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 04, 2011
Report Date: September 03, 2011
Page: 1 of 6

# CERTIFICATE OF ANALYSIS DAW11000152.1

## CLIENT JOB INFORMATION

Project: TSL
Shipment ID: TSL2011-05
P.O. Number
Number of Samples: 143

## 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 | 143 | Dry at 60C sieve 100g to -80 mesh | | | WHI |
| Dry at 60C | 143 | Dry at 60C | | | WHI |
| 1DX2 | 142 | 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: September 03, 2011



# CERTIFICATE OF ANALYSIS DAW11000152.1

| | 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 |
| 1167876 | Soil | 9.8 | 0.3 | 2.13 | 3.0 | 1 | 244 | 0.1 | 0.37 | 0.2 | 12.2 | 39 | 55.4 | 2.94 | 7 | 0.05 | 0.32 | 8 | 1.27 | 321 | 0.5 |
| 1167872 | Soil | 1.2 | 0.2 | 1.15 | 0.9 | 1 | 139 | <0.1 | 0.22 | <0.1 | 5.5 | 24 | 34.6 | 1.44 | 4 | 0.05 | 0.17 | 4 | 0.60 | 132 | 0.3 |
| 1167877 | Soil | 9.8 | 0.2 | 1.91 | 5.7 | 2 | 238 | 0.1 | 0.41 | 0.1 | 11.2 | 37 | 45.1 | 2.85 | 6 | 0.03 | 0.07 | 8 | 0.81 | 283 | 0.8 |
| 1167874 | Soil | 1.0 | <0.1 | 2.76 | 0.8 | <1 | 319 | <0.1 | 0.37 | <0.1 | 34.7 | 51 | 75.8 | 3.93 | 7 | 0.01 | 0.87 | 5 | 2.01 | 447 | 0.8 |
| 1167879 | Soil | 5.6 | 0.1 | 1.72 | 4.8 | 1 | 183 | 0.1 | 0.35 | 0.1 | 12.3 | 31 | 31.2 | 2.70 | 6 | 0.03 | 0.06 | 7 | 0.83 | 358 | 0.6 |
| 1167878 | Soil | 3.3 | <0.1 | 1.85 | 4.3 | <1 | 164 | <0.1 | 0.40 | <0.1 | 13.4 | 31 | 33.2 | 2.74 | 5 | 0.01 | 0.08 | 7 | 1.04 | 318 | 0.5 |
| 1167875 | Soil | 11.8 | 0.1 | 2.14 | 4.6 | 2 | 167 | <0.1 | 0.23 | <0.1 | 11.8 | 38 | 42.7 | 3.24 | 6 | 0.03 | 0.19 | 7 | 1.00 | 297 | 0.7 |
| 1167873 | Soil | 1.5 | <0.1 | 2.51 | 3.7 | <1 | 142 | <0.1 | 0.29 | <0.1 | 20.5 | 55 | 78.9 | 3.04 | 7 | <0.01 | 0.25 | 3 | 1.62 | 293 | 0.5 |
| 1167881 | Soil | 2.0 | <0.1 | 1.48 | 5.4 | 2 | 432 | 0.1 | 0.31 | <0.1 | 11.0 | 26 | 21.2 | 2.83 | 6 | 0.02 | 0.08 | 8 | 0.52 | 441 | 1.0 |
| 1167880 | Soil | 4.7 | <0.1 | 1.72 | 4.6 | 1 | 199 | 0.1 | 0.33 | 0.2 | 18.7 | 28 | 39.1 | 3.14 | 6 | 0.04 | 0.09 | 7 | 0.81 | 730 | 0.8 |
| 1167856 | Soil | 9.9 | 0.2 | 1.91 | 5.5 | 2 | 200 | 0.1 | 0.38 | 0.1 | 10.7 | 32 | 41.0 | 2.90 | 7 | 0.05 | 0.07 | 8 | 0.84 | 303 | 0.8 |
| 1167852 | Soil | 11.5 | 0.2 | 1.71 | 4.6 | 1 | 138 | 0.1 | 0.28 | <0.1 | 8.8 | 29 | 24.3 | 2.44 | 6 | 0.03 | 0.06 | 8 | 0.66 | 174 | 0.5 |
| 1167851 | Soil | 2.6 | <0.1 | 1.31 | 2.6 | <1 | 149 | 0.1 | 0.25 | <0.1 | 5.5 | 24 | 16.8 | 1.63 | 5 | 0.04 | 0.05 | 7 | 0.51 | 133 | 0.3 |
| 1167858 | Soil | 7.0 | 0.2 | 1.76 | 4.4 | <1 | 118 | 0.1 | 0.39 | 0.1 | 9.9 | 34 | 30.6 | 2.85 | 7 | 0.05 | 0.08 | 5 | 0.83 | 466 | 1.1 |
| 1167855 | Soil | 4.7 | 0.2 | 1.57 | 4.9 | <1 | 130 | 0.1 | 0.27 | <0.1 | 9.6 | 29 | 42.2 | 2.30 | 6 | 0.04 | 0.06 | 7 | 0.68 | 224 | 0.8 |
| 1167853 | Soil | 22.8 | 0.1 | 2.49 | 3.3 | <1 | 188 | <0.1 | 0.49 | 0.1 | 22.2 | 60 | 66.6 | 3.79 | 7 | 0.01 | 0.16 | 7 | 1.54 | 339 | 0.9 |
| 1167854 | Soil | 8.3 | 0.2 | 2.09 | 5.4 | <1 | 129 | 0.1 | 0.25 | <0.1 | 14.0 | 35 | 30.8 | 3.52 | 7 | 0.02 | 0.24 | 6 | 1.10 | 320 | 0.7 |
| 1167860 | Soil | 4.2 | 0.1 | 1.76 | 4.0 | <1 | 264 | 0.1 | 0.30 | 0.2 | 21.3 | 25 | 35.8 | 3.58 | 6 | 0.04 | 0.15 | 9 | 0.88 | 1017 | 0.9 |
| 1167859 | Soil | 3.0 | 0.1 | 1.78 | 3.3 | 1 | 187 | 0.1 | 0.28 | 0.2 | 15.5 | 25 | 38.4 | 3.55 | 7 | 0.04 | 0.08 | 7 | 1.05 | 508 | 1.0 |
| 1167857 | Soil | 16.0 | 0.2 | 1.95 | 4.7 | <1 | 195 | 0.1 | 0.62 | 0.1 | 13.5 | 34 | 44.7 | 2.93 | 6 | 0.05 | 0.06 | 8 | 0.99 | 420 | 0.6 |
| 1167871 | Soil | 6.8 | <0.1 | 1.22 | 3.3 | <1 | 129 | <0.1 | 0.22 | <0.1 | 5.0 | 21 | 13.1 | 1.82 | 5 | 0.04 | 0.06 | 6 | 0.46 | 127 | 0.4 |
| 1167861 | Soil | 0.9 | <0.1 | 1.77 | 7.4 | <1 | 513 | 0.1 | 0.19 | <0.1 | 8.3 | 28 | 19.7 | 2.70 | 6 | 0.02 | 0.04 | 8 | 0.45 | 220 | 1.0 |
| 1167862 | Soil | 6.7 | <0.1 | 1.68 | 4.4 | <1 | 176 | <0.1 | 0.27 | 0.1 | 13.5 | 25 | 34.5 | 3.28 | 6 | 0.03 | 0.11 | 7 | 0.85 | 504 | 1.1 |
| 1167864 | Soil | 6.5 | 0.1 | 1.67 | 5.2 | <1 | 207 | 0.1 | 0.40 | <0.1 | 8.2 | 30 | 34.3 | 2.43 | 6 | 0.04 | 0.05 | 8 | 0.67 | 197 | 0.6 |
| 1167867 | Soil | 15.1 | 0.4 | 4.30 | 1.0 | <1 | 396 | <0.1 | 0.54 | <0.1 | 25.6 | 77 | 71.9 | 5.52 | 11 | <0.01 | 1.63 | 2 | 3.43 | 715 | 0.5 |
| 1167863 | Soil | 4.7 | 0.1 | 1.70 | 4.7 | <1 | 199 | 0.1 | 0.33 | 0.1 | 13.7 | 28 | 30.4 | 2.68 | 6 | 0.03 | 0.06 | 8 | 0.80 | 489 | 0.6 |
| 1167865 | Soil | 10.7 | 0.2 | 1.83 | 4.4 | <1 | 241 | <0.1 | 0.51 | 0.1 | 13.4 | 35 | 44.5 | 2.81 | 6 | 0.04 | 0.08 | 8 | 0.88 | 395 | 0.7 |
| 1167866 | Soil | 10.2 | 0.2 | 1.88 | 4.6 | 1 | 214 | 0.1 | 0.32 | <0.1 | 9.8 | 33 | 40.0 | 2.71 | 6 | 0.04 | 0.14 | 9 | 0.90 | 236 | 0.6 |
| 1167870 | Soil | 2.3 | <0.1 | 1.96 | 4.2 | <1 | 181 | <0.1 | 0.29 | 0.1 | 10.9 | 27 | 29.2 | 3.12 | 6 | 0.02 | 0.13 | 8 | 0.78 | 200 | 0.6 |
| 1167868 | Soil | 2.5 | <0.1 | 2.68 | 1.2 | <1 | 261 | <0.1 | 0.38 | <0.1 | 22.4 | 62 | 81.9 | 3.23 | 6 | <0.01 | 0.96 | 4 | 2.35 | 367 | 0.3 |

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# CERTIFICATE OF ANALYSIS DAW11000152.1

| | 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 |
| 1167876 | Soil | 0.015 | 19.3 | 0.049 | 6.8 | <0.05 | 0.1 | 4.8 | <0.5 | 24 | <0.2 | 1.4 | 0.140 | <0.1 | 0.7 | 85 | <0.1 | 58 |
| 1167872 | Soil | 0.017 | 10.2 | 0.049 | 4.1 | 0.08 | 0.1 | 3.2 | <0.5 | 15 | <0.2 | 0.4 | 0.069 | <0.1 | 0.5 | 38 | <0.1 | 40 |
| 1167877 | Soil | 0.016 | 19.3 | 0.049 | 7.0 | <0.05 | 0.3 | 4.0 | <0.5 | 22 | <0.2 | 1.5 | 0.095 | <0.1 | 0.6 | 77 | 0.1 | 57 |
| 1167874 | Soil | 0.023 | 21.8 | 0.074 | 3.6 | <0.05 | <0.1 | 5.9 | <0.5 | 20 | <0.2 | 1.2 | 0.185 | 0.2 | 0.3 | 130 | <0.1 | 59 |
| 1167879 | Soil | 0.017 | 16.8 | 0.048 | 7.4 | <0.05 | 0.2 | 4.2 | <0.5 | 19 | <0.2 | 1.6 | 0.085 | <0.1 | 0.5 | 74 | 0.1 | 63 |
| 1167878 | Soil | 0.019 | 19.4 | 0.054 | 5.4 | <0.05 | 0.2 | 3.7 | <0.5 | 21 | <0.2 | 2.1 | 0.112 | <0.1 | 0.4 | 73 | 0.1 | 55 |
| 1167875 | Soil | 0.013 | 18.7 | 0.025 | 6.3 | <0.05 | 0.2 | 4.5 | <0.5 | 15 | <0.2 | 2.0 | 0.127 | <0.1 | 0.4 | 93 | <0.1 | 58 |
| 1167873 | Soil | 0.019 | 25.4 | 0.032 | 4.0 | <0.05 | 0.2 | 3.0 | <0.5 | 16 | <0.2 | 1.0 | 0.180 | <0.1 | 0.2 | 98 | <0.1 | 47 |
| 1167881 | Soil | 0.013 | 15.3 | 0.032 | 10.9 | <0.05 | 0.2 | 4.5 | <0.5 | 20 | <0.2 | 2.2 | 0.074 | <0.1 | 0.5 | 76 | <0.1 | 60 |
| 1167880 | Soil | 0.016 | 16.4 | 0.049 | 8.7 | <0.05 | 0.2 | 4.9 | <0.5 | 19 | <0.2 | 1.7 | 0.073 | <0.1 | 0.5 | 82 | <0.1 | 74 |
| 1167856 | Soil | 0.016 | 16.8 | 0.043 | 8.4 | <0.05 | 0.3 | 4.1 | <0.5 | 24 | <0.2 | 1.4 | 0.097 | <0.1 | 0.6 | 84 | 0.2 | 58 |
| 1167852 | Soil | 0.013 | 15.8 | 0.053 | 7.4 | <0.05 | 0.2 | 3.1 | 0.5 | 20 | <0.2 | 1.3 | 0.091 | <0.1 | 0.5 | 63 | <0.1 | 57 |
| 1167851 | Soil | 0.014 | 12.0 | 0.044 | 7.0 | <0.05 | 0.2 | 2.4 | <0.5 | 18 | <0.2 | 0.8 | 0.076 | <0.1 | 0.5 | 44 | <0.1 | 48 |
| 1167858 | Soil | 0.014 | 17.0 | 0.034 | 8.6 | <0.05 | 0.2 | 3.3 | <0.5 | 19 | <0.2 | 1.2 | 0.092 | <0.1 | 0.3 | 80 | 0.1 | 58 |
| 1167855 | Soil | 0.015 | 14.8 | 0.031 | 6.4 | <0.05 | 0.2 | 2.8 | <0.5 | 18 | <0.2 | 1.3 | 0.095 | <0.1 | 0.5 | 69 | <0.1 | 41 |
| 1167853 | Soil | 0.021 | 25.1 | 0.059 | 4.5 | <0.05 | 0.2 | 6.0 | 0.5 | 27 | <0.2 | 1.9 | 0.157 | <0.1 | 0.5 | 114 | <0.1 | 68 |
| 1167854 | Soil | 0.012 | 19.0 | 0.029 | 6.4 | <0.05 | 0.2 | 3.4 | <0.5 | 19 | <0.2 | 1.8 | 0.177 | 0.2 | 0.4 | 101 | <0.1 | 57 |
| 1167860 | Soil | 0.016 | 14.1 | 0.059 | 9.5 | <0.05 | 0.2 | 6.2 | 0.9 | 21 | <0.2 | 2.2 | 0.079 | <0.1 | 0.6 | 91 | <0.1 | 95 |
| 1167859 | Soil | 0.019 | 14.0 | 0.055 | 6.8 | 0.06 | 0.1 | 5.5 | 1.0 | 21 | <0.2 | 1.4 | 0.075 | <0.1 | 0.5 | 91 | <0.1 | 100 |
| 1167857 | Soil | 0.019 | 18.1 | 0.052 | 8.6 | <0.05 | 0.2 | 5.4 | <0.5 | 30 | <0.2 | 1.4 | 0.074 | <0.1 | 0.6 | 82 | 0.2 | 60 |
| 1167871 | Soil | 0.011 | 9.4 | 0.058 | 6.0 | <0.05 | 0.1 | 2.1 | <0.5 | 16 | <0.2 | 0.7 | 0.088 | <0.1 | 0.4 | 37 | <0.1 | 42 |
| 1167861 | Soil | 0.013 | 14.1 | 0.027 | 10.0 | <0.05 | 0.4 | 3.1 | <0.5 | 17 | <0.2 | 2.1 | 0.077 | <0.1 | 0.4 | 73 | <0.1 | 44 |
| 1167862 | Soil | 0.017 | 13.4 | 0.046 | 10.1 | <0.05 | 0.2 | 4.6 | <0.5 | 18 | <0.2 | 1.8 | 0.087 | <0.1 | 0.5 | 88 | 0.1 | 82 |
| 1167864 | Soil | 0.016 | 16.0 | 0.029 | 8.2 | <0.05 | 0.2 | 3.7 | <0.5 | 22 | <0.2 | 1.5 | 0.087 | <0.1 | 0.6 | 67 | <0.1 | 54 |
| 1167867 | Soil | 0.023 | 36.9 | 0.072 | 2.9 | <0.05 | <0.1 | 6.4 | <0.5 | 52 | <0.2 | 0.4 | 0.297 | 0.4 | 0.2 | 199 | <0.1 | 85 |
| 1167863 | Soil | 0.016 | 15.6 | 0.047 | 6.8 | <0.05 | 0.2 | 4.2 | <0.5 | 20 | <0.2 | 1.6 | 0.086 | <0.1 | 0.5 | 71 | 0.1 | 70 |
| 1167865 | Soil | 0.018 | 17.8 | 0.046 | 6.6 | <0.05 | 0.2 | 5.0 | <0.5 | 25 | <0.2 | 1.6 | 0.083 | <0.1 | 0.6 | 80 | 0.1 | 57 |
| 1167866 | Soil | 0.014 | 16.5 | 0.037 | 7.3 | <0.05 | 0.2 | 3.7 | <0.5 | 22 | <0.2 | 1.8 | 0.130 | <0.1 | 0.7 | 77 | 0.1 | 53 |
| 1167870 | Soil | 0.017 | 13.6 | 0.070 | 6.1 | <0.05 | 0.2 | 3.3 | <0.5 | 20 | <0.2 | 2.1 | 0.138 | 0.1 | 0.5 | 77 | <0.1 | 64 |
| 1167868 | Soil | 0.021 | 23.5 | 0.069 | 1.8 | <0.05 | <0.1 | 3.8 | <0.5 | 17 | <0.2 | 0.6 | 0.204 | 0.2 | 0.2 | 105 | <0.1 | 45 |

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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 |
| 1167869 | Soil | 1.1 | <0.1 | 2.55 | 1.6 | <1 | 253 | <0.1 | 0.36 | <0.1 | 21.1 | 60 | 74.6 | 3.06 | 6 | 0.02 | 0.91 | 3 | 2.25 | 353 | 0.4 |
| 1161054 | Soil | 1.7 | 0.2 | 1.77 | 1.9 | 1 | 62 | <0.1 | 0.79 | 0.2 | 24.2 | 45 | 94.6 | 4.76 | 6 | 0.03 | 0.05 | 7 | 0.77 | 746 | 0.9 |
| 1160665 | Soil | 2.7 | 0.1 | 1.91 | 5.2 | <1 | 436 | 0.1 | 0.82 | 0.3 | 19.5 | 29 | 41.3 | 2.75 | 6 | 0.06 | 0.04 | 14 | 0.54 | 1107 | 0.9 |
| 1160666 | Soil | 10.8 | 0.3 | 2.22 | 3.5 | <1 | 148 | <0.1 | 0.34 | <0.1 | 15.8 | 50 | 46.3 | 3.08 | 6 | 0.03 | 0.33 | 5 | 1.55 | 308 | 0.5 |
| 1160664 | Soil | 16.0 | 0.2 | 2.21 | 4.4 | <1 | 304 | 0.1 | 0.76 | 0.1 | 17.0 | 36 | 62.7 | 3.40 | 7 | 0.04 | 0.18 | 8 | 1.27 | 299 | 0.4 |
| 1160669 | Soil | 1.5 | 0.1 | 2.97 | 3.5 | <1 | 214 | <0.1 | 0.34 | <0.1 | 17.7 | 51 | 59.8 | 4.11 | 9 | 0.01 | 0.59 | 5 | 1.89 | 457 | 0.7 |
| 1160667 | Soil | 4.4 | <0.1 | 2.60 | 2.2 | 1 | 244 | 0.1 | 0.37 | <0.1 | 17.3 | 37 | 61.5 | 3.82 | 9 | <0.01 | 0.74 | 3 | 1.94 | 480 | 0.4 |
| 1160668 | Soil | 5.5 | 0.2 | 2.36 | 3.1 | 1 | 175 | 0.1 | 0.24 | 0.1 | 14.1 | 51 | 66.9 | 3.37 | 8 | 0.02 | 0.21 | 5 | 1.52 | 304 | 0.9 |
| 1160670 | Soil | 2.0 | <0.1 | 2.28 | 3.6 | 1 | 191 | 0.1 | 0.33 | <0.1 | 14.6 | 29 | 33.3 | 3.59 | 7 | 0.01 | 0.46 | 6 | 1.54 | 454 | 0.5 |
| 1160672 | Soil | 3.0 | 0.2 | 1.79 | 4.5 | 1 | 167 | 0.1 | 0.29 | <0.1 | 8.3 | 28 | 38.0 | 2.63 | 7 | 0.03 | 0.10 | 5 | 0.86 | 213 | 0.7 |
| 1160671 | Soil | 2.0 | <0.1 | 1.77 | 4.5 | 1 | 115 | 0.1 | 0.19 | <0.1 | 10.5 | 27 | 23.3 | 2.68 | 6 | 0.03 | 0.13 | 5 | 0.93 | 328 | 0.7 |
| 1167801 | Soil | 1.9 | <0.1 | 2.15 | 3.9 | 1 | 206 | 0.1 | 0.23 | 0.1 | 9.4 | 26 | 48.1 | 3.90 | 8 | 0.02 | 0.25 | 6 | 1.19 | 387 | 1.5 |
| 1167807 | Soil | 1.7 | 0.1 | 1.53 | 4.0 | 1 | 336 | 0.1 | 0.27 | <0.1 | 8.9 | 20 | 20.0 | 2.76 | 6 | 0.03 | 0.09 | 9 | 0.60 | 289 | 0.6 |
| 1160673 | Soil | 1.3 | <0.1 | 1.98 | 3.9 | 1 | 176 | <0.1 | 0.38 | <0.1 | 11.2 | 27 | 28.9 | 2.92 | 6 | 0.02 | 0.09 | 6 | 1.07 | 353 | 0.6 |
| 1167803 | Soil | <0.5 | 0.1 | 1.27 | 3.8 | <1 | 190 | 0.1 | 0.23 | <0.1 | 9.0 | 26 | 25.1 | 2.38 | 5 | 0.03 | 0.06 | 6 | 0.54 | 301 | 0.7 |
| 1167809 | Soil | 2.5 | 0.2 | 1.35 | 2.8 | <1 | 157 | 0.1 | 0.18 | <0.1 | 5.4 | 18 | 27.0 | 2.48 | 6 | 0.05 | 0.08 | 5 | 0.60 | 201 | 0.8 |
| 1167812 | Soil | 1.6 | <0.1 | 1.71 | 3.6 | <1 | 116 | <0.1 | 0.24 | <0.1 | 9.8 | 26 | 28.2 | 2.63 | 5 | 0.03 | 0.08 | 5 | 0.87 | 286 | 0.6 |
| 1167814 | Soil | 2.3 | 0.1 | 1.74 | 3.3 | <1 | 152 | <0.1 | 0.25 | <0.1 | 8.2 | 28 | 23.6 | 2.40 | 6 | 0.02 | 0.16 | 6 | 0.99 | 207 | 0.6 |
| 1167810 | Soil | 1.1 | 0.1 | 2.02 | 3.4 | <1 | 251 | <0.1 | 0.32 | <0.1 | 11.6 | 25 | 40.6 | 3.30 | 7 | 0.02 | 0.17 | 7 | 1.10 | 360 | 1.1 |
| 1167811 | Soil | 1.5 | 0.1 | 2.12 | 3.3 | <1 | 301 | <0.1 | 0.36 | 0.1 | 12.7 | 26 | 47.0 | 3.74 | 7 | 0.02 | 0.22 | 7 | 1.18 | 410 | 1.1 |
| 1167813 | Soil | 1.6 | 0.1 | 1.61 | 4.1 | 1 | 108 | <0.1 | 0.23 | <0.1 | 8.7 | 24 | 25.6 | 2.47 | 6 | 0.03 | 0.06 | 5 | 0.82 | 202 | 0.6 |
| 1167815 | Soil | 1.8 | 0.2 | 1.97 | 2.8 | <1 | 187 | <0.1 | 0.26 | <0.1 | 11.8 | 35 | 34.2 | 2.70 | 6 | 0.03 | 0.25 | 6 | 1.18 | 279 | 0.6 |
| 1167818 | Soil | 6.9 | <0.1 | 2.91 | 0.8 | <1 | 203 | 0.1 | 0.33 | 0.1 | 16.8 | 31 | 54.5 | 3.81 | 8 | 0.01 | 0.78 | 5 | 2.23 | 445 | 0.7 |
| 1167816 | Soil | 1.3 | 0.2 | 2.45 | 2.2 | <1 | 166 | <0.1 | 0.26 | <0.1 | 15.3 | 51 | 48.3 | 3.30 | 8 | 0.02 | 0.26 | 5 | 1.62 | 346 | 0.7 |
| 1167820 | Soil | 8.0 | 0.1 | 1.45 | 4.3 | <1 | 120 | 0.1 | 0.17 | <0.1 | 4.6 | 21 | 13.8 | 1.90 | 5 | 0.04 | 0.04 | 6 | 0.50 | 115 | 0.3 |
| 1167819 | Soil | 14.3 | 0.2 | 2.91 | 1.8 | <1 | 402 | <0.1 | 0.59 | <0.1 | 20.2 | 42 | 73.4 | 4.56 | 10 | 0.03 | 0.97 | 5 | 2.17 | 749 | 0.4 |
| 1167802 | Soil | 2.4 | <0.1 | 1.75 | 4.8 | 1 | 217 | <0.1 | 0.23 | <0.1 | 11.8 | 20 | 28.5 | 3.54 | 6 | 0.01 | 0.10 | 6 | 0.72 | 427 | 0.8 |
| 1167808 | Soil | 2.5 | 0.1 | 1.66 | 3.0 | <1 | 406 | <0.1 | 0.29 | <0.1 | 9.5 | 19 | 24.5 | 2.77 | 6 | 0.04 | 0.13 | 9 | 0.65 | 347 | 0.6 |
| 1167821 | Soil | 1.1 | 0.2 | 1.39 | 2.6 | <1 | 150 | <0.1 | 0.23 | <0.1 | 7.2 | 27 | 21.6 | 2.15 | 5 | 0.02 | 0.17 | 5 | 0.74 | 166 | 0.5 |
| 1161069 | Soil | 1.1 | <0.1 | 2.33 | 8.2 | <1 | 218 | 0.1 | 0.16 | <0.1 | 12.5 | 35 | 20.0 | 3.07 | 6 | 0.02 | 0.04 | 6 | 0.46 | 262 | 1.3 |

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Project: TSL
Report Date: September 03, 2011



# CERTIFICATE OF ANALYSIS DAW11000152.1

| | 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 |
| 1167869 | Soil | 0.022 | 22.6 | 0.061 | 2.0 | <0.05 | <0.1 | 4.1 | <0.5 | 17 | <0.2 | 0.7 | 0.194 | 0.2 | 0.2 | 102 | <0.1 | 43 |
| 1161054 | Soil | 0.043 | 28.3 | 0.049 | 5.2 | <0.05 | 0.3 | 13.7 | <0.5 | 33 | <0.2 | 3.2 | 0.082 | <0.1 | 2.0 | 115 | <0.1 | 76 |
| 1160665 | Soil | 0.021 | 21.8 | 0.043 | 9.9 | <0.05 | 0.3 | 4.5 | <0.5 | 34 | <0.2 | 1.8 | 0.078 | 0.1 | 1.3 | 70 | 0.1 | 59 |
| 1160666 | Soil | 0.016 | 23.1 | 0.028 | 6.3 | <0.05 | 0.1 | 3.1 | <0.5 | 22 | <0.2 | 1.2 | 0.182 | 0.3 | 0.5 | 94 | <0.1 | 60 |
| 1160664 | Soil | 0.018 | 21.3 | 0.040 | 7.1 | <0.05 | 0.2 | 4.7 | <0.5 | 37 | <0.2 | 1.7 | 0.170 | 0.1 | 0.7 | 106 | 0.1 | 68 |
| 1160669 | Soil | 0.019 | 22.1 | 0.049 | 7.2 | <0.05 | 0.1 | 4.1 | <0.5 | 20 | <0.2 | 1.4 | 0.236 | 0.1 | 0.3 | 132 | <0.1 | 84 |
| 1160667 | Soil | 0.017 | 20.7 | 0.075 | 4.7 | <0.05 | <0.1 | 3.1 | <0.5 | 23 | <0.2 | 1.0 | 0.212 | 0.2 | 0.2 | 114 | <0.1 | 80 |
| 1160668 | Soil | 0.020 | 23.8 | 0.039 | 8.6 | <0.05 | 0.1 | 5.4 | 0.7 | 18 | <0.2 | 0.9 | 0.106 | <0.1 | 0.4 | 101 | <0.1 | 82 |
| 1160670 | Soil | 0.018 | 17.6 | 0.044 | 5.5 | <0.05 | 0.1 | 3.0 | <0.5 | 17 | <0.2 | 1.4 | 0.184 | 0.2 | 0.3 | 100 | <0.1 | 69 |
| 1160672 | Soil | 0.016 | 15.4 | 0.038 | 5.6 | <0.05 | 0.2 | 2.7 | <0.5 | 20 | <0.2 | 0.9 | 0.112 | 0.1 | 0.4 | 72 | <0.1 | 49 |
| 1160671 | Soil | 0.012 | 14.4 | 0.038 | 6.3 | <0.05 | 0.2 | 2.4 | <0.5 | 12 | <0.2 | 0.8 | 0.117 | <0.1 | 0.3 | 77 | 0.1 | 52 |
| 1167801 | Soil | 0.040 | 15.1 | 0.037 | 6.6 | 0.23 | 0.2 | 4.8 | 0.9 | 20 | <0.2 | 1.3 | 0.133 | 0.1 | 0.3 | 106 | <0.1 | 115 |
| 1167807 | Soil | 0.019 | 13.2 | 0.045 | 8.0 | <0.05 | 0.2 | 3.7 | <0.5 | 16 | <0.2 | 1.6 | 0.080 | <0.1 | 0.5 | 62 | <0.1 | 63 |
| 1160673 | Soil | 0.017 | 17.4 | 0.042 | 5.3 | <0.05 | 0.2 | 3.5 | <0.5 | 18 | <0.2 | 1.3 | 0.120 | <0.1 | 0.3 | 77 | 0.1 | 62 |
| 1167803 | Soil | 0.017 | 14.8 | 0.040 | 10.7 | <0.05 | 0.1 | 2.5 | <0.5 | 12 | <0.2 | 1.0 | 0.064 | <0.1 | 0.3 | 62 | 0.1 | 47 |
| 1167809 | Soil | 0.014 | 9.0 | 0.044 | 4.7 | 0.06 | 0.1 | 2.6 | 0.8 | 15 | <0.2 | 0.5 | 0.048 | <0.1 | 0.5 | 58 | <0.1 | 52 |
| 1167812 | Soil | 0.014 | 14.8 | 0.042 | 5.7 | <0.05 | 0.1 | 2.5 | <0.5 | 15 | <0.2 | 0.7 | 0.103 | <0.1 | 0.3 | 74 | 0.1 | 49 |
| 1167814 | Soil | 0.014 | 14.1 | 0.039 | 6.6 | <0.05 | 0.1 | 2.6 | <0.5 | 16 | <0.2 | 0.9 | 0.114 | <0.1 | 0.4 | 67 | <0.1 | 54 |
| 1167810 | Soil | 0.030 | 16.1 | 0.043 | 5.6 | 0.09 | 0.1 | 4.7 | 0.8 | 22 | <0.2 | 1.7 | 0.111 | <0.1 | 0.5 | 77 | <0.1 | 83 |
| 1167811 | Soil | 0.037 | 16.4 | 0.054 | 5.3 | 0.14 | 0.1 | 5.1 | 1.0 | 25 | <0.2 | 1.6 | 0.107 | <0.1 | 0.6 | 82 | <0.1 | 100 |
| 1167813 | Soil | 0.016 | 14.1 | 0.025 | 5.3 | <0.05 | 0.2 | 2.4 | <0.5 | 14 | <0.2 | 0.9 | 0.107 | <0.1 | 0.3 | 72 | 0.1 | 50 |
| 1167815 | Soil | 0.017 | 17.0 | 0.041 | 5.0 | <0.05 | 0.1 | 3.4 | <0.5 | 20 | <0.2 | 0.8 | 0.130 | 0.1 | 0.4 | 72 | <0.1 | 57 |
| 1167818 | Soil | 0.021 | 16.7 | 0.052 | 14.0 | <0.05 | <0.1 | 4.4 | <0.5 | 16 | <0.2 | 1.6 | 0.236 | 0.2 | 0.4 | 115 | <0.1 | 95 |
| 1167816 | Soil | 0.019 | 23.1 | 0.036 | 6.2 | <0.05 | <0.1 | 4.7 | <0.5 | 17 | <0.2 | 0.8 | 0.140 | 0.1 | 0.3 | 102 | <0.1 | 84 |
| 1167820 | Soil | 0.011 | 11.5 | 0.038 | 7.6 | <0.05 | 0.1 | 2.1 | <0.5 | 14 | <0.2 | 0.5 | 0.049 | <0.1 | 0.4 | 40 | 0.1 | 45 |
| 1167819 | Soil | 0.025 | 18.8 | 0.092 | 4.1 | <0.05 | <0.1 | 6.3 | <0.5 | 24 | <0.2 | 1.0 | 0.219 | 0.2 | 0.4 | 140 | <0.1 | 75 |
| 1167802 | Soil | 0.019 | 13.3 | 0.039 | 6.9 | 0.05 | 0.2 | 4.2 | <0.5 | 12 | <0.2 | 1.5 | 0.073 | <0.1 | 0.4 | 85 | <0.1 | 68 |
| 1167808 | Soil | 0.019 | 12.6 | 0.043 | 6.6 | 0.05 | 0.1 | 3.4 | <0.5 | 19 | <0.2 | 1.5 | 0.096 | 0.1 | 0.5 | 69 | <0.1 | 57 |
| 1167821 | Soil | 0.014 | 13.8 | 0.060 | 4.5 | <0.05 | 0.1 | 2.1 | <0.5 | 14 | <0.2 | 0.5 | 0.102 | 0.2 | 0.3 | 61 | 0.1 | 46 |
| 1161069 | Soil | 0.011 | 23.2 | 0.029 | 8.5 | <0.05 | 0.4 | 2.4 | <0.5 | 14 | <0.2 | 2.1 | 0.052 | <0.1 | 0.4 | 62 | 0.1 | 51 |

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Project: TSL
Report Date: September 03, 2011



# CERTIFICATE OF ANALYSIS DAW11000152.1

| | 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 |
| 1161059 | Soil | 2.2 | 0.2 | 1.63 | 4.7 | <1 | 304 | 0.1 | 0.22 | <0.1 | 8.1 | 22 | 27.1 | 2.97 | 7 | 0.02 | 0.07 | 7 | 0.53 | 206 | 0.8 |
| 1161067 | Soil | <0.5 | <0.1 | 1.35 | 4.2 | <1 | 96 | <0.1 | 0.33 | <0.1 | 9.2 | 44 | 18.5 | 2.10 | 3 | <0.01 | 0.03 | 3 | 0.54 | 208 | 0.7 |
| 1161070 | Soil | <0.5 | <0.1 | 1.57 | 4.0 | 2 | 176 | <0.1 | 0.31 | 0.1 | 7.7 | 18 | 14.3 | 3.15 | 6 | 0.01 | 0.07 | 7 | 0.47 | 260 | 1.4 |
| 1161068 | Soil | 1.2 | <0.1 | 1.11 | 2.8 | <1 | 66 | <0.1 | 0.36 | <0.1 | 8.6 | 47 | 17.0 | 1.77 | 3 | <0.01 | 0.03 | 2 | 0.51 | 164 | 0.5 |
| 1161066 | Soil | 2.5 | 0.1 | 0.72 | 4.2 | <1 | 252 | 0.1 | 0.17 | 0.1 | 3.2 | 11 | 10.0 | 1.75 | 5 | 0.02 | 0.07 | 6 | 0.17 | 178 | 0.9 |
| 1161064 | Soil | 2.4 | 0.2 | 1.38 | 6.2 | <1 | 129 | <0.1 | 0.23 | <0.1 | 12.8 | 28 | 56.0 | 2.42 | 4 | 0.02 | 0.03 | 4 | 0.47 | 227 | 0.9 |
| 1161060 | Soil | 1.6 | 0.1 | 1.10 | 4.1 | <1 | 206 | 0.2 | 0.19 | 0.1 | 3.7 | 15 | 10.7 | 2.50 | 6 | 0.04 | 0.05 | 5 | 0.16 | 379 | 1.1 |
| 1161061 | Soil | 2.9 | 0.2 | 1.37 | 3.8 | 3 | 414 | 0.1 | 0.50 | 0.2 | 8.3 | 18 | 25.7 | 2.88 | 5 | 0.05 | 0.12 | 31 | 0.40 | 460 | 0.9 |
| 1161062 | Soil | 2.5 | 0.2 | 1.46 | 2.9 | <1 | 319 | <0.1 | 1.24 | 0.3 | 12.3 | 28 | 141.5 | 2.76 | 5 | 0.05 | 0.04 | 8 | 0.47 | 525 | 0.9 |
| 1161063 | Soil | 2.6 | 0.1 | 1.21 | 3.5 | 1 | 209 | <0.1 | 1.09 | <0.1 | 10.7 | 33 | 59.2 | 2.14 | 4 | 0.04 | 0.04 | 6 | 0.54 | 408 | 0.4 |
| 1161065 | Soil | 1.7 | 0.1 | 0.95 | 4.3 | <1 | 320 | 0.1 | 0.23 | 0.1 | 5.5 | 16 | 12.9 | 1.95 | 5 | 0.03 | 0.12 | 30 | 0.25 | 194 | 1.2 |
| 1160280 | Soil | 51.5 | 0.2 | 1.72 | 5.5 | 1 | 320 | <0.1 | 0.59 | <0.1 | 11.2 | 27 | 34.1 | 2.74 | 6 | 0.02 | 0.13 | 9 | 0.86 | 399 | 0.6 |
| 1161071 | Soil | <0.5 | 0.1 | 1.23 | 3.1 | 2 | 94 | 0.3 | 0.13 | <0.1 | 5.8 | 17 | 17.9 | 1.92 | 6 | 0.02 | 0.06 | 8 | 0.25 | 157 | 1.3 |
| 1160281 | Soil | <0.5 | 0.2 | 2.42 | 4.5 | 1 | 714 | 0.1 | 0.72 | 0.2 | 16.6 | 36 | 70.4 | 3.84 | 8 | 0.05 | 0.37 | 12 | 1.35 | 389 | 0.7 |
| 1161072 | Soil | 2.9 | 0.1 | 1.53 | 4.2 | 4 | 348 | 0.1 | 0.76 | 0.3 | 9.6 | 20 | 20.5 | 2.84 | 5 | 0.05 | 0.06 | 20 | 0.41 | 411 | 1.0 |
| 1160279 | Soil | 4.5 | 0.2 | 1.66 | 8.1 | 2 | 233 | 0.2 | 0.52 | 0.3 | 12.1 | 28 | 38.9 | 3.31 | 5 | 0.02 | 0.12 | 13 | 0.79 | 349 | 0.8 |
| 1161057 | Soil | 1.2 | <0.1 | 1.08 | 3.7 | 2 | 116 | 0.1 | 0.23 | <0.1 | 6.8 | 26 | 22.8 | 1.84 | 4 | 0.04 | 0.04 | 5 | 0.38 | 121 | 0.6 |
| 1161058 | Soil | 17.7 | <0.1 | 1.43 | 3.6 | 2 | 105 | <0.1 | 0.38 | <0.1 | 23.0 | 40 | 40.1 | 2.95 | 5 | <0.01 | 0.06 | 6 | 0.63 | 699 | 0.5 |
| 1161056 | Soil | 1.2 | <0.1 | 1.15 | 4.2 | 2 | 233 | <0.1 | 0.20 | <0.1 | 6.4 | 19 | 13.6 | 2.01 | 4 | <0.01 | 0.14 | 19 | 0.39 | 199 | 0.6 |
| 1161055 | Soil | 2.4 | <0.1 | 1.39 | 5.0 | 2 | 397 | <0.1 | 0.25 | <0.1 | 7.2 | 23 | 15.3 | 2.48 | 5 | 0.01 | 0.10 | 20 | 0.40 | 199 | 1.0 |
| 1161049 | Soil | 2.3 | 0.1 | 1.64 | 3.7 | 3 | 240 | <0.1 | 0.48 | 0.2 | 9.4 | 27 | 20.1 | 2.51 | 5 | 0.02 | 0.06 | 10 | 0.70 | 244 | 0.5 |
| 1161051 | Soil | <0.5 | 0.2 | 1.60 | 16.3 | 3 | 166 | <0.1 | 0.41 | 0.3 | 18.6 | 40 | 60.1 | 2.71 | 6 | 0.04 | 0.04 | 7 | 0.58 | 298 | 0.8 |
| 1161050 | Soil | <0.5 | 0.2 | 1.85 | 5.0 | 3 | 344 | 0.1 | 0.44 | 0.2 | 13.7 | 25 | 30.3 | 3.29 | 6 | 0.05 | 0.06 | 33 | 0.59 | 250 | 0.5 |
| 1161052 | Soil | 1.5 | <0.1 | 2.24 | 8.9 | 2 | 158 | <0.1 | 0.23 | <0.1 | 11.2 | 35 | 41.8 | 3.20 | 6 | 0.02 | 0.04 | 9 | 0.54 | 209 | 0.8 |
| 1161048 | Soil | 1.9 | 0.1 | 2.07 | 6.0 | 1 | 510 | 0.1 | 0.55 | 0.2 | 12.9 | 34 | 49.6 | 3.56 | 7 | 0.02 | 0.11 | 15 | 0.98 | 297 | 0.6 |
| 1161047 | Soil | 1.5 | <0.1 | 2.76 | 4.3 | 1 | 434 | <0.1 | 0.34 | <0.1 | 19.7 | 47 | 56.2 | 4.37 | 8 | <0.01 | 0.34 | 7 | 1.58 | 284 | 0.6 |
| 1161053 | Soil | 1.2 | <0.1 | 1.96 | 9.8 | 2 | 150 | 0.1 | 0.25 | <0.1 | 14.5 | 37 | 40.7 | 2.77 | 5 | 0.01 | 0.04 | 7 | 0.49 | 175 | 1.0 |
| 1160251 | Soil | 1.8 | 0.2 | 2.12 | 8.5 | 1 | 197 | 0.2 | 0.20 | <0.1 | 11.3 | 31 | 29.8 | 4.18 | 8 | 0.02 | 0.15 | 11 | 0.86 | 263 | 1.2 |
| 1160252 | Soil | 5.7 | <0.1 | 1.81 | 6.7 | 2 | 232 | 0.1 | 0.34 | 0.1 | 11.9 | 33 | 40.6 | 3.41 | 6 | 0.02 | 0.16 | 13 | 0.87 | 327 | 0.7 |
| 1160253 | Soil | 2.6 | <0.1 | 3.62 | 3.5 | <1 | 311 | <0.1 | 0.39 | 0.1 | 24.5 | 44 | 118.1 | 7.16 | 10 | <0.01 | 0.44 | 6 | 2.44 | 441 | 1.2 |

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Project: TSL
Report Date: September 03, 2011



# CERTIFICATE OF ANALYSIS DAW11000152.1

| | 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 |
| 1161059 | Soil | 0.014 | 13.0 | 0.024 | 10.5 | <0.05 | 0.2 | 2.8 | <0.5 | 14 | <0.2 | 1.5 | 0.085 | <0.1 | 0.4 | 74 | <0.1 | 49 |
| 1161067 | Soil | 0.024 | 22.9 | 0.015 | 4.2 | <0.05 | 0.2 | 3.2 | <0.5 | 18 | <0.2 | 0.8 | 0.066 | <0.1 | 0.2 | 49 | <0.1 | 57 |
| 1161070 | Soil | 0.016 | 12.5 | 0.065 | 8.7 | <0.05 | 0.2 | 4.5 | <0.5 | 13 | <0.2 | 1.3 | 0.057 | <0.1 | 0.3 | 43 | <0.1 | 62 |
| 1161068 | Soil | 0.028 | 21.9 | 0.014 | 2.9 | <0.05 | 0.1 | 3.2 | <0.5 | 16 | <0.2 | 0.5 | 0.066 | <0.1 | 0.2 | 41 | <0.1 | 56 |
| 1161066 | Soil | 0.009 | 7.6 | 0.030 | 6.0 | <0.05 | 0.3 | 1.2 | <0.5 | 13 | <0.2 | 1.2 | 0.045 | <0.1 | 0.3 | 43 | <0.1 | 26 |
| 1161064 | Soil | 0.015 | 23.1 | 0.026 | 4.2 | <0.05 | 0.2 | 2.5 | <0.5 | 13 | <0.2 | 1.0 | 0.053 | <0.1 | 0.2 | 50 | <0.1 | 34 |
| 1161060 | Soil | 0.010 | 8.4 | 0.029 | 10.9 | 0.06 | 0.3 | 1.7 | <0.5 | 14 | <0.2 | 0.7 | 0.049 | <0.1 | 0.3 | 57 | <0.1 | 61 |
| 1161061 | Soil | 0.016 | 13.4 | 0.037 | 8.8 | 0.06 | 0.2 | 6.9 | <0.5 | 24 | <0.2 | 2.3 | 0.049 | 0.1 | 0.9 | 46 | <0.1 | 78 |
| 1161062 | Soil | 0.022 | 27.5 | 0.060 | 6.0 | 0.06 | 0.3 | 4.2 | 0.5 | 34 | <0.2 | 0.8 | 0.036 | <0.1 | 0.7 | 67 | <0.1 | 37 |
| 1161063 | Soil | 0.027 | 24.5 | 0.054 | 4.1 | <0.05 | 0.2 | 3.5 | <0.5 | 24 | <0.2 | 0.7 | 0.053 | <0.1 | 0.4 | 49 | <0.1 | 34 |
| 1161065 | Soil | 0.011 | 10.2 | 0.025 | 9.4 | <0.05 | 0.2 | 2.4 | <0.5 | 18 | <0.2 | 3.5 | 0.054 | <0.1 | 0.7 | 41 | <0.1 | 35 |
| 1160280 | Soil | 0.018 | 18.3 | 0.044 | 6.0 | <0.05 | 0.2 | 3.9 | <0.5 | 47 | <0.2 | 2.0 | 0.111 | <0.1 | 0.5 | 74 | <0.1 | 53 |
| 1161071 | Soil | 0.020 | 9.4 | 0.032 | 7.0 | 0.08 | 0.3 | 2.7 | 0.6 | 11 | <0.2 | 0.9 | 0.043 | <0.1 | 0.4 | 40 | 0.1 | 43 |
| 1160281 | Soil | 0.028 | 22.1 | 0.045 | 5.6 | 0.08 | 0.3 | 5.8 | 0.8 | 51 | <0.2 | 2.0 | 0.190 | <0.1 | 1.7 | 110 | <0.1 | 61 |
| 1161072 | Soil | 0.018 | 12.7 | 0.052 | 7.8 | 0.08 | 0.3 | 6.2 | <0.5 | 28 | <0.2 | 3.0 | 0.037 | <0.1 | 1.0 | 43 | 0.1 | 72 |
| 1160279 | Soil | 0.031 | 19.7 | 0.071 | 14.6 | 0.11 | 0.4 | 5.0 | 1.0 | 33 | <0.2 | 3.2 | 0.096 | 0.1 | 0.9 | 68 | 0.1 | 141 |
| 1161057 | Soil | 0.020 | 14.0 | 0.055 | 4.6 | 0.07 | 0.1 | 2.1 | <0.5 | 15 | <0.2 | 0.4 | 0.053 | <0.1 | 0.4 | 43 | <0.1 | 37 |
| 1161058 | Soil | 0.028 | 24.0 | 0.062 | 4.7 | 0.05 | 0.1 | 3.2 | <0.5 | 20 | <0.2 | 1.2 | 0.097 | <0.1 | 0.3 | 83 | <0.1 | 56 |
| 1161056 | Soil | 0.011 | 10.4 | 0.032 | 6.7 | <0.05 | 0.3 | 2.8 | <0.5 | 16 | <0.2 | 5.1 | 0.077 | <0.1 | 1.2 | 42 | <0.1 | 39 |
| 1161055 | Soil | 0.012 | 14.2 | 0.032 | 8.2 | <0.05 | 0.2 | 3.3 | <0.5 | 22 | <0.2 | 4.8 | 0.073 | <0.1 | 1.0 | 46 | <0.1 | 42 |
| 1161049 | Soil | 0.021 | 14.5 | 0.060 | 7.0 | 0.06 | 0.2 | 3.8 | <0.5 | 43 | 0.2 | 1.9 | 0.080 | <0.1 | 0.9 | 59 | 0.2 | 71 |
| 1161051 | Soil | 0.029 | 21.0 | 0.051 | 5.1 | 0.06 | 0.1 | 4.2 | 1.0 | 27 | <0.2 | 0.6 | 0.088 | <0.1 | 0.5 | 64 | <0.1 | 61 |
| 1161050 | Soil | 0.026 | 15.8 | 0.058 | 6.9 | <0.05 | 0.3 | 6.8 | <0.5 | 23 | <0.2 | 3.2 | 0.054 | <0.1 | 1.2 | 73 | 0.1 | 60 |
| 1161052 | Soil | 0.019 | 20.9 | 0.027 | 7.7 | <0.05 | 0.3 | 3.5 | <0.5 | 19 | <0.2 | 2.8 | 0.085 | <0.1 | 0.6 | 67 | 0.1 | 50 |
| 1161048 | Soil | 0.031 | 23.0 | 0.055 | 7.7 | <0.05 | 0.4 | 5.1 | 0.8 | 35 | <0.2 | 3.2 | 0.157 | 0.1 | 0.6 | 88 | 0.1 | 67 |
| 1161047 | Soil | 0.024 | 21.2 | 0.024 | 5.7 | <0.05 | 0.1 | 4.0 | 0.7 | 26 | <0.2 | 1.9 | 0.245 | 0.1 | 0.5 | 132 | <0.1 | 62 |
| 1161053 | Soil | 0.018 | 26.1 | 0.016 | 6.9 | <0.05 | 0.4 | 3.1 | <0.5 | 22 | <0.2 | 2.0 | 0.089 | <0.1 | 0.4 | 61 | 0.1 | 40 |
| 1160251 | Soil | 0.012 | 17.8 | 0.046 | 8.1 | <0.05 | 0.4 | 4.1 | <0.5 | 13 | <0.2 | 3.6 | 0.128 | 0.1 | 0.6 | 85 | <0.1 | 58 |
| 1160252 | Soil | 0.016 | 20.5 | 0.068 | 6.5 | <0.05 | 0.4 | 4.3 | <0.5 | 22 | <0.2 | 2.3 | 0.104 | <0.1 | 0.8 | 73 | 0.1 | 61 |
| 1160253 | Soil | 0.023 | 25.3 | 0.085 | 6.0 | <0.05 | 0.2 | 4.7 | 1.1 | 15 | <0.2 | 1.8 | 0.280 | <0.1 | 0.7 | 177 | <0.1 | 69 |

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Project: TSL
Report Date: September 03, 2011



# CERTIFICATE OF ANALYSIS DAW11000152.1

| | 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 |
| 1160254 | Soil | 5.6 | 0.2 | 1.99 | 8.0 | 1 | 105 | 0.1 | 0.17 | 0.3 | 9.3 | 31 | 34.8 | 3.40 | 6 | <0.01 | 0.06 | 7 | 0.52 | 204 | 1.1 |
| 1160255 | Soil | 2.3 | <0.1 | 1.91 | 7.8 | 2 | 142 | 0.1 | 0.24 | <0.1 | 8.7 | 28 | 19.9 | 2.94 | 6 | <0.01 | 0.06 | 11 | 0.50 | 228 | 1.0 |
| 1160256 | Soil | <0.5 | <0.1 | 1.82 | 4.0 | 3 | 218 | <0.1 | 0.56 | <0.1 | 13.0 | 30 | 59.2 | 2.80 | 5 | 0.04 | 0.06 | 11 | 0.78 | 257 | 0.5 |
| 1160257 | Soil | 8.6 | 0.1 | 1.94 | 3.2 | 1 | 215 | <0.1 | 0.59 | 0.1 | 13.3 | 30 | 44.9 | 2.97 | 5 | 0.06 | 0.09 | 9 | 1.02 | 300 | 0.5 |
| 1160258 | Soil | 1.8 | 0.1 | 1.98 | 4.1 | 2 | 191 | 0.1 | 0.38 | <0.1 | 11.0 | 31 | 38.0 | 2.83 | 5 | 0.02 | 0.07 | 10 | 0.86 | 216 | 0.4 |
| 1160259 | Soil | 5.3 | <0.1 | 1.99 | 4.9 | 3 | 198 | 0.1 | 0.28 | 0.1 | 9.4 | 27 | 25.1 | 3.32 | 6 | 0.02 | 0.07 | 9 | 0.68 | 205 | 0.6 |
| 1160260 | Soil | 5.8 | 0.1 | 1.42 | 4.5 | 2 | 329 | 0.2 | 0.32 | 0.2 | 8.2 | 24 | 22.4 | 2.57 | 6 | 0.04 | 0.08 | 9 | 0.41 | 373 | 0.7 |
| 1160261 | Soil | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. |
| 1160263 | Soil | 5.6 | <0.1 | 1.62 | 4.0 | 2 | 181 | 0.1 | 0.27 | 0.1 | 5.9 | 27 | 20.8 | 2.01 | 5 | 0.05 | 0.05 | 9 | 0.54 | 130 | 0.4 |
| 1160264 | Soil | 2.9 | <0.1 | 2.10 | 5.2 | 2 | 244 | 0.1 | 0.38 | 0.2 | 12.9 | 33 | 45.2 | 3.16 | 6 | 0.03 | 0.11 | 11 | 1.00 | 204 | 0.4 |
| 1160265 | Soil | 4.7 | 0.3 | 1.85 | 2.9 | 2 | 246 | 0.1 | 0.37 | <0.1 | 8.9 | 28 | 55.8 | 2.60 | 6 | 0.05 | 0.08 | 9 | 0.72 | 193 | 0.4 |
| 1160266 | Soil | 4.8 | <0.1 | 1.83 | 4.9 | 4 | 158 | <0.1 | 0.45 | <0.1 | 14.1 | 35 | 44.2 | 3.62 | 5 | <0.01 | 0.11 | 8 | 0.92 | 353 | 0.7 |
| 1160267 | Soil | 4.9 | <0.1 | 1.96 | 5.9 | 2 | 250 | 0.1 | 0.38 | 0.1 | 12.0 | 33 | 39.4 | 3.33 | 5 | 0.02 | 0.09 | 10 | 0.83 | 345 | 0.6 |
| 1160268 | Soil | 3.7 | <0.1 | 2.06 | 5.4 | 1 | 256 | <0.1 | 0.41 | 0.1 | 12.4 | 39 | 39.6 | 3.33 | 6 | 0.02 | 0.15 | 11 | 1.06 | 305 | 0.8 |
| 1160262 | Soil | 1.8 | <0.1 | 1.46 | 3.7 | 3 | 220 | 0.1 | 0.37 | <0.1 | 9.5 | 25 | 11.3 | 2.12 | 5 | 0.08 | 0.09 | 9 | 0.52 | 337 | 0.8 |
| 1160269 | Soil | 4.0 | 0.2 | 2.43 | 3.9 | 1 | 200 | 0.1 | 0.42 | <0.1 | 13.6 | 40 | 38.2 | 3.60 | 7 | 0.03 | 0.09 | 11 | 1.13 | 357 | 0.9 |
| 1160270 | Soil | 4.5 | 0.2 | 2.43 | 5.2 | 2 | 251 | 0.1 | 0.36 | 0.1 | 12.9 | 39 | 42.0 | 3.76 | 7 | 0.04 | 0.12 | 10 | 1.08 | 303 | 0.8 |
| 1160271 | Soil | 5.0 | 0.1 | 2.10 | 6.1 | <1 | 224 | 0.1 | 0.31 | <0.1 | 11.6 | 32 | 31.5 | 3.61 | 7 | 0.05 | 0.11 | 13 | 0.89 | 224 | 0.7 |
| 1160272 | Soil | 2.2 | 0.1 | 2.07 | 7.3 | 1 | 242 | 0.1 | 0.32 | <0.1 | 12.9 | 32 | 38.0 | 3.43 | 7 | 0.04 | 0.12 | 13 | 0.94 | 274 | 0.9 |
| 1160273 | Soil | 2.7 | 0.3 | 1.68 | 1.5 | 2 | 275 | <0.1 | 0.39 | 0.2 | 8.6 | 35 | 42.4 | 2.26 | 6 | 0.05 | 0.30 | 9 | 0.96 | 174 | 0.5 |
| 1160274 | Soil | 3.8 | <0.1 | 2.04 | 5.8 | 2 | 172 | 0.1 | 0.29 | 0.1 | 15.7 | 40 | 36.7 | 3.29 | 6 | 0.02 | 0.12 | 7 | 0.99 | 455 | 1.1 |
| 1160277 | Soil | 5.4 | 0.2 | 2.06 | 5.7 | 2 | 261 | 0.1 | 0.44 | 0.1 | 14.8 | 40 | 54.8 | 3.13 | 6 | 0.03 | 0.14 | 8 | 1.03 | 482 | 0.8 |
| 1160276 | Soil | 4.1 | 0.2 | 1.95 | 4.1 | 2 | 253 | 0.1 | 0.31 | <0.1 | 11.5 | 41 | 46.2 | 2.66 | 6 | 0.04 | 0.14 | 9 | 0.97 | 229 | 0.6 |
| 1160275 | Soil | 2.3 | <0.1 | 1.98 | 4.0 | <1 | 174 | 0.1 | 0.38 | 0.1 | 14.1 | 35 | 27.0 | 3.23 | 7 | 0.03 | 0.09 | 7 | 0.99 | 344 | 0.6 |
| 1167833 | Soil | 5.6 | <0.1 | 1.87 | 4.8 | 1 | 195 | 0.1 | 0.39 | 0.1 | 14.1 | 35 | 49.0 | 2.78 | 5 | 0.04 | 0.06 | 8 | 0.96 | 313 | 0.5 |
| 1160278 | Soil | 4.8 | <0.1 | 1.56 | 5.1 | 1 | 208 | 0.1 | 0.44 | 0.1 | 11.9 | 31 | 39.1 | 2.61 | 5 | 0.02 | 0.07 | 9 | 0.80 | 319 | 0.6 |
| 1167835 | Soil | 5.6 | 0.1 | 1.57 | 4.5 | 2 | 203 | 0.2 | 0.23 | 0.2 | 8.9 | 27 | 34.2 | 2.48 | 6 | 0.03 | 0.06 | 8 | 0.66 | 264 | 0.7 |
| 1167836 | Soil | 4.2 | <0.1 | 1.63 | 5.7 | 2 | 398 | 0.1 | 0.34 | 0.1 | 13.2 | 25 | 23.4 | 3.10 | 6 | 0.02 | 0.10 | 9 | 0.63 | 430 | 0.8 |
| 1167834 | Soil | 5.3 | 0.1 | 1.66 | 4.2 | 2 | 214 | 0.1 | 0.40 | 0.2 | 11.5 | 31 | 44.9 | 2.52 | 5 | 0.03 | 0.06 | 9 | 0.77 | 288 | 0.6 |
| 1160525 | Soil | 1.4 | 0.1 | 2.05 | 5.8 | <1 | 359 | 0.2 | 0.28 | 0.1 | 12.6 | 29 | 42.4 | 3.22 | 7 | 0.02 | 0.15 | 9 | 0.71 | 295 | 0.8 |

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Report Date: September 03, 2011



# CERTIFICATE OF ANALYSIS DAW11000152.1

| | 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 |
| 1160254 | Soil | 0.014 | 18.2 | 0.031 | 7.6 | <0.05 | 0.5 | 2.9 | <0.5 | 14 | <0.2 | 1.9 | 0.098 | <0.1 | 0.4 | 79 | 0.1 | 46 |
| 1160255 | Soil | 0.013 | 16.0 | 0.060 | 7.9 | <0.05 | 0.3 | 3.0 | 0.6 | 18 | <0.2 | 2.7 | 0.088 | <0.1 | 0.6 | 62 | 0.1 | 52 |
| 1160256 | Soil | 0.028 | 20.2 | 0.069 | 5.5 | <0.05 | 0.2 | 5.6 | <0.5 | 24 | <0.2 | 1.5 | 0.066 | <0.1 | 0.6 | 65 | 0.1 | 46 |
| 1160257 | Soil | 0.020 | 20.9 | 0.065 | 6.2 | <0.05 | 0.2 | 4.7 | <0.5 | 23 | <0.2 | 1.8 | 0.097 | <0.1 | 0.5 | 71 | <0.1 | 55 |
| 1160258 | Soil | 0.020 | 20.4 | 0.056 | 6.9 | <0.05 | 0.3 | 4.3 | <0.5 | 21 | <0.2 | 2.4 | 0.105 | <0.1 | 0.6 | 65 | 0.1 | 57 |
| 1160259 | Soil | 0.015 | 15.9 | 0.050 | 8.0 | 0.05 | 0.2 | 4.5 | <0.5 | 18 | <0.2 | 1.6 | 0.065 | <0.1 | 0.6 | 74 | 0.1 | 60 |
| 1160260 | Soil | 0.015 | 12.4 | 0.057 | 18.0 | <0.05 | 0.2 | 4.9 | <0.5 | 20 | <0.2 | 1.1 | 0.043 | 0.1 | 0.6 | 56 | 0.1 | 71 |
| 1160261 | Soil | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. |
| 1160263 | Soil | 0.015 | 14.9 | 0.055 | 7.0 | 0.05 | 0.2 | 2.8 | <0.5 | 19 | <0.2 | 0.9 | 0.070 | <0.1 | 0.6 | 48 | <0.1 | 50 |
| 1160264 | Soil | 0.022 | 21.1 | 0.053 | 7.1 | <0.05 | 0.4 | 4.6 | <0.5 | 21 | <0.2 | 2.7 | 0.124 | <0.1 | 0.7 | 74 | <0.1 | 62 |
| 1160265 | Soil | 0.019 | 15.8 | 0.064 | 5.8 | 0.07 | 0.3 | 4.9 | <0.5 | 21 | <0.2 | 0.8 | 0.070 | <0.1 | 0.7 | 57 | 0.1 | 45 |
| 1160266 | Soil | 0.025 | 20.8 | 0.064 | 4.7 | <0.05 | 0.2 | 4.7 | <0.5 | 20 | <0.2 | 2.0 | 0.092 | <0.1 | 0.4 | 82 | <0.1 | 58 |
| 1160267 | Soil | 0.016 | 20.1 | 0.043 | 6.3 | <0.05 | 0.3 | 4.2 | <0.5 | 21 | <0.2 | 2.3 | 0.109 | <0.1 | 0.5 | 72 | <0.1 | 56 |
| 1160268 | Soil | 0.020 | 21.3 | 0.055 | 6.8 | <0.05 | 0.3 | 4.2 | <0.5 | 23 | <0.2 | 2.5 | 0.143 | <0.1 | 0.7 | 80 | <0.1 | 52 |
| 1160262 | Soil | 0.021 | 13.4 | 0.045 | 9.4 | <0.05 | 0.2 | 4.1 | <0.5 | 20 | <0.2 | 1.5 | 0.056 | 0.1 | 0.4 | 50 | <0.1 | 58 |
| 1160269 | Soil | 0.018 | 21.0 | 0.052 | 6.8 | <0.05 | 0.3 | 6.2 | <0.5 | 24 | <0.2 | 2.3 | 0.124 | <0.1 | 0.6 | 84 | 0.1 | 71 |
| 1160270 | Soil | 0.018 | 22.8 | 0.058 | 7.6 | <0.05 | 0.3 | 5.1 | <0.5 | 22 | <0.2 | 2.0 | 0.136 | 0.1 | 0.8 | 84 | 0.1 | 66 |
| 1160271 | Soil | 0.014 | 18.4 | 0.067 | 7.5 | <0.05 | 0.3 | 5.1 | <0.5 | 20 | <0.2 | 2.3 | 0.111 | 0.1 | 0.9 | 71 | <0.1 | 60 |
| 1160272 | Soil | 0.014 | 18.9 | 0.089 | 8.4 | <0.05 | 0.3 | 5.0 | <0.5 | 21 | <0.2 | 2.5 | 0.114 | 0.1 | 0.9 | 75 | 0.1 | 63 |
| 1160273 | Soil | 0.018 | 14.9 | 0.081 | 6.0 | 0.08 | 0.2 | 4.5 | 0.6 | 23 | <0.2 | 1.0 | 0.099 | <0.1 | 0.8 | 53 | <0.1 | 56 |
| 1160274 | Soil | 0.016 | 20.1 | 0.050 | 7.2 | <0.05 | 0.3 | 4.1 | <0.5 | 18 | <0.2 | 2.0 | 0.105 | <0.1 | 0.5 | 86 | 0.1 | 67 |
| 1160277 | Soil | 0.018 | 21.3 | 0.059 | 6.9 | <0.05 | 0.3 | 5.0 | <0.5 | 24 | <0.2 | 1.9 | 0.115 | <0.1 | 0.7 | 87 | 0.1 | 59 |
| 1160276 | Soil | 0.017 | 19.2 | 0.048 | 6.8 | <0.05 | 0.2 | 4.6 | 0.5 | 21 | <0.2 | 1.7 | 0.108 | <0.1 | 0.9 | 76 | <0.1 | 54 |
| 1160275 | Soil | 0.016 | 17.0 | 0.058 | 6.7 | <0.05 | 0.2 | 5.4 | <0.5 | 20 | <0.2 | 1.7 | 0.103 | <0.1 | 0.5 | 85 | 0.1 | 65 |
| 1167833 | Soil | 0.022 | 20.6 | 0.057 | 7.1 | <0.05 | 0.3 | 4.3 | <0.5 | 22 | <0.2 | 2.2 | 0.107 | <0.1 | 0.5 | 76 | 0.1 | 59 |
| 1160278 | Soil | 0.020 | 19.3 | 0.070 | 5.6 | <0.05 | 0.3 | 3.6 | <0.5 | 23 | <0.2 | 2.2 | 0.102 | <0.1 | 0.5 | 66 | 0.1 | 57 |
| 1167835 | Soil | 0.014 | 14.6 | 0.047 | 8.0 | 0.05 | 0.2 | 3.8 | <0.5 | 19 | <0.2 | 0.8 | 0.063 | <0.1 | 0.5 | 69 | <0.1 | 71 |
| 1167836 | Soil | 0.019 | 15.4 | 0.044 | 8.8 | <0.05 | 0.2 | 5.4 | <0.5 | 21 | <0.2 | 2.1 | 0.080 | 0.1 | 0.5 | 85 | 0.1 | 70 |
| 1167834 | Soil | 0.020 | 18.5 | 0.055 | 7.0 | <0.05 | 0.3 | 4.1 | <0.5 | 24 | <0.2 | 1.8 | 0.090 | <0.1 | 0.6 | 66 | 0.1 | 55 |
| 1160525 | Soil | 0.019 | 15.9 | 0.043 | 9.7 | <0.05 | 0.3 | 4.3 | <0.5 | 20 | <0.2 | 2.9 | 0.132 | 0.1 | 0.7 | 88 | <0.1 | 66 |

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: September 03, 2011



# CERTIFICATE OF ANALYSIS DAW11000152.1

| | 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 |
| 1160526 | Soil | 2.3 | <0.1 | 1.99 | 6.8 | 1 | 303 | 0.1 | 0.30 | 0.1 | 14.7 | 29 | 50.5 | 3.20 | 6 | 0.02 | 0.10 | 8 | 0.68 | 351 | 0.7 |
| 1167530 | Soil | 2.4 | 0.2 | 1.58 | 5.2 | 2 | 142 | 0.1 | 0.33 | 0.1 | 22.9 | 50 | 59.9 | 2.93 | 5 | 0.02 | 0.06 | 6 | 0.65 | 471 | 0.9 |
| 1167529 | Soil | 1.8 | <0.1 | 1.48 | 4.9 | 1 | 128 | 0.1 | 0.33 | 0.1 | 22.3 | 33 | 51.4 | 2.77 | 5 | 0.02 | 0.05 | 6 | 0.56 | 593 | 0.9 |
| 1167527 | Soil | 1.9 | 0.3 | 1.46 | 9.9 | 2 | 141 | 0.1 | 0.58 | 0.1 | 21.2 | 43 | 89.7 | 2.66 | 5 | 0.06 | 0.03 | 6 | 0.62 | 222 | 1.1 |
| 1167528 | Soil | 1.9 | 0.1 | 1.49 | 5.2 | 1 | 152 | 0.1 | 0.36 | 0.2 | 14.4 | 39 | 41.4 | 2.59 | 5 | 0.04 | 0.04 | 7 | 0.52 | 346 | 0.7 |
| 1167526 | Soil | 2.2 | <0.1 | 3.20 | 5.7 | 2 | 283 | <0.1 | 0.70 | <0.1 | 23.1 | 48 | 45.2 | 5.47 | 11 | 0.04 | 0.06 | 12 | 2.05 | 638 | 0.5 |
| 1167525 | Soil | 5.1 | 0.2 | 1.81 | 4.0 | 3 | 313 | 0.1 | 1.25 | 0.1 | 12.5 | 30 | 43.3 | 2.71 | 5 | 0.04 | 0.06 | 10 | 0.92 | 398 | 0.5 |
| 1167533 | Soil | 1.1 | <0.1 | 1.39 | 3.7 | 1 | 213 | 0.1 | 0.26 | <0.1 | 7.9 | 25 | 31.3 | 2.13 | 6 | 0.04 | 0.05 | 7 | 0.49 | 172 | 0.6 |
| 1167531 | Soil | 2.4 | <0.1 | 1.73 | 5.6 | 2 | 197 | 0.1 | 0.40 | 0.2 | 15.7 | 33 | 41.9 | 3.02 | 6 | 0.02 | 0.06 | 7 | 0.63 | 353 | 0.7 |
| 1167532 | Soil | 1.1 | 0.1 | 1.78 | 5.0 | 2 | 317 | 0.1 | 0.48 | 0.1 | 15.7 | 29 | 57.7 | 3.03 | 6 | 0.03 | 0.08 | 7 | 0.63 | 374 | 0.8 |
| 1160521 | Soil | 2.4 | 0.1 | 1.57 | 4.3 | 1 | 387 | 0.1 | 0.27 | 0.2 | 8.4 | 24 | 33.7 | 2.32 | 6 | 0.04 | 0.05 | 8 | 0.52 | 176 | 0.7 |
| 1160523 | Soil | 7.3 | 0.1 | 1.87 | 5.9 | 2 | 181 | 0.2 | 0.24 | 0.2 | 9.0 | 30 | 32.6 | 2.94 | 6 | 0.04 | 0.09 | 9 | 0.79 | 244 | 1.1 |
| 1160522 | Soil | 5.8 | <0.1 | 1.39 | 4.5 | 1 | 234 | <0.1 | 0.33 | 0.1 | 12.2 | 23 | 27.8 | 2.88 | 5 | 0.02 | 0.12 | 8 | 0.71 | 337 | 0.6 |
| 1160524 | Soil | 1.8 | <0.1 | 1.55 | 4.3 | 1 | 520 | <0.1 | 0.30 | 0.1 | 10.7 | 23 | 30.6 | 2.69 | 5 | 0.02 | 0.11 | 9 | 0.64 | 325 | 0.6 |
| 1160535 | Soil | 3.2 | 0.1 | 1.81 | 5.5 | <1 | 294 | 0.1 | 0.66 | 0.2 | 12.7 | 31 | 40.5 | 2.90 | 6 | 0.04 | 0.20 | 12 | 0.84 | 363 | 0.6 |
| 1160529 | Soil | 2.2 | <0.1 | 1.64 | 6.0 | 1 | 176 | 0.1 | 0.30 | 0.1 | 13.5 | 31 | 33.0 | 3.12 | 6 | 0.02 | 0.06 | 7 | 0.61 | 272 | 0.8 |
| 1160527 | Soil | 1.6 | <0.1 | 2.08 | 8.4 | 2 | 228 | 0.2 | 0.28 | 0.2 | 15.4 | 30 | 35.5 | 3.68 | 8 | 0.02 | 0.12 | 9 | 0.74 | 426 | 0.8 |
| 1160530 | Soil | 1.4 | <0.1 | 1.38 | 6.4 | 1 | 138 | <0.1 | 0.33 | 0.1 | 20.2 | 48 | 55.5 | 2.53 | 5 | 0.12 | 0.05 | 5 | 0.49 | 443 | 0.8 |
| 1160534 | Soil | 2.0 | <0.1 | 1.66 | 4.9 | 2 | 250 | <0.1 | 0.51 | 0.2 | 13.3 | 29 | 33.3 | 2.83 | 5 | 0.03 | 0.09 | 12 | 0.88 | 350 | 0.5 |
| 1160531 | Soil | 2.1 | 0.2 | 1.47 | 3.9 | 1 | 206 | 0.1 | 0.30 | 0.3 | 12.5 | 46 | 61.1 | 2.14 | 5 | 0.05 | 0.04 | 7 | 0.42 | 289 | 0.7 |
| 1160528 | Soil | 2.0 | 0.1 | 1.59 | 4.1 | 3 | 293 | 0.1 | 0.26 | 0.4 | 8.6 | 20 | 30.7 | 2.40 | 6 | 0.03 | 0.09 | 12 | 0.48 | 220 | 0.6 |
| 1160532 | Soil | 2.2 | 0.2 | 2.13 | 4.9 | 2 | 169 | 0.1 | 0.68 | 0.2 | 23.7 | 39 | 55.4 | 3.97 | 7 | 0.04 | 0.03 | 8 | 1.11 | 778 | 0.6 |
| 1160533 | Soil | 5.8 | <0.1 | 1.65 | 4.4 | 1 | 241 | <0.1 | 0.49 | 0.2 | 13.1 | 30 | 33.4 | 2.76 | 6 | 0.03 | 0.09 | 12 | 0.87 | 343 | 0.5 |

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Project: TSL
Report Date: September 03, 2011



# CERTIFICATE OF ANALYSIS DAW11000152.1

| | 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 |
| 1160526 | Soil | 0.020 | 20.5 | 0.050 | 8.2 | <0.05 | 0.4 | 4.3 | <0.5 | 19 | <0.2 | 2.5 | 0.106 | 0.1 | 0.6 | 84 | <0.1 | 64 |
| 1167530 | Soil | 0.026 | 26.2 | 0.052 | 6.6 | <0.05 | 0.2 | 4.4 | <0.5 | 19 | <0.2 | 1.5 | 0.082 | <0.1 | 0.5 | 78 | <0.1 | 59 |
| 1167529 | Soil | 0.026 | 19.0 | 0.049 | 7.6 | <0.05 | 0.2 | 3.9 | <0.5 | 17 | <0.2 | 1.5 | 0.075 | <0.1 | 0.4 | 75 | <0.1 | 58 |
| 1167527 | Soil | 0.026 | 28.9 | 0.043 | 6.3 | <0.05 | 0.3 | 5.1 | 0.6 | 29 | <0.2 | 1.0 | 0.062 | <0.1 | 1.3 | 66 | <0.1 | 38 |
| 1167528 | Soil | 0.026 | 19.6 | 0.056 | 6.4 | <0.05 | 0.2 | 4.1 | <0.5 | 20 | <0.2 | 1.1 | 0.065 | <0.1 | 0.5 | 71 | <0.1 | 53 |
| 1167526 | Soil | 0.017 | 25.4 | 0.049 | 8.1 | <0.05 | 0.4 | 15.6 | <0.5 | 39 | <0.2 | 2.2 | 0.095 | <0.1 | 0.6 | 145 | <0.1 | 81 |
| 1167525 | Soil | 0.031 | 19.8 | 0.062 | 9.2 | 0.07 | 0.4 | 6.9 | 0.8 | 47 | <0.2 | 1.5 | 0.058 | <0.1 | 0.7 | 72 | 0.1 | 62 |
| 1167533 | Soil | 0.020 | 13.4 | 0.038 | 7.4 | <0.05 | 0.2 | 3.0 | 0.5 | 19 | <0.2 | 0.9 | 0.082 | <0.1 | 0.5 | 56 | <0.1 | 46 |
| 1167531 | Soil | 0.027 | 21.9 | 0.050 | 9.1 | <0.05 | 0.2 | 4.2 | <0.5 | 22 | <0.2 | 1.9 | 0.099 | <0.1 | 0.5 | 81 | <0.1 | 63 |
| 1167532 | Soil | 0.028 | 20.3 | 0.049 | 8.2 | <0.05 | 0.3 | 4.6 | <0.5 | 23 | <0.2 | 1.1 | 0.094 | <0.1 | 0.4 | 88 | <0.1 | 59 |
| 1160521 | Soil | 0.022 | 12.9 | 0.055 | 8.9 | <0.05 | 0.2 | 3.6 | 0.6 | 22 | <0.2 | 0.9 | 0.089 | <0.1 | 0.6 | 60 | 0.1 | 53 |
| 1160523 | Soil | 0.018 | 16.6 | 0.059 | 7.8 | 0.07 | 0.3 | 4.5 | 0.8 | 21 | <0.2 | 1.6 | 0.084 | <0.1 | 0.7 | 76 | <0.1 | 72 |
| 1160522 | Soil | 0.023 | 14.2 | 0.058 | 6.9 | <0.05 | 0.3 | 4.5 | <0.5 | 19 | <0.2 | 2.2 | 0.093 | <0.1 | 0.5 | 76 | <0.1 | 63 |
| 1160524 | Soil | 0.021 | 13.8 | 0.047 | 7.1 | <0.05 | 0.3 | 4.1 | <0.5 | 21 | <0.2 | 2.0 | 0.093 | <0.1 | 0.5 | 69 | <0.1 | 60 |
| 1160535 | Soil | 0.025 | 22.3 | 0.065 | 8.0 | <0.05 | 0.4 | 4.9 | 0.7 | 39 | <0.2 | 2.6 | 0.124 | <0.1 | 1.0 | 74 | 0.1 | 78 |
| 1160529 | Soil | 0.024 | 21.0 | 0.044 | 9.2 | <0.05 | 0.3 | 4.2 | <0.5 | 16 | <0.2 | 2.0 | 0.101 | <0.1 | 0.4 | 83 | <0.1 | 66 |
| 1160527 | Soil | 0.021 | 18.2 | 0.047 | 19.9 | <0.05 | 0.3 | 4.8 | <0.5 | 17 | <0.2 | 3.4 | 0.123 | 0.1 | 0.5 | 98 | <0.1 | 86 |
| 1160530 | Soil | 0.023 | 23.7 | 0.055 | 5.3 | <0.05 | 0.2 | 4.8 | <0.5 | 17 | <0.2 | 1.1 | 0.069 | 0.3 | 0.3 | 72 | <0.1 | 51 |
| 1160534 | Soil | 0.023 | 17.4 | 0.066 | 8.5 | <0.05 | 0.3 | 5.2 | <0.5 | 32 | <0.2 | 2.6 | 0.080 | <0.1 | 0.9 | 72 | 0.1 | 71 |
| 1160531 | Soil | 0.018 | 20.2 | 0.072 | 6.6 | <0.05 | 0.2 | 3.5 | <0.5 | 21 | <0.2 | 0.2 | 0.039 | <0.1 | 0.7 | 56 | <0.1 | 50 |
| 1160528 | Soil | 0.021 | 13.0 | 0.031 | 11.3 | <0.05 | 0.2 | 5.0 | 0.5 | 20 | <0.2 | 1.6 | 0.084 | <0.1 | 0.6 | 67 | <0.1 | 57 |
| 1160532 | Soil | 0.025 | 21.2 | 0.065 | 8.8 | <0.05 | 0.3 | 9.9 | <0.5 | 64 | <0.2 | 0.6 | 0.071 | <0.1 | 0.8 | 119 | <0.1 | 72 |
| 1160533 | Soil | 0.023 | 16.7 | 0.069 | 8.7 | <0.05 | 0.3 | 5.1 | 0.7 | 31 | <0.2 | 2.6 | 0.082 | <0.1 | 0.9 | 69 | 0.1 | 73 |

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Project: TSL
Report Date: September 03, 2011



# QUALITY CONTROL REPORT DAW11000152.1

| | 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 | | | | | | | | | | | | | | | | | | | | | |
| 1167873 | Soil | 1.5 | <0.1 | 2.51 | 3.7 | <1 | 142 | <0.1 | 0.29 | <0.1 | 20.5 | 55 | 78.9 | 3.04 | 7 | <0.01 | 0.25 | 3 | 1.62 | 293 | 0.5 |
| REP 1167873 | QC | 2.9 | <0.1 | 2.44 | 3.7 | <1 | 140 | <0.1 | 0.29 | <0.1 | 19.7 | 54 | 76.8 | 3.01 | 6 | 0.02 | 0.25 | 3 | 1.60 | 283 | 0.5 |
| 1167863 | Soil | 4.7 | 0.1 | 1.70 | 4.7 | <1 | 199 | 0.1 | 0.33 | 0.1 | 13.7 | 28 | 30.4 | 2.68 | 6 | 0.03 | 0.06 | 8 | 0.80 | 489 | 0.6 |
| REP 1167863 | QC | 8.8 | 0.1 | 1.62 | 4.6 | <1 | 197 | 0.1 | 0.32 | 0.2 | 13.5 | 27 | 29.6 | 2.63 | 6 | 0.04 | 0.06 | 8 | 0.79 | 479 | 0.6 |
| 1167814 | Soil | 2.3 | 0.1 | 1.74 | 3.3 | <1 | 152 | <0.1 | 0.25 | <0.1 | 8.2 | 28 | 23.6 | 2.40 | 6 | 0.02 | 0.16 | 6 | 0.99 | 207 | 0.6 |
| REP 1167814 | QC | 1.4 | 0.1 | 1.68 | 3.2 | <1 | 149 | <0.1 | 0.24 | <0.1 | 8.3 | 27 | 24.1 | 2.45 | 6 | 0.04 | 0.14 | 6 | 0.97 | 211 | 0.6 |
| 1161062 | Soil | 2.5 | 0.2 | 1.46 | 2.9 | <1 | 319 | <0.1 | 1.24 | 0.3 | 12.3 | 28 | 141.5 | 2.76 | 5 | 0.05 | 0.04 | 8 | 0.47 | 525 | 0.9 |
| REP 1161062 | QC | 3.4 | 0.2 | 1.57 | 3.0 | <1 | 341 | <0.1 | 1.26 | 0.3 | 12.6 | 29 | 140.6 | 2.95 | 5 | 0.04 | 0.05 | 9 | 0.50 | 544 | 0.9 |
| 1160279 | Soil | 4.5 | 0.2 | 1.66 | 8.1 | 2 | 233 | 0.2 | 0.52 | 0.3 | 12.1 | 28 | 38.9 | 3.31 | 5 | 0.02 | 0.12 | 13 | 0.79 | 349 | 0.8 |
| REP 1160279 | QC | 5.0 | 0.2 | 1.64 | 8.5 | 3 | 230 | 0.2 | 0.54 | 0.3 | 11.9 | 28 | 38.1 | 3.28 | 5 | 0.02 | 0.12 | 13 | 0.73 | 336 | 0.8 |
| 1160264 | Soil | 2.9 | <0.1 | 2.10 | 5.2 | 2 | 244 | 0.1 | 0.38 | 0.2 | 12.9 | 33 | 45.2 | 3.16 | 6 | 0.03 | 0.11 | 11 | 1.00 | 204 | 0.4 |
| REP 1160264 | QC | 4.7 | <0.1 | 2.06 | 4.8 | 2 | 238 | 0.2 | 0.38 | 0.2 | 12.1 | 32 | 45.1 | 3.14 | 5 | 0.03 | 0.10 | 11 | 1.02 | 198 | 0.3 |
| 1160525 | Soil | 1.4 | 0.1 | 2.05 | 5.8 | <1 | 359 | 0.2 | 0.28 | 0.1 | 12.6 | 29 | 42.4 | 3.22 | 7 | 0.02 | 0.15 | 9 | 0.71 | 295 | 0.8 |
| REP 1160525 | QC | 3.9 | 0.1 | 2.07 | 5.9 | 2 | 357 | 0.2 | 0.27 | 0.1 | 12.3 | 28 | 42.6 | 3.16 | 7 | 0.02 | 0.14 | 9 | 0.71 | 286 | 0.7 |
| 1160535 | Soil | 3.2 | 0.1 | 1.81 | 5.5 | <1 | 294 | 0.1 | 0.66 | 0.2 | 12.7 | 31 | 40.5 | 2.90 | 6 | 0.04 | 0.20 | 12 | 0.84 | 363 | 0.6 |
| REP 1160535 | QC | 2.5 | 0.1 | 1.82 | 5.4 | <1 | 294 | 0.1 | 0.66 | 0.2 | 12.7 | 31 | 38.1 | 2.87 | 6 | 0.05 | 0.20 | 12 | 0.84 | 357 | 0.5 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS8 | Standard | 116.8 | 1.7 | 0.89 | 23.9 | 2 | 266 | 6.6 | 0.68 | 2.1 | 7.6 | 119 | 111.4 | 2.38 | 5 | 0.21 | 0.40 | 16 | 0.61 | 600 | 13.6 |
| STD DS8 | Standard | 108.1 | 1.7 | 0.90 | 26.1 | 3 | 282 | 7.1 | 0.68 | 2.6 | 7.6 | 111 | 110.4 | 2.36 | 5 | 0.20 | 0.41 | 16 | 0.61 | 603 | 13.0 |
| STD DS8 | Standard | 97.6 | 1.8 | 0.90 | 22.7 | 3 | 272 | 5.9 | 0.66 | 2.3 | 6.6 | 108 | 99.9 | 2.49 | 4 | 0.18 | 0.38 | 16 | 0.54 | 566 | 12.2 |
| STD DS8 | Standard | 119.4 | 1.8 | 0.90 | 22.6 | 3 | 258 | 5.7 | 0.68 | 2.0 | 7.0 | 112 | 96.9 | 2.54 | 5 | 0.18 | 0.41 | 13 | 0.64 | 617 | 12.4 |
| 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 |

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: September 03, 2011



# QUALITY CONTROL REPORT DAW11000152.1

| | 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 | | | | | | | | | | | | | | | | | | |
| 1167873 | Soil | 0.019 | 25.4 | 0.032 | 4.0 | <0.05 | 0.2 | 3.0 | <0.5 | 16 | <0.2 | 1.0 | 0.180 | <0.1 | 0.2 | 98 | <0.1 | 47 |
| REP 1167873 | QC | 0.018 | 25.2 | 0.031 | 3.8 | <0.05 | 0.2 | 2.9 | <0.5 | 15 | <0.2 | 0.9 | 0.178 | <0.1 | 0.2 | 96 | <0.1 | 44 |
| 1167863 | Soil | 0.016 | 15.6 | 0.047 | 6.8 | <0.05 | 0.2 | 4.2 | <0.5 | 20 | <0.2 | 1.6 | 0.086 | <0.1 | 0.5 | 71 | 0.1 | 70 |
| REP 1167863 | QC | 0.015 | 15.6 | 0.046 | 6.9 | <0.05 | 0.2 | 4.1 | <0.5 | 20 | <0.2 | 1.6 | 0.084 | <0.1 | 0.5 | 70 | <0.1 | 68 |
| 1167814 | Soil | 0.014 | 14.1 | 0.039 | 6.6 | <0.05 | 0.1 | 2.6 | <0.5 | 16 | <0.2 | 0.9 | 0.114 | <0.1 | 0.4 | 67 | <0.1 | 54 |
| REP 1167814 | QC | 0.015 | 13.8 | 0.038 | 6.1 | <0.05 | 0.1 | 2.5 | <0.5 | 16 | <0.2 | 0.9 | 0.114 | <0.1 | 0.4 | 67 | 0.1 | 56 |
| 1161062 | Soil | 0.022 | 27.5 | 0.060 | 6.0 | 0.06 | 0.3 | 4.2 | 0.5 | 34 | <0.2 | 0.8 | 0.036 | <0.1 | 0.7 | 67 | <0.1 | 37 |
| REP 1161062 | QC | 0.024 | 27.4 | 0.063 | 6.3 | <0.05 | 0.3 | 4.5 | 0.6 | 35 | <0.2 | 0.9 | 0.050 | <0.1 | 0.7 | 65 | <0.1 | 40 |
| 1160279 | Soil | 0.031 | 19.7 | 0.071 | 14.6 | 0.11 | 0.4 | 5.0 | 1.0 | 33 | <0.2 | 3.2 | 0.096 | 0.1 | 0.9 | 68 | 0.1 | 141 |
| REP 1160279 | QC | 0.030 | 20.2 | 0.069 | 14.2 | 0.09 | 0.3 | 5.0 | 1.0 | 33 | <0.2 | 3.0 | 0.098 | 0.1 | 0.8 | 64 | 0.1 | 135 |
| 1160264 | Soil | 0.022 | 21.1 | 0.053 | 7.1 | <0.05 | 0.4 | 4.6 | <0.5 | 21 | <0.2 | 2.7 | 0.124 | <0.1 | 0.7 | 74 | <0.1 | 62 |
| REP 1160264 | QC | 0.022 | 20.9 | 0.055 | 6.6 | <0.05 | 0.4 | 4.5 | 0.7 | 21 | <0.2 | 2.7 | 0.125 | 0.1 | 0.7 | 74 | <0.1 | 63 |
| 1160525 | Soil | 0.019 | 15.9 | 0.043 | 9.7 | <0.05 | 0.3 | 4.3 | <0.5 | 20 | <0.2 | 2.9 | 0.132 | 0.1 | 0.7 | 88 | <0.1 | 66 |
| REP 1160525 | QC | 0.019 | 15.4 | 0.043 | 9.7 | <0.05 | 0.3 | 4.1 | <0.5 | 19 | <0.2 | 2.8 | 0.127 | 0.1 | 0.7 | 85 | <0.1 | 66 |
| 1160535 | Soil | 0.025 | 22.3 | 0.065 | 8.0 | <0.05 | 0.4 | 4.9 | 0.7 | 39 | <0.2 | 2.6 | 0.124 | <0.1 | 1.0 | 74 | 0.1 | 78 |
| REP 1160535 | QC | 0.024 | 20.9 | 0.065 | 7.6 | <0.05 | 0.5 | 4.8 | 0.6 | 39 | <0.2 | 2.6 | 0.126 | <0.1 | 1.0 | 73 | 0.1 | 77 |
| Reference Materials | | | | | | | | | | | | | | | | | | |
| STD DS8 | Standard | 0.084 | 38.6 | 0.078 | 125.8 | 0.16 | 5.2 | 2.0 | 5.0 | 65 | 4.8 | 7.2 | 0.121 | 5.3 | 2.9 | 42 | 3.1 | 309 |
| STD DS8 | Standard | 0.083 | 37.6 | 0.086 | 127.6 | 0.16 | 5.8 | 2.1 | 5.2 | 63 | 4.7 | 7.4 | 0.114 | 5.6 | 2.9 | 42 | 3.0 | 307 |
| STD DS8 | Standard | 0.091 | 35.5 | 0.074 | 120.2 | 0.16 | 4.6 | 2.3 | 4.1 | 64 | 4.6 | 6.7 | 0.108 | 5.2 | 2.6 | 38 | 2.8 | 298 |
| STD DS8 | Standard | 0.083 | 38.0 | 0.076 | 115.4 | 0.14 | 4.9 | 1.8 | 5.2 | 61 | 5.1 | 5.4 | 0.108 | 5.5 | 2.3 | 36 | 3.1 | 308 |
| 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.