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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 03, 2009  
Page: 1 of 11

## CERTIFICATE OF ANALYSIS

VAN09005577.1

### CLIENT JOB INFORMATION

Project: JPR  
Shipment ID: JPR 1  
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 |
| 1DX15       | 300               | 1:1:1 Aqua Regia digestion ICP-MS analysis | 15           | Completed     | VAN |

### ADDITIONAL COMMENTS



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



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Page: 2 of 11 Part 1

## CERTIFICATE OF ANALYSIS

VAN09005577.1

|           | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|           |                                  | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P     |
|           |                                  | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %     |
|           |                                  | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 0.1   | 2     | 0.01  |
| JPR 79606 | Soil                             | 1.6   | 60.6  | 157.7 | 99    | 0.4   | 41.5  | 23.3  | 1150  | 5.22  | 48.5  | 1.1   | 170.7 | 8.4   | 23    | 0.5   | 0.6   | 0.3   | 43    | 2.32  | 0.069 |
| JPR 79607 | Soil                             | 0.9   | 29.3  | 48.2  | 70    | <0.1  | 24.3  | 19.1  | 505   | 4.02  | 9.9   | 0.5   | 2.8   | 3.6   | 23    | 0.2   | 0.4   | 0.2   | 80    | 0.19  | 0.025 |
| JPR 79608 | Soil                             | 0.6   | 37.1  | 119.7 | 117   | <0.1  | 26.3  | 24.0  | 835   | 5.51  | 16.0  | 0.6   | 41.3  | 4.9   | 25    | 0.2   | 0.3   | <0.1  | 68    | 0.40  | 0.101 |
| JPR 79609 | Soil                             | 0.6   | 25.4  | 7.4   | 83    | <0.1  | 18.5  | 17.7  | 633   | 4.17  | 5.0   | 0.6   | 1.7   | 5.1   | 43    | <0.1  | 0.4   | <0.1  | 55    | 0.32  | 0.035 |
| JPR 79610 | Soil                             | 0.6   | 38.1  | 5.3   | 100   | <0.1  | 26.4  | 24.5  | 669   | 5.54  | 5.3   | 0.4   | 2.9   | 3.2   | 19    | <0.1  | 0.3   | <0.1  | 74    | 0.28  | 0.049 |
| JPR 79611 | Soil                             | 0.6   | 43.0  | 5.5   | 100   | <0.1  | 24.1  | 22.7  | 725   | 5.01  | 4.5   | 0.7   | 2.1   | 4.8   | 21    | <0.1  | 0.3   | <0.1  | 67    | 0.25  | 0.063 |
| JPR 79612 | Soil                             | 0.8   | 37.9  | 9.6   | 101   | <0.1  | 24.6  | 21.6  | 634   | 4.68  | 9.7   | 0.6   | 1.7   | 4.7   | 30    | <0.1  | 0.4   | <0.1  | 62    | 0.30  | 0.062 |
| JPR 79613 | Soil                             | 0.9   | 50.1  | 7.3   | 81    | <0.1  | 23.5  | 16.9  | 584   | 4.11  | 6.5   | 0.9   | 2.5   | 5.0   | 25    | <0.1  | 0.5   | 0.3   | 73    | 0.29  | 0.037 |
| JPR 79614 | Soil                             | 1.0   | 37.7  | 11.7  | 78    | <0.1  | 29.7  | 19.0  | 652   | 4.38  | 7.3   | 1.0   | 4.2   | 8.1   | 46    | <0.1  | 0.6   | 0.2   | 84    | 0.32  | 0.041 |
| JPR 79615 | Soil                             | 0.4   | 37.8  | 3.6   | 123   | <0.1  | 28.5  | 34.5  | 1153  | 6.87  | 1.5   | 0.7   | 1.5   | 8.5   | 44    | <0.1  | 0.2   | <0.1  | 87    | 0.51  | 0.104 |
| JPR 79616 | Soil                             | 0.7   | 30.6  | 8.7   | 76    | <0.1  | 27.4  | 14.4  | 541   | 3.59  | 7.1   | 0.9   | 3.3   | 4.8   | 25    | 0.1   | 0.4   | 0.1   | 67    | 0.31  | 0.053 |
| JPR 79617 | Soil                             | 0.7   | 32.9  | 7.3   | 87    | <0.1  | 26.1  | 20.0  | 714   | 4.12  | 6.3   | 0.8   | 2.2   | 4.9   | 29    | 0.2   | 0.4   | 0.1   | 70    | 0.30  | 0.062 |
| JPR 80181 | Soil                             | 1.6   | 14.8  | 9.6   | 82    | <0.1  | 10.6  | 15.9  | 1187  | 3.60  | 3.7   | 1.0   | 2.3   | 15.4  | 13    | 0.1   | 0.3   | 0.1   | 46    | 0.19  | 0.065 |
| JPR 80182 | Soil                             | 1.7   | 23.6  | 5.6   | 92    | <0.1  | 8.6   | 14.7  | 1023  | 4.33  | 3.3   | 1.0   | 1.4   | 10.2  | 16    | 0.1   | 0.2   | <0.1  | 66    | 0.21  | 0.081 |
| JPR 80183 | Soil                             | 1.6   | 44.8  | 2.4   | 289   | <0.1  | 11.1  | 16.4  | 1007  | 4.97  | 2.9   | 1.8   | 1.3   | 16.3  | 9     | 0.3   | 0.2   | <0.1  | 86    | 0.14  | 0.051 |
| JPR 80184 | Soil                             | 0.8   | 17.9  | 6.0   | 106   | <0.1  | 6.4   | 15.7  | 1003  | 4.77  | 1.6   | 1.1   | 2.6   | 17.5  | 19    | <0.1  | 0.2   | <0.1  | 83    | 0.31  | 0.060 |
| JPR 80185 | Soil                             | 0.9   | 31.4  | 8.3   | 77    | <0.1  | 15.3  | 11.7  | 724   | 3.81  | 5.8   | 1.3   | 3.2   | 13.6  | 22    | <0.1  | 0.4   | 0.1   | 67    | 0.29  | 0.058 |
| JPR 80186 | Soil                             | 0.7   | 63.7  | 5.3   | 111   | <0.1  | 8.1   | 25.6  | 1425  | 6.56  | 1.0   | 1.0   | 5.5   | 4.6   | 23    | <0.1  | 0.2   | <0.1  | 135   | 0.45  | 0.101 |
| JPR 80187 | Soil                             | 0.7   | 68.7  | 5.7   | 109   | <0.1  | 6.7   | 24.9  | 1406  | 6.59  | 0.9   | 1.0   | 7.7   | 4.5   | 23    | <0.1  | 0.1   | <0.1  | 133   | 0.47  | 0.095 |
| JPR 80188 | Soil                             | 3.2   | 12.7  | 6.8   | 148   | <0.1  | 3.1   | 21.7  | 1402  | 5.11  | 1.1   | 0.8   | 1.4   | 10.6  | 19    | <0.1  | 0.1   | 0.2   | 125   | 0.39  | 0.075 |
| JPR 80189 | Soil                             | 5.5   | 41.6  | 10.3  | 127   | 0.2   | 8.5   | 19.4  | 1417  | 5.67  | 4.8   | 2.2   | 10.5  | 20.8  | 21    | 0.1   | 0.4   | 0.5   | 80    | 0.31  | 0.063 |
| JPR 80190 | Soil                             | 3.4   | 40.5  | 5.2   | 82    | 1.0   | 22.0  | 34.6  | 1151  | 6.12  | 1.1   | 1.2   | 49.0  | 8.0   | 42    | <0.1  | 0.2   | 0.2   | 97    | 0.37  | 0.075 |
| JPR 80191 | Soil                             | 2.9   | 66.5  | 4.0   | 69    | <0.1  | 17.4  | 28.8  | 869   | 4.78  | 2.5   | 0.6   | 1.4   | 6.7   | 18    | <0.1  | 0.1   | 0.1   | 94    | 0.33  | 0.065 |
| JPR 80192 | Soil                             | 1.5   | 47.5  | 9.4   | 89    | <0.1  | 18.6  | 26.3  | 1010  | 5.64  | 1.4   | 0.9   | 8.5   | 9.8   | 17    | <0.1  | 0.2   | 0.2   | 115   | 0.32  | 0.060 |
| JPR 80448 | Soil                             | 3.6   | 77.0  | 10.9  | 123   | 0.2   | 22.4  | 27.2  | 1146  | 6.18  | 2.4   | 1.0   | 7.9   | 15.4  | 14    | <0.1  | 0.3   | 0.3   | 95    | 0.46  | 0.068 |
| JPR 80449 | Soil                             | 1.3   | 14.0  | 7.4   | 81    | <0.1  | 9.8   | 15.9  | 844   | 4.14  | 4.7   | 0.9   | 0.5   | 11.6  | 18    | <0.1  | 0.4   | 0.5   | 68    | 0.34  | 0.047 |
| JPR 80450 | Soil                             | 1.4   | 28.0  | 5.4   | 76    | 0.1   | 11.7  | 15.7  | 938   | 4.02  | 3.7   | 0.4   | <0.5  | 4.9   | 19    | <0.1  | 0.3   | <0.1  | 79    | 0.28  | 0.044 |
| JPR 80488 | Soil                             | 2.7   | 26.7  | 7.6   | 80    | <0.1  | 8.1   | 9.2   | 564   | 4.05  | 4.7   | 1.1   | 1.2   | 18.3  | 12    | <0.1  | 0.3   | 0.2   | 53    | 0.12  | 0.028 |
| JPR 80489 | Soil                             | 1.5   | 15.2  | 14.1  | 60    | 0.1   | 11.5  | 9.5   | 507   | 2.84  | 5.9   | 0.9   | 11.1  | 11.5  | 15    | <0.1  | 0.4   | 0.2   | 46    | 0.18  | 0.025 |
| JPR 80490 | Soil                             | 3.3   | 14.2  | 10.3  | 71    | <0.1  | 6.2   | 9.5   | 641   | 3.37  | 4.0   | 1.3   | 2.1   | 20.4  | 16    | <0.1  | 0.2   | <0.1  | 45    | 0.22  | 0.050 |



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**Project:** JPR  
**Report Date:** December 03, 2009

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

## CERTIFICATE OF ANALYSIS

VAN09005577.1

|           | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|           |                                  | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |
|           |                                  | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |
|           |                                  | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |
| JPR 79606 | Soil                             | 63    | 37    | 0.52  | 207   | 0.039 | 2     | 1.28  | 0.011 | 0.27  | <0.1  | 0.11  | 5.0   | 0.2   | <0.05 | 5     | <0.5  |
| JPR 79607 | Soil                             | 11    | 40    | 1.11  | 189   | 0.149 | 1     | 2.99  | 0.012 | 0.17  | 0.1   | 0.02  | 3.2   | 0.1   | <0.05 | 7     | <0.5  |
| JPR 79608 | Soil                             | 14    | 40    | 1.77  | 381   | 0.263 | 1     | 3.38  | 0.014 | 1.19  | 0.1   | <0.01 | 2.5   | 0.5   | <0.05 | 8     | <0.5  |
| JPR 79609 | Soil                             | 17    | 30    | 1.17  | 216   | 0.061 | <1    | 2.72  | 0.010 | 0.09  | <0.1  | 0.01  | 3.6   | <0.1  | <0.05 | 8     | <0.5  |
| JPR 79610 | Soil                             | 9     | 39    | 1.75  | 282   | 0.290 | 1     | 3.74  | 0.015 | 0.65  | <0.1  | <0.01 | 2.4   | 0.3   | <0.05 | 9     | <0.5  |
| JPR 79611 | Soil                             | 14    | 43    | 1.62  | 233   | 0.236 | <1    | 3.31  | 0.010 | 0.78  | 0.1   | 0.01  | 2.8   | 0.4   | <0.05 | 8     | <0.5  |
| JPR 79612 | Soil                             | 13    | 52    | 1.24  | 181   | 0.131 | 1     | 3.09  | 0.013 | 0.35  | <0.1  | 0.02  | 3.7   | 0.2   | <0.05 | 8     | 0.8   |
| JPR 79613 | Soil                             | 22    | 32    | 1.12  | 325   | 0.168 | 2     | 2.60  | 0.018 | 0.34  | 0.1   | 0.02  | 6.6   | 0.3   | <0.05 | 7     | <0.5  |
| JPR 79614 | Soil                             | 16    | 68    | 1.34  | 154   | 0.053 | 1     | 3.03  | 0.012 | 0.06  | <0.1  | 0.02  | 7.0   | <0.1  | <0.05 | 10    | <0.5  |
| JPR 79615 | Soil                             | 27    | 69    | 2.54  | 327   | 0.310 | <1    | 4.22  | 0.011 | 1.16  | 0.1   | <0.01 | 4.3   | 0.6   | <0.05 | 10    | <0.5  |
| JPR 79616 | Soil                             | 24    | 47    | 1.00  | 282   | 0.120 | 2     | 2.16  | 0.018 | 0.15  | 0.1   | 0.02  | 4.9   | 0.1   | <0.05 | 6     | <0.5  |
| JPR 79617 | Soil                             | 20    | 44    | 1.16  | 268   | 0.146 | <1    | 2.79  | 0.015 | 0.34  | 0.1   | 0.02  | 4.7   | 0.2   | <0.05 | 7     | <0.5  |
| JPR 80181 | Soil                             | 15    | 18    | 0.66  | 169   | 0.108 | <1    | 2.05  | 0.014 | 0.49  | 0.1   | <0.01 | 4.0   | 0.2   | <0.05 | 7     | <0.5  |
| JPR 80182 | Soil                             | 11    | 15    | 1.01  | 181   | 0.195 | 1     | 2.57  | 0.014 | 0.84  | 0.2   | 0.01  | 4.8   | 0.4   | <0.05 | 9     | <0.5  |
| JPR 80183 | Soil                             | 26    | 15    | 1.50  | 256   | 0.219 | <1    | 3.08  | 0.015 | 1.11  | <0.1  | <0.01 | 10.8  | 0.3   | <0.05 | 11    | <0.5  |
| JPR 80184 | Soil                             | 36    | 8     | 1.36  | 273   | 0.155 | <1    | 2.73  | 0.010 | 1.09  | <0.1  | <0.01 | 7.9   | 0.4   | <0.05 | 8     | <0.5  |
| JPR 80185 | Soil                             | 29    | 25    | 0.82  | 237   | 0.123 | 1     | 2.18  | 0.014 | 0.43  | 0.1   | 0.01  | 6.6   | 0.2   | <0.05 | 7     | <0.5  |
| JPR 80186 | Soil                             | 23    | 17    | 1.81  | 585   | 0.210 | 1     | 3.09  | 0.014 | 1.28  | <0.1  | <0.01 | 15.8  | 0.3   | <0.05 | 9     | <0.5  |
| JPR 80187 | Soil                             | 24    | 16    | 1.85  | 583   | 0.212 | 2     | 3.18  | 0.015 | 1.29  | 0.1   | 0.01  | 15.6  | 0.4   | <0.05 | 9     | <0.5  |
| JPR 80188 | Soil                             | 65    | 3     | 1.88  | 256   | 0.230 | 1     | 3.19  | 0.009 | 1.61  | <0.1  | <0.01 | 8.3   | 0.8   | <0.05 | 7     | <0.5  |
| JPR 80189 | Soil                             | 24    | 11    | 1.16  | 218   | 0.114 | 2     | 2.78  | 0.007 | 0.74  | 0.2   | 0.01  | 8.3   | 0.3   | <0.05 | 7     | <0.5  |
| JPR 80190 | Soil                             | 20    | 71    | 2.14  | 600   | 0.149 | <1    | 3.08  | 0.014 | 1.05  | 0.1   | 0.04  | 8.9   | 0.5   | 0.06  | 8     | 0.6   |
| JPR 80191 | Soil                             | 11    | 51    | 2.05  | 505   | 0.192 | 1     | 2.81  | 0.008 | 1.24  | <0.1  | <0.01 | 6.2   | 0.5   | <0.05 | 6     | <0.5  |
| JPR 80192 | Soil                             | 40    | 55    | 2.13  | 515   | 0.201 | 1     | 3.00  | 0.010 | 1.33  | 0.1   | 0.02  | 12.1  | 0.4   | <0.05 | 7     | <0.5  |
| JPR 80448 | Soil                             | 45    | 56    | 2.15  | 173   | 0.050 | 1     | 2.92  | 0.007 | 0.14  | <0.1  | 0.02  | 21.0  | <0.1  | <0.05 | 8     | <0.5  |
| JPR 80449 | Soil                             | 7     | 17    | 1.05  | 154   | 0.079 | <1    | 2.47  | 0.008 | 0.54  | 0.2   | <0.01 | 4.6   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 80450 | Soil                             | 7     | 18    | 1.16  | 249   | 0.162 | <1    | 2.75  | 0.008 | 0.54  | 0.2   | <0.01 | 2.6   | 0.2   | <0.05 | 7     | <0.5  |
| JPR 80488 | Soil                             | 17    | 17    | 0.73  | 150   | 0.127 | <1    | 2.19  | 0.009 | 0.69  | 0.2   | <0.01 | 4.6   | 0.3   | <0.05 | 7     | <0.5  |
| JPR 80489 | Soil                             | 23    | 22    | 0.47  | 176   | 0.084 | <1    | 1.49  | 0.011 | 0.30  | 0.1   | 0.01  | 3.7   | 0.2   | <0.05 | 5     | <0.5  |
| JPR 80490 | Soil                             | 23    | 11    | 0.69  | 129   | 0.120 | <1    | 1.96  | 0.008 | 0.77  | 0.1   | <0.01 | 3.8   | 0.4   | <0.05 | 6     | <0.5  |



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Report Date: December 03, 2009

Page: 3 of 11 Part 1

## CERTIFICATE OF ANALYSIS

VAN09005577.1

|           |      | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |      |
|-----------|------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|           |      |                                  | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P    |
|           |      |                                  | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %    |
|           |      |                                  | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 0.1   | 2     | 0.01 |
| JPR 80491 | Soil | 1.9                              | 18.6  | 7.5   | 81    | <0.1  | 8.1   | 14.4  | 804   | 4.51  | 3.2   | 1.0   | 2.9   | 18.9  | 21    | <0.1  | 0.2   | <0.1  | 72    | 0.29  | 0.038 |      |
| JPR 80492 | Soil | 2.4                              | 16.0  | 18.7  | 71    | <0.1  | 8.4   | 11.7  | 732   | 3.80  | 3.4   | 1.1   | 11.8  | 18.0  | 15    | 0.1   | 0.3   | 0.1   | 60    | 0.35  | 0.058 |      |
| JPR 80493 | Soil | 2.4                              | 22.8  | 10.6  | 58    | <0.1  | 12.7  | 9.4   | 361   | 2.67  | 6.4   | 0.9   | 14.4  | 5.5   | 19    | 0.3   | 0.5   | 0.1   | 54    | 0.38  | 0.048 |      |
| JPR 80494 | Soil | 2.5                              | 24.8  | 13.2  | 72    | <0.1  | 14.1  | 10.4  | 539   | 3.15  | 5.9   | 1.2   | 14.0  | 14.7  | 20    | 0.1   | 0.5   | 0.2   | 52    | 0.28  | 0.052 |      |
| JPR 80495 | Soil | 1.7                              | 22.9  | 9.3   | 57    | <0.1  | 15.6  | 10.1  | 422   | 2.59  | 7.2   | 1.1   | 6.8   | 7.3   | 22    | <0.1  | 0.5   | 0.2   | 50    | 0.36  | 0.050 |      |
| JPR 80496 | Soil | 8.5                              | 20.4  | 10.6  | 60    | <0.1  | 9.3   | 9.3   | 336   | 2.88  | 4.5   | 1.0   | 6.9   | 14.0  | 16    | <0.1  | 0.4   | 0.2   | 45    | 0.22  | 0.032 |      |
| JPR 80497 | Soil | 3.4                              | 20.3  | 8.6   | 57    | <0.1  | 12.6  | 9.5   | 425   | 2.90  | 5.4   | 1.0   | 172.2 | 9.8   | 14    | <0.1  | 0.4   | 0.2   | 55    | 0.18  | 0.026 |      |
| JPR 80498 | Soil | 3.6                              | 23.8  | 9.5   | 63    | <0.1  | 15.9  | 9.2   | 448   | 3.09  | 7.1   | 1.2   | 1.7   | 13.7  | 21    | <0.1  | 0.5   | 0.2   | 56    | 0.22  | 0.027 |      |
| JPR 80499 | Soil | 2.8                              | 21.0  | 8.9   | 67    | <0.1  | 13.1  | 12.2  | 545   | 3.32  | 5.4   | 1.0   | 3.7   | 16.0  | 17    | <0.1  | 0.4   | 0.1   | 58    | 0.18  | 0.025 |      |
| JPR 80500 | Soil | 1.3                              | 13.0  | 5.2   | 70    | <0.1  | 8.2   | 13.0  | 752   | 4.04  | 3.0   | 0.8   | 1.3   | 17.8  | 22    | <0.1  | 0.3   | <0.1  | 86    | 0.26  | 0.032 |      |
| JPR 80501 | Soil | 2.1                              | 9.2   | 8.0   | 70    | <0.1  | 9.6   | 15.7  | 924   | 3.15  | 5.1   | 0.9   | 2.7   | 14.9  | 11    | 0.1   | 0.2   | 0.1   | 54    | 0.10  | 0.114 |      |
| JPR 80502 | Soil | 1.5                              | 9.3   | 11.8  | 55    | <0.1  | 10.4  | 6.8   | 470   | 2.29  | 5.6   | 0.6   | 2.1   | 10.2  | 14    | 0.1   | 0.3   | 0.1   | 45    | 0.15  | 0.037 |      |
| JPR 80503 | Soil | 1.2                              | 32.5  | 6.3   | 77    | <0.1  | 11.6  | 15.2  | 482   | 3.98  | 4.5   | 0.3   | <0.5  | 3.4   | 23    | <0.1  | 0.3   | <0.1  | 93    | 0.29  | 0.046 |      |
| JPR 80504 | Soil | 1.9                              | 34.1  | 5.2   | 82    | <0.1  | 13.3  | 18.8  | 674   | 4.48  | 4.1   | 0.5   | <0.5  | 4.6   | 20    | <0.1  | 0.3   | <0.1  | 103   | 0.31  | 0.049 |      |
| JPR 80564 | Soil | 1.1                              | 56.3  | 7.7   | 65    | <0.1  | 43.5  | 18.3  | 371   | 4.34  | 8.0   | 0.6   | 1.4   | 6.1   | 23    | <0.1  | 0.5   | <0.1  | 79    | 0.28  | 0.031 |      |
| JPR 80566 | Soil | 1.2                              | 20.8  | 8.2   | 41    | <0.1  | 18.8  | 9.0   | 206   | 2.62  | 7.2   | 0.3   | 1.1   | 1.8   | 15    | 0.1   | 0.5   | 0.1   | 60    | 0.19  | 0.046 |      |
| JPR 80567 | Soil | 0.8                              | 18.6  | 7.1   | 47    | <0.1  | 18.7  | 9.5   | 231   | 2.57  | 9.2   | 0.5   | 4.5   | 3.9   | 21    | <0.1  | 0.6   | 0.1   | 55    | 0.25  | 0.025 |      |
| JPR 80568 | Soil | 0.8                              | 20.7  | 6.5   | 44    | <0.1  | 19.3  | 9.8   | 229   | 2.66  | 10.0  | 0.5   | 2.9   | 3.1   | 23    | <0.1  | 0.6   | <0.1  | 59    | 0.30  | 0.026 |      |
| JPR 80569 | Soil | 0.9                              | 14.1  | 6.7   | 42    | <0.1  | 13.9  | 7.9   | 334   | 3.17  | 7.4   | 0.4   | 1.1   | 2.4   | 17    | <0.1  | 0.5   | 0.1   | 48    | 0.22  | 0.044 |      |
| JPR 80570 | Soil | 1.0                              | 18.6  | 5.2   | 56    | <0.1  | 12.7  | 9.1   | 388   | 3.06  | 4.9   | 0.4   | 1.2   | 2.8   | 24    | <0.1  | 0.4   | <0.1  | 44    | 0.39  | 0.072 |      |
| JPR 80572 | Soil | 1.1                              | 14.6  | 6.0   | 44    | <0.1  | 13.0  | 6.7   | 245   | 2.35  | 5.6   | 0.5   | 1.3   | 4.6   | 14    | <0.1  | 0.4   | 0.1   | 42    | 0.17  | 0.020 |      |
| JPR 80573 | Soil | 1.1                              | 17.3  | 5.8   | 43    | <0.1  | 12.4  | 8.0   | 244   | 2.64  | 4.7   | 0.8   | 2.7   | 9.3   | 22    | <0.1  | 0.4   | 0.1   | 36    | 0.30  | 0.030 |      |
| JPR 80574 | Soil | 1.1                              | 21.0  | 8.0   | 48    | <0.1  | 19.2  | 6.9   | 181   | 2.63  | 6.9   | 0.7   | 4.6   | 7.3   | 24    | <0.1  | 0.5   | 0.1   | 51    | 0.28  | 0.031 |      |
| JPR 80575 | Soil | 0.8                              | 22.2  | 8.1   | 47    | <0.1  | 17.6  | 9.8   | 273   | 2.71  | 8.0   | 0.5   | 1.2   | 4.6   | 27    | <0.1  | 0.6   | 0.1   | 55    | 0.33  | 0.028 |      |
| JPR 80576 | Soil | 0.9                              | 18.1  | 5.9   | 49    | <0.1  | 13.8  | 9.0   | 413   | 2.53  | 4.8   | 0.9   | 2.0   | 7.3   | 22    | 0.1   | 0.4   | 0.1   | 44    | 0.33  | 0.040 |      |
| JPR 80577 | Soil | 0.7                              | 16.8  | 4.7   | 101   | <0.1  | 11.0  | 12.7  | 788   | 4.18  | 2.6   | 0.5   | 2.1   | 4.8   | 18    | <0.1  | 0.2   | <0.1  | 79    | 0.47  | 0.109 |      |
| JPR 80578 | Soil | 1.0                              | 26.9  | 9.2   | 61    | <0.1  | 19.9  | 8.8   | 317   | 2.89  | 8.9   | 1.1   | 3.9   | 4.6   | 27    | <0.1  | 0.7   | 0.2   | 59    | 0.36  | 0.045 |      |
| JPR 80580 | Soil | 0.8                              | 30.8  | 9.4   | 62    | 0.1   | 23.4  | 10.5  | 368   | 2.85  | 9.5   | 1.1   | 2.3   | 4.1   | 33    | 0.3   | 0.7   | 0.2   | 55    | 0.47  | 0.052 |      |
| JPR 80581 | Soil | 0.9                              | 22.2  | 7.7   | 72    | <0.1  | 15.5  | 10.7  | 437   | 2.87  | 5.9   | 0.7   | 2.2   | 5.0   | 19    | 0.2   | 0.3   | 0.1   | 57    | 0.37  | 0.067 |      |
| JPR 80582 | Soil | 0.7                              | 26.0  | 9.0   | 65    | <0.1  | 22.3  | 10.8  | 430   | 2.56  | 8.5   | 0.9   | 2.6   | 3.6   | 39    | 0.3   | 0.6   | 0.2   | 51    | 0.65  | 0.067 |      |



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Project: JPR  
Report Date: December 03, 2009

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## CERTIFICATE OF ANALYSIS

VAN09005577.1

|           | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|           |                                  | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |
|           |                                  | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |
|           |                                  | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |
| JPR 80491 | Soil                             | 53    | 12    | 1.26  | 219   | 0.222 | <1    | 2.77  | 0.009 | 1.07  | 0.1   | 0.01  | 4.6   | 0.6   | <0.05 | 8     | 0.6   |
| JPR 80492 | Soil                             | 35    | 12    | 0.81  | 186   | 0.141 | <1    | 1.96  | 0.009 | 0.83  | 0.1   | 0.03  | 6.5   | 0.4   | <0.05 | 7     | <0.5  |
| JPR 80493 | Soil                             | 12    | 22    | 0.56  | 151   | 0.094 | <1    | 1.49  | 0.013 | 0.16  | 0.2   | 0.02  | 3.7   | 0.1   | <0.05 | 4     | 0.5   |
| JPR 80494 | Soil                             | 35    | 20    | 0.61  | 211   | 0.110 | <1    | 1.56  | 0.010 | 0.36  | 0.2   | 0.03  | 5.0   | 0.2   | <0.05 | 5     | <0.5  |
| JPR 80495 | Soil                             | 22    | 24    | 0.55  | 237   | 0.096 | 1     | 1.43  | 0.014 | 0.12  | 0.2   | 0.04  | 3.8   | <0.1  | <0.05 | 4     | <0.5  |
| JPR 80496 | Soil                             | 17    | 16    | 0.51  | 136   | 0.101 | <1    | 1.50  | 0.009 | 0.35  | 0.2   | <0.01 | 3.4   | 0.3   | <0.05 | 5     | <0.5  |
| JPR 80497 | Soil                             | 26    | 20    | 0.64  | 160   | 0.134 | <1    | 1.60  | 0.009 | 0.31  | 0.2   | 0.01  | 3.4   | 0.2   | <0.05 | 5     | <0.5  |
| JPR 80498 | Soil                             | 32    | 25    | 0.60  | 201   | 0.130 | <1    | 1.77  | 0.010 | 0.33  | 0.2   | 0.03  | 5.1   | 0.2   | <0.05 | 6     | 0.7   |
| JPR 80499 | Soil                             | 25    | 21    | 0.75  | 183   | 0.165 | <1    | 2.07  | 0.009 | 0.61  | 0.1   | <0.01 | 3.6   | 0.3   | <0.05 | 7     | <0.5  |
| JPR 80500 | Soil                             | 30    | 13    | 1.30  | 288   | 0.204 | <1    | 2.67  | 0.009 | 1.03  | 0.2   | <0.01 | 6.6   | 0.4   | <0.05 | 8     | <0.5  |
| JPR 80501 | Soil                             | 6     | 15    | 0.59  | 165   | 0.142 | <1    | 1.70  | 0.012 | 0.56  | 0.1   | <0.01 | 4.0   | 0.4   | <0.05 | 7     | <0.5  |
| JPR 80502 | Soil                             | 13    | 19    | 0.31  | 234   | 0.056 | <1    | 1.43  | 0.009 | 0.15  | 0.2   | <0.01 | 2.2   | 0.2   | <0.05 | 5     | <0.5  |
| JPR 80503 | Soil                             | 5     | 20    | 1.16  | 457   | 0.230 | <1    | 2.33  | 0.013 | 0.88  | 0.2   | <0.01 | 3.0   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 80504 | Soil                             | 8     | 24    | 1.55  | 526   | 0.265 | <1    | 2.68  | 0.009 | 1.23  | 0.1   | <0.01 | 3.9   | 0.3   | <0.05 | 7     | <0.5  |
| JPR 80564 | Soil                             | 15    | 128   | 1.21  | 283   | 0.084 | <1    | 2.58  | 0.010 | 0.15  | 0.1   | 0.02  | 6.2   | <0.1  | <0.05 | 7     | <0.5  |
| JPR 80566 | Soil                             | 6     | 38    | 0.38  | 160   | 0.054 | <1    | 1.54  | 0.012 | 0.05  | 0.2   | <0.01 | 2.6   | <0.1  | <0.05 | 5     | <0.5  |
| JPR 80567 | Soil                             | 9     | 33    | 0.54  | 198   | 0.080 | <1    | 1.56  | 0.013 | 0.07  | 0.1   | <0.01 | 2.9   | <0.1  | <0.05 | 4     | <0.5  |
| JPR 80568 | Soil                             | 7     | 32    | 0.58  | 165   | 0.086 | 1     | 1.67  | 0.013 | 0.10  | 0.1   | <0.01 | 3.2   | <0.1  | <0.05 | 4     | <0.5  |
| JPR 80569 | Soil                             | 7     | 22    | 0.48  | 254   | 0.110 | 1     | 1.63  | 0.012 | 0.24  | <0.1  | <0.01 | 2.8   | <0.1  | <0.05 | 6     | <0.5  |
| JPR 80570 | Soil                             | 10    | 22    | 0.61  | 219   | 0.080 | 1     | 1.56  | 0.018 | 0.10  | <0.1  | 0.01  | 4.2   | <0.1  | <0.05 | 6     | <0.5  |
| JPR 80572 | Soil                             | 12    | 23    | 0.41  | 141   | 0.087 | <1    | 1.40  | 0.011 | 0.07  | 0.1   | 0.01  | 3.0   | <0.1  | <0.05 | 4     | <0.5  |
| JPR 80573 | Soil                             | 12    | 20    | 0.43  | 209   | 0.099 | <1    | 1.53  | 0.010 | 0.22  | 0.1   | <0.01 | 3.4   | 0.2   | <0.05 | 5     | 0.6   |
| JPR 80574 | Soil                             | 26    | 30    | 0.49  | 218   | 0.070 | 1     | 1.74  | 0.011 | 0.06  | 0.2   | 0.03  | 3.9   | <0.1  | <0.05 | 5     | <0.5  |
| JPR 80575 | Soil                             | 14    | 28    | 0.54  | 307   | 0.079 | <1    | 1.65  | 0.015 | 0.07  | 0.1   | <0.01 | 4.2   | <0.1  | <0.05 | 5     | <0.5  |
| JPR 80576 | Soil                             | 22    | 22    | 0.52  | 250   | 0.095 | <1    | 1.33  | 0.016 | 0.14  | 0.2   | 0.02  | 5.2   | <0.1  | <0.05 | 5     | <0.5  |
| JPR 80577 | Soil                             | 16    | 16    | 1.26  | 462   | 0.233 | <1    | 2.35  | 0.010 | 1.06  | 0.2   | 0.01  | 3.5   | 0.4   | <0.05 | 7     | <0.5  |
| JPR 80578 | Soil                             | 18    | 31    | 0.56  | 374   | 0.095 | <1    | 1.55  | 0.017 | 0.06  | 0.2   | 0.03  | 5.1   | <0.1  | <0.05 | 5     | <0.5  |
| JPR 80580 | Soil                             | 14    | 27    | 0.57  | 366   | 0.082 | 1     | 1.59  | 0.020 | 0.05  | 0.2   | 0.03  | 4.0   | <0.1  | <0.05 | 5     | 0.6   |
| JPR 80581 | Soil                             | 11    | 21    | 0.75  | 249   | 0.132 | <1    | 1.57  | 0.011 | 0.34  | 0.2   | 0.01  | 2.4   | 0.1   | <0.05 | 5     | <0.5  |
| JPR 80582 | Soil                             | 13    | 25    | 0.56  | 329   | 0.073 | 1     | 1.43  | 0.022 | 0.06  | 0.2   | 0.03  | 3.3   | <0.1  | <0.05 | 4     | 0.8   |



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JPR

Report Date:

December 03, 2009

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Part 1

## CERTIFICATE OF ANALYSIS

VAN09005577.1

|           | Method | Analyte | Unit | MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|--------|---------|------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|           |        |         |      |     | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    |
|           |        |         |      |     | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   |
|           |        |         |      |     | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 2     |
|           |        |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| JPR 80583 | Soil   |         |      |     | 0.9   | 19.3  | 8.3   | 56    | <0.1  | 17.1  | 8.7   | 378   | 2.32  | 8.2   | 0.8   | 2.7   | 3.6   | 29    | 0.2   | 0.5   | 0.2   |
| JPR 80584 | Soil   |         |      |     | 0.8   | 32.5  | 8.7   | 61    | 0.1   | 25.8  | 10.7  | 463   | 2.56  | 9.9   | 0.8   | 2.7   | 3.8   | 38    | 0.3   | 0.8   | 0.2   |
| JPR 80585 | Soil   |         |      |     | 1.0   | 39.1  | 9.7   | 75    | 0.1   | 27.7  | 10.9  | 505   | 2.62  | 10.3  | 1.2   | 2.8   | 3.4   | 62    | 0.4   | 1.0   | 0.2   |
| JPR 80586 | Soil   |         |      |     | 0.8   | 33.5  | 9.5   | 65    | 0.1   | 27.1  | 11.1  | 488   | 2.54  | 9.5   | 0.7   | 2.1   | 3.7   | 41    | 0.3   | 0.8   | 0.2   |
| JPR 80587 | Soil   |         |      |     | 0.9   | 28.3  | 8.8   | 66    | 0.1   | 25.6  | 11.2  | 400   | 2.55  | 9.9   | 1.3   | 20.8  | 3.7   | 41    | 0.3   | 0.8   | 0.2   |
| JPR 80589 | Soil   |         |      |     | 0.8   | 23.8  | 8.9   | 62    | <0.1  | 22.7  | 9.7   | 305   | 2.53  | 8.5   | 0.8   | 4.2   | 3.1   | 33    | 0.2   | 0.6   | 0.2   |
| JPR 80590 | Soil   |         |      |     | 4.2   | 25.8  | 7.7   | 37    | <0.1  | 14.4  | 6.4   | 234   | 2.39  | 7.0   | 1.2   | 2.4   | 11.0  | 18    | <0.1  | 0.6   | 0.2   |
| JPR 80591 | Soil   |         |      |     | 2.6   | 40.1  | 9.4   | 51    | <0.1  | 26.3  | 9.7   | 422   | 2.83  | 9.9   | 1.6   | 3.9   | 10.2  | 26    | <0.1  | 0.7   | 0.2   |
| JPR 80758 | Soil   |         |      |     | 4.0   | 29.8  | 8.0   | 52    | <0.1  | 13.4  | 9.5   | 617   | 2.73  | 4.8   | 1.7   | 4.9   | 13.6  | 16    | 0.1   | 0.3   | 0.2   |
| JPR 80759 | Soil   |         |      |     | 2.8   | 19.8  | 9.6   | 58    | <0.1  | 14.6  | 9.8   | 548   | 2.71  | 6.2   | 1.0   | 3.6   | 9.8   | 21    | 0.1   | 0.3   | 0.2   |
| JPR 80760 | Soil   |         |      |     | 4.6   | 19.7  | 8.5   | 61    | <0.1  | 12.8  | 10.9  | 552   | 3.08  | 6.0   | 1.0   | 4.4   | 9.6   | 16    | 0.1   | 0.3   | 0.2   |
| JPR 80761 | Soil   |         |      |     | 4.4   | 19.0  | 8.6   | 54    | <0.1  | 11.4  | 8.0   | 322   | 2.93  | 6.3   | 1.0   | 3.4   | 9.6   | 17    | <0.1  | 0.3   | 0.2   |
| JPR 80762 | Soil   |         |      |     | 4.3   | 16.5  | 7.0   | 66    | <0.1  | 7.3   | 4.1   | 475   | 1.83  | 4.4   | 0.8   | 4.3   | 3.0   | 12    | 0.2   | 0.3   | 0.2   |
| JPR 80763 | Soil   |         |      |     | 2.8   | 26.3  | 9.9   | 69    | <0.1  | 11.6  | 7.3   | 298   | 2.84  | 5.4   | 2.7   | 4.1   | 10.5  | 29    | <0.1  | 0.3   | 0.2   |
| JPR 80903 | Soil   |         |      |     | 1.6   | 22.1  | 11.6  | 65    | <0.1  | 18.1  | 10.5  | 454   | 3.56  | 9.4   | 0.9   | 1.8   | 9.2   | 35    | <0.1  | 0.6   | 0.2   |
| JPR 80904 | Soil   |         |      |     | 2.0   | 20.1  | 12.3  | 69    | 0.1   | 17.6  | 10.3  | 486   | 3.61  | 9.1   | 1.0   | 1.4   | 9.4   | 37    | <0.1  | 0.5   | 0.2   |
| JPR 80905 | Soil   |         |      |     | 1.2   | 33.3  | 22.2  | 82    | <0.1  | 23.7  | 12.9  | 601   | 3.82  | 8.1   | 0.8   | 1.6   | 8.8   | 21    | 0.1   | 0.5   | 0.3   |
| JPR 80964 | Soil   |         |      |     | 0.7   | 17.7  | 4.6   | 77    | <0.1  | 13.8  | 14.2  | 789   | 3.97  | 4.0   | 0.8   | 3.3   | 8.8   | 25    | <0.1  | 0.3   | <0.1  |
| JPR 80965 | Soil   |         |      |     | 0.7   | 21.9  | 8.3   | 62    | <0.1  | 16.6  | 11.0  | 460   | 3.06  | 7.8   | 0.8   | 6.0   | 5.9   | 25    | <0.1  | 0.4   | 0.2   |
| JPR 80966 | Soil   |         |      |     | 0.8   | 17.4  | 7.5   | 54    | <0.1  | 14.9  | 9.2   | 329   | 2.66  | 6.9   | 0.8   | 1.7   | 4.5   | 30    | <0.1  | 0.4   | 0.2   |
| JPR 80967 | Soil   |         |      |     | 0.9   | 21.2  | 7.9   | 51    | <0.1  | 17.3  | 8.8   | 311   | 2.61  | 8.7   | 0.9   | 2.5   | 4.3   | 31    | <0.1  | 0.5   | 0.2   |
| JPR 80972 | Soil   |         |      |     | 1.1   | 16.8  | 8.1   | 63    | <0.1  | 14.9  | 11.1  | 444   | 2.87  | 5.8   | 1.1   | 21.7  | 5.5   | 28    | 0.2   | 0.4   | 0.2   |
| JPR 80973 | Soil   |         |      |     | 0.8   | 24.7  | 5.6   | 63    | <0.1  | 18.3  | 13.3  | 496   | 3.48  | 6.8   | 0.7   | 3.8   | 6.1   | 20    | <0.1  | 0.4   | 0.1   |
| JPR 80974 | Soil   |         |      |     | 0.6   | 17.7  | 4.7   | 77    | <0.1  | 12.8  | 15.5  | 727   | 4.16  | 4.6   | 0.6   | 1.1   | 9.4   | 17    | <0.1  | 0.3   | <0.1  |
| JPR 81925 | Soil   |         |      |     | 1.1   | 18.2  | 8.4   | 57    | <0.1  | 18.4  | 10.4  | 356   | 3.36  | 9.8   | 0.9   | 2.1   | 4.1   | 14    | 0.1   | 0.5   | 0.2   |
| JPR 81926 | Soil   |         |      |     | 1.1   | 14.2  | 5.8   | 67    | <0.1  | 14.3  | 10.6  | 452   | 4.04  | 6.7   | 1.0   | 2.2   | 5.0   | 11    | 0.1   | 0.4   | 0.1   |
| JPR 81927 | Soil   |         |      |     | 0.9   | 21.1  | 2.6   | 63    | <0.1  | 21.2  | 12.8  | 734   | 4.66  | 3.9   | 1.3   | 1.1   | 5.1   | 20    | 0.1   | 0.2   | <0.1  |
| JPR 81928 | Soil   |         |      |     | 0.8   | 18.4  | 3.0   | 65    | <0.1  | 21.9  | 12.5  | 670   | 4.30  | 3.7   | 1.2   | 0.8   | 5.0   | 18    | <0.1  | 0.3   | <0.1  |
| JPR 81929 | Soil   |         |      |     | 0.1   | 20.5  | 1.3   | 57    | <0.1  | 31.2  | 12.9  | 485   | 3.27  | <0.5  | 1.3   | 0.7   | 7.4   | 12    | <0.1  | <0.1  | <0.1  |
| JPR 81930 | Soil   |         |      |     | <0.1  | 18.9  | 1.4   | 56    | <0.1  | 29.5  | 12.3  | 527   | 3.24  | 0.5   | 1.2   | 0.6   | 7.1   | 13    | <0.1  | <0.1  | <0.1  |



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**Project:** JPR  
**Report Date:** December 03, 2009

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## CERTIFICATE OF ANALYSIS

VAN09005577.1

|           | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|           |                                  | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |
|           |                                  | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |
|           |                                  | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |
| JPR 80583 | Soil                             | 13    | 22    | 0.47  | 287   | 0.071 | 1     | 1.27  | 0.016 | 0.06  | 0.3   | 0.03  | 2.8   | <0.1  | <0.05 | 4     | <0.5  |
| JPR 80584 | Soil                             | 13    | 28    | 0.53  | 347   | 0.072 | 2     | 1.32  | 0.025 | 0.05  | 0.3   | 0.04  | 3.3   | <0.1  | <0.05 | 4     | <0.5  |
| JPR 80585 | Soil                             | 12    | 28    | 0.74  | 421   | 0.074 | 3     | 1.30  | 0.038 | 0.07  | 0.2   | 0.03  | 3.4   | <0.1  | 0.06  | 4     | 0.8   |
| JPR 80586 | Soil                             | 12    | 27    | 0.63  | 362   | 0.076 | 2     | 1.29  | 0.027 | 0.05  | 0.3   | 0.03  | 3.2   | <0.1  | <0.05 | 4     | 0.5   |
| JPR 80587 | Soil                             | 13    | 27    | 0.55  | 357   | 0.075 | 2     | 1.26  | 0.025 | 0.05  | 0.4   | 0.03  | 3.1   | <0.1  | <0.05 | 4     | 0.7   |
| JPR 80589 | Soil                             | 12    | 29    | 0.53  | 290   | 0.067 | 1     | 1.41  | 0.019 | 0.05  | 0.2   | 0.03  | 3.1   | <0.1  | <0.05 | 4     | <0.5  |
| JPR 80590 | Soil                             | 10    | 24    | 0.39  | 184   | 0.057 | <1    | 1.49  | 0.008 | 0.08  | 0.2   | 0.07  | 3.1   | <0.1  | <0.05 | 4     | <0.5  |
| JPR 80591 | Soil                             | 19    | 35    | 0.51  | 265   | 0.084 | <1    | 1.68  | 0.015 | 0.06  | 0.2   | 0.10  | 5.4   | <0.1  | <0.05 | 5     | <0.5  |
| JPR 80758 | Soil                             | 19    | 21    | 0.53  | 160   | 0.092 | <1    | 1.26  | 0.009 | 0.26  | 0.2   | 0.04  | 4.2   | 0.2   | <0.05 | 4     | <0.5  |
| JPR 80759 | Soil                             | 14    | 25    | 0.50  | 136   | 0.095 | 1     | 1.37  | 0.012 | 0.19  | 0.2   | 0.03  | 4.0   | 0.1   | <0.05 | 5     | <0.5  |
| JPR 80760 | Soil                             | 16    | 20    | 0.51  | 148   | 0.112 | 1     | 1.58  | 0.013 | 0.22  | 0.2   | 0.03  | 3.5   | 0.1   | <0.05 | 6     | 0.7   |
| JPR 80761 | Soil                             | 24    | 21    | 0.51  | 190   | 0.092 | <1    | 1.64  | 0.009 | 0.09  | 0.2   | 0.02  | 3.9   | 0.1   | <0.05 | 5     | <0.5  |
| JPR 80762 | Soil                             | 7     | 13    | 0.17  | 197   | 0.058 | 1     | 0.86  | 0.008 | 0.05  | 0.1   | 0.02  | 1.9   | <0.1  | <0.05 | 5     | <0.5  |
| JPR 80763 | Soil                             | 28    | 22    | 0.56  | 171   | 0.091 | <1    | 1.54  | 0.013 | 0.19  | 0.2   | 0.06  | 5.2   | 0.1   | <0.05 | 5     | <0.5  |
| JPR 80903 | Soil                             | 24    | 28    | 0.67  | 298   | 0.105 | <1    | 2.25  | 0.010 | 0.39  | 0.1   | 0.01  | 5.1   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 80904 | Soil                             | 25    | 26    | 0.68  | 323   | 0.101 | <1    | 2.34  | 0.011 | 0.42  | 0.1   | 0.01  | 5.2   | 0.2   | <0.05 | 7     | <0.5  |
| JPR 80905 | Soil                             | 24    | 34    | 1.02  | 344   | 0.172 | 1     | 2.08  | 0.015 | 0.60  | 0.1   | 0.03  | 6.1   | 0.3   | <0.05 | 6     | <0.5  |
| JPR 80964 | Soil                             | 18    | 16    | 1.28  | 433   | 0.182 | <1    | 2.27  | 0.013 | 1.03  | 0.1   | 0.01  | 4.2   | 0.3   | <0.05 | 6     | <0.5  |
| JPR 80965 | Soil                             | 16    | 26    | 0.68  | 272   | 0.123 | <1    | 1.76  | 0.015 | 0.17  | 0.2   | 0.02  | 3.1   | 0.1   | <0.05 | 5     | <0.5  |
| JPR 80966 | Soil                             | 15    | 22    | 0.63  | 285   | 0.116 | <1    | 1.62  | 0.014 | 0.14  | 0.2   | 0.01  | 2.8   | <0.1  | <0.05 | 5     | 0.6   |
| JPR 80967 | Soil                             | 13    | 27    | 0.53  | 268   | 0.093 | <1    | 1.47  | 0.019 | 0.07  | 0.2   | 0.02  | 3.3   | <0.1  | <0.05 | 5     | 0.5   |
| JPR 80972 | Soil                             | 17    | 23    | 0.72  | 288   | 0.116 | 1     | 1.70  | 0.014 | 0.24  | 0.3   | 0.09  | 3.2   | 0.1   | <0.05 | 5     | 0.6   |
| JPR 80973 | Soil                             | 18    | 25    | 1.08  | 286   | 0.188 | <1    | 2.04  | 0.014 | 0.50  | 0.2   | 0.02  | 3.5   | 0.2   | <0.05 | 5     | <0.5  |
| JPR 80974 | Soil                             | 14    | 18    | 1.23  | 329   | 0.209 | <1    | 2.36  | 0.010 | 1.01  | 0.2   | 0.01  | 3.5   | 0.3   | <0.05 | 6     | <0.5  |
| JPR 81925 | Soil                             | 15    | 28    | 0.64  | 231   | 0.095 | 1     | 2.09  | 0.010 | 0.15  | 0.2   | 0.03  | 4.6   | 0.1   | <0.05 | 6     | <0.5  |
| JPR 81926 | Soil                             | 14    | 20    | 0.90  | 363   | 0.175 | <1    | 2.57  | 0.009 | 0.53  | 0.1   | 0.01  | 7.8   | 0.2   | <0.05 | 8     | <0.5  |
| JPR 81927 | Soil                             | 18    | 63    | 1.44  | 373   | 0.080 | <1    | 2.39  | 0.010 | 0.24  | <0.1  | <0.01 | 9.4   | 0.1   | <0.05 | 10    | <0.5  |
| JPR 81928 | Soil                             | 18    | 60    | 1.43  | 368   | 0.081 | <1    | 2.34  | 0.010 | 0.21  | <0.1  | <0.01 | 9.2   | <0.1  | <0.05 | 10    | <0.5  |
| JPR 81929 | Soil                             | 15    | 109   | 0.99  | 286   | 0.155 | <1    | 1.66  | 0.020 | 0.65  | <0.1  | <0.01 | 5.8   | 0.2   | <0.05 | 7     | 0.5   |
| JPR 81930 | Soil                             | 14    | 113   | 0.98  | 278   | 0.149 | <1    | 1.60  | 0.028 | 0.61  | <0.1  | <0.01 | 5.8   | 0.2   | <0.05 | 6     | <0.5  |



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Project: JPR  
Report Date: December 03, 2009

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## CERTIFICATE OF ANALYSIS

VAN09005577.1

|           |      | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |      |
|-----------|------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|           |      |                                  | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P    |
|           |      |                                  | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %    |
|           |      |                                  | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 0.1   | 2     | 0.01 |
| JPR 81931 | Soil | 0.8                              | 12.0  | 6.6   | 50    | <0.1  | 9.2   | 8.0   | 460   | 3.60  | 6.0   | 0.7   | 1.3   | 3.6   | 12    | <0.1  | 0.3   | 0.1   | 45    | 0.15  | 0.044 |      |
| JPR 81932 | Soil | 0.5                              | 16.9  | 2.8   | 70    | <0.1  | 11.8  | 9.2   | 442   | 3.27  | 2.8   | 1.0   | 1.3   | 4.3   | 9     | <0.1  | 0.2   | <0.1  | 52    | 0.13  | 0.026 |      |
| JPR 81933 | Soil | 0.4                              | 8.2   | 0.8   | 61    | <0.1  | 3.5   | 14.6  | 518   | 3.63  | 1.0   | 1.0   | <0.5  | 2.9   | 12    | <0.1  | <0.1  | <0.1  | 85    | 0.34  | 0.075 |      |
| JPR 81934 | Soil | 0.9                              | 9.3   | 1.0   | 42    | <0.1  | 3.9   | 12.3  | 433   | 3.83  | 1.2   | 1.4   | <0.5  | 6.4   | 9     | <0.1  | 0.1   | <0.1  | 22    | 0.28  | 0.083 |      |
| JPR 81935 | Soil | 1.6                              | 5.3   | 2.1   | 43    | <0.1  | 6.2   | 5.9   | 366   | 2.73  | 2.1   | 0.6   | 0.9   | 5.3   | 3     | <0.1  | 0.2   | 0.1   | 42    | 0.06  | 0.036 |      |
| JPR 82086 | Soil | 1.0                              | 43.5  | 9.3   | 61    | <0.1  | 38.8  | 11.5  | 372   | 2.93  | 10.0  | 1.5   | 4.8   | 4.9   | 17    | <0.1  | 0.6   | 0.2   | 68    | 0.15  | 0.027 |      |
| JPR 82087 | Soil | 3.3                              | 70.5  | 8.4   | 124   | 0.1   | 47.8  | 14.1  | 418   | 3.73  | 6.2   | 2.2   | 2.1   | 4.6   | 27    | 0.3   | 0.4   | 0.2   | 112   | 0.14  | 0.060 |      |
| JPR 82088 | Soil | 1.3                              | 56.8  | 9.3   | 104   | <0.1  | 58.1  | 14.2  | 448   | 3.57  | 12.0  | 1.5   | 2.2   | 5.9   | 21    | 0.2   | 0.6   | 0.2   | 101   | 0.28  | 0.068 |      |
| JPR 82090 | Soil | 2.6                              | 77.0  | 9.2   | 155   | 0.3   | 83.7  | 13.0  | 490   | 4.20  | 7.9   | 2.3   | 2.4   | 4.3   | 24    | 0.3   | 0.5   | 0.2   | 133   | 0.14  | 0.060 |      |
| JPR 82091 | Soil | 1.3                              | 52.6  | 8.9   | 77    | 0.3   | 56.7  | 12.4  | 414   | 3.83  | 7.0   | 1.3   | 3.2   | 2.8   | 30    | 0.3   | 0.4   | 0.2   | 88    | 0.44  | 0.062 |      |
| JPR 82092 | Soil | 0.9                              | 33.2  | 7.7   | 63    | <0.1  | 25.9  | 9.0   | 371   | 2.67  | 6.3   | 1.3   | 3.9   | 3.8   | 27    | <0.1  | 0.4   | 0.2   | 64    | 0.29  | 0.072 |      |
| JPR 82093 | Soil | 0.8                              | 27.2  | 8.4   | 57    | <0.1  | 23.9  | 8.3   | 286   | 2.56  | 7.5   | 0.9   | 2.7   | 2.7   | 24    | <0.1  | 0.4   | 0.2   | 56    | 0.29  | 0.071 |      |
| JPR 82094 | Soil | 0.6                              | 31.1  | 8.0   | 58    | <0.1  | 26.7  | 8.5   | 256   | 2.56  | 7.0   | 0.7   | 2.5   | 2.8   | 25    | 0.1   | 0.5   | 0.1   | 59    | 0.32  | 0.063 |      |
| JPR 82095 | Soil | 0.8                              | 33.6  | 8.6   | 65    | <0.1  | 33.1  | 10.1  | 312   | 2.99  | 8.7   | 0.8   | 2.1   | 4.1   | 26    | <0.1  | 0.5   | 0.2   | 66    | 0.33  | 0.064 |      |
| JPR 82099 | Soil | 0.8                              | 35.2  | 8.8   | 74    | <0.1  | 36.4  | 10.6  | 353   | 3.27  | 8.6   | 0.8   | 2.8   | 4.1   | 28    | <0.1  | 0.5   | 0.2   | 68    | 0.40  | 0.080 |      |
| JPR 82100 | Soil | 1.3                              | 60.8  | 9.9   | 112   | <0.1  | 61.4  | 15.1  | 469   | 3.68  | 12.1  | 1.6   | 2.5   | 6.2   | 24    | 0.2   | 0.6   | 0.2   | 108   | 0.28  | 0.066 |      |
| JPR 82238 | Soil | 1.8                              | 112.1 | 5.7   | 87    | <0.1  | 65.3  | 19.1  | 903   | 4.88  | 2.2   | 1.4   | 29.1  | 8.9   | 24    | <0.1  | 0.2   | 2.3   | 107   | 0.62  | 0.232 |      |
| JPR 82239 | Soil | 1.8                              | 112.0 | 5.7   | 83    | <0.1  | 64.2  | 18.7  | 916   | 4.81  | 1.6   | 1.4   | 13.2  | 9.2   | 25    | <0.1  | 0.1   | 2.3   | 110   | 0.63  | 0.240 |      |
| JPR 82240 | Soil | 2.7                              | 130.0 | 9.7   | 97    | <0.1  | 83.1  | 18.8  | 1328  | 4.74  | 6.3   | 1.2   | 17.6  | 5.4   | 9     | 0.2   | 0.6   | <0.1  | 126   | 0.12  | 0.045 |      |
| JPR 82241 | Soil | 2.5                              | 119.7 | 6.8   | 83    | <0.1  | 98.8  | 24.2  | 1159  | 4.83  | 4.4   | 1.0   | 19.6  | 6.1   | 9     | <0.1  | 0.3   | <0.1  | 175   | 0.14  | 0.045 |      |
| JPR 82242 | Soil | 0.5                              | 108.7 | 1.8   | 69    | <0.1  | 394.3 | 37.1  | 1149  | 4.84  | 0.6   | 0.4   | 2.3   | 2.3   | 30    | <0.1  | <0.1  | <0.1  | 150   | 0.74  | 0.172 |      |
| JPR 82243 | Soil | 3.8                              | 154.6 | 5.5   | 122   | <0.1  | 120.5 | 21.2  | 656   | 4.30  | 3.9   | 0.7   | 1.5   | 3.7   | 13    | 0.1   | 0.3   | 0.1   | 192   | 0.25  | 0.084 |      |
| JPR 82244 | Soil | 3.2                              | 57.7  | 5.8   | 90    | <0.1  | 70.9  | 15.7  | 693   | 4.12  | 62.9  | 0.7   | 1.5   | 3.1   | 10    | 0.2   | 2.7   | 0.1   | 65    | 0.07  | 0.058 |      |
| JPR 82245 | Soil | 2.6                              | 95.4  | 3.4   | 99    | <0.1  | 75.8  | 20.7  | 244   | 4.56  | 1.9   | 0.9   | <0.5  | 5.4   | 26    | 0.2   | 0.1   | <0.1  | 197   | 0.14  | 0.096 |      |
| JPR 82246 | Soil | 2.6                              | 116.7 | 3.2   | 117   | <0.1  | 236.3 | 33.5  | 615   | 5.10  | 0.5   | 0.6   | 6.2   | 2.3   | 33    | 0.2   | <0.1  | <0.1  | 199   | 0.51  | 0.161 |      |
| JPR 82247 | Soil | 2.1                              | 81.1  | 5.8   | 108   | <0.1  | 99.3  | 15.6  | 612   | 3.42  | 1.4   | 0.8   | 1.5   | 4.1   | 11    | 0.3   | 0.1   | <0.1  | 118   | 0.22  | 0.087 |      |
| JPR 82248 | Soil | 2.5                              | 102.4 | 5.1   | 121   | <0.1  | 84.2  | 18.9  | 664   | 5.10  | 5.0   | 1.1   | 1.0   | 9.1   | 12    | <0.1  | 0.3   | <0.1  | 226   | 0.17  | 0.118 |      |
| JPR 82249 | Soil | 4.2                              | 170.8 | 8.4   | 122   | 0.2   | 154.0 | 35.7  | 2118  | 5.58  | <0.5  | 1.2   | 3.0   | 3.9   | 23    | 0.3   | 0.2   | 0.1   | 172   | 0.48  | 0.132 |      |
| JPR 82361 | Soil | 2.5                              | 27.4  | 5.7   | 79    | <0.1  | 8.9   | 19.2  | 888   | 5.05  | 2.3   | 1.3   | 3.0   | 12.1  | 21    | <0.1  | 0.2   | <0.1  | 109   | 0.30  | 0.029 |      |
| JPR 82635 | Soil | 0.8                              | 30.1  | 9.6   | 65    | <0.1  | 24.9  | 12.7  | 496   | 3.37  | 9.2   | 0.9   | 4.6   | 4.7   | 28    | <0.1  | 0.6   | 0.2   | 69    | 0.34  | 0.042 |      |





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**Project:** JPR  
**Report Date:** December 03, 2009

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## CERTIFICATE OF ANALYSIS

VAN09005577.1

|           | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|           |                                  | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |
|           |                                  | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |
|           |                                  | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |
| JPR 81931 | Soil                             | 11    | 16    | 0.52  | 250   | 0.134 | <1    | 1.95  | 0.007 | 0.32  | 0.1   | 0.02  | 4.6   | 0.2   | <0.05 | 8     | 0.5   |
| JPR 81932 | Soil                             | 16    | 28    | 1.25  | 365   | 0.134 | <1    | 2.08  | 0.012 | 0.66  | <0.1  | <0.01 | 8.6   | 0.2   | <0.05 | 8     | <0.5  |
| JPR 81933 | Soil                             | 27    | 14    | 1.70  | 553   | 0.170 | <1    | 2.22  | 0.019 | 0.93  | <0.1  | <0.01 | 6.7   | 0.3   | <0.05 | 8     | 0.5   |
| JPR 81934 | Soil                             | 15    | 7     | 0.83  | 317   | 0.124 | <1    | 1.58  | 0.014 | 0.61  | <0.1  | <0.01 | 7.5   | 0.2   | <0.05 | 7     | 0.5   |
| JPR 81935 | Soil                             | 6     | 23    | 1.04  | 190   | 0.149 | <1    | 1.49  | 0.011 | 0.43  | 0.1   | <0.01 | 6.2   | 0.1   | <0.05 | 10    | <0.5  |
| JPR 82086 | Soil                             | 17    | 54    | 0.67  | 362   | 0.099 | 1     | 1.96  | 0.013 | 0.07  | 0.2   | 0.03  | 4.8   | 0.1   | <0.05 | 6     | 0.5   |
| JPR 82087 | Soil                             | 18    | 75    | 0.90  | 571   | 0.122 | <1    | 2.21  | 0.018 | 0.30  | 0.1   | 0.02  | 4.8   | 0.3   | 0.14  | 6     | 1.6   |
| JPR 82088 | Soil                             | 19    | 73    | 0.92  | 838   | 0.132 | <1    | 2.05  | 0.010 | 0.33  | 0.1   | 0.02  | 6.8   | 0.2   | <0.05 | 7     | 1.2   |
| JPR 82090 | Soil                             | 17    | 138   | 1.27  | 765   | 0.150 | 1     | 2.37  | 0.016 | 0.28  | 0.1   | 0.02  | 6.1   | 0.3   | 0.08  | 8     | 1.5   |
| JPR 82091 | Soil                             | 14    | 75    | 0.90  | 786   | 0.101 | 2     | 2.32  | 0.011 | 0.17  | 0.1   | 0.06  | 5.4   | 0.2   | <0.05 | 8     | 1.4   |
| JPR 82092 | Soil                             | 14    | 39    | 0.47  | 281   | 0.070 | 1     | 1.34  | 0.009 | 0.10  | 0.2   | 0.04  | 4.8   | 0.1   | <0.05 | 5     | 0.7   |
| JPR 82093 | Soil                             | 14    | 36    | 0.46  | 282   | 0.064 | <1    | 1.54  | 0.011 | 0.04  | 0.1   | 0.03  | 4.1   | 0.1   | <0.05 | 5     | <0.5  |
| JPR 82094 | Soil                             | 14    | 39    | 0.47  | 254   | 0.079 | <1    | 1.46  | 0.011 | 0.05  | 0.2   | 0.04  | 4.4   | <0.1  | <0.05 | 5     | 0.6   |
| JPR 82095 | Soil                             | 14    | 47    | 0.57  | 281   | 0.082 | 2     | 1.83  | 0.015 | 0.07  | 0.2   | 0.03  | 5.9   | <0.1  | <0.05 | 6     | <0.5  |
| JPR 82099 | Soil                             | 14    | 49    | 0.57  | 309   | 0.077 | 1     | 1.78  | 0.013 | 0.07  | 0.2   | 0.04  | 6.0   | 0.1   | <0.05 | 5     | 0.7   |
| JPR 82100 | Soil                             | 19    | 79    | 0.94  | 902   | 0.140 | <1    | 2.17  | 0.010 | 0.31  | 0.1   | 0.02  | 6.9   | 0.2   | <0.05 | 7     | 0.9   |
| JPR 82238 | Soil                             | 71    | 78    | 1.65  | 480   | 0.175 | <1    | 3.09  | 0.009 | 0.78  | <0.1  | <0.01 | 5.7   | 0.4   | <0.05 | 13    | 0.5   |
| JPR 82239 | Soil                             | 71    | 79    | 1.68  | 473   | 0.188 | <1    | 3.23  | 0.009 | 0.79  | <0.1  | <0.01 | 5.9   | 0.3   | <0.05 | 12    | 0.9   |
| JPR 82240 | Soil                             | 21    | 74    | 0.87  | 558   | 0.099 | <1    | 1.84  | 0.005 | 0.61  | <0.1  | 0.02  | 9.3   | 0.2   | <0.05 | 7     | 1.0   |
| JPR 82241 | Soil                             | 21    | 105   | 1.16  | 860   | 0.177 | <1    | 2.44  | 0.006 | 0.76  | <0.1  | <0.01 | 9.3   | 0.3   | <0.05 | 9     | 0.9   |
| JPR 82242 | Soil                             | 10    | 565   | 3.88  | 1339  | 0.177 | <1    | 3.10  | 0.011 | 0.71  | <0.1  | <0.01 | 11.8  | 0.5   | <0.05 | 10    | <0.5  |
| JPR 82243 | Soil                             | 13    | 188   | 2.00  | 963   | 0.202 | <1    | 2.99  | 0.008 | 0.73  | <0.1  | <0.01 | 8.1   | 0.3   | <0.05 | 9     | 1.2   |
| JPR 82244 | Soil                             | 8     | 51    | 0.25  | 285   | 0.029 | 1     | 1.12  | 0.007 | 0.14  | <0.1  | 0.02  | 5.8   | 0.1   | <0.05 | 3     | 1.5   |
| JPR 82245 | Soil                             | 27    | 128   | 1.43  | 1150  | 0.138 | <1    | 2.74  | 0.018 | 0.58  | <0.1  | <0.01 | 6.6   | 0.2   | 0.07  | 9     | 1.4   |
| JPR 82246 | Soil                             | 16    | 215   | 2.11  | 1748  | 0.142 | <1    | 3.04  | 0.012 | 0.57  | <0.1  | <0.01 | 10.6  | 0.3   | <0.05 | 9     | 1.1   |
| JPR 82247 | Soil                             | 19    | 85    | 1.10  | 1045  | 0.107 | <1    | 1.84  | 0.006 | 0.49  | <0.1  | <0.01 | 7.0   | 0.2   | <0.05 | 7     | 1.0   |
| JPR 82248 | Soil                             | 35    | 184   | 1.75  | 821   | 0.196 | <1    | 3.07  | 0.011 | 0.97  | <0.1  | <0.01 | 7.9   | 0.5   | 0.07  | 11    | 2.1   |
| JPR 82249 | Soil                             | 22    | 159   | 1.68  | 1894  | 0.170 | <1    | 2.71  | 0.011 | 1.17  | <0.1  | 0.02  | 11.4  | 0.5   | <0.05 | 11    | 1.5   |
| JPR 82361 | Soil                             | 27    | 18    | 1.58  | 281   | 0.201 | <1    | 2.71  | 0.010 | 1.08  | 0.3   | 0.03  | 7.6   | 0.3   | <0.05 | 7     | <0.5  |
| JPR 82635 | Soil                             | 16    | 36    | 0.78  | 281   | 0.091 | 1     | 2.06  | 0.015 | 0.07  | 0.1   | 0.03  | 5.7   | <0.1  | <0.05 | 6     | 0.6   |



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Project: JPR  
Report Date: December 03, 2009

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## CERTIFICATE OF ANALYSIS

VAN09005577.1

|           | Method | Analyte | Unit | MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |      |       |
|-----------|--------|---------|------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
|           |        |         |      |     | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca   | P     |
|           |        |         |      |     | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %    | %     |
|           |        |         |      |     | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 0.1   | 2    | 0.01  |
| JPR 82636 | Soil   |         |      |     | 0.6   | 26.6  | 7.3   | 57    | <0.1  | 15.7  | 8.3   | 466   | 3.33  | 6.3   | 0.9   | 4.6   | 5.5   | 21    | <0.1  | 0.4   | 0.1   | 42    | 0.30 | 0.064 |
| JPR 82637 | Soil   |         |      |     | 0.5   | 17.8  | 9.4   | 73    | <0.1  | 12.1  | 8.7   | 549   | 3.02  | 4.1   | 1.1   | 9.5   | 12.3  | 18    | 0.2   | 0.3   | <0.1  | 37    | 0.24 | 0.047 |
| JPR 82638 | Soil   |         |      |     | 0.1   | 14.3  | 1.0   | 86    | <0.1  | 14.1  | 19.5  | 788   | 4.57  | 1.0   | 0.2   | <0.5  | 3.0   | 22    | <0.1  | <0.1  | <0.1  | 105   | 0.48 | 0.089 |
| JPR 82639 | Soil   |         |      |     | 0.2   | 16.0  | 2.3   | 86    | <0.1  | 13.1  | 23.5  | 886   | 5.28  | 0.8   | 0.5   | 0.8   | 3.6   | 32    | <0.1  | 0.1   | <0.1  | 107   | 0.51 | 0.105 |
| JPR 82640 | Soil   |         |      |     | 0.5   | 14.1  | 2.6   | 76    | <0.1  | 16.7  | 22.2  | 705   | 4.58  | 2.6   | 0.3   | <0.5  | 2.6   | 13    | <0.1  | 0.2   | <0.1  | 90    | 0.25 | 0.047 |
| JPR 82643 | Soil   |         |      |     | 0.3   | 19.4  | 9.5   | 91    | 0.1   | 11.7  | 20.9  | 795   | 4.57  | 0.8   | 0.6   | 42.1  | 5.8   | 21    | 0.2   | <0.1  | <0.1  | 86    | 0.52 | 0.108 |
| JPR 82644 | Soil   |         |      |     | 0.7   | 21.4  | 5.3   | 72    | <0.1  | 18.9  | 19.9  | 619   | 4.19  | 5.4   | 0.4   | 1.4   | 3.2   | 12    | <0.1  | 0.3   | <0.1  | 84    | 0.21 | 0.043 |
| JPR 82645 | Soil   |         |      |     | 0.4   | 12.4  | 6.4   | 62    | <0.1  | 13.0  | 18.4  | 702   | 4.19  | 2.7   | 0.6   | 0.7   | 3.7   | 10    | <0.1  | 0.2   | <0.1  | 74    | 0.16 | 0.028 |
| JPR 82646 | Soil   |         |      |     | 0.5   | 11.6  | 4.9   | 98    | <0.1  | 11.1  | 17.2  | 808   | 5.39  | 2.0   | 0.7   | 0.8   | 5.0   | 14    | <0.1  | 0.1   | <0.1  | 131   | 0.22 | 0.041 |
| JPR 82647 | Soil   |         |      |     | 0.7   | 18.6  | 7.7   | 50    | <0.1  | 19.2  | 11.2  | 334   | 2.96  | 6.8   | 0.6   | 3.2   | 2.7   | 13    | <0.1  | 0.4   | 0.1   | 59    | 0.21 | 0.058 |
| JPR 82648 | Soil   |         |      |     | 0.4   | 17.4  | 2.8   | 67    | <0.1  | 16.3  | 16.2  | 603   | 3.60  | 2.9   | 0.4   | 3.2   | 4.1   | 17    | <0.1  | 0.2   | <0.1  | 68    | 0.49 | 0.077 |
| JPR 82751 | Soil   |         |      |     | 1.0   | 11.2  | 5.0   | 37    | <0.1  | 13.0  | 9.1   | 479   | 2.44  | 5.6   | 0.5   | <0.5  | 4.0   | 6     | <0.1  | 0.2   | <0.1  | 38    | 0.08 | 0.035 |
| JPR 82752 | Soil   |         |      |     | 0.6   | 31.2  | 6.4   | 44    | <0.1  | 29.9  | 16.4  | 306   | 2.90  | 6.4   | 0.5   | 1.4   | 3.2   | 12    | <0.1  | 0.4   | <0.1  | 59    | 0.18 | 0.019 |
| JPR 82755 | Soil   |         |      |     | 0.6   | 20.4  | 6.4   | 43    | <0.1  | 28.8  | 13.1  | 299   | 2.78  | 6.4   | 0.4   | 1.8   | 2.6   | 10    | <0.1  | 0.4   | 0.1   | 56    | 0.13 | 0.020 |
| JPR 82756 | Soil   |         |      |     | 0.6   | 43.9  | 4.9   | 38    | <0.1  | 22.1  | 16.9  | 289   | 2.61  | 4.7   | 0.6   | 1.9   | 2.2   | 15    | <0.1  | 0.3   | <0.1  | 51    | 0.26 | 0.036 |
| JPR 82757 | Soil   |         |      |     | 0.8   | 28.9  | 7.0   | 57    | <0.1  | 26.8  | 13.2  | 446   | 2.87  | 7.0   | 0.7   | 4.2   | 4.1   | 21    | <0.1  | 0.4   | 0.1   | 57    | 0.31 | 0.042 |
| JPR 82758 | Soil   |         |      |     | 0.6   | 36.8  | 12.5  | 45    | <0.1  | 23.3  | 10.4  | 229   | 2.62  | 5.6   | 1.3   | 4.3   | 3.7   | 14    | <0.1  | 0.4   | 0.1   | 56    | 0.21 | 0.032 |
| JPR 82759 | Soil   |         |      |     | 0.2   | 19.1  | 2.0   | 40    | <0.1  | 31.6  | 21.2  | 430   | 4.02  | 2.4   | 0.5   | 0.7   | 2.0   | 19    | <0.1  | 0.2   | <0.1  | 81    | 0.49 | 0.059 |
| JPR 82760 | Soil   |         |      |     | 0.6   | 31.3  | 4.0   | 55    | <0.1  | 31.3  | 21.1  | 545   | 4.27  | 3.8   | 0.7   | 0.6   | 7.5   | 11    | <0.1  | 0.2   | <0.1  | 68    | 0.18 | 0.030 |
| JPR 82761 | Soil   |         |      |     | 1.1   | 14.4  | 10.0  | 42    | <0.1  | 17.3  | 9.1   | 245   | 2.69  | 8.3   | 0.8   | 2.1   | 3.9   | 11    | <0.1  | 0.4   | 0.2   | 59    | 0.13 | 0.025 |
| JPR 82762 | Soil   |         |      |     | 1.0   | 17.5  | 11.0  | 46    | <0.1  | 20.5  | 12.6  | 346   | 3.35  | 10.1  | 0.6   | 2.9   | 5.1   | 11    | <0.1  | 0.5   | 0.2   | 63    | 0.13 | 0.021 |
| JPR 82763 | Soil   |         |      |     | 0.7   | 35.8  | 7.5   | 51    | <0.1  | 27.4  | 10.9  | 359   | 2.79  | 8.4   | 1.0   | 1.9   | 3.5   | 24    | <0.1  | 0.5   | 0.2   | 57    | 0.32 | 0.039 |
| JPR 82836 | Soil   |         |      |     | 0.7   | 28.6  | 8.6   | 76    | <0.1  | 25.7  | 17.2  | 493   | 4.31  | 6.1   | 0.6   | 0.6   | 8.8   | 28    | 0.1   | 0.4   | <0.1  | 59    | 0.46 | 0.071 |
| JPR 82837 | Soil   |         |      |     | 0.7   | 24.3  | 5.7   | 46    | <0.1  | 17.1  | 13.2  | 593   | 3.05  | 4.8   | 0.4   | 1.2   | 5.9   | 17    | <0.1  | 0.3   | <0.1  | 51    | 0.29 | 0.023 |
| JPR 82838 | Soil   |         |      |     | 0.8   | 25.0  | 4.4   | 41    | <0.1  | 24.9  | 11.6  | 274   | 2.77  | 5.9   | 0.3   | 1.7   | 1.9   | 18    | <0.1  | 0.3   | <0.1  | 60    | 0.32 | 0.026 |
| JPR 82839 | Soil   |         |      |     | 0.6   | 31.9  | 4.0   | 48    | <0.1  | 15.7  | 16.2  | 502   | 3.62  | 2.7   | 0.3   | 1.8   | 1.4   | 20    | <0.1  | 0.2   | <0.1  | 82    | 0.65 | 0.073 |
| JPR 82840 | Soil   |         |      |     | 1.0   | 11.2  | 2.8   | 63    | <0.1  | 5.5   | 6.5   | 681   | 4.30  | 1.7   | 0.8   | 3.5   | 3.7   | 21    | <0.1  | 0.2   | <0.1  | 18    | 0.55 | 0.144 |
| JPR 82841 | Soil   |         |      |     | 1.0   | 16.1  | 5.9   | 52    | <0.1  | 15.3  | 8.4   | 356   | 2.93  | 4.7   | 0.4   | 2.5   | 2.9   | 16    | <0.1  | 0.4   | 0.1   | 47    | 0.25 | 0.049 |
| JPR 82842 | Soil   |         |      |     | 0.8   | 20.1  | 5.0   | 47    | <0.1  | 17.2  | 8.8   | 313   | 2.51  | 5.4   | 0.5   | 1.2   | 2.7   | 24    | <0.1  | 0.4   | <0.1  | 41    | 0.45 | 0.060 |
| JPR 82843 | Soil   |         |      |     | 0.7   | 18.1  | 4.3   | 42    | <0.1  | 14.4  | 8.7   | 330   | 2.26  | 4.3   | 0.4   | 3.6   | 3.7   | 19    | <0.1  | 0.3   | <0.1  | 38    | 0.38 | 0.064 |



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Project: JPR  
Report Date: December 03, 2009

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## CERTIFICATE OF ANALYSIS

VAN09005577.1

|           | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|           |                                  | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    |
|           |                                  | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   |
|           |                                  | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     |
| JPR 82636 | Soil                             | 24    | 24    | 0.54  | 247   | 0.076 | <1    | 1.88  | 0.009 | 0.20  | <0.1  | 0.02  | 5.1   | 0.1   | <0.05 | 6     |
| JPR 82637 | Soil                             | 34    | 18    | 0.50  | 223   | 0.116 | <1    | 1.67  | 0.008 | 0.38  | 0.1   | 0.01  | 4.6   | 0.3   | <0.05 | 6     |
| JPR 82638 | Soil                             | 7     | 30    | 2.16  | 619   | 0.237 | <1    | 2.75  | 0.008 | 1.17  | <0.1  | <0.01 | 2.9   | 0.4   | <0.05 | 8     |
| JPR 82639 | Soil                             | 10    | 29    | 2.14  | 721   | 0.244 | <1    | 3.18  | 0.011 | 1.39  | <0.1  | <0.01 | 4.0   | 0.5   | <0.05 | 8     |
| JPR 82640 | Soil                             | 9     | 29    | 1.98  | 413   | 0.308 | <1    | 3.27  | 0.010 | 0.95  | <0.1  | <0.01 | 1.8   | 0.4   | <0.05 | 7     |
| JPR 82643 | Soil                             | 13    | 25    | 2.10  | 393   | 0.191 | <1    | 2.69  | 0.007 | 1.16  | <0.1  | 0.01  | 4.3   | 0.4   | <0.05 | 7     |
| JPR 82644 | Soil                             | 7     | 33    | 1.44  | 266   | 0.216 | <1    | 2.77  | 0.008 | 0.60  | <0.1  | 0.01  | 2.3   | 0.3   | <0.05 | 7     |
| JPR 82645 | Soil                             | 11    | 30    | 1.53  | 265   | 0.118 | <1    | 2.92  | 0.006 | 0.51  | <0.1  | 0.01  | 4.5   | 0.2   | <0.05 | 7     |
| JPR 82646 | Soil                             | 11    | 30    | 1.93  | 202   | 0.132 | <1    | 2.81  | 0.007 | 0.90  | <0.1  | <0.01 | 5.1   | 0.4   | <0.05 | 10    |
| JPR 82647 | Soil                             | 12    | 28    | 0.75  | 190   | 0.091 | <1    | 1.77  | 0.007 | 0.17  | 0.1   | 0.02  | 2.5   | 0.1   | <0.05 | 5     |
| JPR 82648 | Soil                             | 9     | 28    | 1.40  | 396   | 0.137 | <1    | 2.09  | 0.008 | 0.59  | <0.1  | <0.01 | 3.3   | 0.2   | <0.05 | 6     |
| JPR 82751 | Soil                             | 4     | 22    | 0.42  | 98    | 0.074 | <1    | 1.47  | 0.005 | 0.14  | <0.1  | <0.01 | 1.4   | 0.1   | <0.05 | 5     |
| JPR 82752 | Soil                             | 11    | 50    | 0.93  | 171   | 0.118 | <1    | 2.05  | 0.009 | 0.13  | 0.1   | 0.02  | 3.0   | <0.1  | <0.05 | 5     |
| JPR 82755 | Soil                             | 7     | 55    | 0.85  | 116   | 0.054 | <1    | 2.23  | 0.008 | 0.03  | 0.1   | 0.03  | 3.6   | <0.1  | <0.05 | 5     |
| JPR 82756 | Soil                             | 8     | 38    | 0.79  | 161   | 0.082 | <1    | 1.73  | 0.012 | 0.07  | 0.1   | 0.02  | 3.1   | <0.1  | <0.05 | 4     |
| JPR 82757 | Soil                             | 18    | 44    | 0.74  | 227   | 0.072 | <1    | 1.73  | 0.009 | 0.05  | 0.1   | 0.03  | 4.6   | <0.1  | <0.05 | 5     |
| JPR 82758 | Soil                             | 14    | 50    | 0.64  | 144   | 0.060 | <1    | 1.72  | 0.009 | 0.04  | 0.1   | 0.03  | 5.7   | <0.1  | <0.05 | 5     |
| JPR 82759 | Soil                             | 8     | 49    | 1.40  | 177   | 0.091 | <1    | 2.17  | 0.023 | 0.08  | <0.1  | <0.01 | 5.5   | <0.1  | <0.05 | 7     |
| JPR 82760 | Soil                             | 9     | 50    | 1.07  | 101   | 0.095 | <1    | 2.69  | 0.005 | 0.10  | <0.1  | 0.02  | 4.3   | 0.1   | <0.05 | 6     |
| JPR 82761 | Soil                             | 11    | 33    | 0.44  | 149   | 0.054 | <1    | 1.89  | 0.007 | 0.04  | 0.1   | 0.03  | 2.9   | <0.1  | <0.05 | 6     |
| JPR 82762 | Soil                             | 11    | 37    | 0.63  | 131   | 0.069 | <1    | 2.30  | 0.007 | 0.06  | 0.1   | 0.02  | 3.3   | 0.1   | <0.05 | 6     |
| JPR 82763 | Soil                             | 14    | 38    | 0.62  | 289   | 0.070 | <1    | 1.63  | 0.014 | 0.05  | 0.1   | 0.03  | 5.0   | <0.1  | <0.05 | 5     |
| JPR 82836 | Soil                             | 9     | 55    | 1.14  | 188   | 0.060 | <1    | 2.41  | 0.008 | 0.25  | <0.1  | 0.01  | 3.8   | 0.1   | <0.05 | 8     |
| JPR 82837 | Soil                             | 10    | 30    | 0.72  | 208   | 0.109 | <1    | 1.87  | 0.010 | 0.34  | <0.1  | <0.01 | 2.8   | 0.1   | <0.05 | 6     |
| JPR 82838 | Soil                             | 7     | 50    | 0.78  | 129   | 0.048 | <1    | 1.63  | 0.011 | 0.05  | 0.1   | 0.02  | 3.6   | <0.1  | <0.05 | 5     |
| JPR 82839 | Soil                             | 6     | 31    | 1.04  | 123   | 0.048 | <1    | 2.00  | 0.030 | 0.05  | <0.1  | 0.01  | 5.5   | <0.1  | <0.05 | 6     |
| JPR 82840 | Soil                             | 32    | 7     | 0.55  | 214   | 0.017 | <1    | 1.83  | 0.006 | 0.11  | 0.7   | 0.02  | 7.7   | <0.1  | <0.05 | 9     |
| JPR 82841 | Soil                             | 9     | 24    | 0.52  | 174   | 0.069 | <1    | 1.68  | 0.010 | 0.08  | 0.2   | 0.02  | 3.4   | <0.1  | <0.05 | 6     |
| JPR 82842 | Soil                             | 9     | 23    | 0.53  | 214   | 0.072 | <1    | 1.33  | 0.025 | 0.07  | 0.1   | 0.01  | 3.0   | <0.1  | <0.05 | 4     |
| JPR 82843 | Soil                             | 11    | 21    | 0.43  | 173   | 0.079 | <1    | 1.07  | 0.014 | 0.10  | 0.1   | 0.01  | 3.0   | <0.1  | <0.05 | 4     |



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Project: JPR  
Report Date: December 03, 2009

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## CERTIFICATE OF ANALYSIS

VAN09005577.1

|           | Method | Analyte | Unit | MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |     |    |      |
|-----------|--------|---------|------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|----|------|
|           |        |         |      |     | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V   | Ca | P    |
|           |        |         |      |     | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm | %  | %    |
|           |        |         |      |     | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 0.1 | 2  | 0.01 |
| JPR 82844 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |    |      |
| JPR 82845 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |    |      |
| JPR 82846 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |    |      |
| JPR 82852 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |    |      |
| JPR 83448 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |    |      |
| JPR 83674 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |    |      |
| JPR 83675 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |    |      |
| JPR 83676 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |    |      |
| JPR 83677 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |    |      |
| JPR 86455 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |    |      |
| JPR 86456 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |    |      |
| JPR 86457 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |    |      |
| JPR 86458 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |    |      |
| JPR 86459 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |    |      |
| JPR 86460 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |    |      |
| JPR 86493 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |    |      |
| JPR 86494 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |    |      |
| JPR 86609 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |    |      |
| JPR 86611 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |    |      |
| JPR 86612 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |    |      |
| JPR 86613 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |    |      |
| JPR 86614 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |    |      |
| JPR 86617 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |    |      |
| JPR 86622 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |    |      |
| JPR 86623 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |    |      |
| JPR 86624 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |    |      |
| JPR 86625 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |    |      |
| JPR 86626 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |    |      |
| JPR 86627 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |    |      |
| JPR 86628 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |    |      |



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Report Date: December 03, 2009

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## CERTIFICATE OF ANALYSIS

VAN09005577.1

|           | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|           |                                  | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |
|           |                                  | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |
|           |                                  | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |
| JPR 82844 | Soil                             | 19    | 25    | 0.41  | 198   | 0.090 | <1    | 1.45  | 0.010 | 0.09  | 0.1   | 0.02  | 3.5   | <0.1  | <0.05 | 5     | 0.6   |
| JPR 82845 | Soil                             | 16    | 29    | 0.48  | 243   | 0.075 | <1    | 1.46  | 0.016 | 0.06  | 0.1   | 0.02  | 3.7   | <0.1  | <0.05 | 5     | 0.7   |
| JPR 82846 | Soil                             | 17    | 23    | 0.41  | 201   | 0.066 | <1    | 1.30  | 0.012 | 0.06  | 0.2   | 0.02  | 3.4   | <0.1  | <0.05 | 4     | 0.5   |
| JPR 82852 | Soil                             | 13    | 25    | 0.61  | 237   | 0.114 | <1    | 1.53  | 0.015 | 0.22  | 0.2   | 0.02  | 2.9   | <0.1  | <0.05 | 4     | <0.5  |
| JPR 83448 | Soil                             | 9     | 42    | 0.57  | 157   | 0.063 | <1    | 1.64  | 0.009 | 0.04  | 0.1   | 0.02  | 3.1   | <0.1  | <0.05 | 5     | 0.5   |
| JPR 83674 | Soil                             | 13    | 31    | 0.71  | 257   | 0.059 | 2     | 1.52  | 0.024 | 0.05  | 0.1   | 0.04  | 4.3   | 0.1   | <0.05 | 4     | <0.5  |
| JPR 83675 | Soil                             | 15    | 38    | 0.53  | 253   | 0.064 | 1     | 1.88  | 0.010 | 0.05  | 0.2   | 0.03  | 5.9   | 0.1   | <0.05 | 6     | 0.9   |
| JPR 83676 | Soil                             | 16    | 45    | 0.57  | 252   | 0.061 | 1     | 1.87  | 0.016 | 0.05  | 0.2   | 0.05  | 6.0   | <0.1  | <0.05 | 5     | 1.2   |
| JPR 83677 | Soil                             | 13    | 32    | 0.53  | 258   | 0.050 | 1     | 1.60  | 0.021 | 0.04  | 0.2   | 0.04  | 4.5   | <0.1  | <0.05 | 5     | <0.5  |
| JPR 86455 | Soil                             | 22    | 40    | 0.73  | 200   | 0.095 | 1     | 1.76  | 0.025 | 0.15  | <0.1  | 0.03  | 4.5   | 0.1   | 0.09  | 6     | 0.7   |
| JPR 86456 | Soil                             | 16    | 43    | 0.64  | 155   | 0.093 | 1     | 1.50  | 0.026 | 0.12  | 0.1   | 0.02  | 3.4   | 0.1   | <0.05 | 6     | <0.5  |
| JPR 86457 | Soil                             | 15    | 44    | 0.61  | 168   | 0.098 | <1    | 1.40  | 0.023 | 0.14  | 0.1   | 0.02  | 3.1   | 0.1   | <0.05 | 5     | <0.5  |
| JPR 86458 | Soil                             | 13    | 47    | 0.66  | 237   | 0.099 | <1    | 1.48  | 0.016 | 0.16  | 0.1   | 0.02  | 3.2   | 0.1   | <0.05 | 5     | 0.6   |
| JPR 86459 | Soil                             | 15    | 44    | 0.63  | 210   | 0.094 | 1     | 1.49  | 0.019 | 0.10  | 0.5   | 0.03  | 3.6   | <0.1  | <0.05 | 5     | 0.5   |
| JPR 86460 | Soil                             | 11    | 36    | 0.56  | 153   | 0.086 | <1    | 1.21  | 0.017 | 0.09  | <0.1  | 0.02  | 2.6   | 0.1   | <0.05 | 4     | 0.6   |
| JPR 86493 | Soil                             | 17    | 223   | 2.37  | 446   | 0.150 | <1    | 3.71  | 0.007 | 0.22  | <0.1  | 0.02  | 8.0   | 0.2   | <0.05 | 13    | 0.8   |
| JPR 86494 | Soil                             | 13    | 102   | 1.05  | 261   | 0.129 | 2     | 2.15  | 0.016 | 0.14  | 7.4   | <0.01 | 3.3   | 0.2   | <0.05 | 7     | 0.6   |
| JPR 86609 | Soil                             | 37    | 45    | 2.17  | 322   | 0.144 | <1    | 3.04  | 0.013 | 1.32  | <0.1  | <0.01 | 3.8   | 0.6   | <0.05 | 10    | 1.0   |
| JPR 86611 | Soil                             | 21    | 28    | 0.95  | 277   | 0.099 | <1    | 1.79  | 0.011 | 0.37  | 0.2   | 0.03  | 3.7   | 0.2   | <0.05 | 6     | 0.8   |
| JPR 86612 | Soil                             | 16    | 27    | 0.61  | 274   | 0.084 | 2     | 1.20  | 0.019 | 0.12  | 0.3   | 0.03  | 3.5   | 0.1   | <0.05 | 4     | 1.0   |
| JPR 86613 | Soil                             | 19    | 28    | 0.54  | 237   | 0.072 | 1     | 1.30  | 0.016 | 0.09  | 0.3   | 0.04  | 3.4   | 0.2   | <0.05 | 4     | 1.3   |
| JPR 86614 | Soil                             | 16    | 30    | 0.60  | 276   | 0.065 | 1     | 1.40  | 0.018 | 0.08  | 0.2   | 0.06  | 3.5   | 0.1   | <0.05 | 4     | 1.0   |
| JPR 86617 | Soil                             | 21    | 23    | 0.79  | 318   | 0.103 | 1     | 1.69  | 0.017 | 0.22  | 0.2   | 0.04  | 3.2   | 0.1   | <0.05 | 5     | 0.6   |
| JPR 86622 | Soil                             | 31    | 12    | 0.55  | 175   | 0.113 | <1    | 1.74  | 0.008 | 0.24  | <0.1  | 0.02  | 2.7   | 0.1   | <0.05 | 7     | <0.5  |
| JPR 86623 | Soil                             | 15    | 14    | 1.44  | 284   | 0.226 | <1    | 2.72  | 0.008 | 0.95  | <0.1  | <0.01 | 2.2   | 0.3   | <0.05 | 7     | <0.5  |
| JPR 86624 | Soil                             | 19    | 32    | 0.84  | 231   | 0.107 | 1     | 1.96  | 0.010 | 0.25  | 0.1   | 0.02  | 3.3   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 86625 | Soil                             | 39    | 44    | 1.73  | 440   | 0.180 | <1    | 2.97  | 0.039 | 1.29  | <0.1  | <0.01 | 5.5   | 0.5   | 0.36  | 10    | 1.2   |
| JPR 86626 | Soil                             | 26    | 39    | 0.86  | 456   | 0.095 | 1     | 1.83  | 0.013 | 0.32  | 0.1   | 0.05  | 4.4   | 0.2   | <0.05 | 6     | 0.5   |
| JPR 86627 | Soil                             | 18    | 25    | 0.95  | 245   | 0.137 | <1    | 1.79  | 0.009 | 0.57  | 0.2   | 0.01  | 3.6   | 0.2   | <0.05 | 7     | <0.5  |
| JPR 86628 | Soil                             | 12    | 19    | 1.09  | 282   | 0.162 | <1    | 1.95  | 0.011 | 0.61  | 0.1   | 0.02  | 3.7   | 0.3   | <0.05 | 7     | <0.5  |



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**Project:** JPR  
**Report Date:** December 03, 2009

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## CERTIFICATE OF ANALYSIS

VAN09005577.1

|           | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|           |                                  | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P     |
|           |                                  | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %     |
|           |                                  | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 0.1   | 2     | 0.01  |
| JPR 86660 | Soil                             | 1.5   | 19.9  | 7.2   | 75    | <0.1  | 13.0  | 8.2   | 317   | 2.75  | 3.7   | 1.1   | 6.3   | 3.6   | 14    | <0.1  | 0.2   | 0.1   | 64    | 0.22  | 0.061 |
| JPR 86661 | Soil                             | 1.1   | 26.7  | 7.0   | 64    | <0.1  | 14.9  | 10.9  | 341   | 2.24  | 5.2   | 1.6   | 5.0   | 4.6   | 24    | 0.1   | 0.4   | 0.2   | 45    | 0.36  | 0.060 |
| JPR 86672 | Soil                             | 15.1  | 108.4 | 26.6  | 336   | 0.6   | 62.3  | 9.8   | 397   | 2.97  | 5.0   | 2.8   | 4.2   | 4.2   | 42    | 0.8   | 0.3   | 0.4   | 221   | 0.41  | 0.217 |
| JPR 86719 | Soil                             | 1.3   | 16.4  | 4.1   | 70    | <0.1  | 5.9   | 8.3   | 544   | 2.82  | 2.1   | 1.3   | 1.7   | 9.6   | 17    | <0.1  | 0.2   | <0.1  | 55    | 0.29  | 0.065 |
| JPR 86722 | Soil                             | 2.7   | 27.0  | 14.8  | 89    | <0.1  | 9.3   | 13.5  | 642   | 3.56  | 3.1   | 0.4   | <0.5  | 3.7   | 15    | <0.1  | 0.1   | 0.2   | 77    | 0.24  | 0.034 |
| JPR 86726 | Soil                             | 0.8   | 19.4  | 4.5   | 79    | <0.1  | 14.3  | 16.9  | 656   | 4.43  | 5.7   | 0.3   | 0.6   | 2.8   | 12    | <0.1  | 0.3   | <0.1  | 102   | 0.16  | 0.028 |
| JPR 86727 | Soil                             | 1.0   | 11.1  | 8.1   | 99    | <0.1  | 7.6   | 22.5  | 1103  | 5.05  | 4.1   | 0.3   | <0.5  | 4.4   | 10    | 0.1   | 0.1   | <0.1  | 93    | 0.14  | 0.085 |
| JPR 86729 | Soil                             | 1.4   | 12.8  | 2.5   | 92    | <0.1  | 7.4   | 20.1  | 1179  | 5.08  | 1.2   | 0.7   | <0.5  | 13.1  | 13    | <0.1  | <0.1  | <0.1  | 109   | 0.26  | 0.072 |
| JPR 86730 | Soil                             | 2.3   | 14.6  | 14.2  | 74    | <0.1  | 10.7  | 15.8  | 741   | 3.78  | 3.1   | 0.7   | 0.6   | 8.8   | 13    | 0.1   | 0.1   | 0.2   | 76    | 0.17  | 0.047 |
| JPR 86740 | Soil                             | 1.5   | 21.8  | 4.7   | 84    | <0.1  | 11.7  | 17.0  | 782   | 3.90  | 2.2   | 0.7   | 0.9   | 4.2   | 16    | 0.1   | 0.1   | <0.1  | 91    | 0.32  | 0.078 |
| JPR 86741 | Soil                             | 1.3   | 31.5  | 3.3   | 95    | <0.1  | 8.5   | 19.3  | 903   | 4.33  | 0.9   | 0.6   | <0.5  | 4.4   | 17    | 0.2   | <0.1  | <0.1  | 105   | 0.33  | 0.059 |
| JPR 86742 | Soil                             | 2.9   | 63.7  | 8.4   | 162   | <0.1  | 30.0  | 20.0  | 824   | 4.49  | 2.3   | 1.2   | 0.8   | 6.0   | 21    | 0.4   | 0.1   | 0.1   | 114   | 0.26  | 0.069 |
| JPR 86744 | Soil                             | 3.5   | 51.4  | 7.4   | 89    | <0.1  | 40.4  | 16.5  | 467   | 3.80  | 3.1   | 1.2   | 2.3   | 7.5   | 23    | 0.2   | 0.2   | 0.1   | 83    | 0.44  | 0.134 |
| JPR 86746 | Soil                             | 2.3   | 26.6  | 7.5   | 61    | <0.1  | 17.3  | 9.4   | 365   | 2.99  | 5.6   | 1.1   | 3.4   | 4.0   | 20    | <0.1  | 0.2   | 0.3   | 82    | 0.27  | 0.071 |
| JPR 86747 | Soil                             | 9.7   | 65.1  | 12.5  | 77    | 0.1   | 36.0  | 14.4  | 566   | 3.24  | 6.8   | 1.7   | 5.4   | 3.7   | 26    | 0.3   | 0.3   | 0.6   | 84    | 0.28  | 0.106 |
| JPR 86748 | Soil                             | 2.6   | 34.2  | 11.0  | 64    | 0.2   | 19.8  | 8.6   | 288   | 2.69  | 5.5   | 1.9   | 3.1   | 2.1   | 16    | 0.3   | 0.2   | 0.2   | 64    | 0.22  | 0.074 |
| JPR 86749 | Soil                             | 1.4   | 20.1  | 8.4   | 59    | 0.2   | 16.6  | 6.3   | 205   | 2.36  | 4.0   | 1.2   | 3.5   | 2.9   | 16    | 0.3   | 0.2   | 0.2   | 50    | 0.22  | 0.074 |
| JPR 86750 | Soil                             | 1.3   | 47.9  | 5.3   | 81    | <0.1  | 7.6   | 11.6  | 823   | 4.20  | 4.2   | 1.0   | <0.5  | 18.9  | 14    | <0.1  | 0.2   | <0.1  | 60    | 0.13  | 0.021 |
| JPR 86751 | Soil                             | 0.8   | 25.4  | 8.2   | 72    | <0.1  | 20.9  | 11.0  | 472   | 3.64  | 9.4   | 0.9   | 2.4   | 12.7  | 13    | <0.1  | 0.5   | 0.1   | 65    | 0.12  | 0.015 |
| JPR 86752 | Soil                             | 0.8   | 35.7  | 5.0   | 114   | <0.1  | 74.1  | 19.5  | 891   | 4.15  | 3.0   | 0.9   | 1.6   | 13.4  | 36    | <0.1  | 0.3   | <0.1  | 84    | 0.86  | 0.245 |
| JPR 86753 | Soil                             | 3.3   | 19.7  | 7.3   | 66    | <0.1  | 13.8  | 11.0  | 484   | 3.64  | 7.0   | 1.0   | 1.1   | 8.8   | 15    | <0.1  | 0.4   | 0.1   | 64    | 0.14  | 0.025 |
| JPR 86754 | Soil                             | 0.8   | 25.3  | 8.0   | 57    | <0.1  | 19.4  | 9.9   | 388   | 3.03  | 8.4   | 1.2   | 2.8   | 10.1  | 18    | <0.1  | 0.5   | 0.1   | 64    | 0.21  | 0.027 |
| JPR 86755 | Soil                             | 1.3   | 23.6  | 10.1  | 64    | <0.1  | 24.0  | 10.7  | 362   | 3.50  | 11.5  | 1.0   | 1.9   | 9.6   | 20    | <0.1  | 0.6   | 0.2   | 72    | 0.20  | 0.027 |
| JPR 86756 | Soil                             | 2.3   | 28.2  | 8.0   | 77    | <0.1  | 14.4  | 11.8  | 587   | 3.81  | 7.8   | 1.0   | 1.2   | 13.4  | 14    | <0.1  | 0.4   | 0.1   | 73    | 0.18  | 0.039 |
| JPR 86757 | Soil                             | 2.3   | 40.9  | 4.8   | 84    | <0.1  | 7.9   | 15.4  | 882   | 4.70  | 4.4   | 1.2   | 1.3   | 16.8  | 8     | <0.1  | 0.2   | <0.1  | 94    | 0.11  | 0.033 |
| JPR 86758 | Soil                             | 3.3   | 17.1  | 10.1  | 51    | <0.1  | 22.2  | 12.0  | 442   | 3.06  | 8.6   | 0.5   | 1.1   | 5.8   | 22    | 0.1   | 0.5   | 0.2   | 68    | 0.25  | 0.023 |
| JPR 86759 | Soil                             | 7.0   | 18.9  | 8.2   | 39    | <0.1  | 14.3  | 9.4   | 377   | 2.49  | 6.2   | 0.9   | 0.9   | 10.7  | 12    | <0.1  | 0.3   | 0.1   | 52    | 0.14  | 0.016 |
| JPR 86760 | Soil                             | 1.1   | 37.9  | 5.9   | 66    | <0.1  | 25.1  | 15.9  | 576   | 3.46  | 6.8   | 0.7   | 10.7  | 7.1   | 66    | 0.1   | 0.5   | <0.1  | 76    | 3.99  | 0.047 |
| JPR 86762 | Soil                             | 6.2   | 20.3  | 9.3   | 48    | <0.1  | 22.6  | 8.8   | 229   | 2.68  | 8.9   | 0.8   | 2.4   | 9.0   | 16    | 0.1   | 0.5   | 0.3   | 66    | 0.18  | 0.016 |
| JPR 86833 | Soil                             | 3.1   | 60.7  | 8.8   | 94    | <0.1  | 36.5  | 13.4  | 470   | 3.97  | 6.3   | 1.6   | 4.3   | 5.8   | 18    | 0.1   | 0.2   | 0.3   | 82    | 0.28  | 0.081 |



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**Project:** JPR  
**Report Date:** December 03, 2009

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## CERTIFICATE OF ANALYSIS

VAN09005577.1

|           | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|           |                                  | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |
|           |                                  | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |
|           |                                  | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |
| JPR 86660 | Soil                             | 15    | 25    | 0.85  | 169   | 0.129 | <1    | 1.72  | 0.009 | 0.44  | 0.1   | 0.03  | 2.5   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 86661 | Soil                             | 11    | 17    | 0.67  | 198   | 0.095 | <1    | 1.20  | 0.016 | 0.31  | 0.2   | 0.02  | 2.7   | 0.1   | <0.05 | 3     | <0.5  |
| JPR 86672 | Soil                             | 20    | 51    | 0.74  | 286   | 0.062 | <1    | 1.95  | 0.024 | 0.18  | 0.2   | 0.03  | 3.6   | 0.2   | 0.17  | 6     | 5.9   |
| JPR 86719 | Soil                             | 49    | 11    | 0.91  | 179   | 0.134 | <1    | 1.76  | 0.008 | 0.73  | 0.1   | <0.01 | 3.5   | 0.3   | <0.05 | 6     | <0.5  |
| JPR 86722 | Soil                             | 10    | 20    | 1.33  | 227   | 0.201 | <1    | 2.17  | 0.009 | 0.86  | <0.1  | <0.01 | 1.9   | 0.3   | <0.05 | 6     | <0.5  |
| JPR 86726 | Soil                             | 6     | 25    | 1.56  | 428   | 0.282 | <1    | 2.98  | 0.010 | 0.96  | 0.1   | <0.01 | 2.4   | 0.3   | <0.05 | 7     | 0.5   |
| JPR 86727 | Soil                             | 3     | 15    | 1.63  | 232   | 0.296 | <1    | 3.06  | 0.007 | 1.28  | 0.2   | <0.01 | 1.3   | 0.4   | <0.05 | 8     | <0.5  |
| JPR 86729 | Soil                             | 47    | 13    | 1.86  | 528   | 0.298 | <1    | 3.07  | 0.010 | 1.99  | <0.1  | <0.01 | 3.0   | 0.5   | <0.05 | 7     | <0.5  |
| JPR 86730 | Soil                             | 26    | 19    | 1.26  | 219   | 0.202 | <1    | 2.61  | 0.008 | 1.10  | 0.1   | <0.01 | 3.2   | 0.5   | <0.05 | 7     | <0.5  |
| JPR 86740 | Soil                             | 11    | 16    | 1.53  | 250   | 0.207 | <1    | 2.47  | 0.009 | 1.11  | 0.1   | <0.01 | 2.7   | 0.4   | <0.05 | 7     | <0.5  |
| JPR 86741 | Soil                             | 13    | 14    | 1.83  | 401   | 0.248 | <1    | 2.64  | 0.011 | 1.54  | 0.2   | <0.01 | 3.0   | 0.4   | <0.05 | 7     | 0.7   |
| JPR 86742 | Soil                             | 16    | 23    | 1.60  | 1413  | 0.236 | <1    | 2.98  | 0.014 | 1.06  | 0.1   | 0.01  | 3.4   | 0.5   | <0.05 | 7     | 1.1   |
| JPR 86744 | Soil                             | 20    | 52    | 1.71  | 432   | 0.159 | <1    | 2.96  | 0.014 | 0.84  | 0.1   | <0.01 | 5.6   | 0.3   | <0.05 | 10    | 0.8   |
| JPR 86746 | Soil                             | 12    | 28    | 0.83  | 201   | 0.131 | 1     | 1.87  | 0.012 | 0.19  | 0.2   | 0.01  | 2.8   | 0.2   | <0.05 | 6     | 0.5   |
| JPR 86747 | Soil                             | 16    | 29    | 0.66  | 186   | 0.091 | <1    | 1.58  | 0.010 | 0.18  | 0.2   | 0.01  | 2.9   | 0.2   | 0.07  | 5     | 0.6   |
| JPR 86748 | Soil                             | 18    | 29    | 0.63  | 204   | 0.077 | <1    | 1.56  | 0.008 | 0.16  | 0.2   | 0.05  | 3.0   | 0.1   | <0.05 | 6     | 0.8   |
| JPR 86749 | Soil                             | 18    | 30    | 0.68  | 264   | 0.096 | <1    | 1.53  | 0.010 | 0.22  | 0.2   | 0.04  | 3.2   | 0.2   | <0.05 | 5     | 0.5   |
| JPR 86750 | Soil                             | 20    | 12    | 1.04  | 130   | 0.219 | <1    | 2.67  | 0.006 | 1.08  | 0.7   | 0.02  | 2.2   | 0.6   | <0.05 | 8     | <0.5  |
| JPR 86751 | Soil                             | 17    | 30    | 0.76  | 144   | 0.146 | <1    | 2.18  | 0.010 | 0.38  | 0.2   | 0.01  | 4.3   | 0.2   | <0.05 | 7     | <0.5  |
| JPR 86752 | Soil                             | 42    | 115   | 1.91  | 208   | 0.153 | 1     | 2.79  | 0.010 | 0.41  | 0.1   | 0.02  | 5.1   | 0.3   | <0.05 | 9     | <0.5  |
| JPR 86753 | Soil                             | 8     | 22    | 0.81  | 170   | 0.142 | <1    | 2.06  | 0.008 | 0.52  | 0.1   | 0.02  | 3.1   | 0.3   | <0.05 | 6     | <0.5  |
| JPR 86754 | Soil                             | 27    | 30    | 0.74  | 152   | 0.132 | <1    | 1.69  | 0.013 | 0.31  | 0.1   | 0.02  | 5.4   | 0.1   | <0.05 | 5     | <0.5  |
| JPR 86755 | Soil                             | 16    | 36    | 0.65  | 161   | 0.137 | 1     | 1.95  | 0.009 | 0.32  | 0.2   | 0.01  | 5.7   | 0.1   | <0.05 | 6     | <0.5  |
| JPR 86756 | Soil                             | 21    | 23    | 0.86  | 123   | 0.121 | 1     | 2.42  | 0.008 | 0.28  | 0.3   | 0.01  | 5.0   | 0.1   | <0.05 | 8     | <0.5  |
| JPR 86757 | Soil                             | 14    | 13    | 1.34  | 107   | 0.271 | <1    | 2.86  | 0.008 | 1.38  | 0.2   | <0.01 | 5.0   | 0.5   | <0.05 | 10    | <0.5  |
| JPR 86758 | Soil                             | 11    | 35    | 0.53  | 278   | 0.076 | 1     | 2.14  | 0.011 | 0.10  | 0.2   | 0.02  | 3.9   | <0.1  | <0.05 | 6     | <0.5  |
| JPR 86759 | Soil                             | 7     | 21    | 0.46  | 160   | 0.082 | <1    | 1.60  | 0.008 | 0.16  | 0.1   | 0.01  | 2.6   | 0.1   | <0.05 | 5     | <0.5  |
| JPR 86760 | Soil                             | 21    | 24    | 1.19  | 292   | 0.202 | 1     | 1.98  | 0.021 | 0.42  | 0.2   | 0.05  | 3.3   | 0.3   | <0.05 | 5     | <0.5  |
| JPR 86762 | Soil                             | 10    | 31    | 0.44  | 184   | 0.073 | 1     | 1.96  | 0.008 | 0.08  | 0.1   | 0.02  | 3.1   | 0.1   | <0.05 | 6     | <0.5  |
| JPR 86833 | Soil                             | 18    | 58    | 1.55  | 495   | 0.174 | <1    | 2.64  | 0.011 | 0.58  | <0.1  | 0.02  | 4.9   | 0.3   | <0.05 | 9     | <0.5  |



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Project: JPR  
Report Date: December 03, 2009

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## CERTIFICATE OF ANALYSIS

VAN09005577.1

|           |      | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |      |
|-----------|------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|           |      |                                  | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P    |
|           |      |                                  | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %    |
|           |      |                                  | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 0.1   | 2     | 0.01 |
| JPR 86928 | Soil | 1.4                              | 16.5  | 3.2   | 205   | <0.1  | 26.6  | 17.2  | 725   | 5.50  | 2.3   | 0.5   | <0.5  | 3.3   | 21    | 1.4   | 0.1   | <0.1  | 99    | 0.43  | 0.148 |      |
| JPR 86929 | Soil | 0.9                              | 18.1  | 6.2   | 88    | <0.1  | 16.2  | 12.4  | 408   | 3.71  | 5.3   | 0.6   | 0.9   | 3.7   | 25    | 0.2   | 0.4   | 0.1   | 74    | 0.34  | 0.099 |      |
| JPR 87015 | Soil | 2.1                              | 15.6  | 10.0  | 71    | 0.2   | 19.4  | 10.2  | 470   | 3.48  | 7.2   | 0.7   | 1.9   | 9.8   | 19    | 0.1   | 0.5   | 0.2   | 66    | 0.21  | 0.035 |      |
| JPR 87016 | Soil | 1.5                              | 20.8  | 9.4   | 77    | 0.2   | 18.1  | 16.1  | 880   | 4.08  | 5.0   | 0.9   | <0.5  | 7.2   | 24    | 0.1   | 0.6   | 0.2   | 81    | 0.31  | 0.047 |      |
| JPR 87017 | Soil | 2.9                              | 67.0  | 14.8  | 116   | 0.2   | 20.9  | 25.5  | 1412  | 6.27  | 2.8   | 1.7   | 4.1   | 13.7  | 14    | 0.1   | 0.3   | 0.3   | 98    | 0.38  | 0.046 |      |
| JPR 87018 | Soil | 1.0                              | 26.6  | 9.8   | 52    | <0.1  | 25.4  | 10.2  | 335   | 3.02  | 11.4  | 0.5   | 0.9   | 5.9   | 17    | <0.1  | 0.6   | 0.2   | 65    | 0.21  | 0.018 |      |
| JPR 87019 | Soil | 1.3                              | 24.2  | 10.2  | 65    | <0.1  | 19.3  | 13.3  | 507   | 3.70  | 7.4   | 1.4   | 4.9   | 14.7  | 15    | <0.1  | 0.5   | 0.2   | 67    | 0.32  | 0.028 |      |
| JPR 87020 | Soil | 0.8                              | 27.9  | 8.2   | 60    | <0.1  | 22.5  | 12.2  | 599   | 3.25  | 8.3   | 1.1   | 1.8   | 6.4   | 28    | 0.1   | 0.5   | 0.1   | 64    | 0.58  | 0.043 |      |
| JPR 87021 | Soil | 4.6                              | 33.5  | 22.1  | 129   | <0.1  | 16.6  | 22.4  | 1118  | 5.57  | 2.6   | 1.2   | 4.1   | 11.5  | 19    | 0.3   | 0.3   | 0.2   | 109   | 0.54  | 0.075 |      |
| JPR 87022 | Soil | 6.5                              | 17.6  | 17.4  | 68    | 0.2   | 13.2  | 9.5   | 413   | 3.40  | 6.4   | 0.8   | 3.2   | 8.3   | 15    | 0.1   | 0.5   | 0.2   | 65    | 0.17  | 0.030 |      |
| JPR 87023 | Soil | 3.2                              | 10.2  | 9.9   | 83    | 0.1   | 8.5   | 11.0  | 787   | 2.93  | 5.7   | 0.5   | 1.3   | 6.4   | 11    | 0.1   | 0.4   | 0.2   | 58    | 0.13  | 0.026 |      |
| JPR 87024 | Soil | 2.7                              | 25.3  | 11.2  | 61    | 0.2   | 12.4  | 13.6  | 581   | 3.36  | 5.0   | 1.2   | 5.8   | 8.1   | 18    | 0.1   | 0.3   | 0.2   | 70    | 0.33  | 0.041 |      |
| JPR 87025 | Soil | 2.9                              | 15.5  | 10.8  | 53    | 0.2   | 10.8  | 10.1  | 384   | 3.15  | 5.5   | 0.7   | 5.0   | 5.5   | 17    | 0.1   | 0.3   | 0.2   | 65    | 0.27  | 0.019 |      |
| JPR 87033 | Soil | 0.8                              | 25.8  | 7.8   | 61    | <0.1  | 20.0  | 12.2  | 592   | 3.15  | 7.7   | 1.0   | 1.7   | 6.5   | 27    | 0.1   | 0.5   | 0.1   | 65    | 0.56  | 0.041 |      |
| JPR 87045 | Soil | 1.7                              | 12.1  | 12.7  | 69    | <0.1  | 13.0  | 15.6  | 440   | 4.12  | 6.8   | 1.4   | 1.4   | 13.0  | 9     | <0.1  | 0.5   | 0.2   | 67    | 0.09  | 0.030 |      |
| JPR 87050 | Soil | 1.7                              | 13.0  | 15.0  | 70    | 0.3   | 16.8  | 9.9   | 285   | 3.13  | 7.4   | 0.4   | 1.1   | 3.8   | 12    | 0.3   | 0.5   | 0.2   | 73    | 0.11  | 0.027 |      |
| JPR 87052 | Soil | 1.4                              | 18.8  | 10.9  | 53    | <0.1  | 16.1  | 10.7  | 472   | 2.93  | 5.4   | 0.6   | 2.8   | 3.7   | 21    | <0.1  | 0.4   | 0.2   | 68    | 0.37  | 0.023 |      |
| JPR 87053 | Soil | 1.4                              | 35.3  | 76.6  | 112   | 0.4   | 18.1  | 22.4  | 817   | 6.12  | 4.1   | 0.8   | 284.5 | 8.5   | 14    | 0.3   | 0.3   | 0.2   | 101   | 0.31  | 0.056 |      |
| JPR 87054 | Soil | 0.9                              | 17.7  | 9.4   | 72    | 0.2   | 18.2  | 12.2  | 804   | 3.18  | 6.6   | 0.5   | 1.9   | 3.4   | 15    | 0.1   | 0.5   | 0.2   | 72    | 0.20  | 0.029 |      |
| JPR 87056 | Soil | 0.9                              | 53.5  | 3.8   | 66    | <0.1  | 20.0  | 23.8  | 754   | 4.33  | 3.9   | 0.6   | <0.5  | 2.1   | 16    | <0.1  | 0.2   | <0.1  | 96    | 0.26  | 0.053 |      |
| JPR 87057 | Soil | 2.7                              | 38.4  | 5.8   | 57    | <0.1  | 19.7  | 13.1  | 342   | 4.71  | 7.7   | 0.7   | 3.3   | 5.1   | 31    | <0.1  | 0.4   | 0.2   | 81    | 0.13  | 0.027 |      |
| JPR 87058 | Soil | 0.8                              | 26.0  | 7.9   | 46    | <0.1  | 19.6  | 8.9   | 260   | 2.61  | 7.6   | 1.0   | 3.2   | 6.7   | 19    | <0.1  | 0.6   | 0.1   | 55    | 0.20  | 0.012 |      |
| JPR 87059 | Soil | 1.6                              | 17.8  | 9.8   | 52    | 0.2   | 17.4  | 9.1   | 304   | 3.04  | 8.4   | 0.6   | 1.6   | 4.0   | 15    | 0.1   | 0.6   | 0.2   | 67    | 0.13  | 0.016 |      |
| JPR 87060 | Soil | 1.5                              | 32.5  | 7.9   | 73    | 0.2   | 15.1  | 14.1  | 748   | 3.67  | 6.2   | 1.7   | 2.1   | 9.5   | 21    | <0.1  | 0.4   | 0.2   | 73    | 0.30  | 0.037 |      |
| JPR 87061 | Soil | 1.4                              | 18.0  | 10.4  | 67    | 0.1   | 13.4  | 9.0   | 379   | 2.94  | 7.7   | 1.1   | 1.9   | 8.1   | 19    | <0.1  | 0.4   | 0.2   | 63    | 0.25  | 0.026 |      |
| JPR 87062 | Soil | 0.9                              | 24.3  | 7.5   | 58    | <0.1  | 17.9  | 10.5  | 397   | 3.19  | 8.6   | 1.1   | 2.8   | 14.4  | 18    | <0.1  | 0.5   | 0.1   | 57    | 0.17  | 0.012 |      |
| JPR 87066 | Soil | 1.2                              | 14.9  | 7.7   | 50    | 0.1   | 13.8  | 7.0   | 295   | 2.57  | 6.2   | 1.5   | 3.7   | 3.6   | 25    | 0.2   | 0.3   | 0.2   | 39    | 0.27  | 0.060 |      |
| JPR 87067 | Soil | 2.0                              | 22.8  | 10.8  | 81    | <0.1  | 21.1  | 13.3  | 888   | 4.08  | 10.6  | 1.7   | 6.5   | 9.5   | 28    | 0.1   | 0.4   | 0.2   | 74    | 0.39  | 0.059 |      |
| JPR 87068 | Soil | 1.4                              | 10.2  | 8.2   | 54    | <0.1  | 10.9  | 5.6   | 311   | 2.83  | 7.3   | 0.5   | 9.3   | 4.4   | 16    | 0.2   | 0.4   | 0.2   | 60    | 0.19  | 0.046 |      |
| JPR 87071 | Soil | 1.2                              | 20.8  | 13.5  | 78    | 0.1   | 16.4  | 8.9   | 512   | 3.14  | 6.2   | 2.2   | 1.3   | 9.6   | 28    | 0.2   | 0.3   | 0.2   | 52    | 0.35  | 0.059 |      |





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**Report Date:** December 03, 2009

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## CERTIFICATE OF ANALYSIS

VAN09005577.1

|           | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|           |                                  | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |
|           |                                  | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |
|           |                                  | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |
| JPR 86928 | Soil                             | 8     | 16    | 1.45  | 749   | 0.326 | <1    | 3.26  | 0.013 | 1.64  | 0.1   | <0.01 | 2.7   | 0.4   | <0.05 | 8     | <0.5  |
| JPR 86929 | Soil                             | 11    | 23    | 0.89  | 516   | 0.189 | <1    | 2.19  | 0.013 | 0.58  | 0.1   | 0.01  | 2.9   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 87015 | Soil                             | 13    | 30    | 0.57  | 182   | 0.082 | 2     | 2.37  | 0.010 | 0.13  | 0.1   | 0.02  | 4.1   | 0.1   | <0.05 | 7     | <0.5  |
| JPR 87016 | Soil                             | 13    | 40    | 0.90  | 305   | 0.105 | <1    | 2.04  | 0.009 | 0.50  | <0.1  | 0.03  | 6.3   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 87017 | Soil                             | 43    | 52    | 1.94  | 315   | 0.175 | <1    | 3.01  | 0.008 | 1.16  | <0.1  | 0.05  | 13.9  | 0.5   | <0.05 | 8     | <0.5  |
| JPR 87018 | Soil                             | 12    | 39    | 0.55  | 192   | 0.095 | 1     | 1.85  | 0.011 | 0.10  | 0.1   | 0.02  | 3.9   | <0.1  | <0.05 | 5     | <0.5  |
| JPR 87019 | Soil                             | 19    | 29    | 0.79  | 174   | 0.119 | 1     | 1.94  | 0.010 | 0.51  | <0.1  | 0.02  | 7.9   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 87020 | Soil                             | 16    | 28    | 0.78  | 265   | 0.126 | 2     | 1.91  | 0.019 | 0.30  | 0.1   | 0.03  | 5.3   | 0.1   | <0.05 | 6     | <0.5  |
| JPR 87021 | Soil                             | 16    | 43    | 1.54  | 272   | 0.160 | 1     | 2.87  | 0.009 | 1.12  | 0.1   | 0.02  | 12.9  | 0.4   | <0.05 | 8     | <0.5  |
| JPR 87022 | Soil                             | 22    | 22    | 0.56  | 179   | 0.106 | 1     | 1.69  | 0.009 | 0.26  | 0.1   | 0.03  | 4.5   | 0.1   | <0.05 | 6     | <0.5  |
| JPR 87023 | Soil                             | 10    | 17    | 0.48  | 133   | 0.124 | <1    | 1.20  | 0.009 | 0.38  | 0.1   | <0.01 | 2.7   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 87024 | Soil                             | 28    | 26    | 0.89  | 229   | 0.148 | <1    | 1.88  | 0.011 | 0.40  | 0.1   | 0.02  | 5.0   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 87025 | Soil                             | 15    | 20    | 0.66  | 176   | 0.130 | 1     | 1.55  | 0.010 | 0.38  | 0.1   | 0.02  | 3.8   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 87033 | Soil                             | 16    | 27    | 0.81  | 261   | 0.133 | 1     | 1.87  | 0.016 | 0.35  | 0.1   | 0.04  | 5.2   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 87045 | Soil                             | 12    | 22    | 0.67  | 206   | 0.131 | <1    | 2.79  | 0.009 | 0.49  | <0.1  | 0.01  | 6.2   | 0.3   | <0.05 | 8     | <0.5  |
| JPR 87050 | Soil                             | 10    | 30    | 0.37  | 184   | 0.069 | <1    | 2.19  | 0.009 | 0.08  | 0.1   | 0.01  | 2.9   | 0.1   | <0.05 | 7     | <0.5  |
| JPR 87052 | Soil                             | 9     | 34    | 0.66  | 262   | 0.121 | 1     | 1.66  | 0.013 | 0.09  | 0.1   | 0.01  | 4.3   | <0.1  | <0.05 | 6     | <0.5  |
| JPR 87053 | Soil                             | 23    | 52    | 2.08  | 321   | 0.175 | <1    | 3.17  | 0.008 | 0.78  | <0.1  | 0.01  | 8.3   | 0.4   | <0.05 | 8     | <0.5  |
| JPR 87054 | Soil                             | 9     | 38    | 0.73  | 261   | 0.121 | <1    | 1.93  | 0.012 | 0.20  | 0.1   | 0.01  | 3.5   | 0.1   | <0.05 | 6     | <0.5  |
| JPR 87056 | Soil                             | 5     | 51    | 2.16  | 468   | 0.268 | <1    | 2.97  | 0.012 | 1.12  | 0.1   | <0.01 | 2.2   | 0.3   | <0.05 | 6     | <0.5  |
| JPR 87057 | Soil                             | 14    | 55    | 1.15  | 384   | 0.156 | <1    | 2.23  | 0.016 | 0.60  | 0.1   | 0.02  | 4.9   | 0.2   | 0.23  | 6     | <0.5  |
| JPR 87058 | Soil                             | 23    | 33    | 0.52  | 194   | 0.087 | <1    | 1.60  | 0.013 | 0.05  | 0.1   | 0.02  | 5.7   | <0.1  | <0.05 | 4     | <0.5  |
| JPR 87059 | Soil                             | 10    | 32    | 0.48  | 186   | 0.093 | 1     | 1.83  | 0.009 | 0.08  | 0.1   | 0.02  | 3.2   | <0.1  | <0.05 | 6     | <0.5  |
| JPR 87060 | Soil                             | 25    | 24    | 0.79  | 266   | 0.129 | <1    | 1.89  | 0.013 | 0.21  | 0.1   | 0.02  | 5.6   | 0.1   | <0.05 | 6     | <0.5  |
| JPR 87061 | Soil                             | 29    | 29    | 0.55  | 227   | 0.090 | 1     | 1.78  | 0.013 | 0.08  | 0.1   | 0.02  | 5.1   | <0.1  | <0.05 | 6     | <0.5  |
| JPR 87062 | Soil                             | 74    | 30    | 0.65  | 163   | 0.115 | <1    | 1.91  | 0.010 | 0.22  | 0.1   | 0.02  | 4.6   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 87066 | Soil                             | 47    | 19    | 0.41  | 223   | 0.049 | <1    | 1.69  | 0.012 | 0.08  | 0.2   | 0.13  | 3.6   | 0.1   | 0.08  | 6     | <0.5  |
| JPR 87067 | Soil                             | 55    | 33    | 0.72  | 347   | 0.078 | 1     | 2.83  | 0.013 | 0.12  | 0.3   | 0.11  | 5.6   | 0.2   | <0.05 | 8     | 0.6   |
| JPR 87068 | Soil                             | 16    | 20    | 0.34  | 121   | 0.070 | 1     | 1.55  | 0.009 | 0.09  | 0.2   | 0.04  | 2.2   | <0.1  | <0.05 | 6     | <0.5  |
| JPR 87071 | Soil                             | 103   | 23    | 0.52  | 276   | 0.059 | <1    | 2.17  | 0.010 | 0.14  | 0.2   | 0.11  | 6.8   | 0.1   | <0.05 | 7     | <0.5  |



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Project: JPR  
Report Date: December 03, 2009

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## CERTIFICATE OF ANALYSIS

VAN09005577.1

|           | Method<br>Analyte<br>Unit<br>MDL | 1DX15      | 1DX15      | 1DX15      | 1DX15    | 1DX15      | 1DX15      | 1DX15      | 1DX15    | 1DX15     | 1DX15      | 1DX15      | 1DX15      | 1DX15      | 1DX15    | 1DX15      | 1DX15      | 1DX15      | 1DX15    | 1DX15     | 1DX15      |
|-----------|----------------------------------|------------|------------|------------|----------|------------|------------|------------|----------|-----------|------------|------------|------------|------------|----------|------------|------------|------------|----------|-----------|------------|
|           |                                  | Mo         | Cu         | Pb         | Zn       | Ag         | Ni         | Co         | Mn       | Fe        | As         | U          | Au         | Th         | Sr       | Cd         | Sb         | Bi         | V        | Ca        | P          |
|           |                                  | ppm<br>0.1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>1 | %<br>0.01 | ppm<br>0.5 | ppm<br>0.1 | ppb<br>0.5 | ppm<br>0.1 | ppm<br>1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>2 | %<br>0.01 | %<br>0.001 |
| JPR 87072 | Soil                             | 1.3        | 14.5       | 13.2       | 64       | 0.3        | 10.8       | 6.3        | 375      | 1.96      | 4.5        | 2.6        | 3.1        | 2.2        | 54       | 0.5        | 0.3        | 0.2        | 28       | 0.86      | 0.100      |
| JPR 87073 | Soil                             | 1.1        | 24.1       | 11.2       | 56       | <0.1       | 18.6       | 8.7        | 389      | 2.47      | 10.1       | 2.2        | 8.3        | 6.0        | 32       | 0.2        | 0.6        | 0.2        | 46       | 0.54      | 0.050      |
| JPR 87074 | Soil                             | 2.0        | 28.1       | 16.1       | 73       | 0.1        | 22.4       | 9.5        | 408      | 2.74      | 10.8       | 2.3        | 5.6        | 5.0        | 31       | 0.4        | 0.5        | 0.2        | 62       | 0.50      | 0.055      |
| JPR 87075 | Soil                             | 1.5        | 30.5       | 18.7       | 93       | 0.1        | 22.8       | 8.7        | 393      | 2.59      | 9.1        | 2.4        | 4.4        | 5.2        | 34       | 0.4        | 0.4        | 0.2        | 59       | 0.63      | 0.086      |
| JPR 87076 | Soil                             | 1.0        | 16.3       | 8.8        | 53       | <0.1       | 14.6       | 8.9        | 294      | 2.35      | 9.8        | 1.0        | 4.6        | 4.5        | 26       | 0.2        | 0.5        | 0.2        | 49       | 0.37      | 0.054      |
| JPR 87077 | Soil                             | 1.4        | 15.7       | 10.0       | 90       | <0.1       | 15.1       | 10.7       | 475      | 3.22      | 8.0        | 0.5        | 7.8        | 4.3        | 21       | 0.2        | 0.3        | 0.1        | 70       | 0.34      | 0.074      |
| JPR 87079 | Soil                             | 0.9        | 19.9       | 10.3       | 53       | 0.1        | 18.4       | 8.2        | 298      | 2.42      | 11.1       | 1.7        | 9.4        | 4.2        | 34       | <0.1       | 0.4        | 0.2        | 49       | 0.45      | 0.057      |
| JPR 87080 | Soil                             | 0.8        | 14.8       | 10.3       | 51       | <0.1       | 14.7       | 6.8        | 255      | 2.26      | 13.6       | 0.9        | 6.5        | 4.5        | 25       | <0.1       | 0.4        | 0.2        | 47       | 0.32      | 0.051      |
| JPR 87081 | Soil                             | 0.8        | 21.3       | 10.2       | 57       | <0.1       | 18.9       | 9.6        | 417      | 2.74      | 12.6       | 1.1        | 5.1        | 4.6        | 29       | <0.1       | 0.4        | 0.2        | 57       | 0.41      | 0.061      |
| JPR 87082 | Soil                             | 0.6        | 24.2       | 9.5        | 58       | <0.1       | 20.8       | 9.5        | 398      | 2.90      | 15.1       | 1.2        | 5.4        | 5.1        | 27       | 0.1        | 0.5        | 0.2        | 60       | 0.36      | 0.059      |
| JPR 87083 | Soil                             | 0.9        | 17.5       | 7.3        | 61       | <0.1       | 18.1       | 11.3       | 382      | 2.98      | 7.7        | 0.6        | 1.6        | 5.4        | 22       | <0.1       | 0.4        | 0.1        | 64       | 0.23      | 0.025      |
| JPR 87084 | Soil                             | 0.7        | 21.5       | 5.9        | 68       | <0.1       | 12.6       | 12.8       | 763      | 3.41      | 5.2        | 1.0        | 4.8        | 7.2        | 21       | <0.1       | 0.3        | 0.1        | 77       | 0.34      | 0.062      |
| JPR 87085 | Soil                             | 0.6        | 19.9       | 4.8        | 75       | <0.1       | 11.7       | 14.3       | 586      | 3.81      | 5.1        | 0.4        | 1.7        | 6.5        | 19       | <0.1       | 0.2        | <0.1       | 80       | 0.32      | 0.067      |
| JPR 87086 | Soil                             | 0.7        | 27.3       | 6.2        | 65       | <0.1       | 12.1       | 11.4       | 497      | 3.15      | 5.8        | 1.0        | 4.0        | 7.1        | 23       | 0.1        | 0.3        | 0.1        | 70       | 0.39      | 0.054      |
| JPR 87087 | Soil                             | 1.0        | 25.3       | 7.8        | 61       | 0.1        | 16.3       | 11.3       | 537      | 2.92      | 6.2        | 2.3        | 6.9        | 7.0        | 37       | 0.1        | 0.4        | 0.2        | 57       | 0.55      | 0.060      |
| JPR 87088 | Soil                             | 0.8        | 24.6       | 7.0        | 64       | <0.1       | 17.4       | 10.2       | 476      | 2.94      | 6.8        | 1.2        | 3.1        | 5.7        | 35       | 0.1        | 0.4        | 0.2        | 61       | 0.51      | 0.058      |
| JPR 87089 | Soil                             | 1.2        | 29.4       | 7.1        | 60       | <0.1       | 17.9       | 11.7       | 504      | 2.95      | 6.6        | 2.2        | 3.6        | 6.6        | 39       | 0.2        | 0.4        | 0.1        | 59       | 0.58      | 0.061      |
| JPR 87092 | Soil                             | 0.9        | 18.7       | 7.0        | 53       | <0.1       | 16.4       | 9.2        | 280      | 2.69      | 7.7        | 0.7        | 1.9        | 5.0        | 25       | <0.1       | 0.5        | 0.1        | 57       | 0.31      | 0.051      |
| JPR 87134 | Soil                             | 0.6        | 19.6       | 5.3        | 72       | <0.1       | 11.0       | 13.0       | 829      | 3.56      | 4.7        | 0.9        | 3.9        | 8.0        | 20       | 0.1        | 0.2        | <0.1       | 81       | 0.36      | 0.066      |
| JPR 87229 | Soil                             | 0.8        | 8.5        | 2.5        | 66       | <0.1       | 8.1        | 10.5       | 613      | 3.96      | 2.7        | 0.9        | 0.6        | 5.3        | 6        | <0.1       | 0.2        | <0.1       | 36       | 0.13      | 0.060      |
| JPR 87776 | Soil                             | 1.1        | 20.3       | 7.9        | 67       | <0.1       | 13.8       | 12.0       | 418      | 3.20      | 6.0        | 1.7        | 4.6        | 6.3        | 26       | <0.1       | 0.4        | 0.1        | 68       | 0.37      | 0.050      |
| JPR 87941 | Soil                             | 1.6        | 60.5       | 7.5        | 86       | 0.2        | 76.4       | 14.0       | 337      | 4.11      | 12.2       | 0.6        | 1.1        | 3.7        | 13       | 0.1        | 0.5        | 0.1        | 132      | 0.15      | 0.057      |
| JPR 87943 | Soil                             | 1.4        | 77.5       | 6.2        | 95       | <0.1       | 81.0       | 18.8       | 387      | 4.00      | 11.6       | 1.0        | 4.3        | 5.6        | 16       | <0.1       | 0.5        | 0.1        | 165      | 0.17      | 0.044      |
| JPR 87944 | Soil                             | 2.6        | 99.7       | 5.7        | 105      | 0.2        | 82.7       | 17.6       | 404      | 5.04      | 10.5       | 0.9        | 1.9        | 5.5        | 19       | <0.1       | 0.3        | 0.2        | 198      | 0.18      | 0.110      |
| JPR 87945 | Soil                             | 2.8        | 138.1      | 5.6        | 123      | <0.1       | 136.1      | 22.7       | 680      | 5.65      | 9.0        | 1.4        | 1.2        | 5.9        | 10       | 0.1        | 0.3        | <0.1       | 226      | 0.13      | 0.073      |
| JPR 87946 | Soil                             | 2.4        | 91.8       | 7.0        | 99       | 0.1        | 68.0       | 12.5       | 315      | 4.21      | 16.8       | 0.8        | 1.9        | 4.4        | 12       | 0.2        | 0.5        | 0.1        | 156      | 0.13      | 0.073      |
| JPR 87947 | Soil                             | 1.4        | 62.2       | 9.3        | 100      | 0.3        | 108.1      | 15.9       | 765      | 4.06      | 5.9        | 1.4        | <0.5       | 5.6        | 29       | 0.2        | 0.2        | 0.1        | 137      | 0.49      | 0.154      |
| JPR 87948 | Soil                             | 1.9        | 50.5       | 8.2        | 86       | 0.4        | 80.5       | 15.6       | 573      | 3.58      | 9.4        | 1.0        | 1.6        | 4.4        | 31       | 0.2        | 0.3        | 0.1        | 102      | 0.39      | 0.069      |
| JPR 87949 | Soil                             | 1.2        | 40.7       | 8.1        | 76       | 0.5        | 41.7       | 11.8       | 341      | 3.25      | 8.7        | 0.6        | 5.2        | 4.0        | 24       | 0.2        | 0.5        | 0.2        | 79       | 0.31      | 0.041      |
| JPR 87950 | Soil                             | 0.8        | 30.2       | 4.3        | 74       | 0.2        | 27.7       | 17.9       | 498      | 4.86      | 3.6        | 0.6        | <0.5       | 5.7        | 29       | <0.1       | 0.2        | <0.1       | 100      | 0.50      | 0.072      |



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**Project:** JPR  
**Report Date:** December 03, 2009

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## CERTIFICATE OF ANALYSIS

VAN09005577.1

|           | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|           |                                  | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |
|           |                                  | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |
|           |                                  | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |
| JPR 87072 | Soil                             | 120   | 15    | 0.30  | 362   | 0.022 | 1     | 1.54  | 0.012 | 0.07  | 0.2   | 0.16  | 4.1   | 0.1   | 0.12  | 4     | 0.7   |
| JPR 87073 | Soil                             | 21    | 24    | 0.47  | 261   | 0.083 | <1    | 1.49  | 0.019 | 0.10  | 0.2   | 0.04  | 4.0   | <0.1  | <0.05 | 5     | 0.9   |
| JPR 87074 | Soil                             | 18    | 27    | 0.50  | 302   | 0.082 | <1    | 1.63  | 0.016 | 0.08  | 0.2   | 0.03  | 3.9   | <0.1  | <0.05 | 5     | <0.5  |
| JPR 87075 | Soil                             | 18    | 25    | 0.51  | 288   | 0.084 | 1     | 1.42  | 0.016 | 0.11  | 0.2   | 0.04  | 3.8   | <0.1  | <0.05 | 5     | 0.7   |
| JPR 87076 | Soil                             | 14    | 24    | 0.46  | 227   | 0.076 | <1    | 1.47  | 0.016 | 0.07  | 0.2   | 0.02  | 2.8   | <0.1  | <0.05 | 4     | <0.5  |
| JPR 87077 | Soil                             | 9     | 22    | 0.81  | 162   | 0.146 | <1    | 1.91  | 0.012 | 0.55  | 0.2   | 0.02  | 2.6   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 87079 | Soil                             | 15    | 25    | 0.46  | 266   | 0.071 | <1    | 1.46  | 0.021 | 0.05  | 0.3   | 0.03  | 3.3   | <0.1  | <0.05 | 5     | <0.5  |
| JPR 87080 | Soil                             | 13    | 22    | 0.47  | 202   | 0.075 | <1    | 1.41  | 0.018 | 0.07  | 0.2   | 0.02  | 2.8   | <0.1  | <0.05 | 4     | <0.5  |
| JPR 87081 | Soil                             | 15    | 26    | 0.60  | 283   | 0.095 | <1    | 1.61  | 0.016 | 0.17  | 0.2   | 0.02  | 3.9   | <0.1  | <0.05 | 5     | <0.5  |
| JPR 87082 | Soil                             | 16    | 28    | 0.66  | 275   | 0.105 | 1     | 1.57  | 0.016 | 0.13  | 0.3   | 0.03  | 4.1   | <0.1  | <0.05 | 5     | <0.5  |
| JPR 87083 | Soil                             | 12    | 27    | 0.79  | 209   | 0.129 | <1    | 1.88  | 0.013 | 0.37  | 0.2   | 0.02  | 3.3   | 0.1   | <0.05 | 5     | <0.5  |
| JPR 87084 | Soil                             | 19    | 19    | 1.04  | 270   | 0.158 | <1    | 2.07  | 0.015 | 0.81  | 0.3   | 0.02  | 4.1   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 87085 | Soil                             | 10    | 15    | 1.19  | 206   | 0.198 | <1    | 2.14  | 0.010 | 1.03  | 0.4   | 0.01  | 1.7   | 0.3   | <0.05 | 6     | <0.5  |
| JPR 87086 | Soil                             | 19    | 18    | 0.99  | 210   | 0.158 | <1    | 1.98  | 0.013 | 0.62  | 0.4   | 0.03  | 3.2   | 0.2   | <0.05 | 5     | <0.5  |
| JPR 87087 | Soil                             | 23    | 22    | 0.71  | 275   | 0.114 | 1     | 1.82  | 0.019 | 0.25  | 0.3   | 0.03  | 3.9   | 0.1   | <0.05 | 5     | 0.7   |
| JPR 87088 | Soil                             | 18    | 23    | 0.77  | 285   | 0.123 | <1    | 1.72  | 0.018 | 0.26  | 0.2   | 0.03  | 3.7   | 0.1   | <0.05 | 5     | <0.5  |
| JPR 87089 | Soil                             | 26    | 24    | 0.65  | 346   | 0.097 | 1     | 1.87  | 0.016 | 0.14  | 0.2   | 0.04  | 4.4   | 0.1   | <0.05 | 5     | 0.5   |
| JPR 87092 | Soil                             | 15    | 25    | 0.56  | 198   | 0.104 | <1    | 1.71  | 0.013 | 0.13  | 0.2   | 0.02  | 3.0   | <0.1  | <0.05 | 5     | <0.5  |
| JPR 87134 | Soil                             | 18    | 17    | 1.16  | 260   | 0.178 | <1    | 2.11  | 0.012 | 0.98  | 0.2   | 0.02  | 4.0   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 87229 | Soil                             | 11    | 11    | 1.17  | 224   | 0.184 | <1    | 2.46  | 0.009 | 0.84  | 0.1   | 0.01  | 11.9  | 0.2   | <0.05 | 11    | <0.5  |
| JPR 87776 | Soil                             | 16    | 23    | 0.81  | 229   | 0.128 | <1    | 1.77  | 0.015 | 0.35  | 0.2   | 0.02  | 4.1   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 87941 | Soil                             | 11    | 119   | 1.20  | 705   | 0.139 | 1     | 2.74  | 0.010 | 0.36  | 0.1   | 0.02  | 5.7   | 0.2   | <0.05 | 9     | <0.5  |
| JPR 87943 | Soil                             | 17    | 133   | 1.42  | 672   | 0.161 | 1     | 2.76  | 0.011 | 0.35  | <0.1  | <0.01 | 7.0   | 0.2   | <0.05 | 9     | 0.6   |
| JPR 87944 | Soil                             | 24    | 195   | 1.86  | 1117  | 0.180 | 1     | 3.21  | 0.020 | 0.89  | <0.1  | <0.01 | 7.7   | 0.3   | 0.16  | 11    | 1.8   |
| JPR 87945 | Soil                             | 20    | 192   | 1.62  | 1037  | 0.205 | 1     | 2.95  | 0.018 | 0.96  | <0.1  | 0.01  | 9.9   | 0.4   | <0.05 | 11    | 1.5   |
| JPR 87946 | Soil                             | 16    | 126   | 1.26  | 612   | 0.149 | <1    | 2.48  | 0.009 | 0.52  | <0.1  | 0.01  | 6.4   | 0.2   | <0.05 | 9     | 1.5   |
| JPR 87947 | Soil                             | 16    | 189   | 1.93  | 1423  | 0.202 | 1     | 3.41  | 0.011 | 0.89  | <0.1  | 0.01  | 8.2   | 0.3   | <0.05 | 12    | 1.2   |
| JPR 87948 | Soil                             | 14    | 106   | 1.24  | 1123  | 0.147 | <1    | 2.51  | 0.010 | 0.55  | <0.1  | 0.02  | 5.2   | 0.2   | <0.05 | 9     | 0.6   |
| JPR 87949 | Soil                             | 11    | 46    | 0.77  | 363   | 0.142 | 2     | 2.09  | 0.010 | 0.32  | 0.1   | 0.01  | 3.5   | 0.2   | <0.05 | 7     | <0.5  |
| JPR 87950 | Soil                             | 9     | 71    | 1.56  | 450   | 0.241 | 1     | 3.30  | 0.018 | 1.19  | 0.2   | <0.01 | 4.4   | 0.4   | <0.05 | 10    | <0.5  |



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Project: JPR  
Report Date: December 03, 2009

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## CERTIFICATE OF ANALYSIS

VAN09005577.1

|           | Method | Analyte | Unit | MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |      |       |
|-----------|--------|---------|------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
|           |        |         |      |     | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca   | P     |
|           |        |         |      |     | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %    | %     |
|           |        |         |      |     | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 0.1   | 2    | 0.01  |
| JPR 87951 | Soil   |         |      |     | 1.8   | 71.7  | 6.3   | 96    | 0.2   | 99.0  | 20.6  | 608   | 4.62  | 5.3   | 0.7   | <0.5  | 3.9   | 20    | 0.2   | 0.3   | 0.1   | 146   | 0.41 | 0.127 |
| JPR 87952 | Soil   |         |      |     | 1.9   | 50.4  | 8.4   | 89    | 0.3   | 41.4  | 11.8  | 651   | 3.34  | 6.1   | 0.6   | 0.7   | 4.4   | 24    | 0.3   | 0.3   | 0.1   | 99    | 0.18 | 0.076 |
| JPR 87953 | Soil   |         |      |     | 0.8   | 20.1  | 8.8   | 59    | <0.1  | 14.0  | 8.4   | 327   | 3.00  | 7.7   | 0.9   | 1.0   | 8.8   | 15    | <0.1  | 0.3   | 0.2   | 57    | 0.16 | 0.045 |
| JPR 88291 | Soil   |         |      |     | 9.2   | 77.4  | 7.9   | 240   | <0.1  | 78.5  | 11.1  | 547   | 3.26  | 1.3   | 4.2   | 1.4   | 4.5   | 34    | 0.5   | 0.1   | 0.2   | 278   | 1.09 | 0.406 |
| JPR 88292 | Soil   |         |      |     | 19.0  | 91.0  | 18.4  | 194   | <0.1  | 64.5  | 10.1  | 457   | 3.17  | 1.0   | 3.0   | 1.3   | 4.7   | 18    | 0.7   | 0.1   | 0.5   | 140   | 0.49 | 0.128 |
| JPR 88294 | Soil   |         |      |     | 0.4   | 21.6  | 1.8   | 80    | <0.1  | 11.9  | 20.8  | 1052  | 4.64  | 2.1   | 0.5   | 1.2   | 8.8   | 31    | <0.1  | 0.2   | <0.1  | 112   | 0.56 | 0.092 |
| JPR 88295 | Soil   |         |      |     | 0.8   | 22.9  | 5.7   | 61    | <0.1  | 4.9   | 14.4  | 805   | 3.67  | 0.6   | 0.4   | 1.0   | 6.5   | 17    | 0.1   | <0.1  | <0.1  | 62    | 0.32 | 0.058 |
| JPR 88296 | Soil   |         |      |     | 0.4   | 25.9  | 23.0  | 67    | <0.1  | 10.9  | 18.8  | 684   | 4.21  | 4.1   | 0.5   | 0.7   | 5.4   | 21    | <0.1  | 0.2   | 0.2   | 94    | 0.26 | 0.045 |
| JPR 88297 | Soil   |         |      |     | 0.5   | 7.0   | 5.4   | 64    | <0.1  | 7.2   | 12.4  | 645   | 3.68  | 4.1   | 0.7   | 0.7   | 8.1   | 16    | <0.1  | 0.2   | <0.1  | 53    | 0.19 | 0.047 |
| JPR 88298 | Soil   |         |      |     | 0.8   | 26.3  | 4.9   | 66    | <0.1  | 9.6   | 16.3  | 716   | 4.63  | 4.5   | 0.4   | 1.1   | 5.0   | 9     | <0.1  | 0.2   | <0.1  | 96    | 0.10 | 0.020 |
| JPR 88299 | Soil   |         |      |     | 1.3   | 14.5  | 8.6   | 53    | <0.1  | 14.7  | 12.2  | 455   | 3.78  | 8.3   | 0.7   | 1.8   | 6.3   | 13    | 0.1   | 0.5   | 0.2   | 72    | 0.13 | 0.060 |
| JPR 88300 | Soil   |         |      |     | 1.9   | 19.5  | 14.7  | 47    | <0.1  | 21.7  | 10.2  | 270   | 3.01  | 9.2   | 0.6   | 2.2   | 5.4   | 13    | 0.1   | 0.6   | 0.2   | 59    | 0.11 | 0.023 |
| JPR 88301 | Soil   |         |      |     | 2.8   | 21.6  | 6.3   | 63    | 0.2   | 17.0  | 13.4  | 575   | 3.45  | 4.8   | 1.2   | 7.6   | 5.4   | 18    | 0.2   | 0.3   | 0.1   | 71    | 0.23 | 0.059 |
| JPR 88302 | Soil   |         |      |     | 1.6   | 20.8  | 8.1   | 73    | <0.1  | 23.9  | 12.3  | 494   | 3.14  | 8.8   | 0.9   | 3.9   | 6.2   | 19    | 0.4   | 0.5   | 0.1   | 59    | 0.20 | 0.034 |
| JPR 88320 | Soil   |         |      |     | 1.1   | 16.8  | 9.6   | 54    | <0.1  | 13.5  | 7.3   | 293   | 2.61  | 7.4   | 1.3   | 2.7   | 8.5   | 14    | <0.1  | 0.3   | 0.2   | 53    | 0.13 | 0.032 |
| JPR 88333 | Soil   |         |      |     | 1.3   | 15.3  | 10.6  | 64    | <0.1  | 15.4  | 9.8   | 409   | 3.18  | 6.8   | 0.8   | 3.0   | 8.9   | 14    | 0.1   | 0.4   | 0.2   | 61    | 0.16 | 0.040 |
| JPR 88343 | Soil   |         |      |     | 0.3   | 13.6  | 3.0   | 96    | <0.1  | 6.4   | 12.9  | 726   | 3.32  | 1.6   | 0.7   | 0.7   | 7.0   | 27    | <0.1  | 0.1   | <0.1  | 73    | 0.50 | 0.118 |
| JPR 88345 | Soil   |         |      |     | 0.6   | 30.3  | 3.3   | 81    | <0.1  | 8.2   | 14.2  | 676   | 3.78  | 2.6   | 0.5   | 2.6   | 4.3   | 16    | <0.1  | 0.1   | <0.1  | 85    | 0.32 | 0.089 |
| JPR 88362 | Soil   |         |      |     | 0.8   | 6.9   | 4.7   | 61    | <0.1  | 7.7   | 15.9  | 635   | 4.10  | 3.6   | 0.3   | <0.5  | 4.4   | 12    | <0.1  | 0.2   | <0.1  | 91    | 0.15 | 0.028 |
| JPR 88367 | Soil   |         |      |     | 1.4   | 19.5  | 7.3   | 59    | <0.1  | 15.1  | 12.6  | 544   | 2.88  | 4.8   | 0.8   | 4.9   | 10.2  | 17    | <0.1  | 0.3   | 0.1   | 54    | 0.20 | 0.035 |
| JPR 88368 | Soil   |         |      |     | 1.3   | 23.4  | 9.7   | 64    | <0.1  | 19.0  | 10.6  | 494   | 2.87  | 7.5   | 1.3   | 2.5   | 10.6  | 22    | <0.1  | 0.5   | 0.1   | 58    | 0.26 | 0.043 |
| JPR 88369 | Soil   |         |      |     | 1.8   | 15.8  | 10.1  | 61    | <0.1  | 14.8  | 10.8  | 445   | 3.23  | 5.9   | 0.8   | 23.4  | 6.9   | 13    | 0.1   | 0.3   | 0.1   | 68    | 0.15 | 0.027 |
| JPR 88371 | Soil   |         |      |     | 2.0   | 15.0  | 7.5   | 66    | <0.1  | 13.1  | 12.3  | 463   | 3.18  | 5.2   | 0.6   | 0.9   | 5.9   | 17    | 0.2   | 0.3   | 0.1   | 69    | 0.18 | 0.044 |
| JPR 88372 | Soil   |         |      |     | 1.7   | 16.8  | 7.9   | 65    | <0.1  | 14.8  | 11.7  | 435   | 3.00  | 5.8   | 0.7   | 1.6   | 6.4   | 17    | 0.1   | 0.3   | 0.1   | 65    | 0.19 | 0.036 |
| JPR 88375 | Soil   |         |      |     | 0.9   | 18.8  | 7.7   | 56    | <0.1  | 13.3  | 9.8   | 362   | 2.49  | 5.7   | 1.4   | 3.3   | 7.9   | 20    | <0.1  | 0.4   | 0.1   | 54    | 0.24 | 0.033 |
| JPR 88399 | Soil   |         |      |     | 1.5   | 18.9  | 11.1  | 47    | <0.1  | 16.3  | 11.5  | 325   | 3.22  | 8.9   | 0.9   | 3.2   | 5.1   | 13    | 0.1   | 0.4   | 0.2   | 70    | 0.13 | 0.024 |
| JPR 88400 | Soil   |         |      |     | 0.9   | 14.4  | 10.5  | 49    | <0.1  | 11.3  | 7.4   | 279   | 3.01  | 7.4   | 0.6   | 2.0   | 3.4   | 12    | 0.1   | 0.3   | 0.2   | 70    | 0.12 | 0.044 |
| JPR 88402 | Soil   |         |      |     | 1.8   | 17.2  | 16.7  | 95    | <0.1  | 11.2  | 20.8  | 1062  | 4.23  | 2.0   | 0.6   | <0.5  | 8.9   | 14    | 0.2   | <0.1  | 0.1   | 86    | 0.25 | 0.074 |
| JPR 88403 | Soil   |         |      |     | 2.1   | 69.8  | 14.4  | 101   | <0.1  | 29.6  | 14.6  | 747   | 4.05  | 4.0   | 2.0   | <0.5  | 11.9  | 12    | 0.3   | 0.2   | 0.1   | 96    | 0.11 | 0.030 |
| JPR 88404 | Soil   |         |      |     | 4.5   | 44.1  | 16.6  | 92    | 0.3   | 28.2  | 7.4   | 208   | 3.21  | 9.1   | 1.7   | 10.6  | 5.6   | 14    | 0.4   | 0.3   | 0.2   | 72    | 0.10 | 0.022 |



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**Project:** JPR  
**Report Date:** December 03, 2009

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## CERTIFICATE OF ANALYSIS

VAN09005577.1

|           | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|           |                                  | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |
|           |                                  | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |
|           |                                  | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |
| JPR 87951 | Soil                             | 10    | 152   | 1.86  | 752   | 0.204 | 1     | 3.17  | 0.011 | 0.71  | <0.1  | 0.01  | 8.1   | 0.3   | <0.05 | 11    | <0.5  |
| JPR 87952 | Soil                             | 18    | 71    | 0.94  | 593   | 0.108 | <1    | 2.01  | 0.013 | 0.46  | 0.1   | 0.01  | 4.7   | 0.2   | 0.13  | 8     | <0.5  |
| JPR 87953 | Soil                             | 16    | 26    | 0.72  | 155   | 0.078 | 1     | 1.76  | 0.009 | 0.16  | 0.1   | 0.02  | 4.0   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 88291 | Soil                             | 11    | 95    | 1.40  | 345   | 0.046 | <1    | 2.05  | 0.006 | 0.25  | 0.1   | 0.01  | 7.2   | 0.1   | <0.05 | 8     | 1.6   |
| JPR 88292 | Soil                             | 14    | 59    | 1.47  | 299   | 0.040 | <1    | 1.62  | 0.006 | 0.45  | <0.1  | <0.01 | 5.9   | 0.2   | <0.05 | 9     | 2.9   |
| JPR 88294 | Soil                             | 12    | 15    | 1.89  | 694   | 0.295 | <1    | 2.68  | 0.010 | 0.98  | <0.1  | <0.01 | 2.8   | 0.3   | <0.05 | 7     | <0.5  |
| JPR 88295 | Soil                             | 24    | 9     | 1.33  | 321   | 0.142 | <1    | 2.18  | 0.009 | 1.20  | <0.1  | <0.01 | 2.4   | 0.3   | <0.05 | 6     | <0.5  |
| JPR 88296 | Soil                             | 9     | 17    | 1.50  | 389   | 0.174 | <1    | 2.54  | 0.007 | 0.76  | <0.1  | <0.01 | 2.9   | 0.2   | <0.05 | 7     | <0.5  |
| JPR 88297 | Soil                             | 14    | 13    | 0.97  | 151   | 0.141 | <1    | 2.52  | 0.007 | 0.78  | <0.1  | <0.01 | 2.4   | 0.3   | <0.05 | 7     | <0.5  |
| JPR 88298 | Soil                             | 18    | 18    | 1.53  | 220   | 0.235 | <1    | 3.13  | 0.011 | 0.99  | 0.2   | <0.01 | 2.6   | 0.3   | <0.05 | 7     | <0.5  |
| JPR 88299 | Soil                             | 10    | 26    | 0.68  | 162   | 0.111 | <1    | 2.23  | 0.008 | 0.19  | 0.1   | 0.02  | 2.5   | 0.1   | <0.05 | 6     | <0.5  |
| JPR 88300 | Soil                             | 8     | 31    | 0.55  | 171   | 0.086 | 1     | 2.14  | 0.009 | 0.09  | 0.1   | 0.04  | 3.1   | <0.1  | <0.05 | 5     | <0.5  |
| JPR 88301 | Soil                             | 13    | 19    | 1.04  | 176   | 0.127 | <1    | 1.97  | 0.009 | 0.44  | <0.1  | 0.02  | 3.3   | 0.2   | <0.05 | 5     | <0.5  |
| JPR 88302 | Soil                             | 18    | 29    | 0.80  | 195   | 0.089 | <1    | 1.96  | 0.010 | 0.15  | 0.1   | 0.02  | 3.8   | 0.1   | <0.05 | 5     | <0.5  |
| JPR 88320 | Soil                             | 29    | 25    | 0.54  | 170   | 0.094 | 1     | 2.00  | 0.008 | 0.14  | 0.2   | 0.02  | 3.0   | 0.2   | <0.05 | 5     | <0.5  |
| JPR 88333 | Soil                             | 13    | 26    | 0.61  | 143   | 0.116 | <1    | 2.04  | 0.009 | 0.21  | 0.1   | 0.01  | 3.1   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 88343 | Soil                             | 18    | 10    | 1.34  | 455   | 0.226 | <1    | 2.17  | 0.009 | 1.11  | 0.2   | <0.01 | 2.5   | 0.3   | <0.05 | 6     | <0.5  |
| JPR 88345 | Soil                             | 11    | 14    | 1.23  | 392   | 0.188 | <1    | 2.29  | 0.009 | 0.95  | 0.1   | <0.01 | 3.3   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 88362 | Soil                             | 5     | 15    | 1.31  | 218   | 0.221 | <1    | 2.59  | 0.007 | 0.96  | 0.1   | <0.01 | 1.9   | 0.3   | <0.05 | 7     | <0.5  |
| JPR 88367 | Soil                             | 17    | 22    | 0.72  | 165   | 0.133 | <1    | 1.72  | 0.009 | 0.34  | <0.1  | <0.01 | 2.9   | 0.2   | <0.05 | 5     | <0.5  |
| JPR 88368 | Soil                             | 25    | 26    | 0.67  | 223   | 0.121 | <1    | 1.72  | 0.012 | 0.21  | 0.1   | 0.02  | 4.7   | 0.2   | <0.05 | 5     | <0.5  |
| JPR 88369 | Soil                             | 13    | 21    | 0.77  | 117   | 0.151 | <1    | 1.89  | 0.007 | 0.31  | <0.1  | 0.01  | 2.4   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 88371 | Soil                             | 9     | 21    | 0.88  | 178   | 0.152 | <1    | 1.96  | 0.008 | 0.46  | <0.1  | <0.01 | 2.3   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 88372 | Soil                             | 10    | 23    | 0.78  | 178   | 0.138 | <1    | 1.79  | 0.010 | 0.35  | 0.1   | <0.01 | 2.4   | 0.2   | <0.05 | 5     | <0.5  |
| JPR 88375 | Soil                             | 21    | 23    | 0.51  | 197   | 0.119 | <1    | 1.39  | 0.013 | 0.23  | 0.1   | 0.02  | 4.4   | 0.1   | <0.05 | 4     | <0.5  |
| JPR 88399 | Soil                             | 12    | 31    | 0.64  | 183   | 0.114 | 1     | 2.02  | 0.010 | 0.24  | 0.1   | 0.02  | 3.4   | 0.1   | <0.05 | 6     | <0.5  |
| JPR 88400 | Soil                             | 10    | 23    | 0.58  | 153   | 0.121 | <1    | 1.80  | 0.011 | 0.21  | <0.1  | 0.02  | 2.4   | <0.1  | <0.05 | 7     | <0.5  |
| JPR 88402 | Soil                             | 22    | 20    | 2.00  | 205   | 0.296 | <1    | 2.97  | 0.008 | 1.33  | <0.1  | <0.01 | 0.9   | 0.4   | <0.05 | 7     | <0.5  |
| JPR 88403 | Soil                             | 77    | 42    | 1.60  | 270   | 0.215 | <1    | 2.94  | 0.007 | 0.99  | <0.1  | <0.01 | 6.7   | 0.5   | <0.05 | 9     | <0.5  |
| JPR 88404 | Soil                             | 16    | 27    | 0.66  | 133   | 0.078 | <1    | 1.55  | 0.007 | 0.15  | <0.1  | 0.02  | 4.5   | 0.2   | <0.05 | 5     | 0.7   |



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Project: JPR

Report Date: December 03, 2009

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## QUALITY CONTROL REPORT

VAN09005577.1

|                 | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                 |                                  | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P     |
|                 |                                  | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %     |
|                 |                                  | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  | 0.001 |
| Pulp Duplicates |                                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| JPR 80184       | Soil                             | 0.8   | 17.9  | 6.0   | 106   | <0.1  | 6.4   | 15.7  | 1003  | 4.77  | 1.6   | 1.1   | 2.6   | 17.5  | 19    | <0.1  | 0.2   | <0.1  | 83    | 0.31  | 0.060 |
| REP JPR 80184   | QC                               | 0.8   | 18.0  | 5.6   | 106   | <0.1  | 6.2   | 15.6  | 931   | 4.68  | 1.6   | 1.0   | 2.2   | 16.4  | 18    | <0.1  | 0.2   | <0.1  | 80    | 0.31  | 0.060 |
| JPR 80488       | Soil                             | 2.7   | 26.7  | 7.6   | 80    | <0.1  | 8.1   | 9.2   | 564   | 4.05  | 4.7   | 1.1   | 1.2   | 18.3  | 12    | <0.1  | 0.3   | 0.2   | 53    | 0.12  | 0.028 |
| REP JPR 80488   | QC                               | 2.7   | 26.0  | 7.8   | 80    | <0.1  | 7.8   | 8.7   | 532   | 3.85  | 4.9   | 1.1   | 1.3   | 17.7  | 13    | <0.1  | 0.3   | 0.2   | 51    | 0.11  | 0.027 |
| JPR 80499       | Soil                             | 2.8   | 21.0  | 8.9   | 67    | <0.1  | 13.1  | 12.2  | 545   | 3.32  | 5.4   | 1.0   | 3.7   | 16.0  | 17    | <0.1  | 0.4   | 0.1   | 58    | 0.18  | 0.025 |
| REP JPR 80499   | QC                               | 2.6   | 21.0  | 9.3   | 68    | <0.1  | 13.1  | 12.6  | 572   | 3.46  | 5.2   | 1.0   | 3.4   | 15.7  | 17    | <0.1  | 0.4   | 0.1   | 58    | 0.18  | 0.025 |
| JPR 80580       | Soil                             | 0.8   | 30.8  | 9.4   | 62    | 0.1   | 23.4  | 10.5  | 368   | 2.85  | 9.5   | 1.1   | 2.3   | 4.1   | 33    | 0.3   | 0.7   | 0.2   | 55    | 0.47  | 0.052 |
| REP JPR 80580   | QC                               | 1.0   | 31.8  | 9.7   | 62    | <0.1  | 22.6  | 10.6  | 383   | 2.90  | 9.5   | 1.2   | 2.5   | 4.1   | 32    | 0.2   | 0.8   | 0.2   | 53    | 0.49  | 0.052 |
| JPR 80972       | Soil                             | 1.1   | 16.8  | 8.1   | 63    | <0.1  | 14.9  | 11.1  | 444   | 2.87  | 5.8   | 1.1   | 21.7  | 5.5   | 28    | 0.2   | 0.4   | 0.2   | 59    | 0.41  | 0.070 |
| REP JPR 80972   | QC                               | 1.1   | 16.7  | 7.6   | 63    | <0.1  | 13.9  | 11.0  | 438   | 2.82  | 5.3   | 1.2   | 7.5   | 5.3   | 27    | 0.1   | 0.4   | 0.1   | 57    | 0.42  | 0.067 |
| JPR 82238       | Soil                             | 1.8   | 112.1 | 5.7   | 87    | <0.1  | 65.3  | 19.1  | 903   | 4.88  | 2.2   | 1.4   | 29.1  | 8.9   | 24    | <0.1  | 0.2   | 2.3   | 107   | 0.62  | 0.232 |
| REP JPR 82238   | QC                               | 1.8   | 107.8 | 5.6   | 88    | <0.1  | 64.8  | 18.7  | 904   | 4.90  | 2.0   | 1.4   | 22.5  | 8.8   | 24    | <0.1  | 0.2   | 2.3   | 109   | 0.59  | 0.228 |
| JPR 82241       | Soil                             | 2.5   | 119.7 | 6.8   | 83    | <0.1  | 98.8  | 24.2  | 1159  | 4.83  | 4.4   | 1.0   | 19.6  | 6.1   | 9     | <0.1  | 0.3   | <0.1  | 175   | 0.14  | 0.045 |
| REP JPR 82241   | QC                               | 2.5   | 122.8 | 7.0   | 88    | <0.1  | 98.5  | 24.4  | 1166  | 4.87  | 4.4   | 1.1   | 16.7  | 6.2   | 9     | <0.1  | 0.2   | <0.1  | 174   | 0.14  | 0.045 |
| JPR 82761       | Soil                             | 1.1   | 14.4  | 10.0  | 42    | <0.1  | 17.3  | 9.1   | 245   | 2.69  | 8.3   | 0.8   | 2.1   | 3.9   | 11    | <0.1  | 0.4   | 0.2   | 59    | 0.13  | 0.025 |
| REP JPR 82761   | QC                               | 1.1   | 15.0  | 9.6   | 45    | <0.1  | 18.6  | 9.3   | 263   | 2.82  | 8.6   | 0.8   | 2.2   | 3.8   | 11    | <0.1  | 0.4   | 0.2   | 60    | 0.13  | 0.026 |
| JPR 82846       | Soil                             | 0.7   | 16.1  | 6.0   | 46    | <0.1  | 16.9  | 8.8   | 306   | 2.26  | 5.7   | 0.8   | 1.5   | 4.7   | 23    | 0.1   | 0.5   | 0.1   | 43    | 0.36  | 0.041 |
| REP JPR 82846   | QC                               | 0.7   | 16.6  | 6.5   | 45    | <0.1  | 16.7  | 8.9   | 306   | 2.22  | 5.8   | 0.8   | 1.5   | 4.8   | 23    | 0.1   | 0.5   | 0.1   | 43    | 0.38  | 0.041 |
| JPR 86617       | Soil                             | 4.4   | 17.5  | 9.5   | 76    | 0.2   | 15.6  | 27.6  | 1260  | 3.48  | 6.1   | 1.4   | 1.4   | 4.4   | 34    | 0.2   | 0.3   | 0.2   | 73    | 0.54  | 0.061 |
| REP JPR 86617   | QC                               | 4.1   | 17.4  | 9.1   | 75    | 0.2   | 15.0  | 26.0  | 1246  | 3.26  | 6.1   | 1.4   | 2.1   | 4.2   | 33    | 0.3   | 0.3   | 0.2   | 68    | 0.51  | 0.064 |
| JPR 86747       | Soil                             | 9.7   | 65.1  | 12.5  | 77    | 0.1   | 36.0  | 14.4  | 566   | 3.24  | 6.8   | 1.7   | 5.4   | 3.7   | 26    | 0.3   | 0.3   | 0.6   | 84    | 0.28  | 0.106 |
| REP JPR 86747   | QC                               | 9.8   | 67.9  | 13.2  | 80    | 0.1   | 37.2  | 15.1  | 560   | 3.32  | 6.8   | 1.7   | 5.1   | 3.8   | 25    | 0.3   | 0.3   | 0.6   | 84    | 0.27  | 0.106 |
| JPR 87016       | Soil                             | 1.5   | 20.8  | 9.4   | 77    | 0.2   | 18.1  | 16.1  | 880   | 4.08  | 5.0   | 0.9   | <0.5  | 7.2   | 24    | 0.1   | 0.6   | 0.2   | 81    | 0.31  | 0.047 |
| REP JPR 87016   | QC                               | 1.6   | 20.7  | 9.4   | 78    | 0.2   | 18.6  | 16.2  | 871   | 4.12  | 4.8   | 0.9   | 2.9   | 7.4   | 23    | 0.1   | 0.6   | 0.2   | 82    | 0.31  | 0.045 |
| JPR 87059       | Soil                             | 1.6   | 17.8  | 9.8   | 52    | 0.2   | 17.4  | 9.1   | 304   | 3.04  | 8.4   | 0.6   | 1.6   | 4.0   | 15    | 0.1   | 0.6   | 0.2   | 67    | 0.13  | 0.016 |
| REP JPR 87059   | QC                               | 1.6   | 18.2  | 9.5   | 51    | 0.2   | 17.9  | 8.6   | 301   | 3.05  | 8.5   | 0.6   | 1.4   | 3.9   | 15    | <0.1  | 0.6   | 0.2   | 67    | 0.14  | 0.017 |
| JPR 87067       | Soil                             | 2.0   | 22.8  | 10.8  | 81    | <0.1  | 21.1  | 13.3  | 888   | 4.08  | 10.6  | 1.7   | 6.5   | 9.5   | 28    | 0.1   | 0.4   | 0.2   | 74    | 0.39  | 0.059 |
| REP JPR 87067   | QC                               | 1.9   | 23.4  | 11.0  | 87    | <0.1  | 22.3  | 14.0  | 890   | 4.14  | 11.1  | 1.7   | 5.2   | 9.6   | 29    | 0.2   | 0.4   | 0.2   | 71    | 0.39  | 0.066 |



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## QUALITY CONTROL REPORT

VAN09005577.1

|                 | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                 |                                  | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |
|                 |                                  | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |
|                 |                                  | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |
| Pulp Duplicates |                                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| JPR 80184       | Soil                             | 36    | 8     | 1.36  | 273   | 0.155 | <1    | 2.73  | 0.010 | 1.09  | <0.1  | <0.01 | 7.9   | 0.4   | <0.05 | 8     | <0.5  |
| REP JPR 80184   | QC                               | 35    | 8     | 1.29  | 273   | 0.153 | <1    | 2.58  | 0.010 | 1.05  | <0.1  | <0.01 | 7.9   | 0.4   | <0.05 | 8     | <0.5  |
| JPR 80488       | Soil                             | 17    | 17    | 0.73  | 150   | 0.127 | <1    | 2.19  | 0.009 | 0.69  | 0.2   | <0.01 | 4.6   | 0.3   | <0.05 | 7     | <0.5  |
| REP JPR 80488   | QC                               | 17    | 16    | 0.69  | 140   | 0.123 | <1    | 2.12  | 0.008 | 0.69  | 0.2   | <0.01 | 4.2   | 0.3   | <0.05 | 7     | <0.5  |
| JPR 80499       | Soil                             | 25    | 21    | 0.75  | 183   | 0.165 | <1    | 2.07  | 0.009 | 0.61  | 0.1   | <0.01 | 3.6   | 0.3   | <0.05 | 7     | <0.5  |
| REP JPR 80499   | QC                               | 25    | 21    | 0.72  | 188   | 0.170 | <1    | 2.04  | 0.009 | 0.60  | 0.1   | 0.01  | 3.7   | 0.4   | <0.05 | 7     | <0.5  |
| JPR 80580       | Soil                             | 14    | 27    | 0.57  | 366   | 0.082 | 1     | 1.59  | 0.020 | 0.05  | 0.2   | 0.03  | 4.0   | <0.1  | <0.05 | 5     | 0.6   |
| REP JPR 80580   | QC                               | 14    | 28    | 0.57  | 366   | 0.089 | 1     | 1.63  | 0.020 | 0.05  | 0.2   | 0.04  | 3.9   | <0.1  | <0.05 | 5     | <0.5  |
| JPR 80972       | Soil                             | 17    | 23    | 0.72  | 288   | 0.116 | 1     | 1.70  | 0.014 | 0.24  | 0.3   | 0.09  | 3.2   | 0.1   | <0.05 | 5     | 0.6   |
| REP JPR 80972   | QC                               | 16    | 22    | 0.70  | 274   | 0.116 | <1    | 1.66  | 0.014 | 0.23  | 0.3   | 0.08  | 3.3   | 0.1   | <0.05 | 5     | <0.5  |
| JPR 82238       | Soil                             | 71    | 78    | 1.65  | 480   | 0.175 | <1    | 3.09  | 0.009 | 0.78  | <0.1  | <0.01 | 5.7   | 0.4   | <0.05 | 13    | 0.5   |
| REP JPR 82238   | QC                               | 72    | 77    | 1.64  | 487   | 0.183 | <1    | 3.07  | 0.009 | 0.78  | <0.1  | <0.01 | 5.8   | 0.4   | <0.05 | 13    | 0.8   |
| JPR 82241       | Soil                             | 21    | 105   | 1.16  | 860   | 0.177 | <1    | 2.44  | 0.006 | 0.76  | <0.1  | <0.01 | 9.3   | 0.3   | <0.05 | 9     | 0.9   |
| REP JPR 82241   | QC                               | 21    | 107   | 1.20  | 877   | 0.174 | <1    | 2.49  | 0.007 | 0.76  | <0.1  | <0.01 | 9.4   | 0.3   | <0.05 | 9     | 0.6   |
| JPR 82761       | Soil                             | 11    | 33    | 0.44  | 149   | 0.054 | <1    | 1.89  | 0.007 | 0.04  | 0.1   | 0.03  | 2.9   | <0.1  | <0.05 | 6     | <0.5  |
| REP JPR 82761   | QC                               | 11    | 36    | 0.46  | 144   | 0.057 | <1    | 1.99  | 0.008 | 0.04  | 0.1   | 0.03  | 3.0   | 0.1   | <0.05 | 6     | <0.5  |
| JPR 82846       | Soil                             | 17    | 23    | 0.41  | 201   | 0.066 | <1    | 1.30  | 0.012 | 0.06  | 0.2   | 0.02  | 3.4   | <0.1  | <0.05 | 4     | 0.5   |
| REP JPR 82846   | QC                               | 17    | 23    | 0.41  | 204   | 0.065 | <1    | 1.33  | 0.012 | 0.06  | 0.1   | 0.02  | 3.4   | <0.1  | <0.05 | 4     | 0.7   |
| JPR 86617       | Soil                             | 21    | 23    | 0.79  | 318   | 0.103 | 1     | 1.69  | 0.017 | 0.22  | 0.2   | 0.04  | 3.2   | 0.1   | <0.05 | 5     | 0.6   |
| REP JPR 86617   | QC                               | 21    | 22    | 0.77  | 309   | 0.096 | 1     | 1.74  | 0.015 | 0.21  | 0.2   | 0.04  | 3.1   | 0.2   | <0.05 | 6     | 0.9   |
| JPR 86747       | Soil                             | 16    | 29    | 0.66  | 186   | 0.091 | <1    | 1.58  | 0.010 | 0.18  | 0.2   | 0.01  | 2.9   | 0.2   | 0.07  | 5     | 0.6   |
| REP JPR 86747   | QC                               | 16    | 29    | 0.68  | 194   | 0.091 | <1    | 1.58  | 0.009 | 0.17  | 0.2   | 0.02  | 2.9   | 0.1   | 0.06  | 6     | 1.0   |
| JPR 87016       | Soil                             | 13    | 40    | 0.90  | 305   | 0.105 | <1    | 2.04  | 0.009 | 0.50  | <0.1  | 0.03  | 6.3   | 0.2   | <0.05 | 6     | <0.5  |
| REP JPR 87016   | QC                               | 14    | 41    | 0.86  | 307   | 0.110 | <1    | 2.04  | 0.009 | 0.52  | <0.1  | 0.03  | 6.1   | 0.2   | <0.05 | 6     | <0.5  |
| JPR 87059       | Soil                             | 10    | 32    | 0.48  | 186   | 0.093 | 1     | 1.83  | 0.009 | 0.08  | 0.1   | 0.02  | 3.2   | <0.1  | <0.05 | 6     | <0.5  |
| REP JPR 87059   | QC                               | 10    | 32    | 0.48  | 181   | 0.094 | <1    | 1.87  | 0.009 | 0.08  | 0.1   | 0.02  | 3.4   | <0.1  | <0.05 | 6     | <0.5  |
| JPR 87067       | Soil                             | 55    | 33    | 0.72  | 347   | 0.078 | 1     | 2.83  | 0.013 | 0.12  | 0.3   | 0.11  | 5.6   | 0.2   | <0.05 | 8     | 0.6   |
| REP JPR 87067   | QC                               | 55    | 33    | 0.72  | 353   | 0.078 | <1    | 2.98  | 0.014 | 0.11  | 0.2   | 0.12  | 5.5   | 0.2   | <0.05 | 9     | <0.5  |



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Project: JPR

Report Date: December 03, 2009

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## QUALITY CONTROL REPORT

VAN09005577.1

|                     |          | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15  |
|---------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
|                     |          | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P      |
|                     |          | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %      |
|                     |          | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  | 0.001  |
| JPR 87086           | Soil     | 0.7   | 27.3  | 6.2   | 65    | <0.1  | 12.1  | 11.4  | 497   | 3.15  | 5.8   | 1.0   | 4.0   | 7.1   | 23    | 0.1   | 0.3   | 0.1   | 70    | 0.39  | 0.054  |
| REP JPR 87086       | QC       | 0.7   | 29.4  | 6.2   | 67    | <0.1  | 14.1  | 12.3  | 540   | 3.38  | 5.9   | 1.0   | 6.7   | 7.5   | 24    | 0.1   | 0.3   | 0.1   | 72    | 0.40  | 0.050  |
| JPR 88297           | Soil     | 0.5   | 7.0   | 5.4   | 64    | <0.1  | 7.2   | 12.4  | 645   | 3.68  | 4.1   | 0.7   | 0.7   | 8.1   | 16    | <0.1  | 0.2   | <0.1  | 53    | 0.19  | 0.047  |
| REP JPR 88297       | QC       | 0.5   | 7.1   | 5.0   | 65    | <0.1  | 6.6   | 12.5  | 613   | 3.53  | 3.8   | 0.6   | 0.7   | 8.2   | 15    | <0.1  | 0.1   | <0.1  | 50    | 0.20  | 0.043  |
| Reference Materials |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |
| STD DS7             | Standard | 21.1  | 114.3 | 75.2  | 416   | 0.9   | 59.0  | 9.8   | 609   | 2.43  | 52.2  | 5.3   | 70.6  | 4.8   | 74    | 6.4   | 6.3   | 4.9   | 84    | 1.00  | 0.080  |
| STD DS7             | Standard | 19.2  | 103.3 | 66.4  | 382   | 0.8   | 54.4  | 8.4   | 576   | 2.22  | 52.6  | 4.8   | 60.9  | 4.4   | 71    | 6.4   | 6.5   | 4.7   | 79    | 0.90  | 0.077  |
| STD DS7             | Standard | 21.3  | 110.8 | 69.2  | 405   | 0.8   | 53.0  | 9.1   | 568   | 2.18  | 52.9  | 5.2   | 56.5  | 4.4   | 72    | 6.8   | 6.4   | 4.6   | 79    | 0.93  | 0.080  |
| STD DS7             | Standard | 21.5  | 109.0 | 67.5  | 404   | 0.8   | 55.0  | 9.2   | 584   | 2.34  | 51.6  | 4.9   | 84.9  | 4.3   | 76    | 6.7   | 6.1   | 4.8   | 81    | 0.96  | 0.079  |
| STD DS7             | Standard | 21.7  | 117.3 | 72.3  | 410   | 0.9   | 59.6  | 10.0  | 601   | 2.36  | 54.2  | 5.3   | 72.1  | 4.8   | 76    | 6.8   | 6.2   | 5.0   | 85    | 0.99  | 0.093  |
| STD DS7             | Standard | 20.2  | 94.7  | 57.8  | 379   | 0.8   | 53.8  | 8.7   | 580   | 2.21  | 44.5  | 4.2   | 55.3  | 3.8   | 72    | 6.2   | 5.5   | 4.1   | 70    | 0.95  | 0.072  |
| STD DS7             | Standard | 18.9  | 105.8 | 70.0  | 401   | 0.8   | 58.2  | 8.8   | 585   | 2.34  | 51.7  | 5.0   | 63.2  | 4.5   | 77    | 6.3   | 6.0   | 4.8   | 78    | 0.97  | 0.080  |
| STD DS7             | Standard | 20.8  | 100.0 | 66.1  | 392   | 0.8   | 51.9  | 8.7   | 576   | 2.29  | 51.2  | 4.7   | 69.4  | 4.5   | 72    | 5.6   | 5.8   | 4.7   | 82    | 0.99  | 0.079  |
| STD DS7             | Standard | 21.5  | 117.3 | 70.8  | 408   | 0.9   | 56.8  | 9.3   | 604   | 2.35  | 53.1  | 5.2   | 66.3  | 4.8   | 73    | 6.5   | 6.4   | 5.0   | 84    | 0.93  | 0.081  |
| STD DS7 Expected    |          | 20.5  | 109   | 70.6  | 411   | 0.9   | 56    | 9.7   | 627   | 2.39  | 48.2  | 4.9   | 70    | 4.4   | 69    | 6.4   | 4.6   | 4.5   | 84    | 0.93  | 0.08   |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | 0.01  | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |





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Report Date: December 03, 2009

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## QUALITY CONTROL REPORT

VAN09005577.1

|                     |          | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15  | 1DX15 | 1DX15 | 1DX15  | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---------------------|----------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
|                     |          | La    | Cr    | Mg    | Ba    | Ti     | B     | Al    | Na     | K     | W     | Hg    | Sc    | Ti    | S     | Ga    |
|                     |          | ppm   | ppm   | %     | ppm   | %      | ppm   | %     | %      | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   |
|                     |          | 1     | 1     | 0.01  | 1     | 0.001  | 1     | 0.01  | 0.001  | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     |
| JPR 87086           | Soil     | 19    | 18    | 0.99  | 210   | 0.158  | <1    | 1.98  | 0.013  | 0.62  | 0.4   | 0.03  | 3.2   | 0.2   | <0.05 | 5     |
| REP JPR 87086       | QC       | 21    | 19    | 0.95  | 219   | 0.168  | <1    | 1.97  | 0.015  | 0.61  | 0.3   | 0.02  | 3.3   | 0.2   | <0.05 | 6     |
| JPR 88297           | Soil     | 14    | 13    | 0.97  | 151   | 0.141  | <1    | 2.52  | 0.007  | 0.78  | <0.1  | <0.01 | 2.4   | 0.3   | <0.05 | 7     |
| REP JPR 88297       | QC       | 14    | 13    | 0.97  | 155   | 0.136  | <1    | 2.44  | 0.007  | 0.78  | <0.1  | <0.01 | 2.3   | 0.3   | <0.05 | 7     |
| Reference Materials |          |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |
| STD DS7             | Standard | 13    | 198   | 0.93  | 381   | 0.124  | 41    | 0.94  | 0.090  | 0.41  | 4.3   | 0.20  | 2.5   | 4.4   | 0.21  | 5     |
| STD DS7             | Standard | 12    | 181   | 0.96  | 399   | 0.118  | 42    | 0.94  | 0.088  | 0.39  | 3.9   | 0.20  | 2.3   | 4.2   | 0.20  | 4     |
| STD DS7             | Standard | 12    | 185   | 0.94  | 397   | 0.123  | 41    | 0.94  | 0.093  | 0.40  | 3.9   | 0.20  | 2.3   | 4.2   | 0.17  | 4     |
| STD DS7             | Standard | 13    | 187   | 1.01  | 375   | 0.126  | 41    | 1.01  | 0.101  | 0.40  | 3.7   | 0.18  | 2.5   | 4.1   | 0.21  | 4     |
| STD DS7             | Standard | 13    | 185   | 1.04  | 390   | 0.128  | 40    | 1.03  | 0.099  | 0.42  | 4.0   | 0.20  | 2.5   | 4.3   | 0.23  | 5     |
| STD DS7             | Standard | 12    | 192   | 0.94  | 363   | 0.107  | 35    | 0.93  | 0.088  | 0.39  | 3.7   | 0.17  | 2.1   | 3.9   | 0.21  | 4     |
| STD DS7             | Standard | 13    | 181   | 1.00  | 380   | 0.114  | 35    | 0.95  | 0.092  | 0.39  | 3.8   | 0.20  | 2.2   | 4.4   | 0.21  | 4     |
| STD DS7             | Standard | 13    | 194   | 0.96  | 383   | 0.125  | 39    | 0.95  | 0.097  | 0.40  | 3.8   | 0.18  | 2.4   | 4.2   | 0.20  | 5     |
| STD DS7             | Standard | 14    | 198   | 0.96  | 386   | 0.125  | 37    | 0.95  | 0.092  | 0.40  | 3.8   | 0.20  | 2.6   | 4.2   | 0.20  | 4     |
| STD DS7 Expected    |          | 12    | 179   | 1.05  | 370   | 0.124  | 39    | 0.959 | 0.089  | 0.44  | 3.4   | 0.2   | 2.5   | 4.2   | 0.19  | 5     |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    |