Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada

www.acmelab.com

**Client:** **Kinross Gold Corporation**
885 West Georgia St., Suite 1380
Vancouver BC V6C 3E8 Canada

Submitted By: Jean-Pierre Londero
Receiving Lab: Canada-Dawson City
Received: August 01, 2011
Report Date: August 20, 2011


# CERTIFICATE OF ANALYSIS DAW11000135.1

## CLIENT JOB INFORMATION

Project: TSL
Shipment ID: TSL2011-02
P.O. Number
Number of Samples: 82

## SAMPLE DISPOSAL

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

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

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description | Test Wgt (g) | Report Status | Lab |
|---|---|---|---|---|---|
| SS80 | 82 | Dry at 60C sieve 100g to -80 mesh | | | WHI |
| Dry at 60C | 82 | Dry at 60C | | | WHI |
| 1DX2 | 82 | 1:1:1 Aqua Regia digestion ICP-MS analysis | 15 | Completed | VAN |

## ADDITIONAL COMMENTS

Invoice To: Kinross Gold Corporation
885 West Georgia St., Suite 1380
Vancouver BC V6C 3E8
Canada

CC: Jean-Pierre Londero

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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

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Project: TSL
Report Date: August 20, 2011



# CERTIFICATE OF ANALYSIS DAW11000135.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Au | Ag | Al | As | B | Ba | Bi | Ca | Cd | Co | Cr | Cu | Fe | Ga | Hg | K | La | Mg | Mn | Mo |
| | Unit | ppb | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | % | ppm | ppm |
| | MDL | 0.5 | 0.1 | 0.01 | 0.5 | 1 | 1 | 0.1 | 0.01 | 0.1 | 0.1 | 1 | 0.1 | 0.01 | 1 | 0.01 | 0.01 | 1 | 0.01 | 1 | 0.1 |
| 1160717 | Soil | 3.1 | <0.1 | 1.94 | 8.8 | <1 | 257 | 0.2 | 0.21 | 0.2 | 9.6 | 26 | 32.5 | 3.61 | 9 | 0.02 | 0.13 | 8 | 0.58 | 392 | 1.1 |
| 1160589 | Soil | 8.3 | 0.4 | 1.26 | 4.5 | <1 | 227 | 0.2 | 0.21 | 0.3 | 3.7 | 15 | 23.9 | 2.45 | 6 | 0.06 | 0.13 | 9 | 0.55 | 215 | 1.4 |
| 1160587 | Soil | 19.0 | <0.1 | 2.17 | 10.1 | 1 | 225 | 0.3 | 0.16 | 0.4 | 9.8 | 30 | 16.8 | 3.69 | 8 | 0.05 | 0.10 | 8 | 0.50 | 384 | 1.2 |
| 1160588 | Soil | 13.7 | <0.1 | 2.41 | 9.3 | <1 | 237 | 0.4 | 0.16 | 0.3 | 11.2 | 31 | 20.9 | 3.09 | 7 | 0.03 | 0.06 | 8 | 0.47 | 369 | 1.1 |
| 1160586 | Soil | 15.0 | <0.1 | 2.08 | 5.5 | <1 | 281 | 0.2 | 0.16 | 0.1 | 9.9 | 21 | 54.0 | 3.78 | 9 | 0.02 | 0.28 | 5 | 0.66 | 440 | 1.0 |
| 1160585 | Soil | 4.5 | <0.1 | 0.96 | 4.0 | 1 | 298 | 0.1 | 0.19 | <0.1 | 14.4 | 14 | 38.1 | 3.96 | 3 | 0.02 | 0.08 | 19 | 0.27 | 701 | 3.1 |
| 1160591 | Soil | 9.6 | 0.1 | 1.18 | 4.6 | <1 | 110 | 0.1 | 0.19 | <0.1 | 5.3 | 21 | 19.8 | 2.47 | 6 | 0.04 | 0.08 | 6 | 0.42 | 173 | 0.8 |
| 1160590 | Soil | 4.8 | 0.3 | 1.12 | 2.6 | <1 | 292 | 0.2 | 0.35 | 0.7 | 5.1 | 17 | 41.5 | 1.80 | 6 | 0.06 | 0.06 | 6 | 0.42 | 161 | 0.5 |
| 1160592 | Soil | 8.2 | <0.1 | 1.44 | 5.3 | <1 | 538 | 0.1 | 0.42 | 0.1 | 9.3 | 24 | 39.6 | 2.62 | 6 | 0.03 | 0.06 | 11 | 0.60 | 281 | 0.5 |
| 1160593 | Soil | 191.2 | 0.5 | 2.23 | 7.5 | <1 | 831 | 0.3 | 0.65 | 0.4 | 15.1 | 41 | 70.1 | 5.31 | 12 | 0.08 | 0.81 | 11 | 1.57 | 776 | 1.1 |
| 1160594 | Soil | 329.9 | 0.3 | 2.02 | 4.1 | <1 | 746 | 0.4 | 0.34 | 0.2 | 14.2 | 17 | 61.9 | 5.59 | 12 | 0.04 | 0.75 | 9 | 1.14 | 926 | 3.1 |
| 1160595 | Soil | 39.6 | <0.1 | 2.72 | 2.6 | <1 | 409 | 0.1 | 0.35 | 0.8 | 28.0 | 11 | 46.6 | 7.20 | 15 | 0.03 | 0.71 | 6 | 1.67 | 552 | 0.6 |
| 1160596 | Soil | 2.2 | <0.1 | 1.57 | 2.2 | <1 | 236 | <0.1 | 0.28 | <0.1 | 14.1 | 38 | 50.9 | 2.08 | 4 | 0.01 | 0.23 | 3 | 1.13 | 300 | 0.3 |
| 1160597 | Soil | 3.6 | <0.1 | 1.68 | 6.7 | <1 | 244 | 0.2 | 0.26 | 0.2 | 7.7 | 26 | 22.0 | 2.85 | 7 | 0.02 | 0.09 | 10 | 0.49 | 321 | 0.8 |
| 1160598 | Soil | 4.6 | 0.1 | 2.71 | 5.9 | <1 | 461 | 0.1 | 0.26 | 0.3 | 18.3 | 43 | 56.4 | 4.31 | 10 | 0.02 | 0.54 | 5 | 1.45 | 649 | 0.8 |
| 1160718 | Soil | 11.7 | <0.1 | 3.22 | 6.2 | <1 | 596 | 0.2 | 0.37 | 0.1 | 14.9 | 56 | 72.0 | 6.67 | 16 | 0.01 | 1.36 | 9 | 2.96 | 763 | 0.6 |
| 1160720 | Soil | 26.2 | 0.1 | 1.74 | 6.6 | <1 | 705 | 0.2 | 0.35 | 0.2 | 9.3 | 27 | 32.4 | 3.30 | 7 | 0.04 | 0.11 | 22 | 0.59 | 435 | 0.8 |
| 1160719 | Soil | 15.5 | <0.1 | 2.50 | 1.4 | <1 | 291 | 0.2 | 0.66 | <0.1 | 27.2 | 106 | 40.4 | 4.01 | 8 | 0.03 | 0.18 | 7 | 2.92 | 877 | 0.3 |
| 1160723 | Soil | 10.7 | 0.2 | 1.67 | 4.6 | <1 | 224 | 0.1 | 0.25 | 0.3 | 9.2 | 26 | 31.7 | 2.56 | 7 | 0.04 | 0.08 | 10 | 0.53 | 263 | 0.7 |
| 1160721 | Soil | 0.7 | <0.1 | 1.34 | 2.0 | <1 | 183 | <0.1 | 0.61 | <0.1 | 9.9 | 4 | 32.6 | 3.38 | 7 | <0.01 | 0.26 | 7 | 0.54 | 384 | 0.4 |
| 1160722 | Soil | 8.8 | 0.2 | 1.68 | 4.2 | <1 | 293 | 0.2 | 0.33 | 0.1 | 11.9 | 21 | 34.2 | 3.20 | 8 | 0.04 | 0.24 | 7 | 0.69 | 543 | 0.6 |
| 1160724 | Soil | 8.6 | 0.2 | 1.89 | 4.9 | <1 | 467 | 0.2 | 0.42 | 0.2 | 14.4 | 21 | 44.2 | 4.02 | 8 | 0.03 | 0.14 | 10 | 0.72 | 724 | 1.2 |
| 1160728 | Soil | 7.0 | <0.1 | 2.11 | 5.1 | <1 | 368 | 0.1 | 0.47 | <0.1 | 16.7 | 54 | 40.4 | 4.09 | 10 | 0.02 | 0.11 | 13 | 1.17 | 563 | 0.7 |
| 1160727 | Soil | 4.8 | <0.1 | 1.57 | 3.8 | 1 | 297 | 0.1 | 0.30 | 0.1 | 10.5 | 29 | 32.7 | 3.66 | 7 | 0.03 | 0.30 | 17 | 0.64 | 622 | 0.8 |
| 1160726 | Soil | 7.1 | <0.1 | 2.04 | 6.8 | <1 | 431 | 0.6 | 0.24 | 0.2 | 9.6 | 30 | 47.7 | 3.33 | 7 | 0.03 | 0.08 | 15 | 0.56 | 314 | 0.9 |
| 1160725 | Soil | 11.9 | 0.2 | 2.05 | 5.5 | <1 | 170 | 0.1 | 0.24 | 0.5 | 8.4 | 25 | 23.8 | 3.17 | 7 | 0.04 | 0.09 | 14 | 0.86 | 627 | 1.1 |
| 1160584 | Soil | <0.5 | <0.1 | 3.16 | 2.2 | <1 | 307 | <0.1 | 0.17 | <0.1 | 19.8 | 13 | 24.2 | 4.82 | 13 | <0.01 | 0.45 | 5 | 1.65 | 990 | 0.6 |
| 1160729 | Soil | 1.6 | <0.1 | 2.73 | 3.6 | <1 | 310 | 0.1 | 0.54 | <0.1 | 20.8 | 27 | 33.8 | 5.57 | 12 | 0.02 | 0.06 | 13 | 1.76 | 749 | 0.7 |
| 1160676 | Soil | 2.7 | <0.1 | 1.46 | 4.7 | <1 | 216 | 0.2 | 0.22 | <0.1 | 9.3 | 32 | 22.2 | 3.18 | 6 | 0.01 | 0.30 | 21 | 0.53 | 489 | 1.2 |
| 1160679 | Soil | 1.3 | <0.1 | 1.78 | 7.5 | <1 | 158 | 0.2 | 0.15 | 0.2 | 9.0 | 27 | 16.7 | 3.50 | 8 | 0.02 | 0.12 | 10 | 0.49 | 475 | 1.7 |

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# CERTIFICATE OF ANALYSIS DAW11000135.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Na | Ni | P | Pb | S | Sb | Sc | Se | Sr | Te | Th | Ti | Tl | U | V | W | Zn |
| | Unit | % | ppm | % | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| | MDL | 0.001 | 0.1 | 0.001 | 0.1 | 0.05 | 0.1 | 0.1 | 0.5 | 1 | 0.2 | 0.1 | 0.001 | 0.1 | 0.1 | 2 | 0.1 | 1 |
| 1160717 | Soil | 0.013 | 16.9 | 0.036 | 30.1 | <0.05 | 0.4 | 4.0 | <0.5 | 19 | <0.2 | 2.1 | 0.110 | 0.1 | 0.4 | 77 | 0.1 | 105 |
| 1160589 | Soil | 0.018 | 6.8 | 0.056 | 37.3 | 0.08 | 0.2 | 2.7 | 0.6 | 23 | <0.2 | 1.1 | 0.055 | <0.1 | 0.5 | 31 | 0.1 | 155 |
| 1160587 | Soil | 0.010 | 17.3 | 0.045 | 60.2 | <0.05 | 0.5 | 3.5 | <0.5 | 15 | <0.2 | 2.1 | 0.089 | <0.1 | 0.5 | 60 | 0.1 | 87 |
| 1160588 | Soil | 0.011 | 19.1 | 0.041 | 96.3 | <0.05 | 0.5 | 3.2 | <0.5 | 17 | <0.2 | 3.2 | 0.078 | 0.1 | 0.7 | 58 | 0.2 | 78 |
| 1160586 | Soil | 0.010 | 13.0 | 0.027 | 26.1 | <0.05 | 0.3 | 4.7 | <0.5 | 14 | 0.2 | 1.8 | 0.130 | 0.2 | 0.4 | 53 | 0.1 | 183 |
| 1160585 | Soil | 0.011 | 12.7 | 0.032 | 18.9 | <0.05 | 0.3 | 8.1 | <0.5 | 23 | <0.2 | 5.9 | 0.012 | <0.1 | 1.0 | 55 | <0.1 | 80 |
| 1160591 | Soil | 0.012 | 9.2 | 0.048 | 32.4 | <0.05 | 0.2 | 2.3 | <0.5 | 16 | <0.2 | 1.0 | 0.073 | <0.1 | 0.5 | 51 | 0.1 | 60 |
| 1160590 | Soil | 0.015 | 8.1 | 0.053 | 16.8 | <0.05 | 0.2 | 2.5 | <0.5 | 23 | <0.2 | 1.0 | 0.074 | <0.1 | 0.4 | 31 | 0.1 | 157 |
| 1160592 | Soil | 0.020 | 14.3 | 0.027 | 15.4 | <0.05 | 0.3 | 3.8 | <0.5 | 33 | <0.2 | 2.5 | 0.095 | <0.1 | 0.7 | 54 | 0.1 | 57 |
| 1160593 | Soil | 0.027 | 21.7 | 0.039 | 49.4 | 0.22 | 0.3 | 11.4 | 0.7 | 37 | 0.3 | 3.2 | 0.160 | 0.4 | 0.9 | 113 | <0.1 | 304 |
| 1160594 | Soil | 0.019 | 13.8 | 0.038 | 124.1 | <0.05 | 0.2 | 10.8 | 0.6 | 27 | 0.7 | 5.7 | 0.168 | 0.3 | 0.8 | 114 | 0.1 | 169 |
| 1160595 | Soil | 0.035 | 9.5 | 0.051 | 39.9 | <0.05 | 0.3 | 14.9 | <0.5 | 20 | 0.4 | 1.6 | 0.155 | 0.3 | 0.6 | 210 | 0.3 | 558 |
| 1160596 | Soil | 0.016 | 15.9 | 0.012 | 5.1 | <0.05 | 0.1 | 2.3 | <0.5 | 24 | <0.2 | 0.6 | 0.119 | 0.1 | 0.1 | 47 | <0.1 | 55 |
| 1160597 | Soil | 0.014 | 14.8 | 0.034 | 19.7 | <0.05 | 0.4 | 3.6 | <0.5 | 22 | <0.2 | 2.6 | 0.100 | <0.1 | 0.5 | 53 | 0.1 | 105 |
| 1160598 | Soil | 0.015 | 23.8 | 0.023 | 16.9 | <0.05 | 0.3 | 5.4 | <0.5 | 29 | <0.2 | 1.9 | 0.188 | 0.5 | 0.5 | 99 | <0.1 | 357 |
| 1160718 | Soil | 0.022 | 24.5 | 0.030 | 28.4 | 0.53 | 0.2 | 14.4 | 0.9 | 31 | <0.2 | 2.0 | 0.282 | 0.6 | 0.5 | 152 | <0.1 | 296 |
| 1160720 | Soil | 0.016 | 14.2 | 0.039 | 70.8 | <0.05 | 0.4 | 5.8 | <0.5 | 26 | <0.2 | 4.7 | 0.091 | <0.1 | 1.3 | 53 | 0.1 | 80 |
| 1160719 | Soil | 0.017 | 39.3 | 0.017 | 48.2 | <0.05 | 0.2 | 11.9 | <0.5 | 24 | <0.2 | 0.9 | 0.098 | 0.1 | 0.3 | 97 | <0.1 | 105 |
| 1160723 | Soil | 0.015 | 14.4 | 0.062 | 8.4 | <0.05 | 0.2 | 3.6 | <0.5 | 20 | <0.2 | 1.4 | 0.108 | <0.1 | 0.7 | 55 | 0.1 | 75 |
| 1160721 | Soil | 0.049 | 2.5 | 0.144 | 9.6 | <0.05 | <0.1 | 5.1 | <0.5 | 14 | <0.2 | 2.3 | 0.124 | <0.1 | 0.6 | 32 | <0.1 | 70 |
| 1160722 | Soil | 0.016 | 11.3 | 0.068 | 46.5 | <0.05 | 0.2 | 4.3 | <0.5 | 23 | <0.2 | 1.6 | 0.150 | <0.1 | 0.6 | 55 | <0.1 | 105 |
| 1160724 | Soil | 0.016 | 14.5 | 0.062 | 25.3 | <0.05 | 0.3 | 5.9 | <0.5 | 23 | <0.2 | 2.2 | 0.116 | <0.1 | 0.6 | 87 | <0.1 | 121 |
| 1160728 | Soil | 0.021 | 25.3 | 0.032 | 17.3 | <0.05 | 0.3 | 7.7 | <0.5 | 33 | <0.2 | 2.6 | 0.144 | 0.1 | 0.5 | 98 | 0.1 | 109 |
| 1160727 | Soil | 0.014 | 19.9 | 0.040 | 18.5 | <0.05 | 0.3 | 8.0 | <0.5 | 28 | <0.2 | 4.1 | 0.120 | 0.1 | 0.8 | 57 | <0.1 | 122 |
| 1160726 | Soil | 0.012 | 17.8 | 0.050 | 200.5 | <0.05 | 0.4 | 6.2 | 0.5 | 22 | <0.2 | 4.1 | 0.107 | 0.1 | 1.2 | 62 | <0.1 | 103 |
| 1160725 | Soil | 0.010 | 15.9 | 0.043 | 16.7 | <0.05 | 0.3 | 4.5 | <0.5 | 20 | <0.2 | 3.2 | 0.078 | <0.1 | 0.9 | 49 | <0.1 | 226 |
| 1160584 | Soil | 0.008 | 10.3 | 0.049 | 5.0 | <0.05 | 0.2 | 7.5 | <0.5 | 10 | <0.2 | 8.9 | 0.136 | 0.3 | 0.7 | 95 | <0.1 | 93 |
| 1160729 | Soil | 0.013 | 14.4 | 0.073 | 29.0 | <0.05 | 0.3 | 12.4 | <0.5 | 29 | <0.2 | 5.1 | 0.024 | <0.1 | 0.7 | 106 | <0.1 | 71 |
| 1160676 | Soil | 0.012 | 18.0 | 0.024 | 9.0 | <0.05 | 0.5 | 6.0 | <0.5 | 17 | <0.2 | 9.0 | 0.136 | 0.2 | 1.2 | 42 | <0.1 | 67 |
| 1160679 | Soil | 0.009 | 15.0 | 0.038 | 11.9 | <0.05 | 0.5 | 4.5 | <0.5 | 16 | <0.2 | 4.4 | 0.078 | 0.1 | 0.8 | 61 | 0.1 | 82 |

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# CERTIFICATE OF ANALYSIS DAW11000135.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Au | Ag | Al | As | B | Ba | Bi | Ca | Cd | Co | Cr | Cu | Fe | Ga | Hg | K | La | Mg | Mn | Mo |
| | Unit | ppb | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | % | ppm | ppm |
| | MDL | 0.5 | 0.1 | 0.01 | 0.5 | 1 | 1 | 0.1 | 0.01 | 0.1 | 0.1 | 1 | 0.1 | 0.01 | 1 | 0.01 | 0.01 | 1 | 0.01 | 1 | 0.1 |
| 1160674 | Soil | 4.4 | <0.1 | 1.77 | 6.6 | <1 | 255 | 0.1 | 0.30 | <0.1 | 10.5 | 31 | 21.4 | 2.87 | 6 | 0.03 | 0.10 | 29 | 0.49 | 384 | 0.9 |
| 1160682 | Soil | 2.3 | 0.1 | 1.48 | 6.9 | <1 | 124 | 0.2 | 0.10 | 0.2 | 4.4 | 22 | 13.1 | 2.26 | 8 | 0.02 | 0.04 | 10 | 0.22 | 202 | 1.3 |
| 1160681 | Soil | 2.1 | <0.1 | 2.36 | 12.0 | 1 | 281 | 0.2 | 0.26 | <0.1 | 12.7 | 37 | 24.2 | 3.15 | 6 | 0.04 | 0.08 | 10 | 0.62 | 330 | 1.1 |
| 1160680 | Soil | 4.8 | <0.1 | 2.41 | 10.1 | <1 | 515 | 0.2 | 0.36 | <0.1 | 11.6 | 46 | 43.6 | 3.46 | 7 | 0.07 | 0.07 | 36 | 0.66 | 443 | 1.1 |
| 1160683 | Soil | 3.5 | <0.1 | 2.13 | 5.9 | 1 | 140 | 0.1 | 0.26 | 0.1 | 9.1 | 35 | 19.6 | 2.86 | 6 | 0.02 | 0.07 | 14 | 0.51 | 265 | 0.8 |
| 1160677 | Soil | 3.3 | <0.1 | 2.22 | 7.3 | <1 | 236 | 0.2 | 0.24 | <0.1 | 12.1 | 34 | 32.9 | 3.54 | 7 | 0.02 | 0.27 | 28 | 0.66 | 511 | 1.1 |
| 1160678 | Soil | <0.5 | <0.1 | 1.62 | 2.8 | 3 | 204 | 0.1 | 0.11 | <0.1 | 7.3 | 17 | 33.6 | 3.78 | 8 | 0.01 | 0.51 | 33 | 0.69 | 601 | 0.4 |
| 1160684 | Soil | 1.2 | <0.1 | 2.09 | 5.8 | 3 | 227 | 0.2 | 0.25 | 0.1 | 8.8 | 30 | 20.5 | 3.07 | 7 | 0.02 | 0.10 | 19 | 0.46 | 431 | 0.9 |
| 1160685 | Soil | 1.0 | 0.1 | 1.92 | 6.8 | 2 | 265 | 0.2 | 0.30 | 0.2 | 13.0 | 33 | 26.0 | 3.07 | 7 | 0.03 | 0.06 | 14 | 0.45 | 743 | 1.1 |
| 1160687 | Soil | 1.5 | 0.1 | 1.63 | 4.8 | 2 | 194 | 0.1 | 0.25 | 0.1 | 7.4 | 24 | 15.5 | 2.49 | 6 | 0.03 | 0.06 | 12 | 0.55 | 244 | 0.6 |
| 1160686 | Soil | 1.4 | 0.2 | 1.91 | 6.7 | 3 | 283 | 0.2 | 0.29 | 0.1 | 9.2 | 30 | 17.5 | 2.88 | 6 | 0.05 | 0.06 | 16 | 0.49 | 387 | 1.1 |
| 1160675 | Soil | 2.8 | <0.1 | 1.64 | 6.0 | 3 | 248 | 0.2 | 0.26 | <0.1 | 8.7 | 30 | 20.3 | 2.90 | 6 | 0.02 | 0.15 | 26 | 0.53 | 426 | 0.9 |
| 1160786 | Soil | 2.9 | <0.1 | 1.54 | 5.7 | 3 | 159 | 0.2 | 0.17 | 0.1 | 8.7 | 22 | 15.7 | 2.61 | 5 | 0.02 | 0.07 | 16 | 0.38 | 502 | 0.8 |
| 1160775 | Soil | 5.3 | <0.1 | 1.93 | 7.7 | 2 | 385 | 0.1 | 0.33 | <0.1 | 10.7 | 40 | 32.7 | 3.23 | 6 | 0.05 | 0.07 | 19 | 0.60 | 512 | 0.8 |
| 1160774 | Soil | 3.1 | <0.1 | 1.95 | 6.5 | <1 | 295 | 0.1 | 0.28 | <0.1 | 10.1 | 32 | 22.6 | 3.20 | 6 | 0.02 | 0.19 | 36 | 0.67 | 368 | 0.7 |
| 1160792 | Soil | 2.3 | <0.1 | 2.08 | 7.0 | 2 | 213 | 0.1 | 0.17 | <0.1 | 8.4 | 26 | 15.4 | 3.32 | 7 | 0.02 | 0.15 | 13 | 0.56 | 386 | 1.0 |
| 1160785 | Soil | 3.9 | 0.2 | 1.63 | 4.8 | 3 | 304 | 0.2 | 0.26 | 0.1 | 6.7 | 20 | 14.6 | 2.44 | 6 | 0.06 | 0.05 | 26 | 0.36 | 282 | 0.8 |
| 1160783 | Soil | 1.5 | 0.1 | 1.47 | 4.8 | <1 | 190 | 0.2 | 0.22 | 0.1 | 6.7 | 19 | 16.1 | 2.61 | 6 | 0.04 | 0.07 | 12 | 0.44 | 336 | 0.8 |
| 1160776 | Soil | 4.2 | <0.1 | 2.07 | 3.6 | 1 | 165 | <0.1 | 0.08 | <0.1 | 7.2 | 14 | 27.8 | 3.27 | 9 | 0.02 | 0.38 | 21 | 0.96 | 373 | 0.7 |
| 1160790 | Soil | <0.5 | <0.1 | 1.65 | 3.7 | 2 | 138 | 0.1 | 0.09 | 0.1 | 7.4 | 15 | 16.9 | 3.85 | 8 | <0.01 | 0.29 | 8 | 0.51 | 406 | 1.4 |
| 1160777 | Soil | 1.6 | <0.1 | 1.74 | 7.7 | 2 | 188 | 0.2 | 0.20 | <0.1 | 7.1 | 27 | 17.3 | 2.81 | 6 | 0.04 | 0.06 | 20 | 0.47 | 247 | 0.8 |
| 1160794 | Soil | 6.2 | <0.1 | 1.70 | 7.4 | 2 | 219 | 0.1 | 0.22 | 0.1 | 7.3 | 24 | 20.1 | 3.11 | 6 | 0.04 | 0.13 | 8 | 0.56 | 281 | 1.0 |
| 1160793 | Soil | 1.7 | <0.1 | 1.73 | 4.0 | 1 | 190 | <0.1 | 0.23 | <0.1 | 10.9 | 17 | 41.9 | 3.48 | 7 | 0.02 | 0.09 | 4 | 0.67 | 415 | 0.5 |
| 1160781 | Soil | 7.3 | 0.2 | 2.05 | 5.5 | 1 | 318 | 0.2 | 0.25 | 0.2 | 10.5 | 28 | 26.5 | 3.43 | 8 | 0.05 | 0.12 | 17 | 0.59 | 443 | 0.8 |
| 1160784 | Soil | 5.8 | <0.1 | 1.22 | 2.5 | 2 | 167 | 0.1 | 0.20 | <0.1 | 4.7 | 19 | 10.6 | 1.78 | 5 | 0.06 | 0.07 | 17 | 0.34 | 161 | 0.6 |
| 1160773 | Soil | <0.5 | <0.1 | 2.13 | 2.3 | <1 | 247 | 0.1 | 0.19 | <0.1 | 12.9 | 12 | 36.1 | 3.84 | 8 | 0.01 | 0.47 | 3 | 0.95 | 587 | 0.4 |
| 1160795 | Soil | 4.5 | <0.1 | 1.61 | 7.6 | 1 | 239 | 0.1 | 0.33 | <0.1 | 9.8 | 38 | 30.5 | 2.83 | 5 | 0.02 | 0.04 | 11 | 0.61 | 307 | 0.7 |
| 1160788 | Soil | 3.2 | 0.2 | 2.45 | 9.5 | <1 | 283 | 0.2 | 0.15 | <0.1 | 8.8 | 40 | 26.3 | 3.20 | 6 | 0.04 | 0.07 | 20 | 0.49 | 285 | 1.2 |
| 1160779 | Soil | 1.0 | <0.1 | 1.61 | 5.8 | 1 | 146 | 0.1 | 0.18 | <0.1 | 6.6 | 26 | 13.5 | 2.60 | 6 | 0.02 | 0.07 | 19 | 0.45 | 276 | 0.8 |
| 1160780 | Soil | 1.3 | <0.1 | 1.97 | 5.4 | 4 | 312 | 0.2 | 0.22 | 0.1 | 8.5 | 32 | 24.6 | 3.24 | 7 | 0.03 | 0.08 | 44 | 0.48 | 412 | 0.8 |

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Project: TSL
Report Date: August 20, 2011



# CERTIFICATE OF ANALYSIS DAW11000135.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Na | Ni | P | Pb | S | Sb | Sc | Se | Sr | Te | Th | Ti | Tl | U | V | W | Zn |
| | Unit | % | ppm | % | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| | MDL | 0.001 | 0.1 | 0.001 | 0.1 | 0.05 | 0.1 | 0.1 | 0.5 | 1 | 0.2 | 0.1 | 0.001 | 0.1 | 0.1 | 2 | 0.1 | 1 |
| 1160674 | Soil | 0.016 | 14.9 | 0.030 | 9.9 | <0.05 | 0.5 | 5.3 | <0.5 | 22 | <0.2 | 7.3 | 0.117 | <0.1 | 1.3 | 56 | 0.1 | 55 |
| 1160682 | Soil | 0.008 | 7.7 | 0.034 | 12.2 | <0.05 | 0.4 | 1.8 | <0.5 | 12 | <0.2 | 1.7 | 0.061 | 0.1 | 0.5 | 67 | <0.1 | 42 |
| 1160681 | Soil | 0.013 | 32.6 | 0.031 | 9.2 | <0.05 | 0.6 | 3.7 | <0.5 | 23 | <0.2 | 4.4 | 0.098 | <0.1 | 0.6 | 70 | 0.1 | 59 |
| 1160680 | Soil | 0.018 | 28.1 | 0.032 | 23.4 | <0.05 | 0.6 | 9.6 | 0.7 | 30 | <0.2 | 11.2 | 0.112 | <0.1 | 3.4 | 71 | 0.1 | 64 |
| 1160683 | Soil | 0.013 | 19.0 | 0.032 | 8.4 | <0.05 | 0.4 | 3.7 | <0.5 | 20 | <0.2 | 5.4 | 0.111 | <0.1 | 0.7 | 65 | 0.1 | 55 |
| 1160677 | Soil | 0.016 | 24.9 | 0.023 | 7.2 | <0.05 | 0.4 | 6.3 | <0.5 | 23 | <0.2 | 11.9 | 0.153 | 0.1 | 1.4 | 59 | <0.1 | 80 |
| 1160678 | Soil | 0.010 | 8.7 | 0.020 | 5.3 | <0.05 | 0.8 | 9.2 | <0.5 | 9 | <0.2 | 14.9 | 0.161 | 0.3 | 0.9 | 38 | <0.1 | 68 |
| 1160684 | Soil | 0.011 | 17.0 | 0.038 | 9.8 | <0.05 | 0.4 | 4.7 | <0.5 | 18 | <0.2 | 6.9 | 0.098 | <0.1 | 1.0 | 57 | 0.2 | 62 |
| 1160685 | Soil | 0.011 | 19.3 | 0.043 | 13.9 | <0.05 | 0.3 | 4.4 | <0.5 | 21 | <0.2 | 4.7 | 0.092 | <0.1 | 1.3 | 65 | 0.1 | 65 |
| 1160687 | Soil | 0.012 | 13.7 | 0.042 | 10.7 | <0.05 | 0.3 | 3.9 | <0.5 | 18 | <0.2 | 3.8 | 0.089 | <0.1 | 1.4 | 50 | 0.2 | 59 |
| 1160686 | Soil | 0.012 | 17.4 | 0.055 | 32.5 | <0.05 | 0.3 | 4.6 | <0.5 | 21 | <0.2 | 5.1 | 0.089 | <0.1 | 1.5 | 56 | 0.2 | 67 |
| 1160675 | Soil | 0.015 | 15.7 | 0.032 | 8.5 | <0.05 | 0.4 | 5.2 | <0.5 | 20 | <0.2 | 8.1 | 0.117 | 0.1 | 1.4 | 49 | 0.1 | 60 |
| 1160786 | Soil | 0.009 | 12.0 | 0.047 | 46.7 | <0.05 | 0.3 | 3.5 | <0.5 | 13 | <0.2 | 5.5 | 0.074 | <0.1 | 1.0 | 49 | 0.1 | 65 |
| 1160775 | Soil | 0.017 | 25.2 | 0.041 | 30.9 | <0.05 | 0.4 | 7.2 | 0.5 | 30 | <0.2 | 6.2 | 0.093 | <0.1 | 1.2 | 62 | 0.1 | 61 |
| 1160774 | Soil | 0.014 | 18.7 | 0.035 | 9.2 | <0.05 | 0.3 | 7.6 | <0.5 | 22 | <0.2 | 10.9 | 0.132 | 0.1 | 1.2 | 56 | 0.1 | 53 |
| 1160792 | Soil | 0.010 | 14.1 | 0.025 | 8.1 | <0.05 | 0.4 | 4.5 | <0.5 | 16 | <0.2 | 8.8 | 0.101 | 0.1 | 0.9 | 55 | 0.1 | 52 |
| 1160785 | Soil | 0.010 | 11.6 | 0.051 | 23.4 | <0.05 | 0.4 | 4.1 | <0.5 | 20 | <0.2 | 4.6 | 0.065 | <0.1 | 1.6 | 43 | 0.1 | 55 |
| 1160783 | Soil | 0.012 | 11.0 | 0.055 | 15.6 | <0.05 | 0.2 | 4.0 | <0.5 | 16 | <0.2 | 2.6 | 0.072 | <0.1 | 1.3 | 53 | 0.1 | 58 |
| 1160776 | Soil | 0.013 | 7.5 | 0.022 | 18.7 | <0.05 | 0.2 | 8.8 | <0.5 | 8 | <0.2 | 9.2 | 0.121 | 0.1 | 1.4 | 34 | <0.1 | 101 |
| 1160790 | Soil | 0.009 | 8.8 | 0.024 | 31.5 | <0.05 | 0.3 | 6.6 | <0.5 | 7 | <0.2 | 10.7 | 0.084 | 0.2 | 1.0 | 34 | <0.1 | 75 |
| 1160777 | Soil | 0.011 | 15.2 | 0.033 | 15.7 | <0.05 | 0.4 | 4.2 | <0.5 | 17 | <0.2 | 5.2 | 0.077 | <0.1 | 0.9 | 59 | 0.2 | 49 |
| 1160794 | Soil | 0.011 | 14.1 | 0.031 | 8.2 | <0.05 | 0.4 | 3.5 | <0.5 | 17 | <0.2 | 2.5 | 0.099 | <0.1 | 0.5 | 59 | 0.2 | 64 |
| 1160793 | Soil | 0.019 | 10.2 | 0.027 | 6.9 | <0.05 | 0.2 | 4.3 | <0.5 | 15 | <0.2 | 1.4 | 0.112 | <0.1 | 0.3 | 69 | <0.1 | 80 |
| 1160781 | Soil | 0.011 | 14.0 | 0.060 | 25.7 | <0.05 | 0.3 | 6.6 | <0.5 | 18 | <0.2 | 4.9 | 0.088 | <0.1 | 1.4 | 56 | 0.1 | 81 |
| 1160784 | Soil | 0.012 | 9.5 | 0.049 | 13.9 | <0.05 | 0.2 | 3.3 | <0.5 | 17 | <0.2 | 2.7 | 0.054 | <0.1 | 1.1 | 26 | 0.1 | 51 |
| 1160773 | Soil | 0.014 | 8.3 | 0.044 | 5.9 | <0.05 | 0.1 | 5.3 | <0.5 | 11 | <0.2 | 1.1 | 0.148 | 0.1 | 0.3 | 47 | <0.1 | 108 |
| 1160795 | Soil | 0.019 | 19.3 | 0.029 | 9.8 | <0.05 | 0.4 | 5.4 | <0.5 | 22 | <0.2 | 2.8 | 0.079 | <0.1 | 0.9 | 66 | 0.2 | 79 |
| 1160788 | Soil | 0.014 | 18.5 | 0.039 | 26.6 | <0.05 | 0.5 | 8.3 | <0.5 | 15 | <0.2 | 8.3 | 0.073 | <0.1 | 1.6 | 62 | 0.1 | 57 |
| 1160779 | Soil | 0.008 | 13.0 | 0.034 | 10.6 | <0.05 | 0.3 | 3.6 | <0.5 | 15 | <0.2 | 4.6 | 0.073 | <0.1 | 0.8 | 47 | <0.1 | 47 |
| 1160780 | Soil | 0.011 | 17.0 | 0.043 | 28.1 | <0.05 | 0.4 | 5.9 | <0.5 | 17 | <0.2 | 7.7 | 0.073 | <0.1 | 2.2 | 55 | 0.1 | 70 |

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Project: TSL
Report Date: August 20, 2011



# CERTIFICATE OF ANALYSIS DAW11000135.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Au | Ag | Al | As | B | Ba | Bi | Ca | Cd | Co | Cr | Cu | Fe | Ga | Hg | K | La | Mg | Mn | Mo |
| | Unit | ppb | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | % | ppm | ppm |
| | MDL | 0.5 | 0.1 | 0.01 | 0.5 | 1 | 1 | 0.1 | 0.01 | 0.1 | 0.1 | 1 | 0.1 | 0.01 | 1 | 0.01 | 0.01 | 1 | 0.01 | 1 | 0.1 |
| 1160789 | Soil | <0.5 | <0.1 | 1.77 | 5.4 | 1 | 181 | 0.1 | 0.11 | <0.1 | 6.9 | 16 | 11.5 | 2.75 | 6 | 0.02 | 0.24 | 7 | 0.41 | 310 | 0.7 |
| 1160782 | Soil | <0.5 | <0.1 | 1.61 | 4.3 | 2 | 257 | 0.2 | 0.23 | 0.2 | 7.4 | 16 | 56.2 | 3.82 | 8 | 0.02 | 0.24 | 7 | 0.67 | 537 | 1.0 |
| 1160770 | Soil | 1.7 | <0.1 | 1.52 | 5.3 | 1 | 222 | 0.2 | 0.21 | 0.3 | 6.8 | 22 | 37.7 | 3.55 | 7 | 0.02 | 0.14 | 6 | 0.54 | 506 | 1.0 |
| 1160769 | Soil | 1.0 | <0.1 | 1.42 | 2.4 | <1 | 250 | 0.1 | 0.12 | 0.1 | 6.4 | 9 | 16.9 | 3.63 | 7 | 0.01 | 0.25 | 6 | 0.45 | 593 | 0.6 |
| 1160772 | Soil | <0.5 | <0.1 | 1.84 | 3.3 | <1 | 237 | <0.1 | 0.16 | <0.1 | 10.4 | 15 | 21.5 | 3.92 | 9 | 0.01 | 0.67 | 2 | 0.88 | 681 | 0.5 |
| 1160791 | Soil | <0.5 | <0.1 | 1.71 | 4.6 | <1 | 143 | 0.1 | 0.10 | <0.1 | 6.7 | 15 | 15.9 | 4.13 | 8 | <0.01 | 0.31 | 8 | 0.53 | 425 | 1.4 |
| 1160787 | Soil | <0.5 | <0.1 | 1.76 | 5.2 | <1 | 293 | 0.2 | 0.19 | <0.1 | 8.5 | 24 | 23.9 | 2.79 | 6 | 0.02 | 0.11 | 34 | 0.48 | 473 | 0.6 |
| 1160778 | Soil | 1.0 | <0.1 | 0.64 | 1.6 | 2 | 121 | 0.1 | 0.07 | 0.1 | 2.1 | 13 | 14.2 | 1.26 | 4 | 0.02 | 0.08 | 13 | 0.11 | 108 | 1.3 |
| 1160771 | Soil | 2.4 | <0.1 | 1.98 | 4.6 | 2 | 186 | <0.1 | 0.34 | 0.2 | 15.1 | 67 | 47.0 | 3.18 | 6 | 0.01 | 0.05 | 8 | 1.13 | 476 | 0.9 |
| 1160715 | Soil | 1.4 | <0.1 | 1.53 | 9.5 | <1 | 134 | 0.2 | 0.12 | 0.2 | 6.2 | 23 | 12.9 | 3.59 | 7 | 0.03 | 0.05 | 8 | 0.32 | 348 | 1.7 |
| 1160709 | Soil | 3.9 | <0.1 | 1.61 | 5.7 | 2 | 232 | 0.1 | 0.26 | <0.1 | 7.6 | 25 | 16.4 | 3.01 | 6 | 0.02 | 0.07 | 13 | 0.51 | 291 | 1.1 |
| 1160706 | Soil | 2.9 | <0.1 | 2.05 | 4.6 | <1 | 187 | <0.1 | 0.33 | 0.9 | 14.7 | 65 | 106.9 | 3.16 | 6 | 0.04 | 0.04 | 7 | 1.15 | 485 | 0.6 |
| 1160714 | Soil | 3.9 | <0.1 | 1.35 | 5.1 | <1 | 284 | 0.1 | 0.18 | <0.1 | 7.1 | 18 | 24.6 | 2.88 | 6 | 0.02 | 0.10 | 18 | 0.39 | 371 | 0.9 |
| 1160713 | Soil | 2.5 | <0.1 | 1.37 | 5.1 | 3 | 254 | 0.2 | 0.15 | 0.1 | 6.0 | 23 | 16.7 | 2.84 | 5 | 0.04 | 0.08 | 16 | 0.35 | 379 | 0.7 |
| 1160711 | Soil | 3.0 | <0.1 | 1.45 | 5.9 | 1 | 161 | 0.2 | 0.22 | <0.1 | 6.3 | 27 | 34.1 | 2.42 | 5 | 0.02 | 0.07 | 13 | 0.57 | 263 | 0.8 |
| 1160716 | Soil | 2.5 | <0.1 | 1.65 | 4.2 | 1 | 252 | 0.2 | 0.32 | 0.1 | 11.5 | 19 | 30.9 | 3.68 | 7 | 0.02 | 0.25 | 12 | 0.82 | 556 | 0.7 |
| 1160708 | Soil | 1.4 | <0.1 | 1.32 | 3.4 | <1 | 134 | <0.1 | 0.13 | <0.1 | 6.1 | 11 | 17.5 | 2.79 | 7 | 0.02 | 0.28 | 4 | 0.39 | 672 | 0.5 |
| 1160712 | Soil | 2.7 | <0.1 | 1.57 | 7.3 | <1 | 174 | 0.2 | 0.19 | 0.1 | 7.5 | 26 | 16.5 | 2.66 | 6 | 0.02 | 0.04 | 13 | 0.42 | 290 | 1.2 |
| 1160707 | Soil | 2.5 | <0.1 | 2.20 | 5.9 | <1 | 105 | <0.1 | 0.12 | <0.1 | 8.9 | 21 | 27.6 | 3.84 | 8 | 0.03 | 0.28 | 5 | 0.65 | 436 | 0.8 |
| 1160710 | Soil | 0.9 | <0.1 | 1.58 | 4.6 | 1 | 228 | 0.1 | 0.24 | <0.1 | 7.4 | 30 | 17.5 | 2.61 | 5 | <0.01 | 0.09 | 15 | 0.59 | 278 | 0.9 |
| 1160704 | Soil | 22.0 | <0.1 | 1.44 | 5.2 | 2 | 275 | 0.2 | 0.17 | <0.1 | 5.7 | 15 | 28.4 | 3.75 | 6 | 0.03 | 0.12 | 12 | 0.42 | 414 | 3.5 |
| 1160705 | Soil | <0.5 | <0.1 | 1.62 | 2.4 | <1 | 484 | <0.1 | 0.29 | 0.3 | 9.4 | 13 | 38.6 | 3.69 | 8 | 0.01 | 0.21 | 4 | 0.86 | 795 | 0.8 |

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Project: TSL
Report Date: August 20, 2011



# CERTIFICATE OF ANALYSIS DAW11000135.1

| | | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Analyte | Na | Ni | P | Pb | S | Sb | Sc | Se | Sr | Te | Th | Ti | Tl | U | V | W | Zn |
| | | Unit | % | ppm | % | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| | | MDL | 0.001 | 0.1 | 0.001 | 0.1 | 0.05 | 0.1 | 0.1 | 0.5 | 1 | 0.2 | 0.1 | 0.001 | 0.1 | 0.1 | 2 | 0.1 | 1 |
| 1160789 | Soil | | 0.009 | 10.0 | 0.022 | 8.1 | <0.05 | 0.3 | 3.7 | <0.5 | 10 | <0.2 | 5.8 | 0.070 | 0.1 | 0.8 | 38 | <0.1 | 44 |
| 1160782 | Soil | | 0.017 | 7.6 | 0.054 | 38.2 | <0.05 | 0.3 | 7.3 | <0.5 | 16 | <0.2 | 1.9 | 0.100 | <0.1 | 0.4 | 50 | <0.1 | 225 |
| 1160770 | Soil | | 0.015 | 11.0 | 0.051 | 23.1 | <0.05 | 0.4 | 4.8 | 0.5 | 17 | <0.2 | 1.7 | 0.080 | <0.1 | 0.3 | 62 | <0.1 | 139 |
| 1160769 | Soil | | 0.008 | 5.8 | 0.031 | 9.6 | <0.05 | 0.2 | 6.2 | <0.5 | 9 | <0.2 | 3.4 | 0.052 | <0.1 | 0.7 | 28 | <0.1 | 113 |
| 1160772 | Soil | | 0.009 | 7.7 | 0.073 | 4.3 | <0.05 | 0.1 | 3.1 | <0.5 | 11 | <0.2 | 0.8 | 0.231 | 0.2 | 0.2 | 62 | <0.1 | 99 |
| 1160791 | Soil | | 0.009 | 8.8 | 0.025 | 28.7 | <0.05 | 0.3 | 6.1 | <0.5 | 8 | <0.2 | 9.6 | 0.097 | 0.2 | 1.0 | 37 | <0.1 | 75 |
| 1160787 | Soil | | 0.012 | 16.3 | 0.032 | 39.4 | <0.05 | 0.3 | 4.8 | <0.5 | 17 | <0.2 | 8.0 | 0.085 | <0.1 | 1.2 | 49 | 0.1 | 56 |
| 1160778 | Soil | | 0.014 | 5.7 | 0.052 | 10.2 | <0.05 | 0.2 | 1.1 | <0.5 | 11 | <0.2 | 0.2 | 0.027 | <0.1 | 0.6 | 23 | <0.1 | 25 |
| 1160771 | Soil | | 0.017 | 30.2 | 0.047 | 17.0 | <0.05 | 0.3 | 4.3 | <0.5 | 23 | <0.2 | 2.4 | 0.097 | <0.1 | 0.5 | 71 | <0.1 | 179 |
| 1160715 | Soil | | 0.009 | 11.0 | 0.037 | 15.0 | <0.05 | 0.5 | 2.8 | <0.5 | 10 | <0.2 | 2.2 | 0.076 | <0.1 | 0.4 | 73 | 0.1 | 53 |
| 1160709 | Soil | | 0.014 | 14.4 | 0.036 | 18.6 | <0.05 | 0.3 | 4.4 | <0.5 | 22 | <0.2 | 5.0 | 0.102 | <0.1 | 0.7 | 58 | <0.1 | 49 |
| 1160706 | Soil | | 0.018 | 30.5 | 0.035 | 9.9 | <0.05 | 0.2 | 4.9 | <0.5 | 21 | <0.2 | 2.3 | 0.098 | <0.1 | 0.5 | 74 | <0.1 | 888 |
| 1160714 | Soil | | 0.008 | 10.5 | 0.037 | 15.0 | <0.05 | 0.3 | 4.6 | <0.5 | 15 | <0.2 | 4.5 | 0.059 | <0.1 | 1.0 | 43 | 0.1 | 58 |
| 1160713 | Soil | | 0.008 | 12.3 | 0.023 | 40.2 | <0.05 | 0.5 | 4.4 | <0.5 | 15 | <0.2 | 6.3 | 0.029 | <0.1 | 0.8 | 39 | <0.1 | 61 |
| 1160711 | Soil | | 0.009 | 15.2 | 0.030 | 25.7 | <0.05 | 0.3 | 2.9 | <0.5 | 20 | <0.2 | 4.7 | 0.077 | <0.1 | 0.8 | 47 | 0.1 | 48 |
| 1160716 | Soil | | 0.016 | 13.6 | 0.050 | 20.7 | <0.05 | 0.4 | 6.1 | <0.5 | 20 | <0.2 | 3.3 | 0.088 | 0.1 | 0.5 | 59 | <0.1 | 126 |
| 1160708 | Soil | | 0.008 | 6.6 | 0.050 | 5.1 | <0.05 | 0.4 | 2.2 | <0.5 | 10 | <0.2 | 1.0 | 0.122 | 0.1 | 0.3 | 24 | <0.1 | 68 |
| 1160712 | Soil | | 0.009 | 15.5 | 0.025 | 20.0 | <0.05 | 1.5 | 3.1 | 0.6 | 20 | <0.2 | 5.3 | 0.058 | <0.1 | 0.8 | 54 | 0.1 | 54 |
| 1160707 | Soil | | 0.009 | 11.5 | 0.039 | 7.3 | <0.05 | 0.4 | 3.8 | <0.5 | 10 | <0.2 | 1.8 | 0.177 | <0.1 | 0.3 | 50 | 0.1 | 77 |
| 1160710 | Soil | | 0.011 | 16.5 | 0.027 | 29.5 | <0.05 | 0.3 | 3.6 | <0.5 | 22 | <0.2 | 5.4 | 0.109 | <0.1 | 0.8 | 50 | <0.1 | 51 |
| 1160704 | Soil | | 0.007 | 8.6 | 0.018 | 30.5 | <0.05 | 0.5 | 8.1 | <0.5 | 22 | <0.2 | 3.3 | 0.045 | <0.1 | 0.8 | 36 | <0.1 | 131 |
| 1160705 | Soil | | 0.012 | 5.4 | 0.076 | 20.1 | <0.05 | 0.2 | 11.0 | <0.5 | 14 | <0.2 | 1.6 | 0.055 | <0.1 | 0.3 | 34 | <0.1 | 174 |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

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Project: TSL
Report Date: August 20, 2011



# QUALITY CONTROL REPORT DAW11000135.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Au | Ag | Al | As | B | Ba | Bi | Ca | Cd | Co | Cr | Cu | Fe | Ga | Hg | K | La | Mg | Mn | Mo |
| | Unit | ppb | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | % | ppm | ppm |
| | MDL | 0.5 | 0.1 | 0.01 | 0.5 | 1 | 1 | 0.1 | 0.01 | 0.1 | 0.1 | 1 | 0.1 | 0.01 | 1 | 0.01 | 0.01 | 1 | 0.01 | 1 | 0.1 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | | |
| 1160586 | Soil | 15.0 | <0.1 | 2.08 | 5.5 | <1 | 281 | 0.2 | 0.16 | 0.1 | 9.9 | 21 | 54.0 | 3.78 | 9 | 0.02 | 0.28 | 5 | 0.66 | 440 | 1.0 |
| REP 1160586 | QC | 15.2 | <0.1 | 2.04 | 5.6 | <1 | 278 | 0.2 | 0.16 | 0.2 | 9.7 | 22 | 54.0 | 3.79 | 9 | 0.02 | 0.28 | 5 | 0.65 | 450 | 0.9 |
| 1160728 | Soil | 7.0 | <0.1 | 2.11 | 5.1 | <1 | 368 | 0.1 | 0.47 | <0.1 | 16.7 | 54 | 40.4 | 4.09 | 10 | 0.02 | 0.11 | 13 | 1.17 | 563 | 0.7 |
| REP 1160728 | QC | 6.2 | <0.1 | 2.16 | 4.8 | <1 | 358 | 0.1 | 0.49 | <0.1 | 16.4 | 54 | 40.6 | 4.08 | 10 | 0.02 | 0.11 | 13 | 1.18 | 561 | 0.7 |
| 1160775 | Soil | 5.3 | <0.1 | 1.93 | 7.7 | 2 | 385 | 0.1 | 0.33 | <0.1 | 10.7 | 40 | 32.7 | 3.23 | 6 | 0.05 | 0.07 | 19 | 0.60 | 512 | 0.8 |
| REP 1160775 | QC | 3.1 | <0.1 | 1.89 | 8.4 | 3 | 388 | 0.1 | 0.34 | <0.1 | 11.1 | 41 | 34.2 | 3.30 | 6 | 0.06 | 0.07 | 19 | 0.61 | 538 | 0.9 |
| 1160715 | Soil | 1.4 | <0.1 | 1.53 | 9.5 | <1 | 134 | 0.2 | 0.12 | 0.2 | 6.2 | 23 | 12.9 | 3.59 | 7 | 0.03 | 0.05 | 8 | 0.32 | 348 | 1.7 |
| REP 1160715 | QC | 1.7 | <0.1 | 1.58 | 9.9 | <1 | 137 | 0.2 | 0.12 | 0.2 | 6.0 | 24 | 12.5 | 3.49 | 7 | 0.02 | 0.05 | 9 | 0.33 | 333 | 1.6 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS8 | Standard | 101.3 | 1.7 | 0.82 | 24.1 | 2 | 249 | 6.9 | 0.63 | 2.2 | 6.8 | 106 | 98.7 | 2.29 | 4 | 0.19 | 0.40 | 13 | 0.58 | 567 | 12.3 |
| STD DS8 | Standard | 115.8 | 1.9 | 0.95 | 26.6 | 2 | 297 | 7.0 | 0.72 | 2.5 | 8.5 | 121 | 112.8 | 2.59 | 5 | 0.22 | 0.44 | 16 | 0.64 | 644 | 14.2 |
| STD DS8 | Standard | 119.0 | 1.9 | 0.91 | 24.5 | 4 | 282 | 6.6 | 0.70 | 2.2 | 7.3 | 114 | 106.1 | 2.39 | 5 | 0.20 | 0.44 | 13 | 0.58 | 582 | 12.8 |
| STD DS8 Expected | | 107 | 1.69 | 0.93 | 26 | 2.6 | 279 | 6.67 | 0.7 | 2.38 | 7.5 | 115 | 110 | 2.46 | 4.7 | 0.192 | 0.41 | 14.6 | 0.6045 | 615 | 13.44 |
| BLK | Blank | <0.5 | <0.1 | <0.01 | <0.5 | <1 | <1 | <0.1 | <0.01 | <0.1 | <0.1 | <1 | <0.1 | <0.01 | <1 | <0.01 | <0.01 | <1 | <0.01 | <1 | <0.1 |
| BLK | Blank | <0.5 | <0.1 | <0.01 | <0.5 | <1 | <1 | <0.1 | <0.01 | <0.1 | <0.1 | <1 | <0.1 | <0.01 | <1 | <0.01 | <0.01 | <1 | <0.01 | <1 | <0.1 |
| BLK | Blank | <0.5 | <0.1 | <0.01 | <0.5 | <1 | <1 | <0.1 | <0.01 | <0.1 | <0.1 | <1 | <0.1 | <0.01 | <1 | <0.01 | <0.01 | <1 | <0.01 | <1 | <0.1 |

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Project: TSL
Report Date: August 20, 2011



# QUALITY CONTROL REPORT DAW11000135.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Na | Ni | P | Pb | S | Sb | Sc | Se | Sr | Te | Th | Ti | Tl | U | V | W | Zn |
| | Unit | % | ppm | % | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| | MDL | 0.001 | 0.1 | 0.001 | 0.1 | 0.05 | 0.1 | 0.1 | 0.5 | 1 | 0.2 | 0.1 | 0.001 | 0.1 | 0.1 | 2 | 0.1 | 1 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | |
| 1160586 | Soil | 0.010 | 13.0 | 0.027 | 26.1 | <0.05 | 0.3 | 4.7 | <0.5 | 14 | 0.2 | 1.8 | 0.130 | 0.2 | 0.4 | 53 | 0.1 | 183 |
| REP 1160586 | QC | 0.011 | 13.0 | 0.027 | 26.9 | <0.05 | 0.3 | 4.7 | <0.5 | 14 | <0.2 | 1.9 | 0.132 | 0.2 | 0.4 | 54 | 0.2 | 180 |
| 1160728 | Soil | 0.021 | 25.3 | 0.032 | 17.3 | <0.05 | 0.3 | 7.7 | <0.5 | 33 | <0.2 | 2.6 | 0.144 | 0.1 | 0.5 | 98 | 0.1 | 109 |
| REP 1160728 | QC | 0.021 | 25.5 | 0.033 | 17.0 | <0.05 | 0.3 | 8.0 | <0.5 | 34 | <0.2 | 2.7 | 0.150 | <0.1 | 0.5 | 101 | <0.1 | 109 |
| 1160775 | Soil | 0.017 | 25.2 | 0.041 | 30.9 | <0.05 | 0.4 | 7.2 | 0.5 | 30 | <0.2 | 6.2 | 0.093 | <0.1 | 1.2 | 62 | 0.1 | 61 |
| REP 1160775 | QC | 0.023 | 25.6 | 0.042 | 30.0 | <0.05 | 0.5 | 6.8 | <0.5 | 30 | <0.2 | 6.1 | 0.095 | <0.1 | 1.3 | 63 | 0.1 | 63 |
| 1160715 | Soil | 0.009 | 11.0 | 0.037 | 15.0 | <0.05 | 0.5 | 2.8 | <0.5 | 10 | <0.2 | 2.2 | 0.076 | <0.1 | 0.4 | 73 | 0.1 | 53 |
| REP 1160715 | QC | 0.010 | 11.0 | 0.039 | 14.9 | <0.05 | 0.5 | 2.7 | <0.5 | 11 | <0.2 | 2.2 | 0.078 | <0.1 | 0.4 | 72 | 0.1 | 53 |
| Reference Materials | | | | | | | | | | | | | | | | | | |
| STD DS8 | Standard | 0.076 | 34.9 | 0.071 | 129.5 | 0.15 | 5.8 | 2.0 | 5.2 | 65 | 5.0 | 6.9 | 0.103 | 5.1 | 2.8 | 37 | 2.8 | 299 |
| STD DS8 | Standard | 0.093 | 39.5 | 0.084 | 127.6 | 0.16 | 6.0 | 2.3 | 5.6 | 72 | 5.3 | 6.9 | 0.128 | 5.8 | 2.9 | 44 | 3.1 | 328 |
| STD DS8 | Standard | 0.100 | 37.2 | 0.077 | 127.3 | 0.14 | 5.9 | 2.7 | 5.2 | 65 | 5.1 | 6.5 | 0.117 | 5.4 | 2.8 | 42 | 3.1 | 313 |
| STD DS8 Expected | | 0.0883 | 38.1 | 0.08 | 123 | 0.1679 | 5.7 | 2.3 | 5.23 | 67.7 | 5 | 6.89 | 0.113 | 5.4 | 2.8 | 41.1 | 3 | 312 |
| BLK | Blank | <0.001 | <0.1 | <0.001 | <0.1 | <0.05 | <0.1 | <0.1 | <0.5 | <1 | <0.2 | <0.1 | <0.001 | <0.1 | <0.1 | <2 | <0.1 | <1 |
| BLK | Blank | <0.001 | <0.1 | <0.001 | <0.1 | <0.05 | <0.1 | <0.1 | <0.5 | <1 | <0.2 | <0.1 | <0.001 | <0.1 | <0.1 | <2 | <0.1 | <1 |
| BLK | Blank | <0.001 | <0.1 | <0.001 | <0.1 | <0.05 | <0.1 | <0.1 | <0.5 | <1 | <0.2 | <0.1 | <0.001 | <0.1 | <0.1 | <2 | <0.1 | <1 |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.