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 06, 2011
Report Date: August 24, 2011


# CERTIFICATE OF ANALYSIS DAW11000161.1

## CLIENT JOB INFORMATION

Project: TSL
Shipment ID: TSL2011-06
P.O. Number
Number of Samples: 282

## SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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 | 282 | Dry at 60C sieve 100g to -80 mesh | | | WHI |
| Dry at 60C | 282 | Dry at 60C | | | WHI |
| 1DX2 | 281 | 1:1:1 Aqua Regia digestion ICP-MS analysis | 15 | Completed | VAN |

## ADDITIONAL COMMENTS

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

CC: Jean-Pierre Londero

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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

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Project: TSL
Report Date: August 24, 2011



# CERTIFICATE OF ANALYSIS DAW11000161.1

| | 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 |
| 1089087 | Soil | 5.4 | <0.1 | 2.46 | 7.9 | 1 | 185 | 0.2 | 0.36 | 0.3 | 9.9 | 37 | 16.4 | 3.35 | 7 | 0.02 | 0.05 | 9 | 0.52 | 386 | 1.1 |
| 1089084 | Soil | 6.3 | 0.3 | 2.38 | 4.6 | 2 | 330 | <0.1 | 0.60 | <0.1 | 31.1 | 33 | 46.0 | 3.86 | 7 | 0.08 | 0.25 | 8 | 1.14 | 1602 | 1.1 |
| 1089085 | Soil | 5.8 | 0.1 | 1.63 | 10.7 | 2 | 298 | <0.1 | 0.53 | <0.1 | 11.4 | 29 | 34.5 | 2.68 | 5 | 0.04 | 0.12 | 12 | 0.77 | 435 | 0.8 |
| 1089082 | Soil | 5.8 | <0.1 | 2.11 | 8.5 | 1 | 218 | 0.1 | 0.31 | <0.1 | 10.9 | 35 | 24.9 | 3.07 | 6 | 0.03 | 0.06 | 9 | 0.68 | 340 | 0.8 |
| 1089080 | Soil | 3.4 | <0.1 | 2.25 | 4.8 | <1 | 190 | <0.1 | 0.44 | <0.1 | 21.4 | 55 | 83.6 | 2.93 | 6 | 0.02 | 0.18 | 4 | 1.47 | 406 | 0.5 |
| 1089081 | Soil | 2.7 | <0.1 | 2.04 | 6.5 | 2 | 302 | 0.1 | 0.30 | <0.1 | 12.6 | 31 | 32.7 | 3.38 | 7 | 0.01 | 0.13 | 9 | 0.95 | 433 | 0.9 |
| 1089083 | Soil | 5.6 | 0.2 | 2.32 | 5.7 | <1 | 302 | <0.1 | 0.52 | <0.1 | 14.7 | 31 | 44.0 | 3.52 | 7 | 0.04 | 0.06 | 12 | 1.00 | 452 | 0.6 |
| 1089079 | Soil | 0.9 | 0.1 | 2.10 | 6.0 | 1 | 214 | 0.1 | 0.41 | <0.1 | 15.7 | 83 | 35.3 | 3.37 | 6 | 0.01 | 0.07 | 7 | 1.06 | 474 | 0.8 |
| 1089078 | Soil | 0.6 | <0.1 | 3.24 | 1.3 | <1 | 346 | <0.1 | 0.65 | <0.1 | 22.1 | 36 | 53.8 | 4.07 | 8 | 0.01 | 1.51 | 2 | 2.63 | 752 | 0.3 |
| 1089077 | Soil | 0.9 | <0.1 | 4.13 | 4.4 | 1 | 714 | <0.1 | 0.69 | <0.1 | 24.7 | 27 | 61.2 | 6.84 | 14 | 0.01 | 1.48 | 11 | 2.86 | 1147 | 0.7 |
| 1089076 | Soil | 1.7 | <0.1 | 4.08 | 4.1 | 2 | 715 | <0.1 | 0.69 | <0.1 | 24.9 | 27 | 62.2 | 6.87 | 14 | <0.01 | 1.45 | 11 | 2.76 | 1113 | 0.8 |
| 1089074 | Soil | 2.5 | 0.3 | 1.66 | 4.7 | <1 | 143 | 0.2 | 0.33 | <0.1 | 9.1 | 23 | 38.6 | 3.06 | 8 | 0.04 | 0.07 | 8 | 0.60 | 333 | 0.9 |
| 1089075 | Soil | 1.9 | 0.1 | 2.08 | 8.2 | 2 | 201 | 0.2 | 0.27 | <0.1 | 11.8 | 35 | 46.7 | 3.05 | 7 | 0.02 | 0.06 | 11 | 0.75 | 334 | 1.0 |
| 1089071 | Soil | 6.2 | 0.1 | 1.61 | 6.4 | 2 | 202 | 0.2 | 0.25 | <0.1 | 9.7 | 44 | 31.8 | 2.48 | 6 | 0.04 | 0.08 | 10 | 0.59 | 256 | 0.7 |
| 1089070 | Soil | 2.5 | 0.1 | 1.65 | 4.6 | 2 | 249 | 0.1 | 0.36 | 0.1 | 11.7 | 26 | 78.8 | 2.62 | 7 | 0.04 | 0.15 | 10 | 0.75 | 198 | 0.7 |
| 1089073 | Soil | 1.2 | <0.1 | 2.56 | 6.1 | <1 | 177 | <0.1 | 0.37 | <0.1 | 18.6 | 39 | 81.9 | 3.85 | 7 | 0.02 | 0.09 | 6 | 1.00 | 472 | 0.5 |
| 1089069 | Soil | 2.0 | 0.2 | 2.21 | 5.4 | 2 | 238 | 0.2 | 0.35 | 0.1 | 12.0 | 35 | 64.4 | 3.08 | 7 | 0.03 | 0.22 | 12 | 0.97 | 225 | 0.6 |
| 1089067 | Soil | 4.5 | 0.2 | 2.12 | 4.5 | <1 | 246 | 0.1 | 0.37 | 0.1 | 13.3 | 33 | 57.7 | 3.01 | 7 | 0.04 | 0.24 | 12 | 1.05 | 292 | 0.4 |
| 1089072 | Soil | <0.5 | <0.1 | 1.20 | 2.6 | 2 | 102 | 0.1 | 0.19 | <0.1 | 7.6 | 11 | 17.8 | 2.65 | 8 | 0.02 | 0.13 | 9 | 0.52 | 139 | 0.7 |
| 1089086 | Soil | 3.5 | 0.1 | 1.92 | 8.5 | 2 | 395 | 0.1 | 0.50 | <0.1 | 12.9 | 36 | 42.9 | 2.96 | 6 | 0.03 | 0.14 | 12 | 0.88 | 426 | 0.8 |
| 1089068 | Soil | 3.8 | 0.2 | 2.18 | 5.1 | 2 | 242 | 0.1 | 0.31 | <0.1 | 9.4 | 31 | 34.8 | 3.01 | 7 | 0.05 | 0.24 | 10 | 0.95 | 214 | 0.6 |
| 1089066 | Soil | 6.1 | <0.1 | 1.70 | 5.2 | 1 | 221 | <0.1 | 0.39 | 0.1 | 13.1 | 24 | 27.6 | 3.07 | 7 | 0.02 | 0.27 | 8 | 1.08 | 425 | 0.6 |
| 1089065 | Soil | 1.3 | <0.1 | 1.93 | 5.0 | 1 | 241 | <0.1 | 0.46 | 0.1 | 13.4 | 29 | 40.9 | 3.08 | 6 | 0.03 | 0.21 | 10 | 1.05 | 431 | 0.7 |
| 1089064 | Soil | 15.2 | <0.1 | 1.74 | 6.6 | 1 | 211 | <0.1 | 0.38 | 0.1 | 21.8 | 25 | 25.0 | 3.44 | 7 | 0.01 | 0.25 | 7 | 1.05 | 1117 | 1.0 |
| 1089063 | Soil | 2.9 | 0.2 | 2.08 | 3.6 | 2 | 251 | 0.1 | 0.35 | <0.1 | 12.9 | 27 | 34.0 | 2.65 | 7 | 0.06 | 0.09 | 9 | 0.81 | 428 | 0.7 |
| 1089062 | Soil | 1.9 | 0.1 | 1.72 | 4.8 | 2 | 186 | <0.1 | 0.39 | <0.1 | 10.3 | 25 | 33.1 | 2.64 | 6 | 0.02 | 0.14 | 8 | 0.84 | 245 | 0.6 |
| 1089061 | Soil | 5.8 | 0.2 | 2.20 | 8.5 | 2 | 234 | <0.1 | 0.45 | <0.1 | 14.6 | 29 | 59.2 | 3.30 | 7 | 0.02 | 0.17 | 8 | 0.99 | 467 | 0.7 |
| 1162154 | Soil | <0.5 | <0.1 | 2.69 | 4.0 | 2 | 331 | <0.1 | 0.36 | 0.1 | 17.2 | 28 | 54.2 | 4.39 | 8 | 0.01 | 0.45 | 8 | 1.63 | 423 | 1.1 |
| 1162157 | Soil | 3.1 | <0.1 | 2.02 | 6.0 | 2 | 384 | 0.1 | 0.30 | <0.1 | 13.7 | 23 | 38.5 | 3.71 | 8 | 0.03 | 0.19 | 7 | 0.74 | 429 | 0.7 |
| 1162156 | Soil | 2.6 | <0.1 | 2.01 | 7.3 | 1 | 371 | 0.1 | 0.29 | 0.1 | 11.4 | 29 | 30.1 | 3.17 | 6 | 0.03 | 0.07 | 11 | 0.65 | 311 | 0.9 |

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Report Date: August 24, 2011



# CERTIFICATE OF ANALYSIS DAW11000161.1

| | 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 |
| 1089087 | Soil | 0.014 | 24.5 | 0.030 | 11.3 | 0.09 | 0.6 | 2.9 | <0.5 | 21 | <0.2 | 2.6 | 0.075 | <0.1 | 0.4 | 80 | <0.1 | 67 |
| 1089084 | Soil | 0.022 | 17.7 | 0.075 | 6.3 | 0.12 | 0.2 | 6.4 | 0.8 | 38 | <0.2 | 1.6 | 0.124 | 0.1 | 0.7 | 106 | <0.1 | 77 |
| 1089085 | Soil | 0.021 | 17.9 | 0.078 | 6.9 | 0.09 | 1.0 | 4.7 | 0.5 | 33 | <0.2 | 3.1 | 0.110 | 0.1 | 0.8 | 65 | 0.1 | 60 |
| 1089082 | Soil | 0.015 | 20.3 | 0.037 | 8.3 | 0.07 | 0.3 | 4.0 | <0.5 | 27 | <0.2 | 3.4 | 0.108 | <0.1 | 0.6 | 75 | 0.1 | 58 |
| 1089080 | Soil | 0.034 | 22.6 | 0.041 | 4.3 | 0.07 | 0.2 | 4.0 | <0.5 | 24 | <0.2 | 1.2 | 0.165 | <0.1 | 0.2 | 83 | <0.1 | 46 |
| 1089081 | Soil | 0.019 | 15.5 | 0.036 | 8.0 | 0.05 | 0.4 | 4.2 | <0.5 | 23 | <0.2 | 2.9 | 0.145 | <0.1 | 0.6 | 89 | <0.1 | 65 |
| 1089083 | Soil | 0.023 | 19.0 | 0.052 | 6.9 | 0.06 | 0.2 | 7.2 | <0.5 | 32 | <0.2 | 2.4 | 0.116 | <0.1 | 0.8 | 94 | <0.1 | 64 |
| 1089079 | Soil | 0.020 | 26.7 | 0.051 | 7.8 | 0.05 | 0.2 | 3.4 | <0.5 | 27 | <0.2 | 2.4 | 0.150 | <0.1 | 0.5 | 81 | 0.1 | 58 |
| 1089078 | Soil | 0.015 | 18.5 | 0.108 | 1.5 | 0.06 | <0.1 | 2.2 | <0.5 | 34 | <0.2 | 0.5 | 0.348 | 0.1 | 0.2 | 120 | <0.1 | 76 |
| 1089077 | Soil | 0.021 | 15.2 | 0.219 | 4.8 | 0.08 | 1.7 | 14.5 | 1.0 | 19 | <0.2 | 3.9 | 0.383 | 0.4 | 0.8 | 169 | <0.1 | 129 |
| 1089076 | Soil | 0.019 | 15.1 | 0.231 | 4.0 | 0.08 | <0.1 | 14.1 | 0.6 | 19 | <0.2 | 4.0 | 0.381 | 0.4 | 0.7 | 166 | <0.1 | 123 |
| 1089074 | Soil | 0.033 | 11.4 | 0.045 | 8.3 | 0.08 | 0.3 | 3.9 | 0.6 | 24 | <0.2 | 1.5 | 0.153 | <0.1 | 0.6 | 96 | 0.1 | 42 |
| 1089075 | Soil | 0.016 | 19.2 | 0.048 | 7.2 | <0.05 | 0.4 | 5.8 | <0.5 | 20 | <0.2 | 3.0 | 0.099 | <0.1 | 0.9 | 83 | 0.1 | 55 |
| 1089071 | Soil | 0.011 | 22.2 | 0.061 | 7.3 | <0.05 | 0.3 | 2.4 | 0.6 | 16 | <0.2 | 0.5 | 0.059 | 0.1 | 0.7 | 60 | <0.1 | 47 |
| 1089070 | Soil | 0.026 | 15.0 | 0.071 | 5.6 | <0.05 | 0.2 | 3.1 | <0.5 | 20 | <0.2 | 0.7 | 0.118 | 0.1 | 0.5 | 74 | <0.1 | 48 |
| 1089073 | Soil | 0.031 | 20.7 | 0.064 | 4.6 | <0.05 | 0.7 | 7.7 | <0.5 | 15 | <0.2 | 1.9 | 0.085 | <0.1 | 0.3 | 116 | <0.1 | 58 |
| 1089069 | Soil | 0.015 | 21.0 | 0.062 | 6.7 | <0.05 | 0.3 | 6.2 | <0.5 | 22 | <0.2 | 2.3 | 0.140 | 0.1 | 0.9 | 77 | 0.1 | 64 |
| 1089067 | Soil | 0.015 | 19.4 | 0.065 | 6.7 | <0.05 | 0.2 | 6.0 | <0.5 | 22 | <0.2 | 2.4 | 0.143 | 0.1 | 0.9 | 75 | <0.1 | 67 |
| 1089072 | Soil | 0.019 | 5.1 | 0.058 | 5.1 | <0.05 | 0.1 | 2.2 | <0.5 | 8 | <0.2 | 0.4 | 0.129 | <0.1 | 0.4 | 99 | <0.1 | 34 |
| 1089086 | Soil | 0.032 | 21.4 | 0.041 | 9.9 | <0.05 | 0.5 | 5.5 | <0.5 | 29 | <0.2 | 2.3 | 0.136 | <0.1 | 0.7 | 85 | <0.1 | 60 |
| 1089068 | Soil | 0.013 | 18.3 | 0.069 | 6.7 | <0.05 | 0.3 | 5.7 | <0.5 | 21 | <0.2 | 2.0 | 0.146 | 0.2 | 0.8 | 75 | 0.1 | 63 |
| 1089066 | Soil | 0.016 | 16.6 | 0.089 | 5.5 | <0.05 | 0.3 | 4.7 | 0.5 | 21 | <0.2 | 2.2 | 0.164 | 0.1 | 0.5 | 92 | 0.1 | 70 |
| 1089065 | Soil | 0.018 | 19.0 | 0.076 | 4.8 | <0.05 | 0.3 | 4.5 | 0.7 | 27 | <0.2 | 2.2 | 0.155 | <0.1 | 0.6 | 85 | 0.1 | 74 |
| 1089064 | Soil | 0.014 | 13.7 | 0.078 | 5.3 | <0.05 | 0.2 | 3.9 | <0.5 | 25 | <0.2 | 1.6 | 0.169 | <0.1 | 0.4 | 109 | <0.1 | 73 |
| 1089063 | Soil | 0.019 | 13.4 | 0.056 | 6.5 | <0.05 | 0.2 | 5.3 | <0.5 | 29 | <0.2 | 1.1 | 0.119 | <0.1 | 0.6 | 77 | <0.1 | 61 |
| 1089062 | Soil | 0.019 | 15.2 | 0.063 | 5.2 | <0.05 | 0.3 | 4.3 | <0.5 | 25 | <0.2 | 1.8 | 0.124 | <0.1 | 0.5 | 74 | 0.1 | 57 |
| 1089061 | Soil | 0.019 | 17.4 | 0.061 | 6.4 | <0.05 | 0.2 | 5.5 | <0.5 | 30 | <0.2 | 1.8 | 0.138 | 0.1 | 0.5 | 101 | <0.1 | 74 |
| 1162154 | Soil | 0.026 | 19.3 | 0.053 | 6.2 | 0.10 | 0.2 | 7.0 | 1.3 | 27 | <0.2 | 2.1 | 0.184 | 0.2 | 0.6 | 115 | <0.1 | 124 |
| 1162157 | Soil | 0.020 | 15.3 | 0.048 | 7.6 | <0.05 | 0.3 | 4.4 | <0.5 | 18 | <0.2 | 1.8 | 0.168 | 0.1 | 0.5 | 115 | <0.1 | 68 |
| 1162156 | Soil | 0.019 | 18.3 | 0.035 | 8.0 | <0.05 | 0.4 | 5.1 | <0.5 | 22 | <0.2 | 2.3 | 0.097 | 0.1 | 0.7 | 84 | <0.1 | 59 |

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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 |
| 1162155 | Soil | 6.9 | <0.1 | 2.14 | 6.6 | 2 | 238 | 0.1 | 0.23 | 0.1 | 12.3 | 26 | 34.3 | 3.17 | 6 | 0.02 | 0.09 | 9 | 0.68 | 342 | 0.9 |
| 1162158 | Soil | 1.5 | 0.2 | 1.93 | 4.7 | 2 | 384 | 0.1 | 0.28 | 0.1 | 13.1 | 21 | 52.5 | 3.07 | 7 | 0.06 | 0.15 | 8 | 0.66 | 338 | 0.6 |
| 1162159 | Soil | 1.1 | <0.1 | 1.54 | 4.1 | 3 | 268 | 0.1 | 0.31 | 0.1 | 21.9 | 28 | 35.1 | 3.77 | 6 | 0.03 | 0.31 | 11 | 0.69 | 1070 | 0.4 |
| 1162160 | Soil | 1.9 | <0.1 | 1.84 | 4.8 | 2 | 320 | 0.1 | 0.37 | 0.2 | 17.3 | 26 | 35.9 | 3.44 | 6 | 0.03 | 0.27 | 12 | 0.86 | 573 | 0.6 |
| 1162134 | Soil | 0.7 | 0.1 | 2.25 | 3.7 | <1 | 218 | <0.1 | 0.25 | 0.1 | 17.1 | 26 | 37.5 | 3.31 | 7 | 0.02 | 0.68 | 6 | 1.53 | 665 | 1.1 |
| 1160840 | Soil | 1.6 | <0.1 | 1.26 | 3.7 | <1 | 237 | <0.1 | 0.45 | 0.1 | 13.5 | 25 | 31.9 | 2.55 | 5 | 0.01 | 0.14 | 7 | 0.66 | 365 | 0.5 |
| 1162141 | Soil | 0.6 | <0.1 | 2.84 | <0.5 | <1 | 510 | <0.1 | 0.26 | <0.1 | 11.8 | 18 | 87.6 | 5.89 | 10 | <0.01 | 1.29 | 12 | 1.76 | 541 | 1.7 |
| 1162138 | Soil | 2.2 | 0.2 | 2.16 | 5.9 | 1 | 269 | 0.1 | 0.36 | 0.1 | 14.3 | 34 | 38.0 | 3.48 | 7 | 0.02 | 0.30 | 7 | 1.22 | 452 | 0.8 |
| 1162132 | Soil | 6.7 | 0.1 | 1.64 | 5.6 | 3 | 372 | 0.1 | 1.01 | 0.2 | 10.6 | 28 | 32.7 | 2.35 | 5 | 0.05 | 0.06 | 10 | 0.76 | 470 | 0.4 |
| 1162131 | Soil | 1.1 | 0.1 | 1.81 | 5.7 | 1 | 340 | 0.1 | 0.71 | <0.1 | 11.7 | 28 | 27.6 | 2.63 | 6 | 0.04 | 0.05 | 9 | 0.73 | 531 | 0.8 |
| 1162140 | Soil | 3.2 | 0.1 | 2.10 | 5.3 | 1 | 198 | <0.1 | 0.43 | <0.1 | 13.5 | 43 | 58.1 | 2.86 | 6 | 0.02 | 0.12 | 9 | 1.15 | 313 | 0.6 |
| 1162139 | Soil | 1.6 | <0.1 | 1.64 | 5.3 | 1 | 258 | <0.1 | 0.39 | <0.1 | 10.9 | 32 | 41.3 | 2.65 | 5 | 0.03 | 0.12 | 10 | 0.75 | 301 | 0.5 |
| 1162133 | Soil | 1.0 | 0.3 | 2.52 | 4.5 | 2 | 271 | <0.1 | 0.42 | <0.1 | 13.2 | 35 | 64.1 | 3.23 | 7 | 0.03 | 0.09 | 8 | 0.90 | 267 | 1.3 |
| 1162137 | Soil | 1.9 | <0.1 | 2.14 | 5.2 | 1 | 195 | <0.1 | 0.38 | 0.1 | 15.7 | 31 | 42.9 | 3.34 | 6 | <0.01 | 0.30 | 7 | 1.36 | 456 | 0.5 |
| 1162142 | Soil | 0.6 | <0.1 | 2.80 | <0.5 | <1 | 485 | 0.1 | 0.25 | <0.1 | 11.4 | 17 | 96.0 | 5.55 | 9 | <0.01 | 1.35 | 12 | 1.70 | 543 | 1.5 |
| 1162136 | Soil | 3.8 | 0.1 | 2.70 | 3.3 | <1 | 249 | <0.1 | 0.38 | 0.1 | 16.3 | 56 | 77.9 | 3.91 | 8 | 0.02 | 0.40 | 6 | 1.72 | 384 | 1.2 |
| 1162135 | Soil | 1.7 | <0.1 | 2.22 | 6.5 | 1 | 152 | <0.1 | 0.26 | 0.2 | 13.9 | 36 | 44.1 | 2.97 | 6 | <0.01 | 0.09 | 6 | 1.00 | 316 | 0.8 |
| 1162146 | Soil | 1.0 | <0.1 | 2.50 | 4.6 | <1 | 172 | <0.1 | 0.26 | 0.2 | 12.8 | 37 | 43.6 | 3.25 | 7 | 0.02 | 0.39 | 5 | 1.51 | 393 | 0.7 |
| 1162148 | Soil | 2.1 | <0.1 | 2.58 | 9.4 | 1 | 242 | 0.2 | 0.18 | 0.1 | 13.2 | 36 | 26.7 | 3.07 | 6 | 0.03 | 0.07 | 6 | 0.67 | 267 | 0.8 |
| 1162153 | Soil | 1.8 | <0.1 | 1.76 | 5.7 | <1 | 236 | 0.1 | 0.37 | 0.1 | 11.3 | 29 | 26.6 | 2.76 | 6 | 0.02 | 0.06 | 10 | 0.85 | 354 | 0.7 |
| 1162145 | Soil | 4.0 | <0.1 | 2.20 | 6.7 | 1 | 230 | 0.1 | 0.22 | 0.1 | 11.9 | 37 | 42.1 | 3.36 | 7 | 0.02 | 0.24 | 6 | 1.00 | 273 | 1.0 |
| 1162144 | Soil | 1.8 | <0.1 | 2.25 | 5.0 | <1 | 226 | <0.1 | 0.31 | 0.1 | 15.1 | 35 | 46.8 | 3.57 | 8 | 0.02 | 0.33 | 6 | 1.34 | 430 | 0.7 |
| 1162147 | Soil | 1.6 | <0.1 | 3.17 | 5.5 | 2 | 195 | <0.1 | 0.34 | 0.1 | 18.8 | 37 | 65.5 | 4.73 | 8 | 0.02 | 0.54 | 3 | 1.96 | 639 | 0.9 |
| 1162149 | Soil | 3.6 | <0.1 | 1.60 | 4.6 | 1 | 116 | <0.1 | 0.29 | <0.1 | 11.9 | 31 | 30.9 | 2.61 | 5 | 0.02 | 0.20 | 7 | 0.99 | 363 | 0.7 |
| 1162143 | Soil | 4.1 | <0.1 | 2.33 | 4.9 | 1 | 265 | <0.1 | 0.44 | <0.1 | 17.4 | 33 | 53.7 | 3.34 | 7 | 0.01 | 0.35 | 8 | 1.46 | 402 | 0.4 |
| 1162152 | Soil | 10.3 | <0.1 | 1.84 | 5.1 | 1 | 350 | <0.1 | 0.71 | 0.1 | 12.9 | 28 | 30.6 | 2.96 | 5 | 0.03 | 0.22 | 8 | 0.96 | 395 | 0.5 |
| 1162151 | Soil | 3.1 | <0.1 | 1.75 | 6.6 | 1 | 383 | 0.1 | 0.61 | <0.1 | 10.8 | 31 | 25.2 | 2.55 | 5 | 0.04 | 0.08 | 10 | 0.74 | 389 | 0.5 |
| 1162150 | Soil | 33.5 | <0.1 | 2.94 | 2.0 | <1 | 208 | <0.1 | 0.22 | <0.1 | 21.0 | 36 | 62.3 | 4.63 | 9 | <0.01 | 1.05 | 1 | 1.94 | 746 | 0.6 |
| 1089025 | Soil | 0.8 | <0.1 | 1.94 | 1.3 | <1 | 315 | <0.1 | 0.38 | <0.1 | 17.0 | 199 | 29.8 | 2.69 | 6 | <0.01 | 0.66 | 4 | 1.73 | 334 | 0.2 |
| 1089024 | Soil | 0.9 | <0.1 | 1.86 | 5.6 | <1 | 338 | <0.1 | 0.35 | <0.1 | 11.5 | 26 | 33.3 | 3.18 | 7 | <0.01 | 0.67 | 8 | 1.29 | 412 | 0.6 |

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Project: TSL
Report Date: August 24, 2011



# CERTIFICATE OF ANALYSIS DAW11000161.1

| | 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 |
| 1162155 | Soil | 0.017 | 19.8 | 0.039 | 7.2 | <0.05 | 0.3 | 4.2 | <0.5 | 17 | <0.2 | 2.4 | 0.099 | <0.1 | 0.5 | 84 | <0.1 | 59 |
| 1162158 | Soil | 0.022 | 14.0 | 0.050 | 6.5 | <0.05 | 0.2 | 5.3 | <0.5 | 17 | <0.2 | 1.2 | 0.132 | 0.1 | 0.7 | 93 | <0.1 | 62 |
| 1162159 | Soil | 0.019 | 18.0 | 0.061 | 9.4 | <0.05 | 0.2 | 6.1 | <0.5 | 18 | <0.2 | 2.9 | 0.101 | 0.2 | 0.6 | 94 | <0.1 | 85 |
| 1162160 | Soil | 0.018 | 16.5 | 0.052 | 12.4 | <0.05 | 0.2 | 4.8 | <0.5 | 19 | <0.2 | 2.9 | 0.130 | 0.2 | 0.6 | 92 | <0.1 | 86 |
| 1162134 | Soil | 0.012 | 14.5 | 0.043 | 4.9 | <0.05 | 0.1 | 3.4 | <0.5 | 19 | <0.2 | 1.4 | 0.185 | 0.3 | 0.3 | 92 | <0.1 | 67 |
| 1160840 | Soil | 0.020 | 15.7 | 0.056 | 5.9 | <0.05 | 0.2 | 3.7 | <0.5 | 20 | <0.2 | 1.6 | 0.091 | <0.1 | 0.4 | 74 | 0.1 | 60 |
| 1162141 | Soil | 0.064 | 8.9 | 0.066 | 4.4 | 0.59 | <0.1 | 10.0 | 6.6 | 33 | <0.2 | 3.8 | 0.183 | 0.3 | 0.8 | 129 | <0.1 | 140 |
| 1162138 | Soil | 0.014 | 18.6 | 0.039 | 6.1 | <0.05 | 0.3 | 3.8 | <0.5 | 24 | <0.2 | 1.6 | 0.182 | <0.1 | 0.4 | 107 | <0.1 | 53 |
| 1162132 | Soil | 0.020 | 22.3 | 0.065 | 7.1 | <0.05 | 0.4 | 4.0 | <0.5 | 36 | <0.2 | 1.9 | 0.092 | <0.1 | 0.6 | 63 | 0.1 | 65 |
| 1162131 | Soil | 0.019 | 18.1 | 0.047 | 7.0 | <0.05 | 0.3 | 4.4 | <0.5 | 33 | <0.2 | 1.4 | 0.098 | <0.1 | 0.6 | 75 | 0.1 | 59 |
| 1162140 | Soil | 0.018 | 23.4 | 0.051 | 6.0 | <0.05 | 0.3 | 3.8 | <0.5 | 25 | <0.2 | 2.2 | 0.133 | <0.1 | 0.5 | 86 | <0.1 | 55 |
| 1162139 | Soil | 0.015 | 20.5 | 0.060 | 5.8 | <0.05 | 0.3 | 3.9 | <0.5 | 25 | <0.2 | 2.4 | 0.110 | <0.1 | 0.6 | 72 | 0.1 | 51 |
| 1162133 | Soil | 0.023 | 22.8 | 0.040 | 7.3 | <0.05 | 0.2 | 5.3 | 0.5 | 40 | <0.2 | 1.7 | 0.108 | 0.1 | 0.6 | 104 | <0.1 | 62 |
| 1162137 | Soil | 0.017 | 20.8 | 0.056 | 6.7 | <0.05 | 0.2 | 3.3 | <0.5 | 23 | <0.2 | 1.8 | 0.172 | <0.1 | 0.3 | 99 | <0.1 | 73 |
| 1162142 | Soil | 0.052 | 8.8 | 0.067 | 4.1 | 0.58 | <0.1 | 10.2 | 6.3 | 31 | <0.2 | 3.6 | 0.185 | 0.3 | 0.8 | 131 | <0.1 | 156 |
| 1162136 | Soil | 0.030 | 25.2 | 0.048 | 11.3 | 0.12 | 0.2 | 6.2 | 0.9 | 31 | <0.2 | 1.5 | 0.177 | 0.1 | 0.4 | 129 | <0.1 | 114 |
| 1162135 | Soil | 0.017 | 21.3 | 0.027 | 7.6 | <0.05 | 0.2 | 3.5 | <0.5 | 21 | <0.2 | 2.1 | 0.131 | <0.1 | 0.4 | 83 | <0.1 | 74 |
| 1162146 | Soil | 0.017 | 17.9 | 0.048 | 5.7 | <0.05 | 0.2 | 3.5 | <0.5 | 16 | <0.2 | 1.5 | 0.182 | <0.1 | 0.3 | 110 | <0.1 | 59 |
| 1162148 | Soil | 0.010 | 28.0 | 0.015 | 8.6 | <0.05 | 0.5 | 2.9 | <0.5 | 17 | <0.2 | 2.3 | 0.089 | <0.1 | 0.4 | 73 | 0.1 | 57 |
| 1162153 | Soil | 0.016 | 17.8 | 0.048 | 6.6 | <0.05 | 0.3 | 3.8 | <0.5 | 23 | <0.2 | 2.2 | 0.102 | <0.1 | 0.6 | 75 | 0.1 | 53 |
| 1162145 | Soil | 0.012 | 18.4 | 0.049 | 6.6 | <0.05 | 0.3 | 2.9 | <0.5 | 17 | <0.2 | 1.2 | 0.136 | <0.1 | 0.5 | 96 | <0.1 | 54 |
| 1162144 | Soil | 0.013 | 18.2 | 0.051 | 4.8 | <0.05 | 0.2 | 4.0 | <0.5 | 17 | <0.2 | 1.8 | 0.164 | <0.1 | 0.4 | 102 | <0.1 | 67 |
| 1162147 | Soil | 0.014 | 19.5 | 0.069 | 6.4 | <0.05 | 0.2 | 3.2 | <0.5 | 17 | <0.2 | 0.9 | 0.224 | <0.1 | 0.2 | 140 | <0.1 | 84 |
| 1162149 | Soil | 0.010 | 18.5 | 0.047 | 5.1 | <0.05 | 0.2 | 2.2 | <0.5 | 17 | <0.2 | 1.8 | 0.113 | 0.1 | 0.4 | 68 | 0.1 | 53 |
| 1162143 | Soil | 0.014 | 26.5 | 0.053 | 4.7 | <0.05 | 0.3 | 3.1 | <0.5 | 28 | <0.2 | 1.9 | 0.154 | 0.1 | 0.4 | 86 | <0.1 | 84 |
| 1162152 | Soil | 0.016 | 21.0 | 0.080 | 5.6 | <0.05 | 0.3 | 3.2 | <0.5 | 27 | <0.2 | 1.9 | 0.140 | 0.1 | 0.5 | 73 | 0.1 | 65 |
| 1162151 | Soil | 0.018 | 22.6 | 0.045 | 7.9 | <0.05 | 0.3 | 3.5 | <0.5 | 24 | <0.2 | 2.2 | 0.089 | <0.1 | 0.5 | 62 | 0.1 | 53 |
| 1162150 | Soil | 0.015 | 20.6 | 0.079 | 2.9 | <0.05 | <0.1 | 2.4 | <0.5 | 14 | <0.2 | 0.3 | 0.283 | 0.9 | 0.2 | 153 | <0.1 | 74 |
| 1089025 | Soil | 0.013 | 62.9 | 0.071 | 2.4 | <0.05 | 0.1 | 1.9 | <0.5 | 21 | <0.2 | 0.8 | 0.173 | 0.1 | 0.2 | 72 | <0.1 | 50 |
| 1089024 | Soil | 0.014 | 14.5 | 0.067 | 3.7 | <0.05 | 0.2 | 4.5 | <0.5 | 17 | <0.2 | 2.9 | 0.172 | 0.2 | 0.5 | 77 | <0.1 | 63 |

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Project: TSL
Report Date: August 24, 2011



# CERTIFICATE OF ANALYSIS DAW11000161.1

| | 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 |
| 1089026 | Soil | 1.9 | <0.1 | 1.69 | 3.5 | <1 | 318 | <0.1 | 0.54 | <0.1 | 14.7 | 30 | 45.3 | 2.79 | 5 | 0.02 | 0.31 | 7 | 0.96 | 272 | 0.4 |
| 1089022 | Soil | 2.3 | 0.2 | 1.69 | 7.3 | <1 | 321 | <0.1 | 0.58 | 0.1 | 13.6 | 40 | 79.0 | 2.84 | 6 | 0.04 | 0.07 | 10 | 0.93 | 478 | 0.5 |
| 1089018 | Soil | 2.7 | <0.1 | 2.28 | 3.9 | <1 | 293 | <0.1 | 0.42 | <0.1 | 16.3 | 37 | 32.7 | 3.38 | 7 | 0.01 | 0.26 | 7 | 1.42 | 329 | 0.4 |
| 1089023 | Soil | 2.3 | 0.2 | 1.79 | 7.9 | 1 | 389 | <0.1 | 0.38 | <0.1 | 12.9 | 61 | 34.3 | 2.87 | 6 | 0.03 | 0.27 | 9 | 1.13 | 367 | 0.5 |
| 1089027 | Soil | 7.6 | <0.1 | 1.58 | 4.1 | <1 | 235 | <0.1 | 0.40 | <0.1 | 8.8 | 30 | 28.5 | 2.37 | 5 | 0.03 | 0.09 | 9 | 0.64 | 183 | 0.4 |
| 1089020 | Soil | 7.6 | 0.2 | 1.91 | 4.0 | 1 | 301 | <0.1 | 0.37 | <0.1 | 10.6 | 30 | 45.6 | 2.84 | 7 | 0.03 | 0.19 | 9 | 1.03 | 262 | 0.4 |
| 1089021 | Soil | 6.9 | 0.2 | 2.07 | 3.8 | 3 | 364 | <0.1 | 0.53 | 0.1 | 13.5 | 41 | 60.8 | 3.29 | 7 | 0.05 | 0.22 | 11 | 1.12 | 276 | 0.5 |
| 1089014 | Soil | 5.1 | 0.1 | 1.91 | 5.8 | 2 | 220 | 0.1 | 0.30 | <0.1 | 11.2 | 36 | 43.5 | 3.05 | 6 | 0.02 | 0.15 | 7 | 0.86 | 357 | 0.5 |
| 1089019 | Soil | 1.9 | <0.1 | 2.20 | 4.4 | 1 | 274 | <0.1 | 0.40 | <0.1 | 15.6 | 36 | 32.4 | 3.24 | 7 | <0.01 | 0.21 | 7 | 1.28 | 317 | 0.4 |
| 1089013 | Soil | 1.3 | <0.1 | 2.31 | 1.6 | <1 | 493 | <0.1 | 0.38 | <0.1 | 15.5 | 39 | 51.4 | 3.49 | 9 | <0.01 | 0.72 | 6 | 1.65 | 390 | 0.3 |
| 1089015 | Soil | 3.2 | 0.2 | 1.74 | 5.7 | 1 | 186 | <0.1 | 0.36 | <0.1 | 11.5 | 39 | 50.4 | 2.81 | 6 | 0.02 | 0.11 | 8 | 0.83 | 356 | 0.5 |
| 1089017 | Soil | 3.1 | 0.1 | 1.69 | 6.0 | 1 | 174 | 0.1 | 0.32 | <0.1 | 8.4 | 26 | 28.3 | 2.45 | 6 | 0.02 | 0.06 | 7 | 0.62 | 258 | 0.8 |
| 1089016 | Soil | 3.1 | <0.1 | 1.39 | 7.0 | <1 | 132 | <0.1 | 0.32 | <0.1 | 15.8 | 166 | 110.2 | 2.49 | 4 | <0.01 | 0.06 | 6 | 0.84 | 271 | 0.4 |
| 1089012 | Soil | 1.0 | <0.1 | 2.48 | 3.0 | <1 | 361 | <0.1 | 0.37 | <0.1 | 16.5 | 32 | 42.6 | 3.89 | 9 | 0.01 | 0.54 | 10 | 1.85 | 413 | 0.5 |
| 1089009 | Soil | 1.1 | <0.1 | 2.35 | 6.4 | 1 | 213 | 0.1 | 0.31 | <0.1 | 11.4 | 27 | 24.5 | 3.70 | 9 | 0.01 | 0.23 | 7 | 1.24 | 403 | 0.8 |
| 1089011 | Soil | 1.3 | <0.1 | 2.60 | 2.7 | <1 | 423 | <0.1 | 0.44 | <0.1 | 17.5 | 34 | 46.2 | 4.11 | 10 | <0.01 | 0.68 | 10 | 2.03 | 427 | 0.4 |
| 1089010 | Soil | 2.3 | 0.1 | 1.81 | 5.2 | <1 | 200 | 0.1 | 0.26 | <0.1 | 11.3 | 30 | 27.7 | 2.90 | 6 | 0.03 | 0.15 | 10 | 0.93 | 368 | 0.6 |
| 1089007 | Soil | 0.5 | 0.1 | 3.02 | 6.9 | <1 | 166 | 0.1 | 0.48 | 0.1 | 17.2 | 34 | 29.8 | 4.19 | 10 | 0.03 | 0.11 | 4 | 1.67 | 495 | 1.0 |
| 1089008 | Soil | 3.2 | 0.2 | 2.40 | 6.8 | 1 | 170 | 0.1 | 0.31 | <0.1 | 11.1 | 26 | 28.8 | 3.64 | 9 | 0.03 | 0.12 | 6 | 1.05 | 301 | 0.9 |
| 1089002 | Soil | 3.9 | 0.1 | 2.13 | 12.2 | 2 | 156 | 0.1 | 0.24 | <0.1 | 11.0 | 31 | 33.0 | 2.71 | 5 | 0.03 | 0.06 | 9 | 0.63 | 314 | 0.8 |
| 1162242 | Soil | 2.6 | <0.1 | 1.46 | 3.5 | <1 | 107 | <0.1 | 0.26 | <0.1 | 8.3 | 24 | 19.6 | 2.08 | 5 | 0.03 | 0.06 | 5 | 0.75 | 185 | 0.5 |
| 1162229 | Soil | 2.9 | 0.1 | 1.63 | 4.9 | 2 | 156 | 0.1 | 0.29 | 0.1 | 9.0 | 28 | 23.9 | 2.25 | 5 | 0.03 | 0.06 | 8 | 0.65 | 188 | 0.6 |
| 1162240 | Soil | 1.2 | <0.1 | 1.45 | 2.8 | 1 | 104 | <0.1 | 0.26 | <0.1 | 7.1 | 26 | 16.5 | 1.86 | 5 | 0.03 | 0.07 | 5 | 0.75 | 151 | 0.4 |
| 1162233 | Soil | 1.1 | <0.1 | 2.07 | 5.3 | <1 | 217 | <0.1 | 0.28 | 0.2 | 10.9 | 26 | 17.5 | 2.85 | 6 | 0.02 | 0.12 | 7 | 0.95 | 280 | 0.6 |
| 1162239 | Soil | 4.5 | 0.2 | 1.84 | 3.4 | 1 | 216 | 0.1 | 0.31 | 0.2 | 11.1 | 39 | 38.9 | 2.53 | 6 | 0.05 | 0.21 | 7 | 0.98 | 216 | 0.4 |
| 1162243 | Soil | 16.1 | <0.1 | 1.50 | 4.3 | 2 | 142 | 0.1 | 0.28 | 0.2 | 8.3 | 23 | 21.7 | 2.15 | 6 | 0.01 | 0.06 | 6 | 0.78 | 180 | 0.4 |
| 1162247 | Soil | 3.0 | 0.2 | 2.06 | 5.7 | 3 | 184 | 0.1 | 0.46 | 0.2 | 24.8 | 33 | 62.5 | 4.58 | 7 | 0.03 | 0.05 | 5 | 0.99 | 690 | 0.7 |
| 1162232 | Soil | 3.0 | <0.1 | 2.00 | 8.5 | 1 | 145 | 0.2 | 0.15 | <0.1 | 8.4 | 29 | 23.5 | 3.02 | 7 | 0.02 | 0.04 | 7 | 0.40 | 230 | 1.3 |
| 1162238 | Soil | 2.0 | 0.1 | 2.07 | 4.2 | 1 | 185 | <0.1 | 0.42 | 0.1 | 15.5 | 36 | 35.3 | 3.18 | 6 | 0.01 | 0.46 | 5 | 1.45 | 423 | 0.8 |
| 1162244 | Soil | 2.3 | 0.1 | 1.81 | 4.5 | 1 | 208 | 0.1 | 0.25 | 0.1 | 11.6 | 31 | 42.2 | 2.88 | 6 | 0.02 | 0.16 | 7 | 0.94 | 286 | 0.8 |

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Project: TSL
Report Date: August 24, 2011



# CERTIFICATE OF ANALYSIS DAW11000161.1

| | 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 |
| 1089026 | Soil | 0.022 | 14.6 | 0.079 | 4.0 | <0.05 | 0.2 | 3.4 | <0.5 | 27 | <0.2 | 1.7 | 0.132 | <0.1 | 0.4 | 70 | <0.1 | 55 |
| 1089022 | Soil | 0.028 | 19.4 | 0.076 | 5.0 | <0.05 | 0.2 | 5.7 | <0.5 | 23 | <0.2 | 1.5 | 0.099 | <0.1 | 0.7 | 79 | <0.1 | 53 |
| 1089018 | Soil | 0.023 | 21.1 | 0.054 | 4.4 | <0.05 | 0.2 | 3.4 | <0.5 | 20 | <0.2 | 1.4 | 0.164 | 0.1 | 0.4 | 91 | <0.1 | 70 |
| 1089023 | Soil | 0.013 | 38.2 | 0.047 | 5.2 | <0.05 | 0.1 | 3.9 | <0.5 | 22 | <0.2 | 2.0 | 0.138 | 0.1 | 0.6 | 75 | <0.1 | 56 |
| 1089027 | Soil | 0.018 | 14.3 | 0.053 | 5.4 | <0.05 | 0.2 | 4.0 | <0.5 | 23 | <0.2 | 1.9 | 0.094 | <0.1 | 0.7 | 60 | <0.1 | 51 |
| 1089020 | Soil | 0.018 | 15.4 | 0.063 | 5.3 | <0.05 | 0.2 | 4.3 | <0.5 | 20 | <0.2 | 1.6 | 0.123 | <0.1 | 0.6 | 74 | <0.1 | 73 |
| 1089021 | Soil | 0.025 | 18.4 | 0.068 | 5.8 | <0.05 | 0.2 | 7.6 | <0.5 | 28 | <0.2 | 1.7 | 0.152 | <0.1 | 0.7 | 88 | <0.1 | 71 |
| 1089014 | Soil | 0.016 | 19.0 | 0.049 | 4.8 | <0.05 | 0.2 | 3.5 | <0.5 | 19 | <0.2 | 2.1 | 0.132 | 0.1 | 0.4 | 66 | <0.1 | 63 |
| 1089019 | Soil | 0.020 | 20.2 | 0.051 | 4.7 | <0.05 | 0.2 | 3.3 | <0.5 | 20 | <0.2 | 1.6 | 0.152 | 0.1 | 0.4 | 89 | <0.1 | 66 |
| 1089013 | Soil | 0.022 | 15.7 | 0.090 | 3.0 | <0.05 | <0.1 | 6.1 | <0.5 | 17 | <0.2 | 1.5 | 0.191 | 0.2 | 0.3 | 99 | <0.1 | 73 |
| 1089015 | Soil | 0.016 | 18.4 | 0.061 | 5.2 | <0.05 | 0.2 | 3.4 | <0.5 | 20 | <0.2 | 2.3 | 0.116 | <0.1 | 0.5 | 69 | 0.1 | 54 |
| 1089017 | Soil | 0.023 | 14.4 | 0.033 | 5.5 | <0.05 | 0.3 | 2.9 | <0.5 | 19 | <0.2 | 1.8 | 0.101 | <0.1 | 0.4 | 68 | <0.1 | 48 |
| 1089016 | Soil | 0.017 | 38.7 | 0.056 | 3.4 | <0.05 | 0.3 | 3.3 | <0.5 | 15 | <0.2 | 1.6 | 0.075 | <0.1 | 0.3 | 59 | <0.1 | 40 |
| 1089012 | Soil | 0.014 | 15.6 | 0.076 | 3.3 | <0.05 | 0.1 | 7.3 | <0.5 | 18 | <0.2 | 2.3 | 0.169 | 0.1 | 0.5 | 98 | <0.1 | 70 |
| 1089009 | Soil | 0.012 | 15.7 | 0.041 | 6.8 | <0.05 | 0.3 | 4.7 | <0.5 | 22 | <0.2 | 2.0 | 0.186 | <0.1 | 0.4 | 95 | <0.1 | 65 |
| 1089011 | Soil | 0.016 | 16.4 | 0.087 | 3.2 | <0.05 | <0.1 | 8.0 | <0.5 | 19 | <0.2 | 2.2 | 0.189 | 0.1 | 0.5 | 107 | <0.1 | 73 |
| 1089010 | Soil | 0.011 | 16.0 | 0.041 | 6.2 | <0.05 | 0.2 | 4.0 | <0.5 | 17 | <0.2 | 2.4 | 0.116 | 0.1 | 0.6 | 74 | 0.1 | 55 |
| 1089007 | Soil | 0.014 | 23.5 | 0.037 | 16.5 | <0.05 | 0.2 | 3.4 | <0.5 | 47 | <0.2 | 1.2 | 0.146 | <0.1 | 0.3 | 108 | 0.1 | 70 |
| 1089008 | Soil | 0.012 | 15.7 | 0.036 | 6.8 | <0.05 | 0.3 | 3.7 | <0.5 | 25 | <0.2 | 1.8 | 0.138 | <0.1 | 0.4 | 96 | <0.1 | 64 |
| 1089002 | Soil | 0.010 | 22.2 | 0.051 | 7.4 | <0.05 | 0.4 | 3.2 | 0.5 | 17 | <0.2 | 2.8 | 0.080 | <0.1 | 0.6 | 64 | 0.1 | 51 |
| 1162242 | Soil | 0.013 | 12.3 | 0.038 | 5.1 | <0.05 | 0.2 | 2.2 | <0.5 | 16 | <0.2 | 0.9 | 0.083 | <0.1 | 0.3 | 61 | <0.1 | 49 |
| 1162229 | Soil | 0.012 | 17.2 | 0.057 | 7.1 | <0.05 | 0.2 | 2.7 | <0.5 | 18 | <0.2 | 1.8 | 0.081 | <0.1 | 0.5 | 59 | 0.1 | 52 |
| 1162240 | Soil | 0.013 | 13.3 | 0.045 | 4.9 | <0.05 | 0.2 | 2.1 | <0.5 | 17 | <0.2 | 0.8 | 0.086 | <0.1 | 0.3 | 53 | 0.1 | 46 |
| 1162233 | Soil | 0.010 | 19.0 | 0.041 | 5.5 | <0.05 | 0.3 | 3.3 | <0.5 | 17 | <0.2 | 1.8 | 0.116 | <0.1 | 0.4 | 84 | 0.1 | 50 |
| 1162239 | Soil | 0.012 | 18.5 | 0.055 | 7.1 | <0.05 | 0.2 | 4.6 | 0.5 | 20 | <0.2 | 1.2 | 0.113 | 0.1 | 0.7 | 71 | 0.1 | 56 |
| 1162243 | Soil | 0.010 | 13.7 | 0.055 | 7.4 | <0.05 | 0.2 | 3.1 | <0.5 | 19 | <0.2 | 1.0 | 0.090 | <0.1 | 0.4 | 66 | <0.1 | 59 |
| 1162247 | Soil | 0.027 | 20.9 | 0.040 | 9.7 | <0.05 | 0.4 | 7.4 | <0.5 | 27 | <0.2 | 1.3 | 0.073 | <0.1 | 0.4 | 119 | <0.1 | 70 |
| 1162232 | Soil | 0.011 | 18.5 | 0.020 | 8.4 | <0.05 | 0.5 | 3.3 | <0.5 | 14 | <0.2 | 2.0 | 0.070 | <0.1 | 0.4 | 87 | 0.1 | 45 |
| 1162238 | Soil | 0.015 | 20.5 | 0.050 | 4.8 | <0.05 | 0.2 | 2.7 | 0.5 | 21 | <0.2 | 1.3 | 0.170 | 0.2 | 0.4 | 86 | <0.1 | 64 |
| 1162244 | Soil | 0.016 | 16.6 | 0.045 | 6.8 | 0.05 | 0.2 | 4.1 | 1.3 | 19 | 0.2 | 1.5 | 0.106 | <0.1 | 0.5 | 82 | 0.1 | 71 |

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Project: TSL
Report Date: August 24, 2011



# CERTIFICATE OF ANALYSIS DAW11000161.1

| | 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 |
| 1162236 | Soil | 3.6 | <0.1 | 1.80 | 5.1 | 2 | 341 | 0.1 | 0.85 | 0.1 | 12.2 | 29 | 33.8 | 2.57 | 5 | 0.03 | 0.05 | 8 | 0.81 | 359 | 0.5 |
| 1162237 | Soil | 4.7 | 0.1 | 2.03 | 6.7 | 2 | 212 | 0.2 | 0.44 | <0.1 | 11.5 | 34 | 33.6 | 2.88 | 6 | 0.03 | 0.06 | 8 | 0.78 | 237 | 0.5 |
| 1162241 | Soil | 3.3 | <0.1 | 1.56 | 5.4 | 1 | 121 | <0.1 | 0.27 | 0.1 | 7.7 | 29 | 18.5 | 2.11 | 5 | 0.03 | 0.09 | 7 | 0.73 | 158 | 0.3 |
| 1162245 | Soil | 3.3 | <0.1 | 2.03 | 6.4 | 1 | 332 | <0.1 | 0.34 | 0.2 | 19.8 | 18 | 34.9 | 4.32 | 7 | 0.02 | 0.35 | 6 | 0.96 | 512 | 0.6 |
| 1162235 | Soil | 2.0 | <0.1 | 2.15 | 5.0 | 1 | 262 | <0.1 | 0.42 | 0.1 | 14.7 | 31 | 31.0 | 3.16 | 6 | 0.01 | 0.15 | 7 | 1.17 | 344 | 0.6 |
| 1162226 | Soil | 4.0 | 0.2 | 2.26 | 7.5 | 1 | 351 | 0.1 | 0.42 | 0.2 | 15.4 | 38 | 56.6 | 3.48 | 7 | 0.03 | 0.13 | 11 | 1.03 | 418 | 1.0 |
| 1089096 | Soil | 2.8 | <0.1 | 1.69 | 4.9 | 1 | 150 | <0.1 | 0.29 | <0.1 | 7.9 | 26 | 15.7 | 2.50 | 6 | 0.04 | 0.09 | 7 | 0.81 | 176 | 0.6 |
| 1089095 | Soil | 3.3 | 0.1 | 1.89 | 4.8 | 1 | 180 | 0.1 | 0.39 | 0.2 | 11.0 | 29 | 22.9 | 2.84 | 6 | 0.03 | 0.15 | 8 | 0.97 | 242 | 0.6 |
| 1089094 | Soil | 2.8 | <0.1 | 1.83 | 5.7 | 1 | 148 | 0.1 | 0.33 | 0.1 | 8.9 | 26 | 19.9 | 2.73 | 6 | 0.02 | 0.09 | 8 | 0.81 | 197 | 0.6 |
| 1089093 | Soil | 1.4 | 0.2 | 1.50 | 6.1 | 2 | 181 | <0.1 | 0.27 | 0.1 | 6.5 | 24 | 20.5 | 2.03 | 5 | 0.06 | 0.05 | 6 | 0.59 | 152 | 0.7 |
| 1089092 | Soil | 3.6 | <0.1 | 1.96 | 4.5 | 1 | 172 | <0.1 | 0.30 | 0.1 | 8.0 | 29 | 29.1 | 2.28 | 6 | 0.05 | 0.10 | 7 | 0.78 | 187 | 0.4 |
| 1089091 | Soil | 3.5 | <0.1 | 1.99 | 5.7 | 2 | 183 | 0.1 | 0.36 | 0.1 | 11.6 | 30 | 35.8 | 2.86 | 6 | 0.04 | 0.08 | 8 | 0.93 | 245 | 0.5 |
| 1162231 | Soil | 0.7 | 0.2 | 0.88 | 2.4 | 1 | 104 | <0.1 | 0.11 | <0.1 | 2.6 | 13 | 19.3 | 1.05 | 3 | 0.04 | 0.04 | 5 | 0.11 | 65 | 0.7 |
| 1162222 | Soil | 1.7 | 0.1 | 2.69 | 11.0 | 2 | 293 | 0.1 | 0.21 | <0.1 | 15.5 | 40 | 43.8 | 4.54 | 9 | 0.02 | 0.62 | 12 | 1.28 | 596 | 1.2 |
| 1162227 | Soil | 4.7 | 0.2 | 1.93 | 7.6 | 2 | 221 | 0.2 | 0.34 | 0.2 | 11.5 | 31 | 33.8 | 2.92 | 6 | 0.05 | 0.07 | 9 | 0.84 | 318 | 0.7 |
| 1162234 | Soil | 4.2 | <0.1 | 2.35 | 8.8 | 2 | 189 | 0.1 | 0.20 | 0.2 | 10.8 | 34 | 22.7 | 3.30 | 8 | 0.03 | 0.07 | 10 | 0.68 | 256 | 1.0 |
| 1162225 | Soil | 5.8 | 0.1 | 2.15 | 7.6 | 3 | 220 | 0.1 | 0.39 | 0.1 | 13.6 | 31 | 66.5 | 3.35 | 6 | 0.02 | 0.11 | 9 | 0.93 | 438 | 0.9 |
| 1162221 | Soil | 5.0 | 0.2 | 2.41 | 11.1 | 2 | 275 | 0.1 | 0.29 | <0.1 | 14.1 | 40 | 47.4 | 3.75 | 7 | 0.03 | 0.20 | 11 | 1.02 | 448 | 1.2 |
| 1162223 | Soil | 0.7 | 0.1 | 3.06 | 5.3 | 2 | 622 | <0.1 | 0.29 | <0.1 | 23.5 | 35 | 86.0 | 5.54 | 10 | 0.02 | 1.40 | 14 | 2.11 | 500 | 2.4 |
| 1162224 | Soil | 3.2 | 0.1 | 2.08 | 7.4 | 2 | 217 | 0.1 | 0.32 | <0.1 | 12.6 | 33 | 54.4 | 3.36 | 7 | 0.02 | 0.20 | 10 | 0.92 | 382 | 0.9 |
| 1162228 | Soil | 1.1 | 0.1 | 1.58 | 5.6 | 2 | 150 | 0.1 | 0.30 | 0.1 | 8.2 | 27 | 24.2 | 2.38 | 6 | 0.04 | 0.06 | 7 | 0.69 | 207 | 0.7 |
| 1162230 | Soil | 1.9 | <0.1 | 1.94 | 6.4 | 2 | 156 | 0.1 | 0.32 | 0.2 | 10.3 | 28 | 30.4 | 2.76 | 6 | 0.03 | 0.07 | 9 | 0.74 | 324 | 0.7 |
| 1089117 | Soil | 3.9 | <0.1 | 2.05 | 33.7 | 2 | 276 | <0.1 | 0.51 | 0.2 | 14.3 | 37 | 44.4 | 3.59 | 7 | 0.02 | 0.17 | 9 | 1.02 | 392 | 1.1 |
| 1089110 | Soil | 1.5 | <0.1 | 2.52 | 3.9 | 1 | 324 | <0.1 | 0.35 | <0.1 | 17.1 | 42 | 60.5 | 3.67 | 7 | 0.01 | 0.25 | 8 | 1.47 | 436 | 0.4 |
| 1089113 | Soil | 5.7 | 0.3 | 2.11 | 6.3 | 2 | 249 | <0.1 | 0.40 | 0.1 | 21.1 | 35 | 41.5 | 3.36 | 7 | 0.04 | 0.24 | 6 | 1.06 | 748 | 1.2 |
| 1089111 | Soil | <0.5 | 0.1 | 2.69 | 3.8 | 2 | 620 | <0.1 | 0.65 | <0.1 | 16.6 | 25 | 40.3 | 4.86 | 10 | 0.02 | 0.80 | 10 | 1.51 | 1135 | 0.7 |
| 1089109 | Soil | 7.3 | <0.1 | 2.59 | 7.5 | <1 | 263 | <0.1 | 0.39 | <0.1 | 17.9 | 47 | 67.8 | 3.55 | 7 | 0.02 | 0.11 | 6 | 1.30 | 433 | 0.6 |
| 1089112 | Soil | 19.9 | <0.1 | 2.11 | 5.4 | 1 | 271 | <0.1 | 0.48 | 0.1 | 14.4 | 29 | 31.0 | 3.32 | 6 | 0.02 | 0.11 | 8 | 0.96 | 382 | 0.8 |
| 1089115 | Soil | 0.9 | <0.1 | 2.85 | 7.5 | 1 | 394 | <0.1 | 0.67 | 0.1 | 22.3 | 29 | 114.2 | 4.60 | 9 | <0.01 | 0.60 | 3 | 1.72 | 471 | 0.4 |
| 1089114 | Soil | 7.3 | 0.1 | 2.13 | 4.4 | 1 | 216 | <0.1 | 0.34 | <0.1 | 22.5 | 38 | 41.4 | 3.47 | 7 | 0.02 | 0.18 | 7 | 1.07 | 899 | 1.0 |

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Project: TSL
Report Date: August 24, 2011



# CERTIFICATE OF ANALYSIS DAW11000161.1

| | 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 |
| 1162236 | Soil | 0.015 | 24.3 | 0.071 | 7.7 | <0.05 | 0.3 | 3.7 | <0.5 | 30 | <0.2 | 1.9 | 0.117 | <0.1 | 0.7 | 68 | <0.1 | 59 |
| 1162237 | Soil | 0.013 | 21.9 | 0.045 | 8.4 | <0.05 | 0.3 | 3.7 | <0.5 | 25 | <0.2 | 1.6 | 0.087 | 0.1 | 0.6 | 76 | 0.1 | 58 |
| 1162241 | Soil | 0.014 | 16.2 | 0.045 | 6.0 | <0.05 | 0.2 | 2.9 | <0.5 | 16 | <0.2 | 1.5 | 0.103 | <0.1 | 0.4 | 58 | <0.1 | 56 |
| 1162245 | Soil | 0.021 | 15.4 | 0.046 | 9.5 | <0.05 | 0.2 | 3.9 | <0.5 | 21 | <0.2 | 1.5 | 0.211 | 0.2 | 0.4 | 122 | <0.1 | 83 |
| 1162235 | Soil | 0.015 | 22.1 | 0.052 | 6.6 | <0.05 | 0.3 | 3.1 | <0.5 | 26 | <0.2 | 2.0 | 0.185 | 0.1 | 0.5 | 86 | <0.1 | 72 |
| 1162226 | Soil | 0.014 | 23.0 | 0.064 | 9.7 | <0.05 | 0.3 | 6.3 | <0.5 | 24 | <0.2 | 2.8 | 0.131 | <0.1 | 0.8 | 88 | 0.1 | 77 |
| 1089096 | Soil | 0.012 | 16.1 | 0.071 | 6.7 | <0.05 | 0.2 | 3.4 | <0.5 | 19 | <0.2 | 1.7 | 0.124 | <0.1 | 0.5 | 64 | 0.1 | 62 |
| 1089095 | Soil | 0.014 | 17.4 | 0.078 | 6.2 | <0.05 | 0.2 | 4.0 | <0.5 | 23 | <0.2 | 2.0 | 0.140 | <0.1 | 0.6 | 71 | 0.1 | 69 |
| 1089094 | Soil | 0.012 | 15.3 | 0.061 | 7.1 | <0.05 | 0.3 | 3.4 | 0.6 | 22 | <0.2 | 2.1 | 0.127 | <0.1 | 0.5 | 65 | 0.1 | 65 |
| 1089093 | Soil | 0.014 | 12.7 | 0.063 | 6.7 | 0.05 | 0.3 | 3.1 | 0.7 | 19 | <0.2 | 0.7 | 0.073 | <0.1 | 0.6 | 53 | 0.1 | 49 |
| 1089092 | Soil | 0.015 | 14.7 | 0.044 | 6.8 | <0.05 | 0.3 | 4.5 | <0.5 | 18 | <0.2 | 2.1 | 0.134 | 0.1 | 0.6 | 66 | 0.1 | 59 |
| 1089091 | Soil | 0.017 | 17.2 | 0.052 | 7.7 | <0.05 | 0.3 | 4.6 | 0.6 | 21 | <0.2 | 2.4 | 0.131 | <0.1 | 0.6 | 79 | 0.1 | 69 |
| 1162231 | Soil | 0.014 | 5.6 | 0.051 | 4.7 | <0.05 | 0.2 | 1.5 | <0.5 | 12 | <0.2 | 0.2 | 0.039 | <0.1 | 0.6 | 23 | <0.1 | 16 |
| 1162222 | Soil | 0.013 | 22.2 | 0.051 | 6.9 | <0.05 | 0.4 | 6.5 | <0.5 | 15 | <0.2 | 3.9 | 0.222 | 0.2 | 0.9 | 115 | <0.1 | 93 |
| 1162227 | Soil | 0.020 | 18.1 | 0.060 | 11.3 | <0.05 | 0.3 | 4.6 | 0.7 | 22 | <0.2 | 2.3 | 0.102 | <0.1 | 0.7 | 77 | 0.1 | 73 |
| 1162234 | Soil | 0.011 | 19.3 | 0.037 | 8.8 | <0.05 | 0.5 | 4.1 | <0.5 | 17 | <0.2 | 2.4 | 0.124 | 0.1 | 0.6 | 88 | 0.1 | 54 |
| 1162225 | Soil | 0.016 | 21.7 | 0.058 | 7.3 | <0.05 | 0.4 | 4.8 | <0.5 | 24 | <0.2 | 2.3 | 0.128 | <0.1 | 0.6 | 92 | 0.1 | 74 |
| 1162221 | Soil | 0.013 | 25.4 | 0.057 | 7.5 | <0.05 | 0.4 | 5.2 | 1.1 | 21 | <0.2 | 3.6 | 0.143 | 0.1 | 1.0 | 91 | 0.1 | 66 |
| 1162223 | Soil | 0.019 | 18.2 | 0.082 | 3.9 | 0.19 | 0.2 | 8.8 | 0.9 | 18 | <0.2 | 3.0 | 0.309 | 0.4 | 0.7 | 176 | <0.1 | 99 |
| 1162224 | Soil | 0.013 | 20.9 | 0.055 | 7.8 | <0.05 | 0.3 | 4.4 | 0.5 | 21 | <0.2 | 2.5 | 0.147 | 0.1 | 0.6 | 84 | 0.1 | 72 |
| 1162228 | Soil | 0.013 | 16.1 | 0.060 | 7.8 | <0.05 | 0.2 | 3.1 | <0.5 | 19 | <0.2 | 1.4 | 0.097 | <0.1 | 0.5 | 65 | 0.1 | 60 |
| 1162230 | Soil | 0.013 | 20.2 | 0.057 | 7.0 | <0.05 | 0.3 | 3.4 | <0.5 | 21 | <0.2 | 1.8 | 0.109 | <0.1 | 0.5 | 70 | 0.1 | 59 |
| 1089117 | Soil | 0.021 | 24.5 | 0.059 | 10.0 | <0.05 | 1.6 | 5.2 | 0.7 | 41 | <0.2 | 2.4 | 0.140 | 0.1 | 0.7 | 82 | <0.1 | 92 |
| 1089110 | Soil | 0.021 | 19.7 | 0.051 | 3.7 | <0.05 | 0.2 | 6.1 | 0.5 | 18 | <0.2 | 2.0 | 0.192 | <0.1 | 0.4 | 93 | <0.1 | 63 |
| 1089113 | Soil | 0.017 | 18.6 | 0.067 | 7.2 | <0.05 | 0.2 | 4.0 | <0.5 | 29 | <0.2 | 1.3 | 0.142 | 0.1 | 0.6 | 98 | <0.1 | 77 |
| 1089111 | Soil | 0.020 | 13.0 | 0.113 | 4.5 | <0.05 | 0.2 | 8.9 | 0.6 | 28 | <0.2 | 2.1 | 0.251 | 0.2 | 0.6 | 115 | <0.1 | 96 |
| 1089109 | Soil | 0.021 | 26.4 | 0.037 | 6.1 | <0.05 | 0.4 | 4.7 | <0.5 | 26 | <0.2 | 2.7 | 0.174 | <0.1 | 0.5 | 89 | 0.1 | 65 |
| 1089112 | Soil | 0.015 | 21.1 | 0.065 | 6.6 | <0.05 | 0.2 | 3.8 | 0.8 | 27 | <0.2 | 2.1 | 0.136 | <0.1 | 0.5 | 82 | <0.1 | 73 |
| 1089115 | Soil | 0.024 | 22.9 | 0.132 | 4.1 | <0.05 | 0.4 | 3.1 | <0.5 | 33 | <0.2 | 0.9 | 0.258 | 0.1 | 0.2 | 113 | <0.1 | 100 |
| 1089114 | Soil | 0.015 | 17.2 | 0.052 | 7.2 | <0.05 | 0.2 | 4.3 | 0.5 | 23 | <0.2 | 1.8 | 0.123 | <0.1 | 0.7 | 94 | <0.1 | 81 |

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Project: TSL
Report Date: August 24, 2011



# CERTIFICATE OF ANALYSIS DAW11000161.1

| | 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 |
| 1089116 | Soil | 3.2 | 0.1 | 1.61 | 8.8 | 2 | 279 | 0.1 | 0.31 | <0.1 | 11.8 | 28 | 32.0 | 3.00 | 6 | 0.03 | 0.13 | 8 | 0.72 | 420 | 1.0 |
| 1089100 | Soil | 2.9 | 0.2 | 1.90 | 4.9 | 1 | 173 | 0.1 | 0.28 | <0.1 | 9.5 | 33 | 39.0 | 2.61 | 6 | 0.05 | 0.12 | 10 | 0.76 | 175 | 0.5 |
| 1089102 | Soil | 2.9 | 0.1 | 1.52 | 5.1 | <1 | 153 | 0.1 | 0.30 | 0.2 | 9.1 | 24 | 49.8 | 2.38 | 5 | 0.04 | 0.06 | 9 | 0.45 | 253 | 0.9 |
| 1089103 | Soil | 4.2 | <0.1 | 1.69 | 6.1 | 1 | 152 | 0.1 | 0.28 | 0.1 | 8.6 | 28 | 30.6 | 2.32 | 5 | 0.04 | 0.06 | 11 | 0.54 | 200 | 0.6 |
| 1089101 | Soil | 2.4 | <0.1 | 1.78 | 6.2 | 1 | 148 | 0.2 | 0.24 | <0.1 | 7.7 | 27 | 37.6 | 2.77 | 8 | 0.03 | 0.08 | 9 | 0.53 | 222 | 0.9 |
| 1089098 | Soil | 1.9 | 0.1 | 1.69 | 4.7 | 2 | 157 | 0.1 | 0.30 | <0.1 | 8.8 | 26 | 19.1 | 2.57 | 6 | 0.04 | 0.09 | 8 | 0.71 | 183 | 0.4 |
| 1089099 | Soil | 2.2 | 0.2 | 1.58 | 4.4 | <1 | 135 | 0.1 | 0.30 | 0.1 | 6.6 | 28 | 31.7 | 2.03 | 6 | 0.05 | 0.06 | 8 | 0.56 | 121 | 0.4 |
| 1089097 | Soil | 0.8 | <0.1 | 1.65 | 5.0 | <1 | 198 | 0.1 | 0.32 | 0.1 | 9.2 | 26 | 18.8 | 2.63 | 6 | 0.02 | 0.21 | 7 | 0.88 | 295 | 0.8 |
| 1162246 | Soil | 1.5 | 0.2 | 1.80 | 6.0 | 4 | 809 | <0.1 | 1.36 | 0.3 | 16.7 | 20 | 41.6 | 3.68 | 6 | 0.07 | 0.30 | 22 | 0.70 | 808 | 0.7 |
| 1162114 | Soil | 3.0 | 0.1 | 2.04 | 4.0 | 1 | 269 | 0.1 | 0.31 | 0.1 | 10.7 | 25 | 43.7 | 3.17 | 7 | 0.02 | 0.31 | 8 | 1.05 | 301 | 1.7 |
| 1162111 | Soil | 2.4 | 0.3 | 2.35 | 2.8 | 1 | 224 | 0.1 | 0.35 | 0.1 | 11.2 | 38 | 36.7 | 2.59 | 7 | 0.08 | 0.33 | 6 | 1.23 | 292 | 0.5 |
| 1162105 | Soil | 2.4 | <0.1 | 2.13 | 8.8 | 2 | 281 | 0.1 | 0.35 | <0.1 | 10.3 | 32 | 19.6 | 3.01 | 6 | 0.04 | 0.07 | 11 | 0.76 | 398 | 0.8 |
| 1162109 | Soil | 1.4 | <0.1 | 2.89 | 2.9 | <1 | 248 | <0.1 | 0.45 | <0.1 | 20.4 | 38 | 61.8 | 4.07 | 7 | <0.01 | 0.66 | 5 | 2.00 | 551 | 0.6 |
| 1162112 | Soil | 2.6 | <0.1 | 2.43 | 3.8 | 1 | 240 | <0.1 | 0.37 | <0.1 | 16.1 | 41 | 46.7 | 3.45 | 6 | <0.01 | 0.25 | 6 | 1.46 | 387 | 0.5 |
| 1162106 | Soil | 2.4 | 0.1 | 1.88 | 6.0 | 2 | 181 | 0.1 | 0.40 | <0.1 | 10.1 | 31 | 23.9 | 2.72 | 6 | 0.02 | 0.08 | 7 | 0.83 | 264 | 0.8 |
| 1162104 | Soil | 4.0 | 0.2 | 1.92 | 10.3 | 2 | 281 | 0.1 | 0.76 | 0.1 | 13.3 | 50 | 34.1 | 2.88 | 5 | 0.05 | 0.07 | 14 | 0.79 | 648 | 2.3 |
| 1162108 | Soil | 2.1 | <0.1 | 2.90 | 5.2 | <1 | 232 | <0.1 | 0.32 | 0.2 | 15.8 | 46 | 59.6 | 3.82 | 9 | 0.02 | 0.38 | 5 | 1.58 | 430 | 1.0 |
| 1162107 | Soil | 1.8 | 0.1 | 1.71 | 5.7 | 1 | 179 | 0.1 | 0.39 | <0.1 | 9.2 | 29 | 23.6 | 2.53 | 6 | 0.02 | 0.08 | 7 | 0.76 | 240 | 0.8 |
| 1162103 | Soil | 1.3 | <0.1 | 2.02 | 4.8 | <1 | 297 | <0.1 | 0.46 | <0.1 | 13.6 | 31 | 28.5 | 3.28 | 6 | 0.03 | 0.21 | 9 | 1.07 | 392 | 0.5 |
| 1162102 | Soil | 2.2 | <0.1 | 2.04 | 5.2 | 1 | 323 | <0.1 | 0.48 | <0.1 | 13.6 | 30 | 29.7 | 3.29 | 6 | 0.02 | 0.23 | 9 | 1.09 | 402 | 0.5 |
| 1162101 | Soil | 3.1 | <0.1 | 1.90 | 5.5 | <1 | 212 | 0.1 | 0.35 | 0.1 | 11.3 | 29 | 24.5 | 2.95 | 6 | 0.02 | 0.08 | 8 | 0.90 | 356 | 0.7 |
| 1162120 | Soil | 0.8 | <0.1 | 1.51 | 4.1 | 2 | 212 | <0.1 | 0.41 | 0.1 | 17.9 | 14 | 50.2 | 4.13 | 6 | 0.02 | 0.14 | 5 | 0.72 | 499 | 0.3 |
| 1162113 | Soil | 2.5 | <0.1 | 1.96 | 5.6 | 2 | 158 | 0.1 | 0.35 | 0.1 | 13.6 | 32 | 39.4 | 3.10 | 6 | 0.02 | 0.14 | 7 | 1.04 | 373 | 0.6 |
| 1162119 | Soil | 0.9 | <0.1 | 1.40 | 5.1 | 2 | 213 | <0.1 | 0.27 | 0.1 | 19.5 | 21 | 21.7 | 2.93 | 5 | 0.03 | 0.09 | 7 | 0.53 | 1078 | 0.8 |
| 1089006 | Soil | 1.3 | <0.1 | 2.46 | 7.5 | 1 | 187 | 0.1 | 0.31 | <0.1 | 13.4 | 31 | 35.2 | 3.54 | 7 | 0.02 | 0.13 | 8 | 0.90 | 470 | 1.0 |
| 1089005 | Soil | 2.1 | <0.1 | 2.55 | 7.4 | 1 | 195 | 0.1 | 0.22 | <0.1 | 13.3 | 30 | 35.1 | 3.68 | 8 | 0.02 | 0.24 | 8 | 1.11 | 367 | 0.9 |
| 1089003 | Soil | 5.5 | <0.1 | 2.09 | 7.6 | 1 | 218 | 0.1 | 0.33 | <0.1 | 10.9 | 32 | 64.0 | 2.96 | 6 | 0.03 | 0.08 | 10 | 0.73 | 312 | 0.9 |
| 1089004 | Soil | 3.8 | 0.1 | 2.36 | 9.7 | 2 | 244 | 0.2 | 0.24 | <0.1 | 12.5 | 35 | 39.1 | 3.29 | 6 | 0.03 | 0.11 | 9 | 0.70 | 354 | 1.1 |
| 1089001 | Soil | 2.4 | <0.1 | 1.94 | 8.4 | 2 | 192 | 0.1 | 0.18 | <0.1 | 14.2 | 29 | 37.7 | 3.14 | 6 | 0.01 | 0.13 | 6 | 0.88 | 296 | 1.0 |
| 1089036 | Soil | 2.3 | <0.1 | 1.15 | 6.5 | <1 | 202 | <0.1 | 0.32 | <0.1 | 10.1 | 6 | 75.5 | 3.87 | 3 | 0.06 | 0.14 | 9 | 0.36 | 147 | 2.0 |

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Project: TSL
Report Date: August 24, 2011



# CERTIFICATE OF ANALYSIS DAW11000161.1

| | 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 |
| 1089116 | Soil | 0.012 | 17.7 | 0.038 | 8.0 | <0.05 | 1.1 | 3.3 | <0.5 | 23 | <0.2 | 2.2 | 0.091 | <0.1 | 0.5 | 69 | <0.1 | 62 |
| 1089100 | Soil | 0.016 | 17.7 | 0.060 | 6.7 | <0.05 | 0.3 | 3.4 | 0.6 | 19 | <0.2 | 1.9 | 0.100 | 0.1 | 0.7 | 57 | <0.1 | 53 |
| 1089102 | Soil | 0.021 | 12.7 | 0.092 | 6.7 | <0.05 | 0.3 | 1.2 | <0.5 | 18 | <0.2 | 0.1 | 0.030 | <0.1 | 0.6 | 56 | <0.1 | 42 |
| 1089103 | Soil | 0.016 | 16.0 | 0.079 | 6.7 | <0.05 | 0.3 | 2.5 | <0.5 | 18 | <0.2 | 1.1 | 0.053 | <0.1 | 0.6 | 53 | 0.1 | 51 |
| 1089101 | Soil | 0.017 | 11.3 | 0.037 | 7.9 | <0.05 | 0.3 | 2.9 | <0.5 | 17 | <0.2 | 0.8 | 0.096 | <0.1 | 0.5 | 80 | <0.1 | 46 |
| 1089098 | Soil | 0.015 | 13.7 | 0.066 | 6.6 | <0.05 | 0.2 | 3.2 | <0.5 | 19 | <0.2 | 1.7 | 0.102 | 0.1 | 0.5 | 61 | <0.1 | 59 |
| 1089099 | Soil | 0.022 | 13.4 | 0.077 | 6.9 | <0.05 | 0.2 | 2.7 | <0.5 | 19 | <0.2 | 0.8 | 0.067 | 0.1 | 0.6 | 49 | <0.1 | 48 |
| 1089097 | Soil | 0.012 | 14.7 | 0.071 | 5.5 | <0.05 | 0.2 | 3.0 | <0.5 | 21 | <0.2 | 1.6 | 0.125 | 0.1 | 0.4 | 74 | 0.1 | 63 |
| 1162246 | Soil | 0.019 | 14.1 | 0.066 | 19.2 | 0.09 | 0.2 | 5.9 | 0.5 | 64 | <0.2 | 1.7 | 0.088 | 0.3 | 2.1 | 95 | <0.1 | 85 |
| 1162114 | Soil | 0.019 | 14.5 | 0.049 | 6.8 | 0.12 | 0.2 | 4.2 | 1.1 | 24 | <0.2 | 2.0 | 0.109 | <0.1 | 0.6 | 78 | <0.1 | 97 |
| 1162111 | Soil | 0.017 | 16.8 | 0.058 | 7.0 | 0.07 | 0.2 | 4.0 | <0.5 | 22 | <0.2 | 1.1 | 0.135 | 0.1 | 0.7 | 77 | <0.1 | 60 |
| 1162105 | Soil | 0.011 | 22.6 | 0.059 | 8.0 | <0.05 | 0.4 | 3.3 | <0.5 | 22 | <0.2 | 3.1 | 0.088 | 0.1 | 0.7 | 66 | 0.1 | 58 |
| 1162109 | Soil | 0.019 | 21.5 | 0.065 | 4.8 | <0.05 | 0.2 | 3.3 | <0.5 | 24 | <0.2 | 1.2 | 0.199 | <0.1 | 0.3 | 118 | <0.1 | 90 |
| 1162112 | Soil | 0.020 | 21.0 | 0.043 | 4.6 | <0.05 | 0.2 | 4.0 | <0.5 | 20 | <0.2 | 1.5 | 0.151 | <0.1 | 0.5 | 97 | <0.1 | 62 |
| 1162106 | Soil | 0.013 | 19.1 | 0.042 | 6.8 | <0.05 | 0.3 | 2.6 | <0.5 | 24 | <0.2 | 1.9 | 0.120 | 0.1 | 0.4 | 74 | 0.1 | 54 |
| 1162104 | Soil | 0.033 | 43.5 | 0.047 | 13.6 | <0.05 | 0.5 | 4.0 | 0.5 | 30 | 0.3 | 2.0 | 0.079 | <0.1 | 0.4 | 67 | 0.1 | 64 |
| 1162108 | Soil | 0.020 | 23.2 | 0.044 | 6.4 | <0.05 | 0.2 | 3.5 | <0.5 | 21 | <0.2 | 1.3 | 0.188 | 0.1 | 0.4 | 118 | <0.1 | 64 |
| 1162107 | Soil | 0.013 | 17.6 | 0.039 | 6.5 | <0.05 | 0.2 | 2.3 | <0.5 | 23 | <0.2 | 1.7 | 0.109 | 0.1 | 0.4 | 71 | <0.1 | 50 |
| 1162103 | Soil | 0.017 | 20.2 | 0.069 | 6.3 | <0.05 | 0.3 | 3.9 | <0.5 | 28 | <0.2 | 2.3 | 0.153 | <0.1 | 0.5 | 88 | <0.1 | 68 |
| 1162102 | Soil | 0.018 | 19.9 | 0.072 | 6.1 | <0.05 | 0.3 | 4.0 | <0.5 | 30 | <0.2 | 2.4 | 0.157 | 0.1 | 0.6 | 88 | 0.1 | 70 |
| 1162101 | Soil | 0.016 | 17.7 | 0.046 | 6.6 | <0.05 | 0.3 | 4.1 | <0.5 | 23 | <0.2 | 2.2 | 0.114 | <0.1 | 0.5 | 82 | 0.1 | 59 |
| 1162120 | Soil | 0.026 | 11.8 | 0.068 | 5.5 | <0.05 | 0.3 | 5.4 | <0.5 | 19 | <0.2 | 1.4 | 0.073 | <0.1 | 0.3 | 102 | <0.1 | 82 |
| 1162113 | Soil | 0.013 | 21.1 | 0.047 | 5.7 | <0.05 | 0.3 | 3.0 | <0.5 | 21 | <0.2 | 1.8 | 0.119 | 0.1 | 0.4 | 81 | 0.1 | 65 |
| 1162119 | Soil | 0.021 | 12.8 | 0.048 | 9.6 | <0.05 | 0.2 | 2.8 | <0.5 | 17 | <0.2 | 2.3 | 0.086 | <0.1 | 0.4 | 74 | 0.1 | 65 |
| 1089006 | Soil | 0.009 | 20.5 | 0.050 | 6.9 | <0.05 | 0.5 | 4.4 | <0.5 | 22 | <0.2 | 2.6 | 0.089 | <0.1 | 0.5 | 81 | 0.1 | 65 |
| 1089005 | Soil | 0.011 | 19.8 | 0.025 | 6.5 | <0.05 | 0.3 | 5.0 | <0.5 | 19 | <0.2 | 2.7 | 0.140 | <0.1 | 0.5 | 99 | <0.1 | 62 |
| 1089003 | Soil | 0.012 | 21.3 | 0.054 | 7.3 | <0.05 | 0.3 | 3.6 | <0.5 | 23 | <0.2 | 2.1 | 0.093 | <0.1 | 0.6 | 74 | <0.1 | 57 |
| 1089004 | Soil | 0.010 | 23.1 | 0.044 | 8.2 | <0.05 | 0.5 | 3.6 | <0.5 | 19 | <0.2 | 3.4 | 0.097 | 0.1 | 0.7 | 76 | 0.1 | 58 |
| 1089001 | Soil | 0.010 | 20.6 | 0.022 | 6.7 | <0.05 | 0.4 | 2.5 | <0.5 | 13 | <0.2 | 2.2 | 0.132 | <0.1 | 0.4 | 84 | <0.1 | 50 |
| 1089036 | Soil | 0.026 | 12.9 | 0.045 | 5.6 | 0.14 | 5.9 | 6.9 | <0.5 | 33 | <0.2 | 2.0 | 0.003 | <0.1 | 0.5 | 77 | <0.1 | 65 |

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Project: TSL
Report Date: August 24, 2011



# CERTIFICATE OF ANALYSIS DAW11000161.1

| | 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 |
| 1089042 | Soil | 3.4 | <0.1 | 1.90 | 9.9 | 2 | 271 | 0.1 | 0.36 | <0.1 | 10.6 | 32 | 27.8 | 2.92 | 6 | 0.04 | 0.07 | 11 | 0.75 | 326 | 0.9 |
| 1090945 | Soil | 2.6 | 0.2 | 2.21 | 5.4 | 1 | 526 | <0.1 | 0.40 | 0.1 | 13.3 | 29 | 41.4 | 3.43 | 7 | 0.03 | 0.39 | 11 | 1.30 | 400 | 0.7 |
| 1090946 | Soil | 6.3 | 0.1 | 1.96 | 6.4 | 1 | 270 | 0.1 | 0.34 | <0.1 | 13.1 | 29 | 40.3 | 3.11 | 6 | 0.02 | 0.07 | 10 | 0.77 | 365 | 0.8 |
| 1089032 | Soil | 0.7 | <0.1 | 2.18 | 2.7 | <1 | 344 | <0.1 | 0.48 | <0.1 | 16.8 | 92 | 27.7 | 3.24 | 7 | <0.01 | 0.52 | 4 | 1.67 | 372 | 0.4 |
| 1167890 | Soil | 1.6 | 0.1 | 1.65 | 6.6 | <1 | 192 | 0.1 | 0.29 | <0.1 | 10.4 | 24 | 22.6 | 3.13 | 7 | 0.02 | 0.17 | 9 | 0.70 | 330 | 0.9 |
| 1089035 | Soil | 1.9 | <0.1 | 1.90 | 5.9 | 1 | 220 | 0.1 | 0.37 | <0.1 | 13.5 | 32 | 28.7 | 3.32 | 6 | 0.01 | 0.11 | 7 | 1.06 | 369 | 0.7 |
| 1167832 | Soil | 1.9 | <0.1 | 2.16 | 7.7 | <1 | 203 | 0.2 | 0.30 | <0.1 | 14.8 | 35 | 48.7 | 3.68 | 7 | 0.02 | 0.06 | 9 | 0.81 | 465 | 0.9 |
| 1089034 | Soil | 1.7 | 0.1 | 1.64 | 4.2 | <1 | 318 | <0.1 | 0.36 | <0.1 | 16.7 | 44 | 79.9 | 2.56 | 5 | 0.01 | 0.15 | 7 | 0.97 | 257 | 0.7 |
| 1089033 | Soil | 1.7 | <0.1 | 1.67 | 5.7 | 3 | 327 | <0.1 | 0.23 | <0.1 | 32.4 | 314 | 37.1 | 3.23 | 5 | 0.01 | 0.04 | 9 | 2.83 | 365 | 0.6 |
| 1167831 | Soil | 1.5 | <0.1 | 2.31 | 7.2 | <1 | 191 | 0.1 | 0.21 | 0.1 | 13.2 | 26 | 41.8 | 3.69 | 8 | 0.02 | 0.22 | 10 | 0.98 | 482 | 0.7 |
| 1089031 | Soil | 2.0 | <0.1 | 2.55 | 2.9 | <1 | 780 | <0.1 | 0.46 | <0.1 | 16.2 | 29 | 46.6 | 4.18 | 9 | <0.01 | 1.04 | 8 | 1.69 | 692 | 0.7 |
| 1167888 | Soil | 11.1 | <0.1 | 2.28 | 10.2 | <1 | 162 | 0.1 | 0.26 | 0.1 | 14.9 | 34 | 80.9 | 3.16 | 6 | 0.03 | 0.06 | 10 | 0.72 | 345 | 0.8 |
| 1167887 | Soil | 1.1 | <0.1 | 2.68 | 11.1 | 2 | 211 | 0.2 | 0.13 | 0.2 | 15.0 | 37 | 22.6 | 3.27 | 7 | 0.02 | 0.06 | 8 | 0.71 | 282 | 0.8 |
| 1160282 | Soil | 2.3 | 0.1 | 2.62 | 11.0 | 1 | 299 | 0.1 | 0.32 | 0.1 | 17.5 | 35 | 75.7 | 4.02 | 8 | 0.03 | 0.33 | 10 | 1.14 | 444 | 1.1 |
| 1167885 | Soil | 3.9 | <0.1 | 2.67 | 5.8 | 2 | 354 | 0.1 | 0.31 | 0.1 | 15.1 | 33 | 36.0 | 3.68 | 7 | 0.01 | 0.39 | 11 | 1.42 | 437 | 0.7 |
| 1167886 | Soil | 4.2 | 0.1 | 1.78 | 6.1 | <1 | 230 | 0.2 | 0.28 | 0.1 | 9.1 | 32 | 29.6 | 2.54 | 6 | 0.03 | 0.07 | 12 | 0.69 | 187 | 0.6 |
| 1167889 | Soil | 2.4 | <0.1 | 2.18 | 9.6 | <1 | 157 | 0.2 | 0.24 | <0.1 | 10.7 | 48 | 30.2 | 3.17 | 7 | 0.03 | 0.11 | 9 | 0.80 | 364 | 0.9 |
| 1167884 | Soil | 2.7 | 0.1 | 2.14 | 5.4 | <1 | 276 | 0.1 | 0.36 | <0.1 | 12.3 | 30 | 42.0 | 3.11 | 7 | 0.02 | 0.23 | 12 | 0.96 | 370 | 0.8 |
| 1160286 | Soil | 2.9 | <0.1 | 2.11 | 4.8 | <1 | 213 | <0.1 | 0.36 | <0.1 | 12.7 | 30 | 55.3 | 3.08 | 6 | 0.01 | 0.19 | 10 | 1.06 | 326 | 0.6 |
| 1167883 | Soil | 3.5 | <0.1 | 2.39 | 6.9 | 1 | 229 | 0.1 | 0.36 | <0.1 | 14.3 | 31 | 51.5 | 3.57 | 8 | 0.01 | 0.22 | 9 | 1.03 | 432 | 0.9 |
| 1160284 | Soil | 3.0 | 0.2 | 2.48 | 4.6 | <1 | 263 | <0.1 | 0.47 | <0.1 | 14.5 | 31 | 77.6 | 3.70 | 8 | 0.03 | 0.34 | 11 | 1.34 | 350 | 0.7 |
| 1160285 | Soil | 1.7 | <0.1 | 2.22 | 4.3 | <1 | 175 | 0.1 | 0.35 | 0.1 | 13.0 | 30 | 42.0 | 3.03 | 6 | 0.01 | 0.20 | 8 | 1.01 | 358 | 0.6 |
| 1160283 | Soil | 2.6 | 0.2 | 2.60 | 9.4 | 1 | 226 | 0.2 | 0.31 | <0.1 | 13.4 | 37 | 61.0 | 3.32 | 8 | 0.05 | 0.20 | 9 | 0.97 | 289 | 0.8 |
| 1089039 | Soil | 3.1 | <0.1 | 1.55 | 267.3 | 2 | 245 | <0.1 | 0.62 | 0.2 | 13.9 | 32 | 30.7 | 3.38 | 5 | 0.18 | 0.09 | 13 | 0.52 | 363 | 1.4 |
| 1089037 | Soil | 4.0 | <0.1 | 2.00 | 9.6 | <1 | 265 | 0.1 | 0.38 | <0.1 | 11.2 | 36 | 30.1 | 3.06 | 6 | 0.02 | 0.07 | 11 | 0.82 | 335 | 1.1 |
| 1089040 | Soil | 8.6 | 0.1 | 1.77 | 10.2 | <1 | 317 | <0.1 | 0.57 | 0.1 | 11.9 | 34 | 37.1 | 2.86 | 6 | 0.04 | 0.09 | 10 | 0.85 | 332 | 1.2 |
| 1089041 | Soil | 4.4 | <0.1 | 1.82 | 5.3 | <1 | 202 | <0.1 | 0.52 | 0.1 | 13.2 | 30 | 30.5 | 2.89 | 6 | 0.01 | 0.08 | 8 | 0.85 | 324 | 0.7 |
| 1089038 | Soil | 0.7 | <0.1 | 2.86 | 4.5 | <1 | 233 | <0.1 | 0.88 | 0.1 | 21.2 | 27 | 38.1 | 4.84 | 9 | <0.01 | 0.05 | 3 | 1.70 | 676 | 0.7 |
| 1162195 | Soil | 1.5 | <0.1 | 2.49 | 4.4 | <1 | 267 | <0.1 | 0.52 | <0.1 | 19.6 | 39 | 48.0 | 3.57 | 6 | 0.02 | 0.52 | 7 | 1.65 | 461 | 0.6 |
| 1162191 | Soil | 1.9 | 0.1 | 2.03 | 5.3 | <1 | 252 | 0.1 | 0.43 | 0.1 | 10.2 | 35 | 38.4 | 2.73 | 6 | 0.03 | 0.05 | 12 | 0.81 | 284 | 0.8 |

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Project: TSL
Report Date: August 24, 2011



# CERTIFICATE OF ANALYSIS DAW11000161.1

| | 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 |
| 1089042 | Soil | 0.016 | 17.6 | 0.038 | 7.6 | <0.05 | 0.7 | 4.0 | <0.5 | 25 | <0.2 | 3.1 | 0.103 | <0.1 | 0.7 | 73 | <0.1 | 59 |
| 1090945 | Soil | 0.015 | 15.1 | 0.065 | 4.8 | <0.05 | 0.2 | 5.8 | <0.5 | 22 | <0.2 | 2.9 | 0.167 | 0.2 | 0.8 | 87 | <0.1 | 71 |
| 1090946 | Soil | 0.023 | 15.6 | 0.059 | 6.1 | <0.05 | 0.3 | 3.8 | <0.5 | 18 | <0.2 | 2.9 | 0.104 | <0.1 | 0.7 | 85 | <0.1 | 52 |
| 1089032 | Soil | 0.018 | 37.2 | 0.072 | 3.5 | <0.05 | <0.1 | 2.6 | <0.5 | 26 | <0.2 | 1.1 | 0.200 | 0.1 | 0.3 | 88 | <0.1 | 60 |
| 1167890 | Soil | 0.013 | 13.2 | 0.050 | 7.1 | <0.05 | 0.3 | 2.4 | <0.5 | 18 | <0.2 | 2.0 | 0.119 | <0.1 | 0.4 | 101 | <0.1 | 51 |
| 1089035 | Soil | 0.016 | 17.1 | 0.047 | 6.3 | <0.05 | 0.4 | 4.1 | <0.5 | 24 | <0.2 | 2.2 | 0.147 | <0.1 | 0.4 | 96 | <0.1 | 59 |
| 1167832 | Soil | 0.018 | 17.9 | 0.050 | 7.6 | <0.05 | 0.5 | 4.6 | 0.6 | 20 | <0.2 | 3.0 | 0.117 | <0.1 | 0.6 | 97 | 0.1 | 60 |
| 1089034 | Soil | 0.019 | 19.3 | 0.040 | 5.1 | <0.05 | 0.2 | 3.1 | <0.5 | 23 | <0.2 | 1.7 | 0.139 | <0.1 | 0.5 | 68 | <0.1 | 49 |
| 1089033 | Soil | 0.012 | 280.7 | 0.026 | 6.3 | <0.05 | 0.2 | 3.9 | <0.5 | 16 | <0.2 | 2.5 | 0.101 | 0.1 | 0.8 | 59 | <0.1 | 44 |
| 1167831 | Soil | 0.016 | 18.7 | 0.039 | 6.3 | <0.05 | 0.3 | 4.5 | <0.5 | 16 | <0.2 | 3.4 | 0.201 | 0.1 | 0.6 | 96 | 0.1 | 78 |
| 1089031 | Soil | 0.018 | 14.2 | 0.101 | 4.6 | <0.05 | 0.1 | 6.7 | <0.5 | 24 | <0.2 | 3.9 | 0.258 | 0.2 | 0.6 | 102 | <0.1 | 86 |
| 1167888 | Soil | 0.018 | 26.6 | 0.052 | 8.5 | <0.05 | 0.6 | 4.2 | <0.5 | 22 | <0.2 | 4.2 | 0.096 | <0.1 | 0.8 | 70 | 0.1 | 57 |
| 1167887 | Soil | 0.012 | 31.5 | 0.026 | 9.8 | <0.05 | 0.6 | 3.4 | <0.5 | 14 | <0.2 | 3.6 | 0.102 | <0.1 | 0.5 | 75 | 0.1 | 62 |
| 1160282 | Soil | 0.015 | 19.7 | 0.057 | 8.0 | <0.05 | 0.4 | 5.7 | <0.5 | 24 | <0.2 | 2.8 | 0.179 | 0.2 | 0.8 | 111 | 0.1 | 75 |
| 1167885 | Soil | 0.015 | 21.3 | 0.060 | 7.0 | <0.05 | 0.3 | 6.0 | <0.5 | 24 | <0.2 | 3.5 | 0.202 | 0.2 | 0.7 | 92 | 0.1 | 70 |
| 1167886 | Soil | 0.012 | 19.2 | 0.074 | 9.4 | <0.05 | 0.4 | 3.4 | <0.5 | 25 | <0.2 | 1.5 | 0.084 | 0.1 | 0.8 | 56 | 0.1 | 58 |
| 1167889 | Soil | 0.012 | 25.2 | 0.063 | 9.9 | <0.05 | 0.4 | 3.4 | <0.5 | 18 | <0.2 | 2.9 | 0.124 | <0.1 | 0.5 | 73 | 0.2 | 61 |
| 1167884 | Soil | 0.015 | 22.0 | 0.063 | 7.2 | <0.05 | 0.3 | 4.6 | <0.5 | 28 | <0.2 | 2.7 | 0.150 | 0.1 | 0.8 | 77 | 0.1 | 68 |
| 1160286 | Soil | 0.015 | 19.0 | 0.059 | 6.1 | <0.05 | 0.2 | 3.7 | <0.5 | 27 | <0.2 | 2.8 | 0.160 | <0.1 | 0.6 | 77 | 0.1 | 64 |
| 1167883 | Soil | 0.014 | 21.4 | 0.058 | 7.7 | <0.05 | 0.3 | 4.4 | <0.5 | 28 | <0.2 | 2.5 | 0.164 | <0.1 | 0.6 | 92 | 0.1 | 74 |
| 1160284 | Soil | 0.018 | 17.7 | 0.067 | 7.5 | <0.05 | 0.2 | 6.6 | <0.5 | 32 | <0.2 | 2.8 | 0.188 | 0.1 | 0.8 | 110 | <0.1 | 71 |
| 1160285 | Soil | 0.016 | 19.6 | 0.065 | 6.5 | <0.05 | 0.2 | 3.9 | <0.5 | 26 | <0.2 | 2.4 | 0.151 | 0.1 | 0.6 | 80 | 0.1 | 67 |
| 1160283 | Soil | 0.015 | 19.9 | 0.063 | 10.2 | <0.05 | 0.4 | 5.4 | <0.5 | 23 | <0.2 | 2.0 | 0.137 | 0.1 | 0.8 | 92 | 0.1 | 67 |
| 1089039 | Soil | 0.015 | 25.7 | 0.080 | 19.8 | 0.06 | 26.2 | 8.8 | <0.5 | 53 | <0.2 | 3.6 | 0.020 | 0.6 | 0.7 | 72 | <0.1 | 75 |
| 1089037 | Soil | 0.017 | 20.6 | 0.038 | 14.9 | <0.05 | 0.8 | 4.4 | <0.5 | 27 | <0.2 | 3.2 | 0.123 | <0.1 | 0.7 | 78 | <0.1 | 63 |
| 1089040 | Soil | 0.021 | 19.7 | 0.046 | 14.3 | <0.05 | 0.6 | 4.6 | <0.5 | 31 | <0.2 | 2.5 | 0.121 | <0.1 | 0.8 | 75 | 0.1 | 60 |
| 1089041 | Soil | 0.029 | 16.2 | 0.067 | 8.7 | <0.05 | 0.3 | 3.9 | <0.5 | 32 | <0.2 | 2.5 | 0.148 | <0.1 | 0.6 | 78 | <0.1 | 62 |
| 1089038 | Soil | 0.042 | 15.3 | 0.120 | 9.1 | <0.05 | 0.2 | 5.7 | <0.5 | 43 | <0.2 | 1.1 | 0.164 | <0.1 | 0.3 | 124 | <0.1 | 82 |
| 1162195 | Soil | 0.019 | 23.5 | 0.056 | 6.7 | <0.05 | 0.2 | 3.1 | <0.5 | 32 | <0.2 | 1.9 | 0.234 | 0.2 | 0.4 | 108 | <0.1 | 64 |
| 1162191 | Soil | 0.020 | 23.4 | 0.053 | 10.7 | <0.05 | 0.4 | 4.9 | <0.5 | 35 | <0.2 | 2.9 | 0.108 | <0.1 | 0.9 | 73 | 0.1 | 62 |

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Project: TSL
Report Date: August 24, 2011



# CERTIFICATE OF ANALYSIS DAW11000161.1

| | 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 |
| 1162215 | Soil | 2.0 | 0.4 | 2.20 | 4.9 | 3 | 326 | 0.1 | 0.83 | 0.2 | 25.3 | 20 | 88.4 | 5.76 | 7 | 0.04 | 0.10 | 15 | 1.04 | 794 | 0.6 |
| 1162193 | Soil | 1.6 | <0.1 | 2.90 | 7.0 | <1 | 359 | 0.2 | 0.38 | 0.1 | 20.9 | 36 | 27.1 | 4.20 | 8 | 0.01 | 0.28 | 7 | 1.61 | 416 | 0.7 |
| 1162196 | Soil | 3.9 | 0.1 | 2.42 | 7.1 | <1 | 203 | 0.1 | 0.36 | 0.2 | 16.2 | 44 | 52.2 | 3.53 | 7 | 0.02 | 0.21 | 10 | 1.32 | 461 | 1.0 |
| 1162201 | Soil | 3.1 | 0.1 | 2.02 | 4.2 | <1 | 154 | 0.1 | 0.28 | <0.1 | 12.4 | 32 | 33.4 | 2.87 | 6 | 0.05 | 0.16 | 6 | 1.08 | 284 | 0.5 |
| 1162197 | Soil | 1.6 | <0.1 | 3.30 | 2.6 | <1 | 317 | <0.1 | 0.41 | 0.1 | 26.0 | 60 | 83.7 | 4.82 | 11 | <0.01 | 0.92 | 5 | 2.21 | 833 | 1.0 |
| 1162200 | Soil | 2.8 | 0.1 | 2.10 | 4.7 | 2 | 157 | 0.1 | 0.29 | 0.1 | 11.2 | 35 | 29.5 | 2.81 | 7 | 0.04 | 0.13 | 8 | 1.02 | 226 | 0.6 |
| 1162202 | Soil | 1.7 | 0.1 | 2.08 | 3.5 | 2 | 168 | 0.1 | 0.30 | <0.1 | 13.8 | 35 | 40.8 | 2.95 | 7 | 0.04 | 0.10 | 5 | 1.13 | 282 | 0.7 |
| 1162192 | Soil | 2.7 | <0.1 | 1.78 | 5.2 | 1 | 203 | 0.1 | 0.36 | 0.1 | 12.3 | 29 | 27.2 | 2.78 | 6 | 0.01 | 0.12 | 11 | 0.91 | 294 | 0.6 |
| 1162199 | Soil | 2.3 | <0.1 | 2.12 | 4.2 | 1 | 212 | <0.1 | 0.35 | <0.1 | 15.1 | 36 | 36.9 | 3.13 | 6 | 0.02 | 0.23 | 10 | 1.26 | 405 | 0.6 |
| 1162194 | Soil | 3.0 | <0.1 | 2.08 | 8.0 | 1 | 319 | 0.1 | 0.47 | 0.1 | 11.7 | 34 | 38.7 | 2.88 | 6 | 0.03 | 0.09 | 15 | 0.84 | 353 | 0.8 |
| 1162198 | Soil | 1.8 | <0.1 | 3.30 | 2.6 | <1 | 310 | <0.1 | 0.42 | 0.2 | 25.1 | 62 | 82.0 | 4.71 | 10 | <0.01 | 0.89 | 5 | 2.21 | 820 | 0.9 |
| 1162204 | Soil | 4.7 | 0.1 | 2.08 | 4.3 | 2 | 235 | 0.1 | 0.27 | 0.2 | 15.4 | 27 | 31.2 | 3.70 | 7 | 0.04 | 0.22 | 11 | 0.92 | 631 | 1.2 |
| 1089106 | Soil | 4.0 | <0.1 | 2.70 | 8.5 | 2 | 347 | 0.2 | 0.30 | 0.1 | 14.4 | 38 | 34.2 | 3.83 | 7 | 0.03 | 0.11 | 11 | 0.93 | 416 | 0.9 |
| 1089107 | Soil | 3.4 | <0.1 | 4.10 | 3.8 | 1 | 777 | <0.1 | 0.89 | <0.1 | 21.4 | 30 | 76.8 | 6.34 | 14 | 0.02 | 1.23 | 11 | 3.11 | 572 | 2.4 |
| 1089105 | Soil | 3.0 | <0.1 | 3.10 | 3.5 | 2 | 380 | <0.1 | 0.32 | <0.1 | 17.0 | 30 | 40.8 | 5.23 | 12 | 0.02 | 0.73 | 7 | 2.18 | 616 | 0.6 |
| 1089104 | Soil | 2.5 | <0.1 | 3.30 | 2.0 | 2 | 444 | <0.1 | 0.36 | <0.1 | 18.8 | 26 | 44.7 | 5.63 | 13 | 0.01 | 1.00 | 7 | 2.57 | 691 | 0.3 |
| 1162208 | Soil | 5.7 | 0.1 | 1.62 | 5.0 | 3 | 344 | 0.1 | 0.24 | 0.2 | 11.5 | 25 | 22.7 | 2.69 | 5 | 0.08 | 0.06 | 14 | 0.44 | 476 | 0.7 |
| 1162207 | Soil | 8.0 | <0.1 | 1.90 | 5.6 | 1 | 271 | <0.1 | 0.34 | 0.1 | 15.3 | 23 | 30.5 | 3.71 | 7 | 0.04 | 0.18 | 8 | 0.76 | 429 | 0.6 |
| 1162206 | Soil | 2.1 | <0.1 | 2.11 | 5.3 | 1 | 290 | <0.1 | 0.35 | 0.1 | 16.3 | 22 | 25.3 | 4.36 | 7 | 0.04 | 0.26 | 8 | 0.77 | 453 | 0.8 |
| 1089108 | Soil | 5.0 | <0.1 | 2.18 | 6.7 | 2 | 323 | 0.1 | 0.30 | <0.1 | 12.1 | 34 | 33.2 | 3.35 | 7 | 0.04 | 0.12 | 13 | 0.91 | 391 | 0.7 |
| 1162212 | Soil | 4.9 | <0.1 | 1.64 | 6.1 | 2 | 269 | 0.1 | 0.66 | 0.2 | 11.5 | 28 | 35.0 | 2.54 | 5 | 0.05 | 0.06 | 11 | 0.70 | 380 | 0.6 |
| 1162211 | Soil | 5.6 | <0.1 | 1.45 | 4.1 | 4 | 233 | <0.1 | 0.45 | 0.1 | 21.8 | 22 | 26.7 | 3.85 | 5 | 0.05 | 0.07 | 9 | 0.78 | 992 | 1.0 |
| 1162210 | Soil | 2.5 | <0.1 | 2.20 | 7.9 | 5 | 145 | 0.1 | 0.63 | 0.1 | 33.9 | 99 | 41.8 | 5.67 | 8 | 0.03 | 0.07 | 6 | 1.48 | 1326 | 0.5 |
| 1162209 | Soil | 3.5 | 0.2 | 1.45 | 4.1 | 2 | 619 | 0.2 | 0.43 | 0.3 | 12.6 | 21 | 29.7 | 3.29 | 5 | 0.05 | 0.09 | 16 | 0.40 | 704 | 0.7 |
| 1162205 | Soil | 4.8 | <0.1 | 1.89 | 4.3 | <1 | 196 | <0.1 | 0.37 | <0.1 | 14.9 | 21 | 43.7 | 3.59 | 6 | 0.02 | 0.11 | 6 | 0.79 | 426 | 0.6 |
| 1162213 | Soil | 4.9 | <0.1 | 1.77 | 6.2 | 2 | 295 | 0.1 | 0.87 | 0.2 | 12.3 | 33 | 44.0 | 2.75 | 5 | 0.05 | 0.06 | 12 | 0.73 | 428 | 0.9 |
| 1162214 | Soil | 3.6 | 0.1 | 3.82 | 1.7 | 2 | 429 | <0.1 | 0.60 | 0.2 | 26.5 | 15 | 61.8 | 7.22 | 13 | 0.01 | 0.09 | 5 | 3.06 | 1042 | 0.3 |
| 1162203 | Soil | 4.5 | 0.1 | 1.96 | 3.5 | 1 | 248 | 0.1 | 0.37 | 0.2 | 11.3 | 24 | 36.3 | 3.11 | 7 | 0.03 | 0.29 | 7 | 1.04 | 389 | 0.9 |
| 1162117 | Soil | 6.1 | <0.1 | 2.18 | 4.3 | <1 | 491 | <0.1 | 0.48 | 0.1 | 17.6 | 22 | 41.0 | 4.05 | 9 | 0.02 | 0.37 | 8 | 0.99 | 506 | 0.6 |
| 1162110 | Soil | 3.6 | 0.1 | 3.51 | 3.2 | 2 | 324 | <0.1 | 0.42 | 0.1 | 20.4 | 50 | 54.3 | 4.93 | 10 | 0.02 | 0.87 | 8 | 2.25 | 615 | 0.6 |

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Project: TSL
Report Date: August 24, 2011



# CERTIFICATE OF ANALYSIS DAW11000161.1

| | 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 |
| 1162215 | Soil | 0.023 | 16.0 | 0.045 | 14.5 | <0.05 | 0.4 | 16.9 | <0.5 | 32 | <0.2 | 4.6 | 0.017 | <0.1 | 0.6 | 131 | <0.1 | 78 |
| 1162193 | Soil | 0.020 | 30.7 | 0.066 | 6.9 | <0.05 | 0.4 | 3.0 | <0.5 | 28 | <0.2 | 2.1 | 0.257 | 0.1 | 0.4 | 111 | 0.1 | 78 |
| 1162196 | Soil | 0.015 | 25.0 | 0.037 | 9.2 | <0.05 | 0.3 | 4.2 | <0.5 | 25 | <0.2 | 2.6 | 0.184 | 0.2 | 0.8 | 95 | <0.1 | 66 |
| 1162201 | Soil | 0.017 | 17.2 | 0.050 | 6.6 | <0.05 | 0.2 | 3.7 | 0.6 | 20 | <0.2 | 1.5 | 0.142 | <0.1 | 0.5 | 82 | <0.1 | 58 |
| 1162197 | Soil | 0.024 | 24.3 | 0.084 | 10.2 | <0.05 | 0.1 | 6.9 | <0.5 | 23 | <0.2 | 1.7 | 0.220 | 0.2 | 0.4 | 159 | <0.1 | 105 |
| 1162200 | Soil | 0.015 | 17.9 | 0.046 | 9.0 | <0.05 | 0.2 | 3.4 | <0.5 | 21 | <0.2 | 1.8 | 0.136 | <0.1 | 0.5 | 77 | <0.1 | 61 |
| 1162202 | Soil | 0.018 | 19.3 | 0.036 | 6.8 | <0.05 | 0.2 | 3.6 | <0.5 | 21 | <0.2 | 1.2 | 0.152 | <0.1 | 0.5 | 89 | <0.1 | 58 |
| 1162192 | Soil | 0.019 | 18.7 | 0.062 | 7.1 | <0.05 | 0.3 | 3.6 | <0.5 | 25 | <0.2 | 3.0 | 0.145 | <0.1 | 0.6 | 78 | 0.1 | 54 |
| 1162199 | Soil | 0.018 | 19.4 | 0.053 | 7.0 | <0.05 | 0.2 | 3.6 | <0.5 | 24 | <0.2 | 3.2 | 0.162 | <0.1 | 0.7 | 84 | <0.1 | 64 |
| 1162194 | Soil | 0.015 | 28.0 | 0.080 | 9.5 | <0.05 | 0.4 | 4.0 | <0.5 | 29 | <0.2 | 3.4 | 0.106 | 0.1 | 0.8 | 69 | 0.2 | 60 |
| 1162198 | Soil | 0.024 | 23.7 | 0.080 | 10.4 | <0.05 | 0.1 | 6.9 | <0.5 | 22 | <0.2 | 1.7 | 0.220 | 0.2 | 0.4 | 157 | <0.1 | 101 |
| 1162204 | Soil | 0.016 | 16.5 | 0.041 | 12.4 | 0.05 | 0.2 | 5.2 | <0.5 | 18 | <0.2 | 3.9 | 0.086 | <0.1 | 0.9 | 82 | <0.1 | 80 |
| 1089106 | Soil | 0.014 | 26.8 | 0.043 | 9.4 | <0.05 | 0.6 | 5.0 | <0.5 | 25 | <0.2 | 3.5 | 0.130 | 0.1 | 0.6 | 87 | 0.1 | 69 |
| 1089107 | Soil | 0.024 | 19.4 | 0.207 | 4.6 | <0.05 | 0.1 | 12.2 | <0.5 | 29 | <0.2 | 2.6 | 0.290 | 0.3 | 0.7 | 150 | <0.1 | 105 |
| 1089105 | Soil | 0.016 | 15.0 | 0.076 | 6.5 | <0.05 | 0.2 | 12.0 | <0.5 | 15 | <0.2 | 2.1 | 0.253 | 0.2 | 0.4 | 123 | <0.1 | 79 |
| 1089104 | Soil | 0.017 | 12.3 | 0.093 | 4.2 | <0.05 | 0.1 | 13.9 | <0.5 | 14 | <0.2 | 1.9 | 0.290 | 0.3 | 0.4 | 127 | <0.1 | 85 |
| 1162208 | Soil | 0.016 | 13.6 | 0.050 | 15.7 | <0.05 | 0.3 | 3.9 | <0.5 | 19 | <0.2 | 1.8 | 0.040 | 0.3 | 1.0 | 57 | <0.1 | 58 |
| 1162207 | Soil | 0.022 | 15.1 | 0.051 | 9.0 | <0.05 | 0.3 | 4.1 | <0.5 | 20 | <0.2 | 2.8 | 0.110 | 0.1 | 0.5 | 96 | 0.1 | 74 |
| 1162206 | Soil | 0.026 | 14.5 | 0.043 | 9.5 | <0.05 | 0.3 | 5.3 | <0.5 | 19 | <0.2 | 2.7 | 0.145 | 0.2 | 0.5 | 114 | <0.1 | 77 |
| 1089108 | Soil | 0.018 | 22.4 | 0.040 | 8.2 | <0.05 | 0.4 | 5.4 | <0.5 | 24 | <0.2 | 3.4 | 0.141 | <0.1 | 0.7 | 80 | 0.1 | 61 |
| 1162212 | Soil | 0.032 | 21.4 | 0.065 | 9.5 | <0.05 | 0.5 | 4.2 | <0.5 | 43 | <0.2 | 2.6 | 0.089 | <0.1 | 0.8 | 61 | 0.1 | 53 |
| 1162211 | Soil | 0.031 | 14.2 | 0.071 | 10.3 | <0.05 | 0.3 | 6.4 | <0.5 | 22 | <0.2 | 1.6 | 0.055 | <0.1 | 0.5 | 93 | <0.1 | 63 |
| 1162210 | Soil | 0.016 | 44.0 | 0.072 | 14.0 | <0.05 | 0.4 | 10.7 | <0.5 | 38 | <0.2 | 2.0 | 0.040 | <0.1 | 0.5 | 162 | <0.1 | 96 |
| 1162209 | Soil | 0.015 | 16.2 | 0.044 | 11.4 | <0.05 | 0.4 | 7.8 | <0.5 | 27 | <0.2 | 2.2 | 0.022 | <0.1 | 1.0 | 70 | <0.1 | 76 |
| 1162205 | Soil | 0.031 | 13.8 | 0.046 | 6.0 | <0.05 | 0.3 | 5.1 | 0.6 | 18 | <0.2 | 1.7 | 0.106 | 0.1 | 0.4 | 102 | <0.1 | 61 |
| 1162213 | Soil | 0.038 | 25.0 | 0.068 | 8.9 | <0.05 | 0.7 | 4.4 | <0.5 | 52 | <0.2 | 3.0 | 0.088 | <0.1 | 0.7 | 64 | 0.1 | 60 |
| 1162214 | Soil | 0.009 | 9.2 | 0.066 | 4.7 | <0.05 | 0.1 | 15.7 | <0.5 | 53 | <0.2 | 1.8 | 0.034 | <0.1 | 0.3 | 215 | <0.1 | 109 |
| 1162203 | Soil | 0.023 | 14.7 | 0.063 | 5.7 | 0.15 | 0.2 | 5.2 | 1.1 | 27 | <0.2 | 1.5 | 0.119 | 0.1 | 0.7 | 82 | <0.1 | 73 |
| 1162117 | Soil | 0.031 | 14.5 | 0.053 | 7.5 | <0.05 | 0.2 | 4.7 | <0.5 | 29 | <0.2 | 2.4 | 0.201 | 0.2 | 0.6 | 120 | <0.1 | 87 |
| 1162110 | Soil | 0.020 | 24.3 | 0.071 | 6.6 | <0.05 | 0.2 | 5.1 | <0.5 | 24 | <0.2 | 2.5 | 0.236 | 0.2 | 0.5 | 143 | <0.1 | 98 |

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

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Project: TSL
Report Date: August 24, 2011



# CERTIFICATE OF ANALYSIS DAW11000161.1

| | 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 |
| 1161361 | Soil | 6.3 | 0.1 | 1.88 | 3.0 | 1 | 321 | <0.1 | 0.42 | 0.2 | 17.2 | 38 | 44.6 | 2.78 | 6 | 0.04 | 0.07 | 9 | 0.76 | 418 | 0.5 |
| 1162123 | Soil | 2.3 | <0.1 | 1.55 | 5.8 | 2 | 206 | 0.1 | 0.60 | 0.2 | 9.7 | 27 | 29.7 | 2.52 | 4 | 0.01 | 0.06 | 11 | 0.71 | 304 | 0.5 |
| 1162118 | Soil | 2.9 | <0.1 | 2.24 | 6.1 | <1 | 299 | 0.1 | 0.32 | 0.1 | 16.7 | 25 | 38.1 | 4.16 | 8 | 0.02 | 0.17 | 7 | 0.81 | 567 | 0.8 |
| 1162127 | Soil | 2.4 | <0.1 | 1.72 | 7.7 | <1 | 253 | 0.1 | 0.65 | 0.2 | 11.6 | 36 | 37.8 | 2.89 | 5 | 0.03 | 0.08 | 11 | 0.79 | 435 | 1.0 |
| 1162128 | Soil | 4.7 | 0.1 | 1.58 | 6.9 | 2 | 247 | 0.1 | 0.82 | 0.2 | 11.0 | 31 | 40.5 | 2.71 | 4 | 0.02 | 0.08 | 12 | 0.75 | 394 | 0.9 |
| 1162115 | Soil | 5.0 | <0.1 | 2.32 | 6.5 | 1 | 265 | 0.2 | 0.29 | <0.1 | 14.6 | 33 | 43.8 | 3.91 | 7 | 0.02 | 0.12 | 12 | 0.86 | 535 | 1.2 |
| 1162116 | Soil | 2.1 | 0.1 | 1.93 | 6.6 | <1 | 362 | 0.1 | 0.31 | <0.1 | 12.0 | 26 | 40.4 | 3.35 | 7 | 0.03 | 0.09 | 10 | 0.65 | 338 | 0.9 |
| 1160943 | Soil | 3.6 | <0.1 | 1.66 | 4.7 | 1 | 310 | <0.1 | 0.65 | 0.2 | 20.5 | 29 | 29.6 | 3.65 | 5 | 0.02 | 0.10 | 8 | 1.07 | 784 | 0.8 |
| 1162126 | Soil | 1.4 | <0.1 | 3.43 | 4.4 | 1 | 291 | <0.1 | 0.72 | <0.1 | 23.1 | 47 | 23.3 | 4.72 | 11 | 0.02 | 0.45 | 5 | 2.34 | 494 | 0.9 |
| 1162124 | Soil | 4.8 | <0.1 | 1.82 | 2.5 | <1 | 159 | <0.1 | 0.48 | <0.1 | 11.6 | 28 | 32.0 | 2.31 | 5 | 0.02 | 0.04 | 6 | 0.91 | 216 | 0.5 |
| 1162121 | Soil | 10.1 | 0.2 | 3.18 | 5.0 | 2 | 716 | 0.2 | 0.73 | 0.2 | 34.7 | 121 | 79.3 | 6.87 | 10 | 0.10 | 0.09 | 14 | 1.84 | 1201 | 0.6 |
| 1162125 | Soil | 6.2 | <0.1 | 2.56 | 4.6 | 2 | 266 | <0.1 | 0.64 | <0.1 | 18.5 | 66 | 32.2 | 3.52 | 7 | 0.04 | 0.11 | 8 | 1.75 | 347 | 0.5 |
| 1162122 | Soil | 2.2 | <0.1 | 1.43 | 3.8 | <1 | 188 | 0.1 | 0.34 | 0.2 | 7.6 | 22 | 16.8 | 2.19 | 5 | 0.03 | 0.05 | 7 | 0.64 | 214 | 0.6 |
| 1089137 | Soil | 4.8 | <0.1 | 1.65 | 4.5 | <1 | 252 | <0.1 | 0.35 | 0.1 | 9.5 | 25 | 21.1 | 2.83 | 6 | 0.03 | 0.23 | 9 | 0.84 | 332 | 0.6 |
| 1089138 | Soil | 2.1 | <0.1 | 2.31 | 3.3 | <1 | 337 | <0.1 | 0.52 | <0.1 | 16.7 | 19 | 54.2 | 4.13 | 8 | 0.01 | 0.45 | 6 | 1.40 | 408 | 0.5 |
| 1089135 | Soil | 4.1 | <0.1 | 1.81 | 11.1 | <1 | 225 | 0.1 | 0.29 | 0.1 | 16.4 | 277 | 29.6 | 2.63 | 6 | 0.03 | 0.07 | 6 | 1.42 | 248 | 0.5 |
| 1089129 | Soil | 5.7 | 0.4 | 1.98 | 8.9 | <1 | 288 | 0.1 | 0.46 | 0.1 | 13.1 | 37 | 68.4 | 3.40 | 7 | 0.09 | 0.12 | 11 | 0.91 | 421 | 0.7 |
| 1089136 | Soil | 5.9 | 0.1 | 1.64 | 4.5 | 2 | 290 | <0.1 | 0.30 | <0.1 | 10.5 | 32 | 41.4 | 2.52 | 5 | 0.04 | 0.13 | 7 | 0.80 | 201 | 0.5 |
| 1089131 | Soil | 3.5 | 0.2 | 1.92 | 3.4 | <1 | 357 | 0.1 | 0.46 | <0.1 | 13.6 | 31 | 53.8 | 3.21 | 7 | 0.04 | 0.16 | 10 | 1.03 | 297 | 0.6 |
| 1089130 | Soil | 4.8 | <0.1 | 2.05 | 6.9 | 1 | 193 | 0.1 | 0.29 | <0.1 | 12.8 | 39 | 39.9 | 3.11 | 7 | 0.02 | 0.07 | 7 | 0.94 | 293 | 0.6 |
| 1089128 | Soil | 1.1 | <0.1 | 1.90 | 5.6 | <1 | 212 | <0.1 | 0.34 | <0.1 | 11.4 | 25 | 38.6 | 3.60 | 8 | 0.03 | 0.37 | 6 | 0.98 | 578 | 0.5 |
| 1089127 | Soil | 0.7 | 0.1 | 2.14 | 7.0 | <1 | 235 | 0.1 | 0.22 | <0.1 | 14.6 | 67 | 41.4 | 3.38 | 7 | 0.02 | 0.18 | 7 | 1.05 | 439 | 0.8 |
| 1089133 | Soil | 2.6 | 0.2 | 2.17 | 3.8 | <1 | 435 | <0.1 | 0.48 | <0.1 | 13.6 | 61 | 47.4 | 3.36 | 8 | 0.05 | 0.34 | 9 | 1.25 | 410 | 0.6 |
| 1089134 | Soil | 1.4 | <0.1 | 1.97 | 8.5 | 1 | 303 | <0.1 | 0.34 | <0.1 | 16.3 | 101 | 31.8 | 3.15 | 7 | 0.02 | 0.22 | 8 | 1.33 | 348 | 0.6 |
| 1089132 | Soil | 5.0 | 0.2 | 2.09 | 4.2 | <1 | 383 | 0.1 | 0.46 | 0.1 | 14.5 | 34 | 51.9 | 3.29 | 8 | 0.04 | 0.19 | 11 | 1.05 | 384 | 0.7 |
| 1167825 | Soil | 1.9 | <0.1 | 2.14 | 5.8 | 1 | 166 | <0.1 | 0.35 | 0.1 | 13.2 | 27 | 54.3 | 3.30 | 6 | 0.02 | 0.16 | 9 | 0.99 | 294 | 0.6 |
| 1089139 | Soil | 2.9 | <0.1 | 2.34 | 2.5 | <1 | 355 | <0.1 | 0.49 | <0.1 | 17.9 | 19 | 56.0 | 4.11 | 8 | 0.02 | 0.48 | 6 | 1.39 | 418 | 0.5 |
| 1089140 | Soil | 1.2 | <0.1 | 2.27 | 5.2 | <1 | 216 | 0.1 | 0.37 | 0.1 | 12.5 | 30 | 27.9 | 3.37 | 7 | 0.02 | 0.12 | 8 | 0.91 | 288 | 0.8 |
| 1167829 | Soil | 0.7 | <0.1 | 2.56 | 10.0 | <1 | 152 | 0.2 | 0.16 | 0.1 | 12.7 | 36 | 26.6 | 3.78 | 7 | 0.03 | 0.12 | 8 | 0.86 | 316 | 1.2 |
| 1167824 | Soil | 3.8 | 0.1 | 2.15 | 18.7 | <1 | 159 | 0.1 | 0.23 | 0.1 | 11.7 | 31 | 50.0 | 3.37 | 7 | 0.03 | 0.13 | 9 | 0.76 | 305 | 1.2 |

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Project: TSL
Report Date: August 24, 2011



# CERTIFICATE OF ANALYSIS DAW11000161.1

| | 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 |
| 1161361 | Soil | 0.025 | 30.9 | 0.054 | 6.8 | <0.05 | 0.2 | 5.9 | <0.5 | 22 | <0.2 | 1.4 | 0.064 | <0.1 | 0.5 | 65 | <0.1 | 77 |
| 1162123 | Soil | 0.039 | 20.2 | 0.066 | 6.4 | <0.05 | 0.5 | 3.6 | <0.5 | 38 | <0.2 | 2.9 | 0.091 | <0.1 | 0.7 | 60 | 0.1 | 56 |
| 1162118 | Soil | 0.024 | 16.6 | 0.048 | 9.8 | <0.05 | 0.3 | 4.0 | 0.8 | 18 | <0.2 | 2.0 | 0.161 | 0.1 | 0.6 | 121 | <0.1 | 81 |
| 1162127 | Soil | 0.038 | 28.0 | 0.070 | 11.9 | <0.05 | 0.6 | 4.4 | <0.5 | 39 | <0.2 | 3.4 | 0.102 | <0.1 | 0.5 | 69 | 0.2 | 64 |
| 1162128 | Soil | 0.041 | 28.2 | 0.070 | 9.7 | <0.05 | 0.7 | 3.7 | <0.5 | 47 | <0.2 | 3.2 | 0.092 | <0.1 | 0.7 | 63 | 0.2 | 65 |
| 1162115 | Soil | 0.020 | 20.7 | 0.044 | 9.5 | 0.07 | 0.3 | 5.8 | <0.5 | 23 | <0.2 | 3.9 | 0.082 | <0.1 | 0.8 | 87 | <0.1 | 81 |
| 1162116 | Soil | 0.019 | 16.5 | 0.040 | 10.0 | <0.05 | 0.5 | 5.3 | <0.5 | 19 | <0.2 | 2.8 | 0.076 | 0.1 | 0.7 | 89 | <0.1 | 60 |
| 1160943 | Soil | 0.028 | 16.2 | 0.072 | 9.2 | <0.05 | 0.3 | 5.0 | <0.5 | 42 | <0.2 | 2.0 | 0.075 | <0.1 | 0.6 | 83 | 0.2 | 79 |
| 1162126 | Soil | 0.021 | 35.9 | 0.053 | 7.8 | <0.05 | 0.2 | 6.8 | <0.5 | 35 | <0.2 | 1.5 | 0.228 | 0.1 | 0.4 | 120 | <0.1 | 101 |
| 1162124 | Soil | 0.024 | 13.9 | 0.042 | 5.1 | <0.05 | 0.2 | 3.6 | <0.5 | 33 | <0.2 | 1.8 | 0.103 | <0.1 | 0.4 | 69 | <0.1 | 43 |
| 1162121 | Soil | 0.010 | 64.2 | 0.106 | 11.2 | <0.05 | 0.3 | 19.2 | <0.5 | 29 | 0.5 | 3.7 | 0.013 | <0.1 | 0.6 | 158 | <0.1 | 140 |
| 1162125 | Soil | 0.026 | 27.9 | 0.054 | 5.7 | <0.05 | 0.2 | 5.1 | <0.5 | 43 | 0.2 | 2.2 | 0.204 | <0.1 | 0.6 | 101 | 0.1 | 60 |
| 1162122 | Soil | 0.024 | 13.0 | 0.036 | 7.2 | <0.05 | 0.2 | 3.3 | <0.5 | 21 | <0.2 | 1.5 | 0.084 | <0.1 | 0.4 | 64 | 0.1 | 56 |
| 1089137 | Soil | 0.018 | 13.1 | 0.059 | 6.6 | <0.05 | 0.2 | 4.4 | <0.5 | 20 | <0.2 | 2.3 | 0.128 | <0.1 | 0.5 | 69 | 0.1 | 56 |
| 1089138 | Soil | 0.030 | 12.5 | 0.077 | 4.1 | <0.05 | 0.2 | 8.7 | <0.5 | 18 | <0.2 | 1.6 | 0.125 | 0.1 | 0.4 | 125 | <0.1 | 74 |
| 1089135 | Soil | 0.015 | 127.7 | 0.023 | 7.2 | <0.05 | 0.3 | 2.5 | <0.5 | 22 | <0.2 | 1.7 | 0.112 | <0.1 | 0.4 | 62 | 0.1 | 43 |
| 1089129 | Soil | 0.020 | 19.2 | 0.073 | 7.6 | <0.05 | 0.8 | 6.2 | <0.5 | 31 | <0.2 | 1.9 | 0.114 | <0.1 | 0.9 | 85 | 0.1 | 61 |
| 1089136 | Soil | 0.013 | 14.4 | 0.039 | 5.9 | <0.05 | 0.2 | 3.5 | <0.5 | 20 | <0.2 | 1.7 | 0.126 | <0.1 | 0.5 | 66 | 0.1 | 47 |
| 1089131 | Soil | 0.027 | 16.0 | 0.072 | 5.6 | <0.05 | 0.2 | 4.9 | <0.5 | 26 | <0.2 | 2.1 | 0.151 | <0.1 | 0.7 | 90 | <0.1 | 63 |
| 1089130 | Soil | 0.019 | 21.5 | 0.037 | 8.7 | <0.05 | 0.3 | 3.4 | <0.5 | 19 | <0.2 | 2.1 | 0.140 | <0.1 | 0.4 | 82 | <0.1 | 60 |
| 1089128 | Soil | 0.019 | 11.0 | 0.062 | 4.8 | <0.05 | 0.2 | 4.8 | <0.5 | 20 | <0.2 | 1.7 | 0.188 | 0.1 | 0.3 | 78 | <0.1 | 85 |
| 1089127 | Soil | 0.019 | 28.0 | 0.034 | 7.1 | <0.05 | 0.4 | 2.8 | <0.5 | 19 | <0.2 | 2.2 | 0.171 | 0.1 | 0.4 | 82 | <0.1 | 64 |
| 1089133 | Soil | 0.022 | 19.8 | 0.078 | 6.1 | <0.05 | 0.2 | 5.4 | <0.5 | 29 | <0.2 | 2.2 | 0.157 | <0.1 | 0.8 | 92 | <0.1 | 73 |
| 1089134 | Soil | 0.015 | 54.8 | 0.051 | 6.3 | <0.05 | 0.2 | 3.7 | <0.5 | 23 | <0.2 | 2.3 | 0.173 | 0.1 | 0.5 | 83 | 0.1 | 61 |
| 1089132 | Soil | 0.025 | 16.4 | 0.063 | 7.4 | <0.05 | 0.2 | 6.0 | <0.5 | 26 | <0.2 | 2.5 | 0.163 | <0.1 | 0.8 | 91 | <0.1 | 68 |
| 1167825 | Soil | 0.018 | 19.0 | 0.063 | 5.7 | <0.05 | 0.3 | 3.7 | <0.5 | 23 | <0.2 | 2.5 | 0.157 | <0.1 | 0.5 | 95 | 0.1 | 59 |
| 1089139 | Soil | 0.036 | 11.9 | 0.076 | 3.6 | <0.05 | 0.2 | 9.6 | <0.5 | 19 | <0.2 | 1.6 | 0.139 | 0.1 | 0.4 | 131 | <0.1 | 72 |
| 1089140 | Soil | 0.025 | 16.5 | 0.032 | 8.1 | <0.05 | 0.3 | 3.9 | <0.5 | 29 | <0.2 | 1.9 | 0.152 | <0.1 | 0.4 | 99 | <0.1 | 60 |
| 1167829 | Soil | 0.010 | 21.9 | 0.031 | 9.2 | <0.05 | 0.5 | 2.7 | 0.6 | 18 | <0.2 | 2.8 | 0.142 | <0.1 | 0.5 | 89 | 0.1 | 61 |
| 1167824 | Soil | 0.013 | 18.9 | 0.045 | 8.4 | <0.05 | 0.5 | 4.1 | <0.5 | 18 | <0.2 | 2.4 | 0.121 | 0.1 | 0.6 | 90 | 0.1 | 61 |

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Project: TSL
Report Date: August 24, 2011



# CERTIFICATE OF ANALYSIS DAW11000161.1

| | 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 |
| 1089123 | Soil | <0.5 | <0.1 | 2.50 | 4.0 | <1 | 270 | <0.1 | 0.19 | <0.1 | 17.5 | 28 | 54.4 | 4.38 | 10 | <0.01 | 0.58 | 6 | 1.55 | 419 | 0.5 |
| 1089125 | Soil | 1.6 | <0.1 | 2.56 | 9.5 | <1 | 212 | 0.1 | 0.31 | 0.1 | 15.4 | 43 | 50.0 | 3.39 | 7 | 0.03 | 0.08 | 8 | 0.87 | 317 | 1.0 |
| 1167830 | Soil | 1.2 | <0.1 | 1.41 | 5.8 | <1 | 156 | 0.2 | 0.16 | 0.1 | 4.2 | 20 | 21.9 | 2.07 | 6 | 0.03 | 0.06 | 9 | 0.31 | 110 | 1.0 |
| 1089124 | Soil | 3.1 | 0.2 | 2.04 | 6.0 | <1 | 156 | 0.1 | 0.28 | <0.1 | 10.0 | 32 | 37.2 | 2.76 | 6 | 0.05 | 0.08 | 10 | 0.74 | 281 | 0.7 |
| 1089121 | Soil | 0.9 | <0.1 | 2.05 | 8.4 | 2 | 156 | 0.1 | 0.24 | 0.1 | 11.3 | 29 | 20.4 | 3.50 | 8 | 0.03 | 0.12 | 9 | 0.79 | 314 | 1.0 |
| 1089122 | Soil | 1.4 | 0.1 | 1.89 | 7.8 | <1 | 156 | 0.2 | 0.25 | 0.1 | 8.0 | 33 | 19.2 | 3.21 | 8 | 0.03 | 0.07 | 8 | 0.63 | 318 | 1.5 |
| 1167826 | Soil | 2.5 | <0.1 | 2.03 | 4.8 | <1 | 125 | 0.1 | 0.22 | <0.1 | 9.7 | 23 | 30.8 | 3.22 | 8 | 0.02 | 0.12 | 6 | 1.03 | 256 | 0.6 |
| 1167828 | Soil | 0.9 | 0.1 | 1.75 | 6.4 | <1 | 205 | 0.2 | 0.33 | <0.1 | 10.4 | 26 | 31.8 | 2.62 | 5 | 0.03 | 0.07 | 12 | 0.70 | 309 | 0.7 |
| 1089126 | Soil | 4.8 | <0.1 | 2.53 | 9.0 | <1 | 207 | 0.2 | 0.29 | 0.1 | 15.5 | 42 | 50.2 | 3.35 | 7 | 0.01 | 0.07 | 8 | 0.87 | 324 | 0.9 |
| 1167827 | Soil | 1.4 | <0.1 | 2.01 | 3.8 | 1 | 184 | <0.1 | 0.37 | <0.1 | 11.0 | 25 | 27.9 | 3.04 | 6 | 0.02 | 0.28 | 9 | 1.08 | 301 | 0.5 |
| 1162161 | Soil | 1.3 | 0.2 | 2.30 | 9.4 | 1 | 367 | 0.2 | 0.30 | <0.1 | 15.6 | 45 | 51.4 | 4.02 | 8 | <0.01 | 0.28 | 12 | 1.15 | 452 | 1.1 |
| 1162170 | Soil | 1.3 | 0.1 | 2.09 | 5.5 | <1 | 183 | 0.1 | 0.35 | <0.1 | 11.2 | 30 | 30.9 | 2.80 | 6 | 0.04 | 0.08 | 10 | 0.81 | 323 | 0.7 |
| 1162163 | Soil | 3.9 | 0.2 | 2.11 | 9.2 | 2 | 243 | 0.1 | 0.27 | <0.1 | 15.8 | 33 | 57.1 | 3.43 | 7 | 0.04 | 0.31 | 13 | 0.97 | 336 | 1.1 |
| 1162162 | Soil | 1.5 | 0.2 | 2.38 | 9.9 | 2 | 258 | 0.1 | 0.19 | <0.1 | 14.0 | 35 | 29.7 | 3.92 | 8 | 0.03 | 0.18 | 10 | 0.85 | 490 | 1.0 |
| 1162169 | Soil | 5.0 | 0.2 | 1.80 | 5.6 | <1 | 169 | 0.1 | 0.28 | 0.1 | 9.2 | 28 | 26.1 | 2.53 | 6 | 0.04 | 0.06 | 9 | 0.70 | 251 | 0.8 |
| 1162167 | Soil | 8.2 | 0.1 | 1.85 | 5.1 | <1 | 247 | 0.1 | 0.37 | 0.1 | 11.5 | 30 | 26.6 | 2.83 | 6 | 0.05 | 0.07 | 9 | 0.86 | 292 | 0.7 |
| 1162164 | Soil | 3.0 | 0.2 | 2.30 | 12.1 | 2 | 265 | 0.1 | 0.31 | 0.1 | 16.7 | 31 | 60.9 | 3.39 | 7 | 0.05 | 0.16 | 12 | 0.93 | 366 | 0.9 |
| 1162171 | Soil | 3.5 | 0.2 | 2.48 | 5.7 | <1 | 355 | 0.1 | 0.42 | 0.1 | 12.6 | 36 | 54.2 | 3.28 | 8 | 0.06 | 0.12 | 13 | 0.86 | 308 | 0.6 |
| 1162168 | Soil | 0.9 | 0.1 | 1.70 | 5.7 | 1 | 159 | 0.1 | 0.24 | 0.1 | 7.2 | 26 | 30.5 | 2.34 | 6 | 0.06 | 0.05 | 9 | 0.66 | 170 | 0.5 |
| 1162165 | Soil | 4.2 | 0.2 | 2.05 | 5.6 | <1 | 242 | 0.1 | 0.38 | 0.1 | 14.1 | 32 | 40.2 | 2.98 | 6 | 0.03 | 0.12 | 10 | 0.92 | 526 | 0.8 |
| 1162166 | Soil | 2.5 | 0.1 | 2.03 | 6.0 | 1 | 216 | 0.1 | 0.43 | <0.1 | 12.3 | 28 | 33.3 | 2.88 | 6 | 0.03 | 0.07 | 9 | 0.88 | 330 | 0.7 |
| 1162189 | Soil | 2.0 | 0.1 | 1.61 | 4.3 | 2 | 411 | 0.2 | 0.42 | 0.2 | 14.6 | 22 | 22.2 | 2.90 | 6 | 0.03 | 0.09 | 16 | 0.62 | 954 | 0.6 |
| 1162183 | Soil | 1.4 | 0.1 | 2.25 | 3.4 | 1 | 234 | <0.1 | 0.38 | 0.1 | 16.5 | 32 | 39.8 | 3.34 | 7 | 0.04 | 0.21 | 6 | 1.39 | 478 | 0.6 |
| 1162187 | Soil | <0.5 | <0.1 | 1.33 | 6.2 | 2 | 431 | 0.2 | 0.36 | 0.4 | 11.0 | 16 | 29.9 | 2.90 | 6 | 0.02 | 0.27 | 15 | 0.53 | 355 | 0.8 |
| 1162190 | Soil | 1.0 | <0.1 | 2.71 | 3.8 | 6 | 230 | 0.2 | 1.03 | 0.2 | 27.2 | 63 | 69.6 | 5.87 | 10 | 0.03 | 0.11 | 30 | 2.34 | 930 | 1.0 |
| 1162184 | Soil | 30.1 | 0.2 | 1.95 | 4.5 | 1 | 351 | 0.2 | 0.50 | 0.1 | 14.3 | 26 | 29.2 | 3.25 | 6 | 0.05 | 0.10 | 20 | 0.68 | 686 | 1.2 |
| 1162185 | Soil | 2.0 | 0.1 | 1.49 | 4.8 | 2 | 218 | 0.2 | 0.25 | <0.1 | 10.7 | 20 | 26.0 | 2.86 | 7 | 0.01 | 0.09 | 6 | 0.55 | 378 | 1.1 |
| 1160760 | Soil | 5.1 | <0.1 | 1.45 | 6.5 | 3 | 250 | 0.1 | 0.91 | 0.2 | 10.2 | 29 | 31.4 | 2.50 | 4 | 0.04 | 0.07 | 11 | 0.65 | 329 | 0.8 |
| 1162188 | Soil | 1.7 | 0.1 | 1.83 | 4.7 | 2 | 391 | 0.1 | 0.37 | 0.2 | 13.9 | 27 | 28.0 | 3.01 | 6 | 0.03 | 0.07 | 15 | 0.65 | 576 | 0.6 |
| 1162182 | Soil | 1.5 | <0.1 | 1.46 | 1.6 | 2 | 149 | <0.1 | 0.37 | <0.1 | 9.0 | 20 | 22.6 | 1.93 | 5 | 0.02 | 0.28 | 4 | 0.99 | 203 | 0.6 |

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Report Date: August 24, 2011



# CERTIFICATE OF ANALYSIS DAW11000161.1

| | 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 |
| 1089123 | Soil | 0.025 | 17.0 | 0.033 | 4.1 | <0.05 | 0.2 | 5.5 | <0.5 | 14 | <0.2 | 2.2 | 0.267 | 0.1 | 0.3 | 131 | <0.1 | 73 |
| 1089125 | Soil | 0.025 | 29.7 | 0.035 | 8.2 | <0.05 | 0.5 | 4.1 | 0.7 | 24 | <0.2 | 3.0 | 0.132 | <0.1 | 0.5 | 86 | 0.1 | 61 |
| 1167830 | Soil | 0.014 | 9.5 | 0.044 | 9.2 | <0.05 | 0.3 | 1.9 | <0.5 | 20 | <0.2 | 0.8 | 0.071 | <0.1 | 0.5 | 61 | <0.1 | 31 |
| 1089124 | Soil | 0.020 | 18.6 | 0.051 | 7.4 | <0.05 | 0.2 | 4.0 | <0.5 | 20 | <0.2 | 2.1 | 0.110 | <0.1 | 0.7 | 75 | 0.1 | 50 |
| 1089121 | Soil | 0.013 | 18.1 | 0.042 | 7.9 | <0.05 | 0.3 | 3.9 | <0.5 | 21 | <0.2 | 2.7 | 0.160 | <0.1 | 0.5 | 89 | <0.1 | 60 |
| 1089122 | Soil | 0.014 | 15.7 | 0.032 | 9.4 | <0.05 | 0.4 | 3.2 | <0.5 | 21 | <0.2 | 2.0 | 0.099 | <0.1 | 0.5 | 89 | <0.1 | 48 |
| 1167826 | Soil | 0.017 | 11.6 | 0.029 | 6.1 | <0.05 | 0.3 | 4.0 | <0.5 | 20 | <0.2 | 1.2 | 0.180 | <0.1 | 0.4 | 110 | <0.1 | 51 |
| 1167828 | Soil | 0.014 | 19.2 | 0.086 | 6.5 | <0.05 | 0.3 | 2.8 | <0.5 | 26 | <0.2 | 1.4 | 0.079 | 0.1 | 0.6 | 67 | 0.1 | 56 |
| 1089126 | Soil | 0.024 | 29.4 | 0.034 | 7.8 | <0.05 | 0.5 | 4.0 | 0.7 | 24 | <0.2 | 2.9 | 0.128 | <0.1 | 0.5 | 84 | <0.1 | 63 |
| 1167827 | Soil | 0.016 | 15.3 | 0.051 | 5.1 | <0.05 | 0.2 | 4.1 | <0.5 | 27 | <0.2 | 2.4 | 0.183 | 0.1 | 0.5 | 74 | <0.1 | 63 |
| 1162161 | Soil | 0.013 | 25.6 | 0.053 | 7.8 | <0.05 | 0.4 | 5.4 | <0.5 | 22 | <0.2 | 2.7 | 0.173 | 0.1 | 0.9 | 109 | 0.2 | 66 |
| 1162170 | Soil | 0.017 | 19.2 | 0.057 | 7.5 | <0.05 | 0.3 | 3.8 | <0.5 | 27 | <0.2 | 2.4 | 0.116 | <0.1 | 0.6 | 71 | 0.1 | 59 |
| 1162163 | Soil | 0.015 | 18.1 | 0.058 | 7.0 | <0.05 | 0.3 | 5.2 | 0.6 | 19 | <0.2 | 2.8 | 0.156 | 0.2 | 0.8 | 92 | <0.1 | 68 |
| 1162162 | Soil | 0.012 | 23.7 | 0.029 | 8.4 | <0.05 | 0.5 | 4.6 | <0.5 | 17 | <0.2 | 3.3 | 0.164 | 0.1 | 0.6 | 93 | <0.1 | 74 |
| 1162169 | Soil | 0.016 | 16.4 | 0.054 | 7.9 | <0.05 | 0.2 | 3.3 | 0.7 | 21 | <0.2 | 1.6 | 0.089 | <0.1 | 0.6 | 69 | 0.1 | 55 |
| 1162167 | Soil | 0.017 | 16.7 | 0.060 | 8.5 | <0.05 | 0.2 | 4.4 | <0.5 | 23 | <0.2 | 2.4 | 0.120 | <0.1 | 0.6 | 74 | 0.1 | 67 |
| 1162164 | Soil | 0.017 | 17.6 | 0.057 | 7.8 | <0.05 | 0.3 | 6.3 | <0.5 | 25 | <0.2 | 2.3 | 0.133 | 0.1 | 0.8 | 90 | <0.1 | 60 |
| 1162171 | Soil | 0.020 | 24.2 | 0.057 | 8.7 | <0.05 | 0.3 | 6.2 | <0.5 | 34 | <0.2 | 2.8 | 0.144 | <0.1 | 1.0 | 83 | <0.1 | 65 |
| 1162168 | Soil | 0.014 | 14.4 | 0.054 | 9.0 | <0.05 | 0.2 | 3.5 | <0.5 | 19 | <0.2 | 1.6 | 0.090 | <0.1 | 0.7 | 61 | 0.1 | 55 |
| 1162165 | Soil | 0.017 | 19.7 | 0.057 | 8.6 | <0.05 | 0.3 | 4.3 | <0.5 | 29 | <0.2 | 2.3 | 0.127 | <0.1 | 0.7 | 80 | 0.1 | 71 |
| 1162166 | Soil | 0.028 | 17.1 | 0.059 | 8.2 | <0.05 | 0.3 | 4.5 | <0.5 | 25 | <0.2 | 2.4 | 0.118 | <0.1 | 0.6 | 84 | 0.1 | 63 |
| 1162189 | Soil | 0.020 | 14.8 | 0.051 | 11.8 | <0.05 | 0.3 | 5.2 | 0.5 | 27 | <0.2 | 3.3 | 0.050 | <0.1 | 0.8 | 71 | <0.1 | 80 |
| 1162183 | Soil | 0.023 | 17.9 | 0.055 | 6.1 | <0.05 | 0.2 | 5.2 | 0.6 | 23 | <0.2 | 1.4 | 0.155 | <0.1 | 0.5 | 96 | <0.1 | 87 |
| 1162187 | Soil | 0.019 | 10.1 | 0.039 | 22.9 | <0.05 | 0.2 | 3.8 | <0.5 | 20 | <0.2 | 2.0 | 0.097 | 0.1 | 0.5 | 75 | <0.1 | 66 |
| 1162190 | Soil | 0.026 | 32.6 | 0.050 | 13.3 | 0.14 | 0.2 | 11.1 | 0.7 | 66 | <0.2 | 8.8 | 0.051 | <0.1 | 1.2 | 116 | <0.1 | 98 |
| 1162184 | Soil | 0.014 | 16.3 | 0.049 | 8.1 | <0.05 | 0.3 | 5.5 | 0.7 | 27 | <0.2 | 3.6 | 0.060 | <0.1 | 1.0 | 71 | 0.2 | 61 |
| 1162185 | Soil | 0.018 | 12.3 | 0.026 | 6.8 | <0.05 | 0.3 | 3.2 | <0.5 | 17 | <0.2 | 1.4 | 0.095 | <0.1 | 0.4 | 85 | <0.1 | 53 |
| 1160760 | Soil | 0.032 | 23.3 | 0.075 | 7.1 | <0.05 | 0.5 | 3.5 | 0.6 | 48 | <0.2 | 2.1 | 0.081 | <0.1 | 0.8 | 59 | 0.2 | 56 |
| 1162188 | Soil | 0.020 | 15.2 | 0.046 | 11.3 | <0.05 | 0.3 | 5.9 | <0.5 | 25 | <0.2 | 2.9 | 0.045 | <0.1 | 0.8 | 76 | <0.1 | 70 |
| 1162182 | Soil | 0.019 | 12.0 | 0.075 | 3.5 | <0.05 | 0.1 | 2.4 | <0.5 | 18 | <0.2 | 0.8 | 0.108 | <0.1 | 0.3 | 49 | 0.1 | 45 |

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Project: TSL
Report Date: August 24, 2011



# CERTIFICATE OF ANALYSIS DAW11000161.1

| | 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 |
| 1162186 | Soil | 5.7 | <0.1 | 1.98 | 5.0 | 3 | 343 | <0.1 | 0.41 | <0.1 | 15.7 | 21 | 25.0 | 4.02 | 8 | 0.03 | 0.27 | 8 | 0.85 | 488 | 0.6 |
| 1162179 | Soil | <0.5 | 0.2 | 2.28 | 2.7 | 2 | 220 | <0.1 | 0.39 | 0.1 | 14.8 | 40 | 44.7 | 3.35 | 7 | 0.02 | 0.54 | 5 | 1.50 | 350 | 0.8 |
| 1162175 | Soil | 3.3 | <0.1 | 2.14 | 7.9 | 2 | 241 | 0.2 | 0.37 | 0.1 | 11.5 | 34 | 24.6 | 3.14 | 6 | 0.04 | 0.05 | 10 | 0.66 | 404 | 0.8 |
| 1162178 | Soil | 1.3 | 0.4 | 1.97 | 4.4 | 1 | 259 | 0.1 | 0.48 | 0.2 | 43.1 | 33 | 40.0 | 3.25 | 6 | 0.05 | 0.23 | 7 | 0.99 | 1010 | 1.7 |
| 1162181 | Soil | 1.4 | 0.1 | 1.75 | 3.5 | 2 | 123 | 0.1 | 0.25 | 0.1 | 10.3 | 31 | 23.2 | 2.49 | 6 | 0.04 | 0.07 | 7 | 0.76 | 314 | 0.4 |
| 1162172 | Soil | 2.1 | <0.1 | 2.04 | 4.4 | 2 | 178 | 0.1 | 0.44 | <0.1 | 12.5 | 31 | 30.9 | 3.17 | 6 | 0.02 | 0.05 | 10 | 1.00 | 439 | 0.6 |
| 1160759 | Soil | 1.2 | <0.1 | 2.15 | 7.8 | 1 | 253 | 0.2 | 0.39 | <0.1 | 11.7 | 32 | 25.9 | 3.06 | 6 | 0.04 | 0.05 | 11 | 0.65 | 435 | 0.9 |
| 1162180 | Soil | 0.5 | 0.1 | 1.81 | 3.2 | <1 | 184 | <0.1 | 0.35 | 0.1 | 11.2 | 33 | 36.7 | 2.58 | 6 | 0.03 | 0.15 | 8 | 0.99 | 260 | 0.6 |
| 1162173 | Soil | <0.5 | <0.1 | 4.25 | 4.5 | 1 | 423 | <0.1 | 0.26 | 0.2 | 22.7 | 22 | 24.4 | 7.22 | 15 | 0.01 | 0.84 | 6 | 3.23 | 794 | 0.7 |
| 1162177 | Soil | <0.5 | 0.1 | 2.18 | 8.1 | 2 | 216 | 0.1 | 0.47 | <0.1 | 12.5 | 34 | 29.9 | 3.28 | 6 | 0.02 | 0.07 | 9 | 0.83 | 322 | 0.4 |
| 1162174 | Soil | 2.8 | <0.1 | 4.21 | 7.7 | 2 | 198 | <0.1 | 0.31 | 0.1 | 21.1 | 22 | 13.0 | 6.86 | 17 | 0.03 | 0.18 | 4 | 2.36 | 837 | 0.6 |
| 1162176 | Soil | 12.0 | 0.1 | 1.95 | 6.0 | <1 | 343 | 0.1 | 0.76 | 0.2 | 13.5 | 36 | 32.6 | 2.88 | 6 | 0.05 | 0.05 | 12 | 0.72 | 444 | 0.6 |

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Project: TSL
Report Date: August 24, 2011



# CERTIFICATE OF ANALYSIS DAW11000161.1

| | 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 |
| 1162186 | Soil | 0.022 | 13.9 | 0.053 | 7.2 | <0.05 | 0.3 | 4.4 | 1.1 | 20 | <0.2 | 1.9 | 0.150 | 0.1 | 0.4 | 114 | 0.1 | 80 |
| 1162179 | Soil | 0.017 | 18.0 | 0.066 | 5.2 | <0.05 | 0.1 | 3.6 | 0.7 | 22 | <0.2 | 1.4 | 0.169 | 0.1 | 0.4 | 98 | <0.1 | 69 |
| 1162175 | Soil | 0.015 | 23.5 | 0.048 | 9.0 | <0.05 | 0.4 | 3.7 | 0.8 | 24 | <0.2 | 2.3 | 0.089 | 0.1 | 0.7 | 73 | 0.2 | 60 |
| 1162178 | Soil | 0.019 | 17.1 | 0.066 | 9.2 | 0.07 | 0.2 | 4.1 | <0.5 | 27 | <0.2 | 1.3 | 0.112 | 0.1 | 0.7 | 89 | <0.1 | 74 |
| 1162181 | Soil | 0.016 | 13.4 | 0.055 | 7.0 | <0.05 | 0.2 | 2.8 | <0.5 | 19 | <0.2 | 1.3 | 0.088 | <0.1 | 0.5 | 61 | <0.1 | 55 |
| 1162172 | Soil | 0.022 | 19.6 | 0.039 | 6.8 | <0.05 | 0.3 | 5.9 | <0.5 | 34 | <0.2 | 2.5 | 0.118 | <0.1 | 0.6 | 90 | 0.1 | 62 |
| 1160759 | Soil | 0.015 | 23.6 | 0.050 | 9.2 | <0.05 | 0.4 | 3.7 | <0.5 | 24 | <0.2 | 2.3 | 0.078 | <0.1 | 0.8 | 69 | 0.1 | 59 |
| 1162180 | Soil | 0.020 | 15.8 | 0.060 | 6.5 | <0.05 | 0.2 | 3.6 | <0.5 | 22 | <0.2 | 1.4 | 0.119 | <0.1 | 0.5 | 71 | <0.1 | 60 |
| 1162173 | Soil | 0.017 | 13.0 | 0.049 | 5.7 | <0.05 | 0.2 | 12.2 | <0.5 | 12 | <0.2 | 1.3 | 0.367 | 0.3 | 0.3 | 253 | <0.1 | 99 |
| 1162177 | Soil | 0.015 | 20.3 | 0.052 | 8.4 | <0.05 | 0.3 | 3.7 | <0.5 | 25 | <0.2 | 1.8 | 0.095 | 0.1 | 0.6 | 77 | 0.1 | 59 |
| 1162174 | Soil | 0.010 | 15.6 | 0.043 | 9.6 | <0.05 | 0.3 | 6.5 | <0.5 | 20 | <0.2 | 1.6 | 0.345 | <0.1 | 0.3 | 171 | 0.1 | 143 |
| 1162176 | Soil | 0.020 | 29.1 | 0.060 | 8.6 | <0.05 | 0.6 | 5.1 | <0.5 | 32 | <0.2 | 2.8 | 0.103 | <0.1 | 0.9 | 67 | 0.2 | 60 |

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Project: TSL
Report Date: August 24, 2011



# QUALITY CONTROL REPORT DAW11000161.1

| | 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 | | | | | | | | | | | | | | | | | | | | | |
| 1089063 | Soil | 2.9 | 0.2 | 2.08 | 3.6 | 2 | 251 | 0.1 | 0.35 | <0.1 | 12.9 | 27 | 34.0 | 2.65 | 7 | 0.06 | 0.09 | 9 | 0.81 | 428 | 0.7 |
| REP 1089063 | QC | 4.1 | 0.2 | 2.07 | 3.7 | 2 | 246 | 0.1 | 0.34 | <0.1 | 13.2 | 28 | 33.7 | 2.67 | 7 | 0.05 | 0.09 | 9 | 0.80 | 425 | 0.6 |
| 1162139 | Soil | 1.6 | <0.1 | 1.64 | 5.3 | 1 | 258 | <0.1 | 0.39 | <0.1 | 10.9 | 32 | 41.3 | 2.65 | 5 | 0.03 | 0.12 | 10 | 0.75 | 301 | 0.5 |
| REP 1162139 | QC | 0.9 | <0.1 | 1.72 | 5.6 | 1 | 263 | 0.1 | 0.38 | <0.1 | 11.1 | 33 | 41.7 | 2.63 | 5 | 0.02 | 0.12 | 10 | 0.76 | 301 | 0.5 |
| 1089025 | Soil | 0.8 | <0.1 | 1.94 | 1.3 | <1 | 315 | <0.1 | 0.38 | <0.1 | 17.0 | 199 | 29.8 | 2.69 | 6 | <0.01 | 0.66 | 4 | 1.73 | 334 | 0.2 |
| REP 1089025 | QC | 0.9 | <0.1 | 1.92 | 1.4 | <1 | 314 | <0.1 | 0.37 | <0.1 | 16.9 | 196 | 29.9 | 2.68 | 5 | <0.01 | 0.66 | 4 | 1.70 | 332 | 0.2 |
| 1089092 | Soil | 3.6 | <0.1 | 1.96 | 4.5 | 1 | 172 | <0.1 | 0.30 | 0.1 | 8.0 | 29 | 29.1 | 2.28 | 6 | 0.05 | 0.10 | 7 | 0.78 | 187 | 0.4 |
| REP 1089092 | QC | 11.0 | 0.1 | 1.94 | 4.1 | 1 | 166 | <0.1 | 0.30 | 0.1 | 8.1 | 28 | 31.2 | 2.25 | 6 | 0.05 | 0.09 | 7 | 0.78 | 184 | 0.5 |
| 1089112 | Soil | 19.9 | <0.1 | 2.11 | 5.4 | 1 | 271 | <0.1 | 0.48 | 0.1 | 14.4 | 29 | 31.0 | 3.32 | 6 | 0.02 | 0.11 | 8 | 0.96 | 382 | 0.8 |
| REP 1089112 | QC | 5.7 | <0.1 | 2.08 | 5.8 | 2 | 271 | <0.1 | 0.47 | 0.1 | 14.1 | 29 | 30.2 | 3.20 | 6 | 0.02 | 0.11 | 8 | 0.97 | 375 | 0.7 |
| 1089116 | Soil | 3.2 | 0.1 | 1.61 | 8.8 | 2 | 279 | 0.1 | 0.31 | <0.1 | 11.8 | 28 | 32.0 | 3.00 | 6 | 0.03 | 0.13 | 8 | 0.72 | 420 | 1.0 |
| REP 1089116 | QC | 4.3 | 0.1 | 1.65 | 8.9 | 2 | 278 | 0.1 | 0.31 | <0.1 | 12.2 | 29 | 31.7 | 3.02 | 6 | 0.02 | 0.14 | 7 | 0.74 | 421 | 1.0 |
| 1089003 | Soil | 5.5 | <0.1 | 2.09 | 7.6 | 1 | 218 | 0.1 | 0.33 | <0.1 | 10.9 | 32 | 64.0 | 2.96 | 6 | 0.03 | 0.08 | 10 | 0.73 | 312 | 0.9 |
| REP 1089003 | QC | 2.5 | <0.1 | 2.06 | 7.3 | 1 | 217 | 0.1 | 0.32 | <0.1 | 10.7 | 32 | 62.3 | 2.92 | 6 | 0.03 | 0.08 | 10 | 0.74 | 315 | 0.8 |
| 1160285 | Soil | 1.7 | <0.1 | 2.22 | 4.3 | <1 | 175 | 0.1 | 0.35 | 0.1 | 13.0 | 30 | 42.0 | 3.03 | 6 | 0.01 | 0.20 | 8 | 1.01 | 358 | 0.6 |
| REP 1160285 | QC | 2.2 | 0.1 | 2.23 | 4.6 | 1 | 173 | 0.1 | 0.34 | 0.1 | 13.0 | 31 | 42.6 | 2.94 | 6 | 0.03 | 0.20 | 8 | 1.01 | 356 | 0.6 |
| 1162192 | Soil | 2.7 | <0.1 | 1.78 | 5.2 | 1 | 203 | 0.1 | 0.36 | 0.1 | 12.3 | 29 | 27.2 | 2.78 | 6 | 0.01 | 0.12 | 11 | 0.91 | 294 | 0.6 |
| REP 1162192 | QC | 7.4 | <0.1 | 1.74 | 5.3 | 1 | 191 | <0.1 | 0.36 | 0.1 | 11.9 | 29 | 26.7 | 2.68 | 5 | 0.01 | 0.12 | 10 | 0.89 | 285 | 0.6 |
| 1162205 | Soil | 4.8 | <0.1 | 1.89 | 4.3 | <1 | 196 | <0.1 | 0.37 | <0.1 | 14.9 | 21 | 43.7 | 3.59 | 6 | 0.02 | 0.11 | 6 | 0.79 | 426 | 0.6 |
| REP 1162205 | QC | 3.8 | <0.1 | 2.01 | 3.7 | <1 | 199 | <0.1 | 0.38 | 0.1 | 15.4 | 22 | 45.5 | 3.68 | 6 | 0.03 | 0.11 | 6 | 0.80 | 431 | 0.6 |
| 1162123 | Soil | 2.3 | <0.1 | 1.55 | 5.8 | 2 | 206 | 0.1 | 0.60 | 0.2 | 9.7 | 27 | 29.7 | 2.52 | 4 | 0.01 | 0.06 | 11 | 0.71 | 304 | 0.5 |
| REP 1162123 | QC | 4.0 | <0.1 | 1.55 | 6.1 | 1 | 216 | 0.1 | 0.65 | 0.2 | 10.1 | 28 | 31.0 | 2.58 | 5 | 0.03 | 0.06 | 11 | 0.72 | 321 | 0.4 |
| 1089136 | Soil | 5.9 | 0.1 | 1.64 | 4.5 | 2 | 290 | <0.1 | 0.30 | <0.1 | 10.5 | 32 | 41.4 | 2.52 | 5 | 0.04 | 0.13 | 7 | 0.80 | 201 | 0.5 |
| REP 1089136 | QC | 4.1 | 0.2 | 1.78 | 4.9 | 3 | 327 | 0.1 | 0.34 | <0.1 | 11.4 | 37 | 46.6 | 2.83 | 6 | 0.03 | 0.14 | 8 | 0.94 | 235 | 0.5 |
| 1089133 | Soil | 2.6 | 0.2 | 2.17 | 3.8 | <1 | 435 | <0.1 | 0.48 | <0.1 | 13.6 | 61 | 47.4 | 3.36 | 8 | 0.05 | 0.34 | 9 | 1.25 | 410 | 0.6 |
| REP 1089133 | QC | 2.8 | 0.2 | 2.11 | 3.7 | <1 | 430 | <0.1 | 0.48 | 0.1 | 13.6 | 48 | 46.0 | 3.25 | 7 | 0.04 | 0.33 | 9 | 1.22 | 388 | 0.6 |
| 1089126 | Soil | 4.8 | <0.1 | 2.53 | 9.0 | <1 | 207 | 0.2 | 0.29 | 0.1 | 15.5 | 42 | 50.2 | 3.35 | 7 | 0.01 | 0.07 | 8 | 0.87 | 324 | 0.9 |
| REP 1089126 | QC | 1.2 | <0.1 | 2.52 | 9.2 | <1 | 211 | 0.1 | 0.30 | 0.1 | 15.7 | 42 | 49.7 | 3.39 | 7 | 0.03 | 0.08 | 8 | 0.88 | 330 | 0.9 |

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# QUALITY CONTROL REPORT DAW11000161.1

| | 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 | | | | | | | | | | | | | | | | | | |
| 1089063 | Soil | 0.019 | 13.4 | 0.056 | 6.5 | <0.05 | 0.2 | 5.3 | <0.5 | 29 | <0.2 | 1.1 | 0.119 | <0.1 | 0.6 | 77 | <0.1 | 61 |
| REP 1089063 | QC | 0.017 | 13.4 | 0.055 | 6.5 | <0.05 | 0.3 | 5.3 | <0.5 | 29 | <0.2 | 1.2 | 0.119 | <0.1 | 0.7 | 77 | <0.1 | 64 |
| 1162139 | Soil | 0.015 | 20.5 | 0.060 | 5.8 | <0.05 | 0.3 | 3.9 | <0.5 | 25 | <0.2 | 2.4 | 0.110 | <0.1 | 0.6 | 72 | 0.1 | 51 |
| REP 1162139 | QC | 0.016 | 20.1 | 0.061 | 5.6 | <0.05 | 0.3 | 4.3 | <0.5 | 26 | <0.2 | 2.4 | 0.115 | <0.1 | 0.6 | 71 | <0.1 | 53 |
| 1089025 | Soil | 0.013 | 62.9 | 0.071 | 2.4 | <0.05 | 0.1 | 1.9 | <0.5 | 21 | <0.2 | 0.8 | 0.173 | 0.1 | 0.2 | 72 | <0.1 | 50 |
| REP 1089025 | QC | 0.013 | 62.8 | 0.071 | 2.2 | <0.05 | <0.1 | 1.8 | <0.5 | 21 | <0.2 | 0.8 | 0.172 | 0.1 | 0.2 | 72 | <0.1 | 49 |
| 1089092 | Soil | 0.015 | 14.7 | 0.044 | 6.8 | <0.05 | 0.3 | 4.5 | <0.5 | 18 | <0.2 | 2.1 | 0.134 | 0.1 | 0.6 | 66 | 0.1 | 59 |
| REP 1089092 | QC | 0.014 | 15.3 | 0.043 | 7.0 | <0.05 | 0.3 | 4.2 | <0.5 | 18 | <0.2 | 2.1 | 0.127 | 0.1 | 0.6 | 64 | <0.1 | 62 |
| 1089112 | Soil | 0.015 | 21.1 | 0.065 | 6.6 | <0.05 | 0.2 | 3.8 | 0.8 | 27 | <0.2 | 2.1 | 0.136 | <0.1 | 0.5 | 82 | <0.1 | 73 |
| REP 1089112 | QC | 0.015 | 19.7 | 0.064 | 6.6 | <0.05 | 0.2 | 3.7 | 0.9 | 27 | <0.2 | 2.2 | 0.134 | <0.1 | 0.5 | 79 | 0.1 | 72 |
| 1089116 | Soil | 0.012 | 17.7 | 0.038 | 8.0 | <0.05 | 1.1 | 3.3 | <0.5 | 23 | <0.2 | 2.2 | 0.091 | <0.1 | 0.5 | 69 | <0.1 | 62 |
| REP 1089116 | QC | 0.013 | 17.9 | 0.038 | 8.4 | <0.05 | 1.1 | 3.4 | <0.5 | 23 | <0.2 | 2.3 | 0.093 | <0.1 | 0.5 | 71 | <0.1 | 64 |
| 1089003 | Soil | 0.012 | 21.3 | 0.054 | 7.3 | <0.05 | 0.3 | 3.6 | <0.5 | 23 | <0.2 | 2.1 | 0.093 | <0.1 | 0.6 | 74 | <0.1 | 57 |
| REP 1089003 | QC | 0.012 | 21.5 | 0.053 | 7.3 | <0.05 | 0.4 | 3.6 | <0.5 | 22 | <0.2 | 2.0 | 0.091 | <0.1 | 0.6 | 75 | 0.1 | 57 |
| 1160285 | Soil | 0.016 | 19.6 | 0.065 | 6.5 | <0.05 | 0.2 | 3.9 | <0.5 | 26 | <0.2 | 2.4 | 0.151 | 0.1 | 0.6 | 80 | 0.1 | 67 |
| REP 1160285 | QC | 0.015 | 19.1 | 0.063 | 6.4 | <0.05 | 0.3 | 3.6 | <0.5 | 27 | <0.2 | 2.4 | 0.148 | 0.1 | 0.6 | 78 | 0.1 | 70 |
| 1162192 | Soil | 0.019 | 18.7 | 0.062 | 7.1 | <0.05 | 0.3 | 3.6 | <0.5 | 25 | <0.2 | 3.0 | 0.145 | <0.1 | 0.6 | 78 | 0.1 | 54 |
| REP 1162192 | QC | 0.019 | 17.8 | 0.062 | 6.8 | <0.05 | 0.3 | 3.4 | <0.5 | 23 | <0.2 | 2.8 | 0.142 | <0.1 | 0.5 | 76 | 0.1 | 54 |
| 1162205 | Soil | 0.031 | 13.8 | 0.046 | 6.0 | <0.05 | 0.3 | 5.1 | 0.6 | 18 | <0.2 | 1.7 | 0.106 | 0.1 | 0.4 | 102 | <0.1 | 61 |
| REP 1162205 | QC | 0.031 | 14.3 | 0.047 | 6.4 | <0.05 | 0.3 | 5.2 | <0.5 | 18 | <0.2 | 1.8 | 0.104 | 0.1 | 0.4 | 105 | <0.1 | 59 |
| 1162123 | Soil | 0.039 | 20.2 | 0.066 | 6.4 | <0.05 | 0.5 | 3.6 | <0.5 | 38 | <0.2 | 2.9 | 0.091 | <0.1 | 0.7 | 60 | 0.1 | 56 |
| REP 1162123 | QC | 0.038 | 20.3 | 0.066 | 6.5 | <0.05 | 0.5 | 3.7 | <0.5 | 39 | <0.2 | 2.8 | 0.098 | <0.1 | 0.7 | 62 | 0.1 | 58 |
| 1089136 | Soil | 0.013 | 14.4 | 0.039 | 5.9 | <0.05 | 0.2 | 3.5 | <0.5 | 20 | <0.2 | 1.7 | 0.126 | <0.1 | 0.5 | 66 | 0.1 | 47 |
| REP 1089136 | QC | 0.015 | 17.7 | 0.041 | 6.4 | <0.05 | 0.2 | 4.1 | <0.5 | 22 | <0.2 | 2.0 | 0.142 | <0.1 | 0.6 | 73 | 0.1 | 55 |
| 1089133 | Soil | 0.022 | 19.8 | 0.078 | 6.1 | <0.05 | 0.2 | 5.4 | <0.5 | 29 | <0.2 | 2.2 | 0.157 | <0.1 | 0.8 | 92 | <0.1 | 73 |
| REP 1089133 | QC | 0.024 | 19.6 | 0.076 | 6.0 | <0.05 | 0.1 | 5.3 | <0.5 | 28 | <0.2 | 2.2 | 0.158 | 0.1 | 0.7 | 90 | <0.1 | 71 |
| 1089126 | Soil | 0.024 | 29.4 | 0.034 | 7.8 | <0.05 | 0.5 | 4.0 | 0.7 | 24 | <0.2 | 2.9 | 0.128 | <0.1 | 0.5 | 84 | <0.1 | 63 |
| REP 1089126 | QC | 0.026 | 29.5 | 0.035 | 7.9 | <0.05 | 0.4 | 4.0 | <0.5 | 23 | <0.2 | 3.0 | 0.133 | <0.1 | 0.5 | 85 | <0.1 | 62 |

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Project: TSL
Report Date: August 24, 2011



# QUALITY CONTROL REPORT DAW11000161.1

| | | 1DX15 Au ppb 0.5 | 1DX15 Ag ppm 0.1 | 1DX15 Al % 0.01 | 1DX15 As ppm 0.5 | 1DX15 B ppm 1 | 1DX15 Ba ppm 1 | 1DX15 Bi ppm 0.1 | 1DX15 Ca % 0.01 | 1DX15 Cd ppm 0.1 | 1DX15 Co ppm 0.1 | 1DX15 Cr ppm 1 | 1DX15 Cu ppm 0.1 | 1DX15 Fe % 0.01 | 1DX15 Ga ppm 1 | 1DX15 Hg ppm 0.01 | 1DX15 K % 0.01 | 1DX15 La ppm 1 | 1DX15 Mg % 0.01 | 1DX15 Mn ppm 1 | 1DX15 Mo ppm 0.1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1162188 | Soil | 1.7 | 0.1 | 1.83 | 4.7 | 2 | 391 | 0.1 | 0.37 | 0.2 | 13.9 | 27 | 28.0 | 3.01 | 6 | 0.03 | 0.07 | 15 | 0.65 | 576 | 0.6 |
| REP 1162188 | QC | <0.5 | <0.1 | 1.77 | 5.0 | 1 | 385 | 0.1 | 0.35 | 0.2 | 13.6 | 26 | 27.5 | 3.03 | 6 | 0.03 | 0.06 | 14 | 0.63 | 573 | 0.7 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS8 | Standard | 129.1 | 1.9 | 0.86 | 25.2 | 3 | 268 | 6.6 | 0.64 | 2.5 | 7.6 | 116 | 112.5 | 2.50 | 5 | 0.22 | 0.41 | 13 | 0.58 | 612 | 13.1 |
| STD DS8 | Standard | 114.8 | 1.9 | 1.00 | 25.4 | 3 | 301 | 6.9 | 0.76 | 2.4 | 7.9 | 120 | 114.9 | 2.66 | 5 | 0.22 | 0.45 | 16 | 0.67 | 656 | 14.5 |
| STD DS8 | Standard | 122.6 | 1.8 | 0.94 | 25.7 | 3 | 286 | 7.1 | 0.69 | 2.4 | 7.8 | 124 | 114.2 | 2.46 | 5 | 0.19 | 0.42 | 15 | 0.66 | 617 | 14.0 |
| STD DS8 | Standard | 112.6 | 1.9 | 0.97 | 24.6 | 2 | 285 | 7.0 | 0.79 | 2.5 | 7.8 | 119 | 113.5 | 2.62 | 5 | 0.22 | 0.46 | 16 | 0.67 | 631 | 14.0 |
| STD DS8 | Standard | 117.4 | 2.0 | 0.95 | 25.3 | 3 | 294 | 6.9 | 0.77 | 2.4 | 7.3 | 122 | 112.3 | 2.60 | 5 | 0.22 | 0.43 | 17 | 0.63 | 648 | 14.8 |
| STD DS8 | Standard | 117.6 | 1.9 | 0.91 | 25.3 | 2 | 283 | 6.2 | 0.70 | 2.6 | 7.6 | 117 | 111.9 | 2.39 | 5 | 0.21 | 0.42 | 14 | 0.59 | 610 | 13.0 |
| STD DS8 | Standard | 112.8 | 1.7 | 0.90 | 24.5 | 4 | 284 | 6.4 | 0.68 | 2.2 | 7.3 | 111 | 99.8 | 2.36 | 5 | 0.21 | 0.44 | 14 | 0.61 | 592 | 13.1 |
| STD DS8 | Standard | 116.4 | 1.8 | 0.87 | 23.7 | 2 | 263 | 5.9 | 0.66 | 2.2 | 7.1 | 109 | 97.8 | 2.31 | 4 | 0.20 | 0.44 | 13 | 0.58 | 568 | 12.7 |
| STD DS8 | Standard | 108.0 | 1.8 | 0.92 | 24.7 | 2 | 285 | 7.0 | 0.67 | 2.4 | 7.3 | 116 | 108.6 | 2.43 | 5 | 0.21 | 0.42 | 16 | 0.64 | 618 | 13.4 |
| STD DS8 | Standard | 109.2 | 1.8 | 0.86 | 24.9 | 4 | 271 | 5.9 | 0.65 | 2.4 | 7.4 | 117 | 107.7 | 2.47 | 4 | 0.20 | 0.40 | 12 | 0.57 | 609 | 12.4 |
| STD DS8 | Standard | 112.3 | 1.9 | 0.93 | 26.5 | 2 | 296 | 7.0 | 0.70 | 2.5 | 8.2 | 121 | 118.5 | 2.59 | 5 | 0.23 | 0.43 | 14 | 0.63 | 628 | 13.5 |
| 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 |
| 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 |
| 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: August 24, 2011



# QUALITY CONTROL REPORT DAW11000161.1

| | | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Na | Ni | P | Pb | S | Sb | Sc | Se | Sr | Te | Th | Ti | Tl | U | V | W | Zn |
| | | % | ppm | % | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| | | 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 |
| 1162188 | Soil | 0.020 | 15.2 | 0.046 | 11.3 | <0.05 | 0.3 | 5.9 | <0.5 | 25 | <0.2 | 2.9 | 0.045 | <0.1 | 0.8 | 76 | <0.1 | 70 |
| REP 1162188 | QC | 0.020 | 16.5 | 0.044 | 10.4 | <0.05 | 0.3 | 5.4 | <0.5 | 24 | <0.2 | 2.7 | 0.043 | <0.1 | 0.8 | 71 | 0.1 | 69 |
| Reference Materials | | | | | | | | | | | | | | | | | | |
| STD DS8 | Standard | 0.092 | 39.4 | 0.079 | 123.3 | 0.17 | 5.6 | 2.3 | 4.9 | 62 | 5.4 | 6.9 | 0.112 | 5.4 | 2.8 | 41 | 3.0 | 310 |
| STD DS8 | Standard | 0.122 | 41.0 | 0.079 | 132.8 | 0.17 | 6.1 | 3.4 | 5.0 | 78 | 5.0 | 7.0 | 0.126 | 5.9 | 3.1 | 45 | 3.2 | 331 |
| STD DS8 | Standard | 0.084 | 38.6 | 0.081 | 130.8 | 0.15 | 6.0 | 2.0 | 5.1 | 72 | 5.0 | 7.8 | 0.126 | 5.5 | 3.0 | 44 | 3.2 | 317 |
| STD DS8 | Standard | 0.114 | 39.8 | 0.081 | 134.1 | 0.17 | 6.2 | 3.0 | 5.3 | 75 | 5.6 | 7.2 | 0.118 | 5.7 | 2.9 | 44 | 3.1 | 326 |
| STD DS8 | Standard | 0.088 | 37.7 | 0.081 | 128.6 | 0.22 | 6.2 | 2.5 | 5.9 | 75 | 5.4 | 7.6 | 0.123 | 5.6 | 2.9 | 42 | 3.3 | 325 |
| STD DS8 | Standard | 0.093 | 37.8 | 0.077 | 112.6 | 0.14 | 5.2 | 2.7 | 4.3 | 66 | 5.6 | 6.3 | 0.118 | 5.3 | 2.5 | 44 | 2.9 | 302 |
| STD DS8 | Standard | 0.099 | 35.2 | 0.077 | 116.6 | 0.16 | 5.5 | 1.8 | 5.0 | 63 | 4.8 | 6.4 | 0.105 | 5.1 | 2.7 | 40 | 2.9 | 303 |
| STD DS8 | Standard | 0.087 | 34.8 | 0.077 | 109.3 | 0.15 | 5.0 | 1.6 | 4.8 | 61 | 4.9 | 5.8 | 0.104 | 4.8 | 2.4 | 40 | 2.7 | 292 |
| STD DS8 | Standard | 0.085 | 38.2 | 0.078 | 126.5 | 0.16 | 5.8 | 1.8 | 5.4 | 70 | 4.8 | 7.5 | 0.125 | 5.4 | 2.9 | 42 | 3.1 | 312 |
| STD DS8 | Standard | 0.074 | 39.6 | 0.077 | 124.7 | 0.15 | 5.3 | 1.7 | 5.4 | 62 | 4.9 | 6.5 | 0.111 | 5.4 | 2.7 | 41 | 3.1 | 313 |
| STD DS8 | Standard | 0.095 | 40.1 | 0.081 | 121.4 | 0.16 | 6.1 | 2.3 | 5.2 | 69 | 5.5 | 6.7 | 0.125 | 5.7 | 2.7 | 43 | 3.3 | 322 |
| 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 |
| 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 |
| 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 |

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