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To: VESTERHEIM GEOSCIENCE PLC  
 120 GREENWOOD LANE  
 DULUTH MN 55803  
 USA

Page: 1  
 Total # Pages: 4 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 10-NOV-2018  
 This copy reported on  
 30-NOV-2018  
 Account: VGPMEBKL

**CERTIFICATE WH18246286**

Project: WHDM BIG ALEX  
 P.O. No.: wh1816  
 This report is for 82 Sediment samples submitted to our lab in Whitehorse, YT, Canada on 1-OCT-2018.  
 The following have access to data associated with this certificate:

|             |             |
|-------------|-------------|
| RODNEY HUNT | PHIL LARSON |
|-------------|-------------|

| SAMPLE PREPARATION |                                |
|--------------------|--------------------------------|
| ALS CODE           | DESCRIPTION                    |
| WEI-21             | Received Sample Weight         |
| LOG-21             | Sample logging - ClientBarCode |
| CRU-QC             | Crushing QC Test               |
| PUL-QC             | Pulverizing QC Test            |
| CRU-31             | Fine crushing - 70% <2mm       |
| SPL-21             | Split sample - riffle splitter |
| PUL-31             | Pulverize split to 85% <75 um  |

| ANALYTICAL PROCEDURES |                             |         |
|-----------------------|-----------------------------|---------|
| ALS CODE              | DESCRIPTION                 |         |
| ME-MS61               | 48 element four acid ICP-MS |         |
| Au-ICP22              | Au 50g FA ICP-AES finish    | ICP-AES |

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH18246286**

| Sample Description | Method  | WEI-21    | Au-ICP22 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 |
|--------------------|---------|-----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                    | Analyte | Recvd Wt. | Au       | Ag      | Al      | As      | Ba      | Be      | Bi      | Ca      | Cd      | Ce      | Co      | Cr      | Cs      | Cu      |
| Units              |         | kg        | ppm      | ppm     | %       | ppm     | ppm     | ppm     | ppm     | %       | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| LOD                |         | 0.02      | 0.001    | 0.01    | 0.01    | 0.2     | 10      | 0.05    | 0.01    | 0.01    | 0.02    | 0.01    | 0.1     | 1       | 0.05    | 0.2     |
| V999298            |         | 0.22      | 0.438    | 0.11    | 2.60    | 11.7    | 440     | 0.90    | 0.14    | 0.53    | 0.23    | 41.0    | 6.8     | 316     | 1.72    | 14.2    |
| V999299            |         | 0.69      | 0.406    | 0.07    | 2.69    | 8.9     | 290     | 0.86    | 0.14    | 0.30    | 0.06    | 56.3    | 6.7     | 232     | 1.42    | 31.8    |
| V999300            |         | 0.63      | 0.001    | 0.11    | 2.81    | 7.5     | 300     | 0.68    | 0.12    | 0.28    | 0.08    | 37.7    | 7.5     | 139     | 1.45    | 13.2    |
| V999301            |         | 0.63      | 1.195    | 0.09    | 2.73    | 11.7    | 280     | 0.79    | 0.23    | 0.33    | 0.11    | 37.4    | 7.3     | 156     | 1.64    | 14.3    |
| V999302            |         | 0.56      | 0.001    | 0.10    | 2.72    | 15.5    | 290     | 0.83    | 0.20    | 0.39    | 0.09    | 34.2    | 8.1     | 118     | 1.78    | 12.8    |
| V999303            |         | 0.23      | <0.001   | 0.03    | 2.41    | 3.7     | 40      | 0.38    | <0.01   | 0.02    | <0.02   | 35.7    | 0.5     | 18      | 0.13    | 1.3     |
| V999304            |         | 0.51      | 0.349    | 0.18    | 2.56    | 12.3    | 300     | 0.71    | 0.17    | 0.34    | 0.15    | 31.7    | 9.0     | 159     | 1.78    | 156.5   |
| V999305            |         | 0.35      | <0.001   | 0.05    | 2.41    | 8.0     | 270     | 0.63    | 0.13    | 0.24    | 0.08    | 29.4    | 4.9     | 89      | 1.04    | 14.5    |
| V999306            |         | 0.66      | 0.234    | 0.07    | 2.51    | 8.1     | 250     | 0.60    | 0.12    | 0.25    | 0.10    | 53.6    | 9.1     | 90      | 1.16    | 14.8    |
| V999307            |         | 0.62      | <0.001   | 0.07    | 2.62    | 7.4     | 280     | 0.60    | 0.15    | 0.26    | 0.02    | 44.2    | 15.4    | 144     | 1.22    | 16.2    |
| V999308            |         | 0.67      | 1.970    | 0.08    | 2.72    | 9.5     | 270     | 0.62    | 0.25    | 0.30    | 0.09    | 42.4    | 8.6     | 124     | 1.33    | 14.6    |
| V999309            |         | 0.67      | 0.107    | 0.08    | 2.57    | 13.9    | 270     | 0.60    | 0.18    | 0.27    | 0.08    | 36.7    | 12.1    | 272     | 1.39    | 15.2    |
| V999310            |         | 0.65      | 3.27     | 0.11    | 2.72    | 21.0    | 290     | 0.73    | 0.24    | 0.31    | 0.16    | 41.2    | 27.5    | 362     | 1.52    | 20.9    |
| V999311            |         | 0.56      | 0.003    | 0.07    | 2.61    | 7.7     | 320     | 0.74    | 0.17    | 0.18    | 0.11    | 46.0    | 4.9     | 53      | 1.42    | 10.9    |
| V999312            |         | 0.71      | 0.404    | 0.06    | 2.70    | 9.9     | 270     | 0.69    | 0.25    | 0.26    | 0.12    | 57.0    | 8.1     | 74      | 1.44    | 17.4    |
| V999313            |         | 0.61      | 0.124    | 0.08    | 2.92    | 14.2    | 290     | 0.92    | 0.21    | 0.37    | 0.14    | 66.9    | 10.6    | 172     | 1.57    | 43.4    |
| V999314            |         | 0.58      | 0.446    | 0.08    | 2.96    | 15.9    | 290     | 0.80    | 0.24    | 0.55    | 0.10    | 43.1    | 10.0    | 194     | 1.74    | 19.0    |
| V999315            |         | 0.67      | 0.456    | 0.08    | 2.91    | 13.5    | 290     | 0.86    | 0.19    | 0.52    | 0.08    | 35.3    | 7.0     | 91      | 1.94    | 15.4    |
| V999316            |         | 1.08      | 0.255    | 0.13    | 2.83    | 17.7    | 280     | 0.89    | 0.22    | 0.51    | 0.14    | 36.7    | 8.7     | 83      | 1.80    | 18.1    |
| V999317            |         | 0.71      | 0.030    | 0.08    | 2.74    | 5.9     | 350     | 0.83    | 0.16    | 0.19    | 0.09    | 70.2    | 5.0     | 410     | 1.47    | 15.1    |
| V999318            |         | 0.21      | <0.001   | 0.02    | 2.34    | 3.1     | 30      | 0.21    | <0.01   | 0.02    | <0.02   | 34.6    | 0.5     | 25      | 0.13    | 1.6     |
| V999319            |         | 0.62      | 0.161    | 0.05    | 2.66    | 6.6     | 290     | 0.61    | 0.17    | 0.28    | 0.11    | 51.7    | 5.7     | 366     | 1.08    | 17.2    |
| V999320            |         | 0.53      | 0.092    | 0.05    | 2.86    | 7.4     | 300     | 0.70    | 0.19    | 0.29    | 0.10    | 57.2    | 6.0     | 281     | 1.40    | 21.6    |
| V999321            |         | 0.54      | 0.005    | 0.07    | 2.81    | 7.5     | 300     | 0.71    | 0.15    | 0.25    | 0.07    | 43.3    | 6.4     | 217     | 1.38    | 15.0    |
| V999322            |         | 0.62      | 0.116    | 0.08    | 2.72    | 11.8    | 300     | 0.75    | 0.25    | 0.31    | 0.13    | 43.7    | 13.9    | 228     | 1.66    | 15.5    |
| V999323            |         | 0.36      | 0.042    | 0.06    | 2.60    | 6.9     | 340     | 0.70    | 0.11    | 0.23    | 0.14    | 31.9    | 4.9     | 39      | 1.41    | 10.9    |
| V999324            |         | 0.58      | 0.189    | 0.09    | 2.58    | 9.7     | 290     | 0.79    | 0.25    | 0.26    | 0.16    | 32.8    | 4.2     | 47      | 1.71    | 10.7    |
| V999325            |         | 0.65      | 1.305    | 0.10    | 2.48    | 12.6    | 280     | 0.68    | 0.24    | 0.28    | 0.14    | 28.2    | 6.9     | 124     | 1.74    | 13.1    |
| V999326            |         | 0.41      | 0.043    | 0.09    | 2.52    | 10.5    | 300     | 0.76    | 0.18    | 0.22    | 0.10    | 30.3    | 4.5     | 67      | 1.67    | 10.0    |
| V999327            |         | 0.55      | 0.001    | 0.11    | 2.71    | 16.3    | 290     | 0.79    | 0.22    | 0.33    | 0.13    | 29.5    | 5.3     | 56      | 1.92    | 11.5    |
| V999328            |         | 0.74      | 0.283    | 0.04    | 2.55    | 10.0    | 260     | 0.61    | 0.18    | 0.24    | 0.10    | 44.1    | 14.9    | 90      | 1.10    | 21.5    |
| V999329            |         | 0.68      | 0.028    | 0.09    | 3.00    | 23.9    | 330     | 0.95    | 0.20    | 0.27    | 0.11    | 47.1    | 154.5   | 111     | 1.62    | 131.5   |
| V999330            |         | 0.33      | 0.001    | 0.07    | 2.72    | 14.2    | 270     | 0.65    | 0.16    | 0.40    | 0.10    | 36.3    | 15.0    | 171     | 1.47    | 18.8    |
| V999331            |         | 0.18      | <0.001   | 0.02    | 2.33    | 3.4     | 40      | 0.25    | 0.02    | 0.02    | <0.02   | 34.6    | 1.4     | 26      | 0.12    | 4.5     |
| V999332            |         | 0.72      | 0.002    | 0.10    | 2.71    | 15.1    | 290     | 0.61    | 0.17    | 0.49    | 0.13    | 33.9    | 13.2    | 77      | 1.55    | 24.2    |
| V999333            |         | 0.54      | 0.002    | 0.10    | 3.04    | 29.5    | 300     | 0.74    | 0.27    | 0.54    | 0.15    | 44.5    | 105.0   | 144     | 1.64    | 59.2    |
| V999334            |         | 0.67      | 0.036    | 0.13    | 2.57    | 12.3    | 300     | 0.66    | 0.15    | 0.36    | 0.15    | 39.9    | 44.0    | 111     | 1.43    | 25.8    |
| V999335            |         | 0.65      | <0.001   | 0.15    | 3.37    | 8.8     | 420     | 1.21    | 0.15    | 0.26    | 0.18    | 47.8    | 5.4     | 78      | 3.09    | 11.5    |
| V999336            |         | 0.75      | 0.005    | 0.05    | 3.40    | 10.2    | 270     | 0.87    | 0.20    | 0.12    | 0.10    | 74.2    | 9.0     | 94      | 1.59    | 22.4    |
| V999337            |         | 0.95      | 0.003    | 0.41    | 3.27    | 15.7    | 290     | 0.94    | 0.21    | 0.23    | 0.14    | 60.1    | 9.2     | 74      | 1.73    | 74.5    |



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| Sample Description | Method  | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 |     |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----|
|                    | Analyte | Fe      | Ga      | Ge      | Hf      | In      | K       | La      | Li      | Mg      | Mn      | Mo      | Na      | Nb      | Ni      | P   |
| Units              | %       | ppm     | ppm     | ppm     | ppm     | ppm     | %       | ppm     | ppm     | %       | ppm     | ppm     | %       | ppm     | ppm     | ppm |
| LOD                | 0.01    | 0.05    | 0.05    | 0.1     | 0.005   | 0.01    | 0.01    | 0.5     | 0.2     | 0.01    | 5       | 0.05    | 0.01    | 0.1     | 0.2     | 10  |
| V999298            | 2.00    | 6.27    | 0.06    | 0.8     | 0.017   | 0.93    | 19.5    | 18.1    | 0.24    | 616     | 1.26    | 0.49    | 6.9     | 17.4    | 180     |     |
| V999299            | 2.59    | 6.74    | 0.06    | 1.0     | 0.020   | 0.70    | 26.9    | 21.3    | 0.31    | 326     | 1.52    | 0.49    | 6.0     | 19.3    | 240     |     |
| V999300            | 2.11    | 6.90    | <0.05   | 1.0     | 0.028   | 0.75    | 18.4    | 21.4    | 0.33    | 257     | 0.68    | 0.52    | 5.4     | 14.9    | 260     |     |
| V999301            | 2.38    | 6.61    | 0.05    | 0.9     | 0.019   | 0.73    | 18.2    | 20.7    | 0.33    | 327     | 1.17    | 0.51    | 5.6     | 16.8    | 230     |     |
| V999302            | 2.19    | 6.84    | 0.06    | 0.8     | 0.024   | 0.71    | 17.3    | 20.5    | 0.35    | 397     | 0.71    | 0.51    | 5.8     | 17.2    | 200     |     |
| V999303            | 0.88    | 5.15    | <0.05   | 2.5     | 0.006   | 0.15    | 18.8    | 13.9    | 0.01    | 44      | 0.30    | 0.01    | 2.2     | 2.0     | 200     |     |
| V999304            | 2.29    | 6.21    | 0.05    | 0.7     | 0.031   | 0.66    | 15.5    | 20.1    | 0.33    | 441     | 1.15    | 0.48    | 6.3     | 35.8    | 210     |     |
| V999305            | 2.00    | 5.54    | <0.05   | 0.9     | 0.016   | 0.57    | 14.1    | 16.7    | 0.27    | 386     | 1.13    | 0.50    | 4.0     | 13.8    | 140     |     |
| V999306            | 2.33    | 5.97    | 0.06    | 1.1     | 0.022   | 0.58    | 25.4    | 18.3    | 0.29    | 418     | 1.00    | 0.52    | 5.5     | 15.0    | 200     |     |
| V999307            | 2.39    | 6.08    | 0.05    | 0.9     | 0.012   | 0.64    | 21.0    | 19.1    | 0.31    | 330     | 0.87    | 0.52    | 5.0     | 16.0    | 200     |     |
| V999308            | 2.49    | 6.44    | 0.06    | 1.0     | 0.060   | 0.64    | 20.3    | 19.4    | 0.33    | 326     | 1.17    | 0.55    | 5.7     | 16.3    | 200     |     |
| V999309            | 2.61    | 6.29    | 0.06    | 0.9     | 0.024   | 0.64    | 17.8    | 19.0    | 0.31    | 322     | 1.70    | 0.50    | 5.2     | 16.6    | 180     |     |
| V999310            | 3.43    | 6.45    | 0.05    | 0.9     | 0.025   | 0.71    | 20.0    | 19.7    | 0.32    | 361     | 5.11    | 0.50    | 5.7     | 20.6    | 270     |     |
| V999311            | 2.04    | 6.20    | 0.07    | 1.0     | 0.020   | 0.74    | 22.4    | 18.5    | 0.27    | 314     | 0.58    | 0.57    | 7.7     | 14.1    | 190     |     |
| V999312            | 2.81    | 6.58    | 0.08    | 1.0     | 0.018   | 0.69    | 26.7    | 20.0    | 0.31    | 413     | 0.80    | 0.54    | 7.8     | 18.1    | 240     |     |
| V999313            | 3.53    | 7.00    | 0.07    | 1.1     | 0.025   | 0.73    | 31.5    | 20.9    | 0.37    | 615     | 1.26    | 0.55    | 10.5    | 23.9    | 260     |     |
| V999314            | 3.00    | 7.15    | 0.05    | 0.9     | 0.023   | 0.72    | 21.0    | 20.3    | 0.42    | 407     | 1.04    | 0.57    | 7.6     | 21.7    | 250     |     |
| V999315            | 2.57    | 7.03    | <0.05   | 0.9     | 0.025   | 0.74    | 17.6    | 21.0    | 0.40    | 386     | 0.60    | 0.54    | 6.1     | 17.3    | 240     |     |
| V999316            | 2.64    | 7.07    | 0.06    | 0.8     | 0.030   | 0.69    | 18.2    | 20.9    | 0.40    | 398     | 0.74    | 0.49    | 6.4     | 17.6    | 240     |     |
| V999317            | 2.58    | 6.71    | 0.07    | 1.0     | 0.018   | 0.81    | 33.7    | 19.4    | 0.27    | 285     | 1.17    | 0.49    | 8.5     | 17.9    | 220     |     |
| V999318            | 0.90    | 4.93    | <0.05   | 2.6     | <0.005  | 0.14    | 18.3    | 13.2    | 0.01    | 44      | 0.36    | 0.01    | 2.2     | 1.9     | 170     |     |
| V999319            | 2.70    | 5.67    | 0.07    | 0.9     | 0.017   | 0.66    | 24.7    | 16.8    | 0.29    | 349     | 1.44    | 0.54    | 5.6     | 16.6    | 210     |     |
| V999320            | 2.70    | 6.65    | 0.08    | 1.0     | 0.023   | 0.73    | 27.2    | 19.4    | 0.32    | 364     | 1.10    | 0.55    | 7.0     | 18.2    | 230     |     |
| V999321            | 2.72    | 6.58    | 0.06    | 0.9     | 0.016   | 0.75    | 20.8    | 20.3    | 0.31    | 323     | 0.95    | 0.55    | 5.9     | 16.3    | 220     |     |
| V999322            | 2.57    | 6.52    | 0.05    | 0.9     | 0.019   | 0.75    | 21.6    | 20.3    | 0.30    | 389     | 1.41    | 0.50    | 6.7     | 16.2    | 280     |     |
| V999323            | 1.70    | 6.23    | 0.05    | 0.7     | 0.013   | 0.84    | 15.3    | 19.0    | 0.27    | 365     | 0.52    | 0.44    | 3.8     | 11.2    | 210     |     |
| V999324            | 1.73    | 5.78    | <0.05   | 0.7     | 0.020   | 0.78    | 15.8    | 18.9    | 0.27    | 349     | 0.46    | 0.49    | 5.2     | 10.7    | 190     |     |
| V999325            | 2.03    | 5.83    | 0.05    | 0.6     | 0.024   | 0.70    | 13.5    | 19.2    | 0.29    | 326     | 1.07    | 0.46    | 4.8     | 13.3    | 200     |     |
| V999326            | 1.65    | 5.64    | <0.05   | 0.7     | 0.016   | 0.76    | 14.4    | 18.8    | 0.25    | 326     | 0.50    | 0.50    | 4.7     | 10.6    | 190     |     |
| V999327            | 2.04    | 6.19    | 0.05    | 0.7     | 0.024   | 0.78    | 14.6    | 21.4    | 0.32    | 315     | 0.51    | 0.47    | 5.3     | 12.2    | 230     |     |
| V999328            | 2.68    | 6.08    | 0.05    | 1.0     | 0.024   | 0.59    | 20.7    | 18.8    | 0.31    | 357     | 0.84    | 0.50    | 4.2     | 18.7    | 230     |     |
| V999329            | 2.90    | 7.36    | 0.07    | 0.9     | 0.025   | 0.77    | 22.7    | 22.8    | 0.32    | 365     | 2.27    | 0.51    | 5.3     | 32.2    | 260     |     |
| V999330            | 2.53    | 6.64    | 0.05    | 0.9     | 0.019   | 0.64    | 18.0    | 20.6    | 0.34    | 342     | 2.69    | 0.50    | 5.1     | 16.6    | 260     |     |
| V999331            | 0.87    | 4.67    | <0.05   | 2.5     | <0.005  | 0.14    | 18.3    | 13.2    | 0.01    | 44      | 0.30    | 0.01    | 2.1     | 2.3     | 230     |     |
| V999332            | 2.33    | 6.58    | <0.05   | 0.8     | 0.021   | 0.65    | 16.3    | 19.9    | 0.37    | 355     | 0.59    | 0.48    | 5.4     | 16.0    | 260     |     |
| V999333            | 3.15    | 7.28    | 0.07    | 1.0     | 0.019   | 0.71    | 21.4    | 21.5    | 0.41    | 471     | 2.64    | 0.53    | 7.9     | 23.4    | 320     |     |
| V999334            | 2.24    | 6.19    | 0.05    | 0.8     | 0.019   | 0.65    | 19.2    | 19.2    | 0.33    | 359     | 0.89    | 0.44    | 6.7     | 15.5    | 250     |     |
| V999335            | 1.74    | 8.01    | 0.07    | 0.9     | 0.021   | 1.37    | 23.4    | 25.0    | 0.27    | 301     | 0.49    | 0.57    | 9.9     | 11.3    | 220     |     |
| V999336            | 2.93    | 8.52    | 0.11    | 1.4     | 0.020   | 0.89    | 36.4    | 26.9    | 0.37    | 325     | 1.26    | 0.63    | 10.2    | 19.9    | 270     |     |
| V999337            | 2.81    | 7.97    | 0.09    | 1.3     | 0.021   | 0.88    | 29.2    | 25.2    | 0.37    | 319     | 0.77    | 0.60    | 8.3     | 29.4    | 280     |     |



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 Finalized Date: 10-NOV-2018  
 Account: VGPMEBKL

Project: WHDM BIG ALEX

**CERTIFICATE OF ANALYSIS WH18246286**

| Sample Description | Method Analyte Units LOD | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 |     |
|--------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----|
|                    |                          | Pb      | Rb      | Re      | S       | Sb      | Sc      | Se      | Sn      | Sr      | Ta      | Te      | Th      | Ti      | Tl      | U   |
|                    |                          | ppm     | ppm     | ppm     | %       | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | %       | ppm     | ppm |
| V999298            | 8.3                      | 53.7    | <0.002  | 0.01    | 0.97    | 3.0     | <1      | 1.4     | 52.6    | 0.70    | <0.05   | 5.19    | 0.230   | 0.33    | 1.1     |     |
| V999299            | 16.4                     | 40.1    | <0.002  | 0.01    | 0.88    | 3.8     | 1       | 8.8     | 44.6    | 0.60    | <0.05   | 7.25    | 0.189   | 0.21    | 1.4     |     |
| V999300            | 8.1                      | 42.3    | <0.002  | 0.01    | 0.70    | 3.7     | 1       | 3.1     | 48.0    | 0.52    | <0.05   | 5.61    | 0.172   | 0.22    | 1.2     |     |
| V999301            | 10.3                     | 42.5    | <0.002  | <0.01   | 1.20    | 3.8     | <1      | 1.9     | 51.2    | 0.54    | <0.05   | 5.63    | 0.174   | 0.25    | 1.5     |     |
| V999302            | 15.5                     | 41.4    | <0.002  | 0.01    | 1.19    | 4.1     | 1       | 10.0    | 53.7    | 0.53    | <0.05   | 5.64    | 0.175   | 0.24    | 1.4     |     |
| V999303            | 2.9                      | 3.8     | <0.002  | 0.01    | 1.15    | 2.1     | 1       | 0.8     | 181.5   | 0.19    | <0.05   | 6.33    | 0.063   | <0.02   | 0.9     |     |
| V999304            | 9.2                      | 37.7    | 0.002   | 0.01    | 0.88    | 3.8     | 1       | 2.3     | 50.5    | 0.65    | <0.05   | 5.41    | 0.184   | 0.24    | 1.3     |     |
| V999305            | 8.0                      | 29.2    | <0.002  | <0.01   | 0.80    | 3.0     | 1       | 1.9     | 42.7    | 0.34    | <0.05   | 5.01    | 0.130   | 0.16    | 1.0     |     |
| V999306            | 10.3                     | 30.1    | <0.002  | <0.01   | 0.90    | 3.6     | <1      | 3.7     | 42.2    | 0.54    | <0.05   | 6.11    | 0.182   | 0.16    | 1.3     |     |
| V999307            | 9.5                      | 33.3    | 0.002   | <0.01   | 0.73    | 3.6     | 1       | 4.4     | 44.0    | 0.45    | <0.05   | 5.69    | 0.176   | 0.18    | 1.3     |     |
| V999308            | 11.1                     | 34.7    | <0.002  | <0.01   | 0.87    | 3.8     | 1       | 5.6     | 48.7    | 0.55    | <0.05   | 6.00    | 0.185   | 0.19    | 1.3     |     |
| V999309            | 10.9                     | 34.0    | <0.002  | <0.01   | 1.10    | 3.4     | <1      | 5.9     | 46.2    | 0.45    | <0.05   | 5.52    | 0.168   | 0.20    | 1.3     |     |
| V999310            | 13.0                     | 37.6    | 0.002   | <0.01   | 1.89    | 3.7     | 1       | 2.7     | 49.6    | 0.58    | <0.05   | 5.66    | 0.181   | 0.23    | 1.5     |     |
| V999311            | 10.5                     | 42.8    | <0.002  | 0.01    | 0.84    | 3.1     | 1       | 2.2     | 47.3    | 0.88    | <0.05   | 6.53    | 0.193   | 0.26    | 1.3     |     |
| V999312            | 12.1                     | 39.0    | <0.002  | <0.01   | 1.15    | 4.0     | <1      | 2.0     | 46.8    | 0.91    | <0.05   | 6.84    | 0.208   | 0.22    | 1.6     |     |
| V999313            | 17.1                     | 41.5    | <0.002  | 0.01    | 1.85    | 4.5     | <1      | 6.6     | 53.5    | 1.32    | <0.05   | 7.70    | 0.261   | 0.22    | 1.8     |     |
| V999314            | 18.6                     | 41.2    | <0.002  | <0.01   | 1.41    | 4.7     | 1       | 9.4     | 60.4    | 0.85    | <0.05   | 6.58    | 0.204   | 0.23    | 1.8     |     |
| V999315            | 11.0                     | 41.1    | <0.002  | <0.01   | 1.52    | 4.4     | 1       | 3.9     | 60.3    | 0.59    | <0.05   | 5.86    | 0.199   | 0.25    | 1.4     |     |
| V999316            | 11.3                     | 38.2    | <0.002  | <0.01   | 1.87    | 4.7     | 1       | 2.1     | 57.8    | 0.60    | <0.05   | 5.72    | 0.222   | 0.23    | 1.5     |     |
| V999317            | 8.4                      | 45.1    | <0.002  | <0.01   | 0.75    | 3.6     | <1      | 1.6     | 44.7    | 0.95    | <0.05   | 6.84    | 0.236   | 0.25    | 1.2     |     |
| V999318            | 2.8                      | 3.6     | <0.002  | 0.01    | 1.10    | 2.0     | 1       | 0.8     | 164.0   | 0.19    | <0.05   | 6.46    | 0.063   | <0.02   | 0.9     |     |
| V999319            | 8.1                      | 32.3    | <0.002  | <0.01   | 0.72    | 3.2     | 1       | 1.5     | 39.2    | 0.54    | <0.05   | 6.59    | 0.199   | 0.19    | 1.3     |     |
| V999320            | 9.2                      | 39.8    | 0.002   | <0.01   | 0.85    | 4.0     | <1      | 1.9     | 43.7    | 0.67    | <0.05   | 6.19    | 0.220   | 0.28    | 1.2     |     |
| V999321            | 20.9                     | 39.7    | <0.002  | <0.01   | 0.96    | 3.8     | <1      | 17.8    | 46.3    | 0.57    | <0.05   | 5.84    | 0.183   | 0.27    | 1.2     |     |
| V999322            | 15.9                     | 42.3    | 0.002   | <0.01   | 1.10    | 3.9     | <1      | 7.0     | 51.2    | 0.64    | <0.05   | 5.81    | 0.227   | 0.30    | 1.4     |     |
| V999323            | 9.9                      | 46.2    | <0.002  | <0.01   | 0.75    | 3.4     | <1      | 2.0     | 45.5    | 0.30    | <0.05   | 4.35    | 0.113   | 0.29    | 0.8     |     |
| V999324            | 11.5                     | 42.8    | 0.002   | <0.01   | 0.88    | 3.0     | <1      | 2.2     | 46.8    | 0.46    | <0.05   | 5.03    | 0.171   | 0.31    | 1.0     |     |
| V999325            | 11.3                     | 39.3    | <0.002  | <0.01   | 1.06    | 3.4     | <1      | 2.3     | 48.3    | 0.40    | <0.05   | 4.75    | 0.155   | 0.27    | 1.1     |     |
| V999326            | 11.4                     | 41.1    | <0.002  | <0.01   | 0.87    | 2.9     | <1      | 2.3     | 49.0    | 0.40    | <0.05   | 4.76    | 0.155   | 0.29    | 1.0     |     |
| V999327            | 11.4                     | 42.6    | <0.002  | 0.01    | 1.51    | 3.6     | <1      | 2.3     | 50.3    | 0.46    | <0.05   | 4.94    | 0.177   | 0.33    | 1.2     |     |
| V999328            | 10.0                     | 31.6    | <0.002  | <0.01   | 1.12    | 3.9     | <1      | 1.2     | 41.1    | 0.36    | <0.05   | 5.46    | 0.148   | 0.22    | 1.2     |     |
| V999329            | 12.1                     | 41.2    | 0.011   | 0.01    | 1.38    | 4.2     | <1      | 1.7     | 66.9    | 0.44    | <0.05   | 6.14    | 0.160   | 0.35    | 1.4     |     |
| V999330            | 9.7                      | 34.6    | 0.003   | <0.01   | 1.39    | 4.3     | <1      | 1.8     | 57.8    | 0.43    | <0.05   | 5.27    | 0.180   | 0.23    | 1.3     |     |
| V999331            | 2.8                      | 3.4     | <0.002  | 0.01    | 1.05    | 2.0     | <1      | 0.8     | 183.5   | 0.17    | <0.05   | 5.65    | 0.064   | 0.02    | 0.8     |     |
| V999332            | 11.2                     | 36.2    | 0.003   | <0.01   | 1.44    | 4.6     | <1      | 2.7     | 56.8    | 0.44    | <0.05   | 4.99    | 0.205   | 0.27    | 1.3     |     |
| V999333            | 13.3                     | 37.9    | 0.007   | <0.01   | 2.02    | 5.0     | <1      | 2.4     | 62.3    | 0.49    | <0.05   | 5.94    | 0.234   | 0.32    | 1.7     |     |
| V999334            | 10.1                     | 36.0    | 0.003   | <0.01   | 1.46    | 4.5     | <1      | 2.2     | 49.4    | 0.50    | <0.05   | 5.12    | 0.236   | 0.31    | 2.3     |     |
| V999335            | 11.1                     | 86.8    | <0.002  | 0.01    | 0.93    | 4.2     | <1      | 2.0     | 58.4    | 1.07    | <0.05   | 6.44    | 0.228   | 0.64    | 2.2     |     |
| V999336            | 11.9                     | 49.7    | <0.002  | <0.01   | 0.82    | 4.6     | <1      | 1.8     | 49.5    | 1.16    | <0.05   | 8.33    | 0.204   | 0.30    | 1.6     |     |
| V999337            | 12.3                     | 47.6    | <0.002  | <0.01   | 1.10    | 4.5     | <1      | 1.8     | 52.6    | 0.84    | <0.05   | 7.45    | 0.200   | 0.33    | 1.7     |     |



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**CERTIFICATE OF ANALYSIS WH18246286**

| Sample Description | Method Analyte Units LOD | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 |
|--------------------|--------------------------|---------|---------|---------|---------|---------|
|                    |                          | V       | W       | Y       | Zn      | Zr      |
|                    |                          | ppm     | ppm     | ppm     | ppm     | ppm     |
|                    |                          | 1       | 0.1     | 0.1     | 2       | 0.5     |
| V999298            |                          | 27      | 3.1     | 6.3     | 38      | 31.7    |
| V999299            |                          | 30      | 8.4     | 6.6     | 44      | 34.1    |
| V999300            |                          | 31      | 24.7    | 6.0     | 41      | 34.3    |
| V999301            |                          | 32      | 23.8    | 5.9     | 41      | 29.7    |
| V999302            |                          | 33      | 24.6    | 5.8     | 41      | 27.7    |
| V999303            |                          | 5       | 0.4     | 7.1     | 4       | 86.5    |
| V999304            |                          | 29      | 27.7    | 5.7     | 48      | 25.8    |
| V999305            |                          | 27      | 6.4     | 5.7     | 37      | 30.1    |
| V999306            |                          | 29      | 43.9    | 6.4     | 40      | 34.4    |
| V999307            |                          | 32      | 94.0    | 6.0     | 41      | 31.9    |
| V999308            |                          | 32      | 35.3    | 6.2     | 43      | 33.6    |
| V999309            |                          | 30      | 65.5    | 5.9     | 41      | 30.7    |
| V999310            |                          | 31      | 207     | 6.3     | 46      | 29.0    |
| V999311            |                          | 26      | 2.1     | 5.9     | 39      | 33.8    |
| V999312            |                          | 31      | 10.9    | 7.8     | 45      | 34.3    |
| V999313            |                          | 37      | 25.9    | 8.1     | 53      | 36.2    |
| V999314            |                          | 39      | 17.6    | 7.3     | 44      | 31.9    |
| V999315            |                          | 37      | 10.5    | 6.4     | 44      | 28.2    |
| V999316            |                          | 39      | 25.8    | 6.8     | 47      | 27.5    |
| V999317            |                          | 30      | 3.3     | 7.4     | 43      | 35.2    |
| V999318            |                          | 5       | 0.6     | 9.0     | 4       | 87.2    |
| V999319            |                          | 29      | 7.4     | 5.8     | 43      | 30.9    |
| V999320            |                          | 33      | 5.4     | 6.8     | 46      | 34.8    |
| V999321            |                          | 31      | 7.0     | 6.3     | 43      | 33.2    |
| V999322            |                          | 29      | 86.8    | 6.3     | 49      | 29.1    |
| V999323            |                          | 28      | 0.9     | 5.2     | 39      | 25.8    |
| V999324            |                          | 25      | 3.1     | 5.3     | 37      | 30.9    |
| V999325            |                          | 26      | 21.1    | 4.8     | 36      | 22.2    |
| V999326            |                          | 24      | 2.3     | 4.7     | 34      | 23.0    |
| V999327            |                          | 27      | 7.8     | 5.2     | 39      | 24.3    |
| V999328            |                          | 31      | 101.0   | 5.9     | 46      | 33.8    |
| V999329            |                          | 30      | 1240    | 6.1     | 48      | 30.9    |
| V999330            |                          | 33      | 108.0   | 6.0     | 42      | 29.8    |
| V999331            |                          | 5       | 9.3     | 7.4     | 4       | 83.2    |
| V999332            |                          | 37      | 81.2    | 6.2     | 45      | 24.8    |
| V999333            |                          | 40      | 900     | 7.4     | 52      | 32.3    |
| V999334            |                          | 35      | 380     | 6.7     | 52      | 26.3    |
| V999335            |                          | 31      | 17.6    | 6.7     | 45      | 33.1    |
| V999336            |                          | 33      | 15.6    | 7.0     | 58      | 50.3    |
| V999337            |                          | 34      | 25.2    | 6.9     | 104     | 44.8    |



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| Sample Description | Method Analyte Units LOD | WEI-21       | Au-ICP22 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 |
|--------------------|--------------------------|--------------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                    |                          | Recvd Wt. kg | Au ppm   | Ag ppm  | Al %    | As ppm  | Ba ppm  | Be ppm  | Bi ppm  | Ca %    | Cd ppm  | Ce ppm  | Co ppm  | Cr ppm  | Cs ppm  | Cu ppm  |
|                    |                          | 0.02         | 0.001    | 0.01    | 0.01    | 0.2     | 10      | 0.05    | 0.01    | 0.01    | 0.02    | 0.01    | 1       | 0.05    | 0.2     |         |
| V999338            |                          | 0.54         | 0.002    | 0.06    | 3.13    | 12.2    | 310     | 0.89    | 0.17    | 0.17    | 0.13    | 57.1    | 6.5     | 37      | 2.21    | 13.1    |
| V999339            |                          | 0.69         | 0.425    | 0.07    | 2.51    | 27.3    | 300     | 0.90    | 0.26    | 0.37    | 0.16    | 34.7    | 22.9    | 154     | 1.65    | 25.1    |
| V999340            |                          | 0.61         | 5.07     | 0.10    | 2.73    | 26.4    | 320     | 0.72    | 0.29    | 0.42    | 0.14    | 33.2    | 98.7    | 291     | 1.92    | 61.6    |
| V999341            |                          | 0.60         | 2.12     | 0.18    | 2.77    | 30.6    | 300     | 0.88    | 0.31    | 0.43    | 0.15    | 31.4    | 34.9    | 447     | 2.09    | 150.0   |
| V999342            |                          | 0.59         | 0.417    | 0.12    | 2.65    | 16.4    | 300     | 0.81    | 0.30    | 0.33    | 0.14    | 30.7    | 37.8    | 224     | 2.04    | 175.5   |
| V999343            |                          | 0.57         | 0.710    | 0.12    | 2.74    | 23.3    | 310     | 0.84    | 0.36    | 0.33    | 0.20    | 31.6    | 30.2    | 219     | 2.04    | 105.5   |
| V999344            |                          | 0.59         | 3.91     | 0.11    | 2.67    | 24.2    | 310     | 0.71    | 0.61    | 0.28    | 0.15    | 32.0    | 22.4    | 486     | 1.80    | 43.0    |
| V999345            |                          | 0.36         | 0.003    | 0.12    | 2.50    | 18.0    | 340     | 0.69    | 0.24    | 0.42    | 0.10    | 27.1    | 16.5    | 127     | 1.68    | 52.9    |
| V999346            |                          | 0.52         | 0.116    | 0.09    | 2.84    | 20.3    | 460     | 0.80    | 0.31    | 0.47    | 0.10    | 26.1    | 28.5    | 95      | 1.92    | 17.7    |
| V999347            |                          | 0.84         | 0.003    | 0.07    | 3.07    | 15.0    | 560     | 1.10    | 0.20    | 0.22    | 0.09    | 42.4    | 8.6     | 79      | 2.38    | 11.6    |
| V999348            |                          | 0.46         | 0.152    | 0.06    | 2.52    | 9.7     | 370     | 0.62    | 0.24    | 0.27    | 0.10    | 30.0    | 4.5     | 70      | 1.49    | 17.2    |
| V999349            |                          | 0.52         | 0.100    | 0.09    | 2.40    | 12.5    | 290     | 0.52    | 0.29    | 0.31    | 0.12    | 27.0    | 10.1    | 48      | 1.59    | 15.3    |
| V999350            |                          | 0.59         | 0.426    | 0.13    | 2.47    | 19.5    | 310     | 0.72    | 0.21    | 0.41    | 0.13    | 29.3    | 20.4    | 93      | 1.65    | 21.2    |
| V999351            |                          | 0.47         | 0.005    | 0.08    | 2.78    | 11.1    | 440     | 0.83    | 0.17    | 0.50    | 0.10    | 47.1    | 22.9    | 97      | 1.70    | 15.1    |
| V999352            |                          | 0.24         | 0.103    | 0.08    | 2.10    | 7.1     | 370     | 0.52    | 0.13    | 0.30    | 0.28    | 24.2    | 20.0    | 48      | 1.14    | 8.7     |
| V999353            |                          | 0.42         | 0.006    | 0.16    | 2.60    | 9.3     | 380     | 0.80    | 0.24    | 0.61    | 0.15    | 43.5    | 186.0   | 103     | 1.65    | 331     |
| V999354            |                          | 0.74         | 0.002    | 0.03    | 2.61    | 8.0     | 270     | 0.65    | 0.13    | 0.30    | 0.08    | 36.4    | 6.8     | 105     | 1.37    | 13.3    |
| V999355            |                          | 0.66         | 0.117    | 0.07    | 2.57    | 11.9    | 290     | 0.77    | 0.19    | 0.33    | 0.09    | 38.7    | 7.9     | 509     | 1.68    | 19.3    |
| V999356            |                          | 0.63         | 0.074    | 0.06    | 2.77    | 16.0    | 290     | 0.74    | 0.24    | 0.42    | 0.15    | 44.3    | 7.9     | 256     | 1.66    | 16.5    |
| V999357            |                          | 0.59         | 0.049    | 0.06    | 2.77    | 14.7    | 290     | 0.86    | 0.27    | 0.28    | 0.14    | 63.0    | 7.4     | 80      | 1.96    | 15.1    |
| V999358            |                          | 0.37         | 0.208    | 0.05    | 2.39    | 9.1     | 250     | 0.66    | 0.14    | 0.22    | 0.05    | 36.9    | 7.7     | 67      | 1.44    | 12.8    |
| V999359            |                          | 0.54         | 0.028    | 0.08    | 2.69    | 15.6    | 290     | 0.74    | 0.31    | 0.29    | 0.22    | 48.8    | 14.1    | 360     | 1.69    | 108.5   |
| V999360            |                          | 0.63         | 0.004    | 0.07    | 3.04    | 10.4    | 290     | 0.78    | 0.21    | 0.39    | 0.13    | 39.8    | 13.3    | 260     | 1.63    | 55.9    |
| V999361            |                          | 0.54         | 0.004    | 0.11    | 3.16    | 10.9    | 330     | 0.88    | 0.19    | 0.26    | 0.15    | 42.7    | 15.0    | 163     | 1.71    | 299     |
| V999362            |                          | 0.25         | 0.001    | 0.02    | 2.35    | 3.7     | 30      | 0.24    | 0.03    | 0.02    | <0.02   | 32.6    | 0.6     | 26      | 0.12    | 2.3     |
| V999363            |                          | 0.64         | 0.019    | 0.09    | 3.18    | 11.5    | 330     | 0.90    | 0.55    | 0.26    | 0.16    | 41.9    | 8.9     | 94      | 1.91    | 20.0    |
| V999364            |                          | 0.50         | 0.002    | 0.08    | 3.16    | 11.5    | 330     | 1.06    | 0.21    | 0.25    | 0.17    | 44.9    | 9.8     | 79      | 2.05    | 18.0    |
| V999365            |                          | 0.34         | 0.989    | 0.07    | 2.95    | 9.0     | 320     | 0.81    | 0.16    | 0.27    | 0.13    | 32.3    | 6.5     | 108     | 1.59    | 14.9    |
| V999366            |                          | 0.73         | 0.061    | 0.09    | 2.70    | 12.8    | 280     | 0.78    | 0.29    | 0.23    | 0.14    | 32.5    | 6.5     | 113     | 1.96    | 17.2    |
| V999367            |                          | 0.67         | 1.355    | 0.12    | 2.32    | 12.3    | 310     | 0.66    | 0.21    | 0.26    | 0.21    | 28.3    | 5.8     | 99      | 1.53    | 13.3    |
| V999368            |                          | 0.46         | 0.188    | 0.09    | 2.20    | 12.5    | 320     | 0.53    | 0.17    | 0.25    | 0.23    | 27.6    | 35.9    | 98      | 1.24    | 13.3    |
| V999369            |                          | 0.45         | 1.325    | 0.11    | 2.50    | 14.6    | 340     | 0.67    | 0.20    | 0.40    | 0.25    | 46.3    | 11.4    | 137     | 1.65    | 14.1    |
| V999370            |                          | Listed, NR   |          |         |         |         |         |         |         |         |         |         |         |         |         |         |
| V999371            |                          | 0.51         | 0.034    | 0.08    | 2.47    | 12.6    | 280     | 0.69    | 0.16    | 0.67    | 0.15    | 57.9    | 178.0   | 166     | 1.54    | 33.6    |
| V999372            |                          | 0.63         | 2.40     | 0.12    | 2.59    | 13.5    | 280     | 0.55    | 0.15    | 0.94    | 0.07    | 34.3    | 64.0    | 137     | 1.16    | 49.6    |
| V999373            |                          | 0.73         | 0.007    | 0.14    | 2.26    | 7.9     | 270     | 0.39    | 0.12    | 0.66    | 0.07    | 23.5    | 118.5   | 137     | 0.90    | 23.9    |
| V999374            |                          | 0.43         | 0.009    | 0.23    | 2.35    | 10.6    | 280     | 0.46    | 0.20    | 0.69    | 0.11    | 31.5    | 499     | 360     | 0.94    | 99.9    |
| V999375            |                          | 0.67         | 0.382    | 0.08    | 2.24    | 11.3    | 300     | 0.60    | 0.21    | 0.41    | 0.10    | 43.4    | 12.0    | 74      | 1.49    | 36.8    |
| V999376            |                          | 0.51         | 0.747    | 0.17    | 2.23    | 7.9     | 360     | 0.57    | 0.23    | 0.36    | 0.13    | 28.5    | 50.1    | 60      | 1.31    | 23.7    |
| V999377            |                          | 0.41         | 0.002    | 0.20    | 2.13    | 8.3     | 340     | 0.46    | 0.10    | 0.30    | 0.14    | 26.8    | 14.1    | 33      | 1.19    | 13.7    |



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 Account: VGPMEBKL

Project: WHDM BIG ALEX

**CERTIFICATE OF ANALYSIS WH18246286**

| Sample Description | Method  | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 |     |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----|
|                    | Analyte | Fe      | Ga      | Ge      | Hf      | In      | K       | La      | Li      | Mg      | Mn      | Mo      | Na      | Nb      | Ni      | P   |
| Units              | %       | ppm     | ppm     | ppm     | ppm     | ppm     | %       | ppm     | ppm     | %       | ppm     | ppm     | %       | ppm     | ppm     | ppm |
| LOD                | 0.01    | 0.05    | 0.05    | 0.1     | 0.005   | 0.01    | 0.5     | 0.2     | 0.01    | 5       | 0.05    | 0.01    | 0.1     | 0.2     | 10      |     |
| V999338            | 2.39    | 7.47    | 0.08    | 1.3     | 0.025   | 0.99    | 27.7    | 24.3    | 0.30    | 316     | 0.65    | 0.54    | 10.0    | 15.7    | 220     |     |
| V999339            | 3.09    | 5.69    | 0.05    | 0.7     | 0.024   | 0.69    | 16.6    | 18.5    | 0.27    | 491     | 2.98    | 0.43    | 5.1     | 19.2    | 180     |     |
| V999340            | 3.01    | 6.33    | 0.06    | 0.8     | 0.039   | 0.76    | 15.9    | 19.0    | 0.32    | 478     | 2.30    | 0.47    | 6.6     | 23.3    | 210     |     |
| V999341            | 3.53    | 6.54    | 0.05    | 0.8     | 0.026   | 0.75    | 15.2    | 20.1    | 0.33    | 530     | 5.56    | 0.47    | 6.6     | 37.8    | 200     |     |
| V999342            | 2.37    | 6.24    | <0.05   | 0.8     | 0.029   | 0.77    | 14.8    | 20.4    | 0.29    | 386     | 4.13    | 0.48    | 6.3     | 36.9    | 210     |     |
| V999343            | 2.92    | 6.43    | 0.05    | 0.9     | 0.027   | 0.78    | 15.3    | 20.3    | 0.30    | 461     | 3.65    | 0.46    | 6.9     | 29.3    | 250     |     |
| V999344            | 3.30    | 5.94    | <0.05   | 0.7     | 0.028   | 0.79    | 15.5    | 18.1    | 0.27    | 482     | 2.58    | 0.48    | 6.7     | 21.3    | 180     |     |
| V999345            | 1.97    | 5.64    | <0.05   | 0.7     | 0.026   | 0.76    | 12.6    | 16.6    | 0.30    | 354     | 1.17    | 0.48    | 7.9     | 16.8    | 240     |     |
| V999346            | 1.84    | 6.48    | <0.05   | 0.6     | 0.027   | 1.24    | 11.4    | 16.0    | 0.31    | 317     | 0.97    | 0.40    | 8.0     | 13.4    | 230     |     |
| V999347            | 1.72    | 7.08    | 0.05    | 0.6     | 0.022   | 1.63    | 11.5    | 16.9    | 0.20    | 325     | 0.53    | 0.29    | 10.3    | 11.1    | 190     |     |
| V999348            | 1.69    | 5.58    | <0.05   | 0.7     | 0.016   | 0.87    | 14.4    | 16.4    | 0.26    | 325     | 0.53    | 0.51    | 6.2     | 11.8    | 270     |     |
| V999349            | 1.75    | 5.23    | <0.05   | 0.6     | 0.023   | 0.72    | 12.9    | 17.0    | 0.28    | 332     | 0.49    | 0.48    | 5.9     | 11.7    | 180     |     |
| V999350            | 2.18    | 5.74    | <0.05   | 0.7     | 0.029   | 0.75    | 13.4    | 17.6    | 0.30    | 374     | 1.56    | 0.47    | 8.5     | 14.9    | 200     |     |
| V999351            | 2.40    | 6.61    | <0.05   | 0.7     | 0.021   | 1.00    | 13.7    | 19.9    | 0.36    | 433     | 0.99    | 0.45    | 11.5    | 18.5    | 210     |     |
| V999352            | 1.65    | 4.91    | <0.05   | 0.6     | 0.037   | 0.61    | 11.3    | 17.7    | 0.24    | 410     | 0.69    | 0.38    | 4.3     | 10.1    | 180     |     |
| V999353            | 2.00    | 6.15    | <0.05   | 0.6     | 0.028   | 0.81    | 13.6    | 18.1    | 0.36    | 592     | 0.84    | 0.44    | 8.3     | 54.1    | 180     |     |
| V999354            | 2.13    | 6.29    | 0.06    | 1.0     | 0.023   | 0.64    | 17.3    | 19.2    | 0.33    | 307     | 0.64    | 0.51    | 6.2     | 15.3    | 210     |     |
| V999355            | 2.92    | 6.24    | 0.09    | 0.8     | 0.025   | 0.73    | 17.9    | 21.5    | 0.30    | 349     | 1.32    | 0.51    | 7.5     | 19.9    | 280     |     |
| V999356            | 2.72    | 6.29    | 0.06    | 0.9     | 0.025   | 0.76    | 21.7    | 22.2    | 0.34    | 426     | 0.91    | 0.52    | 9.6     | 17.1    | 280     |     |
| V999357            | 2.36    | 7.50    | 0.09    | 1.1     | 0.023   | 0.80    | 29.3    | 25.4    | 0.32    | 436     | 0.66    | 0.50    | 14.7    | 16.6    | 220     |     |
| V999358            | 1.93    | 6.14    | 0.08    | 0.9     | 0.013   | 0.67    | 17.4    | 21.1    | 0.29    | 266     | 0.60    | 0.50    | 6.4     | 14.1    | 190     |     |
| V999359            | 4.46    | 6.25    | 0.06    | 0.8     | 0.021   | 0.80    | 22.7    | 20.8    | 0.31    | 556     | 1.85    | 0.46    | 9.8     | 30.2    | 240     |     |
| V999360            | 2.65    | 7.41    | <0.05   | 1.0     | 0.024   | 0.85    | 19.4    | 23.1    | 0.38    | 392     | 0.86    | 0.53    | 5.9     | 21.2    | 250     |     |
| V999361            | 2.59    | 7.66    | 0.06    | 0.9     | 0.022   | 0.92    | 20.7    | 25.1    | 0.37    | 525     | 0.70    | 0.53    | 6.5     | 54.0    | 240     |     |
| V999362            | 0.88    | 4.50    | 0.06    | 2.2     | 0.005   | 0.14    | 17.8    | 14.2    | 0.01    | 40      | 0.32    | 0.01    | 2.0     | 2.0     | 190     |     |
| V999363            | 2.48    | 8.25    | 0.06    | 1.0     | 0.021   | 0.96    | 21.3    | 27.3    | 0.37    | 461     | 1.15    | 0.52    | 6.8     | 17.9    | 290     |     |
| V999364            | 2.48    | 8.36    | 0.07    | 0.9     | 0.023   | 0.96    | 21.9    | 28.4    | 0.36    | 499     | 0.81    | 0.52    | 7.5     | 18.1    | 250     |     |
| V999365            | 2.29    | 6.41    | <0.05   | 0.9     | 0.017   | 0.92    | 15.6    | 21.6    | 0.33    | 388     | 0.56    | 0.50    | 5.5     | 13.8    | 240     |     |
| V999366            | 2.17    | 6.83    | 0.07    | 0.8     | 0.033   | 0.83    | 16.6    | 24.6    | 0.31    | 360     | 0.66    | 0.46    | 6.3     | 14.9    | 190     |     |
| V999367            | 1.97    | 5.29    | <0.05   | 0.7     | 0.015   | 0.73    | 13.0    | 19.7    | 0.26    | 612     | 1.24    | 0.44    | 5.8     | 13.5    | 220     |     |
| V999368            | 2.02    | 4.87    | <0.05   | 0.6     | 0.016   | 0.63    | 12.6    | 18.9    | 0.26    | 757     | 0.96    | 0.40    | 6.0     | 13.6    | 170     |     |
| V999369            | 2.44    | 5.97    | 0.05    | 0.8     | 0.023   | 0.71    | 22.7    | 20.5    | 0.33    | 761     | 0.91    | 0.42    | 12.4    | 16.6    | 250     |     |
| V999370            |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |     |
| V999371            | 2.28    | 6.13    | 0.07    | 0.9     | 0.020   | 0.70    | 27.2    | 17.3    | 0.38    | 532     | 1.68    | 0.54    | 18.2    | 19.3    | 300     |     |
| V999372            | 3.01    | 5.77    | <0.05   | 0.7     | 0.026   | 0.58    | 16.0    | 15.8    | 0.51    | 596     | 4.02    | 0.53    | 8.8     | 22.3    | 250     |     |
| V999373            | 2.03    | 4.52    | <0.05   | 0.6     | 0.015   | 0.51    | 10.7    | 14.7    | 0.39    | 335     | 2.45    | 0.49    | 6.1     | 14.0    | 230     |     |
| V999374            | 3.01    | 5.37    | <0.05   | 0.6     | 0.020   | 0.49    | 14.6    | 16.6    | 0.42    | 424     | 9.54    | 0.51    | 2.1     | 26.7    | 280     |     |
| V999375            | 1.87    | 5.37    | 0.05    | 0.9     | 0.023   | 0.70    | 20.6    | 17.0    | 0.26    | 365     | 1.79    | 0.47    | 11.2    | 13.9    | 230     |     |
| V999376            | 1.59    | 5.12    | <0.05   | 0.7     | 0.016   | 0.70    | 13.2    | 16.7    | 0.28    | 247     | 1.19    | 0.45    | 6.0     | 10.7    | 200     |     |
| V999377            | 1.47    | 4.65    | <0.05   | 0.6     | 0.019   | 0.65    | 12.9    | 16.2    | 0.26    | 224     | 0.55    | 0.44    | 5.2     | 8.1     | 200     |     |





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Project: WHDM BIG ALEX

**CERTIFICATE OF ANALYSIS WH18246286**

| Sample Description | Method Analyte Units LOD | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 |     |
|--------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----|
|                    |                          | Pb      | Rb      | Re      | S       | Sb      | Sc      | Se      | Sn      | Sr      | Ta      | Te      | Th      | Ti      | Tl      | U   |
|                    |                          | ppm     | ppm     | ppm     | %       | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | %       | ppm     | ppm |
|                    |                          | 0.5     | 0.1     | 0.002   | 0.01    | 0.05    | 0.1     | 1       | 0.2     | 0.2     | 0.05    | 0.05    | 0.01    | 0.005   | 0.02    | 0.1 |
| V999338            |                          | 10.7    | 56.9    | <0.002  | 0.06    | 1.06    | 3.9     | <1      | 1.7     | 49.1    | 1.06    | <0.05   | 7.26    | 0.226   | 0.41    | 1.9 |
| V999339            |                          | 12.7    | 37.0    | <0.002  | <0.01   | 2.38    | 3.5     | <1      | 2.2     | 46.0    | 0.49    | <0.05   | 4.87    | 0.166   | 0.27    | 1.3 |
| V999340            |                          | 11.8    | 42.0    | 0.008   | <0.01   | 2.18    | 4.1     | <1      | 2.7     | 53.1    | 0.54    | <0.05   | 4.97    | 0.224   | 0.35    | 1.4 |
| V999341            |                          | 12.9    | 41.0    | 0.003   | <0.01   | 2.38    | 4.2     | <1      | 2.7     | 56.2    | 0.59    | <0.05   | 5.14    | 0.224   | 0.32    | 1.4 |
| V999342            |                          | 10.2    | 44.2    | 0.004   | 0.01    | 1.58    | 3.6     | <1      | 2.5     | 54.2    | 0.58    | <0.05   | 5.01    | 0.208   | 0.34    | 1.3 |
| V999343            |                          | 12.2    | 43.7    | 0.002   | 0.01    | 2.11    | 3.8     | <1      | 2.6     | 54.9    | 0.70    | <0.05   | 5.54    | 0.235   | 0.32    | 1.8 |
| V999344            |                          | 11.6    | 40.9    | 0.003   | <0.01   | 1.75    | 3.3     | <1      | 3.3     | 50.3    | 0.64    | <0.05   | 5.28    | 0.233   | 0.30    | 1.6 |
| V999345            |                          | 10.4    | 41.1    | 0.003   | 0.01    | 1.03    | 3.5     | <1      | 2.7     | 61.7    | 0.78    | <0.05   | 4.85    | 0.227   | 0.30    | 1.0 |
| V999346            |                          | 15.2    | 61.2    | 0.002   | 0.01    | 0.81    | 4.0     | <1      | 2.6     | 67.2    | 0.78    | <0.05   | 4.47    | 0.234   | 0.44    | 1.1 |
| V999347            |                          | 15.0    | 78.7    | 0.002   | 0.01    | 0.53    | 3.7     | <1      | 2.2     | 60.8    | 1.10    | <0.05   | 5.62    | 0.261   | 0.48    | 1.4 |
| V999348            |                          | 10.2    | 45.1    | <0.002  | 0.01    | 0.96    | 3.1     | <1      | 1.8     | 55.7    | 0.62    | <0.05   | 4.64    | 0.175   | 0.32    | 1.0 |
| V999349            |                          | 10.9    | 38.8    | <0.002  | 0.01    | 1.01    | 3.0     | <1      | 2.1     | 53.0    | 0.53    | <0.05   | 4.45    | 0.179   | 0.27    | 1.1 |
| V999350            |                          | 11.1    | 40.9    | 0.002   | 0.02    | 1.37    | 3.6     | <1      | 2.4     | 57.4    | 0.91    | <0.05   | 4.53    | 0.244   | 0.31    | 1.3 |
| V999351            |                          | 11.0    | 51.4    | 0.002   | 0.01    | 1.09    | 4.7     | <1      | 1.7     | 57.7    | 1.22    | <0.05   | 5.19    | 0.294   | 0.33    | 1.3 |
| V999352            |                          | 8.3     | 33.3    | 0.002   | <0.01   | 0.76    | 2.9     | <1      | 2.0     | 40.3    | 0.36    | <0.05   | 3.50    | 0.141   | 0.25    | 0.8 |
| V999353            |                          | 9.9     | 42.3    | 0.011   | 0.01    | 0.84    | 4.2     | <1      | 4.3     | 64.4    | 0.62    | <0.05   | 4.68    | 0.257   | 0.42    | 1.1 |
| V999354            |                          | 9.2     | 36.9    | <0.002  | <0.01   | 0.88    | 3.9     | <1      | 2.3     | 45.2    | 0.59    | <0.05   | 5.32    | 0.194   | 0.25    | 1.1 |
| V999355            |                          | 10.9    | 41.7    | <0.002  | <0.01   | 1.01    | 3.7     | <1      | 2.1     | 48.0    | 0.91    | <0.05   | 5.65    | 0.226   | 0.28    | 1.2 |
| V999356            |                          | 11.0    | 39.8    | <0.002  | <0.01   | 1.22    | 3.9     | <1      | 2.0     | 48.3    | 1.04    | 0.05    | 5.78    | 0.320   | 0.28    | 1.3 |
| V999357            |                          | 12.9    | 47.8    | <0.002  | <0.01   | 1.12    | 4.5     | <1      | 2.5     | 51.7    | 1.67    | <0.05   | 7.79    | 0.332   | 0.32    | 1.5 |
| V999358            |                          | 31.0    | 38.9    | <0.002  | <0.01   | 0.86    | 3.6     | <1      | 23.2    | 43.9    | 0.66    | <0.05   | 5.35    | 0.182   | 0.25    | 1.1 |
| V999359            |                          | 11.8    | 40.2    | <0.002  | <0.01   | 1.55    | 3.9     | <1      | 2.5     | 43.4    | 1.14    | <0.05   | 6.07    | 0.293   | 0.28    | 1.4 |
| V999360            |                          | 11.3    | 45.5    | 0.002   | <0.01   | 0.82    | 4.6     | <1      | 1.6     | 49.1    | 0.60    | <0.05   | 6.03    | 0.212   | 0.30    | 1.3 |
| V999361            |                          | 10.9    | 48.7    | <0.002  | <0.01   | 0.94    | 5.0     | <1      | 1.7     | 50.5    | 0.64    | <0.05   | 5.91    | 0.215   | 0.31    | 1.3 |
| V999362            |                          | 2.3     | 3.3     | <0.002  | 0.01    | 0.91    | 1.9     | <1      | 0.7     | 163.5   | 0.17    | <0.05   | 5.25    | 0.062   | <0.02   | 0.7 |
| V999363            |                          | 11.7    | 53.2    | <0.002  | <0.01   | 1.01    | 5.1     | <1      | 1.7     | 56.5    | 0.69    | <0.05   | 6.27    | 0.205   | 0.34    | 1.5 |
| V999364            |                          | 11.9    | 57.4    | <0.002  | <0.01   | 1.03    | 5.1     | <1      | 1.7     | 57.8    | 0.73    | <0.05   | 6.41    | 0.210   | 0.35    | 1.6 |
| V999365            |                          | 9.1     | 45.1    | <0.002  | <0.01   | 0.79    | 3.6     | <1      | 1.4     | 45.0    | 0.57    | <0.05   | 5.09    | 0.199   | 0.31    | 1.2 |
| V999366            |                          | 11.8    | 47.6    | <0.002  | <0.01   | 1.06    | 4.1     | <1      | 2.2     | 48.6    | 0.64    | <0.05   | 5.53    | 0.206   | 0.35    | 1.4 |
| V999367            |                          | 10.3    | 39.5    | <0.002  | <0.01   | 1.18    | 3.1     | <1      | 2.0     | 41.3    | 0.65    | <0.05   | 4.48    | 0.155   | 0.32    | 1.2 |
| V999368            |                          | 10.5    | 33.5    | <0.002  | <0.01   | 0.93    | 3.2     | <1      | 1.4     | 35.7    | 0.60    | <0.05   | 4.26    | 0.191   | 0.28    | 1.1 |
| V999369            |                          | 10.9    | 41.0    | <0.002  | <0.01   | 1.24    | 4.7     | <1      | 1.6     | 45.7    | 1.51    | <0.05   | 6.39    | 0.309   | 0.35    | 1.5 |
| V999370            |                          |         |         |         |         |         |         |         |         |         |         |         |         |         |         |     |
| V999371            |                          | 9.2     | 42.2    | 0.005   | <0.01   | 1.07    | 4.9     | <1      | 1.8     | 61.8    | 1.57    | <0.05   | 7.81    | 0.365   | 0.34    | 1.9 |
| V999372            |                          | 9.7     | 29.4    | 0.003   | 0.01    | 1.11    | 5.7     | <1      | 3.1     | 59.2    | 0.89    | <0.05   | 4.26    | 0.270   | 0.26    | 1.1 |
| V999373            |                          | 7.1     | 23.8    | 0.005   | 0.01    | 0.73    | 4.0     | <1      | 1.8     | 44.6    | 0.46    | <0.05   | 3.52    | 0.201   | 0.23    | 0.8 |
| V999374            |                          | 11.1    | 25.0    | 0.009   | 0.03    | 1.17    | 5.2     | <1      | 1.7     | 51.7    | <0.05   | <0.05   | 3.92    | 0.222   | 0.27    | 0.9 |
| V999375            |                          | 9.4     | 42.6    | <0.002  | 0.01    | 0.86    | 4.0     | <1      | 2.1     | 48.6    | 1.37    | <0.05   | 5.37    | 0.285   | 0.29    | 1.1 |
| V999376            |                          | 7.7     | 37.4    | 0.002   | 0.01    | 0.69    | 3.7     | <1      | 1.8     | 46.0    | 0.62    | <0.05   | 4.27    | 0.186   | 0.35    | 0.9 |
| V999377            |                          | 6.4     | 33.5    | <0.002  | 0.01    | 1.48    | 3.3     | <1      | 1.3     | 39.5    | 0.54    | <0.05   | 3.84    | 0.178   | 0.28    | 0.9 |





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**CERTIFICATE OF ANALYSIS WH18246286**

| Sample Description | Method Analyte Units LOD | ME-MS61 | ME-MS61   | ME-MS61   | ME-MS61  | ME-MS61    |
|--------------------|--------------------------|---------|-----------|-----------|----------|------------|
|                    |                          | V ppm 1 | W ppm 0.1 | Y ppm 0.1 | Zn ppm 2 | Zr ppm 0.5 |
| V999338            |                          | 30      | 5.4       | 6.5       | 52       | 40.0       |
| V999339            |                          | 29      | 156.5     | 5.7       | 43       | 24.6       |
| V999340            |                          | 34      | 870       | 5.8       | 43       | 26.2       |
| V999341            |                          | 35      | 253       | 5.9       | 44       | 26.7       |
| V999342            |                          | 29      | 295       | 5.6       | 40       | 26.0       |
| V999343            |                          | 30      | 237       | 5.8       | 44       | 26.2       |
| V999344            |                          | 28      | 185.5     | 5.2       | 41       | 24.1       |
| V999345            |                          | 26      | 142.5     | 5.5       | 34       | 22.8       |
| V999346            |                          | 30      | 241       | 5.0       | 33       | 20.0       |
| V999347            |                          | 27      | 37.4      | 4.8       | 30       | 18.9       |
| V999348            |                          | 26      | 7.5       | 5.6       | 32       | 23.9       |
| V999349            |                          | 23      | 65.5      | 4.9       | 34       | 21.2       |
| V999350            |                          | 28      | 154.0     | 5.2       | 35       | 21.5       |
| V999351            |                          | 38      | 155.5     | 6.0       | 42       | 23.6       |
| V999352            |                          | 27      | 185.5     | 4.8       | 31       | 21.4       |
| V999353            |                          | 34      | 1540      | 5.4       | 37       | 19.5       |
| V999354            |                          | 30      | 8.5       | 5.8       | 43       | 31.9       |
| V999355            |                          | 29      | 8.5       | 5.7       | 46       | 27.5       |
| V999356            |                          | 31      | 14.2      | 6.9       | 52       | 29.3       |
| V999357            |                          | 31      | 3.9       | 7.8       | 47       | 36.7       |
| V999358            |                          | 25      | 14.6      | 5.8       | 42       | 29.7       |
| V999359            |                          | 31      | 65.0      | 6.2       | 50       | 28.8       |
| V999360            |                          | 34      | 73.0      | 6.5       | 50       | 34.6       |
| V999361            |                          | 35      | 50.8      | 6.6       | 53       | 32.8       |
| V999362            |                          | 5       | 1.6       | 5.7       | 7        | 76.1       |
| V999363            |                          | 34      | 20.5      | 7.0       | 55       | 36.1       |
| V999364            |                          | 33      | 28.1      | 7.2       | 54       | 35.4       |
| V999365            |                          | 29      | 11.8      | 5.3       | 49       | 30.4       |
| V999366            |                          | 27      | 12.7      | 5.7       | 45       | 30.9       |
| V999367            |                          | 26      | 11.2      | 4.8       | 45       | 25.7       |
| V999368            |                          | 28      | 343       | 5.9       | 54       | 20.3       |
| V999369            |                          | 35      | 52.8      | 7.6       | 61       | 26.4       |
| V999370            |                          |         |           |           |          |            |
| V999371            |                          | 35      | 1030      | 8.0       | 43       | 28.9       |
| V999372            |                          | 48      | 590       | 6.2       | 45       | 22.1       |
| V999373            |                          | 38      | 1140      | 4.9       | 40       | 23.0       |
| V999374            |                          | 41      | 1820      | 6.4       | 49       | 19.9       |
| V999375            |                          | 27      | 82.0      | 6.9       | 43       | 33.8       |
| V999376            |                          | 28      | 431       | 5.3       | 37       | 22.5       |
| V999377            |                          | 26      | 111.5     | 5.0       | 38       | 19.8       |



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Project: WHDM BIG ALEX

|                                |                   |
|--------------------------------|-------------------|
| <b>CERTIFICATE OF ANALYSIS</b> | <b>WH18246286</b> |
|--------------------------------|-------------------|

| Sample Description | Method | Analyte | Units | LOD | WEI-21    | Au-ICP22 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 |     |      |      |
|--------------------|--------|---------|-------|-----|-----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----|------|------|
|                    |        |         |       |     | Recvd Wt. | Au       | Ag      | Al      | As      | Ba      | Be      | Bi      | Ca      | Cd      | Ce      | Co      | Cr  | Cs   | Cu   |
|                    |        |         |       |     | kg        | ppm      | ppm     | %       | ppm     | ppm     | ppm     | ppm     | %       | ppm     | ppm     | ppm     | ppm | ppm  | ppm  |
|                    |        |         |       |     | 0.02      | 0.001    | 0.01    | 0.01    | 0.2     | 10      | 0.05    | 0.01    | 0.01    | 0.02    | 0.01    | 0.1     | 1   | 0.05 | 0.2  |
| V999378            |        |         |       |     | 0.72      | 0.002    | 0.25    | 2.16    | 7.1     | 300     | 0.62    | 0.12    | 0.29    | 0.24    | 32.0    | 7.5     | 39  | 1.29 | 14.1 |
| V999379            |        |         |       |     | 0.64      | 0.002    | 0.04    | 3.39    | 10.5    | 290     | 0.86    | 0.19    | 0.15    | 0.12    | 51.5    | 6.4     | 38  | 1.91 | 13.7 |



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| <b>CERTIFICATE OF ANALYSIS WH18246286</b> |
|-------------------------------------------|

| Sample Description | Method  | MS61 | MS61 | MS61  | MS61 | MS61  | MS61 | MS61 | MS61 | MS61 | MS61 | MS61 | MS61 | MS61 | MS61 |     |
|--------------------|---------|------|------|-------|------|-------|------|------|------|------|------|------|------|------|------|-----|
|                    | Analyte | Fe   | Ga   | Ge    | Hf   | In    | K    | La   | Li   | Mg   | Mn   | Mo   | Na   | Nb   | Ni   | P   |
|                    | Units   | %    | ppm  | ppm   | ppm  | ppm   | %    | ppm  | ppm  | %    | ppm  | ppm  | %    | ppm  | ppm  | ppm |
|                    | LOD     | 0.01 | 0.05 | 0.05  | 0.1  | 0.005 | 0.01 | 0.5  | 0.2  | 0.01 | 5    | 0.05 | 0.01 | 0.1  | 0.2  | 10  |
| V999378            |         | 1.41 | 5.14 | 0.05  | 0.7  | 0.020 | 0.62 | 15.5 | 18.4 | 0.26 | 230  | 0.52 | 0.44 | 6.2  | 8.0  | 230 |
| V999379            |         | 2.68 | 7.00 | <0.05 | 1.3  | 0.029 | 1.06 | 25.1 | 25.0 | 0.35 | 305  | 0.90 | 0.63 | 9.0  | 15.2 | 230 |

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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| CERTIFICATE OF ANALYSIS | WH18246286 |
|-------------------------|------------|

| Sample Description | Method  | MS61 | MS61 | MS61   | MS61  | MS61 | MS61 | MS61 | MS61 | MS61 | MS61 | MS61  | MS61 | MS61  | MS61 |     |
|--------------------|---------|------|------|--------|-------|------|------|------|------|------|------|-------|------|-------|------|-----|
|                    | Analyte | Pb   | Rb   | Re     | S     | Sb   | Sc   | Se   | Sn   | Sr   | Ta   | Te    | Th   | Ti    | Tl   |     |
|                    | Units   | ppm  | ppm  | ppm    | %     | ppm  | ppm  | ppm  | ppm  | ppm  | ppm  | ppm   | ppm  | %     | ppm  |     |
|                    | LOD     | 0.5  | 0.1  | 0.002  | 0.01  | 0.05 | 0.1  | 1    | 0.2  | 0.2  | 0.05 | 0.05  | 0.01 | 0.005 | 0.02 |     |
| V999378            |         | 7.3  | 34.7 | <0.002 | 0.01  | 0.83 | 3.7  | <1   | 1.6  | 44.2 | 0.64 | <0.05 | 4.21 | 0.197 | 0.28 | 1.0 |
| V999379            |         | 9.5  | 52.2 | <0.002 | <0.01 | 0.79 | 3.7  | <1   | 1.5  | 44.4 | 1.04 | <0.05 | 7.00 | 0.222 | 0.38 | 1.6 |

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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|----------------------------------------------|
| <b>CERTIFICATE OF ANALYSIS    WH18246286</b> |
|----------------------------------------------|

| Sample Description | Method<br>Analyte<br>Units<br>LOD | ME-MS61<br>V<br>ppm<br>1 | ME-MS61<br>W<br>ppm<br>0.1 | ME-MS61<br>Y<br>ppm<br>0.1 | ME-MS61<br>Zn<br>ppm<br>2 | ME-MS61<br>Zr<br>ppm<br>0.5 |
|--------------------|-----------------------------------|--------------------------|----------------------------|----------------------------|---------------------------|-----------------------------|
| V999378            |                                   | 27                       | 42.7                       | 6.2                        | 35                        | 25.5                        |
| V999379            |                                   | 30                       | 5.9                        | 5.7                        | 56                        | 39.3                        |



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**CERTIFICATE OF ANALYSIS WH18246286**

### CERTIFICATE COMMENTS

#### ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.  
ME-MS61

#### LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

|        |        |        |        |
|--------|--------|--------|--------|
| CRU-31 | CRU-QC | LOG-21 | PUL-31 |
| PUL-QC | SPL-21 | WEI-21 |        |

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

|          |         |
|----------|---------|
| Au-ICP22 | ME-MS61 |
|----------|---------|