



ALS Canada Ltd.  
2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **ROCKHAVEN RESOURCES LTD.**  
**C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**1016 - 510 W HASTINGS STREET**  
**VANCOUVER BC V6B 1L8**

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Finalized Date: 23-SEP-2012  
Account: ROCKHA

**CERTIFICATE WH12210744**

Project: Klaza-123

P.O. No.: Batch 3

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 8-SEP-2012.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

JARED TARSWELL

**SAMPLE PREPARATION**

| ALS CODE | DESCRIPTION                        |
|----------|------------------------------------|
| WEI-21   | Received Sample Weight             |
| LOG-22d  | Sample login - Rcd w/o BarCode dup |
| LOG-22   | Sample login - Rcd w/o BarCode     |
| SPL-21d  | Split sample - duplicate           |
| PUL-31d  | Pulverize Split - duplicate        |
| LOG-24   | Pulp Login - Rcd w/o Barcode       |
| CRU-QC   | Crushing QC Test                   |
| CRU-31   | Fine crushing - 70% <2mm           |
| PUL-QC   | Pulverizing QC Test                |
| SPL-21   | Split sample - riffle splitter     |
| PUL-31   | Pulverize split to 85% <75 um      |

**ANALYTICAL PROCEDURES**

| ALS CODE | DESCRIPTION                    | INSTRUMENT |
|----------|--------------------------------|------------|
| Aq-OG62  | Ore Grade Ag - Four Acid       | VARIABLE   |
| ME-OG62  | Ore Grade Elements - Four Acid | ICP-AES    |
| Au-AA24  | Au 50g FA AA finish            | AAS        |
| ME-MS61  | 48 element four acid ICP-MS    |            |

To: **ROCKHAVEN RESOURCES LTD.**  
**ATTN: JOAN MARIACHER**  
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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 WH12210744**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI-21<br>Recvd Wt.<br>kg | Au-AA24<br>Au<br>ppm | ME-MS61<br>Ag<br>ppm | ME-MS61<br>Al<br>% | ME-MS61<br>As<br>ppm | ME-MS61<br>Ba<br>ppm | ME-MS61<br>Be<br>ppm | ME-MS61<br>Bi<br>ppm | ME-MS61<br>Ca<br>% | ME-MS61<br>Cd<br>ppm | ME-MS61<br>Ce<br>ppm | ME-MS61<br>Co<br>ppm | ME-MS61<br>Cr<br>ppm | ME-MS61<br>Cs<br>ppm | ME-MS61<br>Cu<br>ppm |
|--------------------|-----------------------------------|---------------------------|----------------------|----------------------|--------------------|----------------------|----------------------|----------------------|----------------------|--------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                    |                                   | 0.02                      | 0.005                | 0.01                 | 0.01               | 0.2                  | 10                   | 0.05                 | 0.01                 | 0.01               | 0.02                 | 0.01                 | 0.1                  | 1                    | 0.05                 | 0.2                  |
| M358666            |                                   | 2.62                      | 0.183                | 2.44                 | 6.54               | 150.0                | 940                  | 1.46                 | 2.48                 | 2.37               | 12.75                | 51.9                 | 29.5                 | 7                    | 21.2                 | 16.3                 |
| M358667            |                                   | 4.36                      | 0.010                | 0.28                 | 6.96               | 17.4                 | 2290                 | 1.54                 | 0.78                 | 2.38               | 0.19                 | 39.2                 | 6.1                  | 9                    | 21.0                 | 32.3                 |
| M358668            |                                   | 2.35                      | 0.009                | 0.19                 | 6.86               | 25.5                 | 2100                 | 1.55                 | 0.32                 | 2.45               | 0.15                 | 37.7                 | 6.7                  | 9                    | 20.2                 | 10.3                 |
| M358669            |                                   | 4.86                      | 0.011                | 0.53                 | 6.66               | 29.5                 | 1680                 | 1.43                 | 0.94                 | 2.70               | 0.21                 | 36.7                 | 5.6                  | 8                    | 16.75                | 38.9                 |
| M358670            |                                   | 2.51                      | 0.011                | 0.43                 | 7.01               | 38.5                 | 1640                 | 1.61                 | 0.69                 | 2.77               | 0.22                 | 42.4                 | 6.3                  | 8                    | 17.75                | 38.2                 |
| M358671            |                                   | 4.07                      | 0.008                | 0.22                 | 6.84               | 20.3                 | 1490                 | 1.52                 | 0.49                 | 1.96               | 0.13                 | 48.1                 | 4.4                  | 8                    | 10.75                | 23.7                 |
| M358672            |                                   | 0.26                      | 2.38                 | 26.3                 | 5.80               | 3280                 | 1390                 | 1.33                 | 20.7                 | 2.19               | 75.8                 | 42.9                 | 10.0                 | 19                   | 12.85                | 443                  |
| M358673            |                                   | 4.30                      | 0.077                | 1.21                 | 6.88               | 136.5                | 1560                 | 1.62                 | 0.96                 | 2.09               | 5.69                 | 47.6                 | 5.5                  | 6                    | 17.10                | 18.9                 |
| M358674            |                                   | 4.95                      | 2.85                 | 17.35                | 6.08               | 711                  | 1150                 | 1.23                 | 13.20                | 1.81               | 43.4                 | 52.0                 | 22.6                 | 6                    | 8.17                 | 82.5                 |
| M358675            |                                   | 3.82                      | 0.005                | 0.15                 | 0.10               | 5                    | 30                   | 0.11                 | 0.10                 | 21.0               | 0.23                 | 1.46                 | 0.7                  | <1                   | 0.34                 | 2.1                  |
| M358676            |                                   | 3.99                      | 0.072                | 3.84                 | 7.28               | 63.1                 | 1330                 | 1.56                 | 4.33                 | 1.78               | 2.51                 | 36.7                 | 23.8                 | 8                    | 9.72                 | 4.4                  |
| M358677            |                                   | 2.73                      | 0.180                | 20.9                 | 7.94               | 98.8                 | 250                  | 1.71                 | 2.58                 | 0.99               | 11.35                | 15.55                | 13.2                 | 9                    | 6.91                 | 107.0                |
| M358678            |                                   | 5.86                      | 0.052                | 6.24                 | 7.58               | 94.9                 | 3460                 | 1.92                 | 7.31                 | 2.67               | 0.76                 | 14.90                | 7.1                  | 8                    | 12.25                | 4.9                  |
| M358679            |                                   | 2.37                      | 0.005                | 0.57                 | 8.10               | 31.1                 | 2430                 | 1.81                 | 1.00                 | 1.65               | 0.40                 | 13.15                | 10.8                 | 9                    | 10.80                | 2.2                  |
| M358680            |                                   | 3.78                      | 0.005                | 0.40                 | 7.52               | 22.7                 | 2470                 | 1.82                 | 0.99                 | 2.60               | 0.21                 | 18.05                | 7.3                  | 7                    | 11.95                | 7.5                  |
| M358681            |                                   | 5.32                      | 0.303                | 2.11                 | 7.62               | 82.5                 | 660                  | 1.46                 | 3.15                 | 1.75               | 7.82                 | 14.95                | 17.5                 | 9                    | 8.16                 | 11.4                 |
| M358682            |                                   | 3.70                      | <0.005               | 0.05                 | 0.15               | <5                   | 50                   | 0.10                 | 0.11                 | 20.7               | 0.11                 | 1.26                 | 0.7                  | <1                   | 1.89                 | 1.5                  |
| M358683            |                                   | 2.27                      | 0.031                | 1.88                 | 7.87               | 60.9                 | 2390                 | 1.54                 | 2.57                 | 1.24               | 2.68                 | 14.30                | 15.5                 | 8                    | 5.69                 | 19.2                 |
| M358684            |                                   | 3.12                      | 0.035                | 2.09                 | 7.28               | 80.5                 | 820                  | 1.32                 | 3.60                 | 0.84               | 1.49                 | 12.55                | 13.6                 | 6                    | 4.05                 | 41.4                 |
| M358685            |                                   | 2.53                      | 0.013                | 0.74                 | 7.75               | 17.9                 | 2080                 | 1.58                 | 1.28                 | 0.72               | 1.41                 | 15.95                | 10.9                 | 7                    | 8.05                 | 16.8                 |
| M358686            |                                   | 0.27                      | 2.28                 | 27.5                 | 5.79               | 3290                 | 1510                 | 1.37                 | 20.4                 | 2.18               | 77.7                 | 44.4                 | 10.5                 | 19                   | 13.45                | 439                  |
| M358687            |                                   | 6.11                      | 0.019                | 0.99                 | 7.35               | 36.8                 | 1760                 | 1.66                 | 1.18                 | 1.93               | 1.22                 | 44.1                 | 12.0                 | 7                    | 10.75                | 30.6                 |
| M358688            |                                   | 2.86                      | 0.222                | 3.83                 | 7.35               | 161.5                | 1090                 | 1.52                 | 0.98                 | 2.87               | 21.5                 | 100.5                | 40.7                 | 7                    | 13.15                | 33.6                 |
| M358689            |                                   | 4.96                      | 0.055                | 3.07                 | 7.48               | 188.0                | 1420                 | 1.77                 | 0.94                 | 2.42               | 7.76                 | 67.3                 | 18.1                 | 8                    | 14.30                | 60.9                 |
| M358690            |                                   | 2.95                      | 0.117                | 11.45                | 7.10               | 1150                 | 720                  | 1.51                 | 2.29                 | 1.70               | 21.1                 | 62.0                 | 17.7                 | 7                    | 9.98                 | 173.0                |
| M358691            |                                   | 4.58                      | 0.017                | 1.13                 | 7.75               | 44.9                 | 2020                 | 1.45                 | 1.00                 | 2.11               | 1.37                 | 49.9                 | 18.8                 | 9                    | 8.25                 | 28.8                 |
| M358692            |                                   | 2.97                      | 0.515                | 14.95                | 7.13               | 443                  | 260                  | 1.31                 | 2.76                 | 1.01               | 66.4                 | 63.9                 | 15.4                 | 8                    | 5.80                 | 100.5                |
| M358693            |                                   | 4.99                      | 0.014                | 1.30                 | 7.85               | 49.4                 | 2260                 | 1.73                 | 1.26                 | 2.47               | 1.19                 | 66.5                 | 12.9                 | 8                    | 9.38                 | 40.8                 |
| M358694            |                                   | <0.02                     | 0.015                | 1.33                 | 7.56               | 54.1                 | 2180                 | 1.72                 | 1.24                 | 2.41               | 1.26                 | 68.2                 | 12.6                 | 8                    | 9.31                 | 40.0                 |
| M358695            |                                   | 3.35                      | <0.005               | 0.28                 | 6.99               | 11.1                 | 2460                 | 1.70                 | 0.56                 | 2.98               | 0.21                 | 65.8                 | 14.0                 | 8                    | 10.40                | 5.9                  |
| M358696            |                                   | 4.93                      | 0.015                | 0.93                 | 7.31               | 42.5                 | 3400                 | 1.62                 | 0.90                 | 1.64               | 0.54                 | 28.4                 | 8.1                  | 9                    | 7.88                 | 12.0                 |
| M358697            |                                   | 3.14                      | 0.502                | 7.26                 | 7.28               | 1915                 | 510                  | 1.25                 | 4.95                 | 0.32               | 42.7                 | 15.35                | 9.1                  | 9                    | 4.99                 | 99.2                 |
| M358698            |                                   | 4.04                      | 0.822                | 23.2                 | 7.08               | 571                  | 390                  | 1.28                 | 12.05                | 0.23               | 37.7                 | 19.55                | 15.5                 | 9                    | 4.89                 | 83.0                 |
| M358699            |                                   | 5.50                      | 0.540                | 20.4                 | 7.45               | 765                  | 150                  | 1.35                 | 8.31                 | 0.23               | 19.05                | 52.9                 | 37.2                 | 9                    | 4.51                 | 50.6                 |
| M358700            |                                   | 6.29                      | 1.340                | 29.1                 | 5.65               | 4260                 | 640                  | 1.08                 | 26.7                 | 0.16               | 91.4                 | 33.2                 | 113.0                | 10                   | 3.34                 | 123.5                |
| M358701            |                                   | 2.65                      | 0.282                | 12.00                | 6.90               | 268                  | 140                  | 1.29                 | 8.09                 | 0.45               | 23.0                 | 53.4                 | 52.4                 | 8                    | 4.49                 | 44.8                 |



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| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-MS61<br>Fe<br>% | ME-MS61<br>Ga<br>ppm | ME-MS61<br>Ge<br>ppm | ME-MS61<br>Hf<br>ppm | ME-MS61<br>In<br>ppm | ME-MS61<br>K<br>% | ME-MS61<br>La<br>ppm | ME-MS61<br>Li<br>ppm | ME-MS61<br>Mg<br>% | ME-MS61<br>Mn<br>ppm | ME-MS61<br>Mo<br>ppm | ME-MS61<br>Na<br>% | ME-MS61<br>Nb<br>ppm | ME-MS61<br>Ni<br>ppm | ME-MS61<br>P<br>ppm |
|--------------------|-----------------------------------|--------------------|----------------------|----------------------|----------------------|----------------------|-------------------|----------------------|----------------------|--------------------|----------------------|----------------------|--------------------|----------------------|----------------------|---------------------|
|                    |                                   | 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                  |
| M358666            |                                   | 4.79               | 13.95                | 0.16                 | 1.2                  | 0.690                | 3.02              | 31.3                 | 12.6                 | 1.00               | 1770                 | 0.82                 | 0.04               | 5.3                  | 5.4                  | 500                 |
| M358667            |                                   | 2.91               | 16.15                | 0.14                 | 1.5                  | 0.106                | 3.04              | 19.3                 | 25.8                 | 0.62               | 629                  | 1.95                 | 1.10               | 7.2                  | 5.1                  | 630                 |
| M358668            |                                   | 2.99               | 16.90                | 0.14                 | 1.4                  | 0.084                | 3.21              | 17.6                 | 18.5                 | 0.60               | 780                  | 2.74                 | 1.16               | 7.3                  | 2.7                  | 630                 |
| M358669            |                                   | 2.44               | 16.10                | 0.15                 | 1.4                  | 0.097                | 3.07              | 17.7                 | 46.1                 | 0.54               | 962                  | 1.33                 | 0.50               | 7.3                  | 2.3                  | 580                 |
| M358670            |                                   | 2.54               | 16.90                | 0.18                 | 1.5                  | 0.107                | 3.21              | 19.7                 | 35.3                 | 0.62               | 1280                 | 1.78                 | 0.52               | 7.9                  | 2.4                  | 590                 |
| M358671            |                                   | 2.01               | 14.85                | 0.15                 | 2.2                  | 0.092                | 3.19              | 23.9                 | 20.1                 | 0.49               | 605                  | 1.97                 | 0.89               | 7.7                  | 1.7                  | 380                 |
| M358672            |                                   | 6.61               | 14.00                | 0.16                 | 1.0                  | 1.530                | 2.59              | 22.8                 | 21.1                 | 0.89               | 1880                 | 11.95                | 0.04               | 5.1                  | 14.1                 | 440                 |
| M358673            |                                   | 2.98               | 14.90                | 0.16                 | 1.7                  | 0.300                | 3.01              | 27.0                 | 10.5                 | 0.75               | 2010                 | 1.78                 | 0.04               | 6.7                  | 2.1                  | 410                 |
| M358674            |                                   | 5.00               | 13.45                | 0.18                 | 1.2                  | 0.617                | 2.74              | 29.3                 | 12.8                 | 0.65               | 2540                 | 7.82                 | 0.03               | 4.3                  | 2.1                  | 450                 |
| M358675            |                                   | 0.49               | 0.31                 | 0.10                 | <0.1                 | 0.006                | 0.04              | 0.8                  | 1.2                  | 13.25              | 223                  | 0.11                 | 0.01               | 0.2                  | 1.6                  | 190                 |
| M358676            |                                   | 2.63               | 16.50                | 0.16                 | 1.3                  | 0.361                | 3.73              | 18.7                 | 6.4                  | 0.74               | 1460                 | 1.41                 | 0.04               | 5.3                  | 2.4                  | 620                 |
| M358677            |                                   | 4.07               | 17.45                | 0.16                 | 1.3                  | 0.181                | 3.95              | 7.4                  | 6.0                  | 0.60               | 842                  | 2.40                 | 0.05               | 6.7                  | 2.6                  | 690                 |
| M358678            |                                   | 2.10               | 17.45                | 0.14                 | 1.3                  | 0.190                | 3.79              | 7.2                  | 11.2                 | 0.99               | 1520                 | 4.72                 | 0.05               | 5.5                  | 2.5                  | 660                 |
| M358679            |                                   | 1.68               | 16.30                | 0.15                 | 1.3                  | 0.106                | 3.84              | 6.6                  | 16.3                 | 0.78               | 649                  | 4.25                 | 0.06               | 5.6                  | 2.5                  | 720                 |
| M358680            |                                   | 1.91               | 16.80                | 0.17                 | 1.5                  | 0.206                | 3.58              | 9.4                  | 10.1                 | 0.92               | 1000                 | 3.51                 | 0.05               | 6.1                  | 2.3                  | 600                 |
| M358681            |                                   | 3.16               | 14.65                | 0.15                 | 1.2                  | 0.410                | 3.93              | 6.9                  | 7.0                  | 0.77               | 1450                 | 8.25                 | 0.05               | 5.5                  | 2.0                  | 660                 |
| M358682            |                                   | 0.50               | 0.51                 | 0.09                 | <0.1                 | <0.005               | 0.10              | 0.6                  | 2.2                  | 13.20              | 223                  | 0.17                 | <0.01              | 0.5                  | 1.5                  | 190                 |
| M358683            |                                   | 2.45               | 13.50                | 0.15                 | 1.6                  | 0.477                | 4.08              | 6.9                  | 6.8                  | 0.64               | 1190                 | 11.45                | 0.06               | 5.8                  | 1.6                  | 610                 |
| M358684            |                                   | 2.58               | 11.80                | 0.15                 | 1.6                  | 0.252                | 3.56              | 6.5                  | 6.3                  | 0.45               | 468                  | 10.20                | 0.06               | 5.2                  | 1.3                  | 460                 |
| M358685            |                                   | 1.66               | 12.95                | 0.17                 | 1.9                  | 0.241                | 3.81              | 8.3                  | 8.7                  | 0.48               | 420                  | 7.66                 | 0.07               | 6.6                  | 1.8                  | 570                 |
| M358686            |                                   | 6.54               | 14.45                | 0.14                 | 1.0                  | 1.605                | 2.60              | 23.8                 | 22.6                 | 0.88               | 1880                 | 12.25                | 0.04               | 5.4                  | 14.9                 | 430                 |
| M358687            |                                   | 1.80               | 15.00                | 0.16                 | 1.8                  | 0.121                | 3.61              | 23.1                 | 11.2                 | 0.75               | 1050                 | 5.33                 | 0.05               | 6.0                  | 2.3                  | 520                 |
| M358688            |                                   | 3.13               | 17.40                | 0.21                 | 1.6                  | 0.095                | 3.40              | 54.6                 | 11.2                 | 0.99               | 3780                 | 40.6                 | 0.03               | 5.7                  | 2.9                  | 570                 |
| M358689            |                                   | 2.60               | 18.10                | 0.19                 | 1.7                  | 0.188                | 3.63              | 36.7                 | 11.0                 | 0.85               | 2050                 | 11.60                | 0.04               | 6.5                  | 2.5                  | 630                 |
| M358690            |                                   | 4.11               | 16.45                | 0.19                 | 1.6                  | 0.439                | 3.38              | 34.1                 | 8.2                  | 0.81               | 1650                 | 7.18                 | 0.05               | 6.5                  | 2.5                  | 530                 |
| M358691            |                                   | 3.21               | 17.00                | 0.16                 | 1.4                  | 0.178                | 3.13              | 25.2                 | 23.1                 | 0.74               | 1380                 | 11.45                | 0.49               | 6.5                  | 2.6                  | 670                 |
| M358692            |                                   | 5.20               | 17.20                | 0.19                 | 1.2                  | 1.340                | 3.56              | 31.4                 | 6.8                  | 0.52               | 1990                 | 9.08                 | 0.04               | 4.2                  | 3.3                  | 580                 |
| M358693            |                                   | 2.67               | 17.35                | 0.20                 | 1.6                  | 0.252                | 3.90              | 37.2                 | 8.4                  | 0.88               | 1240                 | 14.35                | 0.06               | 5.7                  | 3.8                  | 660                 |
| M358694            |                                   | 2.61               | 17.05                | 0.21                 | 1.4                  | 0.245                | 3.79              | 37.2                 | 8.1                  | 0.85               | 1220                 | 12.55                | 0.06               | 5.8                  | 2.8                  | 650                 |
| M358695            |                                   | 2.24               | 17.05                | 0.20                 | 1.2                  | 0.239                | 3.69              | 34.8                 | 7.5                  | 1.09               | 936                  | 13.00                | 0.05               | 5.1                  | 2.9                  | 660                 |
| M358696            |                                   | 1.74               | 15.10                | 0.15                 | 1.6                  | 0.314                | 3.78              | 14.8                 | 7.4                  | 0.69               | 870                  | 6.19                 | 0.06               | 6.3                  | 1.7                  | 660                 |
| M358697            |                                   | 3.62               | 16.20                | 0.15                 | 1.4                  | 0.780                | 3.75              | 7.5                  | 6.2                  | 0.34               | 981                  | 37.0                 | 0.05               | 6.3                  | 1.9                  | 610                 |
| M358698            |                                   | 3.56               | 14.40                | 0.15                 | 1.6                  | 0.442                | 3.65              | 10.3                 | 5.2                  | 0.34               | 256                  | 4.85                 | 0.05               | 4.9                  | 2.2                  | 580                 |
| M358699            |                                   | 5.74               | 16.50                | 0.17                 | 1.3                  | 0.294                | 3.72              | 26.2                 | 5.1                  | 0.32               | 198                  | 14.20                | 0.05               | 4.9                  | 2.4                  | 610                 |
| M358700            |                                   | 14.85              | 15.30                | 0.19                 | 1.3                  | 4.30                 | 2.82              | 17.3                 | 3.6                  | 0.23               | 136                  | 16.70                | 0.04               | 4.4                  | 4.1                  | 450                 |
| M358701            |                                   | 5.66               | 17.70                | 0.21                 | 1.4                  | 0.368                | 3.55              | 27.5                 | 5.3                  | 0.40               | 652                  | 24.7                 | 0.04               | 6.0                  | 4.0                  | 570                 |



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Project: Klaza-123

**CERTIFICATE OF ANALYSIS WH12210744**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-MS61<br>Pb<br>ppm<br>0.5 | ME-MS61<br>Rb<br>ppm<br>0.1 | ME-MS61<br>Re<br>ppm<br>0.002 | ME-MS61<br>S<br>%<br>0.01 | ME-MS61<br>Sb<br>ppm<br>0.05 | ME-MS61<br>Sc<br>ppm<br>0.1 | ME-MS61<br>Se<br>ppm<br>1 | ME-MS61<br>Sn<br>ppm<br>0.2 | ME-MS61<br>Sr<br>ppm<br>0.2 | ME-MS61<br>Ta<br>ppm<br>0.05 | ME-MS61<br>Te<br>ppm<br>0.05 | ME-MS61<br>Th<br>ppm<br>0.2 | ME-MS61<br>Ti<br>%<br>0.005 | ME-MS61<br>Tl<br>ppm<br>0.02 | ME-MS61<br>U<br>ppm<br>0.1 |
|--------------------|-----------------------------------|-----------------------------|-----------------------------|-------------------------------|---------------------------|------------------------------|-----------------------------|---------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|----------------------------|
| M358666            |                                   | 307                         | 186.5                       | <0.002                        | 2.35                      | 8.89                         | 10.3                        | 2                         | 3.7                         | 102.0                       | 0.47                         | 0.35                         | 12.8                        | 0.180                       | 2.91                         | 4.5                        |
| M358667            |                                   | 20.3                        | 115.0                       | <0.002                        | 0.13                      | 7.09                         | 9.9                         | 1                         | 1.6                         | 291                         | 0.59                         | <0.05                        | 11.0                        | 0.276                       | 1.66                         | 3.4                        |
| M358668            |                                   | 18.9                        | 125.0                       | <0.002                        | 0.34                      | 4.57                         | 10.2                        | 1                         | 1.6                         | 268                         | 0.60                         | <0.05                        | 10.4                        | 0.279                       | 2.10                         | 3.3                        |
| M358669            |                                   | 18.5                        | 107.5                       | <0.002                        | 0.23                      | 7.84                         | 8.5                         | <1                        | 1.7                         | 237                         | 0.66                         | 0.14                         | 11.8                        | 0.259                       | 2.06                         | 4.3                        |
| M358670            |                                   | 20.0                        | 124.5                       | <0.002                        | 0.38                      | 8.13                         | 9.5                         | 1                         | 1.8                         | 234                         | 0.69                         | 0.08                         | 12.2                        | 0.266                       | 2.49                         | 4.6                        |
| M358671            |                                   | 21.8                        | 145.5                       | <0.002                        | 0.21                      | 6.46                         | 6.3                         | 1                         | 1.3                         | 169.0                       | 1.06                         | <0.05                        | 22.3                        | 0.165                       | 2.06                         | 6.4                        |
| M358672            |                                   | 2800                        | 156.0                       | 0.004                         | 4.69                      | 87.7                         | 7.3                         | 1                         | 7.8                         | 89.4                        | 0.48                         | 0.45                         | 10.9                        | 0.182                       | 2.40                         | 5.7                        |
| M358673            |                                   | 134.0                       | 184.0                       | 0.003                         | 1.22                      | 7.93                         | 7.5                         | 1                         | 1.9                         | 101.5                       | 0.75                         | 0.08                         | 20.3                        | 0.170                       | 2.65                         | 6.9                        |
| M358674            |                                   | 2850                        | 197.5                       | 0.004                         | 4.40                      | 30.3                         | 7.6                         | 1                         | 4.5                         | 85.2                        | 0.44                         | 0.22                         | 13.0                        | 0.162                       | 2.90                         | 3.3                        |
| M358675            |                                   | 13.7                        | 3.2                         | 0.002                         | 0.01                      | 0.30                         | 0.3                         | <1                        | <0.2                        | 45.2                        | <0.05                        | <0.05                        | 0.2                         | <0.005                      | 0.04                         | 0.7                        |
| M358676            |                                   | 161.5                       | 261                         | <0.002                        | 1.34                      | 5.33                         | 10.4                        | 1                         | 3.3                         | 52.2                        | 0.43                         | 1.50                         | 12.9                        | 0.213                       | 3.69                         | 3.6                        |
| M358677            |                                   | 537                         | 248                         | <0.002                        | 3.84                      | 40.5                         | 11.7                        | 2                         | 6.0                         | 32.2                        | 0.50                         | 0.73                         | 11.8                        | 0.278                       | 3.28                         | 3.9                        |
| M358678            |                                   | 68.0                        | 204                         | <0.002                        | 0.69                      | 6.58                         | 11.0                        | 1                         | 2.5                         | 129.0                       | 0.45                         | 4.45                         | 12.0                        | 0.235                       | 3.34                         | 4.1                        |
| M358679            |                                   | 33.6                        | 222                         | 0.003                         | 0.60                      | 5.74                         | 11.3                        | 3                         | 2.8                         | 79.9                        | 0.45                         | 0.32                         | 12.7                        | 0.235                       | 3.30                         | 4.3                        |
| M358680            |                                   | 18.7                        | 195.0                       | <0.002                        | 0.40                      | 5.80                         | 9.4                         | 1                         | 2.4                         | 121.0                       | 0.55                         | 0.19                         | 16.0                        | 0.214                       | 3.10                         | 4.9                        |
| M358681            |                                   | 166.0                       | 220                         | 0.004                         | 1.93                      | 5.31                         | 9.3                         | 2                         | 4.9                         | 69.6                        | 0.40                         | 0.49                         | 11.8                        | 0.240                       | 3.15                         | 3.5                        |
| M358682            |                                   | 3.4                         | 9.7                         | 0.002                         | 0.01                      | 0.11                         | 0.2                         | 1                         | 0.3                         | 48.1                        | 0.05                         | <0.05                        | <0.2                        | <0.005                      | 0.09                         | 0.8                        |
| M358683            |                                   | 157.5                       | 239                         | 0.004                         | 1.41                      | 5.41                         | 8.9                         | 2                         | 6.5                         | 53.2                        | 0.54                         | 0.33                         | 18.1                        | 0.203                       | 3.42                         | 3.8                        |
| M358684            |                                   | 171.0                       | 198.5                       | 0.005                         | 1.85                      | 9.03                         | 6.7                         | 2                         | 4.8                         | 31.0                        | 0.59                         | 0.49                         | 20.4                        | 0.153                       | 2.93                         | 5.2                        |
| M358685            |                                   | 124.0                       | 234                         | 0.002                         | 0.75                      | 7.20                         | 9.3                         | 1                         | 3.9                         | 41.6                        | 0.67                         | 0.20                         | 20.5                        | 0.196                       | 3.24                         | 5.5                        |
| M358686            |                                   | 2790                        | 173.0                       | 0.003                         | 4.65                      | 90.8                         | 7.7                         | 1                         | 8.1                         | 93.2                        | 0.46                         | 0.39                         | 11.5                        | 0.182                       | 2.39                         | 5.9                        |
| M358687            |                                   | 104.0                       | 222                         | 0.005                         | 0.55                      | 9.84                         | 8.7                         | 1                         | 1.6                         | 101.0                       | 0.63                         | 0.12                         | 19.1                        | 0.202                       | 3.18                         | 6.3                        |
| M358688            |                                   | 937                         | 233                         | 0.004                         | 1.81                      | 9.72                         | 9.8                         | 2                         | 3.3                         | 107.5                       | 0.52                         | 0.17                         | 15.4                        | 0.218                       | 3.55                         | 5.5                        |
| M358689            |                                   | 324                         | 210                         | 0.009                         | 0.86                      | 13.15                        | 10.7                        | 2                         | 3.2                         | 136.0                       | 0.55                         | 0.11                         | 14.2                        | 0.238                       | 3.39                         | 5.1                        |
| M358690            |                                   | 2000                        | 218                         | 0.011                         | 2.48                      | 22.8                         | 9.7                         | 1                         | 6.2                         | 93.1                        | 0.66                         | 0.40                         | 17.7                        | 0.221                       | 2.96                         | 6.4                        |
| M358691            |                                   | 146.5                       | 161.0                       | 0.022                         | 0.84                      | 7.38                         | 10.9                        | 1                         | 2.6                         | 168.5                       | 0.56                         | 0.14                         | 12.2                        | 0.279                       | 2.47                         | 3.8                        |
| M358692            |                                   | 3120                        | 230                         | 0.010                         | 4.47                      | 25.6                         | 11.1                        | 2                         | 7.4                         | 31.4                        | 0.40                         | 0.30                         | 12.5                        | 0.204                       | 3.21                         | 2.9                        |
| M358693            |                                   | 103.5                       | 252                         | 0.050                         | 0.89                      | 7.65                         | 11.4                        | 1                         | 3.3                         | 119.0                       | 0.48                         | 0.13                         | 15.0                        | 0.231                       | 3.50                         | 5.4                        |
| M358694            |                                   | 109.0                       | 239                         | 0.036                         | 0.88                      | 7.56                         | 10.9                        | 2                         | 3.3                         | 114.5                       | 0.46                         | 0.12                         | 14.3                        | 0.226                       | 3.38                         | 5.2                        |
| M358695            |                                   | 20.1                        | 204                         | 0.028                         | 0.44                      | 4.48                         | 10.7                        | 1                         | 2.3                         | 177.5                       | 0.38                         | 0.06                         | 10.9                        | 0.225                       | 3.32                         | 4.7                        |
| M358696            |                                   | 57.2                        | 251                         | 0.011                         | 0.50                      | 7.52                         | 11.1                        | 1                         | 2.9                         | 84.7                        | 0.48                         | <0.05                        | 15.0                        | 0.246                       | 3.41                         | 5.7                        |
| M358697            |                                   | 645                         | 223                         | 0.007                         | 3.28                      | 29.0                         | 10.6                        | 1                         | 7.0                         | 16.1                        | 0.47                         | 0.70                         | 12.0                        | 0.243                       | 2.78                         | 3.5                        |
| M358698            |                                   | 1575                        | 238                         | 0.003                         | 3.52                      | 16.80                        | 9.7                         | 3                         | 9.6                         | 20.8                        | 0.54                         | 3.46                         | 15.4                        | 0.194                       | 2.98                         | 6.6                        |
| M358699            |                                   | 1135                        | 225                         | 0.004                         | 5.89                      | 13.30                        | 10.0                        | 2                         | 14.0                        | 25.7                        | 0.45                         | 2.62                         | 13.7                        | 0.216                       | 2.94                         | 3.2                        |
| M358700            |                                   | 1415                        | 179.0                       | 0.002                         | >10.0                     | 24.8                         | 8.3                         | 4                         | 15.8                        | 14.7                        | 0.34                         | 6.60                         | 8.3                         | 0.174                       | 2.12                         | 2.5                        |
| M358701            |                                   | 1385                        | 217                         | 0.005                         | 5.85                      | 6.44                         | 10.6                        | 2                         | 12.4                        | 27.9                        | 0.46                         | 1.94                         | 11.6                        | 0.233                       | 2.63                         | 2.5                        |



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 Finalized Date: 23-SEP-2012  
 Account: ROCKHA

Project: Klaza-123

**CERTIFICATE OF ANALYSIS WH12210744**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | 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 | Ag-OG62<br>Ag<br>ppm<br>1 |
|--------------------|-----------------------------------|--------------------------|----------------------------|----------------------------|---------------------------|-----------------------------|---------------------------|
| M358666            |                                   | 65                       | 3.0                        | 12.6                       | 1120                      | 32.2                        | 3                         |
| M358667            |                                   | 76                       | 2.5                        | 13.3                       | 59                        | 37.8                        | 1                         |
| M358668            |                                   | 77                       | 3.1                        | 13.9                       | 50                        | 35.7                        | <1                        |
| M358669            |                                   | 68                       | 2.5                        | 12.8                       | 60                        | 37.2                        | 1                         |
| M358670            |                                   | 71                       | 2.6                        | 14.1                       | 57                        | 38.5                        | 1                         |
| M358671            |                                   | 43                       | 1.9                        | 14.1                       | 37                        | 48.5                        | 1                         |
| M358672            |                                   | 56                       | 5.0                        | 9.3                        | 5410                      | 24.5                        | 25                        |
| M358673            |                                   | 47                       | 2.8                        | 13.3                       | 446                       | 41.2                        | 1                         |
| M358674            |                                   | 54                       | 4.5                        | 8.9                        | 3670                      | 29.5                        | 17                        |
| M358675            |                                   | 2                        | 0.1                        | 0.9                        | 20                        | 0.8                         | <1                        |
| M358676            |                                   | 74                       | 3.5                        | 12.1                       | 248                       | 33.3                        | 4                         |
| M358677            |                                   | 86                       | 7.5                        | 8.5                        | 957                       | 35.8                        | 19                        |
| M358678            |                                   | 93                       | 4.3                        | 9.7                        | 109                       | 34.8                        | 8                         |
| M358679            |                                   | 87                       | 3.9                        | 11.5                       | 62                        | 34.4                        | 1                         |
| M358680            |                                   | 77                       | 4.3                        | 9.3                        | 58                        | 39.9                        | 1                         |
| M358681            |                                   | 80                       | 5.4                        | 10.8                       | 513                       | 32.3                        | 2                         |
| M358682            |                                   | 2                        | 0.2                        | 0.9                        | 20                        | 0.5                         | <1                        |
| M358683            |                                   | 55                       | 5.5                        | 12.2                       | 233                       | 42.8                        | 2                         |
| M358684            |                                   | 45                       | 5.5                        | 8.8                        | 139                       | 38.6                        | 2                         |
| M358685            |                                   | 52                       | 4.0                        | 9.5                        | 147                       | 49.5                        | 1                         |
| M358686            |                                   | 56                       | 5.3                        | 10.0                       | 5440                      | 25.3                        | 25                        |
| M358687            |                                   | 63                       | 3.3                        | 10.9                       | 125                       | 41.8                        | 1                         |
| M358688            |                                   | 68                       | 3.6                        | 15.8                       | 1560                      | 40.8                        | 4                         |
| M358689            |                                   | 74                       | 3.4                        | 15.5                       | 660                       | 43.5                        | 3                         |
| M358690            |                                   | 64                       | 3.8                        | 11.9                       | 1940                      | 42.9                        | 10                        |
| M358691            |                                   | 81                       | 4.4                        | 13.7                       | 158                       | 35.3                        | 1                         |
| M358692            |                                   | 84                       | 5.8                        | 8.3                        | 5400                      | 31.8                        | 13                        |
| M358693            |                                   | 77                       | 3.2                        | 15.8                       | 148                       | 39.2                        | 1                         |
| M358694            |                                   | 76                       | 3.2                        | 15.8                       | 150                       | 39.6                        | 1                         |
| M358695            |                                   | 82                       | 3.0                        | 13.2                       | 65                        | 33.1                        | 1                         |
| M358696            |                                   | 77                       | 6.5                        | 12.0                       | 74                        | 40.4                        | 1                         |
| M358697            |                                   | 74                       | 10.2                       | 6.5                        | 2830                      | 36.6                        | 7                         |
| M358698            |                                   | 71                       | 7.4                        | 6.6                        | 2320                      | 38.9                        | 32                        |
| M358699            |                                   | 71                       | 7.8                        | 7.6                        | 1230                      | 31.9                        | 21                        |
| M358700            |                                   | 59                       | 6.8                        | 7.4                        | 6170                      | 29.3                        | 29                        |
| M358701            |                                   | 78                       | 7.2                        | 7.5                        | 1470                      | 37.5                        | 11                        |



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**CERTIFICATE OF ANALYSIS WH12210744**

| Method             | CERTIFICATE COMMENTS   |
|--------------------|--|
| ME-MS61<br>ME-MS61 | REE's may not be totally soluble in this method.<br>Interference: Samples with Ca>10% on ICP-MS As. ICP-AES As results reported (5 ppm DL) |