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 02, 2011
Report Date: August 21, 2011


# CERTIFICATE OF ANALYSIS DAW11000134.1

## CLIENT JOB INFORMATION

Project: TSL
Shipment ID: TSL2011-03
P.O. Number
Number of Samples: 113

## 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 | 113 | Dry at 60C sieve 100g to -80 mesh | | | WHI |
| Dry at 60C | 113 | Dry at 60C | | | WHI |
| 1DX2 | 113 | 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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Report Date: August 21, 2011



# CERTIFICATE OF ANALYSIS DAW11000134.1

| | 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 |
| 1161442 | Soil | 0.6 | <0.1 | 2.50 | 1.6 | <1 | 327 | <0.1 | 0.44 | 0.1 | 20.1 | 44 | 57.2 | 3.27 | 6 | <0.01 | 0.56 | 3 | 1.82 | 335 | 0.2 |
| 1161443 | Soil | 1.7 | <0.1 | 2.60 | 4.7 | <1 | 286 | <0.1 | 0.40 | <0.1 | 19.1 | 45 | 57.5 | 3.48 | 7 | <0.01 | 0.39 | 4 | 1.56 | 345 | 0.5 |
| 1161446 | Soil | 2.3 | 0.2 | 2.26 | 5.9 | 1 | 209 | 0.1 | 0.25 | <0.1 | 12.3 | 47 | 51.5 | 3.46 | 7 | 0.02 | 0.36 | 6 | 1.29 | 378 | 1.5 |
| 1161441 | Soil | 1.4 | 0.2 | 1.99 | 73.8 | 1 | 434 | <0.1 | 0.37 | <0.1 | 19.7 | 26 | 87.0 | 4.19 | 7 | 0.03 | 0.63 | 4 | 1.06 | 400 | 0.8 |
| 1161447 | Soil | 2.0 | <0.1 | 2.59 | 8.8 | 1 | 137 | 0.2 | 0.22 | 0.1 | 16.8 | 50 | 37.3 | 4.53 | 8 | 0.03 | 0.18 | 6 | 1.07 | 516 | 1.6 |
| 1161444 | Soil | 2.5 | 0.2 | 1.91 | 5.0 | <1 | 160 | 0.1 | 0.34 | <0.1 | 11.2 | 29 | 37.4 | 2.93 | 6 | 0.02 | 0.18 | 7 | 0.91 | 276 | 0.7 |
| 1160757 | Soil | 4.2 | 0.1 | 1.81 | 6.2 | 1 | 189 | 0.1 | 0.22 | <0.1 | 10.6 | 36 | 35.3 | 2.58 | 6 | 0.02 | 0.11 | 9 | 0.70 | 337 | 0.8 |
| 1161450 | Soil | 3.8 | <0.1 | 1.95 | 6.0 | <1 | 295 | 0.1 | 0.39 | <0.1 | 11.9 | 40 | 48.9 | 2.73 | 6 | 0.02 | 0.08 | 10 | 0.93 | 319 | 0.7 |
| 1161445 | Soil | 6.7 | 0.1 | 2.10 | 6.1 | 1 | 207 | 0.1 | 0.32 | <0.1 | 14.5 | 41 | 62.0 | 3.04 | 6 | 0.03 | 0.18 | 9 | 1.03 | 354 | 0.7 |
| 1161449 | Soil | 2.4 | <0.1 | 2.11 | 6.8 | 1 | 323 | 0.1 | 0.39 | <0.1 | 13.6 | 43 | 53.4 | 2.96 | 6 | 0.02 | 0.08 | 12 | 1.00 | 326 | 0.7 |
| 1160536 | Soil | <0.5 | <0.1 | 3.34 | 2.5 | <1 | 408 | <0.1 | 0.30 | <0.1 | 23.0 | 71 | 72.8 | 3.28 | 8 | <0.01 | 1.16 | 4 | 2.69 | 360 | 0.3 |
| 1161440 | Soil | 2.5 | 0.2 | 1.96 | 7.2 | 2 | 290 | <0.1 | 0.48 | <0.1 | 17.7 | 31 | 45.8 | 2.85 | 5 | 0.04 | 0.33 | 7 | 1.03 | 475 | 0.8 |
| 1161438 | Soil | 3.3 | 0.3 | 1.82 | 10.0 | 2 | 255 | 0.1 | 0.34 | <0.1 | 12.4 | 32 | 37.5 | 2.64 | 6 | 0.05 | 0.18 | 8 | 0.93 | 388 | 0.8 |
| 1161448 | Soil | 1.4 | 0.1 | 1.55 | 5.1 | 1 | 120 | 0.1 | 0.29 | 0.1 | 8.5 | 35 | 28.1 | 2.42 | 6 | 0.02 | 0.11 | 8 | 0.76 | 231 | 0.7 |
| 1161439 | Soil | 1.4 | <0.1 | 2.04 | 7.1 | 1 | 288 | 0.1 | 0.63 | 0.1 | 12.8 | 32 | 30.7 | 2.79 | 6 | 0.05 | 0.07 | 12 | 0.73 | 460 | 1.0 |
| 1161437 | Soil | <0.5 | 0.1 | 2.00 | 7.5 | 1 | 283 | 0.1 | 0.55 | 0.2 | 11.5 | 34 | 33.5 | 2.60 | 6 | 0.05 | 0.10 | 24 | 0.73 | 749 | 0.7 |
| 1161434 | Soil | 1.2 | <0.1 | 2.66 | 7.4 | 1 | 152 | 0.1 | 0.27 | <0.1 | 16.2 | 30 | 28.4 | 3.51 | 7 | 0.01 | 0.28 | 5 | 1.20 | 400 | 0.8 |
| 1161433 | Soil | 2.7 | <0.1 | 2.91 | 4.1 | 1 | 104 | <0.1 | 0.17 | <0.1 | 22.4 | 65 | 57.5 | 3.80 | 7 | <0.01 | 0.51 | 3 | 2.15 | 429 | 0.6 |
| 1161435 | Soil | 2.0 | 0.2 | 2.47 | 9.7 | <1 | 209 | <0.1 | 0.37 | <0.1 | 18.2 | 45 | 46.3 | 3.55 | 7 | 0.02 | 0.44 | 5 | 1.46 | 452 | 0.7 |
| 1161436 | Soil | 2.4 | 0.2 | 2.18 | 9.2 | 2 | 265 | <0.1 | 0.46 | 0.2 | 14.9 | 37 | 46.3 | 3.02 | 6 | 0.04 | 0.32 | 9 | 1.10 | 429 | 0.8 |
| 1160512 | Soil | 15.6 | 0.2 | 1.89 | 5.2 | 2 | 453 | 0.2 | 0.35 | 0.2 | 9.2 | 30 | 29.9 | 2.81 | 6 | 0.04 | 0.11 | 18 | 0.61 | 596 | 1.0 |
| 1160511 | Soil | 3.0 | <0.1 | 1.75 | 4.8 | 2 | 320 | 0.2 | 0.20 | 0.1 | 8.8 | 21 | 20.3 | 2.94 | 8 | 0.03 | 0.38 | 10 | 0.57 | 475 | 0.9 |
| 1160513 | Soil | 2.3 | <0.1 | 2.33 | 7.1 | 2 | 469 | 0.2 | 0.36 | 0.2 | 12.8 | 37 | 27.6 | 3.52 | 7 | 0.03 | 0.09 | 12 | 0.67 | 515 | 1.0 |
| 1160515 | Soil | 2.0 | 0.1 | 2.09 | 5.7 | 2 | 219 | 0.1 | 0.33 | 0.1 | 11.3 | 33 | 36.0 | 2.61 | 6 | 0.05 | 0.10 | 10 | 0.76 | 245 | 0.7 |
| 1160514 | Soil | 2.6 | 0.2 | 2.02 | 2.6 | 1 | 241 | 0.1 | 0.29 | 0.2 | 9.3 | 26 | 34.1 | 2.85 | 7 | 0.06 | 0.08 | 8 | 0.87 | 351 | 0.9 |
| 1160501 | Soil | 2.4 | 0.1 | 2.08 | 5.1 | 2 | 305 | 0.1 | 0.58 | 0.1 | 18.9 | 46 | 53.1 | 3.79 | 7 | 0.03 | 0.24 | 16 | 1.24 | 679 | 1.1 |
| 1160504 | Soil | 4.1 | 0.1 | 2.18 | 3.8 | 2 | 276 | 0.1 | 0.66 | 0.2 | 16.6 | 47 | 59.5 | 2.95 | 6 | 0.04 | 0.13 | 11 | 1.26 | 533 | 0.7 |
| 1160503 | Soil | 5.3 | 0.2 | 2.07 | 4.9 | 2 | 168 | 0.1 | 0.36 | 0.1 | 12.4 | 38 | 44.2 | 2.80 | 6 | 0.06 | 0.09 | 8 | 0.95 | 256 | 0.9 |
| 1160502 | Soil | 4.8 | 0.1 | 1.86 | 4.3 | 1 | 225 | 0.1 | 0.36 | 0.1 | 11.1 | 36 | 40.9 | 2.57 | 6 | 0.05 | 0.12 | 11 | 0.83 | 225 | 0.7 |
| 1160516 | Soil | 2.4 | <0.1 | 1.94 | 5.0 | 2 | 219 | 0.1 | 0.40 | <0.1 | 11.0 | 36 | 32.6 | 2.46 | 6 | 0.02 | 0.07 | 10 | 0.84 | 305 | 0.7 |

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# CERTIFICATE OF ANALYSIS DAW11000134.1

| | 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 |
| 1161442 | Soil | 0.027 | 20.5 | 0.053 | 1.8 | <0.05 | 0.1 | 2.1 | <0.5 | 23 | <0.2 | 0.5 | 0.223 | 0.2 | 0.1 | 110 | <0.1 | 59 |
| 1161443 | Soil | 0.026 | 24.0 | 0.032 | 4.2 | <0.05 | 0.3 | 2.9 | <0.5 | 23 | <0.2 | 1.2 | 0.214 | 0.2 | 0.2 | 112 | <0.1 | 64 |
| 1161446 | Soil | 0.017 | 20.0 | 0.033 | 6.4 | 0.11 | 0.3 | 4.6 | <0.5 | 21 | <0.2 | 1.8 | 0.166 | 0.1 | 0.5 | 116 | <0.1 | 53 |
| 1161441 | Soil | 0.021 | 17.4 | 0.069 | 4.0 | <0.05 | 3.8 | 5.4 | <0.5 | 25 | <0.2 | 1.2 | 0.152 | 2.4 | 0.4 | 148 | <0.1 | 75 |
| 1161447 | Soil | 0.014 | 21.1 | 0.037 | 6.8 | <0.05 | 0.4 | 4.6 | 0.5 | 16 | <0.2 | 2.2 | 0.164 | <0.1 | 0.4 | 116 | <0.1 | 55 |
| 1161444 | Soil | 0.022 | 16.0 | 0.059 | 5.8 | <0.05 | 0.3 | 3.6 | <0.5 | 29 | <0.2 | 2.2 | 0.127 | 0.1 | 0.5 | 84 | <0.1 | 53 |
| 1160757 | Soil | 0.017 | 18.3 | 0.016 | 7.4 | <0.05 | 0.5 | 4.0 | <0.5 | 20 | <0.2 | 2.9 | 0.106 | <0.1 | 0.6 | 70 | <0.1 | 50 |
| 1161450 | Soil | 0.021 | 22.7 | 0.040 | 6.3 | <0.05 | 0.5 | 4.8 | <0.5 | 26 | <0.2 | 2.7 | 0.116 | <0.1 | 0.6 | 75 | 0.1 | 47 |
| 1161445 | Soil | 0.024 | 22.2 | 0.027 | 6.0 | <0.05 | 0.3 | 5.5 | <0.5 | 26 | <0.2 | 3.1 | 0.151 | 0.2 | 0.8 | 93 | <0.1 | 58 |
| 1161449 | Soil | 0.022 | 26.2 | 0.039 | 6.5 | <0.05 | 0.4 | 4.9 | <0.5 | 28 | <0.2 | 3.2 | 0.122 | <0.1 | 0.6 | 79 | <0.1 | 53 |
| 1160536 | Soil | 0.026 | 28.5 | 0.034 | 2.4 | <0.05 | <0.1 | 4.1 | <0.5 | 21 | <0.2 | 0.7 | 0.235 | 0.3 | 0.2 | 114 | <0.1 | 58 |
| 1161440 | Soil | 0.020 | 16.8 | 0.059 | 4.3 | <0.05 | 0.4 | 4.8 | <0.5 | 28 | <0.2 | 1.6 | 0.126 | 0.3 | 0.5 | 87 | <0.1 | 57 |
| 1161438 | Soil | 0.018 | 16.3 | 0.045 | 5.8 | <0.05 | 0.6 | 4.4 | <0.5 | 26 | <0.2 | 1.6 | 0.125 | 0.2 | 0.7 | 79 | <0.1 | 56 |
| 1161448 | Soil | 0.019 | 15.3 | 0.050 | 6.5 | <0.05 | 0.2 | 3.6 | <0.5 | 22 | <0.2 | 1.6 | 0.113 | <0.1 | 0.4 | 77 | <0.1 | 52 |
| 1161439 | Soil | 0.026 | 22.0 | 0.031 | 8.8 | <0.05 | 0.5 | 5.2 | <0.5 | 32 | <0.2 | 2.7 | 0.110 | <0.1 | 0.7 | 73 | <0.1 | 58 |
| 1161437 | Soil | 0.021 | 29.5 | 0.027 | 7.7 | <0.05 | 0.4 | 4.6 | <0.5 | 24 | <0.2 | 2.3 | 0.094 | <0.1 | 0.9 | 69 | <0.1 | 60 |
| 1161434 | Soil | 0.018 | 20.4 | 0.034 | 6.2 | <0.05 | 0.4 | 3.2 | <0.5 | 19 | <0.2 | 1.6 | 0.165 | 0.1 | 0.3 | 109 | <0.1 | 69 |
| 1161433 | Soil | 0.015 | 32.6 | 0.019 | 4.3 | <0.05 | 0.3 | 2.4 | <0.5 | 14 | <0.2 | 0.9 | 0.243 | 0.2 | 0.2 | 125 | <0.1 | 60 |
| 1161435 | Soil | 0.019 | 24.1 | 0.030 | 5.1 | <0.05 | 0.4 | 3.8 | <0.5 | 23 | <0.2 | 1.4 | 0.195 | 0.2 | 0.3 | 119 | <0.1 | 62 |
| 1161436 | Soil | 0.024 | 19.0 | 0.040 | 7.0 | <0.05 | 0.9 | 5.4 | <0.5 | 30 | <0.2 | 1.9 | 0.147 | 0.2 | 0.6 | 94 | <0.1 | 59 |
| 1160512 | Soil | 0.018 | 16.8 | 0.047 | 17.8 | <0.05 | 0.4 | 6.2 | <0.5 | 23 | <0.2 | 2.9 | 0.077 | <0.1 | 1.0 | 63 | <0.1 | 187 |
| 1160511 | Soil | 0.013 | 11.2 | 0.033 | 11.0 | <0.05 | 0.3 | 4.3 | <0.5 | 17 | <0.2 | 2.1 | 0.134 | 0.2 | 0.7 | 60 | <0.1 | 74 |
| 1160513 | Soil | 0.021 | 20.7 | 0.039 | 15.8 | <0.05 | 0.6 | 7.0 | <0.5 | 25 | <0.2 | 2.8 | 0.081 | <0.1 | 0.6 | 93 | <0.1 | 77 |
| 1160515 | Soil | 0.018 | 18.9 | 0.042 | 8.4 | <0.05 | 0.3 | 4.6 | <0.5 | 23 | <0.2 | 2.2 | 0.098 | <0.1 | 0.7 | 72 | 0.1 | 56 |
| 1160514 | Soil | 0.020 | 13.1 | 0.059 | 6.7 | <0.05 | 0.2 | 5.1 | <0.5 | 22 | <0.2 | 1.2 | 0.080 | <0.1 | 0.5 | 70 | <0.1 | 83 |
| 1160501 | Soil | 0.023 | 23.4 | 0.108 | 6.6 | <0.05 | 0.2 | 6.7 | <0.5 | 27 | <0.2 | 3.6 | 0.130 | 0.1 | 0.8 | 91 | 0.1 | 73 |
| 1160504 | Soil | 0.026 | 24.6 | 0.066 | 6.1 | <0.05 | 0.3 | 7.2 | <0.5 | 28 | <0.2 | 2.5 | 0.121 | <0.1 | 0.8 | 87 | <0.1 | 58 |
| 1160503 | Soil | 0.016 | 22.6 | 0.059 | 8.0 | <0.05 | 0.3 | 3.8 | <0.5 | 24 | <0.2 | 1.9 | 0.108 | <0.1 | 0.6 | 71 | 0.1 | 56 |
| 1160502 | Soil | 0.018 | 18.8 | 0.068 | 7.5 | <0.05 | 0.3 | 4.2 | <0.5 | 25 | <0.2 | 2.4 | 0.106 | 0.1 | 0.8 | 64 | <0.1 | 54 |
| 1160516 | Soil | 0.022 | 20.9 | 0.052 | 7.0 | <0.05 | 0.3 | 4.1 | <0.5 | 25 | <0.2 | 2.3 | 0.101 | <0.1 | 0.6 | 69 | 0.1 | 50 |

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| | 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 |
| 1161427 | Soil | 4.5 | <0.1 | 2.97 | 6.1 | 1 | 409 | <0.1 | 0.28 | 0.2 | 19.9 | 25 | 58.5 | 5.06 | 10 | <0.01 | 0.88 | 23 | 2.06 | 916 | 1.2 |
| 1161426 | Soil | 5.5 | <0.1 | 1.95 | 3.9 | 1 | 239 | 0.1 | 0.39 | <0.1 | 17.3 | 27 | 37.1 | 3.76 | 7 | 0.02 | 0.19 | 8 | 0.96 | 590 | 0.5 |
| 1161422 | Soil | 1.6 | <0.1 | 1.83 | 5.0 | 1 | 296 | 0.2 | 0.20 | <0.1 | 9.7 | 26 | 15.5 | 3.05 | 8 | 0.03 | 0.20 | 14 | 0.74 | 485 | 0.9 |
| 1161425 | Soil | 12.8 | <0.1 | 1.78 | 8.5 | 2 | 234 | 0.2 | 0.21 | 0.2 | 11.1 | 31 | 17.2 | 3.28 | 7 | 0.03 | 0.10 | 11 | 0.59 | 499 | 1.2 |
| 1161423 | Soil | 9.3 | 0.2 | 1.84 | 4.5 | 1 | 548 | 0.2 | 0.42 | 0.2 | 11.1 | 28 | 24.1 | 2.92 | 7 | 0.04 | 0.14 | 15 | 0.58 | 656 | 1.0 |
| 1161429 | Soil | 6.2 | <0.1 | 1.83 | 2.6 | <1 | 145 | <0.1 | 0.28 | <0.1 | 11.5 | 27 | 37.1 | 2.62 | 6 | 0.04 | 0.15 | 4 | 0.85 | 320 | 0.5 |
| 1161424 | Soil | 2.6 | <0.1 | 0.92 | 5.0 | <1 | 87 | 0.2 | 0.09 | 0.2 | 4.0 | 15 | 13.1 | 1.97 | 6 | 0.02 | 0.04 | 4 | 0.22 | 181 | 0.9 |
| 1161431 | Soil | 2.1 | 0.3 | 2.10 | 9.3 | 1 | 212 | 0.1 | 0.24 | 0.1 | 17.0 | 37 | 37.6 | 3.42 | 7 | 0.03 | 0.36 | 6 | 1.21 | 430 | 1.0 |
| 1161428 | Soil | 1.8 | 0.2 | 1.82 | 9.5 | 1 | 217 | <0.1 | 0.68 | 0.1 | 16.6 | 31 | 51.2 | 3.42 | 6 | 0.04 | 0.10 | 8 | 1.07 | 618 | 0.8 |
| 1161430 | Soil | 2.5 | 0.2 | 1.30 | 5.9 | 2 | 134 | <0.1 | 0.21 | <0.1 | 8.1 | 24 | 30.6 | 2.02 | 5 | 0.05 | 0.14 | 5 | 0.64 | 175 | 0.8 |
| 1161432 | Soil | <0.5 | <0.1 | 4.72 | 3.4 | <1 | 333 | <0.1 | 0.30 | 0.1 | 32.1 | 132 | 123.3 | 7.01 | 13 | <0.01 | 0.72 | 12 | 3.38 | 477 | 2.9 |
| 1160506 | Soil | 5.2 | <0.1 | 1.86 | 5.0 | 1 | 211 | 0.1 | 0.38 | 0.1 | 12.7 | 34 | 48.2 | 2.65 | 5 | 0.02 | 0.07 | 9 | 0.86 | 271 | 0.5 |
| 1160508 | Soil | 3.9 | <0.1 | 1.84 | 5.2 | 1 | 244 | 0.1 | 0.30 | <0.1 | 11.4 | 28 | 34.2 | 2.83 | 6 | 0.03 | 0.09 | 9 | 0.75 | 272 | 1.0 |
| 1160519 | Soil | 1.1 | <0.1 | 2.39 | 6.7 | <1 | 190 | <0.1 | 0.23 | 0.1 | 14.6 | 39 | 36.6 | 3.63 | 7 | 0.02 | 0.25 | 7 | 1.14 | 387 | 1.0 |
| 1160517 | Soil | 3.6 | 0.1 | 1.65 | 4.5 | <1 | 157 | <0.1 | 0.35 | <0.1 | 12.3 | 32 | 26.5 | 2.32 | 6 | 0.04 | 0.04 | 6 | 0.70 | 369 | 0.8 |
| 1160520 | Soil | 1.5 | <0.1 | 1.83 | 6.0 | 1 | 146 | 0.1 | 0.23 | 0.1 | 14.0 | 33 | 28.5 | 3.11 | 7 | 0.01 | 0.09 | 7 | 0.77 | 442 | 0.9 |
| 1160518 | Soil | 3.3 | 0.1 | 1.93 | 5.0 | <1 | 159 | <0.1 | 0.26 | <0.1 | 10.6 | 35 | 39.2 | 2.65 | 6 | 0.04 | 0.10 | 8 | 0.84 | 187 | 0.6 |
| 1160505 | Soil | 2.1 | <0.1 | 1.81 | 4.6 | <1 | 216 | <0.1 | 0.41 | 0.2 | 11.6 | 36 | 49.9 | 2.55 | 6 | 0.03 | 0.12 | 8 | 0.97 | 304 | 0.6 |
| 1160509 | Soil | 7.6 | 0.2 | 2.14 | 7.5 | 1 | 400 | 0.2 | 0.28 | <0.1 | 13.2 | 32 | 51.0 | 3.41 | 7 | 0.05 | 0.10 | 11 | 0.72 | 466 | 0.9 |
| 1160507 | Soil | 2.5 | 0.2 | 1.81 | 5.6 | 2 | 205 | <0.1 | 0.32 | <0.1 | 10.2 | 30 | 33.9 | 2.61 | 5 | 0.03 | 0.05 | 8 | 0.68 | 227 | 0.7 |
| 1160510 | Soil | 1.1 | 0.1 | 1.04 | 12.0 | <1 | 123 | 0.3 | 0.11 | 0.2 | 3.9 | 18 | 14.5 | 2.44 | 7 | 0.02 | 0.09 | 9 | 0.24 | 190 | 1.6 |
| 1161395 | Soil | 2.0 | 0.2 | 1.47 | 10.8 | <1 | 200 | <0.1 | 0.38 | <0.1 | 33.3 | 38 | 112.4 | 6.62 | 4 | 0.15 | 0.20 | 6 | 0.80 | 942 | 0.6 |
| 1161397 | Soil | 7.6 | <0.1 | 3.02 | 2.8 | <1 | 382 | <0.1 | 0.45 | <0.1 | 24.6 | 46 | 82.5 | 4.54 | 8 | <0.01 | 0.60 | 4 | 1.97 | 584 | 0.4 |
| 1161394 | Soil | <0.5 | <0.1 | 2.50 | 3.6 | <1 | 251 | <0.1 | 0.31 | <0.1 | 18.0 | 55 | 53.4 | 3.57 | 7 | <0.01 | 0.63 | 5 | 1.86 | 404 | 0.9 |
| 1161396 | Soil | 3.8 | 0.2 | 1.51 | 3.2 | <1 | 167 | <0.1 | 0.28 | 0.1 | 9.0 | 30 | 49.1 | 1.93 | 5 | 0.07 | 0.13 | 8 | 0.77 | 169 | 0.5 |
| 1161398 | Soil | 0.6 | <0.1 | 2.80 | 2.7 | 1 | 327 | <0.1 | 0.47 | 0.2 | 23.7 | 23 | 81.3 | 5.45 | 10 | 0.02 | 0.51 | 6 | 1.98 | 925 | 0.5 |
| 1161393 | Soil | <0.5 | <0.1 | 2.95 | 2.1 | 1 | 371 | <0.1 | 0.70 | 0.1 | 24.5 | 45 | 43.0 | 4.62 | 9 | 0.01 | 0.77 | 3 | 2.44 | 562 | 0.2 |
| 1161413 | Soil | 5.1 | <0.1 | 1.53 | 3.3 | 1 | 205 | 0.1 | 0.26 | 0.2 | 7.9 | 28 | 21.0 | 2.10 | 6 | 0.07 | 0.08 | 10 | 0.58 | 195 | 0.3 |
| 1161392 | Soil | 3.1 | 0.2 | 1.95 | 5.1 | <1 | 242 | <0.1 | 0.39 | 0.1 | 15.0 | 31 | 53.7 | 3.14 | 6 | 0.03 | 0.26 | 7 | 0.99 | 412 | 0.9 |
| 1161418 | Soil | <0.5 | <0.1 | 4.08 | 1.8 | <1 | 531 | <0.1 | 0.60 | 0.4 | 38.9 | 21 | 96.8 | 8.59 | 15 | <0.01 | 1.44 | 7 | 3.63 | 1197 | 0.9 |

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Project: TSL
Report Date: August 21, 2011



# CERTIFICATE OF ANALYSIS DAW11000134.1

| | 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 |
| 1161427 | Soil | 0.021 | 14.5 | 0.043 | 7.6 | <0.05 | 0.1 | 11.9 | <0.5 | 14 | <0.2 | 4.3 | 0.153 | 0.4 | 0.6 | 138 | <0.1 | 97 |
| 1161426 | Soil | 0.032 | 17.2 | 0.051 | 5.5 | <0.05 | 0.3 | 7.6 | <0.5 | 20 | <0.2 | 2.3 | 0.092 | 0.1 | 0.4 | 111 | 0.1 | 80 |
| 1161422 | Soil | 0.012 | 12.7 | 0.042 | 14.6 | <0.05 | 0.3 | 5.0 | <0.5 | 18 | <0.2 | 3.5 | 0.100 | 0.1 | 0.8 | 60 | <0.1 | 73 |
| 1161425 | Soil | 0.016 | 17.7 | 0.041 | 15.5 | <0.05 | 0.5 | 4.9 | <0.5 | 16 | <0.2 | 3.2 | 0.077 | 0.1 | 0.6 | 73 | 0.1 | 70 |
| 1161423 | Soil | 0.014 | 16.9 | 0.041 | 17.3 | <0.05 | 0.6 | 5.5 | <0.5 | 26 | <0.2 | 2.6 | 0.041 | <0.1 | 0.8 | 58 | <0.1 | 82 |
| 1161429 | Soil | 0.021 | 12.4 | 0.052 | 6.2 | <0.05 | 0.3 | 4.1 | <0.5 | 18 | <0.2 | 0.9 | 0.086 | <0.1 | 0.4 | 83 | <0.1 | 54 |
| 1161424 | Soil | 0.008 | 7.1 | 0.032 | 13.6 | <0.05 | 0.2 | 1.9 | 0.5 | 8 | <0.2 | 0.7 | 0.060 | <0.1 | 0.3 | 50 | 0.1 | 38 |
| 1161431 | Soil | 0.011 | 18.7 | 0.041 | 6.9 | <0.05 | 0.4 | 4.4 | 0.6 | 16 | <0.2 | 2.3 | 0.146 | 0.1 | 0.4 | 90 | <0.1 | 68 |
| 1161428 | Soil | 0.015 | 19.3 | 0.057 | 5.6 | <0.05 | 0.1 | 7.2 | <0.5 | 24 | <0.2 | 1.2 | 0.067 | <0.1 | 0.6 | 88 | <0.1 | 73 |
| 1161430 | Soil | 0.013 | 10.3 | 0.052 | 5.5 | <0.05 | 0.2 | 3.0 | <0.5 | 13 | <0.2 | 0.7 | 0.058 | <0.1 | 0.5 | 57 | <0.1 | 43 |
| 1161432 | Soil | 0.037 | 47.1 | 0.047 | 8.2 | 0.20 | <0.1 | 10.7 | 2.3 | 33 | <0.2 | 2.4 | 0.269 | 0.1 | 0.9 | 207 | <0.1 | 103 |
| 1160506 | Soil | 0.013 | 21.5 | 0.052 | 7.2 | <0.05 | 0.2 | 4.3 | <0.5 | 19 | <0.2 | 2.2 | 0.112 | <0.1 | 0.6 | 67 | 0.1 | 57 |
| 1160508 | Soil | 0.012 | 17.1 | 0.047 | 7.7 | <0.05 | 0.2 | 4.4 | 0.7 | 19 | <0.2 | 1.8 | 0.070 | <0.1 | 0.6 | 66 | <0.1 | 58 |
| 1160519 | Soil | 0.013 | 21.4 | 0.043 | 7.2 | <0.05 | 0.3 | 3.7 | <0.5 | 14 | <0.2 | 2.1 | 0.166 | <0.1 | 0.5 | 97 | 0.1 | 62 |
| 1160517 | Soil | 0.014 | 16.3 | 0.055 | 6.7 | <0.05 | 0.2 | 3.3 | <0.5 | 19 | <0.2 | 1.1 | 0.070 | <0.1 | 0.5 | 60 | 0.1 | 47 |
| 1160520 | Soil | 0.010 | 18.1 | 0.042 | 6.9 | <0.05 | 0.2 | 3.5 | <0.5 | 16 | <0.2 | 2.1 | 0.113 | <0.1 | 0.4 | 78 | 0.1 | 56 |
| 1160518 | Soil | 0.011 | 17.7 | 0.050 | 6.6 | <0.05 | 0.2 | 3.8 | <0.5 | 16 | <0.2 | 1.8 | 0.108 | <0.1 | 0.6 | 65 | <0.1 | 50 |
| 1160505 | Soil | 0.014 | 20.3 | 0.060 | 6.1 | <0.05 | 0.2 | 4.1 | <0.5 | 20 | <0.2 | 1.9 | 0.112 | <0.1 | 0.5 | 71 | 0.1 | 55 |
| 1160509 | Soil | 0.014 | 22.5 | 0.051 | 24.4 | <0.05 | 0.4 | 7.6 | 0.9 | 18 | <0.2 | 3.4 | 0.077 | 0.1 | 0.7 | 84 | 0.1 | 84 |
| 1160507 | Soil | 0.014 | 17.8 | 0.057 | 7.3 | <0.05 | 0.2 | 3.7 | <0.5 | 19 | <0.2 | 1.5 | 0.066 | <0.1 | 0.6 | 60 | 0.1 | 48 |
| 1160510 | Soil | 0.009 | 7.5 | 0.029 | 22.2 | <0.05 | 0.3 | 1.9 | <0.5 | 11 | <0.2 | 1.7 | 0.073 | 0.1 | 0.4 | 62 | 0.1 | 57 |
| 1161395 | Soil | 0.015 | 33.6 | 0.040 | 6.3 | <0.05 | 2.8 | 20.7 | 0.8 | 19 | <0.2 | 0.9 | 0.019 | 0.1 | 0.3 | 154 | <0.1 | 67 |
| 1161397 | Soil | 0.022 | 21.2 | 0.075 | 4.0 | <0.05 | 0.1 | 6.0 | <0.5 | 22 | <0.2 | 1.1 | 0.141 | 0.1 | 0.3 | 138 | <0.1 | 77 |
| 1161394 | Soil | 0.015 | 24.6 | 0.029 | 4.8 | <0.05 | 0.1 | 4.4 | <0.5 | 19 | <0.2 | 1.5 | 0.203 | 0.2 | 0.4 | 104 | <0.1 | 59 |
| 1161396 | Soil | 0.017 | 15.3 | 0.056 | 6.2 | <0.05 | 0.1 | 4.7 | 0.6 | 19 | <0.2 | 1.1 | 0.081 | <0.1 | 0.8 | 49 | 0.1 | 40 |
| 1161398 | Soil | 0.013 | 14.9 | 0.132 | 2.9 | <0.05 | 0.1 | 14.1 | <0.5 | 15 | <0.2 | 1.1 | 0.112 | 0.1 | 0.4 | 158 | <0.1 | 155 |
| 1161393 | Soil | 0.015 | 23.4 | 0.089 | 3.3 | <0.05 | <0.1 | 2.2 | <0.5 | 40 | <0.2 | 0.8 | 0.303 | 0.2 | 0.2 | 141 | <0.1 | 95 |
| 1161413 | Soil | 0.015 | 15.8 | 0.044 | 17.1 | <0.05 | 0.3 | 5.8 | 0.5 | 17 | <0.2 | 2.0 | 0.067 | <0.1 | 0.6 | 56 | <0.1 | 77 |
| 1161392 | Soil | 0.018 | 16.8 | 0.055 | 6.1 | <0.05 | 0.1 | 4.1 | <0.5 | 24 | <0.2 | 1.7 | 0.143 | 0.1 | 0.6 | 93 | <0.1 | 59 |
| 1161418 | Soil | 0.017 | 11.8 | 0.206 | 3.7 | <0.05 | <0.1 | 16.0 | 1.3 | 16 | <0.2 | 1.1 | 0.285 | 0.2 | 0.4 | 237 | <0.1 | 389 |

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Project: TSL
Report Date: August 21, 2011



# CERTIFICATE OF ANALYSIS DAW11000134.1

| | 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 |
| 1161416 | Soil | 1.7 | 0.2 | 2.18 | 4.6 | 1 | 415 | <0.1 | 0.39 | 0.4 | 18.4 | 30 | 84.9 | 4.48 | 7 | 0.03 | 0.32 | 11 | 1.15 | 619 | 1.8 |
| 1161419 | Soil | 1.4 | <0.1 | 1.93 | 5.9 | 1 | 163 | <0.1 | 0.35 | <0.1 | 13.8 | 35 | 41.6 | 3.00 | 6 | 0.01 | 0.09 | 8 | 0.99 | 371 | 0.7 |
| 1161417 | Soil | 3.1 | <0.1 | 4.00 | 1.8 | 1 | 547 | <0.1 | 0.60 | 0.4 | 42.9 | 21 | 103.1 | 9.07 | 15 | <0.01 | 1.41 | 7 | 3.55 | 1327 | 1.0 |
| 1161420 | Soil | 1.0 | <0.1 | 2.03 | 4.9 | 1 | 255 | <0.1 | 0.38 | 0.1 | 14.1 | 38 | 49.7 | 2.91 | 5 | 0.01 | 0.12 | 8 | 1.10 | 263 | 0.5 |
| 1161405 | Soil | <0.5 | 0.1 | 1.61 | 4.9 | 2 | 416 | 0.1 | 0.29 | 0.2 | 9.7 | 21 | 27.1 | 2.93 | 6 | 0.06 | 0.12 | 31 | 0.50 | 506 | 1.0 |
| 1161421 | Soil | 4.1 | 0.2 | 2.33 | 6.6 | 1 | 197 | <0.1 | 0.30 | 0.1 | 16.0 | 42 | 33.0 | 3.62 | 6 | <0.01 | 0.44 | 6 | 1.31 | 393 | 0.8 |
| 1161407 | Soil | <0.5 | <0.1 | 1.13 | 3.5 | <1 | 96 | <0.1 | 0.18 | <0.1 | 3.9 | 17 | 12.7 | 1.49 | 5 | 0.03 | 0.04 | 8 | 0.33 | 108 | 0.3 |
| 1161404 | Soil | 2.5 | 0.2 | 0.96 | 3.0 | <1 | 199 | 0.1 | 0.08 | <0.1 | 3.9 | 16 | 27.0 | 1.27 | 4 | 0.06 | 0.04 | 18 | 0.17 | 85 | 0.8 |
| 1161414 | Soil | 1.8 | <0.1 | 1.84 | 6.1 | 2 | 189 | <0.1 | 0.25 | 0.2 | 17.1 | 26 | 21.0 | 3.42 | 7 | 0.04 | 0.19 | 8 | 0.85 | 651 | 1.2 |
| 1161411 | Soil | 1.0 | 0.1 | 1.42 | 12.5 | <1 | 238 | 0.2 | 0.21 | <0.1 | 6.4 | 20 | 13.7 | 2.76 | 8 | 0.02 | 0.17 | 10 | 0.44 | 397 | 1.4 |
| 1161410 | Soil | 9.7 | <0.1 | 1.94 | 8.0 | <1 | 271 | <0.1 | 0.23 | <0.1 | 7.2 | 24 | 18.8 | 3.38 | 7 | 0.01 | 0.28 | 9 | 0.78 | 331 | 1.3 |
| 1161408 | Soil | 3.1 | <0.1 | 1.40 | 5.0 | 1 | 163 | 0.1 | 0.25 | 0.1 | 5.9 | 20 | 13.8 | 2.13 | 5 | 0.04 | 0.07 | 11 | 0.47 | 173 | 0.7 |
| 1161403 | Soil | 1.3 | <0.1 | 0.67 | 3.2 | 3 | 112 | 0.2 | 0.07 | 0.2 | 2.8 | 11 | 13.2 | 1.29 | 4 | 0.03 | 0.04 | 5 | 0.18 | 109 | 0.8 |
| 1161402 | Soil | 5.5 | <0.1 | 2.13 | 8.9 | 3 | 348 | 0.2 | 0.31 | <0.1 | 12.6 | 36 | 28.7 | 3.39 | 6 | 0.05 | 0.08 | 16 | 0.69 | 533 | 0.9 |
| 1161399 | Soil | 1.7 | <0.1 | 1.61 | 3.1 | 3 | 170 | 0.1 | 0.24 | <0.1 | 9.1 | 19 | 25.2 | 2.95 | 6 | 0.05 | 0.37 | 6 | 0.99 | 246 | 0.9 |
| 1161401 | Soil | <0.5 | <0.1 | 1.99 | 15.3 | 2 | 217 | 0.2 | 0.21 | 0.1 | 11.3 | 25 | 34.2 | 3.92 | 7 | 0.02 | 0.20 | 6 | 0.63 | 514 | 0.8 |
| 1161412 | Soil | 4.8 | 0.1 | 1.76 | 43.0 | 2 | 420 | 0.1 | 0.27 | 0.1 | 8.6 | 14 | 31.3 | 3.33 | 7 | 0.03 | 0.48 | 23 | 0.90 | 722 | 1.4 |
| 1161409 | Soil | 2.8 | <0.1 | 1.44 | 3.9 | 1 | 200 | 0.2 | 0.15 | <0.1 | 5.4 | 17 | 18.5 | 2.25 | 6 | 0.05 | 0.12 | 14 | 0.49 | 227 | 1.1 |
| 1161406 | Soil | 1.8 | 0.3 | 1.20 | 4.0 | 2 | 125 | 0.2 | 0.13 | 0.2 | 4.8 | 19 | 16.5 | 1.99 | 5 | 0.06 | 0.06 | 13 | 0.39 | 176 | 1.0 |
| 1161400 | Soil | 10.9 | 0.1 | 1.85 | 4.4 | 2 | 368 | 0.1 | 0.44 | 0.2 | 21.2 | 24 | 42.7 | 4.35 | 6 | 0.09 | 0.37 | 13 | 0.92 | 1358 | 1.4 |
| 1161374 | Soil | 1.4 | <0.1 | 1.18 | 6.4 | 2 | 114 | 0.2 | 0.11 | 0.2 | 5.0 | 16 | 12.1 | 2.21 | 7 | 0.02 | 0.10 | 6 | 0.35 | 253 | 1.0 |
| 1161385 | Soil | 2.2 | <0.1 | 1.74 | 7.4 | 2 | 242 | 0.2 | 0.32 | 0.4 | 9.9 | 28 | 27.2 | 2.95 | 6 | 0.03 | 0.11 | 12 | 0.63 | 374 | 0.9 |
| 1161383 | Soil | 6.8 | <0.1 | 1.88 | 6.5 | <1 | 305 | 0.2 | 0.36 | 0.1 | 9.4 | 27 | 17.9 | 3.25 | 7 | 0.03 | 0.18 | 13 | 0.72 | 446 | 1.1 |
| 1161384 | Soil | 3.9 | <0.1 | 1.91 | 5.5 | 2 | 255 | 0.1 | 0.39 | 0.2 | 11.0 | 26 | 17.5 | 3.42 | 7 | 0.03 | 0.15 | 12 | 0.76 | 492 | 1.0 |
| 1161380 | Soil | 30.8 | 0.1 | 2.17 | 6.2 | 2 | 455 | 0.2 | 0.35 | <0.1 | 9.0 | 21 | 31.2 | 3.84 | 8 | 0.03 | 0.24 | 24 | 0.97 | 701 | 1.1 |
| 1161382 | Soil | 77.6 | 0.1 | 2.13 | 6.0 | 2 | 364 | 0.2 | 0.29 | <0.1 | 14.8 | 19 | 24.8 | 5.32 | 8 | 0.05 | 0.51 | 17 | 0.83 | 828 | 1.3 |
| 1161379 | Soil | 23.1 | 0.1 | 1.81 | 15.7 | 1 | 322 | 0.2 | 0.30 | 0.2 | 10.2 | 23 | 23.3 | 3.27 | 6 | 0.04 | 0.12 | 15 | 0.66 | 488 | 1.4 |
| 1161381 | Soil | 40.0 | <0.1 | 2.10 | 6.4 | 2 | 488 | 0.2 | 0.35 | <0.1 | 9.1 | 22 | 30.8 | 3.87 | 9 | 0.03 | 0.23 | 24 | 0.94 | 687 | 1.1 |
| 1161378 | Soil | 10.5 | 0.1 | 1.83 | 7.0 | 1 | 248 | 0.2 | 0.29 | 0.2 | 9.7 | 28 | 20.9 | 2.87 | 6 | 0.06 | 0.06 | 12 | 0.55 | 287 | 0.8 |
| 1161373 | Soil | 2.7 | 0.1 | 1.78 | 5.8 | 2 | 245 | 0.2 | 0.25 | 0.1 | 8.2 | 25 | 22.1 | 2.78 | 6 | 0.03 | 0.09 | 11 | 0.55 | 279 | 0.7 |

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Project: TSL
Report Date: August 21, 2011



# CERTIFICATE OF ANALYSIS DAW11000134.1

| | 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 |
| 1161416 | Soil | 0.035 | 19.1 | 0.062 | 9.4 | 0.18 | 0.3 | 8.4 | 1.1 | 28 | <0.2 | 1.9 | 0.087 | <0.1 | 0.7 | 99 | <0.1 | 188 |
| 1161419 | Soil | 0.019 | 20.5 | 0.046 | 5.7 | <0.05 | 0.2 | 3.9 | <0.5 | 21 | <0.2 | 2.0 | 0.117 | <0.1 | 0.5 | 76 | <0.1 | 61 |
| 1161417 | Soil | 0.016 | 13.0 | 0.213 | 3.9 | <0.05 | <0.1 | 16.9 | 1.1 | 16 | <0.2 | 1.1 | 0.271 | 0.2 | 0.5 | 242 | <0.1 | 400 |
| 1161420 | Soil | 0.017 | 22.1 | 0.042 | 5.6 | <0.05 | 0.2 | 3.2 | <0.5 | 23 | <0.2 | 2.2 | 0.129 | <0.1 | 0.4 | 72 | <0.1 | 50 |
| 1161405 | Soil | 0.011 | 15.4 | 0.052 | 12.5 | <0.05 | 0.2 | 6.3 | <0.5 | 20 | <0.2 | 3.1 | 0.062 | <0.1 | 1.3 | 49 | 0.2 | 79 |
| 1161421 | Soil | 0.018 | 24.0 | 0.028 | 6.2 | <0.05 | 0.3 | 5.0 | 0.6 | 22 | <0.2 | 2.0 | 0.153 | 0.2 | 0.4 | 103 | <0.1 | 64 |
| 1161407 | Soil | 0.011 | 9.1 | 0.033 | 6.1 | <0.05 | 0.1 | 2.4 | <0.5 | 13 | <0.2 | 1.3 | 0.060 | 0.1 | 0.5 | 29 | <0.1 | 44 |
| 1161404 | Soil | 0.013 | 8.4 | 0.038 | 9.2 | <0.05 | 0.2 | 2.2 | <0.5 | 10 | <0.2 | 0.7 | 0.042 | <0.1 | 1.0 | 31 | 0.1 | 30 |
| 1161414 | Soil | 0.013 | 15.3 | 0.053 | 9.6 | <0.05 | 0.3 | 4.2 | 0.5 | 16 | <0.2 | 2.9 | 0.109 | 0.1 | 0.5 | 83 | <0.1 | 87 |
| 1161411 | Soil | 0.010 | 10.8 | 0.054 | 19.9 | <0.05 | 0.4 | 3.2 | <0.5 | 16 | <0.2 | 2.5 | 0.111 | 0.1 | 0.6 | 61 | 0.1 | 76 |
| 1161410 | Soil | 0.009 | 12.2 | 0.029 | 11.0 | <0.05 | 0.2 | 5.8 | 0.7 | 14 | <0.2 | 3.0 | 0.111 | 0.1 | 0.4 | 47 | <0.1 | 116 |
| 1161408 | Soil | 0.013 | 12.2 | 0.044 | 8.4 | <0.05 | 0.2 | 3.0 | 0.7 | 17 | <0.2 | 2.0 | 0.080 | <0.1 | 0.6 | 42 | 0.2 | 65 |
| 1161403 | Soil | 0.011 | 6.1 | 0.043 | 9.0 | <0.05 | 0.2 | 1.1 | <0.5 | 9 | <0.2 | 0.5 | 0.057 | <0.1 | 0.3 | 33 | <0.1 | 29 |
| 1161402 | Soil | 0.018 | 22.5 | 0.029 | 17.7 | <0.05 | 0.4 | 6.0 | <0.5 | 21 | <0.2 | 4.4 | 0.112 | <0.1 | 0.8 | 73 | 0.1 | 78 |
| 1161399 | Soil | 0.014 | 9.9 | 0.073 | 5.1 | <0.05 | 0.2 | 4.4 | 0.6 | 15 | <0.2 | 1.3 | 0.117 | 0.1 | 0.3 | 81 | <0.1 | 75 |
| 1161401 | Soil | 0.020 | 16.7 | 0.025 | 38.8 | <0.05 | 0.6 | 5.8 | <0.5 | 17 | <0.2 | 3.2 | 0.121 | 0.1 | 0.5 | 68 | <0.1 | 101 |
| 1161412 | Soil | 0.010 | 9.0 | 0.052 | 11.4 | <0.05 | 2.8 | 4.0 | <0.5 | 18 | <0.2 | 4.6 | 0.137 | 0.4 | 1.2 | 50 | <0.1 | 184 |
| 1161409 | Soil | 0.013 | 9.8 | 0.035 | 11.8 | <0.05 | 0.2 | 2.9 | 0.7 | 15 | <0.2 | 2.2 | 0.096 | <0.1 | 0.7 | 43 | 0.1 | 59 |
| 1161406 | Soil | 0.011 | 8.9 | 0.055 | 24.1 | <0.05 | 0.2 | 2.3 | <0.5 | 14 | <0.2 | 1.3 | 0.061 | <0.1 | 0.9 | 39 | 0.1 | 59 |
| 1161400 | Soil | 0.013 | 15.8 | 0.059 | 8.9 | <0.05 | 0.7 | 10.7 | 0.8 | 18 | <0.2 | 3.6 | 0.096 | 0.2 | 0.8 | 97 | <0.1 | 113 |
| 1161374 | Soil | 0.011 | 8.1 | 0.041 | 13.3 | <0.05 | 0.3 | 2.0 | <0.5 | 11 | <0.2 | 1.2 | 0.095 | <0.1 | 0.3 | 56 | <0.1 | 64 |
| 1161385 | Soil | 0.019 | 18.4 | 0.053 | 12.0 | <0.05 | 0.4 | 4.0 | <0.5 | 25 | <0.2 | 2.7 | 0.101 | <0.1 | 0.9 | 59 | 0.1 | 117 |
| 1161383 | Soil | 0.020 | 16.2 | 0.037 | 34.6 | <0.05 | 0.4 | 3.6 | <0.5 | 26 | <0.2 | 3.4 | 0.128 | <0.1 | 0.6 | 60 | 0.1 | 105 |
| 1161384 | Soil | 0.024 | 16.8 | 0.051 | 11.9 | <0.05 | 0.3 | 3.8 | 0.6 | 29 | <0.2 | 3.1 | 0.119 | <0.1 | 0.5 | 62 | <0.1 | 89 |
| 1161380 | Soil | 0.015 | 14.3 | 0.030 | 30.9 | <0.05 | 0.3 | 7.6 | <0.5 | 24 | <0.2 | 5.0 | 0.117 | 0.1 | 1.1 | 48 | <0.1 | 118 |
| 1161382 | Soil | 0.029 | 15.2 | 0.030 | 37.5 | <0.05 | 0.2 | 10.0 | <0.5 | 25 | 0.3 | 5.4 | 0.165 | 0.2 | 0.9 | 55 | <0.1 | 137 |
| 1161379 | Soil | 0.028 | 15.0 | 0.046 | 27.5 | <0.05 | 0.9 | 3.9 | <0.5 | 23 | <0.2 | 3.6 | 0.110 | 0.1 | 0.8 | 56 | 0.1 | 168 |
| 1161381 | Soil | 0.015 | 14.7 | 0.029 | 29.5 | <0.05 | 0.3 | 7.3 | 1.0 | 25 | <0.2 | 5.4 | 0.116 | 0.1 | 1.1 | 48 | 0.1 | 118 |
| 1161378 | Soil | 0.016 | 19.0 | 0.046 | 18.2 | <0.05 | 0.4 | 4.2 | <0.5 | 23 | <0.2 | 2.9 | 0.085 | <0.1 | 0.8 | 58 | 0.1 | 88 |
| 1161373 | Soil | 0.013 | 15.0 | 0.043 | 31.5 | <0.05 | 0.3 | 3.3 | 0.7 | 24 | <0.2 | 2.6 | 0.104 | <0.1 | 0.8 | 53 | 0.1 | 85 |

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Project: TSL
Report Date: August 21, 2011



# CERTIFICATE OF ANALYSIS DAW11000134.1

| | 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 |
| 1161390 | Soil | 1.3 | 0.1 | 2.56 | 4.4 | <1 | 433 | 0.2 | 0.28 | 0.1 | 8.8 | 22 | 68.7 | 4.52 | 10 | 0.02 | 0.58 | 12 | 1.20 | 522 | 1.5 |
| 1161387 | Soil | 2.8 | <0.1 | 1.33 | 7.2 | 2 | 134 | 0.1 | 0.32 | 0.1 | 10.0 | 25 | 13.4 | 2.40 | 5 | 0.03 | 0.06 | 8 | 0.55 | 627 | 0.9 |
| 1161388 | Soil | 7.9 | 0.1 | 1.78 | 11.5 | 1 | 195 | 0.2 | 0.22 | 0.2 | 8.6 | 26 | 14.6 | 3.39 | 7 | 0.04 | 0.11 | 7 | 0.57 | 344 | 1.1 |
| 1161376 | Soil | 2.6 | <0.1 | 1.42 | 3.9 | 2 | 172 | 0.2 | 0.26 | 0.3 | 5.6 | 22 | 15.3 | 1.88 | 5 | 0.04 | 0.06 | 10 | 0.51 | 230 | 0.6 |
| 1161377 | Soil | 2.5 | <0.1 | 1.46 | 7.2 | 2 | 123 | 0.1 | 0.22 | 0.1 | 9.1 | 25 | 13.3 | 2.61 | 6 | 0.04 | 0.05 | 8 | 0.50 | 403 | 0.8 |
| 1161386 | Soil | 2.3 | <0.1 | 1.52 | 6.8 | 2 | 172 | 0.1 | 0.30 | 0.2 | 9.6 | 26 | 17.4 | 2.54 | 5 | 0.03 | 0.05 | 11 | 0.54 | 391 | 0.8 |
| 1160751 | Soil | 4.4 | 0.1 | 1.70 | 6.0 | 2 | 252 | 0.1 | 0.33 | 0.3 | 9.5 | 27 | 21.9 | 2.62 | 6 | 0.03 | 0.09 | 10 | 0.59 | 392 | 0.9 |
| 1161389 | Soil | 2.0 | <0.1 | 1.76 | 6.6 | 1 | 170 | 0.2 | 0.21 | 0.2 | 7.5 | 26 | 18.0 | 2.64 | 6 | 0.03 | 0.06 | 10 | 0.49 | 230 | 0.9 |
| 1160600 | Soil | 8.6 | 0.1 | 1.69 | 7.5 | 2 | 266 | 0.2 | 0.56 | 0.2 | 11.1 | 31 | 29.2 | 2.73 | 5 | 0.03 | 0.06 | 12 | 0.63 | 393 | 0.8 |
| 1160599 | Soil | 11.9 | 0.1 | 1.68 | 7.6 | 3 | 267 | 0.2 | 0.54 | 0.2 | 10.7 | 31 | 29.9 | 2.74 | 5 | 0.03 | 0.06 | 12 | 0.62 | 373 | 0.9 |
| 1161391 | Soil | 3.1 | <0.1 | 1.55 | 5.2 | 2 | 238 | 0.1 | 0.51 | 0.2 | 9.4 | 27 | 22.5 | 2.29 | 5 | 0.04 | 0.06 | 11 | 0.57 | 266 | 0.6 |
| 1161366 | Soil | 10.8 | 0.2 | 1.88 | 5.4 | 2 | 178 | 0.3 | 0.17 | 0.1 | 9.3 | 28 | 26.3 | 3.17 | 8 | 0.04 | 0.08 | 11 | 0.49 | 369 | 1.5 |
| 1161368 | Soil | 0.9 | <0.1 | 1.76 | 5.4 | 2 | 357 | 0.2 | 0.30 | 0.4 | 7.0 | 20 | 14.6 | 3.29 | 9 | 0.01 | 0.35 | 8 | 0.60 | 520 | 1.3 |
| 1161367 | Soil | 23.0 | 0.2 | 1.40 | 3.6 | 3 | 452 | 0.2 | 0.64 | 0.2 | 8.7 | 21 | 15.2 | 2.08 | 5 | 0.07 | 0.09 | 13 | 0.51 | 487 | 1.2 |
| 1161362 | Soil | <0.5 | 0.1 | 2.69 | <0.5 | 2 | 348 | 0.3 | 0.16 | <0.1 | 22.3 | 25 | 105.5 | 7.90 | 11 | 0.01 | 1.80 | 13 | 1.83 | 882 | 2.2 |
| 1161372 | Soil | 6.1 | 0.1 | 1.37 | 7.0 | 3 | 144 | 0.2 | 0.19 | 0.1 | 5.8 | 21 | 20.3 | 2.88 | 5 | 0.05 | 0.05 | 8 | 0.36 | 199 | 0.8 |
| 1161370 | Soil | 6.7 | 0.3 | 1.43 | 6.5 | <1 | 204 | 0.2 | 0.16 | 0.1 | 4.7 | 20 | 29.5 | 2.44 | 6 | 0.04 | 0.10 | 11 | 0.41 | 162 | 1.2 |
| 1161364 | Soil | 2.7 | 0.1 | 1.49 | 2.0 | 5 | 632 | <0.1 | 0.49 | 0.1 | 39.3 | 11 | 71.9 | 10.08 | 7 | 0.20 | 0.38 | 27 | 0.63 | 1769 | 0.5 |
| 1161369 | Soil | 19.3 | 0.3 | 1.63 | 7.0 | 2 | 239 | 0.2 | 0.22 | 0.3 | 6.8 | 21 | 35.4 | 3.15 | 6 | 0.02 | 0.15 | 12 | 0.57 | 281 | 1.5 |
| 1161371 | Soil | 14.1 | 0.4 | 1.71 | 6.8 | 2 | 184 | 0.2 | 0.19 | 0.2 | 7.4 | 26 | 28.5 | 2.75 | 6 | 0.07 | 0.08 | 13 | 0.44 | 249 | 1.1 |
| 1161363 | Soil | 3.2 | <0.1 | 2.33 | 6.0 | 3 | 308 | 0.1 | 0.28 | 0.1 | 15.7 | 32 | 40.5 | 3.83 | 7 | 0.03 | 0.24 | 8 | 1.06 | 439 | 1.2 |
| 1161375 | Soil | 4.0 | <0.1 | 2.33 | 8.7 | 3 | 218 | 0.2 | 0.17 | 0.5 | 8.7 | 32 | 22.4 | 3.62 | 8 | 0.02 | 0.11 | 11 | 0.59 | 281 | 1.3 |
| 1161365 | Soil | 19.5 | 0.2 | 1.91 | 4.3 | 4 | 627 | 0.2 | 0.17 | 0.2 | 4.6 | 22 | 34.9 | 2.11 | 5 | 0.08 | 0.08 | 59 | 0.16 | 253 | 1.2 |

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Report Date: August 21, 2011



# CERTIFICATE OF ANALYSIS DAW11000134.1

| | | 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 |
| 1161390 | Soil | | 0.054 | 12.0 | 0.042 | 32.5 | 0.39 | 0.2 | 7.1 | 0.6 | 49 | <0.2 | 2.9 | 0.154 | 0.2 | 0.9 | 57 | <0.1 | 165 |
| 1161387 | Soil | | 0.018 | 14.5 | 0.054 | 17.6 | <0.05 | 0.3 | 2.5 | <0.5 | 22 | <0.2 | 2.2 | 0.085 | <0.1 | 0.5 | 64 | 0.2 | 65 |
| 1161388 | Soil | | 0.011 | 13.4 | 0.047 | 21.6 | <0.05 | 0.4 | 2.9 | 0.5 | 20 | <0.2 | 2.0 | 0.109 | <0.1 | 0.4 | 66 | 0.1 | 92 |
| 1161376 | Soil | | 0.015 | 13.1 | 0.044 | 12.8 | <0.05 | 0.3 | 2.8 | <0.5 | 22 | <0.2 | 1.6 | 0.079 | <0.1 | 0.6 | 41 | 0.1 | 109 |
| 1161377 | Soil | | 0.013 | 13.5 | 0.046 | 10.2 | <0.05 | 0.4 | 2.5 | <0.5 | 18 | <0.2 | 1.5 | 0.074 | <0.1 | 0.5 | 70 | 0.2 | 60 |
| 1161386 | Soil | | 0.018 | 16.8 | 0.051 | 8.8 | <0.05 | 0.4 | 2.8 | <0.5 | 23 | <0.2 | 2.3 | 0.077 | <0.1 | 0.6 | 57 | 0.2 | 68 |
| 1160751 | Soil | | 0.018 | 16.8 | 0.050 | 8.9 | <0.05 | 0.4 | 3.3 | <0.5 | 27 | <0.2 | 2.4 | 0.097 | <0.1 | 0.7 | 57 | 0.1 | 81 |
| 1161389 | Soil | | 0.013 | 14.3 | 0.042 | 18.2 | <0.05 | 0.3 | 2.9 | <0.5 | 18 | <0.2 | 2.6 | 0.092 | <0.1 | 0.7 | 56 | 0.1 | 63 |
| 1160600 | Soil | | 0.035 | 23.5 | 0.063 | 10.0 | <0.05 | 0.6 | 3.7 | 0.8 | 40 | <0.2 | 3.2 | 0.103 | <0.1 | 0.9 | 62 | 0.2 | 66 |
| 1160599 | Soil | | 0.032 | 24.4 | 0.061 | 10.1 | <0.05 | 0.5 | 3.8 | <0.5 | 39 | <0.2 | 3.3 | 0.102 | <0.1 | 0.9 | 63 | 0.2 | 65 |
| 1161391 | Soil | | 0.025 | 21.4 | 0.061 | 9.1 | <0.05 | 0.4 | 3.3 | <0.5 | 34 | <0.2 | 2.5 | 0.083 | <0.1 | 0.7 | 56 | 0.1 | 65 |
| 1161366 | Soil | | 0.013 | 17.0 | 0.043 | 47.3 | <0.05 | 0.4 | 4.2 | <0.5 | 14 | <0.2 | 3.0 | 0.099 | <0.1 | 0.8 | 69 | 0.1 | 80 |
| 1161368 | Soil | | 0.012 | 10.9 | 0.029 | 21.9 | <0.05 | 0.3 | 3.2 | <0.5 | 28 | <0.2 | 1.9 | 0.130 | 0.1 | 0.4 | 55 | <0.1 | 103 |
| 1161367 | Soil | | 0.017 | 12.8 | 0.058 | 25.5 | <0.05 | 0.2 | 4.0 | 0.6 | 40 | <0.2 | 1.9 | 0.072 | <0.1 | 0.9 | 40 | 0.1 | 84 |
| 1161362 | Soil | | 0.050 | 11.4 | 0.092 | 7.3 | 0.82 | <0.1 | 15.5 | 5.6 | 29 | 0.8 | 3.3 | 0.225 | 0.4 | 0.6 | 160 | <0.1 | 152 |
| 1161372 | Soil | | 0.012 | 10.7 | 0.048 | 12.3 | <0.05 | 0.3 | 2.3 | 0.7 | 17 | <0.2 | 1.4 | 0.064 | <0.1 | 0.8 | 48 | 0.1 | 52 |
| 1161370 | Soil | | 0.016 | 10.4 | 0.033 | 16.1 | <0.05 | 0.2 | 2.7 | <0.5 | 19 | <0.2 | 1.9 | 0.084 | <0.1 | 0.7 | 43 | 0.1 | 53 |
| 1161364 | Soil | | 0.016 | 15.8 | 0.091 | 7.1 | <0.05 | 0.3 | 29.3 | <0.5 | 19 | <0.2 | 3.4 | 0.067 | 0.1 | 0.9 | 220 | <0.1 | 156 |
| 1161369 | Soil | | 0.034 | 11.4 | 0.027 | 32.3 | 0.15 | 0.3 | 3.9 | <0.5 | 21 | <0.2 | 3.0 | 0.103 | <0.1 | 0.7 | 49 | <0.1 | 120 |
| 1161371 | Soil | | 0.013 | 14.1 | 0.046 | 31.9 | <0.05 | 0.3 | 3.6 | 0.8 | 17 | 0.2 | 1.8 | 0.084 | <0.1 | 1.0 | 53 | <0.1 | 76 |
| 1161363 | Soil | | 0.022 | 18.0 | 0.037 | 10.7 | <0.05 | 0.4 | 6.4 | 0.5 | 22 | <0.2 | 3.1 | 0.140 | 0.1 | 0.5 | 93 | <0.1 | 90 |
| 1161375 | Soil | | 0.014 | 16.9 | 0.024 | 17.8 | <0.05 | 0.4 | 4.5 | <0.5 | 18 | <0.2 | 2.7 | 0.125 | 0.1 | 0.6 | 74 | <0.1 | 106 |
| 1161365 | Soil | | 0.017 | 11.5 | 0.049 | 39.3 | <0.05 | 0.3 | 6.5 | 0.8 | 20 | <0.2 | 1.5 | 0.035 | <0.1 | 1.5 | 37 | <0.1 | 40 |

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Project: TSL
Report Date: August 21, 2011



# QUALITY CONTROL REPORT DAW11000134.1

| | 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 | | | | | | | | | | | | | | | | | | | | | |
| 1161441 | Soil | 1.4 | 0.2 | 1.99 | 73.8 | 1 | 434 | <0.1 | 0.37 | <0.1 | 19.7 | 26 | 87.0 | 4.19 | 7 | 0.03 | 0.63 | 4 | 1.06 | 400 | 0.8 |
| REP 1161441 | QC | 1.4 | 0.1 | 2.13 | 75.5 | <1 | 446 | <0.1 | 0.40 | <0.1 | 19.7 | 26 | 90.9 | 4.23 | 7 | 0.03 | 0.64 | 4 | 1.08 | 406 | 1.0 |
| 1160516 | Soil | 2.4 | <0.1 | 1.94 | 5.0 | 2 | 219 | 0.1 | 0.40 | <0.1 | 11.0 | 36 | 32.6 | 2.46 | 6 | 0.02 | 0.07 | 10 | 0.84 | 305 | 0.7 |
| REP 1160516 | QC | 3.7 | <0.1 | 1.94 | 4.6 | 1 | 212 | 0.1 | 0.40 | <0.1 | 11.4 | 35 | 33.1 | 2.46 | 6 | 0.03 | 0.07 | 10 | 0.84 | 301 | 0.7 |
| 1160519 | Soil | 1.1 | <0.1 | 2.39 | 6.7 | <1 | 190 | <0.1 | 0.23 | 0.1 | 14.6 | 39 | 36.6 | 3.63 | 7 | 0.02 | 0.25 | 7 | 1.14 | 387 | 1.0 |
| REP 1160519 | QC | 4.6 | <0.1 | 2.31 | 6.2 | 1 | 182 | 0.1 | 0.22 | <0.1 | 14.2 | 38 | 38.1 | 3.58 | 7 | 0.02 | 0.25 | 7 | 1.12 | 369 | 1.2 |
| 1161404 | Soil | 2.5 | 0.2 | 0.96 | 3.0 | <1 | 199 | 0.1 | 0.08 | <0.1 | 3.9 | 16 | 27.0 | 1.27 | 4 | 0.06 | 0.04 | 18 | 0.17 | 85 | 0.8 |
| REP 1161404 | QC | 2.3 | 0.2 | 0.93 | 3.2 | 1 | 196 | 0.1 | 0.08 | 0.1 | 3.7 | 17 | 25.7 | 1.28 | 4 | 0.05 | 0.04 | 17 | 0.17 | 90 | 0.8 |
| 1161380 | Soil | 30.8 | 0.1 | 2.17 | 6.2 | 2 | 455 | 0.2 | 0.35 | <0.1 | 9.0 | 21 | 31.2 | 3.84 | 8 | 0.03 | 0.24 | 24 | 0.97 | 701 | 1.1 |
| REP 1161380 | QC | 36.4 | <0.1 | 2.16 | 6.2 | 1 | 477 | 0.2 | 0.36 | <0.1 | 9.3 | 22 | 30.9 | 4.03 | 9 | 0.03 | 0.24 | 24 | 0.96 | 706 | 1.2 |
| 1160600 | Soil | 8.6 | 0.1 | 1.69 | 7.5 | 2 | 266 | 0.2 | 0.56 | 0.2 | 11.1 | 31 | 29.2 | 2.73 | 5 | 0.03 | 0.06 | 12 | 0.63 | 393 | 0.8 |
| REP 1160600 | QC | 11.6 | 0.1 | 1.72 | 7.5 | 3 | 268 | 0.2 | 0.55 | 0.2 | 11.5 | 31 | 30.2 | 2.81 | 5 | 0.03 | 0.07 | 12 | 0.64 | 396 | 0.9 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS8 | Standard | 115.6 | 1.8 | 1.01 | 26.6 | 4 | 295 | 6.8 | 0.74 | 2.1 | 7.9 | 126 | 118.4 | 2.62 | 5 | 0.21 | 0.47 | 17 | 0.64 | 653 | 14.9 |
| STD DS8 | Standard | 111.6 | 1.7 | 0.93 | 23.7 | 2 | 262 | 6.8 | 0.69 | 2.1 | 7.6 | 118 | 104.8 | 2.35 | 5 | 0.18 | 0.43 | 14 | 0.65 | 603 | 12.5 |
| STD DS8 | Standard | 108.6 | 1.9 | 0.96 | 25.8 | 2 | 278 | 6.2 | 0.71 | 2.4 | 7.9 | 123 | 113.5 | 2.53 | 5 | 0.18 | 0.45 | 14 | 0.61 | 632 | 13.7 |
| STD DS8 | Standard | 113.7 | 2.0 | 0.93 | 26.1 | 4 | 302 | 7.0 | 0.72 | 2.1 | 7.4 | 120 | 111.0 | 2.54 | 5 | 0.22 | 0.45 | 15 | 0.62 | 640 | 14.0 |
| 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 |
| 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
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# QUALITY CONTROL REPORT DAW11000134.1

| | 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 | | | | | | | | | | | | | | | | | | |
| 1161441 | Soil | 0.021 | 17.4 | 0.069 | 4.0 | <0.05 | 3.8 | 5.4 | <0.5 | 25 | <0.2 | 1.2 | 0.152 | 2.4 | 0.4 | 148 | <0.1 | 75 |
| REP 1161441 | QC | 0.020 | 17.4 | 0.076 | 3.9 | <0.05 | 4.2 | 5.8 | <0.5 | 26 | <0.2 | 1.2 | 0.153 | 2.4 | 0.4 | 142 | <0.1 | 77 |
| 1160516 | Soil | 0.022 | 20.9 | 0.052 | 7.0 | <0.05 | 0.3 | 4.1 | <0.5 | 25 | <0.2 | 2.3 | 0.101 | <0.1 | 0.6 | 69 | 0.1 | 50 |
| REP 1160516 | QC | 0.020 | 20.9 | 0.052 | 6.9 | <0.05 | 0.3 | 4.0 | <0.5 | 26 | <0.2 | 2.5 | 0.102 | <0.1 | 0.6 | 68 | 0.1 | 52 |
| 1160519 | Soil | 0.013 | 21.4 | 0.043 | 7.2 | <0.05 | 0.3 | 3.7 | <0.5 | 14 | <0.2 | 2.1 | 0.166 | <0.1 | 0.5 | 97 | 0.1 | 62 |
| REP 1160519 | QC | 0.012 | 19.9 | 0.041 | 7.2 | <0.05 | 0.2 | 3.7 | <0.5 | 15 | <0.2 | 2.1 | 0.158 | <0.1 | 0.5 | 93 | 0.1 | 61 |
| 1161404 | Soil | 0.013 | 8.4 | 0.038 | 9.2 | <0.05 | 0.2 | 2.2 | <0.5 | 10 | <0.2 | 0.7 | 0.042 | <0.1 | 1.0 | 31 | 0.1 | 30 |
| REP 1161404 | QC | 0.012 | 8.4 | 0.035 | 8.8 | <0.05 | 0.2 | 2.3 | <0.5 | 10 | <0.2 | 0.7 | 0.042 | <0.1 | 0.9 | 32 | <0.1 | 29 |
| 1161380 | Soil | 0.015 | 14.3 | 0.030 | 30.9 | <0.05 | 0.3 | 7.6 | <0.5 | 24 | <0.2 | 5.0 | 0.117 | 0.1 | 1.1 | 48 | <0.1 | 118 |
| REP 1161380 | QC | 0.015 | 14.9 | 0.029 | 31.6 | <0.05 | 0.3 | 7.5 | <0.5 | 25 | <0.2 | 5.2 | 0.121 | <0.1 | 1.1 | 49 | <0.1 | 119 |
| 1160600 | Soil | 0.035 | 23.5 | 0.063 | 10.0 | <0.05 | 0.6 | 3.7 | 0.8 | 40 | <0.2 | 3.2 | 0.103 | <0.1 | 0.9 | 62 | 0.2 | 66 |
| REP 1160600 | QC | 0.033 | 23.9 | 0.062 | 10.0 | <0.05 | 0.6 | 3.9 | <0.5 | 40 | <0.2 | 3.3 | 0.104 | <0.1 | 0.9 | 62 | 0.2 | 69 |
| Reference Materials | | | | | | | | | | | | | | | | | | |
| STD DS8 | Standard | 0.117 | 40.7 | 0.081 | 127.7 | 0.14 | 6.3 | 4.0 | 5.8 | 77 | 5.1 | 8.0 | 0.139 | 5.7 | 3.2 | 46 | 3.2 | 322 |
| STD DS8 | Standard | 0.097 | 38.9 | 0.078 | 121.5 | 0.16 | 5.9 | 2.4 | 5.5 | 68 | 5.0 | 6.6 | 0.114 | 5.2 | 2.6 | 42 | 2.8 | 308 |
| STD DS8 | Standard | 0.108 | 39.9 | 0.083 | 125.2 | 0.13 | 4.9 | 3.1 | 5.1 | 66 | 4.7 | 7.2 | 0.118 | 5.6 | 2.8 | 43 | 2.9 | 313 |
| STD DS8 | Standard | 0.093 | 38.5 | 0.081 | 134.8 | 0.14 | 6.3 | 2.4 | 5.1 | 76 | 5.2 | 7.3 | 0.129 | 5.6 | 3.0 | 43 | 3.1 | 318 |
| 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 |
| 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.