    | 0.24  | 140   | 0.049 | 2     | 0.68  | 0.018 | 0.06  | <0.1  | 0.02  | 1.6   | <0.1  | <0.05 | 2     | <0.5  |
| CAT 59206 | Soil                             | 3     | 62    | 0.80  | 179   | 0.058 | 2     | 1.02  | 0.019 | 0.04  | 0.1   | 0.02  | 3.2   | <0.1  | <0.05 | 3     | <0.5  |
| CAT 59255 | Soil                             | 3     | 30    | 0.33  | 412   | 0.055 | <1    | 0.99  | 0.016 | 0.03  | 0.1   | <0.01 | 2.1   | <0.1  | <0.05 | 2     | <0.5  |
| CAT 59258 | Soil                             | 6     | 18    | 0.75  | 425   | 0.058 | 1     | 1.52  | 0.024 | 0.06  | <0.1  | 0.01  | 6.3   | <0.1  | <0.05 | 4     | <0.5  |
| CAT 59259 | Soil                             | 5     | 77    | 0.94  | 280   | 0.118 | <1    | 1.41  | 0.014 | 0.22  | <0.1  | <0.01 | 2.2   | <0.1  | <0.05 | 5     | 0.6   |
| CAT 59260 | Soil                             | 3     | 29    | 0.87  | 364   | 0.159 | <1    | 1.40  | 0.013 | 0.49  | <0.1  | 0.01  | 2.7   | 0.2   | <0.05 | 4     | <0.5  |
| CAT 59261 | Soil                             | 7     | 60    | 0.76  | 370   | 0.092 | <1    | 1.21  | 0.016 | 0.10  | <0.1  | <0.01 | 2.6   | <0.1  | <0.05 | 3     | <0.5  |
| CAT 59263 | Soil                             | 13    | 38    | 0.66  | 389   | 0.099 | <1    | 1.42  | 0.016 | 0.12  | 0.1   | 0.03  | 3.7   | <0.1  | <0.05 | 4     | 0.5   |
| CAT 59266 | Soil                             | 17    | 46    | 0.71  | 315   | 0.077 | 1     | 1.30  | 0.023 | 0.09  | 0.1   | 0.02  | 3.8   | <0.1  | <0.05 | 4     | <0.5  |



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Project: CAT  
Report Date: September 15, 2009

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## CERTIFICATE OF ANALYSIS

VAN09003942.1

|           | 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 59267 | Soil   |         | 0.6  | 55.0  | 4.6   | 49    | <0.1  | 21.1  | 11.5  | 250   | 2.44  | 6.6   | 1.0   | 4.5   | 3.5   | 28    | <0.1  | 0.4   | 0.1   | 57    | 0.43  | 0.067 |    |      |
| CAT 59268 | Soil   |         | 0.7  | 42.1  | 4.6   | 45    | <0.1  | 45.9  | 13.8  | 249   | 2.60  | 5.2   | 0.7   | 2.2   | 2.8   | 25    | <0.1  | 0.4   | 0.1   | 69    | 0.36  | 0.043 |    |      |
| CAT 59269 | Soil   |         | 0.2  | 41.7  | 2.4   | 67    | <0.1  | 14.5  | 16.2  | 426   | 3.36  | 1.8   | 0.3   | 0.5   | 1.4   | 21    | <0.1  | 0.2   | <0.1  | 110   | 0.52  | 0.099 |    |      |
| CAT 59270 | Soil   |         | 0.2  | 81.9  | 1.5   | 32    | <0.1  | 144.4 | 16.3  | 154   | 1.79  | 1.6   | 0.3   | 1.3   | 1.1   | 22    | <0.1  | <0.1  | <0.1  | 50    | 0.44  | 0.065 |    |      |
| CAT 59271 | Soil   |         | 0.5  | 28.9  | 3.3   | 44    | <0.1  | 73.8  | 13.0  | 218   | 2.46  | 4.2   | 0.8   | 1.8   | 2.7   | 25    | <0.1  | 0.2   | 0.1   | 61    | 0.44  | 0.068 |    |      |
| CAT 59272 | Soil   |         | 0.4  | 27.6  | 3.4   | 44    | <0.1  | 66.2  | 12.3  | 202   | 2.35  | 3.9   | 0.8   | 3.4   | 2.7   | 24    | <0.1  | 0.2   | 0.1   | 60    | 0.41  | 0.064 |    |      |
| CAT 59273 | Soil   |         | 0.5  | 27.9  | 4.0   | 38    | <0.1  | 19.2  | 9.7   | 217   | 2.07  | 5.3   | 0.6   | 1.6   | 2.5   | 19    | <0.1  | 0.3   | <0.1  | 57    | 0.34  | 0.061 |    |      |
| CAT 59274 | Soil   |         | 0.2  | 77.5  | 1.5   | 38    | <0.1  | 24.0  | 15.0  | 294   | 2.24  | 1.8   | 0.4   | 1.4   | 1.4   | 16    | <0.1  | 0.1   | <0.1  | 71    | 0.38  | 0.076 |    |      |
| CAT 59276 | Soil   |         | 0.3  | 130.2 | 2.6   | 47    | <0.1  | 23.6  | 13.9  | 259   | 2.20  | 2.5   | 0.5   | 7.9   | 1.8   | 22    | <0.1  | 0.5   | <0.1  | 66    | 0.54  | 0.071 |    |      |
| CAT 59278 | Soil   |         | 0.3  | 39.1  | 4.5   | 55    | <0.1  | 18.7  | 14.7  | 491   | 2.93  | 4.0   | 0.4   | 1.6   | 2.0   | 30    | <0.1  | 0.4   | <0.1  | 82    | 0.72  | 0.073 |    |      |
| CAT 59279 | Soil   |         | 0.4  | 27.9  | 3.9   | 63    | <0.1  | 31.2  | 15.8  | 588   | 3.33  | 2.7   | 0.6   | 2.0   | 2.4   | 35    | <0.1  | 0.8   | <0.1  | 65    | 2.63  | 0.090 |    |      |
| CAT 59280 | Soil   |         | 0.7  | 70.5  | 5.8   | 78    | <0.1  | 24.7  | 16.8  | 748   | 3.62  | 4.4   | 0.4   | 3.9   | 1.9   | 35    | <0.1  | 0.4   | <0.1  | 86    | 1.05  | 0.079 |    |      |
| CAT 59281 | Soil   |         | 0.3  | 272.9 | 5.3   | 71    | <0.1  | 13.8  | 15.9  | 289   | 3.01  | 4.4   | 0.7   | 3.9   | 2.5   | 14    | <0.1  | 0.7   | <0.1  | 83    | 0.51  | 0.113 |    |      |
| CAT 59282 | Soil   |         | 0.2  | 80.4  | 2.3   | 27    | <0.1  | 12.9  | 8.3   | 117   | 1.49  | 3.0   | 0.2   | 1.1   | 1.3   | 9     | <0.1  | 0.8   | <0.1  | 46    | 0.25  | 0.038 |    |      |
| CAT 59283 | Soil   |         | 0.3  | 76.2  | 2.5   | 27    | <0.1  | 12.8  | 8.2   | 122   | 1.52  | 3.1   | 0.3   | 1.7   | 1.3   | 10    | <0.1  | 0.9   | <0.1  | 47    | 0.27  | 0.039 |    |      |
| CAT 59284 | Soil   |         | 0.4  | 79.7  | 4.0   | 44    | <0.1  | 34.8  | 11.3  | 359   | 2.03  | 5.5   | 0.4   | 6.9   | 2.2   | 41    | <0.1  | 0.5   | <0.1  | 61    | 1.44  | 0.071 |    |      |
| CAT 59285 | Soil   |         | 0.5  | 77.7  | 6.0   | 50    | <0.1  | 27.1  | 13.5  | 271   | 2.63  | 7.7   | 0.5   | 2.0   | 2.3   | 29    | <0.1  | 0.9   | <0.1  | 77    | 0.45  | 0.046 |    |      |
| CAT 59286 | Soil   |         | 0.4  | 79.2  | 4.8   | 40    | <0.1  | 22.0  | 13.0  | 295   | 2.05  | 5.8   | 0.4   | 4.8   | 2.5   | 26    | <0.1  | 0.6   | <0.1  | 53    | 0.51  | 0.064 |    |      |
| CAT 59287 | Soil   |         | 0.3  | 126.9 | 1.7   | 21    | 0.1   | 49.2  | 29.4  | 172   | 1.57  | 2.3   | 0.2   | 7.7   | 0.5   | 18    | <0.1  | 0.5   | <0.1  | 36    | 0.48  | 0.022 |    |      |
| CAT 59381 | Soil   |         | 1.4  | 36.0  | 14.6  | 85    | <0.1  | 51.5  | 16.1  | 504   | 4.41  | 6.8   | 0.7   | 1.0   | 5.6   | 23    | 0.1   | 0.4   | 0.2   | 86    | 0.29  | 0.053 |    |      |
| CAT 59382 | Soil   |         | 0.7  | 33.1  | 10.4  | 47    | <0.1  | 30.5  | 8.6   | 276   | 2.26  | 6.7   | 0.8   | 2.4   | 4.9   | 23    | <0.1  | 0.4   | 0.1   | 54    | 0.29  | 0.053 |    |      |
| CAT 59386 | Soil   |         | 0.6  | 53.2  | 16.5  | 76    | <0.1  | 139.9 | 26.8  | 530   | 4.23  | 6.7   | 1.4   | 2.4   | 8.2   | 33    | <0.1  | 0.3   | 0.2   | 89    | 0.40  | 0.067 |    |      |
| CAT 59390 | Soil   |         | 1.5  | 58.8  | 19.7  | 129   | <0.1  | 91.0  | 27.1  | 732   | 5.72  | 4.2   | 1.4   | 2.6   | 14.4  | 23    | 0.1   | 0.2   | 0.2   | 96    | 0.22  | 0.043 |    |      |
| CAT 59391 | Soil   |         | 1.0  | 28.9  | 10.2  | 76    | <0.1  | 45.8  | 17.1  | 382   | 3.90  | 6.3   | 1.2   | 2.4   | 11.0  | 19    | <0.1  | 0.3   | 0.1   | 72    | 0.19  | 0.033 |    |      |
| CAT 59392 | Soil   |         | 1.1  | 22.1  | 10.7  | 60    | <0.1  | 30.3  | 11.1  | 211   | 3.01  | 7.2   | 1.0   | 2.1   | 7.3   | 16    | <0.1  | 0.3   | 0.2   | 66    | 0.19  | 0.041 |    |      |
| CAT 59394 | Soil   |         | 0.7  | 44.5  | 14.6  | 106   | <0.1  | 56.1  | 18.7  | 555   | 4.60  | 2.3   | 1.2   | 3.1   | 14.6  | 25    | <0.1  | 0.2   | 0.1   | 72    | 0.29  | 0.032 |    |      |
| CAT 59395 | Soil   |         | 0.9  | 24.2  | 23.8  | 79    | <0.1  | 36.0  | 13.2  | 443   | 3.75  | 6.1   | 1.1   | 1.4   | 8.7   | 20    | <0.1  | 0.4   | 0.2   | 76    | 0.23  | 0.028 |    |      |
| CAT 59396 | Soil   |         | 1.4  | 60.6  | 17.1  | 154   | <0.1  | 37.8  | 16.0  | 746   | 4.55  | 3.3   | 0.9   | <0.5  | 7.3   | 25    | 0.2   | 0.1   | 0.2   | 106   | 0.42  | 0.130 |    |      |
| CAT 59397 | Soil   |         | 1.5  | 40.1  | 20.6  | 107   | <0.1  | 37.1  | 12.4  | 407   | 3.62  | 5.1   | 1.3   | 2.2   | 9.2   | 24    | 0.3   | 0.3   | 0.2   | 85    | 0.21  | 0.046 |    |      |
| CAT 59398 | Soil   |         | 3.0  | 38.8  | 14.7  | 99    | <0.1  | 38.1  | 10.7  | 341   | 3.54  | 5.9   | 0.9   | 27.0  | 7.6   | 23    | 0.2   | 0.2   | 0.1   | 81    | 0.20  | 0.047 |    |      |



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**Project:** CAT  
**Report Date:** September 15, 2009

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## CERTIFICATE OF ANALYSIS

VAN09003942.1

|           | Method<br>Analyte<br>Unit<br>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 59267 | Soil                             | 12    | 29    | 0.64  | 257   | 0.078 | 1     | 1.39  | 0.021 | 0.07  | 0.1   | 0.03  | 4.4   | <0.1  | <0.05 | 4     | <0.5  |
| CAT 59268 | Soil                             | 9     | 84    | 0.98  | 315   | 0.105 | 1     | 1.61  | 0.017 | 0.14  | <0.1  | 0.01  | 3.5   | 0.1   | <0.05 | 5     | <0.5  |
| CAT 59269 | Soil                             | 6     | 45    | 2.00  | 525   | 0.200 | <1    | 2.51  | 0.019 | 0.58  | <0.1  | <0.01 | 5.8   | 0.2   | <0.05 | 7     | <0.5  |
| CAT 59270 | Soil                             | 7     | 216   | 1.63  | 178   | 0.123 | <1    | 1.58  | 0.017 | 0.18  | <0.1  | <0.01 | 1.9   | 0.1   | <0.05 | 4     | <0.5  |
| CAT 59271 | Soil                             | 10    | 135   | 1.33  | 286   | 0.128 | 2     | 1.69  | 0.019 | 0.36  | 0.1   | <0.01 | 3.4   | 0.2   | <0.05 | 5     | 0.6   |
| CAT 59272 | Soil                             | 9     | 122   | 1.22  | 265   | 0.120 | <1    | 1.54  | 0.017 | 0.31  | <0.1  | <0.01 | 3.3   | 0.2   | <0.05 | 5     | <0.5  |
| CAT 59273 | Soil                             | 7     | 42    | 0.68  | 156   | 0.083 | 1     | 1.33  | 0.017 | 0.06  | 0.1   | 0.02  | 2.8   | <0.1  | <0.05 | 4     | <0.5  |
| CAT 59274 | Soil                             | 5     | 84    | 1.20  | 271   | 0.140 | <1    | 1.49  | 0.015 | 0.36  | <0.1  | <0.01 | 2.9   | <0.1  | <0.05 | 4     | <0.5  |
| CAT 59276 | Soil                             | 6     | 41    | 0.90  | 242   | 0.104 | 1     | 1.51  | 0.025 | 0.17  | <0.1  | 0.01  | 4.4   | <0.1  | <0.05 | 4     | <0.5  |
| CAT 59278 | Soil                             | 9     | 53    | 1.45  | 195   | 0.080 | 2     | 1.55  | 0.031 | 0.14  | 0.1   | 0.02  | 5.9   | <0.1  | <0.05 | 5     | <0.5  |
| CAT 59279 | Soil                             | 10    | 52    | 0.97  | 261   | 0.051 | 3     | 1.51  | 0.018 | 0.37  | 0.1   | 0.01  | 8.4   | <0.1  | <0.05 | 4     | <0.5  |
| CAT 59280 | Soil                             | 7     | 27    | 1.53  | 284   | 0.168 | 2     | 2.06  | 0.022 | 0.56  | <0.1  | 0.02  | 5.9   | 0.2   | <0.05 | 6     | <0.5  |
| CAT 59281 | Soil                             | 9     | 15    | 1.13  | 193   | 0.115 | <1    | 1.40  | 0.022 | 0.13  | <0.1  | <0.01 | 5.4   | <0.1  | <0.05 | 6     | <0.5  |
| CAT 59282 | Soil                             | 5     | 25    | 0.59  | 83    | 0.069 | <1    | 0.93  | 0.015 | 0.04  | <0.1  | <0.01 | 2.3   | <0.1  | <0.05 | 3     | <0.5  |
| CAT 59283 | Soil                             | 5     | 25    | 0.60  | 85    | 0.068 | 1     | 0.99  | 0.016 | 0.04  | <0.1  | <0.01 | 2.4   | <0.1  | <0.05 | 3     | <0.5  |
| CAT 59284 | Soil                             | 8     | 62    | 0.97  | 297   | 0.105 | 1     | 1.21  | 0.028 | 0.06  | 0.2   | 0.01  | 3.2   | <0.1  | <0.05 | 4     | <0.5  |
| CAT 59285 | Soil                             | 7     | 36    | 0.91  | 183   | 0.109 | 1     | 1.57  | 0.022 | 0.08  | <0.1  | <0.01 | 3.8   | <0.1  | <0.05 | 5     | <0.5  |
| CAT 59286 | Soil                             | 9     | 32    | 0.57  | 154   | 0.078 | 1     | 1.03  | 0.026 | 0.08  | 0.2   | 0.02  | 4.0   | <0.1  | <0.05 | 3     | <0.5  |
| CAT 59287 | Soil                             | 2     | 93    | 1.31  | 74    | 0.036 | 1     | 1.20  | 0.019 | 0.04  | <0.1  | 0.02  | 3.6   | <0.1  | <0.05 | 2     | <0.5  |
| CAT 59381 | Soil                             | 14    | 64    | 1.03  | 298   | 0.166 | 1     | 2.12  | 0.013 | 0.51  | <0.1  | 0.01  | 4.4   | 0.2   | <0.05 | 8     | <0.5  |
| CAT 59382 | Soil                             | 16    | 34    | 0.62  | 328   | 0.094 | 2     | 1.35  | 0.014 | 0.10  | 0.2   | 0.02  | 3.0   | <0.1  | <0.05 | 4     | <0.5  |
| CAT 59386 | Soil                             | 28    | 303   | 1.84  | 415   | 0.219 | <1    | 2.93  | 0.013 | 0.62  | <0.1  | 0.02  | 6.1   | 0.4   | <0.05 | 9     | <0.5  |
| CAT 59390 | Soil                             | 41    | 134   | 1.72  | 338   | 0.264 | <1    | 3.47  | 0.014 | 1.14  | <0.1  | <0.01 | 7.1   | 0.6   | <0.05 | 11    | <0.5  |
| CAT 59391 | Soil                             | 31    | 63    | 0.94  | 268   | 0.159 | 1     | 2.28  | 0.015 | 0.51  | 0.1   | 0.02  | 4.3   | 0.3   | <0.05 | 7     | <0.5  |
| CAT 59392 | Soil                             | 22    | 42    | 0.66  | 185   | 0.099 | 1     | 1.94  | 0.014 | 0.17  | 0.1   | 0.01  | 3.0   | 0.2   | <0.05 | 7     | <0.5  |
| CAT 59394 | Soil                             | 37    | 88    | 1.12  | 248   | 0.230 | <1    | 2.37  | 0.014 | 0.79  | <0.1  | 0.02  | 5.5   | 0.5   | <0.05 | 9     | <0.5  |
| CAT 59395 | Soil                             | 24    | 63    | 0.84  | 260   | 0.153 | <1    | 2.15  | 0.011 | 0.40  | 0.1   | 0.02  | 5.3   | 0.3   | <0.05 | 7     | <0.5  |
| CAT 59396 | Soil                             | 23    | 68    | 1.56  | 378   | 0.202 | 2     | 2.88  | 0.012 | 1.02  | 0.1   | 0.02  | 5.9   | 0.5   | <0.05 | 11    | 0.6   |
| CAT 59397 | Soil                             | 26    | 52    | 0.85  | 368   | 0.181 | 1     | 1.99  | 0.011 | 0.43  | 0.1   | 0.01  | 4.8   | 0.4   | <0.05 | 7     | 0.6   |
| CAT 59398 | Soil                             | 19    | 52    | 0.74  | 304   | 0.151 | <1    | 1.82  | 0.010 | 0.32  | 0.1   | 0.01  | 4.7   | 0.3   | <0.05 | 7     | <0.5  |



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Project: CAT  
Report Date: September 15, 2009

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## CERTIFICATE OF ANALYSIS

VAN09003942.1

|           | Method<br>Analyte<br>Unit<br>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<br>0.1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>1 | %<br>0.01 | ppm<br>0.5 | ppm<br>0.1 | ppb<br>0.5 | ppm<br>0.1 | ppm<br>1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>2 | %<br>0.01 |
| CAT 59399 | Soil                             | 5.1        | 40.0       | 33.2       | 91       | 0.2        | 37.0       | 9.7        | 252      | 3.13      | 9.2        | 0.8        | 77.9       | 4.2        | 21       | 0.3        | 0.4        | 0.2        | 88       | 0.22      |
| CAT 59401 | Soil                             | 1.3        | 32.0       | 12.5       | 82       | 0.1        | 118.0      | 14.8       | 355      | 3.32      | 7.8        | 0.8        | 5.3        | 6.1        | 22       | 0.1        | 0.3        | 0.1        | 68       | 0.32      |
| CAT 59404 | Soil                             | 1.0        | 46.9       | 15.1       | 108      | 0.1        | 90.5       | 16.1       | 552      | 3.50      | 5.0        | 1.1        | 1.5        | 7.1        | 37       | 0.2        | 0.2        | 0.2        | 86       | 0.57      |
| CAT 59405 | Soil                             | 0.7        | 37.8       | 15.6       | 81       | <0.1       | 39.6       | 13.5       | 373      | 3.47      | 5.1        | 1.0        | 1.7        | 6.7        | 21       | 0.1        | 0.3        | 0.1        | 79       | 0.30      |
| CAT 59406 | Soil                             | 0.7        | 31.6       | 11.8       | 72       | <0.1       | 37.8       | 14.3       | 388      | 3.37      | 6.4        | 1.1        | 10.7       | 9.1        | 26       | 0.1        | 0.3        | 0.2        | 72       | 0.35      |
| CAT 59407 | Soil                             | 1.4        | 36.4       | 13.3       | 83       | 0.1        | 39.1       | 12.9       | 353      | 3.36      | 5.4        | 1.2        | 21.2       | 7.1        | 31       | 0.1        | 0.3        | 0.2        | 82       | 0.47      |
| CAT 59828 | Soil                             | 1.7        | 85.8       | 7.7        | 82       | 0.2        | 65.9       | 15.7       | 805      | 3.31      | 14.2       | 1.1        | 3.6        | 3.6        | 52       | 0.2        | 1.6        | 0.2        | 81       | 1.46      |
| CAT 59829 | Soil                             | 1.3        | 73.8       | 8.5        | 136      | 0.3        | 113.9      | 24.8       | 543      | 4.48      | 11.1       | 1.2        | 6.4        | 4.9        | 66       | 0.3        | 2.0        | 0.1        | 126      | 2.67      |
| CAT 59830 | Soil                             | 0.9        | 71.0       | 6.4        | 82       | 0.2        | 125.3      | 18.1       | 465      | 3.03      | 7.7        | 1.1        | 5.6        | 2.8        | 77       | 0.3        | 0.5        | 0.1        | 78       | 2.21      |
| CAT 59831 | Soil                             | 2.4        | 102.1      | 5.6        | 195      | 0.4        | 102.2      | 19.8       | 681      | 3.58      | 7.1        | 1.6        | 6.3        | 4.3        | 123      | 1.2        | 0.6        | 0.1        | 102      | 3.76      |
| CAT 59832 | Soil                             | 2.8        | 93.0       | 9.9        | 87       | 0.3        | 55.6       | 17.4       | 1052     | 3.78      | 9.9        | 1.1        | 4.4        | 8.7        | 48       | 0.1        | 0.5        | 0.2        | 95       | 1.57      |
| CAT 59833 | Soil                             | 1.2        | 75.6       | 7.4        | 106      | 0.2        | 98.6       | 26.0       | 912      | 4.03      | 11.4       | 0.7        | 5.1        | 4.5        | 28       | 0.2        | 0.6        | 0.2        | 106      | 0.62      |
| CAT 60947 | Soil                             | 2.1        | 51.4       | 6.8        | 100      | 0.1        | 49.6       | 11.8       | 361      | 3.07      | 29.8       | 2.2        | 2.5        | 9.8        | 27       | 0.5        | 1.0        | 0.4        | 50       | 0.33      |
| CAT 60948 | Soil                             | 2.2        | 42.3       | 9.3        | 75       | 0.2        | 35.0       | 9.2        | 394      | 2.99      | 17.0       | 1.4        | 0.9        | 6.1        | 35       | 0.2        | 2.9        | 0.2        | 62       | 0.37      |
| CAT 60949 | Soil                             | 0.8        | 32.5       | 9.9        | 62       | <0.1       | 32.5       | 10.4       | 399      | 2.57      | 10.2       | 1.5        | 3.5        | 11.4       | 34       | <0.1       | 0.6        | 0.2        | 59       | 0.55      |
| CAT 60953 | Soil                             | 1.1        | 45.9       | 4.9        | 120      | <0.1       | 37.2       | 13.3       | 625      | 3.58      | 12.9       | 1.6        | 1.0        | 8.7        | 22       | 0.2        | 0.5        | 0.4        | 68       | 0.34      |
| CAT 60967 | Soil                             | 1.8        | 66.2       | 5.9        | 126      | 0.1        | 59.8       | 14.2       | 683      | 3.60      | 14.4       | 1.4        | 1.5        | 4.4        | 28       | 0.4        | 0.8        | <0.1       | 110      | 0.52      |
| CAT 60968 | Soil                             | 1.4        | 43.5       | 7.2        | 107      | 0.1        | 34.2       | 10.6       | 454      | 2.69      | 22.6       | 1.2        | 4.5        | 3.9        | 30       | 0.5        | 1.7        | 0.1        | 68       | 0.40      |
| CAT 60972 | Soil                             | 1.3        | 66.1       | 7.6        | 102      | 0.2        | 53.3       | 12.8       | 500      | 2.75      | 21.8       | 1.8        | 4.7        | 4.2        | 123      | 0.6        | 1.9        | 0.1        | 57       | 4.46      |
| CAT 60973 | Soil                             | 1.6        | 66.3       | 9.7        | 108      | 0.3        | 61.8       | 16.3       | 1046     | 3.46      | 39.2       | 1.0        | 8.6        | 3.4        | 49       | 0.5        | 3.6        | 0.2        | 71       | 1.09      |
| CAT 60974 | Soil                             | 1.6        | 81.6       | 9.0        | 84       | <0.1       | 58.2       | 20.5       | 1264     | 4.11      | 15.7       | 0.7        | 4.3        | 3.9        | 44       | 0.2        | 3.3        | 0.2        | 84       | 0.92      |
| CAT 60975 | Soil                             | 0.9        | 35.5       | 6.9        | 56       | 0.1        | 32.5       | 11.4       | 495      | 2.53      | 12.5       | 0.8        | 2.6        | 3.6        | 117      | 0.1        | 1.0        | 0.1        | 59       | 3.83      |
| CAT 61031 | Soil                             | 0.2        | 97.9       | 1.8        | 54       | <0.1       | 23.8       | 16.5       | 387      | 2.93      | 1.8        | 0.6        | 0.7        | 1.4        | 24       | <0.1       | 0.2        | <0.1       | 93       | 0.60      |
| CAT 61033 | Soil                             | 0.5        | 46.3       | 9.2        | 56       | <0.1       | 19.2       | 12.5       | 392      | 2.83      | 5.4        | 1.0        | 4.3        | 2.6        | 34       | 0.1        | 0.4        | <0.1       | 74       | 0.67      |
| CAT 61034 | Soil                             | 0.5        | 55.1       | 5.3        | 52       | <0.1       | 21.9       | 12.1       | 489      | 2.78      | 6.1        | 0.6        | 2.9        | 2.7        | 34       | 0.1        | 0.5        | <0.1       | 76       | 0.73      |
| CAT 61035 | Soil                             | 0.4        | 59.7       | 4.6        | 53       | <0.1       | 21.3       | 14.3       | 615      | 2.82      | 5.2        | 0.4        | 3.2        | 2.2        | 35       | 0.1        | 0.4        | <0.1       | 83       | 1.37      |
| CAT 61036 | Soil                             | 0.5        | 24.8       | 4.8        | 61       | <0.1       | 23.5       | 15.9       | 405      | 3.20      | 6.2        | 0.5        | 2.7        | 2.7        | 33       | <0.1       | 0.3        | <0.1       | 78       | 0.50      |
| CAT 61037 | Soil                             | 0.6        | 46.8       | 6.4        | 55       | <0.1       | 29.9       | 12.0       | 387      | 2.65      | 9.7        | 0.7        | 8.5        | 3.7        | 40       | <0.1       | 0.5        | <0.1       | 67       | 0.72      |
| CAT 61038 | Soil                             | 0.5        | 89.7       | 5.2        | 96       | <0.1       | 36.4       | 14.2       | 852      | 3.72      | 2.8        | 1.0        | 4.0        | 4.0        | 54       | 0.2        | 0.5        | <0.1       | 66       | 0.76      |
| CAT 61039 | Soil                             | 0.3        | 110.1      | 4.0        | 46       | <0.1       | 29.1       | 13.6       | 379      | 2.19      | 5.1        | 0.4        | 4.8        | 2.0        | 37       | <0.1       | 0.4        | <0.1       | 65       | 0.61      |



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**Project:** CAT  
**Report Date:** September 15, 2009

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## CERTIFICATE OF ANALYSIS

VAN09003942.1

|           | Method<br>Analyte<br>Unit<br>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 59399 | Soil                             | 13    | 42    | 0.51  | 361   | 0.085 | 2     | 1.79  | 0.011 | 0.12  | <0.1  | 0.02  | 4.1   | 0.1   | <0.05 | 6     | 1.0   |
| CAT 59401 | Soil                             | 21    | 119   | 1.02  | 369   | 0.083 | 1     | 1.63  | 0.009 | 0.21  | 0.2   | 0.02  | 4.5   | 0.2   | <0.05 | 6     | 0.8   |
| CAT 59404 | Soil                             | 20    | 94    | 1.31  | 424   | 0.148 | 2     | 1.83  | 0.017 | 0.35  | 0.1   | 0.02  | 5.7   | 0.3   | <0.05 | 7     | 0.5   |
| CAT 59405 | Soil                             | 22    | 60    | 0.87  | 290   | 0.173 | 2     | 1.92  | 0.014 | 0.32  | 0.1   | <0.01 | 4.7   | 0.3   | <0.05 | 7     | <0.5  |
| CAT 59406 | Soil                             | 27    | 53    | 0.83  | 325   | 0.163 | 2     | 2.09  | 0.016 | 0.25  | 0.2   | 0.02  | 4.7   | 0.2   | <0.05 | 7     | <0.5  |
| CAT 59407 | Soil                             | 21    | 54    | 0.78  | 370   | 0.158 | 2     | 1.91  | 0.014 | 0.26  | 0.2   | 0.02  | 4.7   | 0.2   | <0.05 | 7     | <0.5  |
| CAT 59828 | Soil                             | 15    | 66    | 0.84  | 389   | 0.099 | 3     | 1.50  | 0.017 | 0.39  | <0.1  | 0.05  | 6.2   | 0.2   | <0.05 | 5     | 0.5   |
| CAT 59829 | Soil                             | 20    | 132   | 1.50  | 1318  | 0.180 | 2     | 2.21  | 0.012 | 0.95  | 0.2   | 0.03  | 4.8   | 0.5   | <0.05 | 7     | 1.0   |
| CAT 59830 | Soil                             | 13    | 92    | 1.26  | 873   | 0.124 | 3     | 1.73  | 0.046 | 0.46  | 0.1   | 0.03  | 4.1   | 0.2   | <0.05 | 5     | 0.6   |
| CAT 59831 | Soil                             | 16    | 78    | 1.35  | 519   | 0.152 | 2     | 1.68  | 0.023 | 0.61  | 0.2   | 0.03  | 5.4   | 0.3   | <0.05 | 7     | 1.4   |
| CAT 59832 | Soil                             | 25    | 72    | 1.52  | 380   | 0.219 | 1     | 2.15  | 0.013 | 1.21  | 0.1   | 0.03  | 5.5   | 0.4   | 0.06  | 8     | 0.9   |
| CAT 59833 | Soil                             | 17    | 92    | 1.37  | 515   | 0.164 | 2     | 2.09  | 0.017 | 1.02  | 0.2   | 0.03  | 6.1   | 0.3   | <0.05 | 8     | 0.7   |
| CAT 60947 | Soil                             | 21    | 34    | 0.57  | 310   | 0.078 | 2     | 1.35  | 0.010 | 0.47  | 0.1   | <0.01 | 4.7   | 0.3   | <0.05 | 5     | 1.3   |
| CAT 60948 | Soil                             | 17    | 32    | 0.38  | 276   | 0.049 | 1     | 1.11  | 0.014 | 0.19  | 0.2   | 0.01  | 4.2   | 0.1   | <0.05 | 3     | 0.7   |
| CAT 60949 | Soil                             | 17    | 34    | 0.57  | 306   | 0.077 | 2     | 1.41  | 0.028 | 0.10  | 0.2   | 0.02  | 4.9   | <0.1  | <0.05 | 4     | 0.8   |
| CAT 60953 | Soil                             | 17    | 47    | 0.95  | 310   | 0.138 | 1     | 1.95  | 0.011 | 0.95  | 0.2   | 0.01  | 4.5   | 0.5   | <0.05 | 7     | 0.7   |
| CAT 60967 | Soil                             | 21    | 83    | 1.09  | 583   | 0.123 | <1    | 1.96  | 0.012 | 0.69  | 0.1   | 0.02  | 5.6   | 0.3   | <0.05 | 7     | 0.6   |
| CAT 60968 | Soil                             | 13    | 42    | 0.52  | 297   | 0.076 | 2     | 1.20  | 0.016 | 0.20  | 0.2   | 0.03  | 4.2   | 0.1   | <0.05 | 4     | <0.5  |
| CAT 60972 | Soil                             | 14    | 31    | 0.57  | 491   | 0.042 | 3     | 1.03  | 0.019 | 0.13  | 0.2   | 0.04  | 3.8   | 0.2   | <0.05 | 3     | 0.7   |
| CAT 60973 | Soil                             | 14    | 41    | 0.56  | 448   | 0.060 | 4     | 1.35  | 0.022 | 0.24  | 0.2   | 0.05  | 6.2   | 0.2   | <0.05 | 4     | 0.6   |
| CAT 60974 | Soil                             | 16    | 62    | 0.69  | 432   | 0.072 | 4     | 1.54  | 0.020 | 0.29  | 0.1   | 0.03  | 8.1   | 0.2   | <0.05 | 5     | 0.5   |
| CAT 60975 | Soil                             | 13    | 31    | 0.79  | 396   | 0.081 | 4     | 1.18  | 0.036 | 0.11  | 0.2   | 0.02  | 3.8   | <0.1  | <0.05 | 3     | 0.5   |
| CAT 61031 | Soil                             | 6     | 60    | 1.50  | 435   | 0.173 | 1     | 2.03  | 0.029 | 0.78  | <0.1  | 0.01  | 5.5   | 0.2   | <0.05 | 6     | <0.5  |
| CAT 61033 | Soil                             | 10    | 40    | 0.99  | 332   | 0.129 | 2     | 1.77  | 0.023 | 0.25  | 0.1   | 0.03  | 5.0   | 0.1   | <0.05 | 5     | <0.5  |
| CAT 61034 | Soil                             | 12    | 34    | 0.82  | 283   | 0.082 | 3     | 1.47  | 0.027 | 0.22  | 0.3   | 0.04  | 6.1   | <0.1  | <0.05 | 4     | 0.6   |
| CAT 61035 | Soil                             | 8     | 42    | 1.46  | 229   | 0.093 | 2     | 1.61  | 0.026 | 0.24  | <0.1  | 0.02  | 5.8   | 0.1   | <0.05 | 5     | <0.5  |
| CAT 61036 | Soil                             | 9     | 59    | 1.60  | 281   | 0.155 | 1     | 2.24  | 0.020 | 0.35  | 0.1   | <0.01 | 4.3   | 0.2   | <0.05 | 6     | <0.5  |
| CAT 61037 | Soil                             | 15    | 31    | 0.69  | 282   | 0.092 | 3     | 1.38  | 0.030 | 0.10  | 0.1   | 0.06  | 5.1   | <0.1  | <0.05 | 5     | <0.5  |
| CAT 61038 | Soil                             | 11    | 52    | 1.49  | 661   | 0.249 | 1     | 2.10  | 0.015 | 0.43  | <0.1  | 0.02  | 4.3   | 0.2   | <0.05 | 8     | 0.5   |
| CAT 61039 | Soil                             | 8     | 46    | 0.86  | 248   | 0.104 | 2     | 1.34  | 0.028 | 0.14  | <0.1  | 0.02  | 4.2   | <0.1  | <0.05 | 4     | <0.5  |



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Project: CAT

Report Date: September 15, 2009

Page: 1 of 2 Part 1

## QUALITY CONTROL REPORT

VAN09003942.1

| Method<br>Analyte<br>Unit<br>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   | 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  |
| Pulp Duplicates                  |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| CAT 48046                        | Soil | 0.3   | 112.4 | 4.0   | 43    | <0.1  | 30.0  | 11.8  | 232   | 2.21  | 3.8   | 0.4   | 4.5   | 2.0   | 18    | <0.1  | 0.4   | <0.1  | 62    | 0.38  |
| REP CAT 48046                    | QC   | 0.3   | 112.7 | 4.3   | 45    | <0.1  | 30.2  | 12.1  | 244   | 2.30  | 3.9   | 0.4   | 4.8   | 2.0   | 19    | <0.1  | 0.4   | <0.1  | 64    | 0.40  |
| CAT 48082                        | Soil | 0.9   | 27.9  | 8.3   | 66    | 0.1   | 22.3  | 11.4  | 405   | 3.03  | 4.5   | 1.0   | 2.3   | 5.8   | 24    | 0.1   | 0.3   | 0.1   | 61    | 0.42  |
| REP CAT 48082                    | QC   | 1.0   | 26.9  | 8.5   | 66    | 0.1   | 22.2  | 12.2  | 415   | 3.17  | 4.6   | 1.1   | 2.4   | 6.1   | 25    | <0.1  | 0.3   | 0.1   | 65    | 0.43  |
| CAT 52462                        | Soil | 1.3   | 78.7  | 5.5   | 119   | <0.1  | 49.2  | 12.8  | 437   | 3.26  | 6.5   | 1.5   | <0.5  | 4.4   | 18    | 0.3   | 1.4   | 0.1   | 136   | 0.32  |
| REP CAT 52462                    | QC   | 1.2   | 79.3  | 5.6   | 118   | <0.1  | 48.9  | 12.6  | 431   | 3.13  | 6.1   | 1.4   | 4.6   | 4.4   | 17    | 0.3   | 1.4   | 0.1   | 130   | 0.30  |
| CAT 52470                        | Soil | 2.6   | 85.3  | 8.7   | 68    | 0.1   | 35.2  | 10.2  | 457   | 3.08  | 10.7  | 2.1   | 4.5   | 5.8   | 31    | <0.1  | 1.0   | 0.2   | 86    | 0.25  |
| REP CAT 52470                    | QC   | 2.9   | 84.4  | 8.2   | 68    | 0.1   | 33.6  | 9.6   | 445   | 3.03  | 10.1  | 2.0   | 1.7   | 5.6   | 34    | 0.1   | 1.0   | 0.2   | 78    | 0.26  |
| CAT 52516                        | Soil | 2.1   | 48.8  | 6.3   | 64    | 0.1   | 20.1  | 8.3   | 223   | 2.65  | 6.6   | 1.1   | 3.6   | 3.8   | 26    | <0.1  | 0.7   | 0.1   | 74    | 0.20  |
| REP CAT 52516                    | QC   | 2.1   | 48.4  | 6.1   | 63    | 0.1   | 20.9  | 8.3   | 235   | 2.71  | 6.5   | 1.1   | 0.7   | 3.6   | 26    | <0.1  | 0.6   | 0.2   | 77    | 0.21  |
| CAT 52737                        | Soil | 0.6   | 33.6  | 9.7   | 74    | <0.1  | 32.9  | 15.1  | 577   | 3.55  | 8.5   | 1.2   | 2.5   | 11.5  | 33    | <0.1  | 0.4   | <0.1  | 50    | 0.46  |
| REP CAT 52737                    | QC   | 0.7   | 34.9  | 10.1  | 74    | <0.1  | 33.6  | 15.5  | 550   | 3.56  | 8.5   | 1.3   | 2.6   | 11.8  | 33    | <0.1  | 0.3   | 0.1   | 49    | 0.48  |
| CAT 52833                        | Soil | 2.2   | 52.3  | 25.2  | 83    | 0.1   | 43.4  | 14.3  | 675   | 3.89  | 3.0   | 1.2   | 49.8  | 11.7  | 31    | 0.1   | 0.2   | 0.2   | 66    | 0.46  |
| REP CAT 52833                    | QC   | 2.4   | 53.3  | 25.2  | 82    | 0.1   | 44.5  | 14.6  | 708   | 3.82  | 3.1   | 1.3   | 29.5  | 11.0  | 31    | 0.1   | 0.2   | 0.1   | 67    | 0.45  |
| CAT 52902                        | Soil | 0.5   | 83.7  | 4.4   | 42    | <0.1  | 20.6  | 11.6  | 217   | 2.24  | 6.1   | 0.4   | 5.9   | 1.8   | 20    | <0.1  | 0.3   | <0.1  | 62    | 0.33  |
| REP CAT 52902                    | QC   | 0.5   | 84.7  | 4.5   | 39    | <0.1  | 20.6  | 12.1  | 213   | 2.24  | 6.1   | 0.5   | 0.9   | 1.8   | 20    | <0.1  | 0.3   | <0.1  | 61    | 0.32  |
| CAT 59024                        | Soil | 0.7   | 43.8  | 10.6  | 72    | <0.1  | 39.5  | 15.5  | 493   | 3.47  | 12.4  | 1.1   | 5.9   | 11.0  | 43    | <0.1  | 0.4   | 0.1   | 59    | 0.53  |
| REP CAT 59024                    | QC   | 0.5   | 44.6  | 10.6  | 69    | <0.1  | 40.0  | 15.8  | 504   | 3.57  | 12.4  | 1.0   | 3.0   | 10.9  | 42    | <0.1  | 0.5   | 0.1   | 58    | 0.51  |
| CAT 59049                        | Soil | 1.0   | 29.2  | 24.4  | 67    | 0.1   | 39.1  | 12.4  | 453   | 3.54  | 5.0   | 1.2   | 3.0   | 8.0   | 43    | 0.1   | 0.3   | 0.2   | 71    | 0.62  |
| REP CAT 59049                    | QC   | 1.0   | 29.4  | 23.9  | 66    | 0.1   | 39.5  | 12.6  | 466   | 3.64  | 5.2   | 1.2   | 1.3   | 8.0   | 45    | <0.1  | 0.3   | 0.2   | 66    | 0.62  |
| CAT 59062                        | Soil | 1.0   | 38.5  | 10.7  | 76    | <0.1  | 36.0  | 15.0  | 531   | 3.73  | 3.5   | 1.7   | 2.3   | 10.9  | 56    | 0.1   | 0.2   | 0.1   | 59    | 0.70  |
| REP CAT 59062                    | QC   | 0.9   | 35.7  | 10.1  | 73    | <0.1  | 35.4  | 14.2  | 513   | 3.48  | 3.7   | 1.7   | 3.1   | 10.6  | 55    | 0.1   | 0.2   | 0.1   | 52    | 0.69  |
| CAT 59161                        | Soil | 0.9   | 52.2  | 8.4   | 91    | <0.1  | 76.4  | 23.2  | 386   | 4.24  | 5.1   | 0.8   | 258.1 | 11.9  | 23    | <0.1  | 0.3   | 0.1   | 77    | 0.31  |
| REP CAT 59161                    | QC   | 1.0   | 52.0  | 8.7   | 88    | <0.1  | 73.9  | 22.2  | 373   | 4.09  | 4.8   | 0.8   | 54.9  | 11.6  | 23    | <0.1  | 0.3   | 0.1   | 76    | 0.31  |
| CAT 59203                        | Soil | 1.2   | 71.0  | 5.5   | 57    | <0.1  | 24.4  | 11.0  | 455   | 2.55  | 4.2   | 0.5   | 5.6   | 1.9   | 27    | <0.1  | 0.3   | <0.1  | 79    | 0.42  |
| REP CAT 59203                    | QC   | 0.9   | 73.6  | 5.4   | 59    | <0.1  | 25.7  | 11.4  | 424   | 2.42  | 3.7   | 0.5   | 2.3   | 1.8   | 26    | <0.1  | 0.3   | 0.1   | 77    | 0.43  |
| CAT 59276                        | Soil | 0.3   | 130.2 | 2.6   | 47    | <0.1  | 23.6  | 13.9  | 259   | 2.20  | 2.5   | 0.5   | 7.9   | 1.8   | 22    | <0.1  | 0.5   | <0.1  | 66    | 0.54  |
| REP CAT 59276                    | QC   | 0.3   | 130.2 | 2.8   | 47    | <0.1  | 22.6  | 14.4  | 259   | 2.21  | 2.7   | 0.5   | 5.6   | 1.8   | 22    | 0.1   | 0.5   | <0.1  | 70    | 0.55  |



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**Report Date:** September 15, 2009

**Page:** 1 of 2 **Part** 2

## QUALITY CONTROL REPORT

VAN09003942.1

|                 | Method<br>Analyte<br>Unit<br>MDL | 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    | Ti    | S     | Ga    |
|                 |                                  | 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     |
| Pulp Duplicates |                                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| CAT 48046       | Soil                             | 7     | 68    | 0.85  | 302   | 0.106 | <1    | 1.58  | 0.017 | 0.11  | 0.2   | 0.01  | 3.1   | <0.1  | <0.05 | 5     |
| REP CAT 48046   | QC                               | 7     | 69    | 0.88  | 308   | 0.110 | <1    | 1.61  | 0.018 | 0.12  | 0.1   | 0.02  | 3.3   | <0.1  | <0.05 | 5     |
| CAT 48082       | Soil                             | 21    | 36    | 0.75  | 267   | 0.140 | <1    | 1.61  | 0.020 | 0.30  | 0.2   | 0.02  | 4.7   | 0.2   | <0.05 | 6     |
| REP CAT 48082   | QC                               | 21    | 37    | 0.75  | 258   | 0.148 | 1     | 1.69  | 0.019 | 0.31  | 0.2   | 0.02  | 4.8   | 0.2   | <0.05 | 6     |
| CAT 52462       | Soil                             | 16    | 106   | 1.14  | 685   | 0.170 | <1    | 2.09  | 0.012 | 0.73  | <0.1  | 0.01  | 6.1   | 0.3   | <0.05 | 8     |
| REP CAT 52462   | QC                               | 15    | 103   | 1.16  | 678   | 0.163 | <1    | 2.05  | 0.011 | 0.72  | 0.1   | <0.01 | 5.8   | 0.3   | <0.05 | 8     |
| CAT 52470       | Soil                             | 20    | 53    | 0.81  | 474   | 0.106 | 1     | 1.51  | 0.012 | 0.39  | 0.1   | 0.04  | 5.8   | 0.2   | 0.13  | 5     |
| REP CAT 52470   | QC                               | 19    | 51    | 0.78  | 460   | 0.107 | <1    | 1.46  | 0.012 | 0.37  | 0.1   | 0.04  | 5.3   | 0.2   | 0.10  | 5     |
| CAT 52516       | Soil                             | 13    | 43    | 0.57  | 318   | 0.104 | <1    | 1.36  | 0.012 | 0.26  | 0.1   | <0.01 | 3.0   | 0.2   | 0.11  | 5     |
| REP CAT 52516   | QC                               | 13    | 44    | 0.57  | 303   | 0.105 | 1     | 1.34  | 0.013 | 0.26  | <0.1  | 0.01  | 3.0   | 0.2   | 0.07  | 5     |
| CAT 52737       | Soil                             | 40    | 40    | 0.71  | 355   | 0.121 | 1     | 1.80  | 0.013 | 0.54  | 0.1   | 0.03  | 5.2   | 0.3   | <0.05 | 5     |
| REP CAT 52737   | QC                               | 39    | 41    | 0.73  | 338   | 0.123 | 1     | 1.86  | 0.014 | 0.52  | <0.1  | 0.03  | 5.2   | 0.3   | <0.05 | 6     |
| CAT 52833       | Soil                             | 36    | 60    | 0.89  | 611   | 0.118 | <1    | 2.10  | 0.009 | 0.57  | <0.1  | 0.02  | 6.8   | 0.4   | <0.05 | 8     |
| REP CAT 52833   | QC                               | 35    | 64    | 0.87  | 633   | 0.118 | <1    | 2.16  | 0.009 | 0.56  | <0.1  | 0.03  | 6.8   | 0.4   | <0.05 | 9     |
| CAT 52902       | Soil                             | 7     | 29    | 0.71  | 258   | 0.089 | 1     | 1.45  | 0.016 | 0.08  | 0.1   | <0.01 | 2.4   | <0.1  | <0.05 | 4     |
| REP CAT 52902   | QC                               | 6     | 28    | 0.71  | 256   | 0.088 | <1    | 1.52  | 0.015 | 0.08  | 0.2   | 0.02  | 2.5   | <0.1  | <0.05 | 4     |
| CAT 59024       | Soil                             | 35    | 40    | 0.78  | 385   | 0.126 | 1     | 1.67  | 0.028 | 0.28  | 0.1   | 0.05  | 5.2   | 0.2   | <0.05 | 5     |
| REP CAT 59024   | QC                               | 35    | 42    | 0.80  | 392   | 0.125 | 1     | 1.74  | 0.028 | 0.27  | 0.1   | 0.05  | 5.3   | 0.2   | <0.05 | 5     |
| CAT 59049       | Soil                             | 33    | 68    | 0.96  | 565   | 0.140 | <1    | 2.07  | 0.011 | 0.27  | <0.1  | 0.03  | 6.0   | 0.2   | <0.05 | 9     |
| REP CAT 59049   | QC                               | 34    | 69    | 0.96  | 545   | 0.140 | 1     | 2.03  | 0.012 | 0.26  | 0.1   | 0.03  | 5.8   | 0.2   | <0.05 | 9     |
| CAT 59062       | Soil                             | 42    | 51    | 0.92  | 499   | 0.171 | 1     | 1.90  | 0.016 | 0.56  | 0.1   | 0.03  | 5.0   | 0.4   | <0.05 | 7     |
| REP CAT 59062   | QC                               | 42    | 47    | 0.89  | 483   | 0.153 | <1    | 1.90  | 0.016 | 0.54  | <0.1  | 0.03  | 4.8   | 0.4   | <0.05 | 7     |
| CAT 59161       | Soil                             | 31    | 92    | 1.35  | 234   | 0.178 | 1     | 2.42  | 0.013 | 0.61  | <0.1  | 0.02  | 4.6   | 0.4   | <0.05 | 8     |
| REP CAT 59161   | QC                               | 30    | 88    | 1.29  | 235   | 0.178 | <1    | 2.47  | 0.013 | 0.62  | <0.1  | 0.02  | 4.9   | 0.4   | <0.05 | 7     |
| CAT 59203       | Soil                             | 7     | 51    | 0.75  | 315   | 0.154 | <1    | 1.20  | 0.021 | 0.23  | 0.2   | 0.03  | 2.4   | 0.1   | <0.05 | 5     |
| REP CAT 59203   | QC                               | 7     | 46    | 0.76  | 307   | 0.146 | 1     | 1.17  | 0.020 | 0.23  | 0.1   | 0.03  | 2.4   | 0.1   | <0.05 | 6     |
| CAT 59276       | Soil                             | 6     | 41    | 0.90  | 242   | 0.104 | 1     | 1.51  | 0.025 | 0.17  | <0.1  | 0.01  | 4.4   | <0.1  | <0.05 | 4     |
| REP CAT 59276   | QC                               | 6     | 43    | 0.89  | 246   | 0.108 | <1    | 1.55  | 0.025 | 0.17  | <0.1  | 0.01  | 4.6   | <0.1  | <0.05 | 5     |



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Project: CAT

Report Date: September 15, 2009

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## QUALITY CONTROL REPORT

VAN09003942.1

|                     |          | 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   | 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  |
| CAT 59278           | Soil     | 0.3   | 39.1  | 4.5   | 55    | <0.1  | 18.7  | 14.7  | 491   | 2.93  | 4.0   | 0.4   | 1.6   | 2.0   | 30    | <0.1  | 0.4   | <0.1  | 82    | 0.72  |
| REP CAT 59278       | QC       | 0.3   | 38.7  | 4.5   | 52    | <0.1  | 18.7  | 14.4  | 483   | 2.84  | 4.0   | 0.5   | 3.8   | 1.9   | 28    | 0.1   | 0.4   | <0.1  | 80    | 0.70  |
| CAT 59396           | Soil     | 1.4   | 60.6  | 17.1  | 154   | <0.1  | 37.8  | 16.0  | 746   | 4.55  | 3.3   | 0.9   | <0.5  | 7.3   | 25    | 0.2   | 0.1   | 0.2   | 106   | 0.42  |
| REP CAT 59396       | QC       | 1.3   | 61.3  | 16.4  | 153   | <0.1  | 40.3  | 16.6  | 757   | 4.66  | 3.3   | 0.9   | <0.5  | 7.0   | 25    | 0.2   | 0.2   | 0.2   | 107   | 0.41  |
| CAT 60968           | Soil     | 1.4   | 43.5  | 7.2   | 107   | 0.1   | 34.2  | 10.6  | 454   | 2.69  | 22.6  | 1.2   | 4.5   | 3.9   | 30    | 0.5   | 1.7   | 0.1   | 68    | 0.40  |
| REP CAT 60968       | QC       | 1.3   | 42.6  | 7.2   | 106   | 0.1   | 31.8  | 10.5  | 464   | 2.67  | 22.2  | 1.3   | 2.5   | 4.1   | 30    | 0.5   | 1.7   | 0.1   | 68    | 0.41  |
| Reference Materials |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD DS7             | Standard | 22.4  | 115.6 | 67.2  | 400   | 0.8   | 59.2  | 10.2  | 670   | 2.54  | 46.3  | 4.9   | 74.8  | 4.5   | 68    | 5.7   | 5.5   | 4.3   | 92    | 0.96  |
| STD DS7             | Standard | 23.0  | 130.4 | 70.5  | 428   | 0.8   | 64.7  | 11.2  | 729   | 2.74  | 50.9  | 4.9   | 63.8  | 4.9   | 79    | 6.5   | 5.8   | 4.4   | 99    | 1.02  |
| STD DS7             | Standard | 20.3  | 105.2 | 68.4  | 406   | 0.8   | 56.3  | 9.7   | 643   | 2.48  | 51.9  | 4.5   | 70.1  | 4.5   | 73    | 6.6   | 6.0   | 4.7   | 83    | 0.94  |
| STD DS7             | Standard | 22.9  | 120.2 | 69.5  | 417   | 0.9   | 59.1  | 10.6  | 699   | 2.58  | 52.2  | 5.1   | 87.3  | 4.6   | 78    | 6.3   | 6.0   | 4.7   | 94    | 1.00  |
| STD DS7             | Standard | 23.9  | 122.7 | 76.1  | 430   | 0.9   | 63.3  | 10.2  | 669   | 2.59  | 54.7  | 6.1   | 72.8  | 5.2   | 75    | 6.1   | 6.2   | 5.0   | 95    | 1.03  |
| STD DS7             | Standard | 20.4  | 114.4 | 67.3  | 398   | 0.8   | 55.5  | 9.6   | 596   | 2.34  | 52.7  | 4.6   | 64.8  | 4.3   | 67    | 6.5   | 6.0   | 4.6   | 81    | 0.93  |
| STD DS7             | Standard | 20.8  | 115.7 | 70.2  | 402   | 0.8   | 60.0  | 10.0  | 615   | 2.32  | 50.3  | 5.1   | 71.5  | 4.8   | 69    | 6.5   | 6.1   | 4.9   | 86    | 0.97  |
| STD DS7             | Standard | 20.2  | 107.2 | 68.1  | 397   | 0.8   | 56.3  | 9.0   | 597   | 2.28  | 53.6  | 5.3   | 66.3  | 4.7   | 75    | 6.4   | 6.3   | 5.1   | 83    | 0.91  |
| STD DS7             | Standard | 20.4  | 109.3 | 72.2  | 416   | 0.8   | 59.7  | 9.6   | 592   | 2.34  | 51.7  | 4.8   | 67.9  | 4.7   | 72    | 6.6   | 6.2   | 5.2   | 86    | 0.88  |
| 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  |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |





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## QUALITY CONTROL REPORT

VAN09003942.1

|                     |          | 1DX15<br>La<br>ppm | 1DX15<br>Cr<br>ppm | 1DX15<br>Mg<br>% | 1DX15<br>Ba<br>ppm | 1DX15<br>Ti<br>% | 1DX15<br>B<br>ppm | 1DX15<br>Al<br>% | 1DX15<br>Na<br>% | 1DX15<br>K<br>% | 1DX15<br>W<br>ppm | 1DX15<br>Hg<br>ppm | 1DX15<br>Sc<br>ppm | 1DX15<br>Ti<br>ppm | 1DX15<br>S<br>% | 1DX15<br>Ga<br>ppm | 1DX15<br>Se<br>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 59278           | Soil     | 9                  | 53                 | 1.45             | 195                | 0.080            | 2                 | 1.55             | 0.031            | 0.14            | 0.1               | 0.02               | 5.9                | <0.1               | <0.05           | 5                  | <0.5               |
| REP CAT 59278       | QC       | 8                  | 51                 | 1.36             | 192                | 0.078            | 2                 | 1.50             | 0.028            | 0.14            | <0.1              | 0.02               | 6.0                | <0.1               | <0.05           | 5                  | <0.5               |
| CAT 59396           | Soil     | 23                 | 68                 | 1.56             | 378                | 0.202            | 2                 | 2.88             | 0.012            | 1.02            | 0.1               | 0.02               | 5.9                | 0.5                | <0.05           | 11                 | 0.6                |
| REP CAT 59396       | QC       | 23                 | 70                 | 1.53             | 387                | 0.199            | 2                 | 2.74             | 0.012            | 1.00            | 0.1               | 0.02               | 6.2                | 0.5                | <0.05           | 11                 | <0.5               |
| CAT 60968           | Soil     | 13                 | 42                 | 0.52             | 297                | 0.076            | 2                 | 1.20             | 0.016            | 0.20            | 0.2               | 0.03               | 4.2                | 0.1                | <0.05           | 4                  | <0.5               |
| REP CAT 60968       | QC       | 13                 | 41                 | 0.51             | 303                | 0.073            | 2                 | 1.20             | 0.016            | 0.20            | 0.2               | 0.03               | 4.1                | 0.2                | <0.05           | 4                  | 0.6                |
| Reference Materials |          |                    |                    |                  |                    |                  |                   |                  |                  |                 |                   |                    |                    |                    |                 |                    |                    |
| STD DS7             | Standard | 13                 | 229                | 1.10             | 404                | 0.142            | 36                | 1.12             | 0.098            | 0.49            | 3.9               | 0.19               | 2.3                | 4.3                | 0.17            | 5                  | 3.6                |
| STD DS7             | Standard | 15                 | 253                | 1.11             | 424                | 0.162            | 38                | 1.20             | 0.108            | 0.49            | 4.1               | 0.19               | 2.7                | 4.2                | 0.13            | 6                  | 3.9                |
| STD DS7             | Standard | 12                 | 199                | 1.07             | 430                | 0.127            | 36                | 1.05             | 0.100            | 0.51            | 3.8               | 0.19               | 2.5                | 4.2                | 0.19            | 5                  | 3.3                |
| STD DS7             | Standard | 14                 | 221                | 1.10             | 460                | 0.138            | 40                | 1.14             | 0.104            | 0.54            | 3.8               | 0.19               | 2.6                | 4.1                | 0.22            | 6                  | 4.0                |
| STD DS7             | Standard | 13                 | 195                | 1.11             | 413                | 0.133            | 45                | 1.07             | 0.091            | 0.46            | 4.3               | 0.22               | 2.5                | 4.6                | 0.23            | 5                  | 3.6                |
| STD DS7             | Standard | 13                 | 171                | 1.01             | 395                | 0.113            | 36                | 0.96             | 0.086            | 0.41            | 4.1               | 0.19               | 2.4                | 4.0                | 0.20            | 5                  | 3.6                |
| STD DS7             | Standard | 13                 | 183                | 1.04             | 396                | 0.118            | 41                | 1.00             | 0.091            | 0.44            | 3.7               | 0.20               | 2.6                | 4.2                | 0.21            | 5                  | 3.2                |
| STD DS7             | Standard | 12                 | 170                | 1.00             | 387                | 0.113            | 43                | 0.96             | 0.097            | 0.39            | 3.8               | 0.20               | 2.3                | 4.0                | 0.18            | 4                  | 2.9                |
| STD DS7             | Standard | 13                 | 164                | 1.02             | 416                | 0.115            | 36                | 0.97             | 0.087            | 0.43            | 4.0               | 0.20               | 2.3                | 4.3                | 0.20            | 4                  | 4.0                |
| 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               |