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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: Shawn Ryan  
Receiving Lab: Canada-Vancouver  
Received: November 04, 2009  
Report Date: December 14, 2009  
Page: 1 of 11

## CERTIFICATE OF ANALYSIS

VAN09005585.1

### CLIENT JOB INFORMATION

Project: JPR  
Shipment ID: JPR1  
P.O. Number  
Number of Samples: 300

### SAMPLE DISPOSAL

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

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

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

CC:

### 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

VAN09005585.1

|           | Method<br>Analyte<br>Unit<br>MDL | WGHT | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|           |                                  | Wgt  | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    |
|           |                                  | kg   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     |
|           |                                  | 0.01 | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 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     |
| JPR 80892 | Soil                             |      | 1.7   | 28.2  | 9.2   | 72    | <0.1  | 26.2  | 15.0  | 467   | 3.40  | 8.1   | 0.6   | 2.0   | 3.8   | 21    | 0.2   | 0.5   | 0.2   | 76    | 0.27  |
| JPR 81630 | Soil                             |      | 1.0   | 42.8  | 7.5   | 65    | 0.3   | 31.7  | 11.5  | 388   | 2.76  | 8.2   | 1.1   | 7.0   | 4.3   | 23    | 0.2   | 0.5   | 0.1   | 65    | 0.37  |
| JPR 81631 | Soil                             |      | 0.9   | 44.4  | 8.3   | 74    | 0.1   | 38.2  | 9.8   | 338   | 2.93  | 9.4   | 1.1   | 3.6   | 4.4   | 27    | 0.2   | 0.6   | 0.2   | 72    | 0.42  |
| JPR 81632 | Soil                             |      | 0.8   | 28.4  | 8.5   | 67    | 0.1   | 26.3  | 11.3  | 386   | 2.81  | 8.9   | 1.0   | 4.0   | 4.2   | 26    | 0.3   | 0.6   | 0.1   | 62    | 0.38  |
| JPR 81633 | Soil                             |      | 0.7   | 71.5  | 7.9   | 111   | <0.1  | 144.7 | 17.3  | 691   | 3.92  | 4.3   | 0.9   | 8.8   | 5.2   | 22    | 0.3   | 0.2   | 0.1   | 130   | 0.83  |
| JPR 81695 | Soil                             |      | 4.6   | 100.8 | 6.8   | 91    | <0.1  | 37.7  | 9.8   | 408   | 4.62  | 7.8   | 0.7   | 0.9   | 6.3   | 13    | <0.1  | 0.5   | 0.1   | 144   | 0.11  |
| JPR 81696 | Soil                             |      | 3.8   | 88.6  | 9.6   | 88    | 0.1   | 43.5  | 16.5  | 461   | 4.44  | 9.1   | 0.7   | 2.2   | 5.0   | 15    | 0.1   | 0.5   | 0.2   | 116   | 0.15  |
| JPR 81697 | Soil                             |      | 2.1   | 141.4 | 5.2   | 104   | <0.1  | 61.5  | 19.2  | 884   | 5.13  | 5.0   | 1.5   | 4.2   | 9.5   | 24    | <0.1  | 0.6   | <0.1  | 129   | 0.33  |
| JPR 81698 | Soil                             |      | 1.5   | 95.0  | 5.2   | 99    | <0.1  | 44.2  | 16.1  | 484   | 3.97  | 4.8   | 0.8   | 1.5   | 5.7   | 12    | <0.1  | 0.3   | <0.1  | 98    | 0.22  |
| JPR 81699 | Soil                             |      | 1.6   | 49.7  | 8.5   | 72    | <0.1  | 38.1  | 13.1  | 375   | 3.58  | 9.4   | 0.8   | 1.6   | 5.8   | 14    | 0.1   | 0.5   | 0.1   | 70    | 0.15  |
| JPR 81700 | Soil                             |      | 1.4   | 87.8  | 5.8   | 97    | <0.1  | 63.8  | 20.9  | 720   | 4.86  | 4.8   | 1.2   | 2.5   | 6.0   | 26    | 0.1   | 0.3   | <0.1  | 120   | 0.41  |
| JPR 81701 | Soil                             |      | 1.3   | 90.3  | 5.2   | 100   | <0.1  | 65.5  | 21.3  | 739   | 4.78  | 4.0   | 1.1   | 1.7   | 5.8   | 24    | 0.1   | 0.3   | <0.1  | 115   | 0.45  |
| JPR 81718 | Soil                             |      | 1.1   | 101.4 | 3.5   | 30    | <0.1  | 141.0 | 26.5  | 225   | 3.08  | 4.3   | 0.2   | <0.5  | 0.9   | 18    | <0.1  | 0.3   | <0.1  | 59    | 0.29  |
| JPR 81719 | Soil                             |      | 0.6   | 149.2 | 3.1   | 48    | <0.1  | 143.7 | 28.2  | 302   | 4.35  | 7.0   | 0.4   | 0.8   | 1.7   | 20    | <0.1  | 0.3   | <0.1  | 157   | 0.51  |
| JPR 81720 | Soil                             |      | 0.3   | 124.2 | 1.9   | 25    | <0.1  | 117.3 | 22.2  | 200   | 1.96  | 2.7   | 0.2   | 0.6   | 0.9   | 12    | <0.1  | 0.1   | <0.1  | 46    | 0.47  |
| JPR 81721 | Soil                             |      | 0.5   | 37.2  | 7.3   | 68    | <0.1  | 44.6  | 14.0  | 389   | 3.33  | 7.5   | 0.4   | 8.9   | 1.7   | 29    | 0.1   | 0.3   | <0.1  | 63    | 0.52  |
| JPR 81722 | Soil                             |      | 0.3   | 112.7 | 2.1   | 35    | <0.1  | 152.0 | 21.3  | 263   | 2.96  | 4.1   | 0.1   | <0.5  | 0.7   | 27    | <0.1  | 0.2   | <0.1  | 74    | 0.52  |
| JPR 81723 | Soil                             |      | 0.8   | 32.1  | 7.1   | 42    | <0.1  | 36.1  | 10.4  | 273   | 2.21  | 6.3   | 0.3   | <0.5  | 2.3   | 17    | <0.1  | 0.4   | 0.1   | 52    | 0.27  |
| JPR 81724 | Soil                             |      | 0.5   | 111.9 | 1.7   | 25    | <0.1  | 158.8 | 23.3  | 160   | 2.03  | 2.9   | 0.1   | <0.5  | 0.5   | 12    | <0.1  | 0.1   | <0.1  | 49    | 0.49  |
| JPR 81725 | Soil                             |      | 1.2   | 50.4  | 8.1   | 60    | 0.1   | 70.0  | 16.6  | 598   | 3.41  | 11.6  | 0.6   | <0.5  | 3.3   | 27    | 0.2   | 0.7   | 0.2   | 71    | 0.34  |
| JPR 81726 | Soil                             |      | 2.1   | 35.2  | 5.6   | 47    | <0.1  | 25.0  | 6.6   | 102   | 2.48  | 4.8   | 0.8   | <0.5  | 4.2   | 36    | <0.1  | 0.3   | 0.1   | 28    | 0.10  |
| JPR 81727 | Soil                             |      | 2.2   | 62.9  | 6.1   | 111   | <0.1  | 62.5  | 12.2  | 351   | 3.72  | 5.8   | 0.8   | <0.5  | 4.1   | 31    | 0.2   | 0.3   | 0.1   | 149   | 0.37  |
| JPR 81728 | Soil                             |      | 1.0   | 38.9  | 1.6   | 47    | <0.1  | 454.2 | 28.0  | 270   | 2.44  | 1.9   | 0.5   | 1.0   | 3.0   | 33    | <0.1  | 0.1   | <0.1  | 46    | 0.44  |
| JPR 81729 | Soil                             |      | 1.1   | 37.3  | 1.5   | 49    | <0.1  | 449.3 | 28.3  | 280   | 2.57  | 1.9   | 0.5   | 1.0   | 3.0   | 34    | <0.1  | 0.1   | <0.1  | 47    | 0.46  |
| JPR 81741 | Soil                             |      | 0.5   | 45.0  | 5.6   | 62    | <0.1  | 31.2  | 19.1  | 807   | 3.66  | 3.0   | 0.6   | 2.1   | 3.2   | 28    | 0.1   | 0.3   | <0.1  | 60    | 0.88  |
| JPR 81742 | Soil                             |      | 0.4   | 37.7  | 4.9   | 60    | <0.1  | 29.1  | 17.3  | 789   | 3.28  | 2.8   | 0.6   | 2.1   | 2.8   | 25    | <0.1  | 0.3   | <0.1  | 56    | 0.82  |
| JPR 81800 | Soil                             |      | 0.9   | 20.2  | 7.9   | 58    | 0.1   | 18.1  | 9.2   | 286   | 2.56  | 6.6   | 1.3   | 9.1   | 5.2   | 37    | <0.1  | 0.4   | 0.1   | 47    | 0.28  |
| JPR 81819 | Soil                             |      | 0.6   | 20.0  | 11.6  | 45    | <0.1  | 19.0  | 6.7   | 306   | 2.03  | 6.5   | 0.9   | 2.4   | 4.6   | 47    | <0.1  | 0.5   | 0.2   | 45    | 0.29  |
| JPR 81843 | Soil                             |      | 0.7   | 14.4  | 5.4   | 127   | <0.1  | 48.4  | 22.2  | 563   | 5.05  | 3.8   | 1.0   | <0.5  | 9.1   | 25    | <0.1  | 0.1   | <0.1  | 50    | 0.28  |
| JPR 81844 | Soil                             |      | 0.9   | 35.8  | 3.0   | 81    | <0.1  | 24.3  | 24.1  | 632   | 6.31  | 2.3   | 1.0   | <0.5  | 6.3   | 18    | <0.1  | 0.1   | <0.1  | 115   | 0.29  |



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Report Date: December 14, 2009

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## CERTIFICATE OF ANALYSIS

VAN09005585.1

|           | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|           |                                  | P     | 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   |
|           |                                  | 0.001 | 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   |
| JPR 80892 | Soil                             | 0.042 | 10    | 39    | 0.70  | 203   | 0.125 | <1    | 2.07  | 0.013 | 0.19  | 0.1   | 0.01  | 3.7   | 0.1   | <0.05 | 6     | <0.5  |
| JPR 81630 | Soil                             | 0.074 | 16    | 43    | 0.50  | 388   | 0.090 | 1     | 1.46  | 0.013 | 0.07  | 0.2   | 0.03  | 5.3   | <0.1  | <0.05 | 4     | <0.5  |
| JPR 81631 | Soil                             | 0.082 | 15    | 51    | 0.54  | 370   | 0.102 | <1    | 1.46  | 0.015 | 0.08  | 0.2   | 0.03  | 6.0   | <0.1  | <0.05 | 5     | <0.5  |
| JPR 81632 | Soil                             | 0.078 | 15    | 37    | 0.51  | 354   | 0.080 | <1    | 1.49  | 0.016 | 0.05  | 0.3   | 0.03  | 4.8   | <0.1  | <0.05 | 5     | 0.5   |
| JPR 81633 | Soil                             | 0.202 | 16    | 216   | 2.15  | 948   | 0.204 | <1    | 3.05  | 0.010 | 0.77  | <0.1  | 0.01  | 9.8   | 0.4   | <0.05 | 10    | 0.6   |
| JPR 81695 | Soil                             | 0.048 | 17    | 94    | 1.17  | 512   | 0.222 | <1    | 2.98  | 0.011 | 0.82  | <0.1  | <0.01 | 5.4   | 0.3   | 0.13  | 10    | 1.2   |
| JPR 81696 | Soil                             | 0.050 | 12    | 68    | 0.77  | 404   | 0.118 | <1    | 2.87  | 0.012 | 0.34  | 0.1   | 0.02  | 4.5   | 0.2   | <0.05 | 7     | 0.5   |
| JPR 81697 | Soil                             | 0.055 | 46    | 87    | 0.90  | 490   | 0.091 | <1    | 2.52  | 0.011 | 0.33  | <0.1  | 0.04  | 10.9  | 0.2   | <0.05 | 8     | 0.6   |
| JPR 81698 | Soil                             | 0.100 | 23    | 58    | 0.97  | 331   | 0.176 | <1    | 2.41  | 0.009 | 0.64  | <0.1  | 0.01  | 5.3   | 0.3   | <0.05 | 9     | 0.7   |
| JPR 81699 | Soil                             | 0.044 | 18    | 40    | 0.55  | 282   | 0.065 | <1    | 2.13  | 0.011 | 0.14  | 0.1   | 0.03  | 3.9   | 0.1   | <0.05 | 6     | 0.7   |
| JPR 81700 | Soil                             | 0.069 | 28    | 67    | 0.89  | 577   | 0.102 | <1    | 2.22  | 0.015 | 0.36  | <0.1  | 0.04  | 11.4  | 0.2   | <0.05 | 8     | <0.5  |
| JPR 81701 | Soil                             | 0.075 | 28    | 65    | 0.90  | 593   | 0.113 | <1    | 2.12  | 0.016 | 0.38  | <0.1  | 0.03  | 11.2  | 0.2   | <0.05 | 8     | 0.8   |
| JPR 81718 | Soil                             | 0.062 | 3     | 107   | 0.91  | 165   | 0.142 | <1    | 2.38  | 0.026 | 0.05  | <0.1  | <0.01 | 3.1   | <0.1  | <0.05 | 5     | 0.5   |
| JPR 81719 | Soil                             | 0.144 | 6     | 270   | 1.32  | 399   | 0.249 | <1    | 2.68  | 0.010 | 0.54  | <0.1  | <0.01 | 8.4   | 0.2   | <0.05 | 10    | <0.5  |
| JPR 81720 | Soil                             | 0.102 | 4     | 61    | 0.75  | 121   | 0.071 | <1    | 1.15  | 0.036 | 0.06  | <0.1  | <0.01 | 3.3   | <0.1  | <0.05 | 3     | <0.5  |
| JPR 81721 | Soil                             | 0.122 | 6     | 29    | 0.85  | 233   | 0.082 | <1    | 2.11  | 0.016 | 0.07  | <0.1  | 0.01  | 3.8   | <0.1  | <0.05 | 7     | <0.5  |
| JPR 81722 | Soil                             | 0.015 | 2     | 159   | 1.20  | 188   | 0.135 | <1    | 2.15  | 0.010 | 0.06  | <0.1  | <0.01 | 7.3   | <0.1  | <0.05 | 5     | <0.5  |
| JPR 81723 | Soil                             | 0.024 | 8     | 42    | 0.48  | 218   | 0.061 | <1    | 1.57  | 0.018 | 0.04  | <0.1  | <0.01 | 3.0   | <0.1  | <0.05 | 4     | <0.5  |
| JPR 81724 | Soil                             | 0.128 | 2     | 82    | 0.73  | 144   | 0.112 | <1    | 1.49  | 0.025 | 0.14  | <0.1  | <0.01 | 3.1   | <0.1  | <0.05 | 4     | <0.5  |
| JPR 81725 | Soil                             | 0.061 | 11    | 51    | 0.37  | 320   | 0.055 | <1    | 1.38  | 0.009 | 0.11  | 0.1   | 0.01  | 5.4   | <0.1  | <0.05 | 4     | 0.7   |
| JPR 81726 | Soil                             | 0.043 | 11    | 24    | 0.40  | 286   | 0.059 | <1    | 0.98  | 0.006 | 0.23  | <0.1  | <0.01 | 2.4   | 0.3   | 0.08  | 3     | 0.9   |
| JPR 81727 | Soil                             | 0.075 | 16    | 122   | 1.39  | 989   | 0.188 | <1    | 2.56  | 0.011 | 0.44  | <0.1  | <0.01 | 5.8   | 0.2   | <0.05 | 8     | 0.9   |
| JPR 81728 | Soil                             | 0.022 | 11    | 697   | 3.22  | 637   | 0.119 | <1    | 2.40  | 0.008 | 0.09  | <0.1  | <0.01 | 4.6   | 0.1   | <0.05 | 7     | <0.5  |
| JPR 81729 | Soil                             | 0.021 | 10    | 707   | 3.38  | 686   | 0.134 | <1    | 2.53  | 0.007 | 0.11  | <0.1  | <0.01 | 4.5   | 0.1   | <0.05 | 7     | <0.5  |
| JPR 81741 | Soil                             | 0.058 | 15    | 121   | 1.25  | 203   | 0.126 | <1    | 2.27  | 0.024 | 0.12  | 0.2   | 0.04  | 9.6   | 0.1   | <0.05 | 8     | <0.5  |
| JPR 81742 | Soil                             | 0.062 | 14    | 111   | 1.10  | 189   | 0.113 | <1    | 1.92  | 0.020 | 0.12  | 0.1   | 0.03  | 8.1   | 0.1   | <0.05 | 7     | <0.5  |
| JPR 81800 | Soil                             | 0.032 | 21    | 27    | 0.57  | 337   | 0.078 | <1    | 1.76  | 0.016 | 0.07  | 0.1   | 0.02  | 4.2   | <0.1  | <0.05 | 5     | <0.5  |
| JPR 81819 | Soil                             | 0.029 | 20    | 29    | 0.39  | 328   | 0.089 | <1    | 1.60  | 0.016 | 0.05  | <0.1  | 0.02  | 3.9   | 0.1   | <0.05 | 4     | <0.5  |
| JPR 81843 | Soil                             | 0.044 | 14    | 59    | 1.42  | 173   | 0.226 | <1    | 3.01  | 0.015 | 1.02  | 0.1   | <0.01 | 1.7   | 0.8   | <0.05 | 7     | <0.5  |
| JPR 81844 | Soil                             | 0.043 | 12    | 37    | 1.59  | 269   | 0.288 | <1    | 3.50  | 0.012 | 1.47  | <0.1  | <0.01 | 3.5   | 0.7   | <0.05 | 9     | <0.5  |



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## CERTIFICATE OF ANALYSIS

VAN09005585.1

|           | Method | Analyte | Unit | MDL | WGHT | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |     |      |      |
|-----------|--------|---------|------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|------|------|
|           |        |         |      |     | Wgt  | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi  | V    | Ca   |
|           |        |         |      |     | kg   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm | ppm  | %    |
|           |        |         |      |     | 0.01 | 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 |
| JPR 81845 | Soil   |         |      |     | 1.9  | 39.1  | 12.1  | 74    | 0.5   | 53.2  | 12.4  | 360   | 3.82  | 12.9  | 0.8   | 7.7   | 4.1   | 16    | 0.1   | 0.7   | 0.2   | 90  | 0.16 |      |
| JPR 81846 | Soil   |         |      |     | 1.9  | 44.6  | 10.0  | 66    | 0.9   | 67.6  | 18.4  | 1797  | 2.92  | 5.0   | 1.9   | 5.7   | 1.3   | 55    | 0.8   | 0.4   | 0.2   | 70  | 1.27 |      |
| JPR 81905 | Soil   |         |      |     | 0.3  | 63.9  | 3.5   | 48    | <0.1  | 143.8 | 21.2  | 556   | 3.15  | 2.4   | 0.4   | 16.1  | 1.6   | 19    | <0.1  | 0.3   | <0.1  | 53  | 0.34 |      |
| JPR 81906 | Soil   |         |      |     | 0.7  | 19.4  | 18.9  | 121   | <0.1  | 11.1  | 15.2  | 896   | 3.92  | 3.2   | 1.6   | 1.2   | 12.2  | 12    | 0.1   | 0.3   | 0.2   | 61  | 0.24 |      |
| JPR 81907 | Soil   |         |      |     | 1.4  | 44.6  | 16.3  | 83    | 0.1   | 34.7  | 14.1  | 651   | 3.61  | 11.2  | 1.0   | 7.1   | 6.5   | 31    | 0.2   | 0.8   | 0.2   | 62  | 0.32 |      |
| JPR 81908 | Soil   |         |      |     | 1.3  | 21.3  | 18.9  | 78    | <0.1  | 10.6  | 9.8   | 738   | 3.01  | 4.6   | 1.7   | 14.1  | 13.2  | 13    | 0.4   | 0.3   | 0.2   | 32  | 0.16 |      |
| JPR 81909 | Soil   |         |      |     | 0.9  | 24.1  | 22.1  | 76    | <0.1  | 22.6  | 10.0  | 397   | 2.62  | 9.1   | 1.1   | 2.1   | 6.8   | 15    | 0.2   | 0.6   | 0.2   | 48  | 0.16 |      |
| JPR 81910 | Soil   |         |      |     | 1.1  | 21.6  | 69.4  | 106   | 0.8   | 18.2  | 9.1   | 356   | 2.96  | 14.0  | 1.0   | 9.8   | 3.7   | 16    | 0.9   | 0.6   | 5.4   | 54  | 0.15 |      |
| JPR 81911 | Soil   |         |      |     | 1.2  | 29.7  | 14.2  | 59    | 0.2   | 20.9  | 10.0  | 345   | 3.16  | 11.7  | 1.6   | 3.7   | 15.3  | 14    | 0.1   | 0.7   | 0.3   | 57  | 0.12 |      |
| JPR 81912 | Soil   |         |      |     | 1.1  | 28.8  | 11.1  | 54    | <0.1  | 22.6  | 10.4  | 256   | 3.05  | 12.2  | 0.8   | 1.8   | 6.7   | 16    | 0.2   | 0.6   | 0.2   | 61  | 0.16 |      |
| JPR 81913 | Soil   |         |      |     | 0.9  | 22.6  | 12.6  | 56    | 0.2   | 25.8  | 10.2  | 350   | 2.93  | 8.8   | 1.0   | 5.2   | 5.0   | 20    | 0.1   | 0.6   | 0.2   | 61  | 0.21 |      |
| JPR 81914 | Soil   |         |      |     | 1.0  | 24.2  | 14.2  | 68    | 0.1   | 32.0  | 12.7  | 349   | 3.60  | 9.5   | 1.3   | 2.1   | 7.8   | 20    | 0.1   | 0.6   | 0.3   | 64  | 0.18 |      |
| JPR 81915 | Soil   |         |      |     | 0.7  | 43.9  | 14.5  | 81    | <0.1  | 22.7  | 11.9  | 632   | 3.35  | 7.1   | 2.6   | 7.1   | 24.7  | 18    | 0.2   | 0.5   | 0.3   | 47  | 0.18 |      |
| JPR 81916 | Soil   |         |      |     | 0.7  | 40.0  | 18.2  | 113   | <0.1  | 32.6  | 18.4  | 728   | 4.19  | 6.3   | 1.5   | 3.0   | 10.0  | 24    | 0.2   | 0.5   | 0.2   | 73  | 0.29 |      |
| JPR 81948 | Soil   |         |      |     | 0.4  | 22.6  | 3.0   | 65    | <0.1  | 10.5  | 16.1  | 487   | 3.75  | 3.4   | 0.5   | 0.8   | 4.0   | 29    | <0.1  | 0.2   | <0.1  | 70  | 0.45 |      |
| JPR 81949 | Soil   |         |      |     | 1.1  | 45.1  | 3.3   | 75    | <0.1  | 38.4  | 18.9  | 540   | 4.82  | 1.9   | 3.0   | <0.5  | 15.9  | 23    | <0.1  | <0.1  | <0.1  | 84  | 0.30 |      |
| JPR 81950 | Soil   |         |      |     | 1.3  | 40.0  | 6.1   | 109   | <0.1  | 45.0  | 20.1  | 510   | 5.31  | 23.2  | 3.0   | 0.6   | 17.5  | 34    | 0.1   | 0.3   | <0.1  | 76  | 0.29 |      |
| JPR 81951 | Soil   |         |      |     | 0.6  | 65.6  | 7.6   | 63    | 0.1   | 22.4  | 20.7  | 459   | 2.53  | 2.5   | 1.8   | 1.5   | 4.5   | 28    | 0.2   | 0.2   | <0.1  | 26  | 0.77 |      |
| JPR 81952 | Soil   |         |      |     | 0.5  | 106.6 | 5.9   | 38    | <0.1  | 133.1 | 21.2  | 301   | 2.54  | 6.1   | 0.8   | 2.6   | 2.9   | 18    | <0.1  | 0.4   | 0.1   | 48  | 0.20 |      |
| JPR 81953 | Soil   |         |      |     | 0.5  | 55.0  | 4.4   | 44    | <0.1  | 54.4  | 19.8  | 396   | 2.86  | 2.7   | 0.7   | 1.0   | 4.8   | 27    | 0.1   | 0.2   | <0.1  | 60  | 0.43 |      |
| JPR 81954 | Soil   |         |      |     | 1.1  | 80.8  | 1.8   | 100   | <0.1  | 127.9 | 39.3  | 934   | 6.72  | 1.1   | 1.0   | 0.6   | 13.6  | 50    | <0.1  | <0.1  | <0.1  | 118 | 0.57 |      |
| JPR 81955 | Soil   |         |      |     | 0.6  | 38.2  | 1.2   | 79    | <0.1  | 22.5  | 19.0  | 732   | 4.53  | 0.9   | 1.3   | <0.5  | 10.8  | 35    | <0.1  | <0.1  | <0.1  | 76  | 0.58 |      |
| JPR 81956 | Soil   |         |      |     | 1.0  | 124.4 | 4.0   | 133   | <0.1  | 74.0  | 28.8  | 896   | 6.41  | 2.0   | 1.4   | 1.0   | 20.0  | 56    | 0.1   | <0.1  | <0.1  | 113 | 1.00 |      |
| JPR 81958 | Soil   |         |      |     | 0.9  | 32.6  | 9.1   | 79    | <0.1  | 40.6  | 17.1  | 540   | 4.19  | 8.6   | 1.4   | 3.5   | 8.7   | 27    | 0.1   | 0.4   | 0.1   | 65  | 0.33 |      |
| JPR 81959 | Soil   |         |      |     | 1.1  | 49.0  | 9.1   | 70    | 0.1   | 36.2  | 13.2  | 418   | 3.54  | 11.5  | 4.1   | 2.8   | 6.1   | 23    | <0.1  | 0.5   | 0.1   | 55  | 0.30 |      |
| JPR 81960 | Soil   |         |      |     | 2.0  | 50.8  | 8.0   | 115   | <0.1  | 55.0  | 28.3  | 946   | 5.50  | <0.5  | 2.0   | 0.7   | 11.7  | 67    | <0.1  | <0.1  | <0.1  | 48  | 0.83 |      |
| JPR 83501 | Soil   |         |      |     | 1.0  | 51.2  | 9.2   | 65    | <0.1  | 35.4  | 13.4  | 443   | 3.14  | 9.3   | 1.5   | 5.2   | 5.1   | 23    | <0.1  | 0.6   | 0.2   | 73  | 0.23 |      |
| JPR 83502 | Soil   |         |      |     | 1.6  | 100.4 | 14.8  | 107   | <0.1  | 93.0  | 15.9  | 713   | 4.56  | 8.5   | 1.3   | <0.5  | 4.7   | 20    | 0.1   | 0.8   | 0.4   | 107 | 0.20 |      |
| JPR 83503 | Soil   |         |      |     | 1.3  | 14.8  | 6.9   | 86    | <0.1  | 82.7  | 11.6  | 334   | 4.67  | 10.7  | 1.2   | 0.6   | 4.8   | 9     | 0.1   | 0.5   | 0.1   | 132 | 0.08 |      |
| JPR 83504 | Soil   |         |      |     | 1.9  | 51.8  | 11.8  | 86    | <0.1  | 102.9 | 17.5  | 641   | 4.39  | 10.4  | 1.4   | 0.8   | 5.9   | 18    | 0.3   | 0.4   | 0.2   | 106 | 0.14 |      |



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Project: JPR  
Report Date: December 14, 2009

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## CERTIFICATE OF ANALYSIS

VAN09005585.1

|           | Method<br>Analyte<br>Unit<br>MDL | 1DX15  | 1DX15     | 1DX15     | 1DX15   | 1DX15     | 1DX15   | 1DX15    | 1DX15   | 1DX15   | 1DX15  | 1DX15    | 1DX15     | 1DX15     | 1DX15     | 1DX15  | 1DX15     | 1DX15     |
|-----------|----------------------------------|--------|-----------|-----------|---------|-----------|---------|----------|---------|---------|--------|----------|-----------|-----------|-----------|--------|-----------|-----------|
|           |                                  | P<br>% | La<br>ppm | Cr<br>ppm | Mg<br>% | Ba<br>ppm | Ti<br>% | B<br>ppm | Al<br>% | Na<br>% | K<br>% | W<br>ppm | Hg<br>ppm | Sc<br>ppm | Tl<br>ppm | S<br>% | Ga<br>ppm | Se<br>ppm |
|           |                                  | 0.001  | 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       |
| JPR 81845 | Soil                             | 0.037  | 13        | 70        | 0.64    | 304       | 0.091   | 1        | 1.99    | 0.009   | 0.08   | 0.1      | 0.05      | 5.1       | 0.1       | <0.05  | 6         | <0.5      |
| JPR 81846 | Soil                             | 0.097  | 19        | 76        | 0.66    | 1160      | 0.072   | 2        | 1.73    | 0.016   | 0.13   | 0.1      | 0.09      | 5.5       | 0.2       | 0.06   | 6         | 1.1       |
| JPR 81905 | Soil                             | 0.052  | 12        | 228       | 1.68    | 131       | 0.074   | 2        | 1.96    | 0.011   | 0.06   | <0.1     | 0.03      | 7.3       | <0.1      | <0.05  | 4         | <0.5      |
| JPR 81906 | Soil                             | 0.109  | 16        | 18        | 0.69    | 159       | 0.088   | 3        | 1.84    | 0.009   | 0.43   | <0.1     | 0.01      | 6.6       | 0.4       | <0.05  | 7         | <0.5      |
| JPR 81907 | Soil                             | 0.050  | 23        | 40        | 0.72    | 395       | 0.108   | 1        | 1.88    | 0.017   | 0.12   | 0.2      | 0.05      | 6.2       | 0.1       | <0.05  | 5         | <0.5      |
| JPR 81908 | Soil                             | 0.044  | 33        | 14        | 0.39    | 203       | 0.064   | 2        | 1.16    | 0.010   | 0.21   | 0.1      | 0.01      | 3.6       | 0.2       | <0.05  | 3         | 0.7       |
| JPR 81909 | Soil                             | 0.027  | 24        | 27        | 0.50    | 179       | 0.078   | 1        | 1.73    | 0.009   | 0.07   | 0.1      | 0.02      | 3.0       | 0.1       | <0.05  | 4         | <0.5      |
| JPR 81910 | Soil                             | 0.047  | 14        | 27        | 0.42    | 203       | 0.060   | 1        | 1.84    | 0.010   | 0.07   | 0.1      | 0.03      | 2.9       | 0.2       | <0.05  | 6         | 0.5       |
| JPR 81911 | Soil                             | 0.030  | 25        | 37        | 0.50    | 208       | 0.070   | 2        | 2.47    | 0.015   | 0.05   | 0.2      | 0.04      | 4.3       | 0.1       | <0.05  | 6         | 0.8       |
| JPR 81912 | Soil                             | 0.038  | 15        | 34        | 0.48    | 209       | 0.072   | 1        | 2.39    | 0.008   | 0.05   | 0.2      | 0.03      | 3.4       | 0.1       | <0.05  | 6         | <0.5      |
| JPR 81913 | Soil                             | 0.025  | 21        | 37        | 0.63    | 228       | 0.102   | 1        | 1.94    | 0.014   | 0.07   | 0.2      | 0.02      | 4.6       | 0.2       | <0.05  | 6         | <0.5      |
| JPR 81914 | Soil                             | 0.019  | 19        | 49        | 0.84    | 204       | 0.119   | 2        | 2.35    | 0.011   | 0.13   | 0.1      | 0.02      | 4.0       | 0.2       | <0.05  | 6         | <0.5      |
| JPR 81915 | Soil                             | 0.024  | 77        | 28        | 0.70    | 208       | 0.134   | 2        | 1.86    | 0.009   | 0.26   | 0.2      | 0.03      | 5.4       | 0.4       | <0.05  | 6         | <0.5      |
| JPR 81916 | Soil                             | 0.051  | 45        | 56        | 1.29    | 239       | 0.180   | 2        | 2.49    | 0.010   | 0.44   | 0.2      | 0.03      | 6.3       | 0.4       | <0.05  | 7         | <0.5      |
| JPR 81948 | Soil                             | 0.057  | 13        | 17        | 1.02    | 275       | 0.203   | <1       | 2.24    | 0.019   | 0.37   | <0.1     | <0.01     | 4.1       | 0.1       | <0.05  | 7         | <0.5      |
| JPR 81949 | Soil                             | 0.083  | 20        | 86        | 1.56    | 238       | 0.268   | <1       | 3.84    | 0.020   | 0.99   | <0.1     | <0.01     | 5.8       | 0.6       | <0.05  | 14        | 0.7       |
| JPR 81950 | Soil                             | 0.064  | 38        | 81        | 1.44    | 211       | 0.237   | <1       | 3.08    | 0.011   | 0.48   | <0.1     | 0.02      | 6.1       | 0.3       | <0.05  | 13        | <0.5      |
| JPR 81951 | Soil                             | 0.121  | 21        | 18        | 0.43    | 41        | 0.044   | 1        | 0.72    | 0.008   | 0.02   | 0.1      | 0.02      | 5.2       | <0.1      | <0.05  | 2         | 0.6       |
| JPR 81952 | Soil                             | 0.027  | 15        | 157       | 0.87    | 241       | 0.075   | 1        | 1.64    | 0.009   | 0.05   | 0.1      | 0.02      | 3.8       | 0.1       | <0.05  | 4         | <0.5      |
| JPR 81953 | Soil                             | 0.091  | 15        | 128       | 1.26    | 273       | 0.166   | <1       | 2.27    | 0.012   | 0.25   | <0.1     | <0.01     | 3.0       | 0.2       | <0.05  | 5         | <0.5      |
| JPR 81954 | Soil                             | 0.124  | 37        | 94        | 2.09    | 419       | 0.327   | <1       | 3.54    | 0.013   | 1.27   | <0.1     | <0.01     | 8.0       | 0.5       | <0.05  | 12        | <0.5      |
| JPR 81955 | Soil                             | 0.140  | 26        | 35        | 1.62    | 155       | 0.189   | <1       | 2.73    | 0.011   | 1.13   | <0.1     | <0.01     | 4.0       | 0.8       | <0.05  | 8         | <0.5      |
| JPR 81956 | Soil                             | 0.096  | 42        | 117       | 1.89    | 205       | 0.305   | 1        | 2.91    | 0.011   | 0.96   | <0.1     | 0.01      | 9.5       | 0.7       | <0.05  | 12        | <0.5      |
| JPR 81958 | Soil                             | 0.044  | 30        | 55        | 0.93    | 252       | 0.144   | 1        | 2.44    | 0.012   | 0.30   | 0.2      | 0.02      | 4.5       | 0.3       | <0.05  | 7         | <0.5      |
| JPR 81959 | Soil                             | 0.046  | 49        | 41        | 0.78    | 227       | 0.117   | <1       | 2.08    | 0.012   | 0.26   | 0.2      | 0.04      | 4.0       | 0.2       | <0.05  | 6         | <0.5      |
| JPR 81960 | Soil                             | 0.063  | 38        | 63        | 1.40    | 188       | 0.134   | 1        | 2.71    | 0.009   | 0.74   | <0.1     | <0.01     | 4.5       | 0.7       | <0.05  | 8         | <0.5      |
| JPR 83501 | Soil                             | 0.045  | 17        | 50        | 0.72    | 375       | 0.125   | <1       | 1.92    | 0.011   | 0.22   | 0.2      | 0.03      | 8.3       | 0.1       | <0.05  | 6         | <0.5      |
| JPR 83502 | Soil                             | 0.023  | 22        | 113       | 1.52    | 362       | 0.184   | <1       | 3.60    | 0.009   | 0.72   | <0.1     | 0.01      | 8.1       | 0.5       | <0.05  | 12        | 0.8       |
| JPR 83503 | Soil                             | 0.051  | 10        | 80        | 1.26    | 136       | 0.042   | <1       | 2.94    | 0.007   | 0.05   | 0.1      | 0.01      | 8.1       | <0.1      | <0.05  | 10        | <0.5      |
| JPR 83504 | Soil                             | 0.076  | 23        | 143       | 1.47    | 462       | 0.182   | <1       | 3.19    | 0.012   | 0.59   | 0.1      | 0.01      | 5.2       | 0.3       | 0.07   | 10        | 0.5       |



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Project: JPR  
Report Date: December 14, 2009

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## CERTIFICATE OF ANALYSIS

VAN09005585.1

|           | Method<br>Analyte<br>Unit<br>MDL | WGHT      | 1DX15     | 1DX15     | 1DX15     | 1DX15     | 1DX15     | 1DX15     | 1DX15     | 1DX15     | 1DX15   | 1DX15     | 1DX15    | 1DX15     | 1DX15     | 1DX15     | 1DX15     | 1DX15     | 1DX15     | 1DX15    | 1DX15   |
|-----------|----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|---------|
|           |                                  | Wgt<br>kg | Mo<br>ppm | Cu<br>ppm | Pb<br>ppm | Zn<br>ppm | Ag<br>ppm | Ni<br>ppm | Co<br>ppm | Mn<br>ppm | Fe<br>% | As<br>ppm | U<br>ppm | Au<br>ppb | Th<br>ppm | Sr<br>ppm | Cd<br>ppm | Sb<br>ppm | Bi<br>ppm | V<br>ppm | Ca<br>% |
|           |                                  | 0.01      | 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    |
| JPR 83505 | Soil                             |           | 2.2       | 85.6      | 9.8       | 100       | <0.1      | 191.6     | 21.3      | 554       | 4.55    | 9.6       | 1.7      | 0.6       | 6.8       | 46        | 0.1       | 0.3       | 0.2       | 118      | 0.25    |
| JPR 83506 | Soil                             |           | 2.9       | 102.7     | 11.3      | 116       | 0.1       | 140.4     | 20.6      | 502       | 5.24    | 9.0       | 1.6      | 0.8       | 7.9       | 34        | 0.1       | 0.3       | 0.2       | 122      | 0.20    |
| JPR 83508 | Soil                             |           | 0.8       | 57.3      | 8.5       | 69        | <0.1      | 138.5     | 20.0      | 494       | 3.76    | 14.9      | 0.9      | 1.7       | 4.5       | 22        | <0.1      | 0.5       | 0.1       | 83       | 0.22    |
| JPR 83511 | Soil                             |           | 1.2       | 46.0      | 8.7       | 72        | <0.1      | 31.0      | 13.7      | 665       | 3.32    | 11.1      | 1.6      | 3.1       | 4.9       | 17        | 0.1       | 0.6       | 0.2       | 59       | 0.16    |
| JPR 83512 | Soil                             |           | 2.4       | 65.7      | 11.1      | 124       | <0.1      | 69.4      | 20.4      | 597       | 5.57    | 19.6      | 1.7      | 1.3       | 6.7       | 15        | 0.2       | 0.4       | 0.2       | 117      | 0.16    |
| JPR 83513 | Soil                             |           | 1.5       | 59.1      | 11.0      | 75        | <0.1      | 50.8      | 14.7      | 464       | 3.65    | 18.9      | 1.8      | 1.8       | 5.9       | 24        | <0.1      | 0.6       | 0.2       | 71       | 0.20    |
| JPR 83514 | Soil                             |           | 1.6       | 37.6      | 11.2      | 75        | <0.1      | 29.8      | 14.9      | 577       | 3.53    | 13.1      | 1.1      | 3.1       | 4.8       | 18        | <0.1      | 0.7       | 0.2       | 72       | 0.14    |
| JPR 83515 | Soil                             |           | 1.6       | 35.2      | 9.4       | 64        | <0.1      | 26.1      | 11.5      | 481       | 3.11    | 16.5      | 1.3      | 2.2       | 5.5       | 25        | <0.1      | 0.7       | 0.2       | 59       | 0.21    |
| JPR 83551 | Soil                             |           | 3.2       | 81.1      | 13.1      | 147       | 0.1       | 76.0      | 21.7      | 1052      | 4.96    | 33.4      | 1.7      | 5.9       | 6.9       | 18        | 0.4       | 0.5       | 0.6       | 110      | 0.24    |
| JPR 83552 | Soil                             |           | 2.8       | 74.7      | 11.8      | 192       | <0.1      | 86.6      | 17.9      | 704       | 5.75    | 4.3       | 2.1      | 1.8       | 9.0       | 26        | 0.2       | 0.4       | 0.2       | 139      | 0.32    |
| JPR 83553 | Soil                             |           | 2.2       | 61.6      | 10.8      | 141       | 0.2       | 73.8      | 18.4      | 762       | 4.71    | 4.3       | 1.8      | <0.5      | 5.0       | 35        | 0.2       | 0.4       | 0.2       | 136      | 0.38    |
| JPR 83554 | Soil                             |           | 1.6       | 60.8      | 9.2       | 96        | 0.3       | 56.8      | 15.2      | 504       | 4.39    | 7.7       | 1.3      | 1.9       | 7.3       | 27        | 0.2       | 0.5       | 0.2       | 116      | 0.25    |
| JPR 83555 | Soil                             |           | 4.0       | 109.0     | 16.8      | 167       | 0.3       | 97.3      | 18.4      | 659       | 5.15    | 8.8       | 3.0      | 3.0       | 7.3       | 17        | 0.3       | 0.5       | 0.5       | 78       | 0.12    |
| JPR 83556 | Soil                             |           | 2.7       | 92.5      | 10.7      | 144       | 0.2       | 110.3     | 20.7      | 931       | 4.85    | 4.3       | 3.1      | 1.8       | 6.6       | 17        | 0.3       | 0.2       | 0.4       | 146      | 0.29    |
| JPR 83710 | Soil                             |           | 1.0       | 37.7      | 9.5       | 61        | <0.1      | 49.0      | 12.5      | 383       | 3.38    | 9.9       | 1.2      | 3.3       | 4.7       | 19        | <0.1      | 0.6       | 0.2       | 74       | 0.23    |
| JPR 83711 | Soil                             |           | 1.0       | 69.4      | 7.3       | 83        | <0.1      | 112.3     | 22.1      | 896       | 4.15    | 3.5       | 1.9      | <0.5      | 6.9       | 38        | 0.2       | 0.3       | 0.1       | 121      | 0.34    |
| JPR 83712 | Soil                             |           | 1.1       | 90.6      | 7.1       | 96        | <0.1      | 97.0      | 18.4      | 925       | 4.60    | 3.2       | 1.7      | 1.4       | 8.6       | 24        | 0.1       | 0.5       | <0.1      | 106      | 0.36    |
| JPR 83713 | Soil                             |           | 1.4       | 101.4     | 9.0       | 81        | <0.1      | 86.0      | 28.2      | 963       | 4.76    | 8.8       | 1.9      | 1.1       | 5.8       | 41        | 0.1       | 0.2       | 0.2       | 130      | 0.28    |
| JPR 83714 | Soil                             |           | 1.2       | 147.0     | 6.5       | 128       | <0.1      | 110.6     | 22.4      | 1940      | 5.66    | 5.0       | 1.6      | 0.7       | 10.4      | 15        | 0.1       | 0.2       | 0.2       | 141      | 0.28    |
| JPR 83715 | Soil                             |           | 0.8       | 74.3      | 5.0       | 81        | <0.1      | 87.7      | 21.0      | 767       | 4.50    | 3.4       | 1.2      | 0.6       | 3.6       | 15        | 0.1       | 0.2       | <0.1      | 106      | 0.30    |
| JPR 83716 | Soil                             |           | 1.0       | 42.6      | 7.7       | 79        | <0.1      | 40.7      | 15.6      | 636       | 3.75    | 7.8       | 0.8      | 1.7       | 3.7       | 17        | 0.2       | 0.4       | 0.1       | 92       | 0.20    |
| JPR 83717 | Soil                             |           | 0.8       | 73.9      | 5.8       | 85        | <0.1      | 105.7     | 20.1      | 685       | 3.77    | 3.8       | 1.3      | 1.8       | 5.8       | 25        | <0.1      | 0.3       | 0.1       | 103      | 0.32    |
| JPR 83718 | Soil                             |           | 0.4       | 69.6      | 4.5       | 91        | <0.1      | 51.7      | 20.1      | 528       | 4.12    | 1.8       | 0.9      | 4.5       | 2.2       | 20        | <0.1      | 0.2       | <0.1      | 125      | 0.53    |
| JPR 83719 | Soil                             |           | 0.6       | 64.9      | 4.9       | 65        | <0.1      | 58.1      | 19.6      | 436       | 3.63    | 5.4       | 0.9      | 1.7       | 3.6       | 19        | <0.1      | 0.3       | <0.1      | 91       | 0.36    |
| JPR 83720 | Soil                             |           | 1.5       | 48.9      | 8.7       | 70        | <0.1      | 54.4      | 11.2      | 574       | 3.23    | 66.5      | 1.3      | 5.1       | 4.6       | 21        | 0.2       | 3.8       | 0.2       | 57       | 0.23    |
| JPR 83721 | Soil                             |           | 0.8       | 154.9     | 4.6       | 66        | <0.1      | 147.2     | 48.4      | 1136      | 5.34    | 3.9       | 1.0      | 3.6       | 7.1       | 15        | 0.1       | 0.2       | 0.1       | 162      | 0.42    |
| JPR 85304 | Soil                             |           | 3.7       | 191.8     | 6.4       | 109       | <0.1      | 223.9     | 46.4      | 2236      | 7.89    | 0.6       | 1.5      | 1.4       | 7.6       | 40        | 0.2       | 0.4       | <0.1      | 172      | 0.79    |
| JPR 85305 | Soil                             |           | 2.5       | 111.6     | 3.5       | 177       | <0.1      | 179.9     | 21.3      | 402       | 4.87    | 2.2       | 1.9      | 0.6       | 7.2       | 29        | 0.3       | 0.2       | <0.1      | 184      | 0.45    |
| JPR 85306 | Soil                             |           | 2.1       | 68.1      | 8.6       | 120       | <0.1      | 149.6     | 21.8      | 568       | 4.14    | 30.8      | 1.4      | 2.6       | 6.0       | 23        | 0.3       | 1.4       | 0.1       | 106      | 0.27    |
| JPR 85307 | Soil                             |           | 1.2       | 53.4      | 6.6       | 83        | <0.1      | 146.2     | 20.2      | 454       | 3.69    | 7.3       | 1.6      | 2.3       | 5.0       | 32        | <0.1      | 0.5       | 0.1       | 89       | 0.43    |



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Report Date: December 14, 2009

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## CERTIFICATE OF ANALYSIS

VAN09005585.1

|           | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|           |                                  | P     | 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   |
|           |                                  | 0.001 | 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   |
| JPR 83505 | Soil                             | 0.065 | 27    | 245   | 2.10  | 879   | 0.210 | <1    | 3.58  | 0.013 | 0.75  | <0.1  | <0.01 | 7.0   | 0.4   | <0.05 | 11    | 0.7   |
| JPR 83506 | Soil                             | 0.078 | 32    | 175   | 1.84  | 805   | 0.220 | 1     | 3.61  | 0.020 | 0.88  | <0.1  | <0.01 | 6.4   | 0.4   | 0.20  | 11    | 0.9   |
| JPR 83508 | Soil                             | 0.024 | 18    | 190   | 1.49  | 338   | 0.135 | 1     | 2.85  | 0.011 | 0.08  | 0.1   | 0.02  | 7.1   | 0.1   | <0.05 | 8     | <0.5  |
| JPR 83511 | Soil                             | 0.038 | 16    | 38    | 0.67  | 273   | 0.124 | <1    | 2.17  | 0.010 | 0.25  | 0.1   | 0.03  | 4.3   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 83512 | Soil                             | 0.088 | 22    | 94    | 1.12  | 327   | 0.296 | <1    | 3.63  | 0.010 | 0.79  | <0.1  | 0.02  | 6.0   | 0.5   | <0.05 | 11    | 0.7   |
| JPR 83513 | Soil                             | 0.044 | 18    | 57    | 0.74  | 308   | 0.122 | <1    | 2.30  | 0.010 | 0.22  | 0.1   | 0.03  | 5.3   | 0.2   | <0.05 | 6     | 0.5   |
| JPR 83514 | Soil                             | 0.046 | 17    | 47    | 0.64  | 247   | 0.117 | 2     | 2.62  | 0.012 | 0.15  | 0.2   | 0.02  | 5.4   | 0.2   | <0.05 | 7     | 0.5   |
| JPR 83515 | Soil                             | 0.048 | 20    | 35    | 0.58  | 326   | 0.108 | <1    | 2.00  | 0.013 | 0.16  | 0.1   | 0.03  | 5.7   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 83551 | Soil                             | 0.169 | 25    | 88    | 1.14  | 282   | 0.139 | <1    | 2.66  | 0.012 | 0.47  | 0.1   | 0.01  | 6.5   | 0.3   | <0.05 | 9     | 0.5   |
| JPR 83552 | Soil                             | 0.092 | 44    | 105   | 1.47  | 394   | 0.191 | <1    | 3.31  | 0.021 | 0.58  | <0.1  | <0.01 | 7.5   | 0.4   | <0.05 | 12    | 1.1   |
| JPR 83553 | Soil                             | 0.098 | 19    | 121   | 1.54  | 575   | 0.238 | <1    | 3.17  | 0.016 | 0.86  | 0.1   | <0.01 | 7.7   | 0.4   | <0.05 | 12    | 0.6   |
| JPR 83554 | Soil                             | 0.051 | 22    | 77    | 1.07  | 441   | 0.165 | <1    | 2.86  | 0.015 | 0.54  | <0.1  | 0.01  | 6.4   | 0.3   | <0.05 | 9     | 0.6   |
| JPR 83555 | Soil                             | 0.064 | 29    | 63    | 0.52  | 366   | 0.074 | 2     | 1.41  | 0.010 | 0.43  | <0.1  | 0.01  | 6.8   | 0.2   | <0.05 | 5     | 1.6   |
| JPR 83556 | Soil                             | 0.112 | 24    | 148   | 1.59  | 728   | 0.218 | <1    | 2.96  | 0.011 | 1.02  | 0.1   | <0.01 | 8.8   | 0.4   | <0.05 | 11    | 1.1   |
| JPR 83710 | Soil                             | 0.043 | 16    | 59    | 0.76  | 421   | 0.128 | 1     | 2.47  | 0.014 | 0.19  | 0.2   | 0.04  | 5.0   | 0.1   | <0.05 | 6     | <0.5  |
| JPR 83711 | Soil                             | 0.132 | 21    | 182   | 1.90  | 882   | 0.251 | <1    | 3.59  | 0.010 | 1.07  | <0.1  | 0.01  | 7.7   | 0.4   | <0.05 | 11    | 0.7   |
| JPR 83712 | Soil                             | 0.147 | 33    | 151   | 1.47  | 897   | 0.218 | <1    | 3.37  | 0.014 | 1.13  | <0.1  | <0.01 | 8.3   | 0.4   | <0.05 | 10    | <0.5  |
| JPR 83713 | Soil                             | 0.119 | 21    | 180   | 1.78  | 545   | 0.294 | <1    | 3.48  | 0.016 | 1.01  | <0.1  | <0.01 | 8.7   | 0.4   | 0.07  | 11    | <0.5  |
| JPR 83714 | Soil                             | 0.131 | 36    | 112   | 1.79  | 535   | 0.308 | <1    | 3.47  | 0.013 | 1.57  | <0.1  | <0.01 | 10.0  | 0.6   | <0.05 | 14    | 0.7   |
| JPR 83715 | Soil                             | 0.096 | 22    | 115   | 1.58  | 490   | 0.328 | <1    | 3.43  | 0.016 | 0.82  | <0.1  | <0.01 | 6.8   | 0.3   | <0.05 | 11    | <0.5  |
| JPR 83716 | Soil                             | 0.072 | 10    | 65    | 1.06  | 357   | 0.199 | 9     | 2.72  | 0.014 | 0.53  | 0.1   | 0.02  | 5.0   | 0.2   | <0.05 | 9     | <0.5  |
| JPR 83717 | Soil                             | 0.034 | 29    | 128   | 1.52  | 553   | 0.219 | <1    | 2.80  | 0.015 | 0.47  | <0.1  | 0.02  | 7.7   | 0.2   | <0.05 | 9     | 0.8   |
| JPR 83718 | Soil                             | 0.085 | 11    | 78    | 1.44  | 531   | 0.254 | <1    | 2.93  | 0.026 | 0.71  | <0.1  | <0.01 | 10.4  | 0.2   | <0.05 | 10    | <0.5  |
| JPR 83719 | Soil                             | 0.040 | 20    | 126   | 1.13  | 491   | 0.196 | <1    | 2.56  | 0.023 | 0.32  | <0.1  | 0.02  | 6.7   | 0.2   | <0.05 | 7     | <0.5  |
| JPR 83720 | Soil                             | 0.046 | 19    | 38    | 0.44  | 415   | 0.060 | 1     | 1.67  | 0.012 | 0.09  | 0.1   | 0.05  | 6.6   | <0.1  | <0.05 | 5     | 0.6   |
| JPR 83721 | Soil                             | 0.158 | 30    | 132   | 1.48  | 608   | 0.230 | <1    | 3.49  | 0.010 | 0.82  | <0.1  | <0.01 | 8.6   | 0.4   | <0.05 | 9     | <0.5  |
| JPR 85304 | Soil                             | 0.187 | 29    | 213   | 1.99  | 1283  | 0.226 | <1    | 3.58  | 0.022 | 0.59  | <0.1  | 0.01  | 15.8  | 0.2   | <0.05 | 12    | 1.2   |
| JPR 85305 | Soil                             | 0.125 | 20    | 284   | 2.09  | 1710  | 0.277 | <1    | 3.10  | 0.023 | 0.92  | <0.1  | <0.01 | 10.0  | 0.6   | 0.14  | 11    | 1.6   |
| JPR 85306 | Soil                             | 0.076 | 24    | 180   | 1.27  | 354   | 0.100 | 1     | 2.51  | 0.013 | 0.14  | <0.1  | 0.02  | 5.9   | 0.1   | <0.05 | 8     | 0.7   |
| JPR 85307 | Soil                             | 0.081 | 24    | 172   | 1.62  | 557   | 0.159 | <1    | 2.47  | 0.016 | 0.16  | 0.1   | 0.03  | 6.3   | 0.2   | <0.05 | 7     | 0.5   |



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Report Date: December 14, 2009

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## CERTIFICATE OF ANALYSIS

VAN09005585.1

|           | Method<br>Analyte<br>Unit<br>MDL | WGHT | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|           |                                  | Wgt  | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    |
|           |                                  | kg   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     |
|           |                                  | 0.01 | 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  |
| JPR 85308 | Soil                             |      | 1.6   | 29.0  | 9.4   | 62    | <0.1  | 35.7  | 10.3  | 301   | 3.31  | 9.9   | 0.8   | 1.6   | 4.2   | 18    | 0.1   | 0.5   | 0.2   | 77    | 0.18  |
| JPR 85309 | Soil                             |      | 2.8   | 87.0  | 8.6   | 105   | <0.1  | 90.9  | 27.3  | 1179  | 5.24  | 20.9  | 0.9   | 7.4   | 4.8   | 19    | 0.1   | 0.9   | <0.1  | 127   | 0.33  |
| JPR 85310 | Soil                             |      | 1.0   | 48.2  | 7.1   | 77    | <0.1  | 155.6 | 25.7  | 538   | 3.87  | 7.3   | 1.3   | 1.5   | 6.1   | 47    | 0.1   | 0.4   | 0.1   | 83    | 0.71  |
| JPR 85311 | Soil                             |      | 1.5   | 42.2  | 8.4   | 67    | <0.1  | 39.0  | 12.4  | 377   | 3.35  | 10.6  | 1.1   | 5.0   | 5.0   | 19    | <0.1  | 0.6   | 0.1   | 74    | 0.20  |
| JPR 85312 | Soil                             |      | 1.8   | 44.6  | 9.6   | 68    | <0.1  | 34.7  | 11.9  | 319   | 3.49  | 12.0  | 1.3   | 2.7   | 5.3   | 17    | <0.1  | 0.6   | 0.2   | 76    | 0.15  |
| JPR 85313 | Soil                             |      | 2.2   | 55.7  | 8.4   | 75    | <0.1  | 37.7  | 13.5  | 475   | 3.56  | 9.7   | 1.3   | 4.7   | 5.3   | 17    | 0.2   | 0.6   | 0.1   | 68    | 0.14  |
| JPR 85314 | Soil                             |      | 2.1   | 62.5  | 7.6   | 100   | <0.1  | 66.8  | 17.7  | 546   | 4.33  | 8.3   | 1.5   | 0.9   | 5.8   | 19    | 0.1   | 0.4   | 0.1   | 95    | 0.20  |
| JPR 85315 | Soil                             |      | 1.6   | 76.3  | 7.0   | 84    | <0.1  | 77.7  | 17.0  | 513   | 4.06  | 7.8   | 1.1   | 2.3   | 4.3   | 20    | <0.1  | 0.5   | 0.1   | 96    | 0.30  |
| JPR 85342 | Soil                             |      | 0.3   | 35.6  | 1.8   | 57    | <0.1  | 150.5 | 14.7  | 512   | 2.48  | 2.1   | 0.2   | <0.5  | 1.3   | 10    | <0.1  | 0.1   | <0.1  | 58    | 0.19  |
| JPR 85343 | Soil                             |      | 0.4   | 42.6  | 4.0   | 65    | <0.1  | 194.0 | 26.1  | 506   | 3.90  | 3.2   | 0.4   | <0.5  | 4.5   | 49    | <0.1  | 0.2   | <0.1  | 79    | 0.96  |
| JPR 85344 | Soil                             |      | 2.0   | 111.4 | 6.5   | 117   | <0.1  | 68.7  | 20.4  | 1320  | 4.49  | 3.6   | 0.8   | <0.5  | 6.0   | 24    | 0.2   | 0.2   | 0.1   | 116   | 0.44  |
| JPR 85345 | Soil                             |      | 2.1   | 66.5  | 7.5   | 85    | 0.1   | 50.3  | 13.0  | 564   | 4.03  | 9.9   | 0.9   | <0.5  | 5.4   | 21    | 0.1   | 0.4   | 0.1   | 98    | 0.27  |
| JPR 85346 | Soil                             |      | 0.7   | 48.7  | 5.5   | 63    | <0.1  | 99.7  | 18.0  | 559   | 3.55  | 3.8   | 0.5   | <0.5  | 3.1   | 20    | <0.1  | 0.2   | <0.1  | 91    | 0.42  |
| JPR 85347 | Soil                             |      | 2.2   | 87.9  | 7.5   | 90    | <0.1  | 68.9  | 13.4  | 575   | 4.10  | 10.5  | 0.8   | 0.7   | 4.0   | 18    | <0.1  | 0.4   | 0.1   | 111   | 0.21  |
| JPR 85348 | Soil                             |      | 0.6   | 27.7  | 3.7   | 45    | <0.1  | 73.3  | 18.4  | 291   | 2.97  | 3.5   | 0.3   | <0.5  | 1.8   | 19    | <0.1  | 0.2   | <0.1  | 62    | 0.51  |
| JPR 85349 | Soil                             |      | 0.4   | 11.6  | 5.5   | 42    | <0.1  | 13.2  | 8.7   | 394   | 1.91  | 3.8   | 0.3   | <0.5  | 2.4   | 21    | <0.1  | 0.2   | 0.1   | 40    | 1.53  |
| JPR 85350 | Soil                             |      | 0.2   | 119.0 | 2.9   | 14    | <0.1  | 87.8  | 24.0  | 256   | 1.69  | 2.9   | 0.4   | 0.7   | 1.0   | 42    | <0.1  | 0.1   | <0.1  | 20    | 4.34  |
| JPR 85351 | Soil                             |      | 0.3   | 9.7   | 4.7   | 27    | <0.1  | 12.4  | 5.6   | 174   | 1.37  | 3.7   | 0.5   | 1.1   | 1.1   | 30    | 0.1   | 0.2   | <0.1  | 28    | 3.70  |
| JPR 85730 | Soil                             |      | 1.5   | 86.7  | 12.1  | 92    | <0.1  | 96.7  | 25.6  | 1044  | 5.53  | 8.2   | 0.9   | 1.2   | 4.3   | 16    | 0.1   | 0.9   | 0.1   | 133   | 0.21  |
| JPR 85731 | Soil                             |      | 1.2   | 62.7  | 12.7  | 76    | <0.1  | 53.9  | 13.4  | 547   | 3.79  | 11.1  | 1.1   | 1.9   | 4.4   | 20    | 0.1   | 0.8   | 0.2   | 84    | 0.18  |
| JPR 85732 | Soil                             |      | 1.1   | 63.1  | 12.8  | 78    | <0.1  | 46.1  | 15.5  | 806   | 3.76  | 9.0   | 1.1   | 3.6   | 4.7   | 22    | <0.1  | 0.8   | 0.2   | 80    | 0.22  |
| JPR 85733 | Soil                             |      | 1.1   | 62.2  | 11.7  | 72    | <0.1  | 40.2  | 19.6  | 1099  | 4.05  | 7.7   | 0.9   | 1.4   | 4.7   | 14    | 0.2   | 0.6   | 0.2   | 85    | 0.15  |
| JPR 85734 | Soil                             |      | 1.2   | 29.0  | 10.4  | 68    | 0.1   | 35.4  | 12.4  | 439   | 3.68  | 10.4  | 0.6   | 1.1   | 3.1   | 16    | 0.2   | 0.6   | 0.2   | 80    | 0.15  |
| JPR 85735 | Soil                             |      | 1.6   | 94.6  | 15.0  | 93    | <0.1  | 46.9  | 14.8  | 1789  | 3.93  | 12.7  | 0.7   | 1.1   | 3.4   | 13    | 0.2   | 0.5   | 0.2   | 47    | 0.09  |
| JPR 85736 | Soil                             |      | 0.7   | 29.6  | 12.3  | 52    | <0.1  | 20.4  | 7.4   | 434   | 2.29  | 5.0   | 1.3   | 2.3   | 3.3   | 21    | 0.2   | 0.3   | 0.2   | 42    | 0.25  |
| JPR 85737 | Soil                             |      | 2.0   | 57.9  | 12.2  | 108   | <0.1  | 59.6  | 14.3  | 572   | 4.71  | 10.2  | 1.0   | 0.8   | 4.1   | 27    | 0.3   | 0.5   | 0.2   | 68    | 0.07  |
| JPR 85738 | Soil                             |      | 1.3   | 26.2  | 11.3  | 69    | <0.1  | 25.6  | 11.1  | 551   | 3.56  | 11.5  | 0.7   | 0.9   | 3.6   | 18    | 0.3   | 0.6   | 0.2   | 66    | 0.08  |
| JPR 85739 | Soil                             |      | 1.2   | 36.8  | 13.5  | 100   | <0.1  | 115.4 | 21.9  | 587   | 4.58  | 9.7   | 1.5   | 2.2   | 4.9   | 23    | 0.1   | 0.5   | 0.2   | 79    | 0.16  |
| JPR 85740 | Soil                             |      | 0.9   | 71.0  | 11.6  | 80    | <0.1  | 62.9  | 19.3  | 887   | 4.41  | 10.4  | 1.3   | 2.1   | 5.1   | 20    | 0.2   | 0.5   | 0.2   | 92    | 0.19  |
| JPR 85741 | Soil                             |      | 0.7   | 39.8  | 8.0   | 58    | <0.1  | 32.6  | 9.9   | 383   | 2.78  | 9.8   | 0.9   | 3.2   | 4.8   | 29    | <0.1  | 0.6   | 0.2   | 65    | 0.32  |





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Project: JPR  
Report Date: December 14, 2009

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## CERTIFICATE OF ANALYSIS

VAN09005585.1

|           | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|           |                                  | P     | 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   |
|           |                                  | 0.001 | 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   |
| JPR 85308 | Soil                             | 0.034 | 15    | 59    | 0.68  | 302   | 0.114 | <1    | 2.07  | 0.012 | 0.09  | 0.1   | 0.02  | 4.1   | 0.1   | <0.05 | 7     | <0.5  |
| JPR 85309 | Soil                             | 0.122 | 15    | 122   | 1.43  | 429   | 0.166 | <1    | 3.06  | 0.012 | 0.49  | <0.1  | 0.01  | 6.6   | 0.2   | <0.05 | 10    | 0.6   |
| JPR 85310 | Soil                             | 0.199 | 32    | 219   | 1.75  | 444   | 0.166 | <1    | 2.34  | 0.014 | 0.36  | 0.1   | 0.02  | 5.9   | 0.2   | <0.05 | 7     | <0.5  |
| JPR 85311 | Soil                             | 0.045 | 19    | 61    | 0.74  | 332   | 0.110 | 1     | 1.96  | 0.015 | 0.17  | 0.1   | 0.03  | 4.6   | 0.1   | <0.05 | 6     | <0.5  |
| JPR 85312 | Soil                             | 0.036 | 17    | 53    | 0.69  | 262   | 0.118 | 1     | 2.29  | 0.012 | 0.13  | 0.1   | 0.03  | 4.1   | 0.1   | <0.05 | 7     | <0.5  |
| JPR 85313 | Soil                             | 0.050 | 19    | 53    | 0.78  | 310   | 0.142 | 2     | 2.02  | 0.015 | 0.34  | 0.3   | 0.02  | 3.6   | 0.2   | 0.06  | 6     | 0.7   |
| JPR 85314 | Soil                             | 0.081 | 21    | 110   | 1.23  | 381   | 0.198 | <1    | 2.58  | 0.013 | 0.57  | 0.1   | 0.01  | 4.8   | 0.3   | 0.06  | 9     | 0.5   |
| JPR 85315 | Soil                             | 0.067 | 17    | 110   | 1.28  | 480   | 0.172 | <1    | 2.37  | 0.013 | 0.35  | <0.1  | 0.01  | 5.5   | 0.2   | <0.05 | 9     | 0.6   |
| JPR 85342 | Soil                             | 0.038 | 6     | 201   | 1.50  | 166   | 0.142 | <1    | 1.98  | 0.008 | 0.10  | <0.1  | <0.01 | 3.7   | 0.1   | <0.05 | 6     | <0.5  |
| JPR 85343 | Soil                             | 0.357 | 34    | 248   | 2.34  | 604   | 0.226 | <1    | 2.96  | 0.012 | 0.68  | <0.1  | <0.01 | 3.4   | 0.3   | <0.05 | 8     | <0.5  |
| JPR 85344 | Soil                             | 0.170 | 18    | 76    | 1.18  | 807   | 0.210 | <1    | 2.46  | 0.009 | 0.88  | <0.1  | <0.01 | 6.4   | 0.3   | <0.05 | 10    | 0.6   |
| JPR 85345 | Soil                             | 0.076 | 16    | 72    | 1.01  | 487   | 0.125 | <1    | 2.36  | 0.015 | 0.35  | 0.1   | <0.01 | 4.8   | 0.2   | <0.05 | 8     | 0.8   |
| JPR 85346 | Soil                             | 0.107 | 16    | 126   | 1.68  | 799   | 0.273 | <1    | 2.84  | 0.015 | 0.54  | <0.1  | <0.01 | 4.8   | 0.2   | <0.05 | 10    | <0.5  |
| JPR 85347 | Soil                             | 0.061 | 16    | 89    | 1.23  | 633   | 0.159 | <1    | 2.62  | 0.011 | 0.26  | 0.1   | <0.01 | 5.0   | 0.2   | <0.05 | 9     | 0.7   |
| JPR 85348 | Soil                             | 0.110 | 9     | 101   | 1.30  | 248   | 0.180 | <1    | 2.15  | 0.021 | 0.21  | <0.1  | <0.01 | 2.2   | 0.1   | <0.05 | 6     | <0.5  |
| JPR 85349 | Soil                             | 0.067 | 10    | 24    | 1.66  | 213   | 0.044 | 2     | 1.69  | 0.009 | 0.03  | <0.1  | 0.01  | 3.7   | <0.1  | <0.05 | 4     | <0.5  |
| JPR 85350 | Soil                             | 0.287 | 8     | 20    | 2.13  | 81    | 0.042 | 1     | 0.53  | 0.007 | 0.01  | 0.1   | 0.01  | 2.0   | <0.1  | <0.05 | 1     | <0.5  |
| JPR 85351 | Soil                             | 0.077 | 8     | 17    | 2.13  | 212   | 0.031 | 3     | 1.05  | 0.009 | 0.03  | 0.1   | 0.02  | 2.2   | <0.1  | <0.05 | 2     | <0.5  |
| JPR 85730 | Soil                             | 0.074 | 17    | 165   | 1.88  | 481   | 0.272 | 2     | 3.75  | 0.010 | 0.75  | <0.1  | 0.01  | 9.4   | 0.3   | <0.05 | 12    | <0.5  |
| JPR 85731 | Soil                             | 0.026 | 14    | 66    | 0.84  | 375   | 0.104 | 1     | 2.59  | 0.010 | 0.11  | 0.1   | 0.02  | 5.0   | 0.1   | <0.05 | 7     | <0.5  |
| JPR 85732 | Soil                             | 0.034 | 17    | 59    | 0.89  | 343   | 0.140 | 2     | 2.31  | 0.012 | 0.15  | 0.2   | 0.02  | 6.1   | 0.1   | <0.05 | 7     | <0.5  |
| JPR 85733 | Soil                             | 0.095 | 15    | 56    | 0.83  | 354   | 0.165 | 1     | 2.61  | 0.010 | 0.32  | 0.1   | 0.02  | 5.4   | 0.2   | <0.05 | 9     | <0.5  |
| JPR 85734 | Soil                             | 0.048 | 12    | 55    | 0.68  | 249   | 0.107 | 1     | 2.04  | 0.012 | 0.10  | 0.1   | 0.01  | 4.1   | 0.1   | <0.05 | 7     | <0.5  |
| JPR 85735 | Soil                             | 0.062 | 21    | 23    | 0.23  | 188   | 0.019 | 3     | 0.85  | 0.009 | 0.13  | 0.2   | 0.01  | 4.6   | <0.1  | <0.05 | 4     | <0.5  |
| JPR 85736 | Soil                             | 0.048 | 23    | 30    | 0.40  | 262   | 0.034 | 3     | 1.33  | 0.010 | 0.10  | 0.1   | 0.02  | 4.3   | <0.1  | <0.05 | 4     | <0.5  |
| JPR 85737 | Soil                             | 0.046 | 14    | 33    | 0.28  | 180   | 0.025 | 2     | 1.61  | 0.007 | 0.07  | 0.1   | 0.02  | 3.6   | 0.1   | <0.05 | 6     | <0.5  |
| JPR 85738 | Soil                             | 0.063 | 13    | 34    | 0.42  | 187   | 0.056 | 2     | 1.77  | 0.008 | 0.11  | 0.2   | 0.02  | 3.2   | 0.1   | <0.05 | 6     | <0.5  |
| JPR 85739 | Soil                             | 0.055 | 21    | 97    | 0.86  | 463   | 0.088 | 2     | 2.66  | 0.011 | 0.40  | 0.1   | 0.01  | 7.9   | 0.2   | <0.05 | 9     | <0.5  |
| JPR 85740 | Soil                             | 0.040 | 22    | 85    | 1.11  | 527   | 0.172 | 4     | 2.73  | 0.016 | 0.45  | 0.1   | 0.03  | 9.7   | 0.3   | <0.05 | 9     | 0.6   |
| JPR 85741 | Soil                             | 0.051 | 18    | 42    | 0.66  | 448   | 0.123 | 1     | 1.74  | 0.019 | 0.09  | 0.1   | 0.04  | 6.0   | <0.1  | <0.05 | 5     | <0.5  |



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## CERTIFICATE OF ANALYSIS

VAN09005585.1

|           | Method | Analyte | Unit | MDL | WGHT | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |     |      |      |
|-----------|--------|---------|------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|------|------|
|           |        |         |      |     | Wgt  | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi  | V    | Ca   |
|           |        |         |      |     | kg   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm | ppm  | %    |
|           |        |         |      |     | 0.01 | 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 |
| JPR 86245 | Soil   |         |      |     | 2.3  | 101.6 | 7.0   | 84    | <0.1  | 92.7  | 21.7  | 581   | 5.70  | 17.1  | 2.5   | 7.1   | 11.0  | 16    | 0.1   | 0.7   | 1.4   | 123 | 0.11 |      |
| JPR 86246 | Soil   |         |      |     | 2.8  | 114.4 | 6.7   | 58    | <0.1  | 97.4  | 23.2  | 401   | 5.22  | 11.8  | 2.4   | 1.1   | 12.4  | 23    | <0.1  | 0.5   | 0.3   | 160 | 0.31 |      |
| JPR 86247 | Soil   |         |      |     | 1.8  | 66.9  | 8.0   | 73    | 0.2   | 52.6  | 17.6  | 448   | 4.08  | 18.3  | 1.5   | 5.1   | 5.6   | 18    | 0.2   | 0.5   | 0.5   | 99  | 0.24 |      |
| JPR 86248 | Soil   |         |      |     | 1.8  | 120.7 | 5.4   | 113   | <0.1  | 107.7 | 26.6  | 983   | 6.33  | 8.5   | 2.7   | 1.3   | 6.2   | 18    | <0.1  | 0.1   | 0.6   | 172 | 0.24 |      |
| JPR 86249 | Soil   |         |      |     | 2.0  | 117.3 | 5.2   | 98    | <0.1  | 99.6  | 25.5  | 855   | 5.97  | 7.6   | 2.7   | 2.0   | 7.3   | 19    | <0.1  | 0.1   | 0.6   | 157 | 0.23 |      |
| JPR 86250 | Soil   |         |      |     | 2.3  | 94.9  | 8.1   | 102   | 0.1   | 72.4  | 19.9  | 523   | 4.93  | 22.2  | 2.0   | 8.2   | 7.4   | 21    | 0.2   | 0.4   | 1.6   | 123 | 0.19 |      |
| JPR 86441 | Soil   |         |      |     | 0.3  | 33.2  | 4.8   | 60    | <0.1  | 36.6  | 17.7  | 449   | 4.04  | 9.9   | 1.4   | 0.6   | 18.2  | 21    | <0.1  | 0.2   | 0.2   | 61  | 0.28 |      |
| JPR 86442 | Soil   |         |      |     | 0.7  | 40.2  | 9.5   | 69    | <0.1  | 37.3  | 14.6  | 388   | 4.26  | 17.8  | 1.4   | 4.4   | 14.8  | 27    | <0.1  | 0.5   | 0.3   | 60  | 0.30 |      |
| JPR 86714 | Soil   |         |      |     | 1.3  | 15.2  | 7.6   | 81    | <0.1  | 11.2  | 13.6  | 575   | 3.48  | 4.7   | 0.8   | 2.2   | 6.2   | 17    | <0.1  | 0.2   | 0.2   | 77  | 0.24 |      |
| JPR 86715 | Soil   |         |      |     | 1.7  | 18.3  | 7.2   | 80    | <0.1  | 11.3  | 14.9  | 614   | 3.77  | 3.7   | 0.7   | 1.7   | 5.7   | 14    | 0.1   | 0.2   | 0.2   | 84  | 0.26 |      |
| JPR 87148 | Soil   |         |      |     | 1.2  | 27.2  | 11.8  | 78    | <0.1  | 15.1  | 12.2  | 790   | 4.05  | 3.7   | 1.3   | 8.2   | 23.7  | 21    | <0.1  | 0.4   | 0.2   | 73  | 0.29 |      |
| JPR 87149 | Soil   |         |      |     | 1.9  | 34.1  | 5.5   | 73    | <0.1  | 10.7  | 15.5  | 655   | 3.91  | 3.5   | 0.9   | 1.2   | 9.9   | 19    | <0.1  | 0.3   | 0.3   | 86  | 0.24 |      |
| JPR 87150 | Soil   |         |      |     | 0.9  | 23.3  | 9.1   | 52    | <0.1  | 16.2  | 9.5   | 377   | 2.49  | 6.3   | 0.7   | 2.5   | 8.9   | 25    | <0.1  | 0.5   | 0.2   | 53  | 0.29 |      |
| JPR 87210 | Soil   |         |      |     | 0.7  | 16.1  | 2.0   | 78    | <0.1  | 11.7  | 22.9  | 945   | 5.08  | 0.6   | 0.8   | 0.8   | 6.5   | 23    | <0.1  | 0.1   | <0.1  | 113 | 0.46 |      |
| JPR 87211 | Soil   |         |      |     | 1.5  | 20.7  | 5.9   | 72    | <0.1  | 16.2  | 18.5  | 614   | 4.49  | 4.6   | 0.9   | 3.2   | 5.7   | 16    | <0.1  | 0.3   | 0.1   | 98  | 0.25 |      |
| JPR 87212 | Soil   |         |      |     | 2.5  | 22.1  | 6.1   | 82    | <0.1  | 14.0  | 22.1  | 850   | 5.73  | 2.0   | 1.5   | 30.6  | 10.1  | 14    | <0.1  | 0.3   | <0.1  | 110 | 0.24 |      |
| JPR 87213 | Soil   |         |      |     | 1.3  | 24.7  | 5.0   | 102   | <0.1  | 16.5  | 27.9  | 1209  | 5.57  | 2.1   | 0.8   | 3.6   | 5.5   | 45    | <0.1  | 0.3   | <0.1  | 130 | 0.66 |      |
| JPR 87214 | Soil   |         |      |     | 16.9 | 31.6  | 11.7  | 93    | 0.2   | 20.3  | 23.4  | 1210  | 4.98  | 3.8   | 0.8   | 34.6  | 6.4   | 20    | 0.3   | 0.4   | 0.2   | 119 | 0.51 |      |
| JPR 87215 | Soil   |         |      |     | 1.4  | 47.5  | 2.7   | 88    | 0.2   | 15.8  | 22.3  | 1064  | 4.94  | 9.1   | 1.4   | 6.0   | 9.7   | 16    | 0.1   | 0.3   | <0.1  | 128 | 0.65 |      |
| JPR 87216 | Soil   |         |      |     | 1.2  | 34.8  | 10.8  | 80    | 0.1   | 29.4  | 13.6  | 562   | 3.11  | 10.0  | 0.7   | 4.0   | 5.2   | 34    | 0.4   | 0.7   | 0.2   | 66  | 0.62 |      |
| JPR 87217 | Soil   |         |      |     | 3.8  | 15.1  | 10.9  | 73    | 0.4   | 11.2  | 28.7  | 2680  | 5.21  | 148.1 | 1.5   | 114.9 | 9.5   | 12    | 0.2   | 0.5   | <0.1  | 47  | 0.26 |      |
| JPR 87218 | Soil   |         |      |     | 3.9  | 22.9  | 19.9  | 104   | 0.1   | 15.3  | 22.5  | 774   | 5.08  | 38.7  | 0.8   | 142.1 | 6.4   | 14    | 0.2   | 0.3   | <0.1  | 107 | 0.20 |      |
| JPR 87219 | Soil   |         |      |     | 1.7  | 16.9  | 4.3   | 80    | <0.1  | 15.6  | 23.4  | 940   | 5.12  | 12.9  | 0.5   | 2.9   | 4.7   | 30    | <0.1  | 0.2   | <0.1  | 104 | 0.49 |      |
| JPR 87228 | Soil   |         |      |     | 0.3  | 17.6  | 13.0  | 77    | 0.2   | 12.2  | 29.6  | 1342  | 5.10  | 1.3   | 0.5   | 12.7  | 4.5   | 21    | 0.3   | 0.1   | 0.2   | 97  | 0.63 |      |
| JPR 87230 | Soil   |         |      |     | 0.4  | 22.4  | 9.5   | 87    | 0.2   | 12.4  | 16.5  | 692   | 4.52  | 2.3   | 0.8   | 38.6  | 7.6   | 26    | 0.2   | 0.2   | 0.8   | 126 | 0.52 |      |
| JPR 87294 | Soil   |         |      |     | 0.2  | 11.6  | 4.2   | 74    | <0.1  | 14.8  | 19.1  | 786   | 5.08  | 1.4   | 0.7   | 1.8   | 3.5   | 30    | <0.1  | 0.1   | 0.1   | 105 | 0.74 |      |
| JPR 87295 | Soil   |         |      |     | 0.7  | 18.7  | 7.1   | 80    | <0.1  | 18.2  | 17.0  | 591   | 3.92  | 5.7   | 0.8   | 2.0   | 5.1   | 21    | <0.1  | 0.3   | 0.2   | 79  | 0.24 |      |
| JPR 87301 | Soil   |         |      |     | 0.7  | 33.8  | 9.6   | 54    | <0.1  | 25.2  | 10.1  | 331   | 3.01  | 12.2  | 1.1   | 6.1   | 7.3   | 21    | <0.1  | 0.7   | 0.2   | 63  | 0.19 |      |
| JPR 87302 | Soil   |         |      |     | 1.3  | 19.9  | 8.9   | 63    | <0.1  | 19.7  | 8.7   | 351   | 3.44  | 9.2   | 0.6   | 1.3   | 4.3   | 16    | <0.1  | 0.5   | 0.2   | 57  | 0.15 |      |
| JPR 87303 | Soil   |         |      |     | 1.0  | 32.2  | 7.4   | 66    | <0.1  | 23.6  | 10.7  | 395   | 3.15  | 6.9   | 0.9   | 2.5   | 5.7   | 22    | <0.1  | 0.5   | 0.1   | 58  | 0.23 |      |



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Project: JPR  
Report Date: December 14, 2009

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## CERTIFICATE OF ANALYSIS

VAN09005585.1

|           | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|           |                                  | P     | 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   |
|           |                                  | 0.001 | 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   |
| JPR 86245 | Soil                             | 0.039 | 39    | 93    | 1.16  | 426   | 0.100 | 1     | 3.21  | 0.011 | 0.31  | <0.1  | 0.01  | 7.5   | 0.2   | <0.05 | 9     | 1.2   |
| JPR 86246 | Soil                             | 0.113 | 32    | 111   | 1.46  | 443   | 0.148 | <1    | 3.31  | 0.019 | 0.60  | <0.1  | 0.01  | 7.1   | 0.3   | <0.05 | 11    | 1.4   |
| JPR 86247 | Soil                             | 0.059 | 19    | 90    | 1.17  | 442   | 0.138 | 1     | 2.91  | 0.018 | 0.28  | 0.1   | 0.02  | 6.2   | 0.2   | <0.05 | 8     | 0.7   |
| JPR 86248 | Soil                             | 0.087 | 20    | 174   | 2.02  | 661   | 0.385 | <1    | 4.42  | 0.012 | 1.41  | <0.1  | <0.01 | 12.2  | 0.7   | <0.05 | 15    | 0.8   |
| JPR 86249 | Soil                             | 0.087 | 23    | 156   | 1.86  | 650   | 0.325 | <1    | 4.01  | 0.014 | 1.13  | <0.1  | <0.01 | 10.4  | 0.6   | <0.05 | 13    | 1.0   |
| JPR 86250 | Soil                             | 0.062 | 28    | 102   | 1.30  | 479   | 0.186 | <1    | 3.02  | 0.015 | 0.56  | <0.1  | 0.01  | 7.0   | 0.3   | <0.05 | 10    | 0.8   |
| JPR 86441 | Soil                             | 0.039 | 18    | 58    | 0.99  | 234   | 0.242 | <1    | 2.65  | 0.017 | 0.63  | 0.2   | <0.01 | 6.9   | 0.4   | <0.05 | 9     | <0.5  |
| JPR 86442 | Soil                             | 0.029 | 42    | 49    | 0.88  | 290   | 0.178 | <1    | 2.91  | 0.011 | 0.35  | 0.1   | 0.02  | 6.2   | 0.3   | <0.05 | 8     | <0.5  |
| JPR 86714 | Soil                             | 0.047 | 15    | 20    | 1.02  | 201   | 0.206 | 1     | 2.33  | 0.012 | 0.48  | 0.1   | 0.02  | 3.5   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 86715 | Soil                             | 0.069 | 14    | 19    | 1.10  | 277   | 0.209 | <1    | 2.22  | 0.010 | 0.68  | 0.1   | 0.01  | 3.2   | 0.2   | <0.05 | 5     | <0.5  |
| JPR 87148 | Soil                             | 0.045 | 53    | 15    | 0.98  | 211   | 0.225 | <1    | 2.13  | 0.011 | 0.92  | 0.1   | 0.03  | 6.9   | 0.4   | <0.05 | 8     | <0.5  |
| JPR 87149 | Soil                             | 0.028 | 7     | 17    | 1.01  | 195   | 0.177 | <1    | 2.22  | 0.008 | 0.85  | 0.1   | <0.01 | 6.0   | 0.2   | <0.05 | 8     | <0.5  |
| JPR 87150 | Soil                             | 0.035 | 20    | 24    | 0.56  | 204   | 0.125 | 1     | 1.48  | 0.015 | 0.15  | 0.2   | 0.02  | 3.8   | 0.1   | <0.05 | 4     | <0.5  |
| JPR 87210 | Soil                             | 0.093 | 20    | 28    | 2.10  | 967   | 0.296 | <1    | 3.28  | 0.009 | 1.32  | <0.1  | <0.01 | 7.1   | 0.5   | <0.05 | 8     | <0.5  |
| JPR 87211 | Soil                             | 0.041 | 16    | 34    | 1.54  | 372   | 0.184 | <1    | 2.60  | 0.011 | 0.52  | <0.1  | <0.01 | 5.7   | 0.3   | <0.05 | 7     | <0.5  |
| JPR 87212 | Soil                             | 0.039 | 31    | 30    | 1.78  | 331   | 0.178 | <1    | 2.86  | 0.007 | 0.56  | <0.1  | 0.01  | 9.9   | 0.3   | <0.05 | 9     | <0.5  |
| JPR 87213 | Soil                             | 0.094 | 11    | 36    | 1.98  | 541   | 0.161 | <1    | 3.08  | 0.012 | 0.69  | <0.1  | 0.02  | 7.3   | 0.3   | <0.05 | 9     | <0.5  |
| JPR 87214 | Soil                             | 0.074 | 18    | 28    | 1.69  | 512   | 0.215 | <1    | 2.47  | 0.012 | 0.87  | <0.1  | 0.03  | 8.9   | 0.4   | <0.05 | 8     | <0.5  |
| JPR 87215 | Soil                             | 0.112 | 23    | 28    | 1.42  | 452   | 0.139 | <1    | 2.21  | 0.013 | 0.82  | <0.1  | 0.02  | 11.2  | 0.3   | <0.05 | 9     | <0.5  |
| JPR 87216 | Soil                             | 0.072 | 17    | 33    | 0.73  | 379   | 0.115 | 2     | 1.52  | 0.026 | 0.15  | 0.2   | 0.02  | 4.3   | 0.1   | <0.05 | 5     | <0.5  |
| JPR 87217 | Soil                             | 0.055 | 24    | 14    | 0.84  | 276   | 0.070 | <1    | 1.43  | 0.008 | 0.30  | 0.3   | 0.09  | 6.7   | 0.2   | <0.05 | 4     | <0.5  |
| JPR 87218 | Soil                             | 0.023 | 9     | 32    | 1.68  | 263   | 0.195 | <1    | 2.89  | 0.012 | 0.40  | 0.1   | 0.01  | 5.6   | 0.2   | <0.05 | 8     | <0.5  |
| JPR 87219 | Soil                             | 0.069 | 5     | 37    | 1.86  | 330   | 0.212 | <1    | 3.18  | 0.010 | 0.67  | 0.1   | 0.01  | 4.4   | 0.3   | <0.05 | 8     | <0.5  |
| JPR 87228 | Soil                             | 0.072 | 16    | 31    | 2.13  | 310   | 0.026 | <1    | 3.29  | 0.006 | 0.23  | <0.1  | 0.02  | 6.0   | 0.1   | <0.05 | 9     | <0.5  |
| JPR 87230 | Soil                             | 0.063 | 16    | 31    | 1.83  | 583   | 0.157 | <1    | 2.73  | 0.009 | 0.99  | <0.1  | 0.02  | 14.3  | 0.5   | <0.05 | 10    | <0.5  |
| JPR 87294 | Soil                             | 0.088 | 24    | 44    | 1.73  | 696   | 0.053 | 1     | 3.76  | 0.013 | 0.34  | <0.1  | 0.02  | 12.5  | 0.3   | <0.05 | 9     | <0.5  |
| JPR 87295 | Soil                             | 0.045 | 11    | 37    | 1.23  | 366   | 0.142 | <1    | 2.94  | 0.010 | 0.42  | 0.1   | 0.02  | 4.7   | 0.2   | <0.05 | 7     | <0.5  |
| JPR 87301 | Soil                             | 0.019 | 23    | 40    | 0.58  | 233   | 0.126 | 1     | 1.74  | 0.023 | 0.08  | 0.1   | 0.06  | 8.4   | <0.1  | <0.05 | 5     | <0.5  |
| JPR 87302 | Soil                             | 0.033 | 14    | 31    | 0.53  | 217   | 0.136 | 1     | 2.15  | 0.011 | 0.17  | 0.1   | 0.02  | 3.9   | 0.2   | <0.05 | 7     | <0.5  |
| JPR 87303 | Soil                             | 0.032 | 42    | 33    | 0.72  | 213   | 0.148 | <1    | 1.96  | 0.015 | 0.09  | 0.1   | 0.02  | 5.6   | <0.1  | <0.05 | 6     | <0.5  |



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Report Date: December 14, 2009

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## CERTIFICATE OF ANALYSIS

VAN09005585.1

|           | Method | Analyte | Unit | MDL | WGHT | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |      |    |
|-----------|--------|---------|------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|----|
|           |        |         |      |     | Wgt  | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V    | Ca |
|           |        |         |      |     | kg   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm  | %  |
|           |        |         |      |     | 0.01 | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 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  |
| JPR 87304 | Soil   |         |      |     | 0.4  | 40.1  | 2.7   | 33    | <0.1  | 18.0  | 16.5  | 261   | 2.63  | 4.5   | 0.1   | 0.6   | 0.7   | 27    | <0.1  | 0.2   | <0.1  | 64    | 0.37 |    |
| JPR 87305 | Soil   |         |      |     | 0.6  | 70.0  | 2.1   | 32    | <0.1  | 28.7  | 16.2  | 208   | 2.85  | 2.9   | 0.2   | <0.5  | 1.4   | 17    | <0.1  | 0.2   | <0.1  | 63    | 0.30 |    |
| JPR 87306 | Soil   |         |      |     | 0.4  | 89.9  | 4.2   | 37    | <0.1  | 27.4  | 16.5  | 406   | 2.69  | 3.5   | 0.5   | 1.2   | 2.2   | 47    | <0.1  | 0.3   | <0.1  | 62    | 0.38 |    |
| JPR 87307 | Soil   |         |      |     | 0.3  | 55.4  | 3.9   | 58    | <0.1  | 18.8  | 23.8  | 713   | 4.52  | 3.2   | 0.9   | 2.1   | 2.2   | 34    | <0.1  | 0.3   | <0.1  | 137   | 0.76 |    |
| JPR 87308 | Soil   |         |      |     | 0.5  | 32.1  | 3.3   | 45    | <0.1  | 18.3  | 15.1  | 292   | 3.06  | 3.7   | 0.2   | 1.0   | 1.7   | 25    | <0.1  | 0.2   | 0.1   | 64    | 0.37 |    |
| JPR 87309 | Soil   |         |      |     | 0.5  | 30.4  | 5.1   | 41    | <0.1  | 19.5  | 11.8  | 322   | 2.26  | 4.6   | 0.3   | <0.5  | 1.7   | 40    | <0.1  | 0.3   | <0.1  | 51    | 0.43 |    |
| JPR 87482 | Soil   |         |      |     | 1.0  | 45.7  | 8.9   | 74    | <0.1  | 42.5  | 12.3  | 377   | 3.10  | 6.7   | 0.8   | 1.4   | 4.3   | 31    | 0.1   | 0.6   | 0.2   | 80    | 0.25 |    |
| JPR 87483 | Soil   |         |      |     | 0.9  | 82.5  | 8.1   | 93    | 0.2   | 67.2  | 35.5  | 2211  | 3.34  | 4.6   | 0.8   | 1.4   | 5.1   | 28    | 0.4   | 0.5   | 0.1   | 73    | 0.12 |    |
| JPR 87497 | Soil   |         |      |     | 2.8  | 118.5 | 10.7  | 119   | 0.2   | 55.1  | 32.4  | 1093  | 4.80  | 11.3  | 1.6   | 8.8   | 5.6   | 35    | 0.1   | 0.5   | 0.2   | 149   | 0.32 |    |
| JPR 87498 | Soil   |         |      |     | 1.4  | 83.3  | 7.2   | 96    | <0.1  | 83.8  | 24.4  | 423   | 3.95  | 5.4   | 1.1   | 3.0   | 4.9   | 15    | 0.1   | 0.3   | 0.1   | 127   | 0.12 |    |
| JPR 87499 | Soil   |         |      |     | 1.5  | 113.9 | 6.8   | 114   | <0.1  | 111.3 | 27.4  | 576   | 4.17  | 1.4   | 0.9   | 3.4   | 4.3   | 15    | 0.1   | <0.1  | <0.1  | 165   | 0.12 |    |
| JPR 87567 | Soil   |         |      |     | 0.9  | 14.2  | 11.8  | 45    | <0.1  | 15.5  | 8.7   | 386   | 2.43  | 10.1  | 0.6   | 4.3   | 5.2   | 18    | <0.1  | 0.5   | 0.2   | 51    | 0.20 |    |
| JPR 87568 | Soil   |         |      |     | 0.7  | 22.3  | 10.3  | 47    | 0.1   | 18.5  | 8.1   | 401   | 2.42  | 10.5  | 0.9   | 5.1   | 5.3   | 27    | 0.1   | 0.4   | 0.2   | 55    | 0.33 |    |
| JPR 87569 | Soil   |         |      |     | 0.7  | 25.4  | 17.6  | 76    | <0.1  | 20.3  | 9.6   | 457   | 2.82  | 11.1  | 1.0   | 4.0   | 6.4   | 31    | 0.2   | 0.5   | 0.2   | 59    | 0.46 |    |
| JPR 87570 | Soil   |         |      |     | 0.5  | 25.5  | 11.4  | 56    | <0.1  | 19.0  | 7.1   | 277   | 2.24  | 12.1  | 1.0   | 11.9  | 4.8   | 27    | 0.1   | 0.5   | 0.2   | 49    | 0.36 |    |
| JPR 87571 | Soil   |         |      |     | 0.6  | 23.7  | 12.5  | 46    | 0.1   | 17.8  | 7.5   | 303   | 2.16  | 13.9  | 1.2   | 11.5  | 4.2   | 29    | 0.1   | 0.5   | 0.2   | 41    | 0.42 |    |
| JPR 87572 | Soil   |         |      |     | 0.9  | 19.8  | 14.3  | 49    | 0.1   | 15.3  | 7.2   | 275   | 2.10  | 13.8  | 0.8   | 17.7  | 3.8   | 25    | 0.2   | 0.4   | 0.2   | 39    | 0.31 |    |
| JPR 87573 | Soil   |         |      |     | 0.7  | 21.0  | 12.4  | 50    | 0.1   | 16.1  | 8.2   | 298   | 2.17  | 14.1  | 0.9   | 19.7  | 4.2   | 21    | 0.1   | 0.5   | 0.3   | 43    | 0.28 |    |
| JPR 87574 | Soil   |         |      |     | 1.4  | 17.8  | 8.7   | 102   | 0.1   | 25.7  | 8.1   | 405   | 2.43  | 5.9   | 0.6   | 1.5   | 4.4   | 18    | 1.5   | 0.5   | 0.2   | 46    | 0.23 |    |
| JPR 87843 | Soil   |         |      |     | 1.2  | 36.3  | 23.4  | 60    | 0.4   | 54.7  | 15.7  | 634   | 3.04  | 10.0  | 0.9   | 2.4   | 3.9   | 10    | 0.3   | 0.4   | 0.2   | 81    | 0.12 |    |
| JPR 87844 | Soil   |         |      |     | 2.0  | 50.0  | 7.8   | 117   | <0.1  | 166.4 | 22.6  | 654   | 4.64  | 7.2   | 1.3   | 0.7   | 7.7   | 19    | 0.2   | 0.4   | 0.2   | 118   | 0.27 |    |
| JPR 87845 | Soil   |         |      |     | 0.8  | 29.0  | 8.9   | 51    | 0.1   | 23.1  | 9.2   | 331   | 2.51  | 12.0  | 0.7   | 12.0  | 2.2   | 16    | <0.1  | 0.6   | 0.2   | 54    | 0.17 |    |
| JPR 87846 | Soil   |         |      |     | 1.0  | 32.0  | 10.7  | 66    | <0.1  | 27.7  | 12.8  | 281   | 3.20  | 7.7   | 0.5   | 1.4   | 3.1   | 10    | 0.2   | 0.4   | 0.2   | 74    | 0.11 |    |
| JPR 87847 | Soil   |         |      |     | 3.4  | 33.0  | 19.3  | 68    | <0.1  | 19.8  | 8.6   | 413   | 3.01  | 11.0  | 1.1   | 8.5   | 13.5  | 19    | 0.1   | 0.5   | 0.3   | 60    | 0.26 |    |
| JPR 87848 | Soil   |         |      |     | 3.2  | 21.0  | 9.8   | 68    | 0.1   | 12.3  | 12.2  | 750   | 3.13  | 5.4   | 1.8   | 28.0  | 7.3   | 26    | 0.3   | 0.3   | 0.2   | 62    | 0.64 |    |
| JPR 87849 | Soil   |         |      |     | 1.6  | 30.4  | 10.8  | 65    | 0.4   | 33.3  | 11.1  | 324   | 3.31  | 10.8  | 0.8   | 7.9   | 4.0   | 12    | 0.1   | 0.6   | 0.2   | 77    | 0.11 |    |
| JPR 88208 | Soil   |         |      |     | 1.4  | 17.8  | 7.6   | 56    | <0.1  | 14.5  | 10.9  | 396   | 2.85  | 7.2   | 0.6   | 3.8   | 5.3   | 12    | <0.1  | 0.4   | 0.1   | 61    | 0.14 |    |
| JPR 88209 | Soil   |         |      |     | 1.8  | 29.3  | 5.2   | 105   | <0.1  | 6.0   | 18.3  | 1156  | 4.37  | 0.6   | 0.5   | <0.5  | 5.9   | 14    | <0.1  | <0.1  | <0.1  | 92    | 0.37 |    |
| JPR 88210 | Soil   |         |      |     | 1.5  | 35.1  | 6.8   | 108   | <0.1  | 6.9   | 19.6  | 990   | 4.47  | 1.5   | 0.4   | <0.5  | 4.5   | 11    | 0.1   | <0.1  | <0.1  | 93    | 0.32 |    |
| JPR 88240 | Soil   |         |      |     | 1.0  | 10.8  | 11.9  | 72    | <0.1  | 5.5   | 10.1  | 725   | 3.25  | 2.8   | 0.9   | 0.9   | 13.4  | 17    | <0.1  | 0.2   | 0.2   | 55    | 0.27 |    |



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**Project:** JPR  
**Report Date:** December 14, 2009

**Page:** 7 of 11      **Part** 2

## CERTIFICATE OF ANALYSIS

VAN09005585.1

|           | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|           |                                  | P     | 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   |
|           |                                  | 0.001 | 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   |
| JPR 87304 | Soil                             | 0.035 | 2     | 21    | 0.75  | 161   | 0.124 | <1    | 2.19  | 0.027 | 0.05  | <0.1  | <0.01 | 2.6   | <0.1  | <0.05 | 5     | <0.5  |
| JPR 87305 | Soil                             | 0.017 | 3     | 35    | 0.79  | 115   | 0.134 | <1    | 2.96  | 0.014 | 0.05  | <0.1  | 0.02  | 3.3   | <0.1  | <0.05 | 5     | <0.5  |
| JPR 87306 | Soil                             | 0.021 | 9     | 35    | 0.82  | 209   | 0.102 | <1    | 2.14  | 0.014 | 0.04  | <0.1  | 0.02  | 4.4   | <0.1  | <0.05 | 5     | <0.5  |
| JPR 87307 | Soil                             | 0.064 | 10    | 21    | 0.95  | 180   | 0.023 | <1    | 2.41  | 0.022 | 0.04  | <0.1  | 0.03  | 12.8  | <0.1  | <0.05 | 6     | <0.5  |
| JPR 87308 | Soil                             | 0.038 | 4     | 17    | 0.73  | 143   | 0.126 | <1    | 2.74  | 0.022 | 0.04  | <0.1  | 0.02  | 3.5   | <0.1  | <0.05 | 5     | <0.5  |
| JPR 87309 | Soil                             | 0.034 | 7     | 33    | 0.50  | 177   | 0.033 | <1    | 1.77  | 0.014 | 0.03  | <0.1  | <0.01 | 4.0   | <0.1  | <0.05 | 4     | <0.5  |
| JPR 87482 | Soil                             | 0.040 | 16    | 55    | 0.52  | 494   | 0.120 | 1     | 1.51  | 0.009 | 0.09  | 0.1   | 0.04  | 6.1   | 0.1   | <0.05 | 5     | <0.5  |
| JPR 87483 | Soil                             | 0.038 | 20    | 46    | 0.25  | 628   | 0.046 | 1     | 0.82  | 0.006 | 0.15  | <0.1  | 0.09  | 6.0   | <0.1  | <0.05 | 5     | <0.5  |
| JPR 87497 | Soil                             | 0.097 | 19    | 101   | 0.80  | 971   | 0.136 | 1     | 2.17  | 0.011 | 0.34  | <0.1  | 0.36  | 15.1  | 0.4   | <0.05 | 9     | <0.5  |
| JPR 87498 | Soil                             | 0.042 | 18    | 145   | 1.28  | 958   | 0.230 | <1    | 2.60  | 0.011 | 0.63  | <0.1  | 0.05  | 11.5  | 0.3   | <0.05 | 9     | 0.7   |
| JPR 87499 | Soil                             | 0.056 | 15    | 214   | 1.70  | 2091  | 0.294 | 1     | 2.75  | 0.014 | 1.34  | <0.1  | 0.05  | 14.7  | 0.6   | <0.05 | 12    | 0.7   |
| JPR 87567 | Soil                             | 0.020 | 15    | 25    | 0.43  | 170   | 0.105 | <1    | 1.55  | 0.013 | 0.07  | 0.1   | 0.01  | 2.8   | <0.1  | <0.05 | 5     | <0.5  |
| JPR 87568 | Soil                             | 0.022 | 17    | 27    | 0.44  | 265   | 0.106 | <1    | 1.43  | 0.016 | 0.08  | 0.1   | 0.03  | 3.9   | <0.1  | <0.05 | 5     | <0.5  |
| JPR 87569 | Soil                             | 0.045 | 21    | 30    | 0.58  | 316   | 0.139 | 2     | 1.72  | 0.021 | 0.17  | 0.2   | 0.03  | 4.7   | <0.1  | <0.05 | 5     | <0.5  |
| JPR 87570 | Soil                             | 0.056 | 14    | 24    | 0.48  | 277   | 0.081 | <1    | 1.30  | 0.016 | 0.10  | 0.2   | 0.04  | 3.3   | <0.1  | <0.05 | 4     | <0.5  |
| JPR 87571 | Soil                             | 0.052 | 13    | 22    | 0.44  | 277   | 0.052 | <1    | 1.21  | 0.019 | 0.04  | 0.2   | 0.03  | 3.3   | <0.1  | <0.05 | 4     | 0.5   |
| JPR 87572 | Soil                             | 0.045 | 14    | 22    | 0.42  | 294   | 0.047 | <1    | 1.23  | 0.011 | 0.04  | 0.2   | 0.03  | 2.9   | <0.1  | <0.05 | 4     | <0.5  |
| JPR 87573 | Soil                             | 0.047 | 13    | 22    | 0.41  | 240   | 0.053 | <1    | 1.21  | 0.013 | 0.05  | 0.2   | 0.02  | 3.1   | <0.1  | <0.05 | 4     | <0.5  |
| JPR 87574 | Soil                             | 0.037 | 12    | 21    | 0.37  | 228   | 0.063 | <1    | 1.27  | 0.012 | 0.15  | 0.3   | 0.01  | 2.4   | 0.1   | <0.05 | 5     | <0.5  |
| JPR 87843 | Soil                             | 0.045 | 11    | 84    | 0.71  | 276   | 0.083 | <1    | 1.82  | 0.006 | 0.23  | 0.2   | 0.02  | 5.6   | 0.2   | <0.05 | 7     | 0.7   |
| JPR 87844 | Soil                             | 0.055 | 32    | 191   | 1.44  | 575   | 0.125 | <1    | 2.39  | 0.008 | 0.40  | <0.1  | 0.01  | 7.8   | 0.3   | <0.05 | 8     | 0.9   |
| JPR 87845 | Soil                             | 0.038 | 11    | 31    | 0.41  | 246   | 0.043 | <1    | 1.34  | 0.008 | 0.04  | 0.2   | 0.03  | 3.4   | <0.1  | <0.05 | 4     | 0.5   |
| JPR 87846 | Soil                             | 0.059 | 7     | 37    | 0.58  | 176   | 0.055 | <1    | 1.98  | 0.006 | 0.18  | 0.1   | 0.02  | 3.7   | 0.1   | <0.05 | 6     | <0.5  |
| JPR 87847 | Soil                             | 0.034 | 22    | 25    | 0.50  | 213   | 0.082 | <1    | 1.32  | 0.011 | 0.24  | 0.1   | 0.03  | 5.2   | 0.2   | <0.05 | 5     | <0.5  |
| JPR 87848 | Soil                             | 0.057 | 36    | 17    | 0.71  | 239   | 0.096 | <1    | 1.56  | 0.009 | 0.42  | 0.1   | 0.05  | 5.5   | 0.2   | <0.05 | 5     | 0.6   |
| JPR 87849 | Soil                             | 0.028 | 11    | 51    | 0.53  | 287   | 0.063 | <1    | 1.99  | 0.007 | 0.06  | 0.2   | 0.03  | 4.0   | 0.1   | <0.05 | 6     | <0.5  |
| JPR 88208 | Soil                             | 0.029 | 10    | 22    | 0.73  | 176   | 0.107 | <1    | 1.82  | 0.007 | 0.22  | 0.3   | 0.02  | 2.4   | 0.1   | <0.05 | 5     | <0.5  |
| JPR 88209 | Soil                             | 0.121 | 12    | 10    | 1.57  | 458   | 0.215 | <1    | 2.53  | 0.007 | 1.30  | 0.1   | 0.01  | 3.5   | 0.3   | <0.05 | 6     | <0.5  |
| JPR 88210 | Soil                             | 0.118 | 7     | 12    | 1.53  | 372   | 0.212 | <1    | 2.55  | 0.007 | 1.24  | 0.1   | <0.01 | 3.1   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 88240 | Soil                             | 0.068 | 48    | 11    | 0.82  | 155   | 0.119 | <1    | 1.96  | 0.006 | 0.70  | <0.1  | 0.02  | 3.0   | 0.3   | <0.05 | 7     | <0.5  |



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Report Date: December 14, 2009

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## CERTIFICATE OF ANALYSIS

VAN09005585.1

|           | Method<br>Analyte | WGHT      | 1DX15     | 1DX15     | 1DX15     | 1DX15     | 1DX15     | 1DX15     | 1DX15     | 1DX15     | 1DX15   | 1DX15     | 1DX15    | 1DX15     | 1DX15     | 1DX15     | 1DX15     | 1DX15     | 1DX15     | 1DX15    | 1DX15   |
|-----------|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|---------|
|           |                   | Wgt<br>kg | Mo<br>ppm | Cu<br>ppm | Pb<br>ppm | Zn<br>ppm | Ag<br>ppm | Ni<br>ppm | Co<br>ppm | Mn<br>ppm | Fe<br>% | As<br>ppm | U<br>ppm | Au<br>ppb | Th<br>ppm | Sr<br>ppm | Cd<br>ppm | Sb<br>ppm | Bi<br>ppm | V<br>ppm | Ca<br>% |
|           | Unit              | 0.01      | 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    |
|           | MDL               |           |           |           |           |           |           |           |           |           |         |           |          |           |           |           |           |           |           |          |         |
| JPR 88241 | Soil              |           | 1.0       | 20.2      | 9.1       | 58        | <0.1      | 15.9      | 9.1       | 386       | 2.73    | 7.2       | 1.1      | 21.0      | 6.5       | 18        | <0.1      | 0.4       | 0.2       | 55       | 0.23    |
| JPR 88242 | Soil              |           | 1.4       | 16.5      | 7.8       | 69        | <0.1      | 13.3      | 11.1      | 595       | 3.12    | 6.1       | 0.9      | 2.0       | 9.3       | 19        | 0.1       | 0.4       | 0.1       | 55       | 0.25    |
| JPR 88243 | Soil              |           | 0.7       | 10.1      | 15.5      | 107       | <0.1      | 6.0       | 13.9      | 1170      | 4.27    | 0.9       | 1.3      | <0.5      | 23.3      | 19        | 0.1       | 0.1       | <0.1      | 66       | 0.33    |
| JPR 88244 | Soil              |           | 1.0       | 12.8      | 10.3      | 70        | <0.1      | 12.4      | 14.2      | 765       | 2.98    | 5.2       | 0.8      | 1.3       | 7.5       | 13        | 0.1       | 0.3       | 0.1       | 56       | 0.18    |
| JPR 88245 | Soil              |           | 1.4       | 12.5      | 11.9      | 57        | <0.1      | 10.1      | 7.8       | 361       | 2.65    | 4.8       | 0.8      | <0.5      | 2.8       | 15        | 0.1       | 0.3       | 0.2       | 57       | 0.20    |
| JPR 88246 | Soil              |           | 1.2       | 21.3      | 16.1      | 77        | <0.1      | 9.2       | 12.1      | 682       | 3.47    | 4.0       | 1.0      | <0.5      | 15.9      | 16        | 0.1       | 0.2       | 0.1       | 58       | 0.22    |
| JPR 88303 | Soil              |           | 2.4       | 22.0      | 9.2       | 134       | <0.1      | 23.4      | 19.5      | 826       | 3.79    | 6.1       | 0.7      | 8.1       | 6.2       | 7         | 0.5       | 0.3       | 0.2       | 81       | 0.13    |
| JPR 88304 | Soil              |           | 1.9       | 25.2      | 19.8      | 60        | 0.2       | 24.0      | 9.2       | 215       | 2.52    | 16.0      | 1.8      | 7.1       | 4.5       | 17        | 0.2       | 0.5       | 0.2       | 58       | 0.15    |
| JPR 88305 | Soil              |           | 9.4       | 56.0      | 63.9      | 145       | 0.2       | 37.2      | 9.2       | 220       | 3.34    | 7.8       | 3.3      | 3.2       | 5.5       | 48        | 0.4       | 0.3       | 0.3       | 208      | 0.18    |
| JPR 88306 | Soil              |           | 3.6       | 72.5      | 9.0       | 113       | 0.2       | 19.5      | 7.6       | 281       | 3.96    | 1.9       | 2.1      | 0.9       | 9.4       | 39        | 0.1       | 0.1       | 0.3       | 104      | 0.22    |
| JPR 88307 | Soil              |           | 3.6       | 72.1      | 5.3       | 84        | 0.2       | 13.9      | 4.8       | 223       | 4.16    | 1.0       | 2.4      | 1.6       | 11.2      | 42        | 0.2       | 0.1       | 0.3       | 92       | 0.16    |
| JPR 88308 | Soil              |           | 2.4       | 44.6      | 6.0       | 73        | 0.1       | 9.1       | 3.3       | 218       | 3.37    | 0.6       | 2.2      | 1.3       | 13.1      | 30        | 0.1       | 0.1       | 0.4       | 71       | 0.14    |
| JPR 88313 | Soil              |           | 0.9       | 13.4      | 13.0      | 58        | <0.1      | 11.3      | 8.3       | 365       | 2.64    | 6.3       | 0.9      | 1.3       | 7.2       | 13        | 0.2       | 0.3       | 0.2       | 54       | 0.17    |
| JPR 88314 | Soil              |           | 0.9       | 14.1      | 21.9      | 71        | 0.1       | 14.7      | 11.3      | 493       | 3.03    | 6.4       | 1.1      | 1.8       | 8.7       | 13        | 0.1       | 0.3       | 0.2       | 59       | 0.19    |
| JPR 88315 | Soil              |           | 1.0       | 10.6      | 10.7      | 58        | <0.1      | 12.4      | 9.1       | 390       | 2.86    | 7.5       | 0.8      | 2.5       | 6.8       | 15        | 0.1       | 0.3       | 0.2       | 54       | 0.19    |
| JPR 88316 | Soil              |           | 0.9       | 9.7       | 9.5       | 60        | <0.1      | 11.4      | 7.6       | 324       | 2.60    | 7.2       | 0.8      | 2.5       | 8.7       | 13        | 0.1       | 0.3       | 0.2       | 53       | 0.18    |
| JPR 88317 | Soil              |           | 1.0       | 8.3       | 7.0       | 70        | <0.1      | 7.2       | 8.5       | 531       | 2.87    | 4.4       | 0.9      | 1.5       | 6.8       | 14        | <0.1      | 0.2       | 0.1       | 59       | 0.20    |
| JPR 88318 | Soil              |           | 2.1       | 9.7       | 9.1       | 71        | <0.1      | 9.2       | 8.3       | 522       | 2.97    | 5.0       | 1.4      | 1.6       | 11.8      | 12        | <0.1      | 0.2       | 0.1       | 51       | 0.18    |
| JPR 88319 | Soil              |           | 1.4       | 16.1      | 12.8      | 57        | <0.1      | 15.7      | 8.8       | 324       | 2.72    | 8.6       | 1.4      | 1.1       | 8.5       | 15        | <0.1      | 0.4       | 0.2       | 53       | 0.17    |
| JPR 88321 | Soil              |           | 2.0       | 28.5      | 5.4       | 62        | <0.1      | 4.7       | 11.1      | 641       | 3.18    | 1.0       | 1.2      | 1.5       | 9.6       | 12        | <0.1      | <0.1      | <0.1      | 62       | 0.20    |
| JPR 88322 | Soil              |           | 1.6       | 15.7      | 10.8      | 55        | 0.2       | 9.8       | 6.3       | 244       | 2.37    | 4.2       | 1.9      | 1.9       | 3.8       | 16        | 0.2       | 0.2       | 0.2       | 50       | 0.18    |
| JPR 88323 | Soil              |           | 1.4       | 11.2      | 10.0      | 57        | <0.1      | 10.5      | 7.1       | 248       | 2.77    | 5.8       | 0.9      | 2.8       | 3.9       | 14        | 0.1       | 0.3       | 0.2       | 60       | 0.18    |
| JPR 88324 | Soil              |           | 1.3       | 18.3      | 8.3       | 59        | 0.2       | 10.0      | 6.9       | 272       | 2.51    | 3.7       | 1.4      | 1.9       | 3.7       | 18        | 0.1       | 0.2       | 0.1       | 52       | 0.23    |
| JPR 88325 | Soil              |           | 3.1       | 13.6      | 4.2       | 84        | <0.1      | 5.4       | 13.6      | 574       | 3.65    | 0.7       | 0.9      | 1.0       | 6.4       | 28        | <0.1      | <0.1      | <0.1      | 64       | 0.62    |
| JPR 88326 | Soil              |           | 1.5       | 9.5       | 7.4       | 81        | <0.1      | 7.4       | 10.8      | 692       | 3.53    | 2.7       | 1.0      | 2.4       | 15.8      | 17        | <0.1      | 0.2       | <0.1      | 55       | 0.31    |
| JPR 88327 | Soil              |           | 1.3       | 8.4       | 6.3       | 91        | <0.1      | 4.4       | 12.1      | 1061      | 3.81    | 0.9       | 1.1      | 0.7       | 29.9      | 26        | <0.1      | <0.1      | <0.1      | 54       | 0.41    |
| JPR 88328 | Soil              |           | 1.3       | 9.4       | 10.5      | 113       | <0.1      | 7.6       | 14.8      | 924       | 4.43    | 3.1       | 1.5      | 0.6       | 27.3      | 26        | 0.2       | 0.2       | <0.1      | 60       | 0.38    |
| JPR 88329 | Soil              |           | 2.2       | 10.1      | 13.0      | 102       | <0.1      | 7.1       | 13.6      | 1025      | 4.19    | 4.4       | 1.1      | <0.5      | 13.9      | 16        | 0.2       | 0.2       | 0.1       | 77       | 0.24    |
| JPR 88330 | Soil              |           | 1.3       | 15.2      | 10.4      | 68        | <0.1      | 16.7      | 8.9       | 334       | 2.99    | 7.8       | 1.2      | 4.5       | 13.1      | 17        | 0.1       | 0.4       | 0.2       | 56       | 0.18    |
| JPR 88331 | Soil              |           | 1.5       | 16.6      | 13.1      | 64        | <0.1      | 17.1      | 12.3      | 449       | 3.31    | 8.6       | 0.8      | 8.9       | 8.8       | 14        | <0.1      | 0.4       | 0.2       | 63       | 0.16    |



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Project: JPR  
Report Date: December 14, 2009

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## CERTIFICATE OF ANALYSIS

VAN09005585.1

|           | Method<br>Analyte<br>Unit<br>MDL | 1DX15           | 1DX15          | 1DX15          | 1DX15           | 1DX15          | 1DX15            | 1DX15         | 1DX15           | 1DX15            | 1DX15          | 1DX15           | 1DX15             | 1DX15            | 1DX15            | 1DX15          | 1DX15          | 1DX15            |
|-----------|----------------------------------|-----------------|----------------|----------------|-----------------|----------------|------------------|---------------|-----------------|------------------|----------------|-----------------|-------------------|------------------|------------------|----------------|----------------|------------------|
|           |                                  | P<br>%<br>0.001 | La<br>ppm<br>1 | Cr<br>ppm<br>1 | Mg<br>%<br>0.01 | Ba<br>ppm<br>1 | Ti<br>%<br>0.001 | B<br>ppm<br>1 | Al<br>%<br>0.01 | Na<br>%<br>0.001 | K<br>%<br>0.01 | W<br>ppm<br>0.1 | Hg<br>ppm<br>0.01 | Sc<br>ppm<br>0.1 | Tl<br>ppm<br>0.1 | S<br>%<br>0.05 | Ga<br>ppm<br>1 | Se<br>ppm<br>0.5 |
| JPR 88241 | Soil                             | 0.057           | 23             | 23             | 0.60            | 174            | 0.093            | <1            | 1.61            | 0.006            | 0.18           | 0.2             | 0.02              | 3.1              | 0.2              | <0.05          | 5              | <0.5             |
| JPR 88242 | Soil                             | 0.051           | 25             | 20             | 0.80            | 218            | 0.117            | <1            | 1.87            | 0.007            | 0.36           | 0.2             | 0.03              | 3.7              | 0.2              | <0.05          | 5              | <0.5             |
| JPR 88243 | Soil                             | 0.086           | 46             | 8              | 1.18            | 236            | 0.210            | <1            | 2.26            | 0.007            | 1.18           | 0.2             | 0.01              | 3.7              | 0.7              | <0.05          | 9              | <0.5             |
| JPR 88244 | Soil                             | 0.057           | 14             | 19             | 0.72            | 139            | 0.122            | <1            | 1.75            | 0.007            | 0.34           | 0.2             | 0.01              | 2.6              | 0.2              | <0.05          | 6              | <0.5             |
| JPR 88245 | Soil                             | 0.049           | 16             | 18             | 0.60            | 129            | 0.089            | <1            | 1.64            | 0.007            | 0.23           | 0.1             | 0.02              | 1.8              | 0.1              | <0.05          | 6              | <0.5             |
| JPR 88246 | Soil                             | 0.055           | 31             | 14             | 0.80            | 150            | 0.113            | <1            | 2.18            | 0.007            | 0.51           | 0.1             | 0.01              | 2.5              | 0.2              | <0.05          | 7              | <0.5             |
| JPR 88303 | Soil                             | 0.052           | 6              | 22             | 1.35            | 135            | 0.211            | <1            | 2.60            | 0.007            | 0.78           | <0.1            | <0.01             | 2.0              | 0.3              | <0.05          | 7              | <0.5             |
| JPR 88304 | Soil                             | 0.016           | 14             | 31             | 0.55            | 178            | 0.059            | <1            | 1.60            | 0.012            | 0.04           | 0.1             | 0.03              | 4.0              | <0.1             | <0.05          | 5              | 0.5              |
| JPR 88305 | Soil                             | 0.090           | 22             | 53             | 0.89            | 184            | 0.084            | <1            | 1.51            | 0.009            | 0.24           | 0.1             | 0.01              | 5.2              | 0.2              | 0.25           | 6              | 4.0              |
| JPR 88306 | Soil                             | 0.058           | 30             | 30             | 1.09            | 344            | 0.112            | <1            | 1.83            | 0.038            | 0.66           | <0.1            | 0.01              | 6.1              | 0.4              | 0.45           | 7              | 2.5              |
| JPR 88307 | Soil                             | 0.056           | 29             | 24             | 1.04            | 265            | 0.107            | <1            | 1.85            | 0.044            | 0.77           | <0.1            | 0.01              | 5.5              | 0.6              | 0.51           | 7              | 2.2              |
| JPR 88308 | Soil                             | 0.051           | 47             | 24             | 0.94            | 341            | 0.118            | <1            | 1.61            | 0.023            | 0.80           | <0.1            | <0.01             | 4.4              | 0.5              | 0.43           | 6              | 2.6              |
| JPR 88313 | Soil                             | 0.055           | 24             | 21             | 0.59            | 125            | 0.093            | <1            | 1.68            | 0.006            | 0.15           | 0.1             | 0.02              | 2.5              | 0.2              | <0.05          | 6              | <0.5             |
| JPR 88314 | Soil                             | 0.058           | 23             | 23             | 0.75            | 150            | 0.118            | <1            | 1.82            | 0.008            | 0.29           | 0.2             | 0.04              | 3.0              | 0.2              | <0.05          | 6              | <0.5             |
| JPR 88315 | Soil                             | 0.042           | 14             | 21             | 0.56            | 130            | 0.090            | <1            | 1.72            | 0.007            | 0.14           | 0.2             | 0.03              | 2.3              | 0.1              | <0.05          | 5              | <0.5             |
| JPR 88316 | Soil                             | 0.053           | 20             | 21             | 0.57            | 109            | 0.091            | <1            | 1.64            | 0.009            | 0.14           | 0.2             | 0.02              | 2.4              | 0.1              | <0.05          | 5              | <0.5             |
| JPR 88317 | Soil                             | 0.048           | 30             | 14             | 0.74            | 127            | 0.141            | <1            | 1.68            | 0.006            | 0.45           | 0.1             | 0.01              | 2.3              | 0.2              | <0.05          | 7              | <0.5             |
| JPR 88318 | Soil                             | 0.062           | 36             | 16             | 0.69            | 133            | 0.102            | <1            | 1.71            | 0.007            | 0.37           | 0.1             | 0.02              | 2.8              | 0.2              | <0.05          | 6              | <0.5             |
| JPR 88319 | Soil                             | 0.037           | 32             | 26             | 0.55            | 181            | 0.076            | <1            | 1.84            | 0.008            | 0.11           | 0.2             | 0.03              | 3.2              | 0.1              | <0.05          | 5              | <0.5             |
| JPR 88321 | Soil                             | 0.054           | 24             | 10             | 1.07            | 349            | 0.166            | <1            | 2.01            | 0.007            | 1.13           | 0.1             | <0.01             | 2.3              | 0.3              | <0.05          | 7              | 0.5              |
| JPR 88322 | Soil                             | 0.057           | 30             | 17             | 0.57            | 187            | 0.074            | <1            | 1.44            | 0.007            | 0.26           | 0.1             | 0.08              | 2.9              | 0.2              | <0.05          | 6              | 0.6              |
| JPR 88323 | Soil                             | 0.058           | 17             | 18             | 0.60            | 134            | 0.091            | <1            | 1.44            | 0.007            | 0.26           | 0.2             | 0.03              | 2.3              | 0.1              | <0.05          | 6              | <0.5             |
| JPR 88324 | Soil                             | 0.055           | 18             | 17             | 0.69            | 199            | 0.097            | <1            | 1.53            | 0.008            | 0.28           | 0.2             | 0.05              | 2.8              | 0.1              | <0.05          | 6              | <0.5             |
| JPR 88325 | Soil                             | 0.092           | 19             | 9              | 1.07            | 397            | 0.046            | <1            | 2.06            | 0.010            | 0.57           | <0.1            | <0.01             | 3.6              | 0.1              | <0.05          | 7              | <0.5             |
| JPR 88326 | Soil                             | 0.066           | 39             | 12             | 0.85            | 154            | 0.148            | <1            | 1.88            | 0.007            | 0.73           | <0.1            | 0.01              | 2.5              | 0.3              | <0.05          | 8              | <0.5             |
| JPR 88327 | Soil                             | 0.078           | 49             | 6              | 1.01            | 192            | 0.173            | <1            | 2.21            | 0.008            | 1.13           | <0.1            | 0.01              | 2.0              | 0.5              | <0.05          | 9              | <0.5             |
| JPR 88328 | Soil                             | 0.083           | 53             | 12             | 1.02            | 216            | 0.142            | <1            | 2.16            | 0.008            | 0.80           | <0.1            | 0.02              | 2.7              | 0.4              | <0.05          | 9              | 0.6              |
| JPR 88329 | Soil                             | 0.078           | 30             | 13             | 0.97            | 138            | 0.203            | <1            | 2.04            | 0.008            | 0.90           | 0.1             | 0.02              | 3.0              | 0.4              | <0.05          | 10             | <0.5             |
| JPR 88330 | Soil                             | 0.046           | 21             | 26             | 0.60            | 160            | 0.073            | <1            | 1.87            | 0.008            | 0.12           | 0.2             | 0.02              | 3.0              | 0.1              | <0.05          | 6              | <0.5             |
| JPR 88331 | Soil                             | 0.046           | 16             | 25             | 0.57            | 116            | 0.090            | <1            | 1.73            | 0.008            | 0.14           | 0.2             | 0.02              | 2.5              | <0.1             | <0.05          | 6              | <0.5             |



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Report Date:

December 14, 2009

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Part 1

## CERTIFICATE OF ANALYSIS

VAN09005585.1

|           | Method<br>Analyte | Unit<br>MDL | WGHT | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|-------------------|-------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|           |                   |             | Wgt  | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     |
|           |                   |             | kg   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | %     |
|           |                   |             | 0.01 | 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     |
| JPR 88332 | Soil              |             |      | 0.9   | 18.0  | 9.0   | 58    | <0.1  | 16.7  | 8.7   | 374   | 2.75  | 7.2   | 0.9   | 6.3   | 7.8   | 22    | <0.1  | 0.4   | 0.1   | 57    |
| JPR 88334 | Soil              |             |      | 1.3   | 13.9  | 11.1  | 60    | <0.1  | 13.9  | 9.6   | 420   | 3.26  | 6.3   | 0.8   | 2.2   | 9.4   | 13    | <0.1  | 0.4   | 0.2   | 61    |
| JPR 88335 | Soil              |             |      | 1.3   | 13.9  | 7.6   | 52    | <0.1  | 12.5  | 8.0   | 271   | 2.51  | 5.4   | 0.7   | 2.1   | 6.1   | 16    | <0.1  | 0.3   | 0.1   | 50    |
| JPR 88336 | Soil              |             |      | 1.2   | 12.1  | 9.8   | 68    | <0.1  | 9.4   | 8.9   | 527   | 3.09  | 3.5   | 1.0   | <0.5  | 11.5  | 18    | 0.1   | 0.3   | 0.1   | 57    |
| JPR 88346 | Soil              |             |      | 1.0   | 16.1  | 5.9   | 117   | <0.1  | 8.9   | 9.9   | 674   | 2.89  | 4.2   | 0.9   | 2.6   | 10.5  | 12    | 0.1   | 0.2   | <0.1  | 49    |
| JPR 88347 | Soil              |             |      | 1.0   | 22.8  | 3.5   | 92    | <0.1  | 8.6   | 18.7  | 760   | 4.31  | 1.9   | 0.6   | 1.1   | 6.3   | 14    | <0.1  | <0.1  | <0.1  | 91    |
| JPR 88348 | Soil              |             |      | 2.2   | 27.7  | 6.1   | 90    | 0.2   | 7.8   | 13.6  | 571   | 3.90  | 1.7   | 1.5   | 3.8   | 4.9   | 22    | 0.1   | 0.1   | <0.1  | 86    |
| JPR 88349 | Soil              |             |      | 1.9   | 19.1  | 11.1  | 83    | <0.1  | 6.1   | 13.5  | 681   | 4.56  | <0.5  | 1.7   | 1.6   | 6.7   | 27    | <0.1  | <0.1  | 0.2   | 97    |
| JPR 88350 | Soil              |             |      | 1.4   | 12.2  | 7.2   | 60    | 0.1   | 7.7   | 7.5   | 303   | 2.65  | 2.3   | 1.2   | 1.3   | 3.2   | 16    | 0.1   | 0.1   | 0.1   | 52    |
| JPR 88351 | Soil              |             |      | 1.8   | 21.1  | 10.3  | 74    | 0.1   | 10.3  | 11.9  | 598   | 3.25  | 4.0   | 1.2   | 1.0   | 9.1   | 19    | 0.1   | 0.2   | 0.2   | 63    |
| JPR 88352 | Soil              |             |      | 1.4   | 19.2  | 8.9   | 72    | <0.1  | 20.8  | 11.7  | 505   | 3.40  | 9.7   | 0.7   | 1.9   | 7.1   | 11    | 0.2   | 0.6   | 0.2   | 60    |
| JPR 88353 | Soil              |             |      | 1.2   | 17.6  | 8.8   | 68    | <0.1  | 10.9  | 12.4  | 485   | 3.43  | 5.3   | 0.7   | 3.3   | 5.9   | 18    | <0.1  | 0.2   | 0.1   | 68    |
| JPR 88354 | Soil              |             |      | 1.4   | 18.8  | 14.2  | 73    | 0.2   | 8.5   | 10.6  | 517   | 3.36  | 3.5   | 0.6   | 1.0   | 7.3   | 15    | <0.1  | 0.2   | 0.2   | 67    |
| JPR 88359 | Soil              |             |      | 0.8   | 24.7  | 7.4   | 73    | 0.1   | 6.6   | 15.6  | 1012  | 3.86  | 1.1   | 0.6   | 3.6   | 10.4  | 17    | <0.1  | <0.1  | 0.1   | 54    |
| JPR 88360 | Soil              |             |      | 3.2   | 22.5  | 14.5  | 57    | <0.1  | 11.3  | 13.8  | 602   | 3.62  | 1.7   | 1.6   | 0.9   | 15.7  | 20    | <0.1  | 0.2   | 0.2   | 62    |
| JPR 88361 | Soil              |             |      | 0.6   | 20.6  | 5.3   | 62    | <0.1  | 14.2  | 14.0  | 578   | 3.39  | 5.2   | 0.9   | 1.0   | 9.3   | 23    | <0.1  | 0.3   | <0.1  | 59    |
| JPR 88363 | Soil              |             |      | 1.2   | 14.2  | 5.8   | 67    | <0.1  | 9.8   | 13.3  | 625   | 3.73  | 3.7   | 0.7   | 1.6   | 8.0   | 18    | <0.1  | 0.2   | <0.1  | 72    |
| JPR 88364 | Soil              |             |      | 1.4   | 13.9  | 9.7   | 58    | <0.1  | 13.4  | 10.0  | 455   | 3.02  | 6.2   | 0.9   | 3.1   | 12.4  | 14    | 0.1   | 0.4   | 0.1   | 52    |
| JPR 88365 | Soil              |             |      | 2.1   | 17.4  | 12.3  | 56    | <0.1  | 14.6  | 8.2   | 329   | 2.54  | 5.7   | 1.1   | 4.8   | 7.1   | 18    | 0.1   | 0.3   | 0.2   | 49    |
| JPR 88411 | Soil              |             |      | 2.2   | 43.0  | 34.8  | 82    | 0.3   | 28.5  | 14.5  | 822   | 3.11  | 7.7   | 1.0   | 3.9   | 1.6   | 14    | 0.6   | 0.3   | 0.3   | 59    |
| JPR 88412 | Soil              |             |      | 2.7   | 45.7  | 65.7  | 88    | 0.8   | 20.6  | 10.9  | 640   | 2.95  | 4.3   | 1.7   | 12.3  | 9.7   | 25    | 0.5   | 0.2   | 0.2   | 55    |
| JPR 88413 | Soil              |             |      | 1.9   | 24.4  | 8.2   | 70    | 0.1   | 17.6  | 11.9  | 460   | 3.06  | 6.3   | 0.8   | 2.2   | 4.6   | 18    | 0.2   | 0.2   | 0.2   | 68    |
| JPR 88414 | Soil              |             |      | 2.1   | 21.1  | 7.6   | 61    | 0.1   | 16.6  | 9.7   | 366   | 2.86  | 6.5   | 0.8   | 3.3   | 4.2   | 20    | 0.2   | 0.2   | 0.2   | 69    |
| JPR 88423 | Soil              |             |      | 3.9   | 32.4  | 8.3   | 87    | 0.2   | 25.4  | 11.1  | 433   | 3.00  | 5.2   | 1.5   | 7.3   | 5.3   | 16    | 0.2   | 0.2   | 0.1   | 66    |
| JPR 88424 | Soil              |             |      | 2.1   | 18.7  | 5.1   | 86    | <0.1  | 15.7  | 17.5  | 843   | 3.86  | 3.7   | 0.7   | <0.5  | 9.9   | 11    | 0.2   | 0.2   | <0.1  | 84    |
| JPR 88425 | Soil              |             |      | 2.6   | 22.7  | 7.4   | 64    | 0.1   | 18.2  | 12.2  | 543   | 3.45  | 4.6   | 0.9   | 1.6   | 8.3   | 16    | <0.1  | 0.2   | 0.1   | 66    |
| JPR 88428 | Soil              |             |      | 0.7   | 23.0  | 9.0   | 75    | <0.1  | 15.1  | 15.8  | 637   | 3.84  | 4.2   | 0.6   | 2.1   | 10.0  | 21    | <0.1  | 0.3   | 0.2   | 73    |
| JPR 88429 | Soil              |             |      | 1.5   | 15.7  | 6.2   | 64    | <0.1  | 13.8  | 13.8  | 607   | 3.74  | 6.3   | 0.8   | 3.1   | 8.0   | 15    | <0.1  | 0.4   | 0.1   | 76    |
| JPR 88430 | Soil              |             |      | 1.8   | 30.8  | 8.0   | 51    | <0.1  | 21.6  | 10.9  | 318   | 2.93  | 7.3   | 1.2   | 1.3   | 6.2   | 22    | <0.1  | 0.5   | 0.1   | 59    |
| JPR 88432 | Soil              |             |      | 0.9   | 17.6  | 11.4  | 71    | <0.1  | 15.0  | 14.3  | 588   | 4.14  | 6.4   | 0.5   | 1.6   | 8.0   | 16    | <0.1  | 0.4   | 0.1   | 84    |





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Report Date: December 14, 2009

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## CERTIFICATE OF ANALYSIS

VAN09005585.1

|           | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|           |                                  | P     | 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   |
|           |                                  | 0.001 | 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   |
| JPR 88332 | Soil                             | 0.050 | 17    | 25    | 0.57  | 184   | 0.099 | <1    | 1.55  | 0.010 | 0.13  | 0.2   | 0.02  | 3.4   | <0.1  | <0.05 | 5     | <0.5  |
| JPR 88334 | Soil                             | 0.040 | 14    | 23    | 0.65  | 143   | 0.109 | <1    | 1.96  | 0.008 | 0.26  | 0.1   | 0.02  | 2.7   | 0.2   | <0.05 | 6     | 0.6   |
| JPR 88335 | Soil                             | 0.041 | 18    | 21    | 0.50  | 153   | 0.086 | <1    | 1.44  | 0.007 | 0.08  | 0.1   | 0.01  | 2.4   | <0.1  | <0.05 | 4     | <0.5  |
| JPR 88336 | Soil                             | 0.056 | 27    | 16    | 0.72  | 215   | 0.144 | <1    | 1.54  | 0.007 | 0.56  | 0.1   | 0.02  | 3.2   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 88346 | Soil                             | 0.054 | 32    | 15    | 0.66  | 168   | 0.108 | <1    | 1.81  | 0.006 | 0.45  | 0.1   | 0.01  | 2.1   | 0.2   | <0.05 | 5     | <0.5  |
| JPR 88347 | Soil                             | 0.089 | 16    | 17    | 1.39  | 375   | 0.213 | <1    | 2.62  | 0.010 | 1.07  | 0.1   | <0.01 | 2.7   | 0.3   | <0.05 | 7     | <0.5  |
| JPR 88348 | Soil                             | 0.089 | 19    | 14    | 1.12  | 377   | 0.124 | <1    | 2.07  | 0.010 | 0.67  | 0.1   | 0.04  | 4.9   | 0.2   | <0.05 | 7     | 0.5   |
| JPR 88349 | Soil                             | 0.093 | 19    | 12    | 1.29  | 451   | 0.126 | <1    | 2.22  | 0.007 | 1.24  | 0.1   | <0.01 | 5.9   | 0.3   | <0.05 | 7     | <0.5  |
| JPR 88350 | Soil                             | 0.068 | 16    | 15    | 0.71  | 164   | 0.104 | <1    | 1.66  | 0.008 | 0.25  | 0.1   | 0.03  | 2.3   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 88351 | Soil                             | 0.068 | 25    | 19    | 0.96  | 169   | 0.118 | <1    | 2.05  | 0.009 | 0.45  | 0.1   | 0.03  | 3.3   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 88352 | Soil                             | 0.045 | 12    | 28    | 0.57  | 148   | 0.079 | <1    | 2.19  | 0.007 | 0.14  | 0.1   | 0.04  | 2.5   | <0.1  | <0.05 | 5     | <0.5  |
| JPR 88353 | Soil                             | 0.051 | 13    | 20    | 0.89  | 221   | 0.119 | <1    | 1.88  | 0.009 | 0.31  | 0.1   | 0.02  | 3.4   | 0.1   | <0.05 | 6     | 0.5   |
| JPR 88354 | Soil                             | 0.051 | 13    | 15    | 0.92  | 196   | 0.139 | <1    | 1.84  | 0.007 | 0.51  | <0.1  | 0.01  | 3.1   | 0.2   | <0.05 | 7     | <0.5  |
| JPR 88359 | Soil                             | 0.075 | 42    | 13    | 1.37  | 94    | 0.002 | <1    | 2.21  | 0.004 | 0.04  | <0.1  | 0.06  | 7.1   | <0.1  | <0.05 | 8     | <0.5  |
| JPR 88360 | Soil                             | 0.022 | 18    | 16    | 1.19  | 95    | 0.101 | <1    | 2.24  | 0.007 | 0.56  | <0.1  | 0.02  | 3.6   | 0.4   | <0.05 | 7     | <0.5  |
| JPR 88361 | Soil                             | 0.048 | 22    | 21    | 1.09  | 248   | 0.135 | <1    | 2.00  | 0.008 | 0.51  | <0.1  | 0.01  | 3.4   | 0.2   | <0.05 | 6     | 0.5   |
| JPR 88363 | Soil                             | 0.076 | 20    | 14    | 1.20  | 183   | 0.139 | <1    | 2.24  | 0.006 | 0.81  | 0.1   | 0.01  | 2.4   | 0.3   | <0.05 | 7     | <0.5  |
| JPR 88364 | Soil                             | 0.023 | 15    | 21    | 0.60  | 150   | 0.114 | <1    | 1.85  | 0.008 | 0.27  | 0.1   | 0.02  | 2.5   | 0.2   | <0.05 | 6     | 0.5   |
| JPR 88365 | Soil                             | 0.050 | 20    | 21    | 0.55  | 143   | 0.112 | <1    | 1.49  | 0.009 | 0.20  | 0.1   | 0.02  | 2.7   | 0.1   | <0.05 | 5     | <0.5  |
| JPR 88411 | Soil                             | 0.070 | 14    | 28    | 0.42  | 153   | 0.057 | <1    | 1.32  | 0.010 | 0.08  | 0.2   | 0.04  | 2.4   | <0.1  | <0.05 | 5     | 0.6   |
| JPR 88412 | Soil                             | 0.074 | 36    | 21    | 0.74  | 232   | 0.087 | <1    | 1.51  | 0.010 | 0.31  | 0.2   | 0.04  | 4.7   | 0.2   | <0.05 | 5     | 0.5   |
| JPR 88413 | Soil                             | 0.069 | 13    | 26    | 0.77  | 189   | 0.111 | <1    | 1.64  | 0.009 | 0.16  | 0.2   | 0.02  | 2.7   | <0.1  | <0.05 | 6     | <0.5  |
| JPR 88414 | Soil                             | 0.076 | 13    | 24    | 0.67  | 219   | 0.092 | <1    | 1.43  | 0.008 | 0.12  | 0.1   | 0.03  | 2.8   | 0.1   | <0.05 | 6     | <0.5  |
| JPR 88423 | Soil                             | 0.054 | 15    | 38    | 0.90  | 247   | 0.129 | <1    | 1.70  | 0.008 | 0.27  | <0.1  | 0.02  | 3.3   | 0.1   | <0.05 | 6     | 0.6   |
| JPR 88424 | Soil                             | 0.050 | 14    | 22    | 1.45  | 157   | 0.230 | <1    | 2.66  | 0.008 | 1.08  | 0.2   | 0.01  | 2.0   | 0.4   | <0.05 | 8     | <0.5  |
| JPR 88425 | Soil                             | 0.050 | 25    | 20    | 1.03  | 188   | 0.147 | <1    | 2.11  | 0.009 | 0.61  | 0.1   | 0.02  | 2.3   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 88428 | Soil                             | 0.037 | 23    | 21    | 1.51  | 254   | 0.199 | 1     | 2.68  | 0.013 | 0.71  | 0.1   | 0.02  | 2.8   | 0.3   | <0.05 | 7     | <0.5  |
| JPR 88429 | Soil                             | 0.037 | 13    | 27    | 1.12  | 217   | 0.169 | <1    | 2.57  | 0.010 | 0.71  | 0.1   | 0.02  | 3.1   | 0.3   | <0.05 | 7     | <0.5  |
| JPR 88430 | Soil                             | 0.021 | 20    | 32    | 0.75  | 222   | 0.103 | 1     | 1.80  | 0.014 | 0.12  | 0.1   | 0.02  | 4.0   | 0.1   | <0.05 | 5     | <0.5  |
| JPR 88432 | Soil                             | 0.019 | 11    | 24    | 1.34  | 178   | 0.233 | <1    | 2.63  | 0.008 | 0.87  | 0.1   | 0.01  | 2.0   | 0.3   | <0.05 | 7     | <0.5  |



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Project: JPR  
Report Date: December 14, 2009

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## CERTIFICATE OF ANALYSIS

VAN09005585.1

|           | Method<br>Analyte | Unit<br>MDL | WGHT | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |    |
|-----------|-------------------|-------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
|           |                   |             | Wgt  | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca |
|           |                   |             | kg   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %  |
|           |                   |             | 0.01 | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 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  |
| JPR 88433 | Soil              |             | 0.7  | 17.3  | 6.5   | 60    | <0.1  | 12.5  | 13.9  | 497   | 3.89  | 5.7   | 0.5   | 1.2   | 5.8   | 13    | <0.1  | 0.3   | 0.1   | 81    | 0.15  |    |
| JPR 88434 | Soil              |             | 0.8  | 19.0  | 7.1   | 63    | <0.1  | 14.8  | 13.5  | 485   | 3.84  | 7.4   | 0.6   | 1.8   | 5.5   | 16    | 0.1   | 0.4   | 0.1   | 82    | 0.17  |    |
| JPR 88435 | Soil              |             | 0.9  | 21.3  | 7.5   | 58    | <0.1  | 17.9  | 13.2  | 459   | 3.78  | 8.1   | 0.5   | 12.5  | 5.1   | 15    | <0.1  | 0.5   | 0.1   | 81    | 0.14  |    |
| JPR 88440 | Soil              |             | 6.2  | 41.4  | 23.4  | 95    | 0.2   | 29.5  | 6.1   | 196   | 3.28  | 7.1   | 2.4   | 38.6  | 6.8   | 24    | 0.2   | 0.3   | 0.3   | 103   | 0.28  |    |
| JPR 88441 | Soil              |             | 1.5  | 35.0  | 10.0  | 75    | 0.1   | 29.0  | 11.1  | 323   | 3.39  | 8.6   | 1.0   | 3.3   | 5.1   | 15    | 0.3   | 0.6   | 0.2   | 83    | 0.15  |    |
| JPR 88442 | Soil              |             | 0.9  | 21.6  | 4.3   | 96    | <0.1  | 8.8   | 13.6  | 523   | 4.58  | 2.8   | 0.7   | <0.5  | 4.4   | 16    | <0.1  | 0.1   | <0.1  | 98    | 0.53  |    |
| JPR 88443 | Soil              |             | 1.0  | 12.3  | 8.7   | 50    | <0.1  | 14.5  | 6.7   | 218   | 2.49  | 6.6   | 0.7   | 2.7   | 3.5   | 16    | <0.1  | 0.4   | 0.1   | 59    | 0.22  |    |
| JPR 88444 | Soil              |             | 0.7  | 13.3  | 2.3   | 135   | <0.1  | 7.5   | 16.5  | 1026  | 6.14  | 0.8   | 0.5   | 1.1   | 7.0   | 17    | <0.1  | <0.1  | <0.1  | 95    | 0.48  |    |
| JPR 88445 | Soil              |             | 0.6  | 19.1  | 4.8   | 111   | <0.1  | 12.1  | 14.7  | 832   | 5.38  | 3.0   | 0.6   | 0.5   | 5.3   | 13    | <0.1  | 0.2   | <0.1  | 94    | 0.26  |    |
| JPR 88446 | Soil              |             | 1.1  | 15.3  | 10.2  | 123   | 0.2   | 16.0  | 10.4  | 738   | 3.64  | 5.3   | 0.6   | 31.2  | 2.8   | 24    | 0.5   | 0.4   | 0.1   | 95    | 0.34  |    |
| JPR 88447 | Soil              |             | 0.7  | 17.6  | 8.2   | 57    | <0.1  | 18.8  | 11.4  | 410   | 3.29  | 8.5   | 0.9   | 1.7   | 9.7   | 16    | <0.1  | 0.4   | 0.2   | 65    | 0.20  |    |
| JPR 88448 | Soil              |             | 1.5  | 30.3  | 6.7   | 68    | <0.1  | 24.3  | 12.7  | 547   | 3.35  | 6.7   | 1.1   | 4.1   | 6.7   | 22    | <0.1  | 0.4   | 0.1   | 70    | 0.31  |    |
| JPR 88469 | Soil              |             | 2.0  | 33.7  | 4.6   | 115   | <0.1  | 7.5   | 18.3  | 1066  | 4.81  | 1.3   | 0.7   | <0.5  | 7.1   | 17    | 0.1   | 0.1   | <0.1  | 100   | 0.40  |    |
| JPR 88470 | Soil              |             | 1.4  | 16.4  | 10.6  | 58    | <0.1  | 11.4  | 9.3   | 385   | 3.03  | 6.6   | 0.9   | 2.3   | 5.3   | 17    | <0.1  | 0.2   | 0.2   | 66    | 0.22  |    |
| JPR 88471 | Soil              |             | 0.5  | 18.6  | 6.0   | 66    | <0.1  | 10.4  | 11.6  | 613   | 3.06  | 3.6   | 0.7   | 0.9   | 8.4   | 18    | <0.1  | 0.2   | 0.2   | 59    | 0.27  |    |
| JPR 88472 | Soil              |             | 1.2  | 10.9  | 9.7   | 58    | <0.1  | 13.1  | 7.1   | 290   | 2.90  | 8.3   | 0.7   | 1.0   | 3.0   | 14    | <0.1  | 0.3   | 0.2   | 59    | 0.16  |    |
| JPR 88473 | Soil              |             | 1.4  | 15.1  | 5.1   | 78    | <0.1  | 7.9   | 12.7  | 698   | 3.58  | 2.8   | 0.9   | 0.9   | 9.0   | 19    | 0.1   | 0.1   | <0.1  | 68    | 0.32  |    |
| JPR 88475 | Soil              |             | 1.0  | 12.7  | 9.3   | 65    | <0.1  | 12.6  | 9.2   | 470   | 3.12  | 7.7   | 0.9   | 0.9   | 8.1   | 15    | 0.1   | 0.3   | 0.2   | 65    | 0.18  |    |
| JPR 88476 | Soil              |             | 1.1  | 32.7  | 3.1   | 85    | <0.1  | 6.6   | 19.9  | 855   | 4.95  | 1.3   | 0.5   | 0.9   | 3.9   | 23    | <0.1  | <0.1  | <0.1  | 105   | 0.57  |    |
| JPR 88477 | Soil              |             | 2.5  | 14.8  | 9.7   | 63    | <0.1  | 13.7  | 11.8  | 385   | 3.62  | 7.7   | 0.6   | 1.6   | 4.4   | 13    | 0.1   | 0.3   | 0.2   | 72    | 0.15  |    |
| JPR 88480 | Soil              |             | 2.0  | 19.7  | 10.0  | 68    | 0.1   | 12.4  | 10.7  | 466   | 3.12  | 4.8   | 1.1   | 1.9   | 6.6   | 19    | <0.1  | 0.3   | 0.2   | 66    | 0.30  |    |
| JPR 88483 | Soil              |             | 0.5  | 18.5  | 6.3   | 80    | <0.1  | 8.8   | 10.9  | 703   | 3.32  | 4.0   | 1.2   | 1.1   | 15.8  | 23    | <0.1  | 0.3   | <0.1  | 53    | 0.32  |    |
| JPR 88490 | Soil              |             | 2.2  | 16.0  | 13.2  | 57    | 0.1   | 16.9  | 7.9   | 282   | 2.82  | 7.6   | 1.2   | 3.0   | 9.8   | 14    | 0.2   | 0.3   | 0.2   | 58    | 0.20  |    |
| JPR 88494 | Soil              |             | 1.0  | 18.1  | 9.3   | 75    | <0.1  | 13.8  | 9.8   | 534   | 3.18  | 5.5   | 1.1   | 3.5   | 12.0  | 24    | 0.1   | 0.3   | 0.1   | 56    | 0.34  |    |
| JPR 88497 | Soil              |             | 0.6  | 25.4  | 7.2   | 58    | <0.1  | 22.6  | 12.6  | 382   | 3.25  | 8.5   | 0.7   | 2.9   | 4.3   | 29    | <0.1  | 0.6   | 0.1   | 67    | 0.27  |    |
| JPR 88498 | Soil              |             | 1.0  | 14.9  | 9.7   | 60    | <0.1  | 18.9  | 11.3  | 321   | 3.40  | 9.7   | 0.5   | 1.4   | 3.9   | 15    | <0.1  | 0.6   | 0.2   | 71    | 0.15  |    |
| JPR 88499 | Soil              |             | 0.5  | 24.2  | 8.5   | 271   | <0.1  | 15.0  | 15.6  | 703   | 5.22  | 4.4   | 0.6   | <0.5  | 6.3   | 12    | 0.3   | 0.3   | <0.1  | 122   | 0.16  |    |
| JPR 88557 | Soil              |             | 1.0  | 15.6  | 6.7   | 71    | <0.1  | 11.8  | 9.3   | 472   | 3.92  | 9.6   | 1.2   | 2.6   | 5.2   | 73    | <0.1  | 0.3   | <0.1  | 71    | 0.60  |    |
| JPR 88558 | Soil              |             | 0.4  | 13.9  | 13.8  | 59    | <0.1  | 7.1   | 6.6   | 257   | 3.10  | 5.0   | 1.1   | <0.5  | 7.1   | 91    | <0.1  | 0.2   | 0.2   | 45    | 0.55  |    |
| JPR 88559 | Soil              |             | 0.4  | 11.9  | 18.1  | 100   | <0.1  | 4.1   | 6.2   | 679   | 3.67  | 3.0   | 1.8   | 1.1   | 8.1   | 132   | <0.1  | 0.2   | <0.1  | 39    | 1.05  |    |



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Project: JPR  
Report Date: December 14, 2009

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## CERTIFICATE OF ANALYSIS

VAN09005585.1

|           | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|           |                                  | P     | 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   |
|           |                                  | 0.001 | 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   |
| JPR 88433 | Soil                             | 0.032 | 12    | 20    | 1.24  | 213   | 0.209 | 1     | 2.63  | 0.009 | 0.69  | 0.1   | 0.02  | 2.1   | 0.3   | <0.05 | 7     | <0.5  |
| JPR 88434 | Soil                             | 0.037 | 12    | 23    | 1.21  | 211   | 0.181 | 1     | 2.69  | 0.013 | 0.69  | 0.1   | 0.01  | 2.1   | 0.2   | <0.05 | 7     | <0.5  |
| JPR 88435 | Soil                             | 0.018 | 9     | 29    | 0.94  | 218   | 0.167 | 1     | 2.47  | 0.010 | 0.34  | 0.1   | 0.01  | 2.5   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 88440 | Soil                             | 0.116 | 23    | 33    | 0.68  | 203   | 0.074 | <1    | 1.52  | 0.007 | 0.17  | 0.1   | 0.02  | 3.1   | 0.2   | <0.05 | 6     | 1.2   |
| JPR 88441 | Soil                             | 0.035 | 14    | 35    | 0.76  | 256   | 0.085 | 1     | 2.15  | 0.008 | 0.14  | 0.2   | 0.02  | 3.9   | 0.1   | <0.05 | 7     | <0.5  |
| JPR 88442 | Soil                             | 0.161 | 8     | 18    | 1.21  | 446   | 0.198 | <1    | 2.98  | 0.017 | 1.03  | <0.1  | 0.01  | 3.9   | 0.3   | <0.05 | 8     | <0.5  |
| JPR 88443 | Soil                             | 0.042 | 13    | 26    | 0.56  | 194   | 0.095 | <1    | 1.53  | 0.011 | 0.09  | 0.1   | 0.02  | 2.8   | <0.1  | <0.05 | 5     | <0.5  |
| JPR 88444 | Soil                             | 0.160 | 17    | 14    | 1.79  | 610   | 0.316 | <1    | 3.51  | 0.010 | 2.03  | <0.1  | <0.01 | 2.1   | 0.6   | <0.05 | 8     | <0.5  |
| JPR 88445 | Soil                             | 0.084 | 14    | 20    | 1.66  | 359   | 0.248 | 1     | 3.29  | 0.007 | 1.49  | <0.1  | <0.01 | 3.2   | 0.5   | <0.05 | 7     | 0.5   |
| JPR 88446 | Soil                             | 0.042 | 7     | 29    | 0.81  | 317   | 0.137 | <1    | 1.67  | 0.009 | 0.30  | 0.2   | 0.02  | 4.3   | 0.1   | <0.05 | 7     | <0.5  |
| JPR 88447 | Soil                             | 0.035 | 15    | 29    | 0.71  | 153   | 0.105 | 1     | 2.11  | 0.011 | 0.16  | 0.2   | 0.02  | 4.1   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 88448 | Soil                             | 0.074 | 21    | 31    | 1.13  | 314   | 0.140 | 1     | 2.08  | 0.014 | 0.30  | 0.1   | 0.01  | 4.2   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 88469 | Soil                             | 0.116 | 18    | 13    | 1.85  | 362   | 0.277 | <1    | 3.08  | 0.008 | 1.47  | 0.2   | 0.01  | 3.6   | 0.3   | <0.05 | 7     | <0.5  |
| JPR 88470 | Soil                             | 0.041 | 17    | 23    | 0.70  | 179   | 0.123 | <1    | 1.99  | 0.009 | 0.18  | 0.2   | 0.03  | 2.9   | 0.1   | <0.05 | 6     | <0.5  |
| JPR 88471 | Soil                             | 0.060 | 23    | 16    | 0.94  | 190   | 0.148 | <1    | 1.90  | 0.007 | 0.58  | 0.2   | <0.01 | 2.1   | 0.3   | <0.05 | 5     | <0.5  |
| JPR 88472 | Soil                             | 0.047 | 14    | 23    | 0.57  | 113   | 0.081 | 1     | 1.74  | 0.008 | 0.09  | 0.1   | 0.02  | 2.1   | 0.1   | <0.05 | 6     | <0.5  |
| JPR 88473 | Soil                             | 0.089 | 28    | 14    | 1.18  | 283   | 0.178 | 1     | 2.28  | 0.010 | 0.88  | 0.1   | 0.03  | 2.5   | 0.3   | <0.05 | 6     | <0.5  |
| JPR 88475 | Soil                             | 0.034 | 17    | 25    | 0.67  | 126   | 0.123 | 1     | 1.97  | 0.011 | 0.17  | 0.1   | 0.02  | 3.0   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 88476 | Soil                             | 0.124 | 16    | 11    | 1.39  | 389   | 0.133 | <1    | 2.82  | 0.016 | 0.91  | <0.1  | 0.02  | 5.5   | 0.3   | <0.05 | 7     | <0.5  |
| JPR 88477 | Soil                             | 0.034 | 10    | 25    | 0.82  | 149   | 0.118 | <1    | 2.30  | 0.008 | 0.23  | 0.2   | 0.02  | 2.8   | 0.1   | <0.05 | 6     | <0.5  |
| JPR 88480 | Soil                             | 0.082 | 16    | 20    | 0.93  | 191   | 0.110 | <1    | 2.07  | 0.011 | 0.44  | 0.1   | 0.02  | 4.0   | 0.2   | <0.05 | 5     | <0.5  |
| JPR 88483 | Soil                             | 0.057 | 52    | 13    | 0.95  | 226   | 0.158 | <1    | 2.19  | 0.012 | 0.68  | <0.1  | 0.02  | 3.8   | 0.4   | <0.05 | 7     | <0.5  |
| JPR 88490 | Soil                             | 0.037 | 20    | 25    | 0.57  | 145   | 0.099 | <1    | 1.86  | 0.007 | 0.16  | 0.1   | 0.03  | 3.3   | 0.1   | <0.05 | 6     | 0.5   |
| JPR 88494 | Soil                             | 0.054 | 27    | 21    | 0.71  | 212   | 0.141 | <1    | 1.69  | 0.010 | 0.43  | 0.1   | 0.02  | 3.7   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 88497 | Soil                             | 0.036 | 15    | 34    | 0.87  | 534   | 0.138 | 1     | 2.08  | 0.011 | 0.21  | 0.2   | 0.01  | 3.7   | 0.1   | <0.05 | 6     | <0.5  |
| JPR 88498 | Soil                             | 0.037 | 10    | 34    | 0.70  | 357   | 0.092 | 1     | 2.49  | 0.009 | 0.12  | 0.2   | 0.02  | 2.8   | 0.1   | <0.05 | 6     | <0.5  |
| JPR 88499 | Soil                             | 0.028 | 14    | 29    | 1.71  | 420   | 0.249 | <1    | 3.26  | 0.010 | 0.61  | 0.1   | <0.01 | 6.6   | 0.3   | <0.05 | 9     | <0.5  |
| JPR 88557 | Soil                             | 0.079 | 21    | 21    | 0.92  | 312   | 0.063 | <1    | 2.51  | 0.021 | 0.04  | <0.1  | 0.02  | 6.4   | <0.1  | <0.05 | 7     | <0.5  |
| JPR 88558 | Soil                             | 0.029 | 24    | 12    | 0.80  | 255   | 0.060 | <1    | 2.78  | 0.019 | 0.04  | <0.1  | 0.03  | 5.1   | <0.1  | <0.05 | 7     | <0.5  |
| JPR 88559 | Soil                             | 0.134 | 32    | 4     | 0.90  | 201   | 0.074 | <1    | 2.31  | 0.078 | 0.05  | <0.1  | <0.01 | 4.9   | <0.1  | <0.05 | 6     | <0.5  |



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Project: JPR  
Report Date: December 14, 2009

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## CERTIFICATE OF ANALYSIS

VAN09005585.1

|           | Method | Analyte | Unit | MDL | WGHT | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |      |      |
|-----------|--------|---------|------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
|           |        |         |      |     | Wgt  | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V    | Ca   |
|           |        |         |      |     | kg   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm  | %    |
|           |        |         |      |     | 0.01 | 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 |
| JPR 88560 | Soil   |         |      |     | 0.8  | 20.9  | 11.2  | 61    | <0.1  | 15.6  | 9.4   | 503   | 3.30  | 9.3   | 1.6   | 1.2   | 6.9   | 58    | <0.1  | 0.6   | 0.2   | 66    | 0.45 |      |
| JPR 88561 | Soil   |         |      |     | 0.7  | 12.4  | 11.5  | 56    | <0.1  | 10.5  | 7.5   | 395   | 3.07  | 6.1   | 0.9   | 1.4   | 4.4   | 61    | <0.1  | 0.3   | 0.2   | 63    | 0.47 |      |
| JPR 88562 | Soil   |         |      |     | 1.2  | 11.3  | 10.5  | 45    | <0.1  | 13.3  | 5.6   | 258   | 2.68  | 8.9   | 0.5   | 4.0   | 3.1   | 34    | <0.1  | 0.4   | 0.2   | 66    | 0.21 |      |
| JPR 88563 | Soil   |         |      |     | 1.0  | 26.0  | 10.9  | 52    | <0.1  | 21.1  | 8.3   | 326   | 2.96  | 9.8   | 1.0   | 2.4   | 4.6   | 42    | 0.1   | 0.6   | 0.2   | 64    | 0.28 |      |
| JPR 88564 | Soil   |         |      |     | 1.0  | 13.7  | 8.7   | 51    | <0.1  | 11.7  | 6.4   | 377   | 2.71  | 6.8   | 1.3   | 3.0   | 5.5   | 51    | <0.1  | 0.5   | 0.2   | 50    | 0.38 |      |
| JPR 88565 | Soil   |         |      |     | 2.1  | 12.4  | 6.4   | 64    | <0.1  | 6.1   | 5.6   | 468   | 3.47  | 7.0   | 1.8   | 1.0   | 7.9   | 72    | 0.2   | 0.6   | 0.1   | 45    | 0.56 |      |
| JPR 88566 | Soil   |         |      |     | 0.9  | 10.8  | 10.8  | 66    | <0.1  | 10.2  | 5.6   | 460   | 2.81  | 6.7   | 1.4   | 1.2   | 5.6   | 126   | <0.1  | 0.4   | 0.5   | 46    | 0.45 |      |
| JPR 88567 | Soil   |         |      |     | 1.0  | 10.0  | 8.8   | 63    | <0.1  | 7.6   | 6.3   | 414   | 2.95  | 5.5   | 1.2   | 1.3   | 4.7   | 147   | 0.1   | 0.3   | 0.1   | 48    | 0.49 |      |
| JPR 88568 | Soil   |         |      |     | 1.2  | 17.2  | 7.0   | 79    | <0.1  | 10.2  | 5.9   | 691   | 2.89  | 6.9   | 1.7   | 1.8   | 7.3   | 81    | <0.1  | 0.5   | 0.1   | 49    | 0.63 |      |
| JPR 88660 | Soil   |         |      |     | 0.6  | 10.0  | 7.0   | 81    | <0.1  | 10.9  | 11.6  | 770   | 4.12  | 5.6   | 0.7   | 1.3   | 15.9  | 22    | <0.1  | 0.4   | <0.1  | 76    | 0.19 |      |
| JPR 88661 | Soil   |         |      |     | 0.7  | 15.9  | 9.9   | 74    | <0.1  | 16.3  | 9.6   | 456   | 3.43  | 8.4   | 0.9   | 2.0   | 8.8   | 28    | 0.1   | 0.6   | 0.2   | 64    | 0.22 |      |
| JPR 88662 | Soil   |         |      |     | 0.5  | 15.6  | 6.6   | 77    | <0.1  | 15.4  | 13.1  | 625   | 4.22  | 8.2   | 0.8   | 2.1   | 14.0  | 29    | <0.1  | 0.5   | 0.1   | 76    | 0.30 |      |
| JPR 88663 | Soil   |         |      |     | 1.0  | 13.4  | 9.8   | 59    | <0.1  | 17.6  | 10.2  | 343   | 3.71  | 9.4   | 0.5   | 2.7   | 5.4   | 14    | 0.1   | 0.5   | 0.2   | 73    | 0.15 |      |
| JPR 88664 | Soil   |         |      |     | 0.5  | 15.7  | 6.8   | 70    | <0.1  | 15.7  | 11.7  | 427   | 3.79  | 7.5   | 0.7   | 1.4   | 11.6  | 22    | <0.1  | 0.5   | 0.1   | 69    | 0.24 |      |
| JPR 88665 | Soil   |         |      |     | 0.3  | 13.3  | 4.3   | 69    | <0.1  | 7.8   | 11.0  | 600   | 3.57  | 3.7   | 1.1   | 0.9   | 12.5  | 24    | <0.1  | 0.3   | <0.1  | 62    | 0.29 |      |
| JPR 88666 | Soil   |         |      |     | 0.9  | 18.9  | 36.1  | 74    | 0.8   | 16.2  | 8.9   | 385   | 3.02  | 6.8   | 0.7   | 6.1   | 6.6   | 22    | 0.2   | 0.5   | 0.3   | 61    | 0.25 |      |
| JPR 88667 | Soil   |         |      |     | 0.5  | 18.0  | 10.0  | 75    | <0.1  | 11.8  | 11.1  | 601   | 3.79  | 5.9   | 1.3   | 1.3   | 16.7  | 35    | <0.1  | 0.5   | <0.1  | 65    | 0.39 |      |
| JPR 88668 | Soil   |         |      |     | 1.1  | 26.3  | 9.9   | 79    | <0.1  | 14.6  | 12.7  | 642   | 4.50  | 8.3   | 1.3   | 3.3   | 19.8  | 28    | <0.1  | 0.6   | 0.1   | 86    | 0.26 |      |
| JPR 88669 | Soil   |         |      |     | 0.2  | 21.5  | 14.0  | 54    | <0.1  | 1.8   | 6.7   | 446   | 2.66  | 0.8   | 1.8   | 1.7   | 13.7  | 184   | <0.1  | 0.1   | 0.2   | 42    | 0.48 |      |
| JPR 88670 | Soil   |         |      |     | 0.9  | 13.7  | 10.5  | 104   | <0.1  | 16.9  | 12.0  | 523   | 4.04  | 7.3   | 1.0   | 1.6   | 13.3  | 35    | 0.2   | 0.5   | 0.2   | 81    | 0.33 |      |
| JPR 88671 | Soil   |         |      |     | 0.5  | 12.4  | 6.8   | 74    | <0.1  | 10.5  | 11.9  | 648   | 3.82  | 5.1   | 1.3   | 0.6   | 15.4  | 36    | <0.1  | 0.3   | <0.1  | 68    | 0.37 |      |
| JPR 88672 | Soil   |         |      |     | 1.2  | 15.0  | 14.6  | 79    | 0.3   | 17.6  | 9.4   | 427   | 3.21  | 7.1   | 0.8   | 1.4   | 7.0   | 24    | 0.4   | 0.5   | 0.2   | 68    | 0.23 |      |
| JPR 88673 | Soil   |         |      |     | 0.8  | 16.9  | 10.2  | 70    | <0.1  | 17.0  | 11.5  | 497   | 3.74  | 9.6   | 0.8   | 2.2   | 8.8   | 29    | <0.1  | 0.6   | 0.1   | 73    | 0.27 |      |
| JPR 88674 | Soil   |         |      |     | 0.4  | 6.3   | 9.5   | 105   | <0.1  | 7.5   | 15.4  | 888   | 4.81  | 3.5   | 0.6   | 1.3   | 12.1  | 25    | <0.1  | 0.1   | <0.1  | 88    | 0.28 |      |
| JPR 88675 | Soil   |         |      |     | 0.8  | 8.3   | 6.8   | 142   | <0.1  | 9.8   | 16.8  | 1000  | 4.43  | 1.8   | 0.8   | 27.5  | 19.8  | 33    | 0.1   | 0.1   | <0.1  | 80    | 0.34 |      |
| JPR 88676 | Soil   |         |      |     | 0.5  | 12.6  | 5.8   | 97    | <0.1  | 11.5  | 16.3  | 845   | 4.85  | 6.7   | 0.9   | 0.6   | 23.1  | 23    | <0.1  | 0.4   | <0.1  | 75    | 0.26 |      |
| JPR 88677 | Soil   |         |      |     | 1.0  | 10.6  | 8.0   | 64    | <0.1  | 17.0  | 9.1   | 393   | 2.95  | 5.9   | 0.6   | 2.8   | 6.1   | 22    | <0.1  | 0.5   | 0.1   | 64    | 0.24 |      |
| JPR 88678 | Soil   |         |      |     | 1.3  | 41.5  | 7.8   | 78    | <0.1  | 15.4  | 12.0  | 1114  | 3.26  | 6.3   | 1.0   | 5.2   | 11.5  | 31    | 0.1   | 0.5   | 0.1   | 61    | 0.32 |      |
| JPR 88679 | Soil   |         |      |     | 87.1 | 23.6  | 49.4  | 84    | 0.2   | 8.1   | 10.7  | 467   | 3.00  | 6.0   | 5.4   | 1.2   | 26.0  | 31    | 0.1   | 0.8   | 2.5   | 62    | 0.34 |      |
| JPR 88680 | Soil   |         |      |     | 0.5  | 15.6  | 8.6   | 104   | <0.1  | 12.1  | 13.7  | 860   | 4.23  | 4.8   | 1.0   | 0.7   | 19.2  | 55    | 0.1   | 0.4   | <0.1  | 71    | 0.38 |      |



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Project: JPR  
Report Date: December 14, 2009

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## CERTIFICATE OF ANALYSIS

VAN09005585.1

|           | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|           |                                  | P     | 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   |
|           |                                  | 0.001 | 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   |
| JPR 88560 | Soil                             | 0.043 | 23    | 30    | 0.66  | 317   | 0.083 | 1     | 2.64  | 0.018 | 0.05  | <0.1  | 0.04  | 7.1   | 0.1   | <0.05 | 6     | <0.5  |
| JPR 88561 | Soil                             | 0.049 | 13    | 21    | 0.58  | 270   | 0.088 | <1    | 2.57  | 0.014 | 0.05  | <0.1  | 0.02  | 3.6   | 0.1   | <0.05 | 7     | <0.5  |
| JPR 88562 | Soil                             | 0.027 | 11    | 24    | 0.40  | 267   | 0.066 | <1    | 2.27  | 0.013 | 0.03  | 0.1   | 0.02  | 2.9   | 0.1   | <0.05 | 7     | <0.5  |
| JPR 88563 | Soil                             | 0.024 | 15    | 33    | 0.49  | 408   | 0.076 | <1    | 2.38  | 0.015 | 0.05  | 0.1   | 0.02  | 3.6   | 0.1   | <0.05 | 6     | <0.5  |
| JPR 88564 | Soil                             | 0.040 | 17    | 25    | 0.48  | 303   | 0.085 | <1    | 1.86  | 0.027 | 0.06  | 0.2   | 0.02  | 4.5   | 0.1   | <0.05 | 5     | <0.5  |
| JPR 88565 | Soil                             | 0.081 | 21    | 10    | 0.43  | 313   | 0.139 | <1    | 1.76  | 0.040 | 0.09  | 0.5   | 0.03  | 6.4   | <0.1  | <0.05 | 5     | <0.5  |
| JPR 88566 | Soil                             | 0.038 | 18    | 18    | 0.51  | 400   | 0.114 | <1    | 2.74  | 0.031 | 0.06  | 0.2   | 0.02  | 4.9   | 0.1   | <0.05 | 7     | <0.5  |
| JPR 88567 | Soil                             | 0.060 | 14    | 16    | 0.55  | 461   | 0.122 | <1    | 2.38  | 0.045 | 0.09  | 0.2   | 0.02  | 3.7   | <0.1  | <0.05 | 7     | <0.5  |
| JPR 88568 | Soil                             | 0.088 | 25    | 17    | 0.71  | 475   | 0.115 | <1    | 2.06  | 0.034 | 0.08  | 0.3   | 0.05  | 6.0   | <0.1  | <0.05 | 6     | <0.5  |
| JPR 88660 | Soil                             | 0.017 | 26    | 21    | 1.02  | 223   | 0.254 | <1    | 2.50  | 0.015 | 0.88  | 0.1   | <0.01 | 2.6   | 0.5   | <0.05 | 8     | <0.5  |
| JPR 88661 | Soil                             | 0.035 | 19    | 29    | 0.70  | 173   | 0.104 | <1    | 2.11  | 0.011 | 0.10  | 0.1   | 0.02  | 3.6   | <0.1  | <0.05 | 6     | <0.5  |
| JPR 88662 | Soil                             | 0.052 | 25    | 27    | 1.01  | 203   | 0.263 | <1    | 2.63  | 0.014 | 0.65  | 0.2   | 0.01  | 3.2   | 0.4   | <0.05 | 8     | <0.5  |
| JPR 88663 | Soil                             | 0.068 | 10    | 28    | 0.63  | 171   | 0.138 | <1    | 2.36  | 0.011 | 0.18  | 0.2   | 0.02  | 2.4   | 0.2   | <0.05 | 7     | <0.5  |
| JPR 88664 | Soil                             | 0.043 | 15    | 25    | 0.79  | 164   | 0.185 | <1    | 2.50  | 0.013 | 0.27  | 0.2   | 0.01  | 2.4   | 0.2   | <0.05 | 7     | <0.5  |
| JPR 88665 | Soil                             | 0.034 | 34    | 14    | 1.01  | 131   | 0.212 | <1    | 2.49  | 0.010 | 0.72  | 0.1   | 0.01  | 4.9   | 0.4   | <0.05 | 8     | <0.5  |
| JPR 88666 | Soil                             | 0.033 | 17    | 28    | 0.47  | 173   | 0.086 | <1    | 1.73  | 0.010 | 0.21  | 0.1   | 0.02  | 3.8   | 0.1   | <0.05 | 5     | <0.5  |
| JPR 88667 | Soil                             | 0.042 | 32    | 21    | 0.98  | 188   | 0.123 | <1    | 2.39  | 0.011 | 0.43  | 0.1   | 0.01  | 4.1   | 0.3   | <0.05 | 8     | 0.5   |
| JPR 88668 | Soil                             | 0.018 | 32    | 25    | 1.09  | 196   | 0.225 | <1    | 2.94  | 0.012 | 0.88  | 0.1   | 0.01  | 5.4   | 0.4   | <0.05 | 9     | 0.6   |
| JPR 88669 | Soil                             | 0.007 | 39    | 4     | 0.79  | 527   | 0.082 | <1    | 2.48  | 0.014 | 0.45  | <0.1  | 0.01  | 3.7   | 0.4   | <0.05 | 10    | <0.5  |
| JPR 88670 | Soil                             | 0.042 | 30    | 28    | 0.82  | 247   | 0.177 | <1    | 2.75  | 0.011 | 0.50  | 0.1   | 0.01  | 3.5   | 0.3   | <0.05 | 8     | <0.5  |
| JPR 88671 | Soil                             | 0.047 | 32    | 19    | 0.95  | 214   | 0.205 | <1    | 2.47  | 0.012 | 0.86  | 0.1   | 0.02  | 3.6   | 0.4   | <0.05 | 8     | <0.5  |
| JPR 88672 | Soil                             | 0.031 | 16    | 28    | 0.58  | 200   | 0.104 | <1    | 2.14  | 0.012 | 0.26  | 0.2   | 0.02  | 3.3   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 88673 | Soil                             | 0.025 | 22    | 31    | 0.80  | 222   | 0.168 | <1    | 2.35  | 0.012 | 0.33  | 0.2   | 0.02  | 4.0   | 0.2   | <0.05 | 7     | <0.5  |
| JPR 88674 | Soil                             | 0.071 | 11    | 9     | 1.32  | 166   | 0.357 | <1    | 3.55  | 0.012 | 1.05  | <0.1  | <0.01 | 1.7   | 0.7   | <0.05 | 10    | <0.5  |
| JPR 88675 | Soil                             | 0.109 | 41    | 13    | 1.17  | 332   | 0.296 | <1    | 2.92  | 0.013 | 0.99  | 0.1   | <0.01 | 3.0   | 0.6   | <0.05 | 10    | <0.5  |
| JPR 88676 | Soil                             | 0.060 | 28    | 19    | 1.31  | 149   | 0.234 | <1    | 3.09  | 0.008 | 1.03  | 0.1   | <0.01 | 4.3   | 0.5   | <0.05 | 9     | <0.5  |
| JPR 88677 | Soil                             | 0.030 | 12    | 27    | 0.56  | 265   | 0.083 | <1    | 1.83  | 0.011 | 0.10  | 0.1   | <0.01 | 2.7   | 0.1   | <0.05 | 6     | <0.5  |
| JPR 88678 | Soil                             | 0.052 | 27    | 22    | 0.57  | 336   | 0.091 | <1    | 1.99  | 0.012 | 0.26  | <0.1  | 0.02  | 3.7   | 0.1   | <0.05 | 7     | <0.5  |
| JPR 88679 | Soil                             | 0.039 | 74    | 13    | 0.59  | 189   | 0.025 | <1    | 1.93  | 0.011 | 0.22  | <0.1  | 0.01  | 4.0   | 0.3   | <0.05 | 8     | 0.6   |
| JPR 88680 | Soil                             | 0.054 | 38    | 19    | 0.92  | 233   | 0.165 | <1    | 2.59  | 0.013 | 0.73  | <0.1  | <0.01 | 3.7   | 0.3   | <0.05 | 9     | <0.5  |



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Report Date: December 14, 2009

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## QUALITY CONTROL REPORT

VAN09005585.1

|                 | Method<br>Analyte<br>Unit<br>MDL | WGHT | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------------|----------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                 |                                  | Wgt  | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     |
|                 |                                  | kg   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   |
|                 |                                  | 0.01 | 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     |
| Pulp Duplicates |                                  |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| JPR 80892       | Soil                             |      | 1.7   | 28.2  | 9.2   | 72    | <0.1  | 26.2  | 15.0  | 467   | 3.40  | 8.1   | 0.6   | 2.0   | 3.8   | 21    | 0.2   | 0.5   | 0.2   | 76    |
| REP JPR 80892   | QC                               |      | 1.5   | 28.3  | 9.0   | 69    | <0.1  | 25.8  | 14.4  | 455   | 3.45  | 8.4   | 0.6   | 1.7   | 3.7   | 21    | 0.3   | 0.5   | 0.2   | 76    |
| JPR 81696       | Soil                             |      | 3.8   | 88.6  | 9.6   | 88    | 0.1   | 43.5  | 16.5  | 461   | 4.44  | 9.1   | 0.7   | 2.2   | 5.0   | 15    | 0.1   | 0.5   | 0.2   | 116   |
| REP JPR 81696   | QC                               |      | 4.0   | 84.6  | 9.2   | 87    | 0.1   | 43.8  | 16.9  | 453   | 4.23  | 8.8   | 0.7   | 7.4   | 4.9   | 15    | 0.1   | 0.5   | 0.2   | 116   |
| JPR 81720       | Soil                             |      | 0.3   | 124.2 | 1.9   | 25    | <0.1  | 117.3 | 22.2  | 200   | 1.96  | 2.7   | 0.2   | 0.6   | 0.9   | 12    | <0.1  | 0.1   | <0.1  | 46    |
| REP JPR 81720   | QC                               |      | 0.3   | 126.8 | 1.7   | 25    | <0.1  | 112.4 | 22.0  | 203   | 1.88  | 2.7   | 0.2   | <0.5  | 0.8   | 12    | <0.1  | 0.1   | <0.1  | 44    |
| JPR 81819       | Soil                             |      | 0.6   | 20.0  | 11.6  | 45    | <0.1  | 19.0  | 6.7   | 306   | 2.03  | 6.5   | 0.9   | 2.4   | 4.6   | 47    | <0.1  | 0.5   | 0.2   | 45    |
| REP JPR 81819   | QC                               |      | 0.6   | 19.8  | 11.5  | 43    | <0.1  | 18.6  | 6.4   | 304   | 2.04  | 6.6   | 0.9   | 2.8   | 4.7   | 48    | <0.1  | 0.5   | 0.2   | 45    |
| JPR 81914       | Soil                             |      | 1.0   | 24.2  | 14.2  | 68    | 0.1   | 32.0  | 12.7  | 349   | 3.60  | 9.5   | 1.3   | 2.1   | 7.8   | 20    | 0.1   | 0.6   | 0.3   | 64    |
| REP JPR 81914   | QC                               |      | 1.1   | 24.2  | 13.9  | 69    | 0.1   | 33.6  | 13.0  | 352   | 3.53  | 9.6   | 1.3   | 3.7   | 7.5   | 18    | 0.2   | 0.6   | 0.2   | 61    |
| JPR 83501       | Soil                             |      | 1.0   | 51.2  | 9.2   | 65    | <0.1  | 35.4  | 13.4  | 443   | 3.14  | 9.3   | 1.5   | 5.2   | 5.1   | 23    | <0.1  | 0.6   | 0.2   | 73    |
| REP JPR 83501   | QC                               |      | 1.0   | 53.8  | 9.5   | 63    | <0.1  | 36.6  | 13.8  | 465   | 3.21  | 9.4   | 1.5   | 1.7   | 5.1   | 23    | <0.1  | 0.6   | 0.2   | 76    |
| JPR 85309       | Soil                             |      | 2.8   | 87.0  | 8.6   | 105   | <0.1  | 90.9  | 27.3  | 1179  | 5.24  | 20.9  | 0.9   | 7.4   | 4.8   | 19    | 0.1   | 0.9   | <0.1  | 127   |
| REP JPR 85309   | QC                               |      | 2.6   | 84.9  | 8.7   | 106   | <0.1  | 88.2  | 27.0  | 1157  | 5.13  | 20.9  | 1.0   | 2.6   | 4.7   | 19    | 0.2   | 1.0   | <0.1  | 127   |
| JPR 85343       | Soil                             |      | 0.4   | 42.6  | 4.0   | 65    | <0.1  | 194.0 | 26.1  | 506   | 3.90  | 3.2   | 0.4   | <0.5  | 4.5   | 49    | <0.1  | 0.2   | <0.1  | 79    |
| REP JPR 85343   | QC                               |      | 0.5   | 42.5  | 3.9   | 62    | <0.1  | 194.5 | 26.3  | 506   | 3.90  | 3.2   | 0.4   | <0.5  | 4.2   | 47    | <0.1  | 0.1   | <0.1  | 79    |
| JPR 85741       | Soil                             |      | 0.7   | 39.8  | 8.0   | 58    | <0.1  | 32.6  | 9.9   | 383   | 2.78  | 9.8   | 0.9   | 3.2   | 4.8   | 29    | <0.1  | 0.6   | 0.2   | 65    |
| REP JPR 85741   | QC                               |      | 0.6   | 39.9  | 8.5   | 59    | <0.1  | 32.9  | 10.1  | 370   | 2.82  | 10.1  | 0.9   | 3.8   | 4.9   | 28    | <0.1  | 0.7   | 0.2   | 64    |
| JPR 87228       | Soil                             |      | 0.3   | 17.6  | 13.0  | 77    | 0.2   | 12.2  | 29.6  | 1342  | 5.10  | 1.3   | 0.5   | 12.7  | 4.5   | 21    | 0.3   | 0.1   | 0.2   | 97    |
| REP JPR 87228   | QC                               |      | 0.3   | 17.1  | 13.1  | 79    | 0.2   | 11.4  | 29.4  | 1345  | 5.19  | 1.5   | 0.5   | 11.3  | 4.7   | 22    | 0.3   | <0.1  | 0.1   | 97    |
| JPR 87302       | Soil                             |      | 1.3   | 19.9  | 8.9   | 63    | <0.1  | 19.7  | 8.7   | 351   | 3.44  | 9.2   | 0.6   | 1.3   | 4.3   | 16    | <0.1  | 0.5   | 0.2   | 57    |
| REP JPR 87302   | QC                               |      | 1.4   | 19.3  | 8.6   | 64    | <0.1  | 20.3  | 9.1   | 355   | 3.41  | 9.4   | 0.7   | 1.9   | 4.1   | 16    | <0.1  | 0.6   | 0.2   | 57    |
| JPR 87846       | Soil                             |      | 1.0   | 32.0  | 10.7  | 66    | <0.1  | 27.7  | 12.8  | 281   | 3.20  | 7.7   | 0.5   | 1.4   | 3.1   | 10    | 0.2   | 0.4   | 0.2   | 74    |
| REP JPR 87846   | QC                               |      | 1.0   | 32.1  | 10.7  | 66    | <0.1  | 28.6  | 13.3  | 286   | 3.25  | 7.6   | 0.4   | 1.5   | 3.0   | 10    | 0.1   | 0.4   | 0.2   | 73    |
| JPR 88315       | Soil                             |      | 1.0   | 10.6  | 10.7  | 58    | <0.1  | 12.4  | 9.1   | 390   | 2.86  | 7.5   | 0.8   | 2.5   | 6.8   | 15    | 0.1   | 0.3   | 0.2   | 54    |
| REP JPR 88315   | QC                               |      | 1.1   | 10.7  | 10.3  | 59    | <0.1  | 11.9  | 9.5   | 401   | 2.89  | 7.6   | 0.8   | 1.3   | 6.7   | 15    | 0.1   | 0.3   | 0.2   | 55    |
| JPR 88329       | Soil                             |      | 2.2   | 10.1  | 13.0  | 102   | <0.1  | 7.1   | 13.6  | 1025  | 4.19  | 4.4   | 1.1   | <0.5  | 13.9  | 16    | 0.2   | 0.2   | 0.1   | 77    |
| REP JPR 88329   | QC                               |      | 2.3   | 10.1  | 12.7  | 106   | <0.1  | 7.1   | 13.9  | 1076  | 4.07  | 4.3   | 1.2   | 0.6   | 13.2  | 16    | 0.2   | 0.2   | 0.1   | 77    |



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Project: JPR

Report Date: December 14, 2009

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## QUALITY CONTROL REPORT

VAN09005585.1

|                 | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                 |                                  | P     | 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   |
|                 |                                  | 0.001 | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |
| Pulp Duplicates |                                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| JPR 80892       | Soil                             | 0.042 | 10    | 39    | 0.70  | 203   | 0.125 | <1    | 2.07  | 0.013 | 0.19  | 0.1   | 0.01  | 3.7   | 0.1   | <0.05 | 6     | <0.5  |
| REP JPR 80892   | QC                               | 0.042 | 9     | 38    | 0.70  | 196   | 0.119 | <1    | 2.04  | 0.013 | 0.19  | 0.2   | <0.01 | 3.8   | 0.1   | <0.05 | 6     | 0.6   |
| JPR 81696       | Soil                             | 0.050 | 12    | 68    | 0.77  | 404   | 0.118 | <1    | 2.87  | 0.012 | 0.34  | 0.1   | 0.02  | 4.5   | 0.2   | <0.05 | 7     | 0.5   |
| REP JPR 81696   | QC                               | 0.050 | 12    | 68    | 0.78  | 388   | 0.116 | <1    | 2.89  | 0.011 | 0.32  | 0.1   | 0.02  | 4.4   | 0.2   | <0.05 | 8     | <0.5  |
| JPR 81720       | Soil                             | 0.102 | 4     | 61    | 0.75  | 121   | 0.071 | <1    | 1.15  | 0.036 | 0.06  | <0.1  | <0.01 | 3.3   | <0.1  | <0.05 | 3     | <0.5  |
| REP JPR 81720   | QC                               | 0.097 | 4     | 62    | 0.71  | 117   | 0.072 | <1    | 1.16  | 0.034 | 0.06  | <0.1  | <0.01 | 3.3   | <0.1  | <0.05 | 3     | <0.5  |
| JPR 81819       | Soil                             | 0.029 | 20    | 29    | 0.39  | 328   | 0.089 | <1    | 1.60  | 0.016 | 0.05  | <0.1  | 0.02  | 3.9   | 0.1   | <0.05 | 4     | <0.5  |
| REP JPR 81819   | QC                               | 0.029 | 20    | 30    | 0.40  | 311   | 0.089 | <1    | 1.60  | 0.018 | 0.05  | <0.1  | 0.02  | 3.7   | 0.1   | <0.05 | 4     | <0.5  |
| JPR 81914       | Soil                             | 0.019 | 19    | 49    | 0.84  | 204   | 0.119 | 2     | 2.35  | 0.011 | 0.13  | 0.1   | 0.02  | 4.0   | 0.2   | <0.05 | 6     | <0.5  |
| REP JPR 81914   | QC                               | 0.019 | 19    | 48    | 0.83  | 202   | 0.111 | 1     | 2.30  | 0.011 | 0.13  | 0.1   | 0.02  | 3.9   | 0.2   | <0.05 | 6     | 0.6   |
| JPR 83501       | Soil                             | 0.045 | 17    | 50    | 0.72  | 375   | 0.125 | <1    | 1.92  | 0.011 | 0.22  | 0.2   | 0.03  | 8.3   | 0.1   | <0.05 | 6     | <0.5  |
| REP JPR 83501   | QC                               | 0.047 | 18    | 51    | 0.73  | 390   | 0.125 | <1    | 1.97  | 0.012 | 0.22  | 0.1   | 0.03  | 8.4   | 0.1   | <0.05 | 6     | <0.5  |
| JPR 85309       | Soil                             | 0.122 | 15    | 122   | 1.43  | 429   | 0.166 | <1    | 3.06  | 0.012 | 0.49  | <0.1  | 0.01  | 6.6   | 0.2   | <0.05 | 10    | 0.6   |
| REP JPR 85309   | QC                               | 0.127 | 15    | 117   | 1.46  | 425   | 0.165 | <1    | 3.14  | 0.011 | 0.49  | <0.1  | 0.01  | 6.4   | 0.2   | <0.05 | 10    | <0.5  |
| JPR 85343       | Soil                             | 0.357 | 34    | 248   | 2.34  | 604   | 0.226 | <1    | 2.96  | 0.012 | 0.68  | <0.1  | <0.01 | 3.4   | 0.3   | <0.05 | 8     | <0.5  |
| REP JPR 85343   | QC                               | 0.347 | 34    | 252   | 2.24  | 614   | 0.232 | <1    | 2.95  | 0.012 | 0.71  | <0.1  | <0.01 | 3.4   | 0.3   | <0.05 | 8     | <0.5  |
| JPR 85741       | Soil                             | 0.051 | 18    | 42    | 0.66  | 448   | 0.123 | 1     | 1.74  | 0.019 | 0.09  | 0.1   | 0.04  | 6.0   | <0.1  | <0.05 | 5     | <0.5  |
| REP JPR 85741   | QC                               | 0.055 | 17    | 42    | 0.68  | 439   | 0.116 | 1     | 1.74  | 0.012 | 0.09  | 0.1   | 0.03  | 6.2   | 0.1   | <0.05 | 5     | <0.5  |
| JPR 87228       | Soil                             | 0.072 | 16    | 31    | 2.13  | 310   | 0.026 | <1    | 3.29  | 0.006 | 0.23  | <0.1  | 0.02  | 6.0   | 0.1   | <0.05 | 9     | <0.5  |
| REP JPR 87228   | QC                               | 0.074 | 16    | 32    | 2.16  | 310   | 0.027 | <1    | 3.39  | 0.005 | 0.24  | <0.1  | 0.02  | 6.0   | 0.2   | <0.05 | 9     | <0.5  |
| JPR 87302       | Soil                             | 0.033 | 14    | 31    | 0.53  | 217   | 0.136 | 1     | 2.15  | 0.011 | 0.17  | 0.1   | 0.02  | 3.9   | 0.2   | <0.05 | 7     | <0.5  |
| REP JPR 87302   | QC                               | 0.034 | 14    | 30    | 0.54  | 217   | 0.130 | <1    | 2.23  | 0.010 | 0.17  | 0.2   | 0.02  | 3.8   | 0.1   | <0.05 | 7     | <0.5  |
| JPR 87846       | Soil                             | 0.059 | 7     | 37    | 0.58  | 176   | 0.055 | <1    | 1.98  | 0.006 | 0.18  | 0.1   | 0.02  | 3.7   | 0.1   | <0.05 | 6     | <0.5  |
| REP JPR 87846   | QC                               | 0.060 | 7     | 37    | 0.59  | 175   | 0.059 | <1    | 2.04  | 0.006 | 0.18  | 0.1   | 0.02  | 3.7   | 0.1   | <0.05 | 6     | <0.5  |
| JPR 88315       | Soil                             | 0.042 | 14    | 21    | 0.56  | 130   | 0.090 | <1    | 1.72  | 0.007 | 0.14  | 0.2   | 0.03  | 2.3   | 0.1   | <0.05 | 5     | <0.5  |
| REP JPR 88315   | QC                               | 0.043 | 15    | 22    | 0.55  | 131   | 0.086 | <1    | 1.72  | 0.007 | 0.14  | 0.3   | 0.02  | 2.3   | 0.1   | <0.05 | 5     | <0.5  |
| JPR 88329       | Soil                             | 0.078 | 30    | 13    | 0.97  | 138   | 0.203 | <1    | 2.04  | 0.008 | 0.90  | 0.1   | 0.02  | 3.0   | 0.4   | <0.05 | 10    | <0.5  |
| REP JPR 88329   | QC                               | 0.079 | 30    | 13    | 0.96  | 137   | 0.202 | <1    | 2.06  | 0.007 | 0.93  | 0.1   | 0.01  | 3.1   | 0.4   | <0.05 | 10    | <0.5  |



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Project: JPR  
Report Date: December 14, 2009

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## QUALITY CONTROL REPORT

VAN09005585.1

|                     |          | WGHT | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---------------------|----------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                     |          | Wgt  | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    |
|                     |          | kg   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     |
|                     |          | 0.01 | 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  |
| JPR 88414           | Soil     |      | 2.1   | 21.1  | 7.6   | 61    | 0.1   | 16.6  | 9.7   | 366   | 2.86  | 6.5   | 0.8   | 3.3   | 4.2   | 20    | 0.2   | 0.2   | 0.2   | 69    | 0.30  |
| REP JPR 88414       | QC       |      | 2.2   | 22.1  | 7.8   | 63    | 0.1   | 16.5  | 10.2  | 386   | 2.94  | 6.9   | 0.8   | 1.5   | 4.2   | 20    | 0.2   | 0.3   | 0.2   | 69    | 0.30  |
| JPR 88444           | Soil     |      | 0.7   | 13.3  | 2.3   | 135   | <0.1  | 7.5   | 16.5  | 1026  | 6.14  | 0.8   | 0.5   | 1.1   | 7.0   | 17    | <0.1  | <0.1  | <0.1  | 95    | 0.48  |
| REP JPR 88444       | QC       |      | 0.6   | 12.8  | 2.3   | 132   | <0.1  | 7.3   | 16.2  | 1006  | 6.37  | 0.8   | 0.5   | <0.5  | 7.2   | 16    | <0.1  | <0.1  | <0.1  | 97    | 0.49  |
| JPR 88483           | Soil     |      | 0.5   | 18.5  | 6.3   | 80    | <0.1  | 8.8   | 10.9  | 703   | 3.32  | 4.0   | 1.2   | 1.1   | 15.8  | 23    | <0.1  | 0.3   | <0.1  | 53    | 0.32  |
| REP JPR 88483       | QC       |      | 0.6   | 18.6  | 6.5   | 84    | <0.1  | 8.8   | 10.2  | 738   | 3.34  | 4.1   | 1.2   | 1.4   | 16.1  | 23    | <0.1  | 0.3   | <0.1  | 57    | 0.31  |
| JPR 88661           | Soil     |      | 0.7   | 15.9  | 9.9   | 74    | <0.1  | 16.3  | 9.6   | 456   | 3.43  | 8.4   | 0.9   | 2.0   | 8.8   | 28    | 0.1   | 0.6   | 0.2   | 64    | 0.22  |
| REP JPR 88661       | QC       |      | 0.7   | 17.1  | 10.1  | 81    | <0.1  | 16.4  | 9.8   | 475   | 3.53  | 8.5   | 0.9   | 3.1   | 8.8   | 28    | <0.1  | 0.6   | 0.2   | 70    | 0.23  |
| JPR 88674           | Soil     |      | 0.4   | 6.3   | 9.5   | 105   | <0.1  | 7.5   | 15.4  | 888   | 4.81  | 3.5   | 0.6   | 1.3   | 12.1  | 25    | <0.1  | 0.1   | <0.1  | 88    | 0.28  |
| REP JPR 88674       | QC       |      | 0.3   | 6.5   | 9.6   | 107   | <0.1  | 7.2   | 15.4  | 899   | 4.93  | 3.2   | 0.6   | 1.1   | 12.7  | 24    | 0.1   | 0.2   | <0.1  | 88    | 0.26  |
| Reference Materials |          |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD DS7             | Standard |      | 21.7  | 113.3 | 69.5  | 409   | 0.8   | 57.1  | 9.3   | 600   | 2.40  | 54.2  | 5.1   | 65.7  | 4.6   | 78    | 6.9   | 6.5   | 4.8   | 80    | 0.96  |
| STD DS7             | Standard |      | 21.2  | 115.0 | 69.0  | 405   | 0.8   | 56.7  | 9.7   | 612   | 2.38  | 53.6  | 5.3   | 76.5  | 4.6   | 82    | 6.7   | 6.5   | 4.8   | 83    | 1.00  |
| STD DS7             | Standard |      | 21.7  | 113.8 | 68.9  | 418   | 0.8   | 58.7  | 9.6   | 632   | 2.51  | 53.5  | 5.1   | 58.2  | 4.7   | 85    | 6.7   | 6.7   | 4.9   | 87    | 1.03  |
| STD DS7             | Standard |      | 21.8  | 116.6 | 70.8  | 419   | 0.8   | 58.2  | 9.3   | 602   | 2.37  | 54.9  | 5.1   | 68.8  | 4.6   | 77    | 7.4   | 6.8   | 5.1   | 82    | 0.99  |
| STD DS7             | Standard |      | 19.0  | 106.3 | 67.7  | 399   | 0.8   | 55.0  | 9.0   | 562   | 2.22  | 49.4  | 4.7   | 76.8  | 4.1   | 64    | 6.1   | 5.9   | 4.5   | 77    | 0.85  |
| STD DS7             | Standard |      | 19.9  | 106.7 | 73.2  | 411   | 0.8   | 57.5  | 8.9   | 608   | 2.44  | 50.5  | 4.8   | 72.2  | 4.7   | 73    | 6.5   | 6.4   | 4.9   | 86    | 0.96  |
| STD DS7             | Standard |      | 18.2  | 102.3 | 69.6  | 386   | 0.8   | 54.9  | 8.7   | 575   | 2.22  | 48.7  | 4.6   | 78.1  | 4.3   | 61    | 5.7   | 5.7   | 4.6   | 82    | 0.86  |
| STD DS7             | Standard |      | 21.3  | 106.4 | 74.5  | 408   | 0.8   | 55.7  | 8.7   | 589   | 2.37  | 54.3  | 5.2   | 80.9  | 4.8   | 76    | 6.5   | 6.5   | 5.2   | 83    | 0.95  |
| STD DS7             | Standard |      | 21.0  | 110.9 | 71.9  | 413   | 0.9   | 55.9  | 9.2   | 587   | 2.29  | 51.4  | 5.3   | 69.2  | 5.1   | 81    | 6.8   | 6.8   | 5.0   | 86    | 0.98  |
| STD DS7             | Standard |      | 22.4  | 116.7 | 79.6  | 418   | 0.9   | 61.6  | 10.2  | 626   | 2.46  | 52.9  | 5.7   | 81.2  | 5.4   | 81    | 6.3   | 6.4   | 5.2   | 88    | 0.97  |
| 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 |





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Project: JPR

Report Date: December 14, 2009

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## QUALITY CONTROL REPORT

VAN09005585.1

|                     |          | 1DX15  | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15  | 1DX15 | 1DX15 | 1DX15  | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---------------------|----------|--------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
|                     |          | P      | 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   |
|                     |          | 0.001  | 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   |
| JPR 88414           | Soil     | 0.076  | 13    | 24    | 0.67  | 219   | 0.092  | <1    | 1.43  | 0.008  | 0.12  | 0.1   | 0.03  | 2.8   | 0.1   | <0.05 | 6     | <0.5  |
| REP JPR 88414       | QC       | 0.080  | 13    | 25    | 0.71  | 219   | 0.093  | 1     | 1.44  | 0.010  | 0.13  | 0.1   | 0.02  | 2.9   | <0.1  | <0.05 | 5     | 0.5   |
| JPR 88444           | Soil     | 0.160  | 17    | 14    | 1.79  | 610   | 0.316  | <1    | 3.51  | 0.010  | 2.03  | <0.1  | <0.01 | 2.1   | 0.6   | <0.05 | 8     | <0.5  |
| REP JPR 88444       | QC       | 0.168  | 17    | 14    | 1.83  | 609   | 0.314  | <1    | 3.43  | 0.010  | 2.14  | 0.1   | <0.01 | 2.0   | 0.6   | <0.05 | 8     | <0.5  |
| JPR 88483           | Soil     | 0.057  | 52    | 13    | 0.95  | 226   | 0.158  | <1    | 2.19  | 0.012  | 0.68  | <0.1  | 0.02  | 3.8   | 0.4   | <0.05 | 7     | <0.5  |
| REP JPR 88483       | QC       | 0.061  | 55    | 13    | 1.02  | 227   | 0.168  | <1    | 2.20  | 0.010  | 0.68  | 0.1   | 0.02  | 3.9   | 0.5   | <0.05 | 6     | <0.5  |
| JPR 88661           | Soil     | 0.035  | 19    | 29    | 0.70  | 173   | 0.104  | <1    | 2.11  | 0.011  | 0.10  | 0.1   | 0.02  | 3.6   | <0.1  | <0.05 | 6     | <0.5  |
| REP JPR 88661       | QC       | 0.035  | 19    | 30    | 0.73  | 181   | 0.099  | <1    | 2.16  | 0.011  | 0.10  | 0.1   | 0.02  | 3.5   | <0.1  | <0.05 | 7     | <0.5  |
| JPR 88674           | Soil     | 0.071  | 11    | 9     | 1.32  | 166   | 0.357  | <1    | 3.55  | 0.012  | 1.05  | <0.1  | <0.01 | 1.7   | 0.7   | <0.05 | 10    | <0.5  |
| REP JPR 88674       | QC       | 0.072  | 12    | 9     | 1.33  | 162   | 0.352  | <1    | 3.61  | 0.012  | 1.07  | <0.1  | <0.01 | 1.8   | 0.7   | <0.05 | 10    | <0.5  |
| Reference Materials |          |        |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |
| STD DS7             | Standard | 0.084  | 13    | 194   | 1.02  | 399   | 0.137  | 44    | 1.03  | 0.095  | 0.41  | 4.1   | 0.20  | 2.4   | 4.2   | 0.20  | 5     | 4.0   |
| STD DS7             | Standard | 0.084  | 14    | 195   | 1.04  | 402   | 0.141  | 40    | 1.06  | 0.102  | 0.43  | 4.0   | 0.19  | 2.5   | 4.2   | 0.19  | 5     | 4.0   |
| STD DS7             | Standard | 0.083  | 14    | 201   | 1.05  | 401   | 0.148  | 41    | 1.10  | 0.104  | 0.45  | 4.1   | 0.19  | 2.7   | 4.2   | 0.23  | 5     | 3.5   |
| STD DS7             | Standard | 0.080  | 12    | 197   | 1.01  | 412   | 0.135  | 39    | 1.01  | 0.093  | 0.43  | 4.3   | 0.20  | 2.6   | 4.2   | 0.18  | 4     | 3.6   |
| STD DS7             | Standard | 0.079  | 11    | 187   | 0.92  | 344   | 0.104  | 39    | 0.87  | 0.078  | 0.39  | 3.8   | 0.18  | 2.0   | 4.0   | 0.19  | 4     | 3.5   |
| STD DS7             | Standard | 0.077  | 13    | 193   | 1.03  | 391   | 0.117  | 41    | 0.92  | 0.086  | 0.44  | 4.1   | 0.18  | 2.2   | 4.2   | 0.20  | 4     | 3.8   |
| STD DS7             | Standard | 0.076  | 10    | 173   | 0.95  | 324   | 0.104  | 37    | 0.88  | 0.080  | 0.39  | 3.8   | 0.18  | 2.0   | 4.0   | 0.19  | 4     | 3.6   |
| STD DS7             | Standard | 0.081  | 13    | 193   | 1.05  | 393   | 0.127  | 41    | 0.98  | 0.093  | 0.44  | 4.1   | 0.22  | 2.4   | 4.5   | 0.21  | 5     | 3.8   |
| STD DS7             | Standard | 0.079  | 15    | 192   | 1.01  | 408   | 0.146  | 39    | 1.03  | 0.097  | 0.41  | 4.1   | 0.22  | 2.7   | 4.3   | 0.22  | 5     | 4.0   |
| STD DS7             | Standard | 0.078  | 15    | 207   | 1.00  | 404   | 0.149  | 39    | 0.98  | 0.095  | 0.41  | 4.2   | 0.20  | 2.6   | 4.5   | 0.18  | 4     | 3.2   |
| STD DS7 Expected    |          | 0.08   | 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    | <0.001 | <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    | <0.001 | <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    | <0.001 | <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    | <0.001 | <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    | <0.001 | <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    | <0.001 | <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  |



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Project: JPR

Report Date: December 14, 2009

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## QUALITY CONTROL REPORT

VAN09005585.1

|     |       | WGHT | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|     |       | Wgt  | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    |
|     |       | kg   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     |
|     |       | 0.01 | 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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**Project:** JPR

**Report Date:** December 14, 2009

**Page:** 3 of 3 **Part** 2

## QUALITY CONTROL REPORT

VAN09005585.1

|     |       | 1DX15  | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15  | 1DX15 | 1DX15 | 1DX15  | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |      |
|-----|-------|--------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|------|
|     |       | P      | 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  |
|     |       | 0.001  | 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 | <0.001 | <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 | <0.001 | <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 | <0.001 | <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 |