



**BUREAU
VERITAS**

MINERAL LABORATORIES
Canada

www.bvna.com/mining-laboratory-services

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client:

Palmer

470 Granville St. - Suite 630

Vancouver British Columbia V6C 1V5 Canada

Submitted By: Dave Sacco
Receiving Lab: Canada-Vancouver
Received: November 15, 2022
Analysis Start: January 05, 2023
Report Date: March 07, 2023
Page: 1 of 6

CERTIFICATE OF ANALYSIS

VAN22003159.1

CLIENT JOB INFORMATION

Project: AER
Shipment ID: 3302042332
P.O. Number: 2207801
Number of Samples: 127

SAMPLE DISPOSAL

IMM-PLP Return immediately after analysis
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

Invoice To: Palmer
470 Granville St. - Suite 630
Vancouver British Columbia V6C 1V5
Canada

CC: Dean Meek

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Procedure Code | Number of Samples | Code Description | Test Wgt (g) | Report Status | Lab |
|----------------|-------------------|---|--------------|---------------|-----|
| SS230 | 114 | Dry at 60C sieve 100g to -230 mesh | | | VAN |
| SLBHP | 13 | Sort, label and box pulps | | | VAN |
| SPTPL | 107 | Splitting of pulp samples for extra analysis | | | VAN |
| LF100-EXT | 127 | LiBO2/Li2B4O7 fusion ICP-MS analysis | 0.2 | Completed | VAN |
| LF300 | 127 | LiBO2/Li2B4O7 fusion ICP-ES analysis | 0.2 | Completed | VAN |
| TC000-C | 127 | Total C Analysis by Leco | 0.1 | Completed | VAN |
| TC005 | 127 | Graphite and Organic C by Leco After Ignition | 0.1 | Completed | VAN |
| TC006 | 127 | Inorganic Carbon | 0.2 | Completed | VAN |
| AQ251_EXT_REE | 127 | 1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis | 15 | Completed | VAN |

ADDITIONAL COMMENTS

Major oxides do not sum to 100% due to possible incomplete fusion of some minerals or other element oxides may be present.


Martin Wong
Data Validation Specialist

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. Bureau Veritas 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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CERTIFICATE OF ANALYSIS

VAN22003159.1

| | Method | Analyte | Unit | MDL | WGHT | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | | | |
|--------------|--------|---------|------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-----|
| | | | | | Wgt | Ba | Be | Co | Cs | Ga | Hf | Nb | Rb | Sn | Sr | Ta | Th | U | V | W | Zr | Y | La | Ce | |
| | | | | | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | | | | | 0.01 | 1 | 1 | 0.2 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 1 | 0.5 | 0.1 | 0.2 | 0.1 | 8 | 0.5 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| AER22TS-2001 | Pulp | DUP | | | 634 | <1 | 13.2 | 5.4 | 13.8 | 6.2 | 13.5 | 86.2 | 2 | 98.7 | 0.9 | 12.6 | 7.2 | 142 | 1.3 | 204.7 | 27.3 | 37.0 | 81.7 | | |
| AER22TS-2002 | Till | | | | 1.46 | 592 | <1 | 11.3 | 4.6 | 11.0 | 6.0 | 10.6 | 78.0 | 1 | 110.2 | 0.9 | 10.4 | 4.6 | 121 | 1.2 | 221.3 | 22.4 | 30.5 | 61.4 | |
| AER22TS-2003 | Till | | | | 1.52 | 636 | <1 | 6.2 | 3.8 | 9.8 | 5.0 | 10.3 | 65.5 | 1 | 133.9 | 0.7 | 8.8 | 3.6 | 104 | 1.0 | 178.8 | 23.7 | 28.2 | 51.6 | |
| AER22TS-2004 | Till | | | | 1.61 | 500 | 4 | 5.5 | 3.6 | 11.5 | 5.7 | 8.4 | 69.2 | <1 | 239.7 | 0.8 | 12.6 | 3.0 | 81 | 1.2 | 213.3 | 19.9 | 36.1 | 73.2 | |
| AER22TS-2005 | Rock | Pulp | | | 0.07 | 399 | <1 | 43.5 | 2.0 | 11.7 | 3.5 | 13.7 | 31.7 | 6 | 362.7 | 0.4 | 3.8 | 0.7 | 53 | <0.5 | 132.6 | 10.2 | 28.9 | 51.9 | |
| AER22TS-2006 | Till | | | | 1.80 | 480 | 7 | 8.7 | 3.4 | 11.8 | 6.1 | 8.2 | 68.5 | 1 | 241.3 | 0.7 | 12.8 | 2.8 | 72 | 1.0 | 220.8 | 18.7 | 40.4 | 79.4 | |
| AER22TS-2007 | Till | | | | 1.67 | 711 | 2 | 6.1 | 4.1 | 10.9 | 4.9 | 8.7 | 66.5 | <1 | 252.9 | 0.8 | 11.0 | 2.8 | 87 | 1.2 | 177.8 | 19.7 | 34.2 | 65.0 | |
| AER22TS-2008 | Till | | | | 1.67 | 604 | <1 | 9.1 | 5.1 | 12.6 | 5.3 | 10.2 | 83.6 | 1 | 202.7 | 0.8 | 11.9 | 3.0 | 106 | 1.1 | 192.9 | 22.5 | 37.2 | 72.3 | |
| AER22TS-2009 | Till | | | | 1.71 | 1250 | <1 | 12.4 | 5.6 | 11.2 | 4.3 | 12.7 | 83.5 | 1 | 165.1 | 0.9 | 8.8 | 3.5 | 169 | 1.6 | 162.6 | 27.4 | 31.4 | 59.3 | |
| AER22TS-2010 | Till | | | | 1.56 | 467 | <1 | 8.0 | 3.8 | 10.9 | 6.2 | 8.3 | 60.8 | 1 | 231.3 | 0.7 | 11.0 | 2.5 | 78 | 0.8 | 206.3 | 19.8 | 35.6 | 68.7 | |
| AER22TS-2011 | Till | | | | 1.58 | 463 | 3 | 8.5 | 3.2 | 10.6 | 5.8 | 8.5 | 64.0 | <1 | 224.3 | 0.7 | 10.5 | 2.4 | 76 | 0.8 | 207.9 | 18.0 | 33.4 | 67.6 | |
| AER22TS-2012 | Till | | | | 1.52 | 1419 | <1 | 2.6 | 8.1 | 14.8 | 3.8 | 16.6 | 107.9 | 2 | 292.8 | 1.1 | 14.3 | 6.9 | 269 | 1.0 | 147.2 | 17.1 | 41.6 | 81.0 | |
| AER22TS-2013 | Till | | | | 1.42 | 768 | <1 | 10.6 | 5.3 | 14.0 | 5.8 | 12.5 | 97.7 | 1 | 149.9 | 0.9 | 11.3 | 3.9 | 153 | 1.3 | 217.0 | 19.9 | 34.3 | 69.3 | |
| AER22TS-2014 | Till | | | | 1.69 | 608 | <1 | 13.8 | 5.8 | 14.0 | 5.8 | 13.2 | 85.3 | 2 | 97.4 | 0.8 | 11.8 | 6.8 | 120 | 1.3 | 217.2 | 27.8 | 38.3 | 78.8 | |
| AER22TS-2015 | Till | | | | 1.82 | 683 | 10 | 13.6 | 6.2 | 14.8 | 5.5 | 13.7 | 86.7 | 2 | 98.7 | 1.0 | 12.3 | 6.8 | 127 | 1.8 | 213.9 | 27.1 | 37.2 | 78.3 | |
| AER22TS-2016 | Till | | | | 1.16 | 656 | <1 | 11.7 | 6.5 | 15.8 | 5.5 | 14.6 | 89.4 | 2 | 109.4 | 1.1 | 11.6 | 4.4 | 122 | 1.6 | 197.5 | 35.9 | 40.4 | 78.7 | |
| AER22TS-2017 | Till | | | | 1.23 | 702 | <1 | 7.4 | 4.5 | 11.6 | 5.3 | 10.7 | 75.9 | 1 | 140.6 | 0.7 | 9.8 | 4.3 | 130 | 1.3 | 203.5 | 22.7 | 31.5 | 60.9 | |
| AER22TS-2018 | Till | | | | 1.30 | 622 | <1 | 11.2 | 4.7 | 11.5 | 7.2 | 11.0 | 75.8 | 1 | 126.3 | 0.8 | 10.4 | 3.7 | 96 | 1.4 | 256.9 | 23.0 | 33.7 | 67.0 | |
| AER22TS-2019 | Till | | | | 1.58 | 470 | <1 | 5.0 | 2.4 | 8.6 | 6.6 | 8.5 | 54.4 | <1 | 228.8 | 0.6 | 9.8 | 3.0 | 64 | 1.1 | 240.7 | 20.2 | 30.9 | 59.8 | |
| AER22TS-2020 | Till | | | | 1.17 | 827 | <1 | 10.4 | 6.3 | 15.5 | 5.4 | 12.3 | 92.2 | 2 | 139.9 | 0.8 | 10.8 | 4.0 | 132 | 2.0 | 188.4 | 24.7 | 35.7 | 65.9 | |
| AER22TS-4001 | Till | | | | 1.69 | 547 | 5 | 12.2 | 4.5 | 12.6 | 3.7 | 8.5 | 89.7 | 1 | 179.2 | 0.8 | 9.5 | 3.5 | 86 | 1.0 | 142.4 | 17.1 | 30.4 | 59.5 | |
| AER22TS-4002 | Till | | | | 1.14 | 647 | <1 | 14.8 | 6.1 | 16.7 | 4.0 | 10.2 | 108.8 | 1 | 175.7 | 0.7 | 11.1 | 3.4 | 131 | 1.5 | 147.7 | 19.9 | 36.6 | 71.3 | |
| AER22TS-4003 | Till | | | | 1.71 | 796 | 7 | 14.1 | 5.7 | 15.4 | 4.8 | 11.4 | 98.6 | 1 | 131.2 | 0.7 | 10.0 | 6.1 | 176 | 1.2 | 185.8 | 26.6 | 35.6 | 73.2 | |
| AER22TS-4004 | Till | | | | 1.37 | 645 | <1 | 9.1 | 4.0 | 10.9 | 4.8 | 9.9 | 73.7 | 1 | 152.2 | 0.7 | 9.4 | 3.0 | 115 | 1.0 | 179.2 | 22.7 | 29.3 | 60.2 | |
| AER22TS-4005 | Till | | | | 1.71 | 661 | 1 | 4.3 | 3.6 | 9.9 | 7.2 | 11.7 | 57.5 | 1 | 145.3 | 0.7 | 10.9 | 2.5 | 72 | 1.4 | 275.6 | 17.6 | 32.1 | 51.8 | |
| AER22TS-4006 | Till | | | | 1.25 | 669 | 1 | 14.4 | 6.6 | 17.0 | 3.7 | 11.2 | 105.5 | 2 | 155.0 | 0.8 | 10.9 | 3.7 | 155 | 1.7 | 139.8 | 23.4 | 37.8 | 73.7 | |
| AER22TS-4007 | Till | | | | 1.30 | 664 | 6 | 10.7 | 4.6 | 10.7 | 4.2 | 10.8 | 75.2 | 1 | 151.8 | 0.7 | 8.3 | 3.7 | 116 | 1.1 | 147.0 | 21.6 | 29.3 | 55.7 | |
| AER22TS-4008 | Till | | | | 1.48 | 711 | 6 | 11.7 | 5.9 | 15.1 | 5.5 | 11.6 | 96.6 | 2 | 153.1 | 0.8 | 11.8 | 3.8 | 150 | 1.7 | 212.1 | 24.0 | 36.8 | 71.6 | |
| AER22TS-4009 | Rock | Pulp | | | 0.07 | 429 | 3 | 48.2 | 2.0 | 11.8 | 3.8 | 15.5 | 34.7 | 6 | 383.1 | 0.5 | 4.0 | 0.8 | 53 | 0.5 | 146.0 | 10.9 | 32.5 | 55.4 | |
| AER22TS-4010 | Till | | | | 1.48 | 1039 | 4 | 5.0 | 9.6 | 16.4 | 3.8 | 20.2 | 130.7 | 2 | 193.0 | 1.4 | 13.6 | 9.3 | 232 | 1.7 | 144.2 | 19.7 | 44.8 | 82.7 | |



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CERTIFICATE OF ANALYSIS

VAN22003159.1

| Method Analyte Unit MDL | | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |
|----------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu | Mo | Cu | Pb | Zn | Ni | As | Cd | Sb |
| | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | | 0.02 | 0.3 | 0.05 | 0.02 | 0.05 | 0.01 | 0.05 | 0.02 | 0.03 | 0.01 | 0.05 | 0.01 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.5 | 0.1 | 0.1 |
| AER22TS-2001 | Pulp DUP | 9.10 | 34.6 | 7.35 | 1.54 | 6.45 | 0.95 | 5.50 | 1.11 | 3.30 | 0.47 | 2.96 | 0.46 | 4.3 | 34.5 | 16.6 | 144 | 37.7 | 15.3 | 0.2 | 0.2 |
| AER22TS-2002 | Till | 6.93 | 25.6 | 4.92 | 0.97 | 4.45 | 0.68 | 4.20 | 0.78 | 2.43 | 0.35 | 2.30 | 0.39 | 3.7 | 28.1 | 14.0 | 118 | 33.9 | 14.2 | 0.7 | 0.3 |
| AER22TS-2003 | Till | 6.41 | 24.1 | 4.40 | 1.05 | 4.22 | 0.65 | 4.04 | 0.80 | 2.32 | 0.33 | 2.32 | 0.36 | 3.5 | 28.8 | 11.8 | 105 | 22.1 | 11.7 | 0.6 | 0.2 |
| AER22TS-2004 | Till | 7.88 | 28.6 | 5.30 | 1.01 | 4.28 | 0.65 | 3.88 | 0.71 | 2.16 | 0.33 | 2.26 | 0.33 | 0.8 | 21.1 | 10.3 | 47 | 22.5 | 7.4 | 0.2 | 0.2 |
| AER22TS-2005 | Rock Pulp | 5.84 | 21.4 | 3.41 | 0.90 | 2.81 | 0.34 | 1.86 | 0.36 | 0.97 | 0.15 | 1.03 | 0.15 | 12.0 | 156.6 | 256.7 | 212 | 81.2 | 9.2 | 0.5 | 0.2 |
| AER22TS-2006 | Till | 8.23 | 30.0 | 5.11 | 1.01 | 4.48 | 0.63 | 3.70 | 0.74 | 2.02 | 0.31 | 2.09 | 0.33 | 0.9 | 16.7 | 10.7 | 42 | 25.3 | 5.5 | 0.1 | 0.2 |
| AER22TS-2007 | Till | 7.25 | 26.3 | 4.68 | 0.97 | 4.22 | 0.60 | 3.60 | 0.69 | 2.06 | 0.30 | 2.00 | 0.30 | 0.6 | 18.8 | 8.8 | 42 | 19.6 | 8.8 | 0.1 | 0.2 |
| AER22TS-2008 | Till | 8.04 | 29.3 | 5.34 | 1.05 | 4.68 | 0.65 | 3.95 | 0.79 | 2.37 | 0.35 | 2.21 | 0.35 | 2.2 | 24.9 | 12.5 | 67 | 27.8 | 11.2 | 0.2 | 0.2 |
| AER22TS-2009 | Till | 7.09 | 27.2 | 5.09 | 1.22 | 4.91 | 0.78 | 4.69 | 0.99 | 2.72 | 0.41 | 2.60 | 0.43 | 4.4 | 44.7 | 16.3 | 133 | 47.3 | 12.4 | 1.1 | 0.3 |
| AER22TS-2010 | Till | 7.60 | 27.0 | 5.03 | 1.00 | 4.29 | 0.62 | 3.55 | 0.66 | 2.02 | 0.31 | 2.09 | 0.31 | 0.9 | 21.1 | 11.6 | 53 | 24.7 | 9.5 | 0.1 | 0.2 |
| AER22TS-2011 | Till | 7.21 | 26.7 | 4.79 | 0.98 | 4.11 | 0.59 | 3.45 | 0.69 | 2.03 | 0.28 | 1.92 | 0.30 | 1.1 | 17.7 | 10.0 | 48 | 24.7 | 7.2 | 0.2 | 0.1 |
| AER22TS-2012 | Till | 8.58 | 27.5 | 4.41 | 0.91 | 3.21 | 0.49 | 2.95 | 0.65 | 2.01 | 0.32 | 2.14 | 0.35 | 9.7 | 55.5 | 22.5 | 82 | 8.8 | 11.6 | 0.2 | 0.3 |
| AER22TS-2013 | Till | 7.70 | 28.1 | 5.29 | 1.08 | 4.31 | 0.65 | 3.86 | 0.83 | 2.36 | 0.34 | 2.41 | 0.37 | 3.7 | 30.0 | 12.7 | 68 | 23.9 | 11.1 | <0.1 | 0.2 |
| AER22TS-2014 | Till | 8.96 | 35.4 | 6.81 | 1.53 | 6.32 | 0.88 | 5.27 | 1.01 | 2.94 | 0.44 | 2.83 | 0.41 | 4.2 | 32.0 | 16.9 | 135 | 35.4 | 15.4 | 0.2 | 0.2 |
| AER22TS-2015 | Till | 9.05 | 34.8 | 7.04 | 1.48 | 6.39 | 0.93 | 5.57 | 1.11 | 3.18 | 0.44 | 2.87 | 0.42 | 4.2 | 34.4 | 16.6 | 142 | 37.9 | 15.3 | 0.2 | 0.2 |
| AER22TS-2016 | Till | 10.41 | 40.9 | 8.04 | 1.79 | 7.94 | 1.12 | 6.55 | 1.29 | 3.70 | 0.51 | 3.21 | 0.48 | 1.8 | 27.6 | 15.2 | 98 | 32.1 | 10.1 | <0.1 | <0.1 |
| AER22TS-2017 | Till | 7.06 | 26.7 | 5.34 | 1.07 | 4.53 | 0.67 | 3.94 | 0.83 | 2.41 | 0.32 | 2.25 | 0.36 | 4.3 | 35.7 | 12.1 | 111 | 34.4 | 13.1 | 0.8 | 0.3 |
| AER22TS-2018 | Till | 7.54 | 29.3 | 5.33 | 1.07 | 4.79 | 0.69 | 4.25 | 0.83 | 2.52 | 0.36 | 2.42 | 0.38 | 1.3 | 22.4 | 11.8 | 76 | 24.9 | 9.6 | 0.3 | 0.2 |
| AER22TS-2019 | Till | 6.79 | 26.1 | 4.69 | 0.95 | 4.14 | 0.58 | 3.66 | 0.70 | 2.31 | 0.30 | 2.06 | 0.31 | 0.7 | 19.3 | 9.0 | 36 | 15.8 | 7.2 | 0.2 | 0.2 |
| AER22TS-2020 | Till | 7.80 | 28.2 | 5.19 | 1.10 | 4.83 | 0.75 | 4.51 | 0.90 | 2.69 | 0.36 | 2.27 | 0.36 | 2.6 | 34.6 | 17.7 | 126 | 41.4 | 14.3 | 0.4 | 0.2 |
| AER22TS-4001 | Till | 6.56 | 25.2 | 4.63 | 0.91 | 3.93 | 0.53 | 3.15 | 0.63 | 1.91 | 0.26 | 1.74 | 0.28 | 1.2 | 19.4 | 14.1 | 67 | 32.9 | 5.6 | 0.3 | 0.1 |
| AER22TS-4002 | Till | 7.71 | 28.9 | 5.26 | 1.05 | 4.26 | 0.59 | 3.49 | 0.72 | 2.07 | 0.31 | 2.03 | 0.30 | 1.4 | 25.5 | 13.7 | 80 | 39.8 | 7.6 | 0.4 | 0.1 |
| AER22TS-4003 | Till | 7.78 | 29.2 | 5.51 | 1.10 | 5.00 | 0.73 | 4.43 | 0.88 | 2.56 | 0.36 | 2.34 | 0.38 | 9.6 | 54.8 | 16.1 | 257 | 47.7 | 24.9 | 1.3 | 0.5 |
| AER22TS-4004 | Till | 6.57 | 24.3 | 4.65 | 1.02 | 4.49 | 0.64 | 3.90 | 0.80 | 2.35 | 0.33 | 2.24 | 0.35 | 1.6 | 29.3 | 14.3 | 89 | 28.6 | 10.1 | 0.4 | 0.2 |
| AER22TS-4005 | Till | 5.21 | 19.0 | 3.31 | 0.65 | 2.96 | 0.47 | 2.85 | 0.68 | 1.94 | 0.31 | 1.99 | 0.31 | 0.9 | 12.1 | 17.8 | 37 | 3.0 | 17.0 | <0.1 | <0.1 |
| AER22TS-4006 | Till | 7.94 | 30.0 | 5.28 | 1.06 | 4.37 | 0.63 | 3.84 | 0.78 | 2.17 | 0.32 | 2.15 | 0.35 | 1.5 | 29.0 | 13.5 | 88 | 41.3 | 9.1 | 0.4 | 0.2 |
| AER22TS-4007 | Till | 6.43 | 26.6 | 4.57 | 0.95 | 4.16 | 0.60 | 3.50 | 0.73 | 2.24 | 0.31 | 2.10 | 0.29 | 1.7 | 28.4 | 12.8 | 82 | 27.8 | 9.4 | 0.4 | 0.2 |
| AER22TS-4008 | Till | 8.12 | 30.3 | 5.72 | 1.11 | 5.06 | 0.72 | 4.19 | 0.88 | 2.58 | 0.36 | 2.34 | 0.36 | 1.8 | 30.6 | 14.4 | 95 | 33.2 | 11.2 | 0.4 | 0.2 |
| AER22TS-4009 | Rock Pulp | 6.38 | 22.9 | 3.86 | 0.95 | 2.69 | 0.37 | 1.94 | 0.37 | 1.04 | 0.15 | 1.06 | 0.14 | 12.1 | 157.1 | 277.5 | 213 | 82.6 | 9.6 | 0.5 | 0.2 |
| AER22TS-4010 | Till | 9.42 | 33.6 | 5.07 | 1.02 | 3.63 | 0.52 | 3.22 | 0.68 | 2.06 | 0.30 | 2.12 | 0.33 | 23.9 | 37.2 | 22.7 | 105 | 10.9 | 18.3 | 0.2 | 0.4 |



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CERTIFICATE OF ANALYSIS

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| Method Analyte | Unit MDL | AQ200 Bi | AQ200 Ag | AQ200 Au | AQ200 Hg | AQ200 Tl | AQ200 Se | LF300 SiO2 | LF300 Al2O3 | LF300 Fe2O3 | LF300 MgO | LF300 CaO | LF300 Na2O | LF300 K2O | LF300 TiO2 | LF300 P2O5 | LF300 MnO | LF300 Cr2O3 | LF300 Ba | LF300 Ni | LF300 Sr |
|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|----------------|----------------|--------------|--------------|---------------|--------------|---------------|---------------|--------------|----------------|-------------|-------------|-------------|
| | | ppm 0.1 | ppm 0.1 | ppb 0.5 | ppm 0.01 | ppm 0.1 | ppm 0.5 | % 0.01 | % 0.01 | % 0.04 | % 0.01 | % 0.01 | % 0.01 | % 0.01 | % 0.01 | % 0.01 | % 0.01 | % 0.002 | ppm 5 | ppm 20 | ppm 2 |
| AER22TS-2001 | Pulp DUP | 0.3 | 0.1 | 2.1 | 0.05 | 0.3 | 1.9 | 66.71 | 13.38 | 5.95 | 1.03 | 0.38 | 0.56 | 2.12 | 0.72 | 0.14 | 0.05 | 0.012 | 719 | 43 | 106 |
| AER22TS-2002 | Till | 0.2 | 0.3 | 1.2 | 0.07 | 0.2 | 1.4 | 62.71 | 11.74 | 5.35 | 2.33 | 3.32 | 0.65 | 2.39 | 0.62 | 0.18 | 0.06 | 0.010 | 698 | 40 | 125 |
| AER22TS-2003 | Till | 0.2 | 0.3 | 0.8 | 0.05 | 0.2 | 1.1 | 63.42 | 9.87 | 4.04 | 2.55 | 5.54 | 0.68 | 2.09 | 0.57 | 0.18 | 0.03 | 0.009 | 752 | 26 | 150 |
| AER22TS-2004 | Till | 0.2 | <0.1 | 0.9 | 0.02 | 0.2 | <0.5 | 55.32 | 10.84 | 4.04 | 2.38 | 9.70 | 0.68 | 2.14 | 0.48 | 0.15 | 0.04 | 0.008 | 551 | 27 | 268 |
| AER22TS-2005 | Rock Pulp | 0.1 | 0.1 | 32.5 | 0.01 | <0.1 | <0.5 | 71.89 | 12.15 | 4.00 | 1.71 | 3.29 | 3.40 | 1.45 | 0.38 | 0.12 | 0.07 | 0.016 | 455 | 89 | 398 |
| AER22TS-2006 | Till | 0.2 | <0.1 | 0.6 | 0.02 | 0.2 | <0.5 | 59.20 | 11.16 | 3.85 | 2.51 | 7.75 | 0.77 | 2.13 | 0.46 | 0.14 | 0.05 | 0.008 | 529 | 25 | 270 |
| AER22TS-2007 | Till | 0.1 | <0.1 | 1.4 | 0.03 | 0.2 | <0.5 | 51.91 | 10.12 | 3.64 | 2.21 | 13.12 | 0.70 | 1.96 | 0.45 | 0.15 | 0.04 | 0.008 | 805 | 23 | 281 |
| AER22TS-2008 | Till | 0.2 | <0.1 | 1.2 | 0.05 | 0.2 | <0.5 | 59.64 | 12.23 | 5.00 | 2.25 | 5.78 | 0.80 | 2.41 | 0.54 | 0.21 | 0.05 | 0.012 | 683 | 32 | 228 |
| AER22TS-2009 | Till | 0.2 | 0.8 | 3.1 | 0.13 | 0.6 | 1.6 | 62.10 | 11.55 | 4.19 | 1.43 | 4.76 | 0.36 | 2.28 | 0.70 | 0.25 | 0.06 | 0.013 | 1526 | 50 | 194 |
| AER22TS-2010 | Till | 0.1 | <0.1 | 0.9 | 0.03 | 0.2 | <0.5 | 51.75 | 11.09 | 4.44 | 2.13 | 13.29 | 0.74 | 2.11 | 0.51 | 0.18 | 0.05 | 0.010 | 590 | 31 | 289 |
| AER22TS-2011 | Till | 0.2 | 0.1 | 1.3 | 0.04 | 0.2 | <0.5 | 62.11 | 10.43 | 3.75 | 2.07 | 7.57 | 0.68 | 2.10 | 0.46 | 0.15 | 0.05 | 0.008 | 516 | 29 | 258 |
| AER22TS-2012 | Till | 0.3 | 0.6 | 4.3 | 0.18 | 0.5 | 3.6 | 63.40 | 13.74 | 3.99 | 0.92 | 1.04 | 0.31 | 2.92 | 0.71 | 0.33 | <0.01 | 0.016 | 1566 | <20 | 320 |
| AER22TS-2013 | Till | 0.2 | 0.2 | 3.2 | 0.08 | 0.4 | 0.9 | 68.20 | 12.88 | 4.42 | 1.25 | 0.60 | 0.52 | 2.52 | 0.64 | 0.15 | 0.05 | 0.012 | 871 | 30 | 162 |
| AER22TS-2014 | Till | 0.3 | 0.1 | 2.3 | 0.06 | 0.3 | 1.9 | 66.94 | 13.38 | 5.83 | 1.01 | 0.39 | 0.60 | 2.18 | 0.72 | 0.15 | 0.04 | 0.012 | 677 | 41 | 109 |
| AER22TS-2015 | Till | 0.3 | 0.1 | 1.9 | 0.06 | 0.3 | 1.9 | 66.64 | 13.35 | 5.96 | 1.02 | 0.38 | 0.55 | 2.10 | 0.72 | 0.14 | 0.05 | 0.011 | 715 | 44 | 107 |
| AER22TS-2016 | Till | 0.3 | <0.1 | 1.1 | 0.05 | 0.2 | 0.9 | 62.29 | 14.94 | 5.61 | 1.35 | 0.92 | 0.44 | 2.06 | 0.71 | 0.13 | 0.05 | 0.012 | 734 | 42 | 121 |
| AER22TS-2017 | Till | 0.2 | 0.4 | 2.4 | 0.07 | 0.3 | 0.9 | 56.95 | 11.17 | 4.49 | 2.94 | 6.94 | 0.58 | 2.00 | 0.58 | 0.17 | 0.03 | 0.011 | 773 | 39 | 157 |
| AER22TS-2018 | Till | 0.2 | 0.1 | 0.7 | 0.04 | 0.1 | 1.0 | 65.10 | 11.54 | 4.63 | 2.24 | 3.18 | 0.74 | 2.31 | 0.62 | 0.18 | 0.06 | 0.011 | 678 | 30 | 140 |
| AER22TS-2019 | Till | 0.1 | 0.1 | 1.6 | 0.04 | 0.2 | 0.6 | 54.85 | 8.40 | 3.41 | 2.35 | 12.38 | 0.59 | 1.61 | 0.45 | 0.13 | 0.04 | 0.007 | 534 | 20 | 252 |
| AER22TS-2020 | Till | 0.3 | 0.3 | 1.6 | 0.09 | 0.2 | 0.9 | 64.38 | 13.51 | 5.40 | 1.57 | 1.84 | 0.53 | 2.35 | 0.69 | 0.21 | 0.04 | 0.013 | 922 | 47 | 152 |
| AER22TS-4001 | Till | 0.2 | <0.1 | 1.1 | 0.03 | 0.2 | 0.9 | 45.72 | 11.30 | 4.33 | 4.29 | 12.93 | 0.58 | 2.57 | 0.50 | 0.13 | 0.07 | 0.009 | 611 | 41 | 197 |
| AER22TS-4002 | Till | 0.3 | 0.1 | 0.8 | 0.03 | 0.1 | 0.8 | 49.24 | 14.40 | 4.62 | 3.63 | 8.33 | 0.56 | 3.01 | 0.57 | 0.14 | 0.07 | 0.012 | 698 | 47 | 186 |
| AER22TS-4003 | Till | 0.2 | 0.8 | 3.4 | 0.08 | 0.5 | 1.8 | 56.52 | 13.13 | 6.08 | 2.92 | 4.38 | 0.49 | 2.52 | 0.61 | 0.22 | 0.05 | 0.015 | 878 | 57 | 144 |
| AER22TS-4004 | Till | 0.2 | 0.2 | 1.5 | 0.07 | 0.2 | 0.9 | 62.73 | 10.55 | 3.93 | 2.27 | 5.98 | 0.62 | 2.21 | 0.56 | 0.19 | 0.05 | 0.010 | 721 | 31 | 168 |
| AER22TS-4005 | Till | 0.3 | <0.1 | <0.5 | 0.01 | 0.2 | 1.0 | 75.19 | 8.93 | 4.25 | 0.64 | 0.34 | 0.59 | 1.54 | 0.60 | 0.15 | <0.01 | 0.006 | 738 | <20 | 166 |
| AER22TS-4006 | Till | 0.3 | 0.2 | 1.1 | 0.05 | 0.2 | 0.9 | 52.04 | 14.90 | 5.04 | 2.94 | 6.34 | 0.44 | 2.81 | 0.60 | 0.18 | 0.06 | 0.012 | 750 | 49 | 171 |
| AER22TS-4007 | Till | 0.2 | 0.2 | 1.1 | 0.05 | 0.2 | 0.8 | 59.51 | 10.82 | 3.85 | 2.29 | 7.57 | 0.59 | 2.22 | 0.57 | 0.18 | 0.05 | 0.010 | 775 | 36 | 176 |
| AER22TS-4008 | Till | 0.2 | 0.2 | 1.7 | 0.06 | 0.3 | 0.8 | 58.94 | 13.56 | 4.95 | 2.48 | 4.35 | 0.52 | 2.49 | 0.59 | 0.19 | 0.05 | 0.012 | 778 | 44 | 164 |
| AER22TS-4009 | Rock Pulp | 0.1 | 0.1 | 36.8 | 0.02 | <0.1 | <0.5 | 71.97 | 12.03 | 4.02 | 1.69 | 3.22 | 3.40 | 1.46 | 0.37 | 0.12 | 0.06 | 0.015 | 462 | 92 | 400 |
| AER22TS-4010 | Till | 0.3 | 0.5 | 2.3 | 0.10 | 0.7 | 3.8 | 60.90 | 15.16 | 5.55 | 1.03 | 0.34 | 0.39 | 2.93 | 0.74 | 0.24 | <0.01 | 0.015 | 1139 | 21 | 207 |



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AER

Report Date:

March 07, 2023

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CERTIFICATE OF ANALYSIS

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| | Method Analyte Unit MDL | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | TC000 | TC005 | TC005 | TC006 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|--------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| | | Zr | Y | Nb | Sc | LOI | Sum | TOT/C | C/ORG | C/GRA | CO2 | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As |
| | | ppm | ppm | ppm | ppm | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppb | ppm | ppm | ppm | % | ppm |
| | | 5 | 3 | 5 | 1 | -5.1 | 0.01 | 0.02 | 0.02 | 0.02 | 0.08 | 0.01 | 0.01 | 0.01 | 0.1 | 2 | 0.1 | 0.1 | 1 | 0.01 | 0.1 |
| AER22TS-2001 | Pulp DUP | 248 | 30 | 22 | 14 | 8.7 | 99.93 | 0.84 | 0.80 | 0.02 | <0.08 | 5.06 | 32.56 | 15.81 | 131.9 | 131 | 34.4 | 13.5 | 309 | 2.88 | 14.6 |
| AER22TS-2002 | Till | 259 | 25 | 16 | 11 | 10.4 | 99.91 | 2.03 | 1.16 | <0.02 | 3.15 | 4.32 | 27.21 | 12.68 | 112.9 | 238 | 31.2 | 13.5 | 401 | 2.63 | 13.7 |
| AER22TS-2003 | Till | 223 | 24 | 16 | 9 | 10.8 | 99.92 | 2.08 | 0.82 | <0.02 | 4.54 | 3.93 | 26.49 | 11.12 | 94.6 | 245 | 19.9 | 5.8 | 179 | 1.98 | 11.2 |
| AER22TS-2004 | Till | 238 | 21 | 13 | 8 | 14.0 | 99.93 | 2.74 | 0.82 | <0.02 | 7.01 | 0.94 | 19.61 | 9.65 | 41.3 | 26 | 19.8 | 6.1 | 231 | 2.04 | 7.1 |
| AER22TS-2005 | Rock Pulp | 158 | 11 | 20 | 9 | 1.3 | 99.90 | 0.07 | 0.05 | <0.02 | 0.12 | 11.39 | 144.03 | 247.05 | 197.0 | 102 | 72.9 | 45.9 | 250 | 1.45 | 8.8 |
| AER22TS-2006 | Till | 254 | 21 | 11 | 8 | 11.8 | 99.94 | 2.13 | 0.53 | <0.02 | 5.84 | 0.94 | 15.41 | 9.81 | 39.1 | 41 | 23.1 | 9.3 | 342 | 2.00 | 5.2 |
| AER22TS-2007 | Till | 199 | 21 | 12 | 8 | 15.5 | 99.93 | 3.27 | 0.88 | <0.02 | 8.73 | 0.62 | 17.92 | 8.51 | 39.0 | 59 | 17.9 | 5.6 | 228 | 1.76 | 8.5 |
| AER22TS-2008 | Till | 236 | 25 | 12 | 11 | 10.8 | 99.92 | 1.88 | 0.74 | <0.02 | 4.11 | 2.51 | 24.15 | 11.34 | 61.0 | 90 | 25.6 | 8.4 | 275 | 2.30 | 10.2 |
| AER22TS-2009 | Till | 205 | 30 | 21 | 13 | 12.0 | 99.92 | 2.69 | 2.01 | 0.03 | 2.38 | 5.04 | 42.15 | 14.56 | 119.4 | 726 | 39.3 | 12.9 | 410 | 1.89 | 11.3 |
| AER22TS-2010 | Till | 286 | 23 | 13 | 9 | 13.4 | 99.89 | 1.84 | 0.63 | <0.02 | 4.42 | 1.00 | 19.30 | 10.97 | 48.3 | 60 | 22.2 | 8.0 | 299 | 1.98 | 8.9 |
| AER22TS-2011 | Till | 251 | 20 | 9 | 8 | 10.4 | 99.95 | 1.59 | 0.46 | <0.02 | 4.12 | 1.19 | 15.53 | 9.34 | 43.1 | 92 | 22.0 | 8.0 | 315 | 1.81 | 6.4 |
| AER22TS-2012 | Till | 169 | 18 | 18 | 15 | 12.3 | 99.91 | 3.01 | 2.92 | 0.06 | 0.11 | 9.67 | 46.09 | 18.42 | 64.9 | 508 | 7.2 | 1.4 | 10 | 1.53 | 9.6 |
| AER22TS-2013 | Till | 264 | 21 | 17 | 12 | 8.5 | 99.93 | 1.22 | 1.19 | <0.02 | <0.08 | 4.15 | 27.13 | 11.59 | 59.1 | 197 | 21.0 | 10.2 | 276 | 2.10 | 10.0 |
| AER22TS-2014 | Till | 264 | 30 | 17 | 14 | 8.6 | 99.94 | 0.81 | 0.76 | 0.03 | 0.09 | 4.87 | 30.57 | 15.35 | 120.0 | 130 | 31.6 | 12.9 | 269 | 2.83 | 14.1 |
| AER22TS-2015 | Till | 249 | 29 | 17 | 14 | 8.9 | 99.93 | 0.84 | 0.80 | 0.02 | <0.08 | 5.13 | 32.89 | 15.73 | 136.7 | 127 | 34.7 | 13.7 | 317 | 2.97 | 14.8 |
| AER22TS-2016 | Till | 226 | 38 | 17 | 13 | 11.3 | 99.92 | 1.21 | 1.16 | 0.03 | <0.08 | 2.38 | 25.54 | 14.42 | 91.1 | 90 | 29.8 | 11.2 | 330 | 2.46 | 9.6 |
| AER22TS-2017 | Till | 237 | 23 | 13 | 11 | 13.9 | 99.91 | 2.75 | 1.13 | <0.02 | 5.90 | 3.96 | 30.14 | 9.85 | 91.8 | 324 | 26.9 | 6.6 | 178 | 2.09 | 10.9 |
| AER22TS-2018 | Till | 312 | 25 | 11 | 10 | 9.2 | 99.93 | 1.78 | 1.10 | <0.02 | 2.45 | 1.70 | 22.26 | 11.56 | 73.9 | 144 | 24.0 | 9.9 | 414 | 2.14 | 9.4 |
| AER22TS-2019 | Till | 276 | 21 | 9 | 7 | 15.6 | 99.95 | 3.54 | 0.84 | <0.02 | 9.90 | 0.83 | 19.31 | 9.06 | 35.9 | 139 | 15.9 | 5.1 | 236 | 1.92 | 7.2 |
| AER22TS-2020 | Till | 214 | 26 | 17 | 13 | 9.2 | 99.92 | 1.33 | 1.01 | 0.02 | 1.08 | 3.12 | 31.95 | 15.89 | 117.9 | 241 | 35.8 | 10.9 | 247 | 2.73 | 13.3 |
| AER22TS-4001 | Till | 176 | 19 | 12 | 10 | 17.4 | 99.89 | 3.72 | 0.89 | <0.02 | 10.34 | 1.46 | 18.91 | 13.15 | 65.2 | 87 | 30.9 | 11.8 | 465 | 2.09 | 5.7 |
| AER22TS-4002 | Till | 163 | 20 | 15 | 13 | 15.2 | 99.90 | 3.20 | 1.22 | <0.02 | 7.20 | 1.69 | 24.79 | 12.81 | 76.4 | 108 | 36.0 | 14.1 | 481 | 2.24 | 7.1 |
| AER22TS-4003 | Till | 236 | 27 | 8 | 13 | 12.8 | 99.88 | 2.45 | 1.31 | 0.02 | 4.08 | 10.38 | 50.50 | 14.00 | 230.1 | 684 | 41.9 | 13.0 | 303 | 2.87 | 22.5 |
| AER22TS-4004 | Till | 201 | 23 | 27 | 9 | 10.6 | 99.87 | 1.96 | 0.90 | <0.02 | 3.82 | 1.67 | 25.18 | 12.09 | 74.5 | 206 | 24.0 | 8.4 | 275 | 1.72 | 8.5 |
| AER22TS-4005 | Till | 331 | 18 | 12 | 7 | 7.6 | 99.97 | 0.46 | 0.42 | 0.03 | <0.08 | 1.13 | 12.16 | 17.07 | 35.3 | 20 | 3.0 | 3.9 | 14 | 1.98 | 16.8 |
| AER22TS-4006 | Till | 167 | 22 | 9 | 14 | 14.4 | 99.89 | 2.40 | 1.24 | 0.02 | 4.17 | 1.99 | 28.14 | 12.75 | 85.6 | 171 | 36.3 | 14.3 | 370 | 2.33 | 8.8 |
| AER22TS-4007 | Till | 184 | 22 | 14 | 10 | 12.1 | 99.93 | 2.28 | 1.04 | <0.02 | 4.50 | 1.87 | 26.61 | 11.93 | 77.3 | 210 | 25.6 | 10.4 | 292 | 1.81 | 8.9 |
| AER22TS-4008 | Till | 235 | 25 | 17 | 12 | 11.6 | 99.91 | 1.72 | 0.86 | <0.02 | 3.09 | 2.29 | 28.32 | 13.46 | 88.4 | 173 | 30.4 | 11.4 | 286 | 2.32 | 10.5 |
| AER22TS-4009 | Rock Pulp | 162 | 10 | 19 | 9 | 1.4 | 99.89 | 0.08 | 0.04 | <0.02 | 0.16 | 11.61 | 145.36 | 243.12 | 196.6 | 100 | 74.0 | 46.5 | 251 | 1.48 | 8.7 |
| AER22TS-4010 | Till | 163 | 20 | 23 | 15 | 12.4 | 99.90 | 1.92 | 1.85 | 0.05 | <0.08 | 23.39 | 32.94 | 19.10 | 89.5 | 373 | 9.3 | 3.4 | 36 | 2.33 | 15.4 |



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CERTIFICATE OF ANALYSIS

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| | Method | Analyte | Unit | MDL | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | | | |
|--------------|--------|---------|------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|------|------|
| | | | | | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W |
| | | | | | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm |
| | | | | | 0.1 | 0.2 | 0.1 | 0.5 | 0.01 | 0.02 | 0.02 | 1 | 0.01 | 0.001 | 0.5 | 0.5 | 0.01 | 0.5 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 |
| AER22TS-2001 | Pulp | DUP | | | 4.0 | 2.9 | 8.4 | 33.1 | 0.19 | 0.68 | 0.30 | 29 | 0.16 | 0.051 | 20.1 | 16.8 | 0.23 | 222.0 | 0.002 | 5 | 1.09 | 0.007 | 0.11 | <0.1 |
| AER22TS-2002 | Till | | | | 2.1 | 1.9 | 6.3 | 43.2 | 0.69 | 0.70 | 0.20 | 29 | 1.89 | 0.064 | 16.4 | 17.0 | 0.92 | 197.8 | 0.005 | 9 | 0.89 | 0.008 | 0.18 | <0.1 |
| AER22TS-2003 | Till | | | | 1.5 | 2.0 | 5.3 | 67.1 | 0.58 | 0.56 | 0.18 | 28 | 3.22 | 0.066 | 12.8 | 14.6 | 1.10 | 240.4 | 0.005 | 10 | 0.78 | 0.010 | 0.15 | <0.1 |
| AER22TS-2004 | Till | | | | 1.4 | 1.7 | 7.7 | 120.9 | 0.16 | 0.42 | 0.15 | 35 | 5.54 | 0.052 | 19.7 | 27.7 | 0.99 | 197.7 | 0.027 | 18 | 1.42 | 0.043 | 0.28 | <0.1 |
| AER22TS-2005 | Rock | Pulp | | | 0.4 | 35.3 | 2.8 | 29.2 | 0.46 | 0.20 | 0.13 | 22 | 0.53 | 0.052 | 22.5 | 28.9 | 0.45 | 54.2 | 0.065 | 1 | 0.76 | 0.080 | 0.10 | <0.1 |
| AER22TS-2006 | Till | | | | 1.2 | 1.6 | 8.6 | 110.5 | 0.11 | 0.34 | 0.16 | 32 | 4.51 | 0.046 | 20.8 | 27.2 | 1.11 | 184.2 | 0.027 | 19 | 1.43 | 0.065 | 0.29 | <0.1 |
| AER22TS-2007 | Till | | | | 1.4 | 1.8 | 5.8 | 135.2 | 0.13 | 0.41 | 0.13 | 31 | 7.49 | 0.054 | 15.2 | 22.3 | 0.87 | 280.0 | 0.014 | 16 | 1.18 | 0.100 | 0.23 | <0.1 |
| AER22TS-2008 | Till | | | | 1.2 | 2.0 | 7.5 | 89.4 | 0.16 | 0.55 | 0.18 | 36 | 3.21 | 0.072 | 19.1 | 25.6 | 0.85 | 220.7 | 0.015 | 23 | 1.34 | 0.137 | 0.28 | <0.1 |
| AER22TS-2009 | Till | | | | 1.7 | 4.1 | 5.1 | 102.5 | 1.03 | 0.80 | 0.20 | 31 | 2.80 | 0.090 | 12.1 | 13.6 | 0.38 | 237.6 | 0.003 | 14 | 0.69 | 0.009 | 0.17 | <0.1 |
| AER22TS-2010 | Till | | | | 1.0 | 1.8 | 6.5 | 111.4 | 0.12 | 0.46 | 0.14 | 34 | 6.66 | 0.054 | 17.3 | 26.5 | 0.74 | 61.4 | 0.030 | 15 | 1.23 | 0.022 | 0.25 | <0.1 |
| AER22TS-2011 | Till | | | | 0.9 | 1.8 | 6.4 | 99.9 | 0.13 | 0.36 | 0.15 | 28 | 4.20 | 0.050 | 15.7 | 22.2 | 0.81 | 140.0 | 0.018 | 16 | 1.13 | 0.024 | 0.25 | <0.1 |
| AER22TS-2012 | Till | | | | 3.2 | 5.0 | 8.4 | 177.3 | 0.14 | 0.62 | 0.26 | 37 | 0.57 | 0.100 | 14.0 | 11.3 | 0.06 | 162.5 | <0.001 | 12 | 0.42 | 0.035 | 0.24 | <0.1 |
| AER22TS-2013 | Till | | | | 1.6 | 3.2 | 6.2 | 51.0 | 0.06 | 0.55 | 0.20 | 45 | 0.27 | 0.049 | 15.7 | 25.0 | 0.34 | 296.7 | 0.005 | 10 | 1.39 | 0.009 | 0.26 | <0.1 |
| AER22TS-2014 | Till | | | | 3.8 | 2.2 | 8.0 | 31.2 | 0.15 | 0.69 | 0.29 | 30 | 0.15 | 0.049 | 19.0 | 17.1 | 0.23 | 181.1 | 0.003 | 5 | 1.08 | 0.007 | 0.12 | <0.1 |
| AER22TS-2015 | Till | | | | 3.9 | 2.0 | 8.2 | 32.8 | 0.18 | 0.68 | 0.30 | 31 | 0.16 | 0.051 | 20.6 | 17.7 | 0.24 | 220.2 | 0.002 | 5 | 1.13 | 0.008 | 0.13 | <0.1 |
| AER22TS-2016 | Till | | | | 2.3 | 2.0 | 8.0 | 51.8 | 0.09 | 0.43 | 0.29 | 28 | 0.51 | 0.046 | 22.0 | 20.1 | 0.33 | 301.1 | 0.001 | 6 | 1.29 | 0.014 | 0.17 | <0.1 |
| AER22TS-2017 | Till | | | | 1.9 | 2.6 | 5.1 | 68.5 | 0.63 | 0.75 | 0.17 | 43 | 3.74 | 0.057 | 14.4 | 21.8 | 1.15 | 283.6 | 0.003 | 9 | 1.04 | 0.023 | 0.16 | <0.1 |
| AER22TS-2018 | Till | | | | 1.7 | 2.0 | 6.2 | 48.5 | 0.30 | 0.52 | 0.19 | 24 | 1.85 | 0.067 | 17.0 | 17.5 | 0.90 | 172.2 | 0.006 | 9 | 0.91 | 0.017 | 0.18 | <0.1 |
| AER22TS-2019 | Till | | | | 1.3 | 2.0 | 6.2 | 149.9 | 0.15 | 0.43 | 0.13 | 29 | 7.95 | 0.052 | 16.8 | 21.6 | 1.13 | 219.8 | 0.016 | 17 | 1.18 | 0.023 | 0.19 | <0.1 |
| AER22TS-2020 | Till | | | | 1.8 | 2.2 | 7.2 | 65.7 | 0.38 | 0.91 | 0.27 | 33 | 1.10 | 0.077 | 16.9 | 21.3 | 0.53 | 344.6 | 0.004 | 11 | 1.09 | 0.010 | 0.18 | <0.1 |
| AER22TS-4001 | Till | | | | 1.8 | 0.9 | 6.2 | 113.2 | 0.32 | 0.36 | 0.19 | 28 | 7.94 | 0.048 | 13.9 | 22.0 | 1.99 | 180.8 | 0.010 | 13 | 1.15 | 0.019 | 0.27 | <0.1 |
| AER22TS-4002 | Till | | | | 1.5 | 0.9 | 7.6 | 96.6 | 0.35 | 0.41 | 0.23 | 36 | 5.30 | 0.056 | 17.4 | 27.5 | 1.58 | 251.4 | 0.007 | 14 | 1.41 | 0.035 | 0.33 | <0.1 |
| AER22TS-4003 | Till | | | | 3.0 | 4.7 | 6.3 | 57.1 | 1.19 | 1.48 | 0.21 | 55 | 2.44 | 0.073 | 16.9 | 22.7 | 1.13 | 317.3 | 0.005 | 11 | 1.15 | 0.013 | 0.25 | <0.1 |
| AER22TS-4004 | Till | | | | 1.4 | 2.0 | 5.4 | 73.6 | 0.36 | 0.44 | 0.19 | 28 | 3.26 | 0.062 | 12.7 | 16.1 | 0.86 | 176.1 | 0.005 | 10 | 0.85 | 0.011 | 0.18 | <0.1 |
| AER22TS-4005 | Till | | | | 0.8 | 1.0 | 7.7 | 107.5 | <0.01 | 0.26 | 0.27 | 13 | 0.20 | 0.056 | 18.1 | 5.7 | 0.07 | 267.4 | 0.001 | 4 | 0.45 | 0.128 | 0.13 | <0.1 |
| AER22TS-4006 | Till | | | | 1.7 | 0.9 | 7.0 | 81.6 | 0.36 | 0.51 | 0.24 | 41 | 3.86 | 0.063 | 16.3 | 25.6 | 1.14 | 236.7 | 0.004 | 13 | 1.42 | 0.020 | 0.29 | <0.1 |
| AER22TS-4007 | Till | | | | 1.8 | 1.8 | 5.6 | 79.6 | 0.37 | 0.46 | 0.19 | 31 | 4.44 | 0.065 | 12.7 | 18.1 | 0.92 | 161.5 | 0.005 | 11 | 0.89 | 0.011 | 0.18 | <0.1 |
| AER22TS-4008 | Till | | | | 1.7 | 2.0 | 7.6 | 66.1 | 0.42 | 0.54 | 0.23 | 38 | 2.47 | 0.065 | 17.3 | 23.1 | 0.92 | 254.3 | 0.004 | 12 | 1.25 | 0.013 | 0.25 | <0.1 |
| AER22TS-4009 | Rock | Pulp | | | 0.4 | 35.7 | 2.7 | 30.6 | 0.46 | 0.20 | 0.13 | 23 | 0.55 | 0.051 | 22.2 | 29.8 | 0.45 | 52.9 | 0.066 | 1 | 0.80 | 0.087 | 0.11 | <0.1 |
| AER22TS-4010 | Till | | | | 5.2 | 3.2 | 8.2 | 95.1 | 0.15 | 1.11 | 0.24 | 31 | 0.18 | 0.069 | 13.1 | 11.8 | 0.08 | 209.6 | <0.001 | 11 | 0.61 | 0.139 | 0.23 | <0.1 |



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CERTIFICATE OF ANALYSIS

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| Method Analyte Unit MDL | | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|----------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Sc | Ti | S | Hg | Se | Te | Ga | Cs | Ge | Hf | Nb | Rb | Sn | Ta | Zr | Y | Ce | In | Re | Be |
| | | ppm | ppm | % | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppb | ppm |
| | | 0.1 | 0.02 | 0.02 | 5 | 0.1 | 0.02 | 0.1 | 0.02 | 0.1 | 0.02 | 0.02 | 0.1 | 0.1 | 0.05 | 0.1 | 0.01 | 0.1 | 0.02 | 1 | 0.1 |
| AER22TS-2001 | Pulp DUP | 6.0 | 0.26 | 0.02 | 54 | 1.5 | 0.11 | 3.4 | 1.60 | <0.1 | 0.09 | 0.15 | 16.8 | 0.7 | <0.05 | 5.8 | 16.24 | 49.8 | 0.05 | <1 | 1.0 |
| AER22TS-2002 | Till | 3.9 | 0.26 | 0.03 | 51 | 1.4 | 0.06 | 3.0 | 1.33 | <0.1 | 0.15 | 0.16 | 16.7 | 0.5 | <0.05 | 8.6 | 12.60 | 35.9 | 0.03 | 7 | 0.6 |
| AER22TS-2003 | Till | 3.2 | 0.20 | 0.28 | 53 | 0.8 | 0.07 | 2.5 | 1.19 | <0.1 | 0.15 | 0.16 | 13.4 | 0.4 | <0.05 | 8.2 | 12.32 | 25.4 | 0.02 | 4 | 0.5 |
| AER22TS-2004 | Till | 3.9 | 0.23 | 0.03 | 21 | 0.3 | 0.04 | 4.2 | 1.49 | <0.1 | 0.34 | 0.28 | 24.6 | 0.6 | <0.05 | 20.4 | 10.62 | 40.3 | <0.02 | 1 | 0.6 |
| AER22TS-2005 | Rock Pulp | 2.7 | 0.07 | 0.04 | 20 | <0.1 | <0.02 | 2.3 | 1.01 | <0.1 | 0.15 | 0.48 | 6.3 | 2.1 | <0.05 | 5.5 | 5.12 | 38.9 | 0.03 | <1 | 0.2 |
| AER22TS-2006 | Till | 3.7 | 0.19 | 0.05 | 18 | 0.2 | 0.04 | 4.3 | 1.35 | <0.1 | 0.48 | 0.17 | 23.4 | 0.6 | <0.05 | 25.5 | 10.25 | 44.7 | <0.02 | <1 | 0.7 |
| AER22TS-2007 | Till | 3.4 | 0.17 | 0.54 | 34 | 0.4 | 0.04 | 3.5 | 1.37 | <0.1 | 0.24 | 0.26 | 19.8 | 0.5 | <0.05 | 15.2 | 10.10 | 31.0 | <0.02 | <1 | 0.5 |
| AER22TS-2008 | Till | 4.3 | 0.21 | 0.09 | 41 | 0.3 | 0.07 | 4.0 | 1.69 | <0.1 | 0.22 | 0.20 | 25.1 | 0.6 | <0.05 | 14.6 | 12.44 | 39.7 | 0.02 | 2 | 0.6 |
| AER22TS-2009 | Till | 4.5 | 0.68 | 0.57 | 126 | 1.4 | 0.08 | 2.3 | 1.52 | <0.1 | 0.17 | 0.13 | 16.6 | 0.5 | <0.05 | 10.0 | 17.61 | 25.8 | 0.04 | 14 | 0.5 |
| AER22TS-2010 | Till | 4.0 | 0.17 | 2.42 | 35 | 0.4 | 0.06 | 3.9 | 1.59 | <0.1 | 0.49 | 0.32 | 19.6 | 0.5 | <0.05 | 23.5 | 10.28 | 35.3 | <0.02 | <1 | 0.5 |
| AER22TS-2011 | Till | 3.3 | 0.15 | 0.88 | 28 | 0.3 | 0.05 | 3.3 | 1.26 | <0.1 | 0.40 | 0.18 | 17.2 | 0.5 | <0.05 | 20.1 | 9.48 | 33.9 | <0.02 | <1 | 0.5 |
| AER22TS-2012 | Till | 4.9 | 0.52 | 0.72 | 155 | 2.9 | 0.11 | 1.8 | 1.33 | <0.1 | 0.15 | 0.14 | 12.6 | 0.5 | <0.05 | 6.5 | 5.45 | 29.4 | 0.06 | 24 | 0.3 |
| AER22TS-2013 | Till | 4.6 | 0.32 | 0.03 | 67 | 0.6 | 0.09 | 4.0 | 1.41 | <0.1 | 0.09 | 0.25 | 24.6 | 0.6 | <0.05 | 5.6 | 9.28 | 33.3 | 0.03 | 1 | 0.7 |
| AER22TS-2014 | Till | 5.9 | 0.25 | <0.02 | 58 | 1.6 | 0.11 | 3.4 | 1.74 | <0.1 | 0.09 | 0.15 | 17.8 | 0.7 | <0.05 | 5.7 | 15.53 | 47.5 | 0.04 | 1 | 0.9 |
| AER22TS-2015 | Till | 6.2 | 0.26 | <0.02 | 58 | 1.7 | 0.10 | 3.7 | 1.68 | <0.1 | 0.09 | 0.14 | 17.6 | 0.7 | <0.05 | 5.6 | 16.45 | 49.9 | 0.05 | <1 | 0.9 |
| AER22TS-2016 | Till | 4.7 | 0.18 | 0.03 | 49 | 0.7 | 0.06 | 3.7 | 1.58 | <0.1 | 0.13 | 0.10 | 18.3 | 0.7 | <0.05 | 6.7 | 24.85 | 48.1 | 0.04 | <1 | 1.3 |
| AER22TS-2017 | Till | 3.9 | 0.23 | 0.07 | 63 | 0.7 | 0.06 | 3.5 | 1.17 | <0.1 | 0.10 | 0.17 | 14.9 | 0.5 | <0.05 | 5.4 | 11.80 | 29.0 | 0.02 | <1 | 0.6 |
| AER22TS-2018 | Till | 3.5 | 0.17 | 0.47 | 43 | 0.9 | 0.06 | 3.0 | 1.34 | <0.1 | 0.17 | 0.12 | 15.9 | 0.5 | <0.05 | 9.6 | 12.51 | 35.2 | 0.02 | 3 | 0.6 |
| AER22TS-2019 | Till | 3.3 | 0.17 | 0.06 | 46 | 0.6 | 0.05 | 3.4 | 1.10 | <0.1 | 0.23 | 0.34 | 16.3 | 0.5 | <0.05 | 15.6 | 10.75 | 35.0 | <0.02 | 1 | 0.6 |
| AER22TS-2020 | Till | 4.7 | 0.27 | 0.03 | 87 | 0.7 | 0.08 | 3.6 | 1.92 | <0.1 | 0.18 | 0.15 | 19.9 | 0.6 | <0.05 | 8.9 | 14.21 | 35.8 | 0.03 | 3 | 0.7 |
| AER22TS-4001 | Till | 3.9 | 0.18 | 0.75 | 27 | 1.0 | 0.05 | 3.7 | 1.44 | <0.1 | 0.24 | 0.17 | 21.4 | 0.5 | <0.05 | 10.9 | 10.05 | 29.2 | 0.02 | 3 | 0.6 |
| AER22TS-4002 | Till | 5.0 | 0.16 | 0.29 | 25 | 0.8 | 0.05 | 4.4 | 1.61 | <0.1 | 0.26 | 0.09 | 23.1 | 0.6 | <0.05 | 11.6 | 11.81 | 37.7 | 0.03 | 3 | 0.7 |
| AER22TS-4003 | Till | 5.1 | 0.46 | 0.03 | 80 | 1.6 | 0.08 | 4.0 | 1.59 | <0.1 | 0.14 | 0.15 | 22.2 | 0.6 | <0.05 | 7.2 | 14.89 | 37.3 | 0.03 | 2 | 0.7 |
| AER22TS-4004 | Till | 3.2 | 0.21 | 0.65 | 61 | 0.8 | 0.05 | 2.6 | 1.29 | <0.1 | 0.17 | 0.13 | 14.5 | 0.4 | <0.05 | 9.1 | 11.76 | 29.2 | 0.02 | 6 | 0.5 |
| AER22TS-4005 | Till | 1.9 | 0.17 | 0.49 | 10 | 0.9 | 0.09 | 1.7 | 1.04 | <0.1 | 0.11 | 0.09 | 11.3 | 0.5 | <0.05 | 5.3 | 4.30 | 26.0 | 0.04 | 1 | 0.3 |
| AER22TS-4006 | Till | 5.0 | 0.19 | 0.54 | 43 | 0.7 | 0.07 | 4.4 | 1.68 | <0.1 | 0.26 | 0.14 | 23.2 | 0.6 | <0.05 | 12.8 | 13.02 | 35.0 | 0.03 | 7 | 0.8 |
| AER22TS-4007 | Till | 3.5 | 0.23 | 0.96 | 57 | 0.7 | 0.06 | 2.9 | 1.36 | <0.1 | 0.21 | 0.15 | 15.7 | 0.4 | <0.05 | 11.4 | 11.99 | 27.2 | 0.02 | 8 | 0.5 |
| AER22TS-4008 | Till | 4.6 | 0.27 | 0.24 | 58 | 0.6 | 0.08 | 3.9 | 1.72 | <0.1 | 0.19 | 0.13 | 20.2 | 0.6 | <0.05 | 10.1 | 14.09 | 36.9 | 0.03 | 3 | 0.7 |
| AER22TS-4009 | Rock Pulp | 2.8 | 0.07 | 0.04 | 15 | <0.1 | <0.02 | 2.4 | 1.02 | <0.1 | 0.16 | 0.39 | 6.5 | 2.2 | <0.05 | 5.5 | 5.30 | 38.3 | 0.03 | <1 | 0.2 |
| AER22TS-4010 | Till | 4.3 | 0.71 | 0.73 | 93 | 3.3 | 0.11 | 2.3 | 1.43 | <0.1 | 0.10 | 0.18 | 19.1 | 0.5 | <0.05 | 5.2 | 6.45 | 28.6 | 0.05 | 15 | 0.4 |



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| Method Analyte Unit MDL | | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|----------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Li | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu | Pd | Pt |
| | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppb | ppb |
| | | 0.1 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 10 | 2 |
| AER22TS-2001 | Pulp DUP | 10.0 | 6.22 | 24.71 | 5.61 | 1.15 | 4.86 | 0.67 | 3.65 | 0.64 | 1.61 | 0.21 | 1.27 | 0.17 | <10 | <2 |
| AER22TS-2002 | Till | 12.6 | 4.39 | 16.92 | 3.41 | 0.66 | 3.06 | 0.41 | 2.29 | 0.41 | 1.07 | 0.14 | 0.83 | 0.11 | <10 | <2 |
| AER22TS-2003 | Till | 12.8 | 3.48 | 14.32 | 3.12 | 0.65 | 2.98 | 0.41 | 2.33 | 0.42 | 1.10 | 0.14 | 0.84 | 0.11 | <10 | <2 |
| AER22TS-2004 | Till | 24.8 | 4.91 | 18.02 | 3.35 | 0.62 | 2.78 | 0.36 | 2.04 | 0.36 | 0.97 | 0.13 | 0.84 | 0.12 | <10 | <2 |
| AER22TS-2005 | Rock Pulp | 8.1 | 4.63 | 15.97 | 2.36 | 0.51 | 1.59 | 0.18 | 1.02 | 0.18 | 0.48 | 0.06 | 0.41 | 0.06 | 41 | 25 |
| AER22TS-2006 | Till | 27.2 | 5.16 | 18.64 | 3.39 | 0.61 | 2.74 | 0.35 | 1.95 | 0.34 | 0.93 | 0.12 | 0.80 | 0.11 | <10 | <2 |
| AER22TS-2007 | Till | 20.7 | 3.81 | 14.31 | 2.78 | 0.53 | 2.42 | 0.32 | 1.86 | 0.34 | 0.93 | 0.12 | 0.76 | 0.11 | <10 | <2 |
| AER22TS-2008 | Till | 25.1 | 4.79 | 18.14 | 3.51 | 0.69 | 3.06 | 0.40 | 2.31 | 0.42 | 1.15 | 0.15 | 0.93 | 0.13 | <10 | <2 |
| AER22TS-2009 | Till | 7.7 | 3.53 | 15.52 | 3.73 | 0.86 | 3.90 | 0.56 | 3.24 | 0.59 | 1.55 | 0.19 | 1.12 | 0.15 | <10 | <2 |
| AER22TS-2010 | Till | 24.6 | 4.32 | 16.05 | 3.01 | 0.58 | 2.60 | 0.35 | 1.98 | 0.36 | 0.97 | 0.13 | 0.82 | 0.12 | <10 | <2 |
| AER22TS-2011 | Till | 20.7 | 3.98 | 15.18 | 2.86 | 0.55 | 2.47 | 0.33 | 1.83 | 0.34 | 0.90 | 0.12 | 0.75 | 0.10 | <10 | <2 |
| AER22TS-2012 | Till | 2.4 | 3.37 | 10.95 | 2.10 | 0.43 | 1.68 | 0.21 | 1.24 | 0.21 | 0.57 | 0.08 | 0.45 | 0.06 | <10 | <2 |
| AER22TS-2013 | Till | 16.2 | 3.96 | 15.50 | 3.27 | 0.66 | 2.78 | 0.38 | 2.18 | 0.38 | 0.98 | 0.13 | 0.81 | 0.11 | <10 | <2 |
| AER22TS-2014 | Till | 8.9 | 5.93 | 24.01 | 5.46 | 1.10 | 4.69 | 0.63 | 3.46 | 0.60 | 1.53 | 0.19 | 1.20 | 0.16 | <10 | <2 |
| AER22TS-2015 | Till | 9.7 | 6.20 | 25.03 | 5.68 | 1.16 | 4.98 | 0.68 | 3.69 | 0.63 | 1.64 | 0.21 | 1.27 | 0.17 | <10 | <2 |
| AER22TS-2016 | Till | 13.3 | 7.54 | 31.07 | 6.84 | 1.43 | 6.50 | 0.91 | 5.12 | 0.92 | 2.37 | 0.31 | 1.85 | 0.26 | <10 | <2 |
| AER22TS-2017 | Till | 15.5 | 3.78 | 14.87 | 3.13 | 0.63 | 2.90 | 0.39 | 2.23 | 0.40 | 1.05 | 0.13 | 0.78 | 0.11 | <10 | <2 |
| AER22TS-2018 | Till | 13.3 | 4.42 | 17.27 | 3.46 | 0.69 | 3.14 | 0.42 | 2.38 | 0.43 | 1.12 | 0.14 | 0.87 | 0.12 | <10 | <2 |
| AER22TS-2019 | Till | 20.9 | 4.29 | 16.28 | 3.16 | 0.59 | 2.69 | 0.36 | 2.00 | 0.36 | 0.97 | 0.13 | 0.79 | 0.12 | <10 | <2 |
| AER22TS-2020 | Till | 16.4 | 4.64 | 18.49 | 3.92 | 0.82 | 3.72 | 0.51 | 2.87 | 0.51 | 1.33 | 0.17 | 1.02 | 0.14 | <10 | <2 |
| AER22TS-4001 | Till | 20.4 | 3.50 | 14.09 | 2.83 | 0.56 | 2.55 | 0.33 | 1.85 | 0.33 | 0.86 | 0.11 | 0.68 | 0.09 | <10 | <2 |
| AER22TS-4002 | Till | 22.7 | 4.42 | 17.32 | 3.54 | 0.71 | 3.11 | 0.41 | 2.33 | 0.41 | 1.08 | 0.14 | 0.84 | 0.12 | <10 | <2 |
| AER22TS-4003 | Till | 14.0 | 4.57 | 17.81 | 3.78 | 0.77 | 3.52 | 0.48 | 2.75 | 0.50 | 1.29 | 0.16 | 0.96 | 0.13 | <10 | <2 |
| AER22TS-4004 | Till | 13.2 | 3.44 | 14.14 | 3.09 | 0.64 | 2.95 | 0.40 | 2.31 | 0.42 | 1.08 | 0.14 | 0.83 | 0.12 | <10 | <2 |
| AER22TS-4005 | Till | 2.3 | 2.61 | 9.96 | 1.92 | 0.33 | 1.38 | 0.17 | 0.96 | 0.16 | 0.43 | 0.06 | 0.36 | 0.05 | <10 | <2 |
| AER22TS-4006 | Till | 22.4 | 4.30 | 16.89 | 3.48 | 0.74 | 3.20 | 0.44 | 2.46 | 0.45 | 1.17 | 0.15 | 0.90 | 0.13 | <10 | <2 |
| AER22TS-4007 | Till | 14.6 | 3.40 | 13.96 | 3.09 | 0.65 | 2.91 | 0.39 | 2.30 | 0.41 | 1.08 | 0.14 | 0.84 | 0.12 | <10 | <2 |
| AER22TS-4008 | Till | 18.4 | 4.66 | 18.44 | 3.85 | 0.80 | 3.60 | 0.48 | 2.76 | 0.50 | 1.30 | 0.17 | 1.01 | 0.14 | <10 | <2 |
| AER22TS-4009 | Rock Pulp | 7.8 | 4.65 | 15.87 | 2.34 | 0.51 | 1.56 | 0.19 | 1.03 | 0.18 | 0.48 | 0.06 | 0.41 | 0.06 | 41 | 23 |
| AER22TS-4010 | Till | 4.2 | 3.58 | 12.81 | 2.50 | 0.52 | 2.09 | 0.27 | 1.53 | 0.25 | 0.64 | 0.08 | 0.49 | 0.07 | <10 | <2 |



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CERTIFICATE OF ANALYSIS

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| | Method Analyte Unit MDL | WGHT | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 |
|--------------|----------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Wgt | Ba | Be | Co | Cs | Ga | Hf | Nb | Rb | Sn | Sr | Ta | Th | U | V | W | Zr | Y | La | Ce |
| | | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | | 0.01 | 1 | 1 | 0.2 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 1 | 0.5 | 0.1 | 0.2 | 0.1 | 8 | 0.5 | 0.1 | 0.1 | 0.1 | 0.1 |
| AER22TS-4011 | Till | 1.65 | 624 | 5 | 13.4 | 5.5 | 12.1 | 3.8 | 10.8 | 80.6 | 1 | 162.9 | 0.7 | 8.9 | 7.5 | 125 | 1.3 | 143.9 | 21.2 | 29.8 | 55.8 |
| AER22TS-4012 | Till | 1.55 | 759 | 1 | 17.8 | 5.8 | 15.5 | 4.0 | 12.0 | 102.2 | 1 | 166.5 | 1.0 | 10.7 | 4.8 | 155 | 1.4 | 149.2 | 23.0 | 36.7 | 70.8 |
| AER22TS-4013 | Till | 1.38 | 857 | 1 | 24.2 | 6.7 | 14.2 | 4.1 | 14.0 | 97.8 | 2 | 147.1 | 0.8 | 10.3 | 9.4 | 191 | 1.3 | 162.8 | 26.1 | 37.4 | 71.8 |
| AER22TS-4014 | Till | 1.66 | 847 | 3 | 10.2 | 5.9 | 14.2 | 4.9 | 13.9 | 95.5 | 2 | 151.1 | 0.8 | 10.0 | 4.3 | 156 | 1.2 | 192.2 | 26.3 | 35.7 | 68.7 |
| AER22TS-4015 | Till | 2.05 | 857 | 2 | 9.0 | 5.8 | 13.1 | 4.6 | 14.2 | 96.3 | 1 | 151.8 | 0.8 | 9.9 | 4.0 | 167 | 1.2 | 183.9 | 27.9 | 35.3 | 66.2 |
| AER22TS-4016 | Pulp DUP | | 863 | 2 | 9.2 | 6.3 | 13.8 | 4.7 | 13.1 | 95.0 | 2 | 149.3 | 0.9 | 10.7 | 4.1 | 171 | 1.4 | 184.5 | 27.1 | 36.2 | 67.9 |
| AER22TS-4017 | Till | 1.60 | 1132 | 4 | 10.4 | 5.1 | 13.1 | 5.8 | 12.0 | 83.7 | 1 | 137.9 | 0.8 | 9.9 | 3.1 | 149 | 1.3 | 226.7 | 26.6 | 34.2 | 62.2 |
| AER22TS-4018 | Till | 1.53 | 827 | 2 | 15.0 | 5.9 | 13.1 | 5.3 | 11.5 | 83.2 | 2 | 133.3 | 0.8 | 10.6 | 3.3 | 138 | 1.3 | 203.7 | 23.3 | 33.3 | 67.5 |
| AER22TS-4019 | Till | 1.54 | 1050 | 4 | 12.3 | 6.3 | 13.7 | 6.7 | 12.7 | 82.2 | 2 | 125.9 | 0.9 | 10.0 | 4.3 | 142 | 1.5 | 233.1 | 27.4 | 33.2 | 63.3 |
| AER22TS-4020 | Till | 1.72 | 2541 | 2 | 14.6 | 6.2 | 15.5 | 6.3 | 13.1 | 88.1 | 2 | 141.0 | 0.9 | 12.2 | 4.8 | 152 | 1.6 | 239.2 | 33.0 | 37.5 | 76.4 |
| AER22TS-4021 | Pulp DUP | | 1053 | 7 | 13.0 | 5.6 | 13.8 | 5.6 | 13.3 | 87.9 | 2 | 136.5 | 1.1 | 11.4 | 3.6 | 144 | 1.3 | 211.4 | 29.9 | 38.8 | 73.8 |
| AER22TS-4022 | Till | 1.72 | 1702 | 4 | 5.1 | 8.7 | 17.6 | 4.5 | 15.9 | 103.5 | 2 | 230.8 | 0.8 | 10.9 | 3.9 | 177 | 1.2 | 163.6 | 18.3 | 38.0 | 70.2 |
| AER22TS-4023 | Till | 1.81 | 707 | 2 | 12.9 | 4.8 | 12.7 | 6.1 | 12.5 | 79.4 | 1 | 130.2 | 0.8 | 10.7 | 4.0 | 128 | 1.3 | 229.2 | 22.7 | 31.1 | 64.0 |
| AER22TS-4024 | Till | 1.42 | 741 | 2 | 11.2 | 6.4 | 16.1 | 7.0 | 12.8 | 91.8 | 2 | 114.6 | 0.8 | 15.6 | 4.6 | 145 | 0.9 | 256.8 | 42.6 | 49.5 | 99.1 |
| AER22TS-4025 | Till | 1.67 | 775 | 4 | 11.4 | 6.5 | 15.6 | 4.6 | 13.1 | 101.8 | 2 | 147.2 | 1.0 | 11.1 | 7.4 | 155 | 1.6 | 167.9 | 26.2 | 36.2 | 71.5 |
| AER22TS-4026 | Till | 1.73 | 859 | <1 | 9.6 | 4.3 | 10.2 | 3.9 | 7.8 | 76.8 | 1 | 192.4 | 0.5 | 7.9 | 2.7 | 80 | 0.8 | 157.0 | 16.5 | 25.5 | 50.6 |
| AER22TS-4027 | Till | 1.40 | 731 | <1 | 11.4 | 6.8 | 17.6 | 4.3 | 10.8 | 106.5 | 2 | 187.5 | 0.8 | 12.0 | 3.5 | 154 | 1.7 | 165.6 | 21.6 | 39.4 | 74.9 |
| AER22TS-4028 | Till | 1.43 | 1403 | <1 | 14.5 | 5.8 | 14.7 | 5.7 | 13.4 | 89.1 | 2 | 150.7 | 0.7 | 11.1 | 3.6 | 149 | 1.4 | 221.7 | 33.8 | 40.4 | 77.4 |
| AER22TS-4029 | Till | 1.55 | 1106 | <1 | 14.2 | 6.5 | 14.5 | 6.0 | 14.1 | 95.5 | 2 | 143.2 | 1.2 | 11.4 | 3.6 | 155 | 1.1 | 225.2 | 33.3 | 42.2 | 79.4 |
| AER22TS-4030 | Till | 1.63 | 639 | <1 | 40.8 | 6.4 | 16.7 | 7.8 | 14.2 | 95.3 | 2 | 111.8 | 1.0 | 15.8 | 8.3 | 135 | 1.4 | 291.0 | 22.1 | 31.0 | 64.1 |
| AER22TS-4031 | Till | 1.46 | 1059 | <1 | 12.5 | 6.8 | 16.6 | 6.4 | 14.0 | 95.5 | 2 | 144.2 | 0.9 | 11.4 | 3.5 | 165 | 1.4 | 256.8 | 28.8 | 39.5 | 76.5 |
| AER22TS-4032 | Till | 1.72 | 726 | 2 | 7.6 | 4.8 | 13.4 | 7.9 | 13.9 | 74.1 | 1 | 118.1 | 0.8 | 10.6 | 3.0 | 115 | 1.6 | 310.4 | 34.2 | 39.4 | 78.5 |
| AER22TS-4033 | Till | 1.72 | 622 | <1 | 14.5 | 4.4 | 14.4 | 8.4 | 13.4 | 82.2 | 2 | 153.9 | 0.7 | 10.2 | 2.8 | 103 | 1.1 | 335.2 | 29.6 | 35.7 | 73.6 |
| AER22TS-4034 | Rock Pulp | 0.07 | 480 | <1 | 54.8 | 2.0 | 14.2 | 4.2 | 16.4 | 37.4 | 7 | 436.1 | 0.3 | 4.0 | 0.9 | 59 | <0.5 | 163.9 | 11.1 | 32.4 | 57.8 |
| AER22TS-4035 | Till | 1.90 | 605 | <1 | 13.7 | 3.6 | 12.3 | 9.5 | 12.7 | 66.8 | 1 | 156.6 | 0.8 | 9.8 | 3.0 | 92 | 1.7 | 364.0 | 29.4 | 35.6 | 72.9 |
| AER22TS-4036 | Till | 1.93 | 623 | <1 | 9.0 | 4.1 | 13.1 | 9.8 | 13.8 | 75.1 | 2 | 124.4 | 1.1 | 10.6 | 3.0 | 100 | 1.2 | 385.3 | 31.3 | 37.8 | 76.8 |
| AER22TS-4037 | Till | 1.91 | 653 | <1 | 21.3 | 4.0 | 13.3 | 7.9 | 11.7 | 77.3 | 2 | 153.2 | 0.9 | 9.8 | 3.2 | 102 | 1.3 | 321.5 | 25.2 | 34.7 | 70.8 |
| AER22TS-4038 | Till | 2.61 | 559 | <1 | 10.2 | 2.4 | 9.2 | 14.6 | 13.3 | 55.5 | 1 | 117.1 | 1.0 | 9.9 | 3.0 | 69 | 1.0 | 606.7 | 31.2 | 35.6 | 75.8 |
| AER22TS-4039 | Till | 1.85 | 628 | <1 | 12.2 | 4.0 | 12.6 | 9.5 | 13.4 | 74.2 | 2 | 123.4 | 0.9 | 9.7 | 3.2 | 95 | 1.7 | 411.5 | 28.3 | 37.0 | 74.6 |
| AER22TS-4040 | Till | 1.95 | 570 | <1 | 10.3 | 3.1 | 10.0 | 12.6 | 13.2 | 58.6 | 1 | 126.5 | 0.8 | 10.5 | 2.9 | 78 | 1.4 | 526.0 | 32.0 | 35.7 | 73.6 |



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Project: AER
Report Date: March 07, 2023

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CERTIFICATE OF ANALYSIS

VAN22003159.1

| | Method Analyte Unit MDL | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |
|--------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu | Mo | Cu | Pb | Zn | Ni | As | Cd | Sb |
| | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | | 0.02 | 0.3 | 0.05 | 0.02 | 0.05 | 0.01 | 0.05 | 0.02 | 0.03 | 0.01 | 0.05 | 0.01 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.5 | 0.1 | 0.1 |
| AER22TS-4011 | Till | 6.50 | 24.5 | 4.59 | 0.92 | 4.20 | 0.59 | 3.55 | 0.65 | 2.08 | 0.34 | 1.82 | 0.30 | 13.5 | 29.6 | 12.2 | 116 | 36.7 | 16.3 | 1.0 | 0.3 |
| AER22TS-4012 | Till | 8.01 | 30.2 | 5.38 | 1.16 | 4.84 | 0.67 | 4.02 | 0.81 | 2.55 | 0.35 | 2.06 | 0.33 | 2.2 | 32.4 | 14.1 | 98 | 45.6 | 10.3 | 0.6 | 0.2 |
| AER22TS-4013 | Till | 7.97 | 30.1 | 5.37 | 1.18 | 5.21 | 0.75 | 4.44 | 0.88 | 2.57 | 0.36 | 2.48 | 0.38 | 24.6 | 45.9 | 21.4 | 227 | 57.3 | 74.2 | 3.4 | 1.0 |
| AER22TS-4014 | Till | 7.91 | 28.9 | 5.55 | 1.10 | 5.10 | 0.74 | 4.29 | 0.86 | 2.74 | 0.35 | 2.46 | 0.36 | 3.1 | 34.8 | 15.4 | 109 | 30.8 | 13.4 | 0.5 | 0.3 |
| AER22TS-4015 | Till | 7.86 | 28.5 | 5.83 | 1.12 | 5.06 | 0.76 | 4.69 | 0.93 | 2.78 | 0.37 | 2.48 | 0.39 | 2.8 | 35.1 | 15.0 | 108 | 29.2 | 12.9 | 0.5 | 0.2 |
| AER22TS-4016 | Pulp DUP | 7.77 | 30.2 | 5.32 | 1.20 | 5.28 | 0.76 | 4.64 | 0.86 | 2.83 | 0.38 | 2.47 | 0.39 | 2.7 | 34.2 | 14.0 | 106 | 27.9 | 12.2 | 0.5 | 0.2 |
| AER22TS-4017 | Till | 7.66 | 29.0 | 5.39 | 1.19 | 5.22 | 0.76 | 4.71 | 0.97 | 2.72 | 0.42 | 2.67 | 0.43 | 1.9 | 42.3 | 13.6 | 89 | 33.7 | 12.6 | 0.2 | 0.4 |
| AER22TS-4018 | Till | 7.50 | 27.8 | 5.22 | 1.06 | 4.78 | 0.73 | 4.31 | 0.85 | 2.44 | 0.37 | 2.43 | 0.38 | 3.3 | 28.8 | 16.1 | 101 | 37.0 | 13.8 | 0.6 | 0.3 |
| AER22TS-4019 | Till | 7.31 | 27.8 | 5.30 | 1.16 | 4.94 | 0.78 | 4.85 | 0.98 | 2.96 | 0.43 | 2.92 | 0.43 | 0.8 | 27.1 | 14.8 | 107 | 31.3 | 6.6 | 0.1 | 0.4 |
| AER22TS-4020 | Till | 8.93 | 34.4 | 6.83 | 1.54 | 6.76 | 1.04 | 6.13 | 1.27 | 3.48 | 0.50 | 3.34 | 0.54 | 1.0 | 29.0 | 15.6 | 125 | 37.2 | 16.3 | <0.1 | 0.3 |
| AER22TS-4021 | Pulp DUP | 8.67 | 34.1 | 6.35 | 1.39 | 5.82 | 0.86 | 5.30 | 1.11 | 3.27 | 0.43 | 2.85 | 0.43 | 3.0 | 32.5 | 15.8 | 108 | 41.8 | 14.5 | 0.6 | 0.2 |
| AER22TS-4022 | Till | 7.93 | 29.0 | 4.80 | 0.99 | 3.75 | 0.53 | 3.30 | 0.71 | 2.19 | 0.33 | 2.29 | 0.36 | 1.8 | 25.3 | 40.4 | 83 | 6.6 | 30.1 | <0.1 | 0.2 |
| AER22TS-4023 | Till | 7.11 | 27.2 | 4.99 | 1.03 | 4.56 | 0.71 | 4.35 | 0.88 | 2.53 | 0.35 | 2.43 | 0.35 | 2.3 | 28.6 | 15.7 | 101 | 34.4 | 13.2 | 0.5 | 0.2 |
| AER22TS-4024 | Till | 12.35 | 48.3 | 9.64 | 1.98 | 9.55 | 1.32 | 7.89 | 1.44 | 4.48 | 0.63 | 3.89 | 0.63 | 3.2 | 34.7 | 16.2 | 120 | 42.6 | 14.9 | 0.2 | 0.2 |
| AER22TS-4025 | Till | 8.10 | 30.1 | 5.23 | 1.20 | 5.01 | 0.76 | 4.45 | 0.91 | 2.64 | 0.38 | 2.48 | 0.39 | 12.2 | 31.9 | 12.8 | 119 | 43.7 | 13.1 | 0.9 | 0.3 |
| AER22TS-4026 | Till | 5.76 | 21.5 | 4.00 | 0.81 | 3.57 | 0.51 | 3.07 | 0.65 | 1.80 | 0.25 | 1.79 | 0.26 | 2.2 | 38.5 | 10.0 | 55 | 35.6 | 7.6 | 0.5 | 0.4 |
| AER22TS-4027 | Till | 8.49 | 32.0 | 5.71 | 1.15 | 4.92 | 0.66 | 4.03 | 0.76 | 2.10 | 0.32 | 2.27 | 0.34 | 1.6 | 29.0 | 12.8 | 76 | 34.9 | 8.3 | 0.3 | 0.1 |
| AER22TS-4028 | Till | 9.28 | 35.6 | 6.89 | 1.50 | 6.59 | 0.95 | 5.42 | 1.12 | 3.25 | 0.45 | 2.98 | 0.45 | 3.1 | 32.1 | 16.5 | 103 | 44.7 | 14.4 | 0.7 | 0.2 |
| AER22TS-4029 | Till | 9.17 | 35.4 | 6.79 | 1.39 | 6.23 | 0.91 | 5.33 | 1.09 | 3.09 | 0.45 | 3.05 | 0.50 | 2.9 | 32.2 | 15.5 | 112 | 43.5 | 14.2 | 0.6 | 0.2 |
| AER22TS-4030 | Till | 7.15 | 26.5 | 5.13 | 1.01 | 4.23 | 0.62 | 3.89 | 0.80 | 2.48 | 0.38 | 2.55 | 0.39 | 1.9 | 46.8 | 21.9 | 185 | 34.0 | 13.8 | 0.2 | 0.2 |
| AER22TS-4031 | Till | 8.67 | 33.2 | 5.96 | 1.27 | 5.67 | 0.86 | 5.01 | 1.05 | 3.08 | 0.45 | 2.84 | 0.43 | 1.6 | 30.2 | 18.2 | 97 | 35.9 | 14.6 | 0.1 | 0.2 |
| AER22TS-4032 | Till | 9.31 | 35.8 | 6.81 | 1.53 | 6.69 | 0.98 | 6.02 | 1.27 | 3.85 | 0.52 | 3.49 | 0.51 | 0.9 | 23.7 | 11.2 | 69 | 27.8 | 9.6 | <0.1 | 0.2 |
| AER22TS-4033 | Till | 8.27 | 30.4 | 6.16 | 1.28 | 5.74 | 0.87 | 5.47 | 1.11 | 3.24 | 0.45 | 3.06 | 0.50 | 0.7 | 22.9 | 14.1 | 84 | 30.4 | 12.2 | 0.2 | 0.2 |
| AER22TS-4034 | Rock Pulp | 6.66 | 24.8 | 3.97 | 1.08 | 2.90 | 0.38 | 2.22 | 0.41 | 1.20 | 0.16 | 1.02 | 0.16 | 11.6 | 152.9 | 262.6 | 206 | 76.7 | 9.2 | 0.5 | 0.2 |
| AER22TS-4035 | Till | 8.36 | 31.6 | 6.07 | 1.20 | 5.68 | 0.85 | 5.04 | 1.03 | 3.17 | 0.44 | 2.86 | 0.44 | 1.0 | 20.9 | 12.9 | 65 | 27.4 | 10.1 | 0.1 | 0.2 |
| AER22TS-4036 | Till | 8.80 | 33.7 | 6.39 | 1.30 | 6.09 | 0.90 | 5.42 | 1.18 | 3.32 | 0.50 | 3.20 | 0.47 | 1.1 | 21.2 | 12.8 | 64 | 22.2 | 10.8 | 0.1 | 0.2 |
| AER22TS-4037 | Till | 7.66 | 29.8 | 5.91 | 1.15 | 4.87 | 0.72 | 4.53 | 0.90 | 2.68 | 0.37 | 2.39 | 0.39 | 1.2 | 20.3 | 11.4 | 70 | 44.1 | 7.9 | 0.4 | 0.2 |
| AER22TS-4038 | Till | 8.14 | 31.7 | 5.91 | 1.08 | 5.38 | 0.83 | 5.18 | 1.06 | 3.38 | 0.47 | 3.20 | 0.53 | 0.7 | 14.0 | 9.8 | 59 | 19.1 | 8.9 | 0.1 | 0.2 |
| AER22TS-4039 | Till | 8.15 | 30.0 | 5.96 | 1.19 | 5.45 | 0.83 | 5.11 | 1.04 | 3.25 | 0.48 | 3.09 | 0.42 | 0.7 | 18.6 | 12.2 | 73 | 24.2 | 10.2 | 0.2 | 0.1 |
| AER22TS-4040 | Till | 8.37 | 31.2 | 6.47 | 1.12 | 5.81 | 0.84 | 5.40 | 1.03 | 3.38 | 0.50 | 3.07 | 0.50 | 0.9 | 16.8 | 11.7 | 58 | 20.9 | 9.6 | 0.1 | 0.1 |



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AER

Report Date:

March 07, 2023

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CERTIFICATE OF ANALYSIS

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| Method Analyte Unit MDL | | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 |
|----------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Bi | Ag | Au | Hg | Tl | Se | SiO2 | Al2O3 | Fe2O3 | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | MnO | Cr2O3 | Ba | Ni | Sr |
| | | ppm | ppm | ppb | ppm | ppm | ppm | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm |
| | | 0.1 | 0.1 | 0.5 | 0.01 | 0.1 | 0.5 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.002 | 5 | 20 | 2 |
| AER22TS-4011 | Till | 0.2 | 0.3 | 1.3 | 0.06 | 0.3 | 1.5 | 46.92 | 10.84 | 4.82 | 2.05 | 9.40 | 0.37 | 1.87 | 0.51 | 0.14 | 0.04 | 0.009 | 648 | 42 | 169 |
| AER22TS-4012 | Till | 0.2 | 0.3 | 1.3 | 0.05 | 0.2 | 3.2 | 55.82 | 13.91 | 4.99 | 2.86 | 5.45 | 0.55 | 2.71 | 0.64 | 0.19 | 0.07 | 0.012 | 796 | 49 | 181 |
| AER22TS-4013 | Till | 0.2 | 0.6 | 2.3 | 0.07 | 0.6 | 3.0 | 52.88 | 12.42 | 7.73 | 2.80 | 5.48 | 0.36 | 2.22 | 0.57 | 0.19 | 0.05 | 0.010 | 899 | 66 | 159 |
| AER22TS-4014 | Till | 0.2 | 0.4 | 2.5 | 0.11 | 0.3 | 2.0 | 61.76 | 12.49 | 4.90 | 2.11 | 3.75 | 0.52 | 2.47 | 0.64 | 0.22 | 0.04 | 0.012 | 934 | 39 | 163 |
| AER22TS-4015 | Till | 0.2 | 0.4 | 2.1 | 0.10 | 0.2 | 2.1 | 63.39 | 12.31 | 4.66 | 1.96 | 3.31 | 0.49 | 2.48 | 0.63 | 0.23 | 0.03 | 0.013 | 927 | 38 | 158 |
| AER22TS-4016 | Pulp DUP | 0.2 | 0.4 | 2.2 | 0.10 | 0.2 | 2.1 | 63.13 | 12.44 | 4.73 | 1.97 | 3.34 | 0.50 | 2.54 | 0.64 | 0.22 | 0.03 | 0.013 | 934 | 41 | 161 |
| AER22TS-4017 | Till | 0.2 | 0.5 | 3.1 | 0.14 | 0.3 | 0.8 | 60.80 | 11.34 | 4.66 | 1.95 | 4.08 | 0.56 | 2.10 | 0.61 | 0.22 | 0.04 | 0.011 | 1179 | 42 | 138 |
| AER22TS-4018 | Till | 0.2 | 0.3 | 1.7 | 0.07 | 0.3 | 0.8 | 58.26 | 11.85 | 5.23 | 2.41 | 5.57 | 0.55 | 2.11 | 0.60 | 0.17 | 0.06 | 0.011 | 867 | 48 | 134 |
| AER22TS-4019 | Till | 0.2 | 0.1 | 2.0 | 0.15 | 0.2 | 1.1 | 69.93 | 13.10 | 4.01 | 1.16 | 0.45 | 0.79 | 2.34 | 0.73 | 0.16 | 0.03 | 0.014 | 1101 | 38 | 132 |
| AER22TS-4020 | Till | 0.2 | 0.1 | 2.1 | 0.15 | 0.2 | 1.1 | 64.96 | 14.60 | 5.42 | 1.27 | 0.41 | 0.73 | 2.23 | 0.71 | 0.20 | 0.04 | 0.014 | 2688 | 49 | 149 |
| AER22TS-4021 | Pulp DUP | 0.3 | 0.4 | 1.6 | 0.08 | 0.3 | 0.8 | 62.47 | 12.47 | 5.08 | 1.54 | 3.13 | 0.46 | 2.17 | 0.63 | 0.19 | 0.05 | 0.011 | 1070 | 50 | 134 |
| AER22TS-4022 | Till | 0.4 | 0.3 | 1.7 | 0.03 | 0.4 | 2.5 | 56.39 | 15.73 | 9.33 | 1.09 | 0.04 | 0.30 | 2.42 | 0.77 | 0.21 | 0.01 | 0.013 | 1784 | <20 | 237 |
| AER22TS-4023 | Till | 0.2 | 0.2 | 1.7 | 0.07 | 0.3 | 1.0 | 63.23 | 11.41 | 4.73 | 2.24 | 4.17 | 0.58 | 2.20 | 0.62 | 0.18 | 0.06 | 0.010 | 728 | 46 | 137 |
| AER22TS-4024 | Till | 0.3 | 0.3 | 2.3 | 0.12 | 0.3 | 1.0 | 63.97 | 13.74 | 6.07 | 1.33 | 0.80 | 0.57 | 2.04 | 0.66 | 0.13 | 0.04 | 0.012 | 741 | 51 | 113 |
| AER22TS-4025 | Till | 0.2 | 0.3 | 1.7 | 0.05 | 0.3 | 2.5 | 56.18 | 14.05 | 8.10 | 1.97 | 3.15 | 0.44 | 2.37 | 0.64 | 0.19 | 0.09 | 0.011 | 771 | 54 | 144 |
| AER22TS-4026 | Till | 0.1 | 0.4 | 1.3 | 0.07 | 0.2 | 1.3 | 40.57 | 8.74 | 3.69 | 3.46 | 16.39 | 0.38 | 1.89 | 0.44 | 0.13 | 0.05 | 0.007 | 854 | 48 | 186 |
| AER22TS-4027 | Till | 0.2 | 0.2 | 1.1 | 0.05 | 0.2 | 0.6 | 51.81 | 14.45 | 4.49 | 3.08 | 6.81 | 0.52 | 2.64 | 0.56 | 0.16 | 0.04 | 0.012 | 738 | 43 | 190 |
| AER22TS-4028 | Till | 0.3 | 0.4 | 1.8 | 0.09 | 0.3 | 0.8 | 60.38 | 12.14 | 5.21 | 1.62 | 4.37 | 0.47 | 2.15 | 0.63 | 0.18 | 0.06 | 0.011 | 1382 | 51 | 142 |
| AER22TS-4029 | Till | 0.2 | 0.4 | 1.7 | 0.09 | 0.3 | 0.8 | 62.11 | 12.61 | 5.16 | 1.57 | 3.19 | 0.46 | 2.19 | 0.64 | 0.19 | 0.06 | 0.012 | 1083 | 48 | 135 |
| AER22TS-4030 | Till | 0.3 | <0.1 | 1.2 | 0.04 | 0.4 | 1.5 | 66.53 | 13.74 | 5.70 | 1.13 | 0.30 | 0.56 | 2.08 | 0.70 | 0.24 | 0.08 | 0.012 | 607 | 43 | 106 |
| AER22TS-4031 | Till | 0.3 | 0.1 | 1.5 | 0.07 | 0.2 | 0.5 | 65.20 | 13.65 | 5.38 | 1.33 | 0.91 | 0.51 | 2.14 | 0.70 | 0.19 | 0.05 | 0.012 | 992 | 47 | 136 |
| AER22TS-4032 | Till | 0.2 | 0.1 | 0.9 | 0.04 | 0.2 | 0.7 | 70.22 | 11.78 | 4.75 | 1.07 | 0.59 | 0.68 | 1.95 | 0.74 | 0.15 | 0.03 | 0.010 | 678 | 37 | 113 |
| AER22TS-4033 | Till | 0.2 | 0.1 | 1.5 | 0.05 | 0.2 | 0.5 | 65.59 | 11.91 | 5.47 | 1.85 | 1.90 | 0.73 | 2.13 | 0.73 | 0.18 | 0.07 | 0.009 | 584 | 41 | 141 |
| AER22TS-4034 | Rock Pulp | 0.1 | 0.1 | 35.1 | 0.02 | <0.1 | <0.5 | 71.74 | 11.99 | 4.01 | 1.70 | 3.32 | 3.42 | 1.46 | 0.37 | 0.13 | 0.06 | 0.016 | 462 | 89 | 399 |
| AER22TS-4035 | Till | 0.2 | 0.1 | 1.2 | 0.05 | 0.2 | 0.5 | 67.97 | 10.53 | 4.56 | 1.69 | 2.67 | 0.75 | 1.86 | 0.69 | 0.16 | 0.07 | 0.010 | 581 | 34 | 145 |
| AER22TS-4036 | Till | 0.2 | <0.1 | 1.2 | 0.05 | 0.2 | 0.6 | 70.89 | 11.20 | 5.03 | 1.01 | 0.69 | 0.70 | 1.88 | 0.69 | 0.19 | 0.04 | 0.010 | 583 | 28 | 115 |
| AER22TS-4037 | Till | 0.2 | <0.1 | 0.8 | 0.04 | 0.2 | 0.7 | 63.98 | 11.46 | 4.33 | 2.02 | 3.93 | 0.67 | 2.05 | 0.64 | 0.16 | 0.12 | 0.010 | 641 | 52 | 148 |
| AER22TS-4038 | Till | 0.1 | <0.1 | 0.9 | 0.04 | 0.1 | <0.5 | 74.16 | 7.82 | 3.73 | 1.53 | 2.45 | 0.79 | 1.63 | 0.69 | 0.16 | 0.05 | 0.007 | 514 | 24 | 106 |
| AER22TS-4039 | Till | 0.2 | 0.1 | 0.9 | 0.04 | 0.2 | <0.5 | 69.76 | 10.54 | 4.58 | 1.57 | 1.85 | 0.74 | 1.97 | 0.70 | 0.17 | 0.06 | 0.009 | 579 | 32 | 113 |
| AER22TS-4040 | Till | 0.1 | <0.1 | 1.2 | 0.05 | 0.2 | <0.5 | 71.98 | 8.76 | 4.13 | 1.58 | 2.40 | 0.79 | 1.67 | 0.67 | 0.16 | 0.04 | 0.008 | 510 | 27 | 113 |



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March 07, 2023

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CERTIFICATE OF ANALYSIS

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| Method | | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | TC000 | TC005 | TC005 | TC006 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|--------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| Analyte | | Zr | Y | Nb | Sc | LOI | Sum | TOT/C | C/ORG | C/GRA | CO2 | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As |
| Unit | | ppm | ppm | ppm | ppm | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppb | ppm | ppm | ppm | % | ppm |
| MDL | | 5 | 3 | 5 | 1 | -5.1 | 0.01 | 0.02 | 0.02 | 0.02 | 0.08 | 0.01 | 0.01 | 0.01 | 0.1 | 2 | 0.1 | 0.1 | 1 | 0.01 | 0.1 |
| AER22TS-4011 | Till | 164 | 21 | 11 | 10 | 15.3 | 92.37 | 2.67 | 1.45 | <0.02 | 4.43 | 13.96 | 26.93 | 11.01 | 106.4 | 309 | 32.0 | 11.6 | 249 | 2.32 | 14.7 |
| AER22TS-4012 | Till | 166 | 24 | 12 | 13 | 12.6 | 99.90 | 2.14 | 1.01 | <0.02 | 4.10 | 2.81 | 31.94 | 14.35 | 99.1 | 244 | 43.4 | 17.5 | 515 | 2.50 | 10.2 |
| AER22TS-4013 | Till | 171 | 26 | 15 | 12 | 15.0 | 99.87 | 3.23 | 1.89 | 0.02 | 4.84 | 28.13 | 45.56 | 21.13 | 226.9 | 606 | 55.5 | 24.5 | 368 | 4.18 | 76.4 |
| AER22TS-4014 | Till | 223 | 26 | 13 | 12 | 10.9 | 99.92 | 1.91 | 1.23 | 0.03 | 2.38 | 3.87 | 34.75 | 16.61 | 116.2 | 410 | 30.9 | 9.5 | 238 | 2.49 | 14.8 |
| AER22TS-4015 | Till | 214 | 27 | 12 | 12 | 10.3 | 99.92 | 1.84 | 1.21 | 0.03 | 2.18 | 3.71 | 36.42 | 17.25 | 113.7 | 397 | 29.9 | 8.9 | 220 | 2.45 | 14.6 |
| AER22TS-4016 | Pulp DUP | 208 | 27 | 13 | 12 | 10.2 | 99.92 | 1.82 | 1.20 | 0.03 | 2.16 | 3.38 | 35.96 | 16.72 | 114.8 | 413 | 29.8 | 8.5 | 220 | 2.44 | 13.9 |
| AER22TS-4017 | Till | 259 | 27 | 16 | 11 | 13.4 | 99.93 | 3.14 | 2.43 | 0.02 | 2.50 | 2.03 | 42.14 | 13.79 | 87.6 | 448 | 33.3 | 9.5 | 281 | 2.47 | 11.6 |
| AER22TS-4018 | Till | 247 | 24 | 15 | 11 | 12.9 | 99.92 | 2.40 | 1.35 | <0.02 | 3.78 | 3.49 | 28.36 | 15.93 | 100.0 | 254 | 36.2 | 14.6 | 430 | 2.75 | 12.9 |
| AER22TS-4019 | Till | 270 | 28 | 12 | 13 | 7.0 | 99.95 | 0.56 | 0.52 | 0.03 | <0.08 | 0.99 | 27.16 | 15.47 | 106.3 | 112 | 32.2 | 11.5 | 235 | 2.10 | 6.3 |
| AER22TS-4020 | Till | 276 | 34 | 13 | 14 | 9.0 | 99.93 | 0.79 | 0.75 | 0.03 | <0.08 | 1.23 | 28.49 | 15.49 | 124.9 | 118 | 37.5 | 16.0 | 299 | 3.03 | 15.7 |
| AER22TS-4021 | Pulp DUP | 240 | 31 | 18 | 12 | 11.6 | 99.94 | 1.87 | 1.31 | 0.02 | 1.94 | 3.27 | 31.19 | 15.48 | 102.6 | 381 | 40.3 | 12.7 | 398 | 2.68 | 13.3 |
| AER22TS-4022 | Till | 191 | 19 | 22 | 16 | 13.4 | 99.94 | 0.89 | 0.85 | 0.03 | <0.08 | 2.14 | 26.35 | 40.33 | 83.5 | 262 | 6.4 | 4.0 | 51 | 4.91 | 30.1 |
| AER22TS-4023 | Till | 256 | 25 | 13 | 10 | 10.3 | 99.91 | 1.52 | 0.73 | <0.02 | 2.82 | 2.44 | 27.35 | 15.47 | 101.5 | 178 | 33.4 | 12.5 | 438 | 2.45 | 12.4 |
| AER22TS-4024 | Till | 289 | 44 | 14 | 14 | 10.4 | 99.93 | 1.21 | 1.18 | <0.02 | <0.08 | 3.52 | 34.06 | 16.10 | 117.6 | 294 | 41.0 | 11.4 | 311 | 3.40 | 14.1 |
| AER22TS-4025 | Till | 192 | 25 | 16 | 13 | 12.6 | 99.92 | 1.87 | 1.30 | <0.02 | 2.02 | 12.31 | 30.19 | 12.60 | 116.4 | 337 | 40.9 | 10.7 | 606 | 4.46 | 12.0 |
| AER22TS-4026 | Till | 167 | 17 | 12 | 9 | 24.0 | 99.90 | 6.47 | 2.96 | <0.02 | 12.80 | 2.25 | 36.51 | 10.17 | 55.4 | 388 | 35.5 | 8.6 | 327 | 1.96 | 6.9 |
| AER22TS-4027 | Till | 176 | 22 | 12 | 13 | 15.2 | 99.90 | 2.64 | 1.15 | <0.02 | 5.38 | 1.53 | 26.30 | 12.21 | 70.9 | 160 | 30.9 | 9.9 | 243 | 2.18 | 7.1 |
| AER22TS-4028 | Till | 240 | 35 | 12 | 12 | 12.5 | 99.93 | 2.20 | 1.41 | <0.02 | 2.83 | 3.23 | 30.82 | 15.59 | 100.5 | 387 | 41.8 | 12.6 | 401 | 2.78 | 13.5 |
| AER22TS-4029 | Till | 241 | 32 | 15 | 12 | 11.6 | 99.94 | 1.79 | 1.25 | <0.02 | 1.90 | 3.19 | 30.60 | 15.80 | 104.1 | 385 | 39.8 | 12.7 | 397 | 2.67 | 13.2 |
| AER22TS-4030 | Till | 309 | 21 | 7 | 16 | 8.7 | 99.93 | 0.67 | 0.65 | 0.02 | <0.08 | 2.19 | 44.14 | 20.14 | 177.2 | 45 | 31.8 | 35.8 | 581 | 2.89 | 12.6 |
| AER22TS-4031 | Till | 268 | 27 | 13 | 13 | 9.7 | 99.92 | 0.81 | 0.77 | 0.02 | <0.08 | 1.84 | 30.00 | 18.31 | 96.9 | 132 | 35.7 | 12.0 | 352 | 2.83 | 13.7 |
| AER22TS-4032 | Till | 344 | 32 | 9 | 11 | 7.9 | 99.96 | 0.80 | 0.77 | 0.02 | <0.08 | 1.05 | 24.43 | 11.74 | 71.9 | 107 | 28.3 | 6.0 | 179 | 2.60 | 9.4 |
| AER22TS-4033 | Till | 356 | 28 | 14 | 11 | 9.2 | 99.94 | 1.28 | 0.86 | <0.02 | 1.48 | 0.70 | 22.62 | 14.42 | 81.2 | 117 | 29.9 | 13.2 | 538 | 2.98 | 11.5 |
| AER22TS-4034 | Rock Pulp | 164 | 11 | 17 | 9 | 1.5 | 99.88 | 0.07 | 0.05 | <0.02 | 0.09 | 11.74 | 151.61 | 260.18 | 206.0 | 113 | 76.0 | 46.8 | 281 | 1.62 | 8.8 |
| AER22TS-4035 | Till | 385 | 27 | 11 | 10 | 8.9 | 99.95 | 1.26 | 0.75 | <0.02 | 1.78 | 1.03 | 20.05 | 12.58 | 64.7 | 103 | 26.8 | 11.8 | 494 | 2.39 | 9.4 |
| AER22TS-4036 | Till | 407 | 30 | 10 | 10 | 7.5 | 99.95 | 0.59 | 0.57 | 0.02 | <0.08 | 1.26 | 20.93 | 12.79 | 65.4 | 82 | 21.9 | 7.7 | 250 | 2.66 | 10.4 |
| AER22TS-4037 | Till | 352 | 24 | 13 | 10 | 10.4 | 99.93 | 2.59 | 1.72 | 0.04 | 3.04 | 1.25 | 19.47 | 11.36 | 67.1 | 91 | 40.4 | 20.4 | 874 | 2.13 | 7.2 |
| AER22TS-4038 | Till | 620 | 29 | 11 | 7 | 6.8 | 99.97 | 1.11 | 0.54 | <0.02 | 2.05 | 0.74 | 14.39 | 10.18 | 58.6 | 77 | 18.7 | 8.8 | 312 | 2.10 | 8.4 |
| AER22TS-4039 | Till | 433 | 29 | 14 | 10 | 7.9 | 99.94 | 1.09 | 0.71 | <0.02 | 1.33 | 0.81 | 17.87 | 12.65 | 70.4 | 109 | 23.1 | 11.0 | 399 | 2.38 | 9.5 |
| AER22TS-4040 | Till | 550 | 27 | 8 | 8 | 7.6 | 99.96 | 1.04 | 0.51 | <0.02 | 1.88 | 0.92 | 16.11 | 11.84 | 58.8 | 77 | 19.9 | 8.0 | 295 | 2.32 | 9.0 |



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Project: AER
Report Date: March 07, 2023

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CERTIFICATE OF ANALYSIS

VAN22003159.1

| | Method | Analyte | Unit | MDL | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | | |
|--------------|-----------|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|------|-----|
| | | | | | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W |
| | | | | | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm |
| | | | | | 0.1 | 0.2 | 0.1 | 0.5 | 0.01 | 0.02 | 0.02 | 1 | 0.01 | 0.001 | 0.5 | 0.5 | 0.01 | 0.5 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 |
| AER22TS-4011 | Till | 4.1 | 2.0 | 4.9 | 87.4 | 1.00 | 0.95 | 0.20 | 30 | 5.54 | 0.050 | 10.3 | 15.3 | 0.75 | 68.3 | 0.002 | 9 | 0.86 | 0.039 | 0.15 | <0.1 | | | |
| AER22TS-4012 | Till | 2.6 | 1.9 | 6.9 | 93.0 | 0.67 | 0.69 | 0.24 | 40 | 3.48 | 0.070 | 16.2 | 25.5 | 1.21 | 269.4 | 0.005 | 12 | 1.26 | 0.043 | 0.26 | <0.1 | | | |
| AER22TS-4013 | Till | 6.2 | 3.1 | 6.9 | 86.8 | 3.63 | 3.32 | 0.27 | 52 | 3.50 | 0.074 | 17.6 | 19.3 | 1.17 | 410.4 | 0.003 | 15 | 1.02 | 0.016 | 0.20 | <0.1 | | | |
| AER22TS-4014 | Till | 2.4 | 2.8 | 8.0 | 84.9 | 0.62 | 0.69 | 0.31 | 36 | 2.36 | 0.093 | 17.8 | 19.6 | 0.83 | 355.3 | 0.005 | 18 | 0.99 | 0.017 | 0.22 | <0.1 | | | |
| AER22TS-4015 | Till | 2.3 | 2.8 | 8.7 | 84.6 | 0.63 | 0.68 | 0.29 | 37 | 2.14 | 0.093 | 19.1 | 20.8 | 0.77 | 382.9 | 0.005 | 17 | 1.03 | 0.018 | 0.23 | <0.1 | | | |
| AER22TS-4016 | Pulp DUP | 2.3 | 3.0 | 8.1 | 87.4 | 0.55 | 0.64 | 0.28 | 36 | 2.14 | 0.094 | 18.6 | 19.9 | 0.77 | 380.7 | 0.004 | 16 | 1.04 | 0.017 | 0.23 | <0.1 | | | |
| AER22TS-4017 | Till | 1.2 | 2.6 | 5.7 | 60.9 | 0.18 | 0.59 | 0.21 | 43 | 2.63 | 0.089 | 17.6 | 21.5 | 0.80 | 669.5 | 0.005 | 15 | 1.21 | 0.012 | 0.19 | <0.1 | | | |
| AER22TS-4018 | Till | 1.6 | 1.5 | 7.3 | 57.4 | 0.56 | 0.53 | 0.23 | 39 | 3.59 | 0.071 | 18.5 | 21.1 | 1.06 | 379.2 | 0.006 | 12 | 1.20 | 0.009 | 0.18 | <0.1 | | | |
| AER22TS-4019 | Till | 1.7 | 2.0 | 7.2 | 53.0 | 0.14 | 0.80 | 0.21 | 36 | 0.22 | 0.063 | 18.3 | 23.6 | 0.38 | 327.0 | 0.006 | 6 | 1.14 | 0.008 | 0.11 | <0.1 | | | |
| AER22TS-4020 | Till | 2.6 | 2.2 | 7.8 | 70.8 | 0.09 | 0.62 | 0.24 | 45 | 0.20 | 0.076 | 21.1 | 27.6 | 0.41 | 1919.3 | 0.006 | 7 | 1.52 | 0.032 | 0.14 | <0.1 | | | |
| AER22TS-4021 | Pulp DUP | 1.6 | 1.7 | 7.6 | 68.2 | 0.54 | 0.43 | 0.25 | 38 | 2.11 | 0.076 | 22.1 | 21.1 | 0.55 | 581.3 | 0.003 | 13 | 1.25 | 0.009 | 0.21 | <0.1 | | | |
| AER22TS-4022 | Till | 1.6 | 1.6 | 7.1 | 172.5 | <0.01 | 0.55 | 0.43 | 50 | 0.02 | 0.081 | 18.5 | 19.6 | 0.18 | 284.3 | 0.002 | 7 | 1.23 | 0.011 | 0.29 | <0.1 | | | |
| AER22TS-4023 | Till | 1.9 | 1.5 | 7.1 | 61.5 | 0.48 | 0.44 | 0.23 | 31 | 2.76 | 0.075 | 16.3 | 17.7 | 0.96 | 224.7 | 0.005 | 12 | 0.99 | 0.009 | 0.19 | <0.1 | | | |
| AER22TS-4024 | Till | 2.4 | 2.3 | 9.9 | 35.0 | 0.17 | 0.51 | 0.29 | 51 | 0.42 | 0.045 | 33.4 | 27.9 | 0.44 | 276.9 | 0.004 | 7 | 1.70 | 0.007 | 0.17 | <0.1 | | | |
| AER22TS-4025 | Till | 4.1 | 1.2 | 6.7 | 73.3 | 0.80 | 0.48 | 0.24 | 46 | 2.05 | 0.072 | 16.9 | 23.7 | 0.77 | 298.7 | 0.003 | 16 | 1.52 | 0.027 | 0.25 | <0.1 | | | |
| AER22TS-4026 | Till | 1.1 | 1.6 | 4.1 | 126.3 | 0.46 | 0.45 | 0.14 | 28 | 10.85 | 0.053 | 10.7 | 18.6 | 1.73 | 561.1 | 0.005 | 16 | 1.09 | 0.013 | 0.18 | <0.1 | | | |
| AER22TS-4027 | Till | 1.7 | 1.1 | 8.2 | 98.1 | 0.31 | 0.35 | 0.22 | 48 | 4.39 | 0.060 | 20.0 | 29.0 | 1.36 | 276.0 | 0.006 | 17 | 1.68 | 0.039 | 0.29 | <0.1 | | | |
| AER22TS-4028 | Till | 1.6 | 1.8 | 7.6 | 73.9 | 0.61 | 0.49 | 0.25 | 37 | 2.96 | 0.072 | 23.8 | 21.9 | 0.59 | 897.4 | 0.004 | 13 | 1.20 | 0.009 | 0.20 | <0.1 | | | |
| AER22TS-4029 | Till | 1.6 | 1.6 | 7.6 | 66.6 | 0.55 | 0.42 | 0.26 | 38 | 2.11 | 0.076 | 22.9 | 20.6 | 0.55 | 576.8 | 0.003 | 12 | 1.24 | 0.009 | 0.21 | <0.1 | | | |
| AER22TS-4030 | Till | 5.4 | 1.2 | 11.5 | 29.4 | 0.19 | 0.41 | 0.28 | 32 | 0.10 | 0.093 | 13.5 | 24.5 | 0.27 | 113.3 | 0.004 | 12 | 1.29 | 0.021 | 0.17 | <0.1 | | | |
| AER22TS-4031 | Till | 1.5 | 1.5 | 7.6 | 62.4 | 0.13 | 0.47 | 0.28 | 42 | 0.54 | 0.075 | 19.5 | 22.0 | 0.42 | 437.1 | 0.003 | 14 | 1.41 | 0.009 | 0.19 | <0.1 | | | |
| AER22TS-4032 | Till | 1.3 | 2.5 | 6.9 | 32.7 | 0.05 | 0.31 | 0.21 | 33 | 0.29 | 0.063 | 23.3 | 19.6 | 0.34 | 225.3 | 0.006 | 10 | 1.19 | 0.008 | 0.14 | <0.1 | | | |
| AER22TS-4033 | Till | 1.0 | 1.0 | 6.4 | 64.8 | 0.16 | 0.30 | 0.19 | 30 | 1.21 | 0.073 | 20.2 | 18.0 | 0.80 | 151.0 | 0.006 | 20 | 1.09 | 0.011 | 0.19 | <0.1 | | | |
| AER22TS-4034 | Rock Pulp | 0.4 | 35.6 | 3.0 | 34.0 | 0.49 | 0.19 | 0.14 | 25 | 0.60 | 0.054 | 24.7 | 31.0 | 0.48 | 57.6 | 0.077 | 2 | 0.83 | 0.090 | 0.11 | <0.1 | | | |
| AER22TS-4035 | Till | 1.1 | 1.4 | 6.0 | 62.6 | 0.14 | 0.29 | 0.16 | 29 | 1.67 | 0.066 | 19.8 | 17.8 | 0.73 | 155.6 | 0.006 | 15 | 1.05 | 0.013 | 0.14 | <0.1 | | | |
| AER22TS-4036 | Till | 1.1 | 1.0 | 7.3 | 33.4 | 0.11 | 0.33 | 0.20 | 29 | 0.32 | 0.077 | 23.2 | 17.8 | 0.31 | 146.3 | 0.007 | 8 | 1.06 | 0.008 | 0.14 | <0.1 | | | |
| AER22TS-4037 | Till | 1.2 | 0.9 | 6.0 | 65.2 | 0.38 | 0.32 | 0.17 | 30 | 2.47 | 0.060 | 17.1 | 19.2 | 0.87 | 223.6 | 0.008 | 13 | 1.11 | 0.009 | 0.20 | <0.1 | | | |
| AER22TS-4038 | Till | 0.9 | 1.3 | 6.2 | 27.4 | 0.13 | 0.24 | 0.13 | 20 | 1.56 | 0.064 | 19.7 | 11.7 | 0.73 | 116.9 | 0.009 | 8 | 0.68 | 0.007 | 0.11 | <0.1 | | | |
| AER22TS-4039 | Till | 1.0 | 1.0 | 6.6 | 35.5 | 0.17 | 0.26 | 0.17 | 26 | 1.14 | 0.067 | 20.6 | 16.4 | 0.65 | 147.0 | 0.007 | 12 | 0.94 | 0.008 | 0.15 | <0.1 | | | |
| AER22TS-4040 | Till | 0.8 | 1.2 | 6.7 | 30.6 | 0.11 | 0.27 | 0.15 | 26 | 1.48 | 0.065 | 20.8 | 15.1 | 0.73 | 115.3 | 0.009 | 9 | 0.89 | 0.008 | 0.11 | <0.1 | | | |



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AER

Report Date:

March 07, 2023

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CERTIFICATE OF ANALYSIS

VAN22003159.1

| Method Analyte Unit MDL | | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|----------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Sc | Ti | S | Hg | Se | Te | Ga | Cs | Ge | Hf | Nb | Rb | Sn | Ta | Zr | Y | Ce | In | Re | Be |
| | | ppm | ppm | % | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppb | ppm |
| | | 0.1 | 0.02 | 0.02 | 5 | 0.1 | 0.02 | 0.1 | 0.02 | 0.1 | 0.02 | 0.02 | 0.1 | 0.1 | 0.05 | 0.1 | 0.01 | 0.1 | 0.02 | 1 | 0.1 |
| AER22TS-4011 | Till | 3.7 | 0.28 | 1.95 | 48 | 1.3 | 0.09 | 3.1 | 1.28 | <0.1 | 0.17 | 0.18 | 15.0 | 0.5 | <0.05 | 8.1 | 10.91 | 22.1 | 0.03 | 5 | 0.6 |
| AER22TS-4012 | Till | 4.8 | 0.25 | 0.38 | 49 | 3.0 | 0.07 | 4.1 | 1.62 | <0.1 | 0.25 | 0.15 | 20.8 | 0.5 | <0.05 | 11.9 | 13.66 | 35.1 | 0.03 | 10 | 0.7 |
| AER22TS-4013 | Till | 5.1 | 0.75 | 0.08 | 73 | 2.9 | 0.12 | 3.7 | 1.81 | <0.1 | 0.20 | 0.25 | 21.6 | 0.7 | <0.05 | 10.5 | 17.18 | 36.7 | 0.04 | 7 | 0.8 |
| AER22TS-4014 | Till | 4.9 | 0.30 | 0.43 | 120 | 2.0 | 0.07 | 3.4 | 1.57 | <0.1 | 0.20 | 0.22 | 20.0 | 0.8 | <0.05 | 10.6 | 15.99 | 35.0 | 0.04 | 6 | 0.7 |
| AER22TS-4015 | Till | 5.4 | 0.28 | 0.37 | 108 | 2.3 | 0.10 | 3.4 | 1.77 | <0.1 | 0.27 | 0.22 | 20.3 | 0.7 | <0.05 | 11.7 | 16.50 | 36.7 | 0.04 | 7 | 0.4 |
| AER22TS-4016 | Pulp DUP | 5.3 | 0.25 | 0.38 | 119 | 2.1 | 0.08 | 3.4 | 1.59 | <0.1 | 0.20 | 0.19 | 19.6 | 0.6 | <0.05 | 10.1 | 16.57 | 36.9 | 0.04 | 9 | 0.7 |
| AER22TS-4017 | Till | 4.9 | 0.26 | 0.07 | 129 | 0.8 | 0.07 | 3.9 | 1.17 | <0.1 | 0.16 | 0.39 | 18.6 | 0.5 | <0.05 | 10.2 | 17.17 | 34.7 | 0.04 | 1 | 0.9 |
| AER22TS-4018 | Till | 4.5 | 0.31 | 0.04 | 66 | 0.8 | 0.06 | 4.0 | 1.54 | <0.1 | 0.19 | 0.21 | 19.5 | 0.6 | <0.05 | 10.1 | 14.80 | 39.9 | 0.03 | 2 | 0.8 |
| AER22TS-4019 | Till | 5.3 | 0.18 | <0.02 | 154 | 1.0 | 0.05 | 3.9 | 2.10 | <0.1 | 0.12 | 0.14 | 15.8 | 0.5 | <0.05 | 6.4 | 16.76 | 38.2 | 0.03 | <1 | 0.8 |
| AER22TS-4020 | Till | 6.4 | 0.22 | 0.05 | 142 | 1.2 | 0.07 | 4.9 | 1.81 | <0.1 | 0.14 | 0.19 | 18.7 | 0.7 | <0.05 | 8.2 | 24.27 | 45.4 | 0.04 | 2 | 1.3 |
| AER22TS-4021 | Pulp DUP | 5.0 | 0.24 | 0.05 | 82 | 0.8 | 0.07 | 4.2 | 1.46 | <0.1 | 0.18 | 0.20 | 20.8 | 0.6 | <0.05 | 10.1 | 21.96 | 43.9 | 0.04 | 1 | 0.9 |
| AER22TS-4022 | Till | 6.9 | 0.40 | 0.63 | 23 | 2.5 | 0.21 | 4.7 | 1.93 | <0.1 | 0.15 | 0.12 | 24.5 | 0.9 | <0.05 | 7.8 | 8.75 | 36.9 | 0.09 | <1 | 0.5 |
| AER22TS-4023 | Till | 3.9 | 0.28 | 0.53 | 72 | 0.9 | 0.07 | 3.4 | 1.40 | <0.1 | 0.21 | 0.15 | 18.1 | 0.5 | <0.05 | 10.9 | 14.35 | 37.5 | 0.03 | 2 | 0.7 |
| AER22TS-4024 | Till | 7.5 | 0.29 | <0.02 | 119 | 0.8 | 0.08 | 5.6 | 1.57 | <0.1 | 0.19 | 0.26 | 20.9 | 0.8 | <0.05 | 11.8 | 31.95 | 65.5 | 0.04 | <1 | 1.4 |
| AER22TS-4025 | Till | 5.2 | 0.25 | 0.17 | 48 | 2.3 | 0.07 | 5.0 | 1.52 | <0.1 | 0.14 | 0.14 | 22.7 | 0.7 | <0.05 | 7.8 | 15.59 | 33.7 | 0.04 | 4 | 1.2 |
| AER22TS-4026 | Till | 3.5 | 0.20 | 0.20 | 70 | 1.1 | 0.04 | 3.4 | 0.81 | <0.1 | 0.13 | 0.46 | 16.3 | 0.4 | <0.05 | 7.4 | 9.77 | 23.6 | 0.02 | 2 | 0.7 |
| AER22TS-4027 | Till | 5.3 | 0.18 | 0.07 | 40 | 0.6 | 0.06 | 5.3 | 1.49 | <0.1 | 0.25 | 0.19 | 23.7 | 0.7 | <0.05 | 12.9 | 13.45 | 40.0 | 0.03 | 4 | 1.0 |
| AER22TS-4028 | Till | 4.9 | 0.25 | 0.07 | 75 | 0.7 | 0.07 | 4.0 | 1.45 | <0.1 | 0.19 | 0.21 | 20.9 | 0.6 | <0.05 | 10.8 | 24.74 | 45.3 | 0.04 | 1 | 0.9 |
| AER22TS-4029 | Till | 5.0 | 0.24 | 0.05 | 87 | 0.7 | 0.07 | 4.1 | 1.43 | <0.1 | 0.17 | 0.16 | 20.3 | 0.6 | <0.05 | 9.6 | 21.59 | 44.7 | 0.04 | 2 | 0.9 |
| AER22TS-4030 | Till | 8.5 | 0.32 | <0.02 | 38 | 1.4 | 0.09 | 4.0 | 1.54 | <0.1 | 0.14 | 0.15 | 20.7 | 0.9 | <0.05 | 7.9 | 8.75 | 29.7 | 0.05 | 1 | 0.8 |
| AER22TS-4031 | Till | 5.0 | 0.22 | <0.02 | 78 | 0.6 | 0.09 | 4.4 | 1.68 | <0.1 | 0.14 | 0.07 | 19.5 | 0.8 | <0.05 | 8.4 | 16.41 | 40.8 | 0.04 | 2 | 1.0 |
| AER22TS-4032 | Till | 4.4 | 0.19 | <0.02 | 51 | 0.5 | 0.04 | 4.0 | 1.46 | <0.1 | 0.17 | 0.13 | 15.0 | 0.6 | <0.05 | 10.3 | 19.19 | 47.5 | 0.03 | 2 | 1.0 |
| AER22TS-4033 | Till | 4.6 | 0.15 | 0.04 | 43 | 0.4 | 0.05 | 3.9 | 1.30 | <0.1 | 0.18 | 0.08 | 17.6 | 0.6 | <0.05 | 10.0 | 15.48 | 43.1 | 0.03 | 2 | 0.8 |
| AER22TS-4034 | Rock Pulp | 3.1 | 0.08 | 0.04 | 13 | 0.2 | <0.02 | 2.8 | 1.10 | <0.1 | 0.19 | 0.42 | 7.1 | 2.4 | <0.05 | 6.5 | 5.93 | 42.8 | 0.04 | <1 | 0.2 |
| AER22TS-4035 | Till | 3.8 | 0.17 | 0.05 | 49 | 0.5 | 0.04 | 3.6 | 1.09 | <0.1 | 0.16 | 0.10 | 13.0 | 0.6 | <0.05 | 9.3 | 14.68 | 41.0 | 0.03 | 1 | 0.7 |
| AER22TS-4036 | Till | 3.9 | 0.18 | <0.02 | 50 | 0.5 | 0.05 | 3.5 | 1.26 | <0.1 | 0.16 | 0.09 | 15.7 | 0.8 | <0.05 | 9.3 | 16.71 | 48.0 | 0.03 | <1 | 0.9 |
| AER22TS-4037 | Till | 3.9 | 0.16 | 0.38 | 33 | 0.5 | 0.04 | 3.9 | 1.15 | <0.1 | 0.21 | 0.10 | 17.4 | 0.7 | <0.05 | 11.2 | 12.44 | 37.0 | 0.03 | 4 | 0.7 |
| AER22TS-4038 | Till | 2.6 | 0.12 | <0.02 | 45 | 0.4 | 0.04 | 2.3 | 0.81 | <0.1 | 0.18 | 0.09 | 10.8 | 0.4 | <0.05 | 9.6 | 12.14 | 43.2 | <0.02 | <1 | 0.5 |
| AER22TS-4039 | Till | 3.6 | 0.17 | <0.02 | 48 | 0.4 | 0.04 | 3.3 | 1.18 | <0.1 | 0.20 | 0.09 | 15.2 | 0.7 | <0.05 | 10.3 | 13.90 | 44.6 | 0.03 | <1 | 0.7 |
| AER22TS-4040 | Till | 3.1 | 0.17 | <0.02 | 46 | 0.3 | 0.03 | 2.9 | 1.07 | <0.1 | 0.20 | 0.12 | 11.8 | 0.5 | <0.05 | 11.3 | 12.55 | 43.2 | 0.02 | <1 | 0.6 |



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CERTIFICATE OF ANALYSIS

VAN22003159.1

| Method Analyte Unit MDL | | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|----------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Li | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu | Pd | Pt |
| | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppb | ppb |
| | | 0.1 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 10 | 2 |
| AER22TS-4011 | Till | 11.7 | 2.82 | 11.85 | 2.62 | 0.57 | 2.61 | 0.36 | 2.03 | 0.36 | 0.93 | 0.11 | 0.67 | 0.09 | <10 | <2 |
| AER22TS-4012 | Till | 22.1 | 4.33 | 17.31 | 3.68 | 0.78 | 3.47 | 0.47 | 2.66 | 0.47 | 1.25 | 0.16 | 0.94 | 0.13 | <10 | <2 |
| AER22TS-4013 | Till | 11.1 | 4.76 | 19.17 | 4.11 | 0.87 | 4.00 | 0.55 | 3.11 | 0.57 | 1.47 | 0.18 | 1.07 | 0.15 | <10 | <2 |
| AER22TS-4014 | Till | 15.3 | 4.87 | 18.83 | 4.26 | 1.05 | 3.98 | 0.59 | 3.00 | 0.66 | 1.51 | 0.19 | 1.20 | 0.17 | <10 | <2 |
| AER22TS-4015 | Till | 15.7 | 5.10 | 20.36 | 4.51 | 1.01 | 4.08 | 0.61 | 3.52 | 0.64 | 1.63 | 0.22 | 1.31 | 0.17 | <10 | <2 |
| AER22TS-4016 | Pulp DUP | 14.8 | 5.04 | 20.13 | 4.78 | 1.01 | 4.23 | 0.62 | 3.32 | 0.63 | 1.68 | 0.22 | 1.31 | 0.17 | <10 | <2 |
| AER22TS-4017 | Till | 14.3 | 4.93 | 19.05 | 4.09 | 0.81 | 3.90 | 0.53 | 3.03 | 0.56 | 1.49 | 0.19 | 1.13 | 0.16 | <10 | <2 |
| AER22TS-4018 | Till | 15.8 | 4.93 | 18.59 | 3.87 | 0.76 | 3.56 | 0.48 | 2.72 | 0.49 | 1.29 | 0.16 | 0.98 | 0.14 | <10 | <2 |
| AER22TS-4019 | Till | 16.1 | 4.93 | 19.28 | 4.13 | 0.88 | 3.96 | 0.55 | 3.10 | 0.57 | 1.52 | 0.20 | 1.24 | 0.18 | <10 | <2 |
| AER22TS-4020 | Till | 19.5 | 6.18 | 24.18 | 5.29 | 1.11 | 5.47 | 0.78 | 4.52 | 0.84 | 2.23 | 0.28 | 1.73 | 0.25 | <10 | <2 |
| AER22TS-4021 | Pulp DUP | 14.3 | 5.87 | 23.30 | 4.88 | 1.00 | 4.73 | 0.64 | 3.69 | 0.67 | 1.80 | 0.23 | 1.40 | 0.20 | <10 | <2 |
| AER22TS-4022 | Till | 5.2 | 4.53 | 17.63 | 3.45 | 0.64 | 2.56 | 0.32 | 1.73 | 0.31 | 0.84 | 0.12 | 0.74 | 0.11 | <10 | <2 |
| AER22TS-4023 | Till | 13.6 | 4.46 | 17.27 | 3.64 | 0.75 | 3.44 | 0.46 | 2.65 | 0.48 | 1.28 | 0.16 | 0.97 | 0.14 | <10 | <2 |
| AER22TS-4024 | Till | 15.6 | 9.46 | 38.87 | 8.07 | 1.66 | 7.72 | 1.02 | 5.76 | 1.07 | 2.93 | 0.38 | 2.33 | 0.33 | <10 | <2 |
| AER22TS-4025 | Till | 18.6 | 4.53 | 17.64 | 3.71 | 0.76 | 3.61 | 0.48 | 2.69 | 0.48 | 1.29 | 0.16 | 0.93 | 0.13 | <10 | <2 |
| AER22TS-4026 | Till | 15.5 | 3.04 | 11.93 | 2.48 | 0.47 | 2.28 | 0.30 | 1.74 | 0.31 | 0.82 | 0.10 | 0.63 | 0.09 | <10 | <2 |
| AER22TS-4027 | Till | 28.0 | 5.13 | 19.28 | 3.82 | 0.76 | 3.42 | 0.45 | 2.52 | 0.45 | 1.20 | 0.15 | 0.92 | 0.13 | <10 | <2 |
| AER22TS-4028 | Till | 14.4 | 6.31 | 24.85 | 5.08 | 1.03 | 5.09 | 0.69 | 3.95 | 0.74 | 2.01 | 0.25 | 1.52 | 0.22 | <10 | <2 |
| AER22TS-4029 | Till | 14.3 | 6.05 | 23.68 | 4.96 | 1.02 | 4.81 | 0.65 | 3.77 | 0.70 | 1.87 | 0.23 | 1.42 | 0.20 | <10 | <2 |
| AER22TS-4030 | Till | 10.6 | 3.91 | 15.77 | 3.29 | 0.61 | 2.56 | 0.34 | 1.89 | 0.33 | 0.92 | 0.12 | 0.80 | 0.11 | <10 | <2 |
| AER22TS-4031 | Till | 18.1 | 5.28 | 20.29 | 4.28 | 0.86 | 3.94 | 0.54 | 3.10 | 0.56 | 1.53 | 0.20 | 1.23 | 0.17 | <10 | <2 |
| AER22TS-4032 | Till | 13.8 | 6.35 | 24.78 | 5.15 | 1.02 | 4.64 | 0.62 | 3.51 | 0.65 | 1.77 | 0.24 | 1.48 | 0.22 | <10 | <2 |
| AER22TS-4033 | Till | 18.7 | 5.50 | 21.44 | 4.38 | 0.90 | 3.90 | 0.53 | 3.00 | 0.55 | 1.48 | 0.19 | 1.21 | 0.17 | <10 | <2 |
| AER22TS-4034 | Rock Pulp | 8.6 | 5.28 | 17.49 | 2.57 | 0.55 | 1.72 | 0.20 | 1.12 | 0.20 | 0.54 | 0.07 | 0.46 | 0.06 | 45 | 26 |
| AER22TS-4035 | Till | 15.6 | 5.34 | 20.21 | 4.03 | 0.79 | 3.56 | 0.47 | 2.70 | 0.49 | 1.31 | 0.17 | 1.04 | 0.15 | <10 | <2 |
| AER22TS-4036 | Till | 11.6 | 6.25 | 23.57 | 4.69 | 0.88 | 4.12 | 0.55 | 3.10 | 0.56 | 1.52 | 0.20 | 1.23 | 0.18 | <10 | <2 |
| AER22TS-4037 | Till | 17.2 | 4.56 | 17.33 | 3.46 | 0.68 | 3.09 | 0.42 | 2.35 | 0.42 | 1.15 | 0.15 | 0.89 | 0.12 | <10 | <2 |
| AER22TS-4038 | Till | 8.3 | 5.19 | 19.68 | 3.80 | 0.68 | 3.22 | 0.42 | 2.33 | 0.41 | 1.11 | 0.14 | 0.86 | 0.12 | <10 | <2 |
| AER22TS-4039 | Till | 12.5 | 5.56 | 21.33 | 4.20 | 0.81 | 3.67 | 0.49 | 2.74 | 0.49 | 1.32 | 0.17 | 1.05 | 0.14 | <10 | <2 |
| AER22TS-4040 | Till | 9.4 | 5.47 | 20.85 | 4.04 | 0.74 | 3.48 | 0.45 | 2.58 | 0.46 | 1.22 | 0.16 | 0.95 | 0.13 | <10 | <2 |



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CERTIFICATE OF ANALYSIS

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| Method | | WGHT | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 |
|--------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte | | Wgt | Ba | Be | Co | Cs | Ga | Hf | Nb | Rb | Sn | Sr | Ta | Th | U | V | W | Zr | Y | La | Ce |
| Unit | | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| MDL | | 0.01 | 1 | 1 | 0.2 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 1 | 0.5 | 0.1 | 0.2 | 0.1 | 8 | 0.5 | 0.1 | 0.1 | 0.1 | 0.1 |
| AER22TS-4041 | Pulp DUP | | 748 | 8 | 12.4 | 4.8 | 14.8 | 9.5 | 14.9 | 82.9 | 2 | 132.1 | 0.9 | 11.5 | 4.5 | 120 | 1.2 | 382.4 | 34.2 | 41.1 | 82.7 |
| AER22TS-4042 | Till | 2.01 | 588 | 6 | 12.4 | 3.4 | 10.1 | 13.4 | 13.3 | 57.4 | 2 | 114.2 | 0.8 | 11.0 | 3.2 | 78 | 1.1 | 542.6 | 34.5 | 37.0 | 73.3 |
| AER22TS-4043 | Till | 1.91 | 668 | <1 | 10.3 | 4.0 | 13.2 | 10.9 | 14.6 | 73.9 | 1 | 127.5 | 1.0 | 11.3 | 3.0 | 102 | 1.3 | 459.1 | 34.0 | 40.3 | 77.7 |
| AER22TS-4044 | Till | 1.76 | 919 | 2 | 14.0 | 5.7 | 16.2 | 8.4 | 13.2 | 93.4 | 2 | 127.5 | 0.9 | 10.3 | 3.2 | 175 | 1.2 | 331.3 | 36.9 | 38.7 | 78.6 |
| AER22TS-4045 | Till | 1.74 | 842 | 4 | 8.5 | 7.3 | 16.2 | 7.3 | 15.0 | 101.0 | 2 | 114.6 | 0.9 | 10.9 | 4.1 | 190 | 1.9 | 295.8 | 30.8 | 39.3 | 75.0 |
| AER22TS-4046 | Till | 1.95 | 649 | <1 | 14.5 | 4.1 | 14.2 | 10.5 | 14.9 | 82.2 | 2 | 120.7 | 0.9 | 11.7 | 3.2 | 108 | 1.4 | 447.4 | 33.3 | 41.7 | 82.1 |
| AER22TS-4047 | Till | 1.58 | 676 | <1 | 13.1 | 5.0 | 15.8 | 8.3 | 14.3 | 93.8 | 2 | 190.5 | 0.9 | 11.6 | 4.2 | 141 | 1.7 | 336.2 | 27.8 | 37.9 | 76.8 |
| AER22TS-4048 | Till | 2.05 | 645 | <1 | 10.6 | 3.4 | 11.3 | 11.0 | 13.0 | 69.3 | 1 | 156.9 | 1.2 | 9.6 | 3.8 | 92 | 1.4 | 439.7 | 28.4 | 33.7 | 67.6 |
| AER22TS-4049 | Till | 2.31 | 598 | <1 | 13.6 | 2.8 | 10.8 | 13.2 | 13.2 | 61.9 | 1 | 131.5 | 0.8 | 10.1 | 3.4 | 93 | 1.1 | 545.5 | 31.1 | 37.0 | 77.0 |
| AER22TS-4050 | Till | 2.33 | 522 | <1 | 9.0 | 1.7 | 7.3 | 22.1 | 13.8 | 46.0 | 1 | 108.2 | 1.0 | 12.2 | 3.7 | 49 | 1.6 | 922.8 | 41.9 | 43.5 | 81.1 |
| AER22TS-4051 | Till | 2.18 | 871 | 2 | 18.3 | 5.7 | 15.0 | 7.6 | 14.6 | 89.0 | 2 | 151.8 | 0.8 | 10.9 | 4.3 | 132 | 1.8 | 297.5 | 28.2 | 36.2 | 69.0 |
| AER22TS-4052 | Till | 1.94 | 657 | 2 | 9.8 | 3.9 | 13.6 | 9.3 | 13.5 | 80.4 | 2 | 128.7 | 0.8 | 10.9 | 4.0 | 100 | 1.2 | 381.8 | 28.8 | 38.9 | 77.7 |
| AER22TS-4053 | Rock Pulp | 0.06 | 463 | 2 | 46.7 | 1.7 | 12.6 | 4.0 | 15.3 | 34.7 | 7 | 397.4 | 0.5 | 4.1 | 0.8 | 66 | <0.5 | 145.0 | 10.8 | 30.6 | 54.8 |
| AER22TS-4054 | Till | 1.98 | 665 | 8 | 10.4 | 4.0 | 12.4 | 9.5 | 12.6 | 71.0 | 2 | 109.7 | 1.0 | 11.2 | 4.5 | 112 | 1.6 | 328.7 | 29.9 | 36.0 | 73.4 |
| AER22TS-4055 | Till | 2.25 | 619 | 2 | 10.2 | 4.2 | 12.2 | 10.0 | 12.3 | 70.3 | 2 | 107.9 | 0.9 | 10.8 | 4.4 | 105 | 1.5 | 340.3 | 29.9 | 35.3 | 72.3 |
| AER22TS-4056 | Till | 2.03 | 472 | <1 | 7.7 | 2.5 | 8.4 | 13.0 | 10.7 | 51.4 | 1 | 105.8 | 0.9 | 10.0 | 2.8 | 78 | 1.2 | 466.1 | 24.4 | 28.9 | 61.3 |
| AER22TS-4057 | Till | 1.73 | 582 | 2 | 11.5 | 3.6 | 12.5 | 9.7 | 11.6 | 65.0 | 3 | 118.1 | 0.9 | 10.5 | 2.6 | 94 | 1.5 | 349.6 | 27.3 | 33.4 | 67.5 |
| AER22TS-4058 | Till | 1.68 | 584 | 2 | 9.9 | 3.9 | 12.6 | 8.5 | 11.8 | 69.9 | 3 | 149.8 | 0.9 | 10.8 | 4.0 | 115 | 1.7 | 298.7 | 28.9 | 34.3 | 67.0 |
| AER22TS-4059 | Till | 2.22 | 544 | <1 | 12.2 | 3.7 | 11.3 | 10.1 | 11.9 | 66.4 | 2 | 110.3 | 0.9 | 10.7 | 3.2 | 94 | 1.1 | 380.5 | 30.8 | 33.2 | 69.2 |
| AER22TS-4060 | Till | 1.81 | 592 | <1 | 9.0 | 4.3 | 11.6 | 9.8 | 13.1 | 72.6 | 1 | 122.4 | 1.3 | 10.4 | 4.6 | 113 | 1.1 | 346.1 | 25.5 | 32.7 | 67.3 |
| AER22TS-4061 | Pulp DUP | <0.01 | 624 | <1 | 8.8 | 3.8 | 12.7 | 9.9 | 13.0 | 68.1 | 2 | 109.0 | 1.0 | 11.5 | 3.7 | 121 | 0.9 | 362.8 | 35.2 | 41.2 | 75.5 |
| AER22TS-4062 | Till | 1.87 | 505 | <1 | 12.6 | 4.0 | 12.7 | 9.2 | 11.9 | 69.0 | 2 | 100.6 | 1.0 | 11.1 | 2.8 | 103 | 1.0 | 341.6 | 30.4 | 37.4 | 75.8 |
| AER22TS-4063 | Till | 1.95 | 525 | <1 | 10.6 | 2.7 | 9.0 | 9.7 | 11.2 | 55.9 | 1 | 108.7 | 0.9 | 8.5 | 2.8 | 74 | 1.2 | 390.8 | 25.8 | 28.5 | 59.8 |
| AER22TS-4064 | Till | 1.56 | 535 | 1 | 9.4 | 3.9 | 11.6 | 8.9 | 12.1 | 69.9 | 1 | 113.7 | 0.7 | 9.4 | 2.9 | 96 | 1.5 | 333.6 | 24.2 | 32.3 | 66.5 |
| AER22TS-4065 | Till | 2.04 | 576 | <1 | 10.3 | 3.7 | 10.9 | 8.9 | 12.3 | 67.2 | 2 | 142.9 | 0.8 | 9.6 | 3.2 | 89 | 0.9 | 338.0 | 27.6 | 32.1 | 66.4 |
| AER22TS-4066 | Rock Pulp | 0.07 | 437 | <1 | 47.9 | 2.0 | 12.4 | 4.0 | 15.5 | 36.6 | 6 | 394.4 | 0.4 | 4.1 | 0.8 | 52 | <0.5 | 149.7 | 10.6 | 31.0 | 56.8 |
| AER22TS-4067 | Till | 1.62 | 618 | 4 | 7.1 | 4.1 | 13.2 | 9.8 | 13.2 | 69.5 | 2 | 110.6 | 0.9 | 11.7 | 3.5 | 127 | 1.7 | 384.3 | 37.1 | 39.5 | 75.2 |
| AER22TS-4068 | Till | 2.11 | 680 | <1 | 10.5 | 4.2 | 13.5 | 10.3 | 12.9 | 72.2 | 2 | 109.8 | 0.9 | 12.4 | 3.8 | 125 | 1.2 | 377.6 | 38.0 | 41.8 | 79.4 |
| AER22TS-4069 | Till | 2.23 | 651 | 6 | 9.8 | 4.3 | 13.5 | 10.4 | 13.4 | 72.2 | 2 | 115.1 | 1.0 | 11.6 | 3.6 | 127 | 1.5 | 407.4 | 37.0 | 40.2 | 76.4 |
| AER22TS-4070 | Till | 1.57 | 640 | 1 | 13.9 | 5.2 | 15.1 | 7.7 | 13.2 | 90.2 | 3 | 132.1 | 0.9 | 10.4 | 3.6 | 135 | 1.4 | 297.3 | 26.7 | 35.2 | 71.1 |



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Project:

AER

Report Date:

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CERTIFICATE OF ANALYSIS

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| Method Analyte Unit MDL | | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |
|----------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu | Mo | Cu | Pb | Zn | Ni | As | Cd | Sb |
| | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | | 0.02 | 0.3 | 0.05 | 0.02 | 0.05 | 0.01 | 0.05 | 0.02 | 0.03 | 0.01 | 0.05 | 0.01 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.5 | 0.1 | 0.1 |
| AER22TS-4041 | Pulp DUP | 9.25 | 35.0 | 6.72 | 1.41 | 6.27 | 0.95 | 5.84 | 1.17 | 3.64 | 0.51 | 3.27 | 0.52 | 1.8 | 22.0 | 13.3 | 71 | 25.2 | 11.0 | 0.1 | 0.2 |
| AER22TS-4042 | Till | 8.59 | 33.5 | 6.61 | 1.27 | 6.20 | 0.96 | 5.98 | 1.25 | 3.74 | 0.57 | 3.72 | 0.59 | 0.7 | 17.0 | 12.6 | 65 | 25.6 | 12.0 | 0.1 | 0.2 |
| AER22TS-4043 | Till | 9.19 | 34.6 | 6.82 | 1.49 | 6.71 | 0.97 | 5.84 | 1.26 | 3.78 | 0.54 | 3.47 | 0.55 | 0.8 | 19.6 | 11.0 | 72 | 28.5 | 10.7 | 0.1 | 0.2 |
| AER22TS-4044 | Till | 8.90 | 33.1 | 6.46 | 1.53 | 6.48 | 0.95 | 5.89 | 1.13 | 3.57 | 0.47 | 3.35 | 0.52 | 1.4 | 26.7 | 15.0 | 103 | 44.4 | 13.3 | 0.1 | 0.2 |
| AER22TS-4045 | Till | 9.02 | 35.5 | 7.23 | 1.59 | 6.64 | 0.97 | 5.86 | 1.23 | 3.72 | 0.52 | 3.55 | 0.51 | 1.1 | 25.3 | 13.9 | 96 | 26.1 | 13.7 | <0.1 | 0.2 |
| AER22TS-4046 | Till | 9.13 | 35.1 | 6.45 | 1.33 | 6.15 | 0.93 | 5.91 | 1.17 | 3.48 | 0.48 | 3.37 | 0.53 | 1.2 | 20.0 | 14.0 | 76 | 29.8 | 9.1 | 0.4 | 0.2 |
| AER22TS-4047 | Till | 8.38 | 32.5 | 5.81 | 1.27 | 5.67 | 0.82 | 5.13 | 1.04 | 3.11 | 0.45 | 2.95 | 0.43 | 1.9 | 23.9 | 12.7 | 87 | 27.2 | 10.5 | 0.3 | 0.2 |
| AER22TS-4048 | Till | 7.59 | 29.4 | 5.50 | 1.12 | 5.23 | 0.80 | 4.84 | 0.99 | 3.02 | 0.43 | 2.83 | 0.46 | 1.3 | 18.2 | 11.8 | 67 | 21.6 | 11.0 | 0.2 | 0.2 |
| AER22TS-4049 | Till | 8.42 | 29.8 | 6.20 | 1.20 | 5.91 | 0.87 | 5.16 | 1.05 | 3.26 | 0.49 | 3.06 | 0.50 | 0.8 | 15.7 | 11.9 | 61 | 25.8 | 10.1 | 0.2 | 0.2 |
| AER22TS-4050 | Till | 10.20 | 40.8 | 7.82 | 1.34 | 7.49 | 1.13 | 6.71 | 1.47 | 4.58 | 0.64 | 4.39 | 0.73 | 0.6 | 13.9 | 10.6 | 52 | 19.6 | 10.1 | <0.1 | 0.2 |
| AER22TS-4051 | Till | 8.00 | 28.9 | 5.60 | 1.20 | 5.46 | 0.79 | 4.69 | 1.04 | 2.98 | 0.41 | 2.77 | 0.43 | 1.4 | 26.0 | 15.6 | 102 | 33.3 | 11.9 | 0.3 | 0.2 |
| AER22TS-4052 | Till | 8.69 | 32.0 | 6.23 | 1.26 | 5.51 | 0.83 | 4.90 | 1.02 | 3.04 | 0.46 | 2.91 | 0.46 | 1.4 | 20.2 | 13.0 | 71 | 24.7 | 10.1 | 0.2 | 0.2 |
| AER22TS-4053 | Rock Pulp | 6.38 | 23.0 | 3.73 | 0.97 | 2.89 | 0.38 | 2.24 | 0.42 | 1.14 | 0.17 | 1.07 | 0.16 | 12.0 | 153.9 | 263.2 | 211 | 78.6 | 9.3 | 0.5 | 0.2 |
| AER22TS-4054 | Till | 8.32 | 31.8 | 6.33 | 1.24 | 5.91 | 0.93 | 5.30 | 1.16 | 3.36 | 0.51 | 3.51 | 0.53 | 2.0 | 22.1 | 13.8 | 71 | 25.1 | 11.3 | 0.1 | 0.3 |
| AER22TS-4055 | Till | 8.32 | 32.0 | 5.98 | 1.21 | 5.96 | 0.91 | 5.43 | 1.14 | 3.15 | 0.47 | 3.22 | 0.53 | 2.0 | 21.9 | 13.9 | 70 | 24.8 | 11.1 | 0.1 | 0.3 |
| AER22TS-4056 | Till | 6.97 | 26.2 | 5.13 | 0.98 | 4.80 | 0.76 | 4.37 | 0.97 | 3.00 | 0.42 | 3.07 | 0.46 | 0.8 | 16.1 | 10.8 | 63 | 17.5 | 9.5 | <0.1 | 0.3 |
| AER22TS-4057 | Till | 7.69 | 29.3 | 5.29 | 1.09 | 5.26 | 0.80 | 4.88 | 1.05 | 2.98 | 0.46 | 3.08 | 0.48 | 1.4 | 20.6 | 14.0 | 72 | 26.2 | 13.7 | 0.3 | 0.3 |
| AER22TS-4058 | Till | 7.87 | 30.9 | 5.55 | 1.19 | 5.47 | 0.82 | 4.81 | 1.06 | 2.95 | 0.44 | 2.87 | 0.43 | 1.8 | 26.9 | 13.7 | 66 | 32.5 | 9.7 | 0.1 | 0.4 |
| AER22TS-4059 | Till | 7.76 | 30.3 | 5.64 | 1.12 | 5.38 | 0.83 | 5.02 | 1.16 | 3.28 | 0.51 | 3.18 | 0.52 | 1.1 | 19.5 | 13.7 | 64 | 30.8 | 10.0 | 0.2 | 0.2 |
| AER22TS-4060 | Till | 7.42 | 27.9 | 5.12 | 1.05 | 5.27 | 0.79 | 4.63 | 0.98 | 2.77 | 0.43 | 2.90 | 0.49 | 2.2 | 22.6 | 13.2 | 75 | 25.2 | 9.4 | 0.3 | 0.4 |
| AER22TS-4061 | Pulp DUP | 9.48 | 37.0 | 7.28 | 1.53 | 7.04 | 1.05 | 6.25 | 1.29 | 3.82 | 0.56 | 3.67 | 0.57 | 3.0 | 29.0 | 13.8 | 71 | 29.2 | 15.5 | 0.1 | 0.5 |
| AER22TS-4062 | Till | 8.86 | 34.5 | 6.44 | 1.38 | 6.20 | 0.92 | 5.61 | 1.12 | 3.39 | 0.48 | 3.27 | 0.49 | 1.0 | 22.8 | 15.0 | 70 | 33.0 | 12.5 | 0.1 | 0.4 |
| AER22TS-4063 | Till | 6.62 | 24.9 | 4.91 | 0.99 | 4.61 | 0.72 | 4.30 | 0.91 | 2.54 | 0.43 | 2.72 | 0.43 | 1.0 | 16.3 | 11.7 | 65 | 25.3 | 10.8 | 0.3 | 0.3 |
| AER22TS-4064 | Till | 7.19 | 27.2 | 4.96 | 1.08 | 4.81 | 0.73 | 4.13 | 0.95 | 2.75 | 0.39 | 2.69 | 0.43 | 0.8 | 17.1 | 11.0 | 59 | 22.8 | 8.0 | 0.1 | 0.2 |
| AER22TS-4065 | Till | 7.36 | 27.0 | 5.02 | 1.04 | 4.90 | 0.79 | 4.81 | 0.98 | 2.85 | 0.42 | 2.87 | 0.46 | 1.0 | 19.2 | 11.6 | 70 | 22.8 | 11.1 | 0.2 | 0.2 |
| AER22TS-4066 | Rock Pulp | 6.19 | 23.2 | 3.90 | 0.99 | 2.94 | 0.36 | 1.99 | 0.38 | 1.04 | 0.16 | 1.11 | 0.16 | 11.6 | 153.1 | 255.5 | 201 | 79.5 | 9.1 | 0.4 | 0.2 |
| AER22TS-4067 | Till | 9.11 | 35.0 | 6.69 | 1.43 | 6.53 | 1.04 | 5.90 | 1.20 | 3.60 | 0.52 | 3.64 | 0.59 | 2.5 | 25.3 | 12.7 | 69 | 27.5 | 12.2 | 0.1 | 0.5 |
| AER22TS-4068 | Till | 9.64 | 37.2 | 7.41 | 1.53 | 7.06 | 1.02 | 6.44 | 1.29 | 3.98 | 0.55 | 3.73 | 0.61 | 2.7 | 27.1 | 13.5 | 71 | 30.4 | 16.4 | 0.1 | 0.5 |
| AER22TS-4069 | Till | 9.37 | 36.0 | 7.07 | 1.54 | 6.97 | 1.04 | 6.24 | 1.30 | 3.80 | 0.54 | 3.68 | 0.59 | 2.8 | 27.5 | 13.6 | 73 | 29.1 | 15.9 | 0.1 | 0.4 |
| AER22TS-4070 | Till | 8.06 | 29.8 | 5.79 | 1.13 | 5.35 | 0.81 | 4.83 | 0.95 | 2.88 | 0.41 | 2.89 | 0.42 | 2.4 | 24.0 | 14.1 | 83 | 35.4 | 10.8 | 0.4 | 0.4 |



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| Method Analyte Unit MDL | | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 |
|----------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Bi | Ag | Au | Hg | Tl | Se | SiO2 | Al2O3 | Fe2O3 | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | MnO | Cr2O3 | Ba | Ni | Sr |
| | | ppm | ppm | ppb | ppm | ppm | ppm | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm |
| | | 0.1 | 0.1 | 0.5 | 0.01 | 0.1 | 0.5 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.002 | 5 | 20 | 2 |
| AER22TS-4041 | Pulp DUP | 0.2 | <0.1 | 0.9 | 0.05 | 0.3 | 1.1 | 70.38 | 11.76 | 4.68 | 0.99 | 0.61 | 0.66 | 2.02 | 0.74 | 0.19 | 0.05 | 0.009 | 651 | 35 | 119 |
| AER22TS-4042 | Till | 0.1 | <0.1 | 1.2 | 0.07 | 0.2 | <0.5 | 75.63 | 8.78 | 4.73 | 0.76 | 0.76 | 0.82 | 1.71 | 0.68 | 0.15 | 0.06 | 0.008 | 512 | 27 | 103 |
| AER22TS-4043 | Till | 0.2 | <0.1 | 1.3 | 0.06 | 0.2 | 0.5 | 73.10 | 10.70 | 4.62 | 0.91 | 0.56 | 0.78 | 1.97 | 0.73 | 0.18 | 0.04 | 0.009 | 568 | 34 | 108 |
| AER22TS-4044 | Till | 0.2 | 0.1 | 1.4 | 0.09 | 0.2 | 0.7 | 66.76 | 12.95 | 5.13 | 1.40 | 0.75 | 0.66 | 2.11 | 0.71 | 0.20 | 0.04 | 0.011 | 838 | 48 | 110 |
| AER22TS-4045 | Till | 0.2 | <0.1 | 1.9 | 0.07 | 0.2 | 1.1 | 69.90 | 12.31 | 4.77 | 1.21 | 0.44 | 0.54 | 2.01 | 0.71 | 0.15 | 0.02 | 0.012 | 761 | 29 | 99 |
| AER22TS-4046 | Till | 0.2 | <0.1 | 1.4 | 0.04 | 0.3 | <0.5 | 70.32 | 11.17 | 4.63 | 1.18 | 1.16 | 0.67 | 2.00 | 0.73 | 0.16 | 0.08 | 0.010 | 577 | 36 | 108 |
| AER22TS-4047 | Till | 0.2 | 0.1 | 0.8 | 0.05 | 0.2 | 1.0 | 65.00 | 12.44 | 4.55 | 1.73 | 2.68 | 0.69 | 2.26 | 0.70 | 0.17 | 0.04 | 0.011 | 609 | 37 | 171 |
| AER22TS-4048 | Till | 0.2 | 0.1 | 1.1 | 0.04 | 0.2 | 0.6 | 69.98 | 9.62 | 4.66 | 1.64 | 2.63 | 0.75 | 1.85 | 0.66 | 0.17 | 0.05 | 0.009 | 575 | 26 | 141 |
| AER22TS-4049 | Till | 0.1 | <0.1 | 1.0 | 0.05 | 0.2 | <0.5 | 72.88 | 8.74 | 3.96 | 1.36 | 2.38 | 0.75 | 1.66 | 0.65 | 0.16 | 0.06 | 0.008 | 528 | 31 | 116 |
| AER22TS-4050 | Till | 0.1 | <0.1 | 1.6 | 0.06 | 0.2 | <0.5 | 81.28 | 6.73 | 3.72 | 0.52 | 0.67 | 0.88 | 1.52 | 0.70 | 0.18 | 0.05 | 0.008 | 481 | 25 | 101 |
| AER22TS-4051 | Till | 0.3 | 0.2 | 0.7 | 0.07 | 0.2 | 1.0 | 67.69 | 12.50 | 4.70 | 1.35 | 1.32 | 0.68 | 2.26 | 0.74 | 0.19 | 0.06 | 0.013 | 858 | 39 | 151 |
| AER22TS-4052 | Till | 0.2 | 0.1 | 1.3 | 0.04 | 0.2 | 1.1 | 70.72 | 11.60 | 4.67 | 1.06 | 0.86 | 0.71 | 2.04 | 0.72 | 0.17 | 0.04 | 0.011 | 631 | 30 | 124 |
| AER22TS-4053 | Rock Pulp | 0.1 | 0.1 | 38.8 | 0.01 | <0.1 | <0.5 | 71.66 | 12.18 | 4.02 | 1.71 | 3.28 | 3.52 | 1.50 | 0.38 | 0.13 | 0.06 | 0.016 | 459 | 90 | 397 |
| AER22TS-4054 | Till | 0.2 | <0.1 | 1.0 | 0.06 | 0.3 | 1.1 | 70.56 | 11.63 | 4.81 | 0.99 | 0.60 | 0.66 | 2.00 | 0.73 | 0.21 | 0.06 | 0.012 | 686 | 32 | 117 |
| AER22TS-4055 | Till | 0.2 | <0.1 | 1.3 | 0.06 | 0.3 | 1.1 | 70.49 | 11.71 | 4.74 | 1.01 | 0.61 | 0.67 | 1.98 | 0.73 | 0.20 | 0.05 | 0.010 | 664 | 32 | 117 |
| AER22TS-4056 | Till | 0.1 | <0.1 | 1.4 | 0.05 | 0.1 | <0.5 | 71.95 | 8.72 | 3.85 | 1.90 | 2.57 | 0.79 | 1.73 | 0.65 | 0.16 | 0.03 | 0.009 | 488 | <20 | 111 |
| AER22TS-4057 | Till | 0.2 | 0.1 | 1.8 | 0.06 | 0.3 | <0.5 | 66.75 | 10.87 | 4.90 | 1.55 | 3.15 | 0.73 | 1.86 | 0.68 | 0.17 | 0.06 | 0.009 | 596 | 28 | 128 |
| AER22TS-4058 | Till | 0.2 | 0.1 | 1.4 | 0.06 | 0.3 | <0.5 | 65.77 | 12.20 | 4.86 | 1.71 | 2.41 | 0.87 | 2.00 | 0.71 | 0.19 | 0.07 | 0.013 | 638 | 38 | 161 |
| AER22TS-4059 | Till | 0.2 | <0.1 | 1.0 | 0.05 | 0.2 | <0.5 | 72.86 | 10.60 | 4.45 | 0.97 | 0.71 | 0.71 | 1.88 | 0.69 | 0.17 | 0.07 | 0.009 | 551 | 33 | 109 |
| AER22TS-4060 | Till | 0.2 | 0.1 | 1.1 | 0.06 | 0.3 | 1.0 | 69.35 | 10.92 | 4.12 | 1.30 | 1.81 | 0.73 | 2.00 | 0.72 | 0.17 | 0.05 | 0.010 | 629 | 26 | 129 |
| AER22TS-4061 | Pulp DUP | 0.2 | 0.1 | 2.5 | 0.11 | 0.3 | 0.5 | 69.50 | 11.30 | 5.98 | 1.05 | 0.71 | 0.69 | 1.84 | 0.70 | 0.19 | 0.05 | 0.010 | 641 | 31 | 112 |
| AER22TS-4062 | Till | 0.2 | <0.1 | 1.6 | 0.06 | 0.2 | 0.6 | 68.84 | 11.68 | 5.46 | 1.13 | 0.81 | 0.72 | 1.97 | 0.71 | 0.17 | 0.07 | 0.011 | 532 | 37 | 107 |
| AER22TS-4063 | Till | 0.1 | 0.1 | 1.2 | 0.04 | 0.2 | <0.5 | 72.29 | 8.94 | 3.99 | 1.63 | 2.45 | 0.87 | 1.84 | 0.67 | 0.16 | 0.07 | 0.007 | 548 | 26 | 115 |
| AER22TS-4064 | Till | 0.2 | <0.1 | 0.9 | 0.03 | 0.2 | <0.5 | 71.04 | 10.41 | 3.93 | 1.38 | 1.73 | 0.76 | 1.94 | 0.70 | 0.15 | 0.05 | 0.008 | 568 | 22 | 120 |
| AER22TS-4065 | Till | 0.2 | 0.1 | 0.8 | 0.04 | 0.2 | <0.5 | 69.44 | 9.99 | 4.45 | 1.40 | 2.79 | 0.77 | 1.97 | 0.71 | 0.17 | 0.05 | 0.008 | 577 | 27 | 148 |
| AER22TS-4066 | Rock Pulp | 0.1 | 0.1 | 36.9 | <0.01 | <0.1 | <0.5 | 72.19 | 11.89 | 3.98 | 1.68 | 3.24 | 3.45 | 1.46 | 0.37 | 0.12 | 0.06 | 0.015 | 453 | 84 | 392 |
| AER22TS-4067 | Till | 0.2 | <0.1 | 2.0 | 0.07 | 0.3 | 0.6 | 70.09 | 11.73 | 4.88 | 1.07 | 0.70 | 0.67 | 1.88 | 0.71 | 0.17 | 0.03 | 0.011 | 644 | 28 | 112 |
| AER22TS-4068 | Till | 0.2 | 0.1 | 2.5 | 0.09 | 0.4 | <0.5 | 69.99 | 11.21 | 5.76 | 1.00 | 0.72 | 0.69 | 1.79 | 0.71 | 0.19 | 0.06 | 0.011 | 665 | 35 | 113 |
| AER22TS-4069 | Till | 0.2 | 0.1 | 2.0 | 0.09 | 0.3 | 0.6 | 69.37 | 11.41 | 6.01 | 1.05 | 0.71 | 0.69 | 1.83 | 0.70 | 0.18 | 0.05 | 0.010 | 654 | 36 | 113 |
| AER22TS-4070 | Till | 0.2 | 0.1 | 1.2 | 0.05 | 0.4 | 0.7 | 65.34 | 12.39 | 5.03 | 1.72 | 2.01 | 0.67 | 2.13 | 0.69 | 0.19 | 0.06 | 0.011 | 656 | 38 | 132 |



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| | Method | Analyte | Unit | MDL | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | TC000 | TC005 | TC005 | TC006 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | | |
|--------------|--------|---------|------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|------|------|
| | | | | | Zr | Y | Nb | Sc | LOI | Sum | TOT/C | C/ORG | C/GRA | CO2 | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As |
| | | | | | ppm | ppm | ppm | ppm | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppb | ppm | ppm | ppm | % | ppm |
| | | | | | 5 | 3 | 5 | 1 | -5.1 | 0.01 | 0.02 | 0.02 | 0.02 | 0.08 | 0.01 | 0.01 | 0.01 | 0.1 | 2 | 0.1 | 0.1 | 1 | 0.01 | 0.1 |
| AER22TS-4041 | Pulp | DUP | | | 408 | 32 | 13 | 11 | 7.7 | 99.96 | 0.86 | 0.83 | 0.03 | <0.08 | 1.99 | 22.25 | 14.19 | 71.3 | 67 | 25.1 | 9.7 | 357 | 2.43 | 10.6 |
| AER22TS-4042 | Till | | | | 570 | 30 | <5 | 9 | 5.7 | 99.98 | 0.57 | 0.54 | <0.02 | 0.10 | 0.73 | 16.90 | 12.74 | 64.6 | 83 | 24.7 | 10.6 | 414 | 2.77 | 11.3 |
| AER22TS-4043 | Till | | | | 456 | 32 | 10 | 10 | 6.2 | 99.96 | 0.47 | 0.45 | <0.02 | <0.08 | 0.89 | 19.48 | 11.26 | 71.1 | 72 | 28.1 | 8.1 | 259 | 2.54 | 10.4 |
| AER22TS-4044 | Till | | | | 360 | 33 | 15 | 13 | 9.1 | 99.93 | 0.94 | 0.92 | 0.02 | <0.08 | 1.54 | 25.22 | 14.31 | 99.5 | 134 | 40.6 | 11.7 | 290 | 2.66 | 12.2 |
| AER22TS-4045 | Till | | | | 285 | 28 | 14 | 13 | 7.7 | 99.94 | 0.58 | 0.56 | <0.02 | <0.08 | 1.19 | 24.53 | 14.40 | 93.1 | 44 | 25.7 | 6.2 | 109 | 2.62 | 13.4 |
| AER22TS-4046 | Till | | | | 461 | 30 | 13 | 10 | 7.7 | 99.96 | 0.97 | 0.85 | <0.02 | 0.37 | 1.18 | 18.82 | 12.92 | 71.0 | 91 | 26.9 | 12.3 | 533 | 2.35 | 8.3 |
| AER22TS-4047 | Till | | | | 331 | 26 | 15 | 11 | 9.5 | 99.93 | 2.13 | 1.65 | 0.03 | 1.66 | 2.06 | 22.45 | 12.69 | 82.8 | 121 | 25.8 | 9.9 | 296 | 2.22 | 9.8 |
| AER22TS-4048 | Till | | | | 436 | 26 | 14 | 9 | 7.8 | 99.95 | 1.24 | 0.67 | <0.02 | 1.99 | 1.28 | 16.96 | 11.51 | 62.2 | 103 | 19.5 | 8.7 | 347 | 2.51 | 10.1 |
| AER22TS-4049 | Till | | | | 541 | 27 | 7 | 8 | 7.2 | 99.96 | 1.06 | 0.57 | <0.02 | 1.73 | 0.88 | 15.22 | 11.58 | 60.3 | 87 | 23.9 | 10.5 | 431 | 2.22 | 9.3 |
| AER22TS-4050 | Till | | | | 980 | 39 | 9 | 7 | 3.5 | 99.98 | 0.36 | 0.34 | <0.02 | <0.08 | 0.61 | 13.38 | 10.54 | 50.3 | 73 | 18.4 | 7.5 | 293 | 2.18 | 9.7 |
| AER22TS-4051 | Till | | | | 326 | 27 | 11 | 11 | 8.3 | 99.94 | 1.38 | 1.24 | 0.03 | 0.44 | 1.45 | 24.29 | 15.28 | 96.1 | 160 | 30.4 | 16.3 | 437 | 2.33 | 11.0 |
| AER22TS-4052 | Till | | | | 413 | 29 | 12 | 10 | 7.2 | 99.96 | 0.80 | 0.76 | 0.03 | <0.08 | 1.47 | 19.27 | 12.60 | 67.9 | 138 | 23.0 | 7.3 | 239 | 2.23 | 9.3 |
| AER22TS-4053 | Rock | Pulp | | | 166 | 10 | 12 | 9 | 1.3 | 99.87 | 0.07 | 0.02 | <0.02 | 0.20 | 10.76 | 136.23 | 240.61 | 184.1 | 97 | 69.4 | 43.3 | 236 | 1.43 | 8.1 |
| AER22TS-4054 | Till | | | | 366 | 30 | 13 | 11 | 7.5 | 99.92 | 0.83 | 0.78 | 0.03 | 0.08 | 2.31 | 21.91 | 14.21 | 68.5 | 64 | 24.4 | 9.7 | 350 | 2.29 | 11.0 |
| AER22TS-4055 | Till | | | | 372 | 32 | 13 | 11 | 7.6 | 99.93 | 0.84 | 0.80 | 0.02 | 0.08 | 2.25 | 21.39 | 13.95 | 67.8 | 65 | 24.3 | 9.2 | 313 | 2.24 | 11.0 |
| AER22TS-4056 | Till | | | | 536 | 26 | 14 | 8 | 7.4 | 99.94 | 1.23 | 0.49 | <0.02 | 2.65 | 0.81 | 14.38 | 10.29 | 57.4 | 62 | 15.6 | 6.9 | 145 | 2.04 | 8.6 |
| AER22TS-4057 | Till | | | | 396 | 27 | 10 | 10 | 9.1 | 99.94 | 1.19 | 0.56 | <0.02 | 2.24 | 1.46 | 17.66 | 12.54 | 61.6 | 93 | 23.3 | 10.7 | 370 | 2.45 | 11.9 |
| AER22TS-4058 | Till | | | | 352 | 30 | 11 | 12 | 9.0 | 99.92 | 1.04 | 0.60 | 0.04 | 1.43 | 2.04 | 21.37 | 11.95 | 52.9 | 102 | 28.4 | 8.1 | 387 | 2.06 | 7.9 |
| AER22TS-4059 | Till | | | | 418 | 29 | 14 | 9 | 6.7 | 99.94 | 0.61 | 0.57 | <0.02 | <0.08 | 1.23 | 17.42 | 12.88 | 59.4 | 83 | 27.9 | 11.2 | 414 | 2.13 | 9.5 |
| AER22TS-4060 | Till | | | | 383 | 27 | 16 | 10 | 8.6 | 99.93 | 1.52 | 1.25 | <0.02 | 0.92 | 2.30 | 20.23 | 11.73 | 64.3 | 121 | 22.6 | 8.4 | 262 | 1.82 | 8.6 |
| AER22TS-4061 | Pulp | DUP | | | 411 | 37 | 13 | 11 | 7.8 | 99.93 | 0.64 | 0.61 | <0.02 | <0.08 | 3.07 | 25.84 | 13.12 | 66.9 | 108 | 27.0 | 8.3 | 311 | 3.13 | 14.8 |
| AER22TS-4062 | Till | | | | 398 | 34 | 12 | 11 | 8.2 | 99.93 | 1.14 | 1.08 | 0.03 | 0.13 | 1.03 | 20.32 | 13.74 | 62.4 | 91 | 29.5 | 12.1 | 423 | 2.80 | 10.9 |
| AER22TS-4063 | Till | | | | 411 | 26 | 6 | 8 | 6.9 | 99.94 | 1.20 | 0.58 | <0.02 | 2.20 | 1.01 | 14.52 | 10.65 | 57.6 | 100 | 22.2 | 9.9 | 422 | 2.04 | 9.6 |
| AER22TS-4064 | Till | | | | 375 | 26 | 14 | 9 | 7.7 | 99.94 | 1.22 | 0.87 | 0.03 | 1.17 | 0.89 | 16.39 | 10.70 | 57.2 | 92 | 21.7 | 8.7 | 294 | 1.95 | 7.8 |
| AER22TS-4065 | Till | | | | 361 | 28 | 9 | 9 | 8.0 | 99.93 | 0.96 | 0.67 | <0.02 | 1.00 | 1.04 | 17.07 | 10.89 | 62.6 | 98 | 20.4 | 9.2 | 308 | 2.16 | 10.1 |
| AER22TS-4066 | Rock | Pulp | | | 158 | 11 | 19 | 9 | 1.3 | 99.88 | 0.07 | 0.03 | <0.02 | 0.17 | 8.88 | 110.68 | 203.95 | 156.6 | 81 | 57.6 | 36.1 | 199 | 1.17 | 7.1 |
| AER22TS-4067 | Till | | | | 412 | 37 | 12 | 11 | 7.8 | 99.92 | 0.71 | 0.67 | 0.02 | <0.08 | 2.43 | 21.87 | 11.61 | 59.6 | 95 | 23.6 | 5.6 | 177 | 2.18 | 10.5 |
| AER22TS-4068 | Till | | | | 404 | 37 | 12 | 11 | 7.6 | 99.94 | 0.65 | 0.59 | 0.02 | 0.13 | 2.63 | 24.12 | 12.24 | 63.7 | 108 | 27.0 | 8.7 | 373 | 2.98 | 14.7 |
| AER22TS-4069 | Till | | | | 397 | 37 | 13 | 11 | 7.7 | 99.93 | 0.65 | 0.59 | 0.02 | 0.13 | 3.03 | 25.29 | 12.63 | 65.8 | 106 | 26.3 | 8.2 | 315 | 3.16 | 14.7 |
| AER22TS-4070 | Till | | | | 302 | 27 | 16 | 11 | 9.6 | 99.92 | 1.47 | 1.04 | 0.03 | 1.49 | 2.97 | 22.10 | 14.58 | 75.6 | 118 | 34.8 | 12.4 | 358 | 2.38 | 9.8 |



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| | Method | Analyte | Unit | MDL | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | | | |
|--------------|--------|---------|------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| | | | | | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W |
| | | | | | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm |
| | | | | | 0.1 | 0.2 | 0.1 | 0.5 | 0.01 | 0.02 | 0.02 | 1 | 0.01 | 0.001 | 0.5 | 0.5 | 0.01 | 0.5 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 |
| AER22TS-4041 | Pulp | DUP | | | 2.2 | 1.0 | 7.5 | 39.1 | 0.12 | 0.37 | 0.23 | 29 | 0.29 | 0.078 | 22.8 | 17.2 | 0.28 | 192.9 | 0.006 | 8 | 1.00 | 0.010 | 0.14 | <0.1 |
| AER22TS-4042 | Till | | | | 0.9 | 1.1 | 6.7 | 20.2 | 0.10 | 0.30 | 0.15 | 24 | 0.36 | 0.060 | 21.2 | 14.1 | 0.25 | 108.8 | 0.007 | 7 | 0.82 | 0.006 | 0.10 | <0.1 |
| AER22TS-4043 | Till | | | | 0.9 | 1.1 | 7.1 | 26.5 | 0.10 | 0.31 | 0.18 | 27 | 0.24 | 0.072 | 23.8 | 16.5 | 0.28 | 126.8 | 0.007 | 7 | 0.96 | 0.008 | 0.12 | <0.1 |
| AER22TS-4044 | Till | | | | 1.0 | 1.2 | 6.0 | 36.8 | 0.12 | 0.57 | 0.20 | 38 | 0.40 | 0.078 | 20.4 | 20.6 | 0.44 | 205.7 | 0.005 | 8 | 1.25 | 0.008 | 0.15 | <0.1 |
| AER22TS-4045 | Till | | | | 1.7 | 1.7 | 6.4 | 36.9 | 0.05 | 0.50 | 0.22 | 46 | 0.25 | 0.054 | 17.7 | 21.5 | 0.39 | 141.0 | 0.003 | 7 | 1.32 | 0.009 | 0.15 | <0.1 |
| AER22TS-4046 | Till | | | | 1.0 | 0.7 | 6.9 | 29.5 | 0.34 | 0.31 | 0.18 | 28 | 0.62 | 0.063 | 22.3 | 16.5 | 0.40 | 151.9 | 0.007 | 9 | 0.97 | 0.007 | 0.15 | <0.1 |
| AER22TS-4047 | Till | | | | 1.8 | 0.8 | 6.0 | 88.5 | 0.27 | 0.31 | 0.22 | 31 | 1.70 | 0.068 | 15.8 | 18.6 | 0.67 | 124.4 | 0.005 | 16 | 1.01 | 0.038 | 0.19 | <0.1 |
| AER22TS-4048 | Till | | | | 1.5 | 1.1 | 5.8 | 56.6 | 0.17 | 0.29 | 0.16 | 25 | 1.62 | 0.068 | 16.9 | 15.2 | 0.71 | 158.3 | 0.007 | 13 | 0.81 | 0.010 | 0.15 | <0.1 |
| AER22TS-4049 | Till | | | | 1.0 | 0.9 | 6.4 | 35.3 | 0.20 | 0.31 | 0.15 | 25 | 1.45 | 0.064 | 20.2 | 13.8 | 0.60 | 135.0 | 0.007 | 8 | 0.83 | 0.008 | 0.12 | <0.1 |
| AER22TS-4050 | Till | | | | 1.0 | 1.5 | 7.1 | 14.9 | 0.09 | 0.27 | 0.11 | 18 | 0.25 | 0.072 | 26.2 | 10.7 | 0.18 | 83.0 | 0.010 | 4 | 0.56 | 0.004 | 0.07 | <0.1 |
| AER22TS-4051 | Till | | | | 1.7 | 0.7 | 6.3 | 68.5 | 0.24 | 0.37 | 0.24 | 26 | 0.78 | 0.071 | 15.8 | 17.8 | 0.43 | 242.8 | 0.005 | 15 | 0.93 | 0.027 | 0.16 | <0.1 |
| AER22TS-4052 | Till | | | | 1.8 | 0.8 | 7.2 | 38.4 | 0.22 | 0.31 | 0.20 | 25 | 0.39 | 0.067 | 22.2 | 16.7 | 0.30 | 170.4 | 0.007 | 9 | 0.95 | 0.009 | 0.17 | <0.1 |
| AER22TS-4053 | Rock | Pulp | | | 0.4 | 34.1 | 2.6 | 27.2 | 0.44 | 0.19 | 0.13 | 21 | 0.51 | 0.046 | 21.7 | 26.4 | 0.41 | 52.3 | 0.061 | 1 | 0.70 | 0.081 | 0.11 | <0.1 |
| AER22TS-4054 | Till | | | | 2.1 | 1.4 | 7.0 | 35.9 | 0.11 | 0.56 | 0.23 | 24 | 0.26 | 0.073 | 20.7 | 15.5 | 0.24 | 207.7 | 0.005 | 6 | 0.76 | 0.010 | 0.13 | <0.1 |
| AER22TS-4055 | Till | | | | 2.2 | 1.7 | 7.1 | 35.4 | 0.12 | 0.54 | 0.24 | 24 | 0.27 | 0.071 | 21.5 | 15.6 | 0.24 | 181.6 | 0.005 | 6 | 0.78 | 0.011 | 0.13 | <0.1 |
| AER22TS-4056 | Till | | | | 0.7 | 1.1 | 5.3 | 28.3 | 0.09 | 0.34 | 0.14 | 22 | 1.47 | 0.060 | 16.4 | 13.0 | 0.83 | 89.5 | 0.005 | 7 | 0.65 | 0.007 | 0.11 | <0.1 |
| AER22TS-4057 | Till | | | | 0.9 | 1.4 | 6.1 | 42.2 | 0.24 | 0.47 | 0.18 | 27 | 1.74 | 0.060 | 18.6 | 16.1 | 0.57 | 157.8 | 0.006 | 9 | 0.87 | 0.007 | 0.14 | <0.1 |
| AER22TS-4058 | Till | | | | 1.3 | 3.2 | 5.7 | 49.9 | 0.13 | 0.53 | 0.17 | 32 | 1.13 | 0.058 | 17.7 | 26.0 | 0.54 | 144.1 | 0.007 | 9 | 0.98 | 0.010 | 0.14 | <0.1 |
| AER22TS-4059 | Till | | | | 0.8 | 1.3 | 6.0 | 26.2 | 0.20 | 0.39 | 0.19 | 21 | 0.31 | 0.058 | 19.3 | 13.9 | 0.26 | 132.5 | 0.004 | 8 | 0.73 | 0.006 | 0.12 | <0.1 |
| AER22TS-4060 | Till | | | | 2.0 | 1.5 | 5.2 | 42.1 | 0.29 | 0.49 | 0.21 | 23 | 0.98 | 0.059 | 13.9 | 14.7 | 0.40 | 120.9 | 0.006 | 9 | 0.68 | 0.009 | 0.15 | <0.1 |
| AER22TS-4061 | Pulp | DUP | | | 1.4 | 2.2 | 6.8 | 31.3 | 0.10 | 0.77 | 0.21 | 37 | 0.30 | 0.066 | 23.0 | 20.8 | 0.30 | 196.8 | 0.005 | 5 | 1.06 | 0.010 | 0.14 | <0.1 |
| AER22TS-4062 | Till | | | | 0.9 | 1.8 | 6.4 | 21.0 | 0.09 | 0.55 | 0.19 | 31 | 0.36 | 0.060 | 22.5 | 19.5 | 0.34 | 109.2 | 0.005 | 7 | 1.02 | 0.006 | 0.14 | <0.1 |
| AER22TS-4063 | Till | | | | 1.0 | 1.3 | 5.2 | 25.8 | 0.23 | 0.39 | 0.13 | 21 | 1.35 | 0.058 | 16.9 | 12.9 | 0.67 | 111.7 | 0.008 | 8 | 0.64 | 0.006 | 0.12 | <0.1 |
| AER22TS-4064 | Till | | | | 1.0 | 1.2 | 5.3 | 35.5 | 0.16 | 0.36 | 0.17 | 24 | 0.99 | 0.051 | 17.1 | 15.2 | 0.51 | 133.8 | 0.006 | 9 | 0.80 | 0.008 | 0.13 | <0.1 |
| AER22TS-4065 | Till | | | | 1.0 | 1.2 | 4.7 | 57.4 | 0.20 | 0.39 | 0.16 | 20 | 1.49 | 0.054 | 13.9 | 13.2 | 0.49 | 127.4 | 0.006 | 10 | 0.70 | 0.009 | 0.13 | <0.1 |
| AER22TS-4066 | Rock | Pulp | | | 0.3 | 31.2 | 2.2 | 24.1 | 0.36 | 0.15 | 0.11 | 17 | 0.43 | 0.039 | 18.8 | 23.0 | 0.34 | 44.7 | 0.051 | 1 | 0.60 | 0.073 | 0.09 | <0.1 |
| AER22TS-4067 | Till | | | | 1.3 | 1.8 | 6.9 | 29.6 | 0.09 | 0.72 | 0.21 | 33 | 0.29 | 0.055 | 23.5 | 17.0 | 0.28 | 179.7 | 0.004 | 5 | 0.94 | 0.010 | 0.12 | <0.1 |
| AER22TS-4068 | Till | | | | 1.3 | 2.3 | 6.6 | 29.2 | 0.11 | 0.75 | 0.21 | 34 | 0.30 | 0.068 | 22.6 | 18.7 | 0.28 | 228.1 | 0.005 | 5 | 1.00 | 0.008 | 0.13 | <0.1 |
| AER22TS-4069 | Till | | | | 1.3 | 2.4 | 6.7 | 31.1 | 0.11 | 0.75 | 0.21 | 36 | 0.31 | 0.066 | 22.7 | 19.8 | 0.30 | 194.3 | 0.005 | 5 | 1.07 | 0.010 | 0.14 | <0.1 |
| AER22TS-4070 | Till | | | | 1.4 | 1.5 | 6.6 | 48.1 | 0.35 | 0.49 | 0.22 | 33 | 1.12 | 0.066 | 19.3 | 27.4 | 0.61 | 196.1 | 0.005 | 12 | 1.08 | 0.009 | 0.20 | <0.1 |



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Project: AER
Report Date: March 07, 2023

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CERTIFICATE OF ANALYSIS

VAN22003159.1

| Method Analyte Unit MDL | | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|----------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Sc | Ti | S | Hg | Se | Te | Ga | Cs | Ge | Hf | Nb | Rb | Sn | Ta | Zr | Y | Ce | In | Re | Be |
| | | ppm | ppm | % | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppb | ppm |
| | | 0.1 | 0.02 | 0.02 | 5 | 0.1 | 0.02 | 0.1 | 0.02 | 0.1 | 0.02 | 0.02 | 0.1 | 0.1 | 0.05 | 0.1 | 0.01 | 0.1 | 0.02 | 1 | 0.1 |
| AER22TS-4041 | Pulp DUP | 3.9 | 0.25 | <0.02 | 50 | 1.1 | 0.05 | 3.4 | 1.36 | <0.1 | 0.17 | 0.14 | 17.1 | 0.6 | <0.05 | 9.3 | 17.07 | 48.1 | 0.03 | 4 | 0.8 |
| AER22TS-4042 | Till | 3.5 | 0.20 | <0.02 | 63 | 0.4 | 0.05 | 2.8 | 1.00 | <0.1 | 0.13 | 0.10 | 10.1 | 0.5 | <0.05 | 8.8 | 15.42 | 44.4 | 0.02 | <1 | 0.7 |
| AER22TS-4043 | Till | 3.9 | 0.17 | <0.02 | 57 | 0.4 | 0.05 | 3.3 | 1.20 | <0.1 | 0.15 | 0.08 | 13.6 | 0.6 | <0.05 | 9.1 | 18.11 | 48.4 | 0.03 | <1 | 0.8 |
| AER22TS-4044 | Till | 5.0 | 0.21 | <0.02 | 92 | 0.5 | 0.07 | 4.1 | 1.58 | <0.1 | 0.16 | 0.16 | 17.9 | 0.6 | <0.05 | 10.5 | 21.37 | 39.2 | 0.03 | 3 | 0.9 |
| AER22TS-4045 | Till | 5.4 | 0.20 | <0.02 | 74 | 1.0 | 0.07 | 4.2 | 1.62 | <0.1 | 0.14 | 0.11 | 18.2 | 0.7 | <0.05 | 9.2 | 15.84 | 38.1 | 0.04 | 1 | 0.9 |
| AER22TS-4046 | Till | 3.6 | 0.22 | <0.02 | 40 | 0.4 | 0.04 | 3.3 | 1.15 | <0.1 | 0.19 | 0.09 | 17.3 | 0.7 | <0.05 | 10.8 | 14.84 | 49.6 | 0.03 | 1 | 0.7 |
| AER22TS-4047 | Till | 3.9 | 0.18 | 1.11 | 54 | 1.0 | 0.06 | 3.7 | 1.24 | <0.1 | 0.24 | 0.09 | 17.7 | 0.8 | <0.05 | 12.5 | 13.66 | 32.6 | 0.03 | 8 | 0.7 |
| AER22TS-4048 | Till | 3.2 | 0.20 | 0.13 | 46 | 0.4 | 0.05 | 2.8 | 1.07 | <0.1 | 0.17 | 0.09 | 14.2 | 0.6 | <0.05 | 9.4 | 12.51 | 36.3 | 0.02 | 2 | 0.6 |
| AER22TS-4049 | Till | 3.0 | 0.21 | <0.02 | 43 | 0.3 | 0.04 | 2.7 | 0.99 | <0.1 | 0.16 | 0.08 | 11.5 | 0.5 | <0.05 | 9.6 | 13.46 | 43.3 | 0.02 | <1 | 0.6 |
| AER22TS-4050 | Till | 2.7 | 0.15 | <0.02 | 72 | 0.4 | 0.04 | 1.8 | 0.61 | <0.1 | 0.12 | 0.14 | 7.2 | 0.3 | <0.05 | 8.2 | 18.53 | 46.8 | <0.02 | <1 | 0.4 |
| AER22TS-4051 | Till | 3.7 | 0.15 | 0.75 | 68 | 0.9 | 0.06 | 3.3 | 1.55 | <0.1 | 0.22 | 0.07 | 18.1 | 0.9 | <0.05 | 10.7 | 14.23 | 33.1 | 0.03 | 4 | 0.7 |
| AER22TS-4052 | Till | 3.4 | 0.19 | <0.02 | 47 | 1.1 | 0.04 | 3.1 | 1.08 | <0.1 | 0.18 | 0.13 | 17.3 | 1.0 | <0.05 | 9.9 | 14.33 | 46.2 | 0.03 | 4 | 0.8 |
| AER22TS-4053 | Rock Pulp | 2.4 | 0.07 | 0.03 | 11 | 0.1 | 0.02 | 2.2 | 0.97 | <0.1 | 0.15 | 0.40 | 6.0 | 2.0 | <0.05 | 5.0 | 4.63 | 36.7 | 0.03 | <1 | 0.2 |
| AER22TS-4054 | Till | 3.4 | 0.28 | <0.02 | 54 | 1.2 | 0.08 | 2.8 | 1.48 | <0.1 | 0.14 | 0.16 | 15.5 | 0.7 | <0.05 | 7.6 | 15.84 | 44.8 | 0.03 | 4 | 0.7 |
| AER22TS-4055 | Till | 3.4 | 0.29 | <0.02 | 49 | 1.1 | 0.06 | 2.9 | 1.53 | <0.1 | 0.15 | 0.15 | 15.5 | 0.6 | <0.05 | 7.9 | 16.00 | 45.0 | 0.03 | 5 | 0.8 |
| AER22TS-4056 | Till | 2.9 | 0.13 | <0.02 | 46 | 0.3 | 0.04 | 2.4 | 1.01 | <0.1 | 0.16 | 0.09 | 9.3 | 0.4 | <0.05 | 8.6 | 10.75 | 33.8 | 0.02 | <1 | 0.5 |
| AER22TS-4057 | Till | 3.4 | 0.23 | <0.02 | 38 | 0.4 | 0.07 | 3.0 | 1.28 | <0.1 | 0.16 | 0.11 | 14.1 | 0.5 | <0.05 | 9.7 | 13.27 | 39.1 | 0.02 | <1 | 0.7 |
| AER22TS-4058 | Till | 3.7 | 0.23 | 0.02 | 41 | 0.5 | 0.06 | 3.4 | 1.25 | <0.1 | 0.15 | 0.15 | 14.1 | 2.4 | <0.05 | 8.7 | 12.51 | 35.1 | 0.03 | 2 | 0.7 |
| AER22TS-4059 | Till | 3.1 | 0.21 | <0.02 | 40 | 0.3 | 0.06 | 2.6 | 1.30 | <0.1 | 0.12 | 0.10 | 12.4 | 0.5 | <0.05 | 7.1 | 13.35 | 41.2 | 0.02 | <1 | 0.6 |
| AER22TS-4060 | Till | 2.8 | 0.28 | 1.00 | 44 | 1.1 | 0.06 | 2.6 | 1.28 | <0.1 | 0.23 | 0.14 | 14.8 | 0.6 | <0.05 | 11.5 | 11.89 | 28.9 | 0.02 | 10 | 0.5 |
| AER22TS-4061 | Pulp DUP | 4.5 | 0.35 | 0.04 | 100 | 0.5 | 0.08 | 3.6 | 1.46 | <0.1 | 0.10 | 0.12 | 15.2 | 0.9 | <0.05 | 7.2 | 21.01 | 41.9 | 0.03 | <1 | 0.9 |
| AER22TS-4062 | Till | 4.3 | 0.20 | <0.02 | 63 | 0.6 | 0.05 | 3.5 | 1.30 | <0.1 | 0.10 | 0.13 | 13.8 | 0.7 | <0.05 | 7.5 | 17.23 | 46.4 | 0.03 | <1 | 0.8 |
| AER22TS-4063 | Till | 2.7 | 0.20 | <0.02 | 42 | 0.3 | 0.05 | 2.3 | 0.98 | <0.1 | 0.17 | 0.13 | 10.8 | 0.4 | <0.05 | 9.0 | 11.14 | 36.8 | <0.02 | 1 | 0.5 |
| AER22TS-4064 | Till | 3.1 | 0.18 | 0.05 | 40 | 0.4 | 0.04 | 2.8 | 1.24 | <0.1 | 0.11 | 0.13 | 14.4 | 0.5 | <0.05 | 7.2 | 12.10 | 37.8 | 0.02 | 1 | 0.6 |
| AER22TS-4065 | Till | 2.8 | 0.21 | 0.69 | 39 | 0.4 | 0.05 | 2.5 | 1.18 | <0.1 | 0.17 | 0.11 | 13.4 | 0.5 | <0.05 | 9.1 | 11.64 | 30.3 | 0.02 | 2 | 0.5 |
| AER22TS-4066 | Rock Pulp | 2.1 | 0.06 | 0.02 | 14 | <0.1 | <0.02 | 2.0 | 0.85 | <0.1 | 0.13 | 0.35 | 5.1 | 1.7 | <0.05 | 4.2 | 3.88 | 31.7 | 0.03 | <1 | 0.1 |
| AER22TS-4067 | Till | 3.7 | 0.31 | <0.02 | 65 | 0.6 | 0.07 | 3.2 | 1.52 | <0.1 | 0.13 | 0.11 | 12.6 | 0.8 | <0.05 | 7.8 | 19.03 | 44.3 | 0.03 | 2 | 0.8 |
| AER22TS-4068 | Till | 4.2 | 0.33 | 0.04 | 90 | 0.6 | 0.06 | 3.3 | 1.38 | <0.1 | 0.10 | 0.12 | 14.2 | 0.6 | <0.05 | 7.0 | 20.34 | 41.9 | 0.03 | <1 | 0.8 |
| AER22TS-4069 | Till | 4.5 | 0.33 | 0.05 | 95 | 0.7 | 0.06 | 3.5 | 1.40 | <0.1 | 0.11 | 0.12 | 14.9 | 0.8 | <0.05 | 7.3 | 21.03 | 40.3 | 0.03 | <1 | 0.8 |
| AER22TS-4070 | Till | 4.2 | 0.33 | <0.02 | 49 | 0.7 | 0.06 | 3.7 | 1.59 | <0.1 | 0.17 | 0.12 | 19.7 | 2.3 | <0.05 | 9.0 | 13.71 | 39.9 | 0.03 | 6 | 0.7 |



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CERTIFICATE OF ANALYSIS

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| Method Analyte Unit MDL | | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|----------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Li | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu | Pd | Pt |
| | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppb | ppb |
| | | 0.1 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 10 | 2 |
| AER22TS-4041 | Pulp DUP | 11.0 | 6.11 | 23.67 | 4.81 | 0.94 | 4.31 | 0.58 | 3.29 | 0.59 | 1.63 | 0.21 | 1.30 | 0.18 | <10 | <2 |
| AER22TS-4042 | Till | 8.5 | 5.73 | 22.20 | 4.38 | 0.83 | 3.84 | 0.50 | 2.85 | 0.52 | 1.44 | 0.19 | 1.23 | 0.19 | <10 | <2 |
| AER22TS-4043 | Till | 10.0 | 6.23 | 24.26 | 4.83 | 0.94 | 4.27 | 0.57 | 3.25 | 0.59 | 1.61 | 0.21 | 1.28 | 0.18 | <10 | <2 |
| AER22TS-4044 | Till | 16.0 | 5.44 | 21.17 | 4.47 | 0.99 | 4.46 | 0.61 | 3.49 | 0.65 | 1.78 | 0.23 | 1.42 | 0.21 | <10 | <2 |
| AER22TS-4045 | Till | 18.6 | 5.44 | 22.37 | 5.21 | 1.12 | 4.80 | 0.65 | 3.73 | 0.65 | 1.74 | 0.22 | 1.38 | 0.19 | <10 | <2 |
| AER22TS-4046 | Till | 10.9 | 5.84 | 22.13 | 4.34 | 0.82 | 3.77 | 0.50 | 2.84 | 0.50 | 1.37 | 0.17 | 1.07 | 0.15 | <10 | <2 |
| AER22TS-4047 | Till | 18.2 | 4.23 | 16.72 | 3.54 | 0.73 | 3.26 | 0.45 | 2.60 | 0.47 | 1.25 | 0.16 | 0.98 | 0.14 | <10 | <2 |
| AER22TS-4048 | Till | 11.9 | 4.45 | 17.31 | 3.46 | 0.66 | 3.11 | 0.42 | 2.40 | 0.43 | 1.15 | 0.15 | 0.91 | 0.13 | <10 | <2 |
| AER22TS-4049 | Till | 9.1 | 5.23 | 20.19 | 3.96 | 0.72 | 3.39 | 0.45 | 2.53 | 0.45 | 1.23 | 0.16 | 0.94 | 0.13 | <10 | <2 |
| AER22TS-4050 | Till | 5.4 | 7.04 | 28.53 | 5.37 | 0.96 | 4.67 | 0.59 | 3.33 | 0.62 | 1.69 | 0.22 | 1.39 | 0.20 | <10 | <2 |
| AER22TS-4051 | Till | 16.6 | 4.27 | 16.99 | 3.60 | 0.75 | 3.39 | 0.46 | 2.70 | 0.49 | 1.30 | 0.17 | 1.01 | 0.14 | <10 | <2 |
| AER22TS-4052 | Till | 10.9 | 5.77 | 22.19 | 4.30 | 0.80 | 3.70 | 0.49 | 2.78 | 0.50 | 1.35 | 0.18 | 1.08 | 0.15 | <10 | <2 |
| AER22TS-4053 | Rock Pulp | 7.0 | 4.42 | 14.75 | 2.17 | 0.47 | 1.44 | 0.18 | 0.96 | 0.16 | 0.45 | 0.06 | 0.37 | 0.05 | 37 | 22 |
| AER22TS-4054 | Till | 9.5 | 5.54 | 21.32 | 4.44 | 0.89 | 4.06 | 0.56 | 3.16 | 0.56 | 1.54 | 0.20 | 1.25 | 0.18 | <10 | <2 |
| AER22TS-4055 | Till | 9.5 | 5.80 | 22.02 | 4.55 | 0.91 | 4.15 | 0.57 | 3.20 | 0.58 | 1.58 | 0.20 | 1.26 | 0.18 | <10 | <2 |
| AER22TS-4056 | Till | 9.3 | 4.22 | 16.87 | 3.41 | 0.66 | 2.98 | 0.40 | 2.23 | 0.40 | 1.06 | 0.14 | 0.84 | 0.12 | <10 | <2 |
| AER22TS-4057 | Till | 11.3 | 4.77 | 18.84 | 3.76 | 0.75 | 3.38 | 0.46 | 2.55 | 0.46 | 1.23 | 0.16 | 0.99 | 0.14 | <10 | <2 |
| AER22TS-4058 | Till | 13.9 | 4.42 | 17.53 | 3.57 | 0.70 | 3.20 | 0.44 | 2.42 | 0.44 | 1.18 | 0.15 | 0.96 | 0.13 | <10 | <2 |
| AER22TS-4059 | Till | 8.9 | 5.06 | 19.47 | 3.94 | 0.76 | 3.44 | 0.48 | 2.65 | 0.47 | 1.27 | 0.17 | 1.04 | 0.15 | <10 | <2 |
| AER22TS-4060 | Till | 12.9 | 3.58 | 14.53 | 3.10 | 0.65 | 2.95 | 0.41 | 2.32 | 0.42 | 1.11 | 0.14 | 0.87 | 0.12 | <10 | <2 |
| AER22TS-4061 | Pulp DUP | 10.4 | 6.35 | 24.77 | 5.26 | 1.10 | 5.10 | 0.69 | 3.95 | 0.74 | 2.03 | 0.27 | 1.68 | 0.24 | <10 | <2 |
| AER22TS-4062 | Till | 11.7 | 6.00 | 23.48 | 4.80 | 0.97 | 4.32 | 0.59 | 3.26 | 0.60 | 1.61 | 0.21 | 1.30 | 0.19 | <10 | <2 |
| AER22TS-4063 | Till | 9.1 | 4.25 | 16.85 | 3.39 | 0.65 | 2.96 | 0.40 | 2.18 | 0.39 | 1.05 | 0.13 | 0.83 | 0.12 | <10 | <2 |
| AER22TS-4064 | Till | 13.7 | 4.36 | 17.33 | 3.51 | 0.69 | 3.12 | 0.43 | 2.36 | 0.43 | 1.13 | 0.14 | 0.90 | 0.12 | <10 | <2 |
| AER22TS-4065 | Till | 11.3 | 3.65 | 14.74 | 3.10 | 0.65 | 2.87 | 0.40 | 2.29 | 0.42 | 1.13 | 0.15 | 0.91 | 0.13 | <10 | <2 |
| AER22TS-4066 | Rock Pulp | 6.0 | 3.73 | 12.95 | 1.94 | 0.42 | 1.32 | 0.16 | 0.85 | 0.15 | 0.41 | 0.05 | 0.33 | 0.05 | 32 | 19 |
| AER22TS-4067 | Till | 9.4 | 6.34 | 24.04 | 4.98 | 1.00 | 4.61 | 0.64 | 3.56 | 0.66 | 1.81 | 0.24 | 1.50 | 0.21 | <10 | <2 |
| AER22TS-4068 | Till | 9.9 | 6.16 | 24.24 | 5.09 | 1.06 | 4.82 | 0.67 | 3.80 | 0.70 | 1.94 | 0.25 | 1.58 | 0.23 | <10 | <2 |
| AER22TS-4069 | Till | 10.3 | 6.22 | 24.36 | 5.14 | 1.07 | 4.92 | 0.68 | 3.82 | 0.71 | 1.96 | 0.26 | 1.62 | 0.24 | <10 | <2 |
| AER22TS-4070 | Till | 14.7 | 5.11 | 19.28 | 3.93 | 0.79 | 3.54 | 0.49 | 2.73 | 0.48 | 1.31 | 0.17 | 1.03 | 0.14 | <10 | <2 |



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CERTIFICATE OF ANALYSIS

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| | | Method | WGHT | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 |
|--------------|-----------|---------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Analyte | Wgt | Ba | Be | Co | Cs | Ga | Hf | Nb | Rb | Sn | Sr | Ta | Th | U | V | W | Zr | Y | La | Ce |
| | | Unit | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | | MDL | 0.01 | 1 | 1 | 0.2 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 1 | 0.5 | 0.1 | 0.2 | 0.1 | 8 | 0.5 | 0.1 | 0.1 | 0.1 | 0.1 |
| AER22TS-4071 | Till | | 1.68 | 694 | 4 | 13.2 | 5.4 | 15.6 | 8.3 | 12.9 | 86.9 | 2 | 113.6 | 0.9 | 11.5 | 3.7 | 136 | 1.4 | 313.5 | 31.4 | 39.1 | 78.7 |
| AER22TS-4072 | Till | | 1.75 | 727 | 1 | 13.7 | 4.3 | 13.4 | 7.3 | 11.5 | 70.3 | 1 | 135.4 | 0.7 | 8.9 | 2.8 | 123 | 1.5 | 283.4 | 25.4 | 29.4 | 60.6 |
| AER22TS-4073 | Till | | 1.69 | 657 | 1 | 19.3 | 4.5 | 13.3 | 8.0 | 13.0 | 77.8 | 1 | 116.0 | 0.8 | 10.2 | 3.3 | 138 | 1.2 | 316.7 | 27.3 | 34.7 | 73.3 |
| AER22TS-4074 | Till | | 1.74 | 666 | 3 | 17.5 | 4.2 | 15.2 | 7.9 | 11.5 | 70.5 | 2 | 124.3 | 0.8 | 9.5 | 2.9 | 123 | 1.8 | 292.7 | 25.8 | 32.9 | 66.5 |
| AER22TS-4075 | Till | | 1.89 | 660 | 1 | 13.2 | 4.4 | 14.0 | 7.7 | 11.5 | 81.6 | 2 | 169.3 | 0.8 | 10.0 | 3.6 | 118 | 1.3 | 299.1 | 25.7 | 33.6 | 68.4 |
| AER22TS-4076 | Till | | 1.63 | 627 | <1 | 9.0 | 5.0 | 14.6 | 9.1 | 13.0 | 75.5 | 2 | 123.5 | 1.0 | 12.1 | 3.6 | 128 | 1.3 | 355.6 | 44.5 | 51.5 | 92.8 |
| AER22TS-4077 | Till | | 2.04 | 578 | <1 | 16.8 | 4.8 | 14.2 | 7.7 | 14.5 | 82.2 | 2 | 148.4 | 1.0 | 10.0 | 4.5 | 135 | 1.2 | 307.2 | 28.1 | 32.7 | 67.8 |
| AER22TS-4078 | Till | | 1.59 | 678 | <1 | 10.6 | 4.8 | 13.6 | 10.1 | 13.7 | 71.1 | 2 | 124.9 | 1.0 | 12.7 | 4.9 | 150 | 2.1 | 399.8 | 47.9 | 49.2 | 96.7 |
| AER22TS-4079 | Till | | 1.58 | 805 | <1 | 8.6 | 4.7 | 13.4 | 9.8 | 12.8 | 70.7 | 1 | 130.2 | 0.8 | 10.9 | 5.1 | 123 | 1.8 | 380.1 | 42.4 | 46.3 | 99.4 |
| AER22TS-4080 | Till | | 1.72 | 620 | 6 | 12.7 | 4.9 | 13.9 | 8.7 | 13.0 | 84.5 | 2 | 133.9 | 1.0 | 10.9 | 3.1 | 124 | 1.9 | 346.6 | 28.2 | 35.0 | 70.8 |
| AER22TS-4081 | Pulp DUP | | | 659 | 3 | 8.8 | 4.2 | 14.6 | 8.9 | 12.6 | 69.4 | 2 | 128.0 | 1.0 | 11.1 | 3.6 | 134 | 1.3 | 354.3 | 33.1 | 38.1 | 74.3 |
| AER22TS-4082 | Till | | 1.45 | 593 | <1 | 9.2 | 4.7 | 15.7 | 9.2 | 12.9 | 85.0 | 1 | 122.1 | 0.9 | 11.7 | 4.1 | 144 | 1.4 | 365.9 | 38.5 | 39.7 | 74.6 |
| AER22TS-4083 | Till | | 1.81 | 571 | 5 | 12.1 | 4.4 | 13.6 | 9.6 | 13.0 | 80.6 | 2 | 109.8 | 0.8 | 10.1 | 3.2 | 116 | 1.4 | 379.5 | 26.5 | 35.7 | 72.2 |
| AER22TS-4084 | Till | | 1.66 | 519 | 3 | 11.1 | 5.0 | 14.8 | 9.1 | 13.0 | 82.3 | 4 | 114.3 | 0.9 | 10.6 | 3.2 | 118 | 1.2 | 353.5 | 29.4 | 37.0 | 70.5 |
| AER22TS-4085 | Till | | 1.32 | 558 | 3 | 11.9 | 4.6 | 16.7 | 6.3 | 14.6 | 52.3 | 1 | 107.2 | 1.0 | 8.6 | 3.0 | 125 | 1.6 | 246.8 | 25.1 | 29.4 | 56.3 |
| AER22TS-4086 | Till | | 1.13 | 834 | 3 | 21.2 | 3.8 | 15.6 | 4.9 | 11.3 | 60.5 | 1 | 157.6 | 0.8 | 7.1 | 2.8 | 130 | 1.2 | 206.1 | 24.0 | 25.5 | 57.4 |
| AER22TS-4087 | Till | | 1.42 | 626 | <1 | 11.0 | 4.4 | 16.5 | 7.0 | 10.9 | 63.0 | 2 | 124.9 | 0.8 | 9.2 | 3.2 | 124 | 1.6 | 276.2 | 28.0 | 31.4 | 61.4 |
| AER22TS-4088 | Till | | 2.02 | 619 | <1 | 12.2 | 4.8 | 13.5 | 10.5 | 13.6 | 74.6 | 1 | 116.4 | 1.0 | 11.8 | 3.2 | 114 | 1.4 | 410.0 | 31.2 | 38.2 | 77.0 |
| AER22TS-4089 | Till | | 1.69 | 953 | <1 | 13.9 | 3.5 | 14.6 | 5.4 | 9.7 | 60.2 | 1 | 159.2 | 0.7 | 7.2 | 2.3 | 126 | 1.5 | 213.9 | 22.1 | 26.8 | 55.0 |
| AER22TS-4090 | Till | | 1.89 | 524 | 2 | 10.4 | 4.2 | 13.5 | 8.3 | 11.9 | 68.4 | 1 | 136.8 | 0.8 | 10.6 | 3.0 | 120 | 1.3 | 320.1 | 27.7 | 36.8 | 71.2 |
| AER22TS-4091 | Till | | 1.41 | 743 | 2 | 11.7 | 4.2 | 15.1 | 5.6 | 9.0 | 61.9 | 1 | 149.9 | 0.7 | 8.6 | 2.7 | 143 | 1.1 | 209.3 | 25.0 | 27.4 | 54.8 |
| AER22TS-4092 | Till | | 1.61 | 667 | <1 | 7.9 | 3.7 | 13.0 | 8.6 | 10.9 | 60.5 | 2 | 128.7 | 0.7 | 11.1 | 3.9 | 117 | 1.5 | 324.4 | 32.0 | 38.8 | 77.2 |
| AER22TS-4093 | Till | | 2.12 | 621 | 3 | 8.6 | 3.8 | 12.7 | 8.4 | 11.8 | 62.2 | 1 | 128.2 | 0.8 | 11.8 | 3.5 | 119 | 1.2 | 312.4 | 33.0 | 37.4 | 78.0 |
| AER22TS-4094 | Till | | 1.91 | 542 | 1 | 10.3 | 4.1 | 14.4 | 9.9 | 13.8 | 72.2 | 2 | 107.5 | 0.9 | 11.3 | 2.9 | 119 | 1.0 | 405.5 | 32.1 | 41.6 | 79.5 |
| AER22TS-4095 | Till | | 1.55 | 625 | 1 | 11.0 | 4.3 | 12.8 | 9.9 | 13.4 | 75.8 | 2 | 120.2 | 0.8 | 12.0 | 3.6 | 121 | 1.6 | 366.3 | 31.5 | 40.1 | 79.9 |
| AER22TS-4096 | Till | | 1.75 | 578 | <1 | 7.5 | 4.6 | 12.5 | 7.7 | 13.7 | 74.1 | 2 | 98.6 | 1.1 | 11.5 | 4.3 | 114 | 1.4 | 282.5 | 26.0 | 37.7 | 78.2 |
| AER22TS-4097 | Till | | 1.60 | 815 | 5 | 9.4 | 4.4 | 13.0 | 7.8 | 12.7 | 65.3 | 2 | 197.4 | 1.0 | 11.8 | 4.9 | 117 | 2.9 | 286.3 | 30.1 | 39.1 | 76.5 |
| AER22TS-4098 | Rock Pulp | | 0.07 | 444 | 5 | 48.9 | 1.8 | 11.4 | 4.1 | 15.3 | 34.5 | 7 | 385.7 | 0.4 | 3.6 | 0.7 | 54 | <0.5 | 152.7 | 10.4 | 30.7 | 56.4 |
| AER22TS-4099 | Till | | 1.60 | 691 | <1 | 13.6 | 4.1 | 13.5 | 8.5 | 10.9 | 63.3 | 2 | 154.0 | 0.7 | 10.4 | 3.2 | 119 | 0.9 | 308.2 | 29.4 | 33.5 | 68.8 |
| AER22TS-4100 | Till | | 1.81 | 553 | 3 | 10.8 | 4.1 | 12.3 | 8.9 | 12.4 | 70.7 | 2 | 118.9 | 0.8 | 10.8 | 2.9 | 102 | 1.4 | 355.1 | 28.3 | 35.9 | 72.8 |



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CERTIFICATE OF ANALYSIS

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| | Method Analyte Unit MDL | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |
|--------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu | Mo | Cu | Pb | Zn | Ni | As | Cd | Sb |
| | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | | 0.02 | 0.3 | 0.05 | 0.02 | 0.05 | 0.01 | 0.05 | 0.02 | 0.03 | 0.01 | 0.05 | 0.01 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.5 | 0.1 | 0.1 |
| AER22TS-4071 | Till | 8.85 | 33.0 | 6.39 | 1.26 | 6.05 | 0.91 | 5.28 | 1.07 | 3.23 | 0.47 | 3.00 | 0.47 | 2.6 | 25.3 | 14.8 | 84 | 34.5 | 12.0 | 0.3 | 0.3 |
| AER22TS-4072 | Till | 6.90 | 24.7 | 5.30 | 1.08 | 4.76 | 0.72 | 4.20 | 0.89 | 2.72 | 0.39 | 2.60 | 0.39 | 1.6 | 29.1 | 12.7 | 83 | 33.0 | 11.4 | 0.2 | 0.3 |
| AER22TS-4073 | Till | 7.85 | 29.0 | 5.77 | 1.16 | 5.61 | 0.86 | 4.80 | 1.02 | 2.87 | 0.42 | 2.84 | 0.45 | 2.4 | 27.6 | 15.7 | 90 | 34.9 | 13.2 | 0.3 | 0.3 |
| AER22TS-4074 | Till | 7.41 | 28.6 | 5.43 | 1.12 | 4.87 | 0.77 | 4.46 | 0.90 | 2.73 | 0.40 | 2.54 | 0.41 | 1.6 | 30.3 | 15.0 | 88 | 42.5 | 11.5 | 0.3 | 0.4 |
| AER22TS-4075 | Till | 7.61 | 28.7 | 5.50 | 1.11 | 5.19 | 0.74 | 4.52 | 0.94 | 2.94 | 0.40 | 2.71 | 0.43 | 1.1 | 25.4 | 10.5 | 80 | 29.1 | 8.9 | 0.3 | 0.4 |
| AER22TS-4076 | Till | 12.58 | 47.7 | 9.25 | 2.13 | 9.68 | 1.40 | 8.28 | 1.64 | 4.68 | 0.67 | 4.47 | 0.66 | 1.3 | 25.3 | 12.8 | 54 | 25.7 | 10.6 | <0.1 | 0.2 |
| AER22TS-4077 | Till | 7.52 | 28.1 | 5.15 | 1.10 | 5.24 | 0.79 | 4.66 | 0.97 | 3.02 | 0.41 | 2.84 | 0.44 | 2.5 | 23.0 | 13.2 | 82 | 38.0 | 11.2 | 0.6 | 0.4 |
| AER22TS-4078 | Till | 12.43 | 47.9 | 9.89 | 2.25 | 10.32 | 1.51 | 8.91 | 1.80 | 4.92 | 0.73 | 4.76 | 0.72 | 2.1 | 27.6 | 12.1 | 59 | 31.4 | 11.7 | <0.1 | 0.3 |
| AER22TS-4079 | Till | 11.96 | 48.1 | 9.63 | 2.13 | 9.60 | 1.42 | 8.16 | 1.67 | 4.67 | 0.66 | 4.33 | 0.65 | 1.3 | 25.1 | 12.1 | 53 | 26.3 | 9.9 | <0.1 | 0.3 |
| AER22TS-4080 | Till | 7.89 | 29.5 | 5.56 | 1.15 | 5.11 | 0.78 | 4.77 | 0.99 | 2.96 | 0.45 | 2.91 | 0.43 | 2.2 | 23.0 | 13.3 | 85 | 29.2 | 12.7 | 0.3 | 0.3 |
| AER22TS-4081 | Pulp DUP | 9.27 | 36.0 | 7.32 | 1.50 | 6.99 | 1.01 | 6.00 | 1.16 | 3.47 | 0.48 | 3.38 | 0.51 | 1.5 | 29.4 | 12.2 | 69 | 26.4 | 10.8 | <0.1 | 0.3 |
| AER22TS-4082 | Till | 9.27 | 35.0 | 7.23 | 1.54 | 6.87 | 1.03 | 6.06 | 1.24 | 3.70 | 0.52 | 3.50 | 0.59 | 1.4 | 33.3 | 13.9 | 77 | 39.8 | 12.1 | 0.1 | 0.3 |
| AER22TS-4083 | Till | 7.99 | 28.8 | 5.60 | 1.15 | 5.21 | 0.78 | 4.56 | 1.00 | 2.92 | 0.40 | 2.73 | 0.44 | 1.1 | 19.3 | 12.0 | 62 | 27.8 | 8.6 | 0.2 | 0.2 |
| AER22TS-4084 | Till | 8.34 | 31.2 | 6.08 | 1.28 | 5.63 | 0.82 | 4.89 | 1.01 | 3.03 | 0.43 | 2.88 | 0.44 | 1.7 | 21.2 | 15.8 | 68 | 33.1 | 10.0 | 0.1 | 0.2 |
| AER22TS-4085 | Till | 6.82 | 26.1 | 5.32 | 1.32 | 5.44 | 0.82 | 4.74 | 0.96 | 2.63 | 0.40 | 2.51 | 0.41 | 0.6 | 32.7 | 14.7 | 54 | 26.2 | 6.0 | <0.1 | 0.2 |
| AER22TS-4086 | Till | 6.24 | 23.9 | 5.30 | 1.38 | 5.04 | 0.77 | 4.58 | 0.93 | 2.50 | 0.37 | 2.38 | 0.37 | 0.8 | 46.1 | 15.2 | 82 | 51.8 | 11.0 | 0.4 | 0.4 |
| AER22TS-4087 | Till | 7.47 | 28.3 | 6.12 | 1.44 | 5.75 | 0.85 | 5.18 | 1.03 | 3.15 | 0.44 | 2.88 | 0.44 | 1.1 | 32.1 | 13.0 | 68 | 27.8 | 10.3 | <0.1 | 0.2 |
| AER22TS-4088 | Till | 8.79 | 33.5 | 5.87 | 1.28 | 5.54 | 0.88 | 5.23 | 1.07 | 3.18 | 0.47 | 3.02 | 0.47 | 1.0 | 21.0 | 13.3 | 70 | 29.3 | 10.4 | <0.1 | 0.2 |
| AER22TS-4089 | Till | 6.20 | 23.4 | 4.74 | 1.13 | 4.53 | 0.67 | 3.79 | 0.79 | 2.46 | 0.36 | 2.36 | 0.34 | 0.8 | 26.4 | 10.8 | 76 | 32.1 | 8.7 | 0.3 | 0.3 |
| AER22TS-4090 | Till | 8.22 | 30.2 | 5.75 | 1.30 | 5.59 | 0.88 | 5.23 | 1.06 | 3.17 | 0.45 | 3.14 | 0.46 | 0.9 | 22.7 | 12.7 | 64 | 27.2 | 10.2 | 0.1 | 0.2 |
| AER22TS-4091 | Till | 6.87 | 28.4 | 5.59 | 1.45 | 5.56 | 0.84 | 4.84 | 0.98 | 2.98 | 0.41 | 2.73 | 0.43 | 0.7 | 33.4 | 11.9 | 84 | 35.3 | 11.7 | <0.1 | 0.3 |
| AER22TS-4092 | Till | 9.39 | 37.3 | 7.30 | 1.61 | 6.95 | 1.04 | 6.06 | 1.27 | 3.55 | 0.49 | 3.53 | 0.51 | 1.3 | 26.2 | 10.9 | 60 | 23.4 | 9.6 | <0.1 | 0.3 |
| AER22TS-4093 | Till | 9.32 | 36.6 | 7.51 | 1.56 | 6.87 | 1.03 | 6.10 | 1.29 | 3.59 | 0.56 | 3.54 | 0.54 | 1.3 | 25.9 | 10.9 | 60 | 23.0 | 9.5 | <0.1 | 0.3 |
| AER22TS-4094 | Till | 9.54 | 35.3 | 6.49 | 1.36 | 6.21 | 0.89 | 5.32 | 1.12 | 3.19 | 0.45 | 3.12 | 0.50 | 1.7 | 19.3 | 11.3 | 57 | 22.7 | 7.4 | 0.2 | 0.3 |
| AER22TS-4095 | Till | 9.09 | 35.3 | 6.59 | 1.37 | 5.99 | 0.92 | 5.51 | 1.17 | 3.45 | 0.51 | 3.45 | 0.54 | 2.2 | 23.7 | 13.5 | 79 | 26.0 | 11.2 | 0.4 | 0.3 |
| AER22TS-4096 | Till | 8.43 | 31.2 | 6.02 | 1.21 | 5.16 | 0.80 | 5.07 | 0.94 | 2.98 | 0.42 | 2.56 | 0.40 | 1.5 | 25.5 | 12.8 | 59 | 19.4 | 8.9 | <0.1 | 0.2 |
| AER22TS-4097 | Till | 8.99 | 35.3 | 6.99 | 1.49 | 6.36 | 0.96 | 6.10 | 1.23 | 3.59 | 0.49 | 3.43 | 0.50 | 1.9 | 27.2 | 16.1 | 65 | 17.0 | 12.9 | <0.1 | 0.2 |
| AER22TS-4098 | Rock Pulp | 6.37 | 23.5 | 3.70 | 0.97 | 2.95 | 0.36 | 1.92 | 0.37 | 1.14 | 0.17 | 1.12 | 0.16 | 11.9 | 150.5 | 262.9 | 204 | 80.4 | 9.2 | 0.5 | 0.2 |
| AER22TS-4099 | Till | 7.74 | 31.8 | 6.19 | 1.33 | 6.05 | 0.89 | 5.64 | 1.14 | 3.38 | 0.49 | 3.35 | 0.48 | 1.4 | 25.3 | 12.9 | 68 | 27.8 | 10.5 | <0.1 | 0.3 |
| AER22TS-4100 | Till | 8.24 | 30.8 | 6.03 | 1.18 | 5.50 | 0.86 | 5.27 | 1.08 | 2.99 | 0.44 | 3.11 | 0.47 | 2.0 | 20.5 | 14.1 | 70 | 24.0 | 11.0 | 0.2 | 0.2 |



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CERTIFICATE OF ANALYSIS

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| Method Analyte Unit MDL | | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 |
|----------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Bi | Ag | Au | Hg | Tl | Se | SiO2 | Al2O3 | Fe2O3 | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | MnO | Cr2O3 | Ba | Ni | Sr |
| | | ppm | ppm | ppb | ppm | ppm | ppm | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm |
| | | 0.1 | 0.1 | 0.5 | 0.01 | 0.1 | 0.5 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.002 | 5 | 20 | 2 |
| AER22TS-4071 | Till | 0.2 | 0.1 | 1.4 | 0.06 | 0.3 | 0.8 | 67.40 | 12.48 | 5.39 | 1.17 | 0.79 | 0.62 | 2.06 | 0.69 | 0.21 | 0.06 | 0.011 | 675 | 37 | 113 |
| AER22TS-4072 | Till | 0.2 | 0.1 | 1.5 | 0.06 | 0.3 | <0.5 | 65.59 | 12.65 | 5.25 | 1.73 | 1.64 | 0.87 | 1.89 | 0.70 | 0.19 | 0.06 | 0.012 | 754 | 36 | 137 |
| AER22TS-4073 | Till | 0.2 | 0.1 | 1.7 | 0.07 | 0.4 | 0.6 | 69.28 | 11.99 | 5.38 | 1.13 | 0.82 | 0.75 | 2.06 | 0.71 | 0.20 | 0.07 | 0.011 | 699 | 38 | 120 |
| AER22TS-4074 | Till | 0.2 | <0.1 | 1.5 | 0.07 | 0.4 | <0.5 | 65.64 | 12.92 | 5.25 | 1.59 | 1.50 | 0.83 | 1.91 | 0.72 | 0.16 | 0.09 | 0.012 | 709 | 45 | 130 |
| AER22TS-4075 | Till | 0.2 | 0.1 | 1.4 | 0.04 | 0.2 | 0.9 | 65.24 | 12.34 | 4.61 | 2.12 | 2.54 | 1.10 | 2.28 | 0.70 | 0.17 | 0.08 | 0.011 | 694 | 35 | 172 |
| AER22TS-4076 | Till | 0.2 | <0.1 | 1.4 | 0.06 | 0.2 | 0.9 | 68.07 | 12.41 | 5.12 | 1.16 | 0.90 | 0.63 | 1.81 | 0.67 | 0.13 | 0.04 | 0.010 | 640 | 32 | 121 |
| AER22TS-4077 | Till | 0.2 | 0.1 | 1.0 | 0.05 | 0.4 | 1.2 | 64.65 | 11.54 | 4.28 | 1.71 | 3.75 | 0.70 | 2.04 | 0.66 | 0.17 | 0.08 | 0.010 | 605 | 43 | 147 |
| AER22TS-4078 | Till | 0.2 | 0.1 | 1.6 | 0.08 | 0.3 | 1.4 | 69.36 | 11.99 | 5.02 | 1.13 | 0.83 | 0.68 | 1.83 | 0.71 | 0.17 | 0.05 | 0.011 | 712 | 42 | 126 |
| AER22TS-4079 | Till | 0.2 | 0.1 | 1.5 | 0.07 | 0.3 | 1.5 | 69.70 | 11.77 | 4.80 | 1.08 | 0.85 | 0.68 | 1.76 | 0.68 | 0.14 | 0.04 | 0.010 | 821 | 29 | 130 |
| AER22TS-4080 | Till | 0.2 | 0.1 | 1.2 | 0.05 | 0.2 | 1.4 | 66.14 | 11.76 | 5.32 | 1.59 | 1.93 | 0.65 | 2.07 | 0.68 | 0.19 | 0.05 | 0.011 | 626 | 36 | 129 |
| AER22TS-4081 | Pulp DUP | 0.2 | <0.1 | 1.8 | 0.07 | 0.3 | 0.5 | 68.80 | 12.37 | 4.98 | 1.17 | 0.74 | 0.82 | 1.81 | 0.72 | 0.16 | 0.03 | 0.011 | 665 | 29 | 128 |
| AER22TS-4082 | Till | 0.2 | 0.1 | 2.0 | 0.08 | 0.3 | 0.5 | 66.21 | 12.64 | 5.95 | 1.35 | 0.97 | 0.67 | 1.90 | 0.70 | 0.19 | 0.04 | 0.012 | 630 | 44 | 122 |
| AER22TS-4083 | Till | 0.2 | <0.1 | 0.9 | 0.04 | 0.2 | 0.5 | 69.28 | 11.63 | 4.65 | 1.14 | 0.94 | 0.72 | 1.92 | 0.71 | 0.15 | 0.08 | 0.009 | 590 | 32 | 111 |
| AER22TS-4084 | Till | 0.2 | 0.1 | 1.3 | 0.05 | 0.2 | <0.5 | 67.84 | 12.79 | 5.39 | 1.16 | 0.78 | 0.66 | 2.06 | 0.73 | 0.17 | 0.06 | 0.011 | 569 | 42 | 115 |
| AER22TS-4085 | Till | 0.2 | <0.1 | 2.4 | 0.10 | 0.3 | <0.5 | 65.50 | 15.04 | 4.37 | 1.05 | 0.67 | 0.74 | 1.58 | 0.80 | 0.07 | 0.03 | 0.014 | 599 | 34 | 109 |
| AER22TS-4086 | Till | 0.2 | 0.1 | 2.9 | 0.10 | 0.3 | <0.5 | 61.87 | 15.00 | 5.05 | 1.43 | 1.15 | 1.20 | 1.75 | 0.76 | 0.13 | 0.13 | 0.015 | 879 | 60 | 159 |
| AER22TS-4087 | Till | 0.2 | <0.1 | 1.4 | 0.09 | 0.2 | 0.7 | 65.25 | 13.74 | 5.07 | 1.29 | 0.80 | 0.94 | 1.74 | 0.72 | 0.11 | 0.05 | 0.012 | 657 | 37 | 127 |
| AER22TS-4088 | Till | 0.2 | 0.1 | 1.1 | 0.06 | 0.2 | <0.5 | 69.62 | 11.90 | 5.15 | 1.08 | 0.81 | 0.67 | 1.94 | 0.72 | 0.18 | 0.05 | 0.009 | 673 | 38 | 119 |
| AER22TS-4089 | Till | 0.2 | 0.1 | 3.1 | 0.06 | 0.2 | <0.5 | 61.49 | 13.79 | 4.64 | 1.69 | 2.79 | 0.93 | 1.76 | 0.70 | 0.15 | 0.07 | 0.014 | 959 | 35 | 155 |
| AER22TS-4090 | Till | 0.2 | 0.1 | <0.5 | 0.04 | 0.2 | <0.5 | 67.68 | 12.71 | 5.51 | 1.19 | 0.85 | 0.70 | 1.97 | 0.71 | 0.16 | 0.06 | 0.011 | 537 | 35 | 141 |
| AER22TS-4091 | Till | 0.2 | <0.1 | <0.5 | 0.09 | 0.2 | 0.6 | 61.89 | 15.00 | 6.19 | 1.64 | 0.98 | 1.18 | 2.01 | 0.78 | 0.19 | 0.04 | 0.019 | 757 | 43 | 157 |
| AER22TS-4092 | Till | 0.2 | <0.1 | <0.5 | 0.07 | 0.3 | <0.5 | 69.28 | 12.18 | 4.86 | 1.16 | 0.76 | 0.88 | 1.82 | 0.72 | 0.17 | 0.03 | 0.013 | 698 | 29 | 132 |
| AER22TS-4093 | Till | 0.2 | <0.1 | <0.5 | 0.07 | 0.3 | 0.5 | 68.71 | 12.41 | 4.99 | 1.16 | 0.74 | 0.82 | 1.87 | 0.72 | 0.16 | 0.03 | 0.013 | 657 | 27 | 128 |
| AER22TS-4094 | Till | 0.2 | <0.1 | 1.2 | 0.04 | 0.3 | <0.5 | 70.57 | 11.51 | 4.64 | 1.16 | 1.19 | 0.65 | 1.87 | 0.71 | 0.16 | 0.05 | 0.012 | 563 | 30 | 116 |
| AER22TS-4095 | Till | 0.2 | 0.1 | 1.5 | 0.06 | 0.3 | <0.5 | 69.05 | 11.97 | 5.36 | 1.11 | 0.86 | 0.68 | 2.01 | 0.74 | 0.22 | 0.07 | 0.012 | 648 | 31 | 120 |
| AER22TS-4096 | Till | 0.2 | <0.1 | 2.0 | 0.07 | 0.3 | 1.0 | 70.06 | 12.58 | 4.64 | 1.07 | 0.35 | 0.60 | 1.94 | 0.79 | 0.12 | 0.02 | 0.012 | 609 | 21 | 104 |
| AER22TS-4097 | Till | 0.2 | <0.1 | 2.3 | 0.08 | 0.3 | 1.2 | 68.18 | 12.46 | 5.58 | 1.08 | 0.56 | 0.73 | 1.97 | 0.76 | 0.20 | 0.02 | 0.013 | 864 | 22 | 206 |
| AER22TS-4098 | Rock Pulp | 0.1 | 0.1 | 32.0 | 0.01 | <0.1 | <0.5 | 71.77 | 12.15 | 4.04 | 1.72 | 3.25 | 3.45 | 1.45 | 0.38 | 0.12 | 0.07 | 0.017 | 457 | 86 | 401 |
| AER22TS-4099 | Till | 0.2 | <0.1 | 1.4 | 0.06 | 0.3 | <0.5 | 67.14 | 12.91 | 5.11 | 1.29 | 0.84 | 0.86 | 1.89 | 0.72 | 0.16 | 0.05 | 0.014 | 677 | 29 | 154 |
| AER22TS-4100 | Till | 0.2 | <0.1 | 0.9 | 0.05 | 0.2 | <0.5 | 67.27 | 10.98 | 4.95 | 1.62 | 2.46 | 0.66 | 1.88 | 0.67 | 0.16 | 0.06 | 0.010 | 560 | 30 | 115 |



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| Method Analyte Unit MDL | | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | TC000 | TC005 | TC005 | TC006 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|----------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| | | Zr | Y | Nb | Sc | LOI | Sum | TOT/C | C/ORG | C/GRA | CO2 | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As |
| | | ppm | ppm | ppm | ppm | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppb | ppm | ppm | ppm | % | ppm |
| | | 5 | 3 | 5 | 1 | -5.1 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.1 | 2 | 0.1 | 0.1 | 1 | 0.01 | 0.1 |
| AER22TS-4071 | Till | 313 | 30 | 10 | 12 | 8.9 | 99.92 | 1.40 | 1.34 | 0.03 | 0.13 | 2.83 | 23.32 | 14.58 | 79.3 | 123 | 32.6 | 11.5 | 393 | 2.59 | 11.6 |
| AER22TS-4072 | Till | 301 | 26 | 6 | 12 | 9.2 | 99.93 | 0.91 | 0.62 | 0.02 | 0.99 | 1.86 | 26.61 | 12.11 | 75.3 | 108 | 30.5 | 12.2 | 360 | 2.54 | 10.4 |
| AER22TS-4073 | Till | 344 | 29 | 12 | 11 | 7.4 | 99.92 | 0.60 | 0.55 | <0.02 | 0.12 | 2.82 | 25.24 | 15.06 | 84.6 | 123 | 32.6 | 18.3 | 473 | 2.63 | 12.6 |
| AER22TS-4074 | Till | 300 | 28 | 12 | 12 | 9.2 | 99.93 | 0.80 | 0.58 | <0.02 | 0.72 | 1.94 | 26.86 | 14.33 | 79.8 | 96 | 38.6 | 16.3 | 588 | 2.41 | 10.9 |
| AER22TS-4075 | Till | 310 | 27 | 14 | 11 | 8.6 | 99.90 | 1.44 | 0.84 | 0.03 | 2.10 | 1.00 | 19.67 | 8.40 | 61.6 | 92 | 22.7 | 9.2 | 449 | 1.87 | 6.9 |
| AER22TS-4076 | Till | 346 | 44 | 7 | 13 | 8.8 | 99.92 | 0.61 | 0.57 | <0.02 | 0.10 | 1.55 | 23.35 | 12.35 | 50.3 | 76 | 24.2 | 7.6 | 207 | 2.53 | 10.3 |
| AER22TS-4077 | Till | 324 | 27 | 9 | 11 | 10.2 | 99.92 | 1.71 | 1.32 | 0.03 | 1.31 | 2.56 | 19.24 | 12.00 | 67.0 | 104 | 32.4 | 14.4 | 483 | 1.86 | 9.7 |
| AER22TS-4078 | Till | 396 | 51 | 6 | 11 | 8.0 | 99.92 | 0.60 | 0.56 | <0.02 | <0.08 | 2.56 | 25.77 | 12.12 | 57.0 | 100 | 29.7 | 8.7 | 296 | 2.44 | 11.3 |
| AER22TS-4079 | Till | 374 | 44 | 6 | 12 | 8.3 | 99.92 | 0.70 | 0.67 | <0.02 | <0.08 | 1.51 | 24.30 | 12.00 | 50.9 | 112 | 24.7 | 7.2 | 209 | 2.36 | 9.4 |
| AER22TS-4080 | Till | 325 | 28 | 14 | 11 | 9.4 | 99.91 | 1.58 | 1.17 | 0.03 | 1.41 | 2.47 | 21.30 | 12.54 | 79.3 | 132 | 27.1 | 10.6 | 303 | 2.54 | 11.9 |
| AER22TS-4081 | Pulp DUP | 344 | 33 | 13 | 12 | 8.2 | 99.93 | 0.65 | 0.61 | 0.02 | <0.08 | 1.73 | 26.34 | 11.45 | 63.0 | 69 | 24.1 | 7.4 | 200 | 2.43 | 10.0 |
| AER22TS-4082 | Till | 347 | 39 | 9 | 13 | 9.1 | 99.91 | 0.87 | 0.83 | 0.02 | <0.08 | 1.71 | 31.61 | 13.65 | 73.1 | 109 | 37.4 | 7.9 | 251 | 2.90 | 11.8 |
| AER22TS-4083 | Till | 359 | 29 | 12 | 10 | 8.6 | 99.94 | 1.33 | 1.23 | 0.02 | 0.25 | 1.33 | 17.44 | 11.56 | 56.9 | 91 | 25.8 | 11.1 | 497 | 2.23 | 8.3 |
| AER22TS-4084 | Till | 370 | 32 | 8 | 12 | 8.1 | 99.93 | 0.89 | 0.84 | 0.03 | 0.09 | 1.88 | 19.50 | 14.00 | 61.5 | 109 | 29.3 | 9.2 | 372 | 2.45 | 9.8 |
| AER22TS-4085 | Till | 261 | 25 | 7 | 14 | 10.0 | 99.93 | 0.58 | 0.53 | 0.03 | <0.08 | 1.02 | 30.52 | 14.50 | 51.6 | 87 | 24.6 | 9.5 | 182 | 1.57 | 6.3 |
| AER22TS-4086 | Till | 199 | 26 | 6 | 15 | 11.3 | 99.93 | 1.30 | 1.24 | 0.04 | <0.08 | 1.06 | 41.76 | 13.97 | 72.0 | 117 | 46.9 | 21.3 | 844 | 2.14 | 10.4 |
| AER22TS-4087 | Till | 267 | 31 | 9 | 13 | 10.1 | 99.94 | 1.02 | 0.96 | 0.04 | <0.08 | 1.51 | 31.11 | 12.67 | 65.4 | 64 | 27.1 | 10.3 | 318 | 2.30 | 10.3 |
| AER22TS-4088 | Till | 395 | 33 | 7 | 11 | 7.7 | 99.93 | 0.56 | 0.51 | 0.02 | 0.08 | 1.15 | 18.68 | 12.66 | 62.7 | 113 | 26.1 | 10.5 | 306 | 2.29 | 10.2 |
| AER22TS-4089 | Till | 228 | 23 | 10 | 13 | 11.7 | 99.94 | 1.53 | 1.13 | 0.02 | 1.38 | 0.95 | 25.76 | 10.88 | 73.9 | 91 | 29.9 | 13.6 | 480 | 2.02 | 8.3 |
| AER22TS-4090 | Till | 342 | 29 | 8 | 12 | 8.3 | 99.95 | 0.68 | 0.65 | <0.02 | <0.08 | 1.08 | 22.65 | 13.59 | 68.0 | 97 | 27.9 | 9.9 | 412 | 2.80 | 9.8 |
| AER22TS-4091 | Till | 247 | 27 | <5 | 15 | 9.9 | 99.93 | 0.69 | 0.66 | 0.02 | <0.08 | 0.82 | 33.71 | 12.14 | 88.7 | 71 | 35.5 | 11.3 | 277 | 3.17 | 11.3 |
| AER22TS-4092 | Till | 361 | 34 | 13 | 12 | 7.9 | 99.94 | 0.69 | 0.67 | <0.02 | <0.08 | 1.60 | 26.54 | 11.27 | 63.2 | 69 | 24.1 | 7.2 | 202 | 2.39 | 9.3 |
| AER22TS-4093 | Till | 348 | 32 | 13 | 12 | 8.2 | 99.94 | 0.64 | 0.62 | <0.02 | <0.08 | 1.55 | 27.22 | 11.81 | 66.9 | 67 | 25.0 | 7.7 | 214 | 2.56 | 9.6 |
| AER22TS-4094 | Till | 414 | 33 | 14 | 10 | 7.3 | 99.95 | 0.52 | 0.48 | <0.02 | 0.10 | 1.84 | 19.80 | 11.41 | 60.5 | 79 | 21.9 | 8.5 | 320 | 2.21 | 7.6 |
| AER22TS-4095 | Till | 403 | 34 | 12 | 11 | 7.7 | 99.94 | 0.59 | 0.57 | <0.02 | <0.08 | 2.54 | 24.77 | 13.86 | 82.6 | 136 | 27.5 | 10.9 | 488 | 2.80 | 11.0 |
| AER22TS-4096 | Till | 321 | 28 | 18 | 12 | 7.6 | 99.95 | 0.45 | 0.43 | <0.02 | <0.08 | 1.77 | 25.18 | 12.58 | 58.6 | 32 | 19.2 | 6.5 | 118 | 2.32 | 8.6 |
| AER22TS-4097 | Till | 316 | 31 | 12 | 12 | 8.2 | 99.94 | 0.39 | 0.37 | <0.02 | <0.08 | 2.31 | 27.10 | 15.96 | 62.8 | 48 | 16.3 | 8.2 | 116 | 2.79 | 12.3 |
| AER22TS-4098 | Rock Pulp | 162 | 11 | 17 | 9 | 1.3 | 99.89 | 0.07 | 0.04 | <0.02 | 0.12 | 11.31 | 146.17 | 259.03 | 200.8 | 98 | 75.6 | 46.7 | 264 | 1.53 | 8.8 |
| AER22TS-4099 | Till | 347 | 28 | 12 | 12 | 8.8 | 99.94 | 0.63 | 0.61 | <0.02 | <0.08 | 1.51 | 24.94 | 11.91 | 67.2 | 62 | 26.3 | 12.4 | 328 | 2.52 | 9.7 |
| AER22TS-4100 | Till | 375 | 28 | 13 | 10 | 9.1 | 99.94 | 1.09 | 0.62 | <0.02 | 1.67 | 2.22 | 21.12 | 14.07 | 72.4 | 101 | 23.9 | 10.1 | 406 | 2.57 | 11.1 |



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| | Method Analyte Unit MDL | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|--------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W |
| | | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm |
| | | 0.1 | 0.2 | 0.1 | 0.5 | 0.01 | 0.02 | 0.02 | 1 | 0.01 | 0.001 | 0.5 | 0.5 | 0.01 | 0.5 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 |
| AER22TS-4071 | Till | 1.6 | 1.4 | 6.7 | 31.7 | 0.32 | 0.54 | 0.24 | 31 | 0.38 | 0.072 | 20.7 | 20.0 | 0.32 | 208.2 | 0.004 | 8 | 0.99 | 0.007 | 0.17 | <0.1 |
| AER22TS-4072 | Till | 0.9 | 1.9 | 5.6 | 42.7 | 0.20 | 0.66 | 0.20 | 34 | 0.88 | 0.067 | 17.3 | 22.2 | 0.63 | 238.5 | 0.005 | 7 | 1.22 | 0.012 | 0.14 | <0.1 |
| AER22TS-4073 | Till | 1.3 | 1.6 | 6.5 | 34.0 | 0.31 | 0.66 | 0.25 | 32 | 0.39 | 0.071 | 19.3 | 18.9 | 0.31 | 191.9 | 0.005 | 7 | 0.96 | 0.008 | 0.14 | <0.1 |
| AER22TS-4074 | Till | 0.8 | 2.5 | 6.1 | 35.8 | 0.28 | 0.72 | 0.21 | 30 | 0.79 | 0.056 | 19.3 | 20.3 | 0.52 | 196.5 | 0.006 | 6 | 1.03 | 0.008 | 0.14 | <0.1 |
| AER22TS-4075 | Till | 1.1 | 1.3 | 4.7 | 49.0 | 0.25 | 0.47 | 0.14 | 27 | 1.17 | 0.057 | 14.9 | 20.6 | 0.74 | 122.6 | 0.018 | 8 | 0.93 | 0.022 | 0.20 | <0.1 |
| AER22TS-4076 | Till | 1.3 | 1.8 | 7.6 | 41.6 | 0.03 | 0.52 | 0.22 | 35 | 0.46 | 0.045 | 31.9 | 21.8 | 0.35 | 223.7 | 0.003 | 6 | 1.38 | 0.008 | 0.14 | <0.1 |
| AER22TS-4077 | Till | 2.2 | 1.2 | 5.3 | 56.3 | 0.52 | 0.63 | 0.20 | 30 | 2.07 | 0.060 | 14.7 | 17.5 | 0.61 | 124.5 | 0.006 | 11 | 0.90 | 0.013 | 0.18 | <0.1 |
| AER22TS-4078 | Till | 2.6 | 2.1 | 7.7 | 40.0 | 0.06 | 0.74 | 0.23 | 40 | 0.39 | 0.059 | 31.8 | 20.3 | 0.34 | 256.5 | 0.004 | 5 | 1.21 | 0.008 | 0.13 | <0.1 |
| AER22TS-4079 | Till | 2.7 | 2.1 | 7.4 | 44.1 | 0.04 | 0.55 | 0.21 | 34 | 0.42 | 0.047 | 31.2 | 21.0 | 0.32 | 402.8 | 0.004 | 6 | 1.25 | 0.008 | 0.13 | <0.1 |
| AER22TS-4080 | Till | 1.3 | 1.4 | 6.3 | 46.9 | 0.30 | 0.56 | 0.21 | 29 | 1.11 | 0.066 | 18.7 | 17.7 | 0.57 | 178.1 | 0.004 | 11 | 0.95 | 0.008 | 0.17 | <0.1 |
| AER22TS-4081 | Pulp DUP | 1.5 | 2.3 | 6.6 | 33.3 | 0.06 | 0.66 | 0.20 | 35 | 0.32 | 0.058 | 24.0 | 21.2 | 0.36 | 183.5 | 0.006 | 4 | 1.29 | 0.009 | 0.13 | <0.1 |
| AER22TS-4082 | Till | 1.9 | 2.5 | 7.5 | 38.1 | 0.11 | 0.72 | 0.22 | 39 | 0.47 | 0.068 | 24.9 | 25.1 | 0.43 | 186.0 | 0.007 | 8 | 1.40 | 0.009 | 0.20 | <0.1 |
| AER22TS-4083 | Till | 1.0 | 1.5 | 5.6 | 26.2 | 0.15 | 0.43 | 0.18 | 27 | 0.46 | 0.056 | 20.6 | 19.6 | 0.35 | 148.6 | 0.005 | 7 | 1.05 | 0.006 | 0.15 | <0.1 |
| AER22TS-4084 | Till | 1.1 | 1.6 | 6.6 | 30.2 | 0.14 | 0.51 | 0.20 | 28 | 0.35 | 0.058 | 22.4 | 24.1 | 0.32 | 134.9 | 0.004 | 8 | 1.11 | 0.006 | 0.16 | <0.1 |
| AER22TS-4085 | Till | 1.2 | 13.8 | 5.9 | 32.9 | 0.04 | 0.79 | 0.22 | 26 | 0.33 | 0.020 | 21.1 | 20.9 | 0.30 | 129.6 | 0.004 | 2 | 1.18 | 0.008 | 0.09 | <0.1 |
| AER22TS-4086 | Till | 1.3 | 3.1 | 4.8 | 46.6 | 0.36 | 0.80 | 0.20 | 32 | 0.54 | 0.044 | 18.9 | 22.1 | 0.39 | 280.2 | 0.008 | 3 | 1.13 | 0.009 | 0.11 | <0.1 |
| AER22TS-4087 | Till | 1.3 | 2.0 | 5.8 | 31.4 | 0.06 | 0.74 | 0.19 | 31 | 0.38 | 0.038 | 20.6 | 22.4 | 0.38 | 152.0 | 0.006 | 4 | 1.23 | 0.010 | 0.11 | <0.1 |
| AER22TS-4088 | Till | 1.0 | 1.6 | 7.1 | 31.6 | 0.08 | 0.48 | 0.21 | 24 | 0.38 | 0.062 | 22.6 | 16.5 | 0.29 | 207.0 | 0.004 | 7 | 0.97 | 0.007 | 0.12 | <0.1 |
| AER22TS-4089 | Till | 0.9 | 1.8 | 5.1 | 53.7 | 0.26 | 0.49 | 0.16 | 29 | 1.67 | 0.055 | 15.8 | 18.3 | 0.56 | 448.4 | 0.007 | 7 | 1.03 | 0.010 | 0.12 | <0.1 |
| AER22TS-4090 | Till | 0.9 | 1.5 | 7.1 | 56.0 | 0.10 | 0.41 | 0.20 | 36 | 0.42 | 0.062 | 21.6 | 21.3 | 0.37 | 121.8 | 0.006 | 9 | 1.23 | 0.008 | 0.16 | <0.1 |
| AER22TS-4091 | Till | 0.8 | 3.9 | 4.7 | 33.8 | 0.04 | 0.62 | 0.17 | 42 | 0.39 | 0.069 | 16.5 | 29.5 | 0.55 | 154.9 | 0.010 | 4 | 1.59 | 0.008 | 0.12 | <0.1 |
| AER22TS-4092 | Till | 1.5 | 2.0 | 6.4 | 31.7 | 0.07 | 0.57 | 0.18 | 35 | 0.31 | 0.059 | 21.5 | 20.5 | 0.35 | 190.2 | 0.007 | 5 | 1.17 | 0.009 | 0.10 | <0.1 |
| AER22TS-4093 | Till | 1.6 | 1.8 | 7.2 | 34.3 | 0.07 | 0.52 | 0.20 | 38 | 0.33 | 0.060 | 23.6 | 22.1 | 0.36 | 175.9 | 0.007 | 5 | 1.29 | 0.009 | 0.12 | <0.1 |
| AER22TS-4094 | Till | 1.1 | 1.5 | 7.5 | 30.2 | 0.20 | 0.47 | 0.20 | 33 | 0.60 | 0.058 | 23.7 | 18.9 | 0.36 | 145.9 | 0.009 | 8 | 1.03 | 0.008 | 0.15 | <0.1 |
| AER22TS-4095 | Till | 1.4 | 1.8 | 7.6 | 37.8 | 0.36 | 0.61 | 0.23 | 37 | 0.43 | 0.084 | 24.2 | 20.6 | 0.32 | 182.6 | 0.012 | 12 | 1.08 | 0.008 | 0.18 | <0.1 |
| AER22TS-4096 | Till | 1.9 | 2.1 | 7.8 | 26.8 | 0.04 | 0.43 | 0.24 | 33 | 0.14 | 0.039 | 21.2 | 19.3 | 0.30 | 122.9 | 0.005 | 5 | 1.21 | 0.008 | 0.10 | <0.1 |
| AER22TS-4097 | Till | 2.6 | 2.1 | 7.2 | 107.2 | 0.02 | 0.53 | 0.24 | 32 | 0.24 | 0.072 | 21.6 | 19.1 | 0.28 | 316.1 | 0.007 | 5 | 1.13 | 0.014 | 0.16 | <0.1 |
| AER22TS-4098 | Rock Pulp | 0.4 | 36.2 | 2.9 | 31.1 | 0.46 | 0.20 | 0.14 | 22 | 0.54 | 0.053 | 22.9 | 29.2 | 0.44 | 55.7 | 0.064 | 2 | 0.76 | 0.085 | 0.10 | <0.1 |
| AER22TS-4099 | Till | 1.1 | 1.9 | 6.3 | 51.1 | 0.06 | 0.49 | 0.18 | 36 | 0.35 | 0.057 | 20.1 | 22.9 | 0.40 | 176.8 | 0.011 | 4 | 1.33 | 0.011 | 0.12 | <0.1 |
| AER22TS-4100 | Till | 0.9 | 1.4 | 6.6 | 36.5 | 0.22 | 0.44 | 0.21 | 31 | 1.53 | 0.064 | 19.6 | 17.0 | 0.65 | 143.4 | 0.006 | 11 | 0.98 | 0.008 | 0.15 | <0.1 |



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| Method Analyte Unit MDL | | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|----------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Sc | Ti | S | Hg | Se | Te | Ga | Cs | Ge | Hf | Nb | Rb | Sn | Ta | Zr | Y | Ce | In | Re | Be |
| | | ppm | ppm | % | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppb | ppm |
| | | 0.1 | 0.02 | 0.02 | 5 | 0.1 | 0.02 | 0.1 | 0.02 | 0.1 | 0.02 | 0.02 | 0.1 | 0.1 | 0.05 | 0.1 | 0.01 | 0.1 | 0.02 | 1 | 0.1 |
| AER22TS-4071 | Till | 4.2 | 0.33 | 0.03 | 59 | 0.9 | 0.06 | 3.4 | 1.71 | <0.1 | 0.13 | 0.12 | 17.7 | 0.8 | <0.05 | 7.4 | 16.50 | 42.8 | 0.03 | 5 | 0.8 |
| AER22TS-4072 | Till | 4.9 | 0.25 | <0.02 | 60 | 0.4 | 0.06 | 4.0 | 1.58 | <0.1 | 0.14 | 0.09 | 14.8 | 0.5 | <0.05 | 7.8 | 13.70 | 36.2 | 0.03 | <1 | 0.7 |
| AER22TS-4073 | Till | 4.2 | 0.40 | <0.02 | 64 | 0.6 | 0.08 | 3.3 | 1.61 | <0.1 | 0.11 | 0.10 | 15.9 | 0.6 | <0.05 | 7.3 | 14.86 | 43.3 | 0.03 | <1 | 0.7 |
| AER22TS-4074 | Till | 4.3 | 0.33 | <0.02 | 56 | 0.4 | 0.06 | 3.5 | 1.66 | <0.1 | 0.16 | 0.08 | 15.3 | 0.6 | <0.05 | 8.4 | 15.06 | 40.9 | 0.03 | <1 | 0.7 |
| AER22TS-4075 | Till | 3.7 | 0.20 | 0.30 | 32 | 0.7 | 0.04 | 3.3 | 1.16 | <0.1 | 0.18 | 0.16 | 17.0 | 0.5 | <0.05 | 9.3 | 10.24 | 30.2 | 0.02 | 3 | 0.5 |
| AER22TS-4076 | Till | 5.3 | 0.22 | <0.02 | 47 | 0.9 | 0.06 | 4.1 | 1.66 | <0.1 | 0.14 | 0.09 | 14.3 | 0.8 | <0.05 | 8.5 | 28.02 | 58.5 | 0.03 | <1 | 1.4 |
| AER22TS-4077 | Till | 3.5 | 0.35 | 1.19 | 39 | 1.1 | 0.06 | 3.1 | 1.38 | <0.1 | 0.24 | 0.12 | 15.9 | 0.7 | <0.05 | 11.6 | 12.26 | 31.6 | 0.03 | 12 | 0.6 |
| AER22TS-4078 | Till | 4.8 | 0.31 | <0.02 | 64 | 1.4 | 0.07 | 3.7 | 1.66 | <0.1 | 0.13 | 0.10 | 13.9 | 0.7 | <0.05 | 8.7 | 31.58 | 62.2 | 0.03 | 3 | 1.1 |
| AER22TS-4079 | Till | 5.3 | 0.26 | 0.02 | 65 | 1.5 | 0.07 | 3.9 | 1.74 | <0.1 | 0.14 | 0.12 | 14.0 | 0.8 | <0.05 | 8.7 | 28.57 | 69.6 | 0.03 | <1 | 1.1 |
| AER22TS-4080 | Till | 4.0 | 0.22 | 0.02 | 44 | 1.4 | 0.07 | 3.1 | 1.41 | <0.1 | 0.13 | 0.11 | 16.7 | 0.6 | <0.05 | 7.7 | 14.25 | 39.5 | 0.03 | 6 | 0.7 |
| AER22TS-4081 | Pulp DUP | 5.3 | 0.29 | <0.02 | 68 | 0.5 | 0.06 | 4.0 | 1.67 | <0.1 | 0.10 | 0.14 | 13.9 | 0.5 | <0.05 | 6.8 | 19.45 | 48.4 | 0.03 | 1 | 0.8 |
| AER22TS-4082 | Till | 5.5 | 0.34 | <0.02 | 79 | 0.7 | 0.07 | 4.6 | 1.71 | <0.1 | 0.17 | 0.17 | 22.3 | 0.8 | <0.05 | 10.4 | 24.24 | 45.7 | 0.03 | 1 | 0.9 |
| AER22TS-4083 | Till | 3.9 | 0.21 | <0.02 | 42 | 0.6 | 0.04 | 3.4 | 1.30 | <0.1 | 0.07 | 0.15 | 16.2 | 1.0 | <0.05 | 4.5 | 13.24 | 43.9 | 0.03 | 1 | 0.7 |
| AER22TS-4084 | Till | 4.3 | 0.20 | <0.02 | 44 | 0.4 | 0.06 | 3.7 | 1.46 | <0.1 | 0.14 | 0.11 | 15.4 | 2.3 | <0.05 | 8.3 | 15.65 | 44.1 | 0.03 | 1 | 0.8 |
| AER22TS-4085 | Till | 5.8 | 0.26 | <0.02 | 96 | 0.3 | 0.06 | 3.5 | 2.07 | <0.1 | 0.09 | 0.08 | 10.3 | 1.3 | <0.05 | 5.1 | 15.54 | 42.0 | 0.03 | <1 | 0.7 |
| AER22TS-4086 | Till | 5.6 | 0.25 | <0.02 | 99 | 0.5 | 0.06 | 4.0 | 1.35 | <0.1 | 0.18 | 0.15 | 12.9 | 0.5 | <0.05 | 10.7 | 16.42 | 40.8 | 0.03 | <1 | 0.7 |
| AER22TS-4087 | Till | 5.3 | 0.23 | <0.02 | 92 | 0.8 | 0.06 | 4.0 | 1.55 | <0.1 | 0.13 | 0.17 | 11.6 | 1.1 | <0.05 | 8.0 | 18.57 | 42.1 | 0.03 | <1 | 0.8 |
| AER22TS-4088 | Till | 3.8 | 0.22 | <0.02 | 54 | 0.5 | 0.06 | 3.1 | 1.58 | <0.1 | 0.12 | 0.09 | 13.2 | 0.5 | <0.05 | 7.5 | 15.84 | 45.0 | 0.03 | <1 | 0.8 |
| AER22TS-4089 | Till | 4.2 | 0.17 | <0.02 | 49 | 0.5 | 0.04 | 3.6 | 1.07 | <0.1 | 0.20 | 0.16 | 13.2 | 0.5 | <0.05 | 10.4 | 12.87 | 33.4 | 0.04 | 1 | 0.7 |
| AER22TS-4090 | Till | 4.7 | 0.17 | <0.02 | 47 | 0.2 | 0.05 | 4.1 | 1.04 | <0.1 | 0.21 | 0.10 | 13.8 | 0.6 | <0.05 | 11.4 | 16.28 | 43.8 | 0.03 | <1 | 1.0 |
| AER22TS-4091 | Till | 7.7 | 0.18 | <0.02 | 93 | 0.7 | 0.05 | 5.4 | 1.56 | <0.1 | 0.13 | 0.18 | 14.5 | 0.6 | <0.05 | 8.5 | 16.85 | 34.4 | 0.04 | <1 | 0.8 |
| AER22TS-4092 | Till | 5.0 | 0.25 | <0.02 | 72 | 0.5 | 0.05 | 3.9 | 1.35 | <0.1 | 0.12 | 0.18 | 12.5 | 0.6 | <0.05 | 7.9 | 19.48 | 44.4 | 0.03 | <1 | 0.9 |
| AER22TS-4093 | Till | 5.3 | 0.27 | <0.02 | 70 | 0.5 | 0.05 | 4.3 | 1.34 | <0.1 | 0.15 | 0.19 | 13.7 | 0.5 | <0.05 | 9.9 | 20.38 | 48.7 | 0.03 | <1 | 0.9 |
| AER22TS-4094 | Till | 3.6 | 0.27 | <0.02 | 32 | 0.4 | 0.05 | 3.5 | 1.23 | <0.1 | 0.19 | 0.14 | 16.1 | 0.8 | <0.05 | 11.8 | 16.32 | 47.4 | 0.03 | <1 | 0.9 |
| AER22TS-4095 | Till | 4.2 | 0.33 | <0.02 | 69 | 0.4 | 0.07 | 3.7 | 1.51 | <0.1 | 0.31 | 0.21 | 21.4 | 0.8 | <0.05 | 16.4 | 17.86 | 48.8 | 0.03 | <1 | 0.9 |
| AER22TS-4096 | Till | 4.4 | 0.32 | <0.02 | 66 | 1.1 | 0.06 | 4.0 | 1.64 | <0.1 | 0.12 | 0.15 | 16.4 | 0.6 | <0.05 | 7.8 | 13.55 | 44.7 | 0.03 | <1 | 0.9 |
| AER22TS-4097 | Till | 4.7 | 0.31 | 0.13 | 80 | 1.2 | 0.08 | 3.8 | 1.43 | <0.1 | 0.17 | 0.14 | 13.0 | 0.6 | <0.05 | 10.1 | 17.63 | 43.9 | 0.03 | <1 | 0.8 |
| AER22TS-4098 | Rock Pulp | 2.8 | 0.06 | 0.04 | 17 | 0.1 | <0.02 | 2.6 | 1.07 | <0.1 | 0.16 | 0.60 | 6.6 | 2.2 | <0.05 | 5.3 | 5.26 | 38.8 | 0.03 | <1 | 0.2 |
| AER22TS-4099 | Till | 5.1 | 0.25 | <0.02 | 69 | 0.4 | 0.05 | 4.3 | 1.51 | <0.1 | 0.18 | 0.16 | 14.4 | 0.6 | <0.05 | 10.0 | 17.54 | 42.6 | 0.03 | <1 | 0.8 |
| AER22TS-4100 | Till | 3.8 | 0.25 | <0.02 | 46 | 0.4 | 0.06 | 3.4 | 1.31 | <0.1 | 0.18 | 0.08 | 15.7 | 0.5 | <0.05 | 11.0 | 14.83 | 41.4 | 0.03 | <1 | 0.7 |



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Report Date:

March 07, 2023

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| Method Analyte Unit MDL | | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|----------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Li | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu | Pd | Pt |
| | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppb | ppb |
| | | 0.1 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 10 | 2 |
| AER22TS-4071 | Till | 11.9 | 5.52 | 21.44 | 4.55 | 0.94 | 4.25 | 0.59 | 3.29 | 0.60 | 1.61 | 0.20 | 1.26 | 0.18 | <10 | <2 |
| AER22TS-4072 | Till | 13.9 | 4.57 | 18.06 | 3.81 | 0.81 | 3.47 | 0.49 | 2.72 | 0.49 | 1.34 | 0.17 | 1.07 | 0.15 | <10 | <2 |
| AER22TS-4073 | Till | 11.4 | 5.13 | 19.94 | 4.15 | 0.86 | 3.77 | 0.53 | 2.98 | 0.54 | 1.44 | 0.18 | 1.14 | 0.16 | <10 | <2 |
| AER22TS-4074 | Till | 10.5 | 4.95 | 19.34 | 4.06 | 0.87 | 3.66 | 0.51 | 2.91 | 0.52 | 1.43 | 0.19 | 1.16 | 0.16 | <10 | <2 |
| AER22TS-4075 | Till | 14.8 | 3.67 | 14.46 | 2.94 | 0.57 | 2.63 | 0.36 | 2.02 | 0.37 | 0.98 | 0.12 | 0.78 | 0.11 | <10 | <2 |
| AER22TS-4076 | Till | 15.4 | 9.42 | 37.00 | 8.03 | 1.70 | 7.49 | 1.06 | 5.96 | 1.08 | 2.88 | 0.37 | 2.29 | 0.31 | <10 | <2 |
| AER22TS-4077 | Till | 15.1 | 3.77 | 15.31 | 3.28 | 0.68 | 3.04 | 0.43 | 2.45 | 0.44 | 1.19 | 0.16 | 0.96 | 0.14 | <10 | <2 |
| AER22TS-4078 | Till | 12.5 | 9.23 | 37.22 | 8.37 | 1.77 | 8.05 | 1.13 | 6.50 | 1.19 | 3.27 | 0.43 | 2.77 | 0.39 | <10 | <2 |
| AER22TS-4079 | Till | 14.1 | 9.48 | 38.11 | 8.42 | 1.80 | 7.91 | 1.12 | 6.27 | 1.15 | 3.11 | 0.41 | 2.58 | 0.36 | <10 | <2 |
| AER22TS-4080 | Till | 12.1 | 4.93 | 19.01 | 3.95 | 0.80 | 3.56 | 0.50 | 2.80 | 0.50 | 1.35 | 0.17 | 1.09 | 0.15 | <10 | <2 |
| AER22TS-4081 | Pulp DUP | 11.2 | 6.85 | 27.24 | 5.87 | 1.22 | 5.30 | 0.72 | 4.04 | 0.73 | 1.98 | 0.26 | 1.60 | 0.22 | <10 | <2 |
| AER22TS-4082 | Till | 17.5 | 6.52 | 26.29 | 5.55 | 1.18 | 5.27 | 0.71 | 4.12 | 0.79 | 2.24 | 0.31 | 2.00 | 0.31 | <10 | <2 |
| AER22TS-4083 | Till | 12.1 | 5.18 | 20.07 | 4.02 | 0.79 | 3.44 | 0.47 | 2.63 | 0.46 | 1.23 | 0.16 | 0.99 | 0.14 | <10 | <2 |
| AER22TS-4084 | Till | 12.5 | 5.88 | 22.69 | 4.60 | 0.93 | 4.06 | 0.55 | 3.09 | 0.56 | 1.51 | 0.20 | 1.22 | 0.18 | <10 | <2 |
| AER22TS-4085 | Till | 8.2 | 5.82 | 22.55 | 4.82 | 1.15 | 4.30 | 0.60 | 3.41 | 0.60 | 1.59 | 0.21 | 1.30 | 0.18 | <10 | <2 |
| AER22TS-4086 | Till | 11.2 | 4.94 | 20.04 | 4.29 | 1.09 | 4.01 | 0.57 | 3.24 | 0.59 | 1.61 | 0.21 | 1.33 | 0.19 | <10 | <2 |
| AER22TS-4087 | Till | 9.6 | 5.74 | 23.02 | 5.10 | 1.17 | 4.66 | 0.66 | 3.78 | 0.68 | 1.87 | 0.25 | 1.57 | 0.22 | <10 | <2 |
| AER22TS-4088 | Till | 10.6 | 5.77 | 22.26 | 4.46 | 0.87 | 3.92 | 0.54 | 3.01 | 0.55 | 1.48 | 0.19 | 1.20 | 0.17 | <10 | <2 |
| AER22TS-4089 | Till | 11.7 | 4.24 | 16.16 | 3.40 | 0.74 | 3.03 | 0.42 | 2.40 | 0.44 | 1.17 | 0.16 | 0.96 | 0.14 | <10 | <2 |
| AER22TS-4090 | Till | 15.0 | 5.71 | 22.11 | 4.47 | 0.89 | 3.89 | 0.53 | 2.98 | 0.56 | 1.48 | 0.20 | 1.21 | 0.17 | <10 | <2 |
| AER22TS-4091 | Till | 16.9 | 4.85 | 20.13 | 4.62 | 1.10 | 4.20 | 0.58 | 3.32 | 0.61 | 1.65 | 0.22 | 1.37 | 0.19 | <10 | <2 |
| AER22TS-4092 | Till | 12.0 | 6.33 | 25.46 | 5.49 | 1.13 | 4.91 | 0.68 | 3.78 | 0.70 | 1.89 | 0.25 | 1.56 | 0.21 | <10 | <2 |
| AER22TS-4093 | Till | 12.6 | 6.81 | 27.40 | 5.87 | 1.19 | 5.21 | 0.70 | 3.96 | 0.73 | 1.96 | 0.26 | 1.61 | 0.22 | <10 | <2 |
| AER22TS-4094 | Till | 11.4 | 6.13 | 23.25 | 4.57 | 0.84 | 3.97 | 0.53 | 2.98 | 0.55 | 1.49 | 0.20 | 1.24 | 0.17 | <10 | <2 |
| AER22TS-4095 | Till | 12.1 | 6.03 | 24.24 | 4.77 | 0.92 | 4.24 | 0.57 | 3.24 | 0.59 | 1.61 | 0.21 | 1.29 | 0.18 | <10 | <2 |
| AER22TS-4096 | Till | 13.8 | 5.58 | 20.89 | 3.99 | 0.76 | 3.44 | 0.46 | 2.59 | 0.46 | 1.16 | 0.14 | 0.80 | 0.10 | <10 | <2 |
| AER22TS-4097 | Till | 10.2 | 5.88 | 23.29 | 5.06 | 1.04 | 4.59 | 0.63 | 3.56 | 0.65 | 1.74 | 0.23 | 1.37 | 0.19 | <10 | <2 |
| AER22TS-4098 | Rock Pulp | 8.5 | 4.75 | 16.16 | 2.35 | 0.50 | 1.56 | 0.18 | 1.03 | 0.18 | 0.49 | 0.06 | 0.41 | 0.06 | 43 | 24 |
| AER22TS-4099 | Till | 12.1 | 5.57 | 21.48 | 4.54 | 0.96 | 4.22 | 0.57 | 3.28 | 0.61 | 1.69 | 0.22 | 1.45 | 0.21 | <10 | <2 |
| AER22TS-4100 | Till | 12.4 | 5.19 | 20.04 | 4.05 | 0.79 | 3.56 | 0.48 | 2.71 | 0.49 | 1.32 | 0.17 | 1.05 | 0.15 | <10 | <2 |



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| | Method Analyte Unit MDL | WGHT | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 |
|--------------|----------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Wgt | Ba | Be | Co | Cs | Ga | Hf | Nb | Rb | Sn | Sr | Ta | Th | U | V | W | Zr | Y | La | Ce |
| | | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | | 0.01 | 1 | 1 | 0.2 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 1 | 0.5 | 0.1 | 0.2 | 0.1 | 8 | 0.5 | 0.1 | 0.1 | 0.1 | 0.1 |
| AER22TS-4101 | Pulp DUP | | 616 | 3 | 11.4 | 3.8 | 11.7 | 10.9 | 12.3 | 63.6 | 2 | 119.8 | 1.0 | 11.6 | 3.0 | 98 | 0.9 | 420.0 | 33.1 | 40.0 | 79.0 |
| AER22TS-4102 | Till | 1.86 | 631 | 1 | 12.1 | 3.8 | 11.6 | 11.6 | 12.9 | 65.6 | 3 | 123.8 | 0.9 | 11.1 | 3.1 | 104 | 1.4 | 435.9 | 32.2 | 39.9 | 76.5 |
| AER22TS-4103 | Till | 2.45 | 637 | 2 | 12.6 | 3.7 | 11.4 | 11.7 | 12.5 | 64.0 | 2 | 126.3 | 0.9 | 11.6 | 3.2 | 102 | 1.6 | 452.5 | 33.6 | 40.6 | 78.1 |
| AER22TS-4104 | Till | 1.61 | 635 | <1 | 8.6 | 4.5 | 14.0 | 11.8 | 14.1 | 75.4 | 2 | 123.0 | 1.1 | 13.5 | 5.1 | 123 | 1.3 | 441.2 | 33.0 | 42.8 | 86.4 |
| AER22TS-4105 | Till | 1.83 | 584 | 3 | 11.5 | 3.8 | 13.2 | 8.8 | 12.6 | 73.8 | 2 | 108.6 | 0.8 | 10.9 | 2.6 | 113 | 1.4 | 343.5 | 27.6 | 35.5 | 72.1 |
| AER22TS-4106 | Till | 1.57 | 609 | 3 | 14.1 | 4.8 | 13.2 | 9.4 | 12.8 | 78.8 | 2 | 115.7 | 0.9 | 11.6 | 3.2 | 128 | 1.3 | 352.9 | 33.1 | 39.1 | 78.6 |
| AER22TS-4107 | Till | 1.62 | 429 | 3 | 11.4 | 4.7 | 12.6 | 10.5 | 14.2 | 71.6 | 2 | 108.2 | 1.2 | 12.6 | 4.6 | 92 | 1.4 | 413.1 | 32.7 | 39.6 | 85.1 |



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| Method Analyte Unit MDL | | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |
|----------------------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu | Mo | Cu | Pb | Zn | Ni | As | Cd | Sb |
| | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | | 0.02 | 0.3 | 0.05 | 0.02 | 0.05 | 0.01 | 0.05 | 0.02 | 0.03 | 0.01 | 0.05 | 0.01 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.5 | 0.1 | 0.1 |
| AER22TS-4101 | Pulp DUP | 9.00 | 34.9 | 6.62 | 1.31 | 6.11 | 0.93 | 5.73 | 1.18 | 3.43 | 0.49 | 3.40 | 0.52 | 1.7 | 19.3 | 12.1 | 58 | 26.8 | 9.7 | 0.3 | 0.3 |
| AER22TS-4102 | Till | 9.09 | 34.8 | 6.63 | 1.31 | 5.87 | 0.93 | 5.63 | 1.12 | 3.38 | 0.48 | 3.43 | 0.52 | 1.8 | 19.5 | 12.1 | 61 | 25.1 | 9.8 | 0.3 | 0.3 |
| AER22TS-4103 | Till | 9.20 | 36.2 | 6.75 | 1.35 | 6.20 | 0.95 | 5.83 | 1.20 | 3.77 | 0.55 | 3.51 | 0.56 | 1.8 | 19.4 | 12.1 | 59 | 26.9 | 9.8 | 0.3 | 0.3 |
| AER22TS-4104 | Till | 9.79 | 37.3 | 6.74 | 1.36 | 6.45 | 0.99 | 5.99 | 1.26 | 3.74 | 0.57 | 3.79 | 0.55 | 3.0 | 21.8 | 13.7 | 61 | 13.2 | 10.5 | <0.1 | 0.4 |
| AER22TS-4105 | Till | 8.31 | 32.6 | 5.80 | 1.18 | 5.34 | 0.85 | 5.04 | 1.05 | 2.94 | 0.42 | 2.89 | 0.45 | 2.3 | 19.3 | 12.5 | 68 | 23.7 | 9.7 | 0.3 | 0.3 |
| AER22TS-4106 | Till | 8.79 | 33.3 | 6.23 | 1.28 | 6.00 | 0.91 | 5.70 | 1.14 | 3.40 | 0.50 | 3.32 | 0.54 | 5.0 | 24.3 | 15.7 | 80 | 33.9 | 13.7 | 0.4 | 0.4 |
| AER22TS-4107 | Till | 10.13 | 40.5 | 7.79 | 1.56 | 6.51 | 0.99 | 5.99 | 1.26 | 3.62 | 0.55 | 3.59 | 0.54 | 1.2 | 18.2 | 15.3 | 83 | 19.6 | 10.1 | <0.1 | 0.1 |



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| Method Analyte Unit MDL | | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 |
|----------------------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Bi | Ag | Au | Hg | Tl | Se | SiO2 | Al2O3 | Fe2O3 | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | MnO | Cr2O3 | Ba | Ni | Sr |
| | | ppm | ppm | ppb | ppm | ppm | ppm | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm |
| | | 0.1 | 0.1 | 0.5 | 0.01 | 0.1 | 0.5 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.002 | 5 | 20 | 2 |
| AER22TS-4101 | Pulp DUP | 0.2 | <0.1 | 0.9 | 0.04 | 0.3 | <0.5 | 69.18 | 10.45 | 4.54 | 1.24 | 2.44 | 0.69 | 1.71 | 0.69 | 0.16 | 0.07 | 0.010 | 633 | 29 | 124 |
| AER22TS-4102 | Till | 0.2 | <0.1 | 0.8 | 0.04 | 0.3 | <0.5 | 68.82 | 10.63 | 4.69 | 1.30 | 2.26 | 0.69 | 1.77 | 0.70 | 0.16 | 0.06 | 0.011 | 618 | 28 | 125 |
| AER22TS-4103 | Till | 0.2 | <0.1 | 0.8 | 0.04 | 0.3 | <0.5 | 69.52 | 10.26 | 4.50 | 1.23 | 2.43 | 0.68 | 1.66 | 0.67 | 0.16 | 0.07 | 0.010 | 626 | 31 | 123 |
| AER22TS-4104 | Till | 0.2 | <0.1 | 1.0 | 0.04 | 0.4 | 1.5 | 70.33 | 11.96 | 4.90 | 0.94 | 0.50 | 0.55 | 1.88 | 0.77 | 0.20 | 0.03 | 0.011 | 635 | <20 | 124 |
| AER22TS-4105 | Till | 0.2 | <0.1 | 0.6 | 0.03 | 0.2 | <0.5 | 65.88 | 11.30 | 5.08 | 1.65 | 2.82 | 0.62 | 1.92 | 0.65 | 0.18 | 0.06 | 0.011 | 592 | 31 | 115 |
| AER22TS-4106 | Till | 0.2 | 0.1 | 1.4 | 0.05 | 0.3 | <0.5 | 68.41 | 12.11 | 5.56 | 1.16 | 0.91 | 0.59 | 1.97 | 0.71 | 0.20 | 0.06 | 0.011 | 612 | 40 | 112 |
| AER22TS-4107 | Till | 0.2 | <0.1 | <0.5 | 0.02 | 0.1 | 0.8 | 70.34 | 11.68 | 4.92 | 0.99 | 0.50 | 0.60 | 1.83 | 0.75 | 0.18 | 0.03 | 0.009 | 439 | 26 | 109 |



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CERTIFICATE OF ANALYSIS

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| | Method Analyte Unit MDL | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | TC000 | TC005 | TC005 | TC006 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|--------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Zr | Y | Nb | Sc | LOI | Sum | TOT/C | C/ORG | C/GRA | CO2 | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As |
| | | ppm | ppm | ppm | ppm | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppb | ppm | ppm | ppm | % | ppm |
| | | 5 | 3 | 5 | 1 | -5.1 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.08 | 0.01 | 0.01 | 0.01 | 0.1 | 2 | 0.1 | 0.1 | 1 | 0.01 |
| AER22TS-4101 | Pulp DUP | 461 | 32 | 10 | 9 | 8.6 | 99.95 | 0.93 | 0.57 | <0.02 | 1.28 | 1.95 | 19.12 | 12.18 | 59.6 | 72 | 26.3 | 11.1 | 449 | 2.28 | 9.5 |
| AER22TS-4102 | Till | 461 | 32 | 11 | 9 | 8.7 | 99.94 | 0.87 | 0.49 | <0.02 | 1.34 | 2.03 | 19.06 | 11.59 | 58.6 | 67 | 23.9 | 10.9 | 404 | 2.27 | 9.1 |
| AER22TS-4103 | Till | 446 | 31 | 11 | 9 | 8.6 | 99.94 | 0.92 | 0.53 | <0.02 | 1.40 | 1.93 | 19.00 | 11.88 | 57.8 | 76 | 25.8 | 11.0 | 440 | 2.24 | 9.5 |
| AER22TS-4104 | Till | 455 | 33 | 11 | 10 | 7.7 | 99.94 | 0.55 | 0.52 | 0.03 | <0.08 | 3.17 | 22.61 | 13.50 | 63.1 | 53 | 13.3 | 6.9 | 184 | 2.28 | 10.1 |
| AER22TS-4105 | Till | 357 | 27 | 8 | 10 | 9.6 | 99.91 | 1.18 | 0.61 | 0.03 | 2.02 | 2.43 | 20.40 | 13.25 | 71.7 | 99 | 24.9 | 11.0 | 445 | 2.70 | 9.8 |
| AER22TS-4106 | Till | 393 | 32 | 15 | 11 | 8.1 | 99.94 | 0.53 | 0.48 | 0.02 | 0.10 | 5.45 | 24.86 | 15.22 | 81.0 | 131 | 32.8 | 12.6 | 401 | 2.86 | 13.3 |
| AER22TS-4107 | Till | 449 | 32 | 18 | 11 | 8.0 | 99.96 | 0.60 | 0.57 | 0.03 | <0.08 | 1.16 | 17.63 | 13.98 | 81.3 | 53 | 17.8 | 10.4 | 204 | 2.39 | 9.6 |



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CERTIFICATE OF ANALYSIS

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| | Method Analyte Unit MDL | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|--------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W |
| | | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm |
| | | 0.1 | 0.2 | 0.1 | 0.5 | 0.01 | 0.02 | 0.02 | 1 | 0.01 | 0.001 | 0.5 | 0.5 | 0.01 | 0.5 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 |
| | | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4101 | Pulp DUP | 0.9 | 1.4 | 7.1 | 40.3 | 0.31 | 0.50 | 0.20 | 32 | 1.46 | 0.061 | 21.9 | 16.7 | 0.45 | 229.1 | 0.008 | 7 | 0.93 | 0.009 | 0.13 | <0.1 |
| AER22TS-4102 | Till | 0.9 | 1.4 | 7.1 | 39.0 | 0.27 | 0.51 | 0.19 | 32 | 1.31 | 0.061 | 22.0 | 16.1 | 0.47 | 205.2 | 0.007 | 7 | 0.92 | 0.008 | 0.13 | <0.1 |
| AER22TS-4103 | Till | 0.9 | 1.4 | 6.8 | 40.0 | 0.32 | 0.51 | 0.20 | 30 | 1.44 | 0.061 | 22.0 | 16.4 | 0.44 | 227.5 | 0.007 | 7 | 0.90 | 0.008 | 0.13 | <0.1 |
| AER22TS-4104 | Till | 2.9 | 1.5 | 8.3 | 49.6 | 0.10 | 0.59 | 0.22 | 31 | 0.22 | 0.078 | 24.7 | 15.9 | 0.21 | 167.2 | 0.007 | 6 | 0.91 | 0.009 | 0.15 | <0.1 |
| AER22TS-4105 | Till | 1.1 | 1.3 | 7.8 | 41.2 | 0.33 | 0.43 | 0.21 | 35 | 1.83 | 0.071 | 22.5 | 19.4 | 0.68 | 200.8 | 0.008 | 11 | 1.12 | 0.009 | 0.19 | <0.1 |
| AER22TS-4106 | Till | 1.1 | 1.7 | 7.5 | 33.7 | 0.40 | 0.63 | 0.23 | 36 | 0.47 | 0.075 | 22.3 | 18.6 | 0.34 | 160.3 | 0.005 | 10 | 0.99 | 0.008 | 0.15 | <0.1 |
| AER22TS-4107 | Till | 2.2 | 0.9 | 7.9 | 34.7 | 0.03 | 0.28 | 0.22 | 20 | 0.24 | 0.067 | 19.0 | 15.0 | 0.25 | 65.2 | 0.004 | 8 | 0.94 | 0.010 | 0.12 | <0.1 |



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CERTIFICATE OF ANALYSIS

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| | Method Analyte Unit MDL | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|--------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Sc | Ti | S | Hg | Se | Te | Ga | Cs | Ge | Hf | Nb | Rb | Sn | Ta | Zr | Y | Ce | In | Re | Be |
| | | ppm | ppm | % | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppb | ppm |
| | | 0.1 | 0.02 | 0.02 | 5 | 0.1 | 0.02 | 0.1 | 0.02 | 0.1 | 0.02 | 0.1 | 0.02 | 0.1 | 0.1 | 0.05 | 0.1 | 0.01 | 0.1 | 0.02 | 1 |
| AER22TS-4101 | Pulp DUP | 3.5 | 0.30 | 0.03 | 40 | 0.4 | 0.05 | 3.2 | 1.27 | <0.1 | 0.18 | 0.11 | 15.0 | 0.5 | <0.05 | 10.2 | 16.71 | 44.0 | 0.02 | <1 | 0.7 |
| AER22TS-4102 | Till | 3.4 | 0.30 | 0.02 | 36 | 0.3 | 0.05 | 3.1 | 1.24 | <0.1 | 0.17 | 0.11 | 15.1 | 0.5 | <0.05 | 10.4 | 16.47 | 44.7 | 0.02 | 1 | 0.8 |
| AER22TS-4103 | Till | 3.4 | 0.30 | 0.03 | 37 | 0.4 | 0.06 | 3.1 | 1.27 | <0.1 | 0.18 | 0.12 | 15.0 | 0.5 | <0.05 | 10.1 | 16.61 | 43.4 | 0.02 | <1 | 0.8 |
| AER22TS-4104 | Till | 3.6 | 0.38 | 0.06 | 42 | 1.5 | 0.05 | 3.1 | 1.10 | <0.1 | 0.19 | 0.23 | 16.2 | 0.6 | <0.05 | 11.0 | 16.20 | 51.2 | 0.03 | <1 | 0.7 |
| AER22TS-4105 | Till | 4.0 | 0.25 | <0.02 | 41 | 0.4 | 0.04 | 3.7 | 1.15 | <0.1 | 0.24 | 0.10 | 18.6 | 0.7 | <0.05 | 13.0 | 15.46 | 47.7 | 0.03 | 1 | 0.8 |
| AER22TS-4106 | Till | 4.0 | 0.35 | <0.02 | 52 | 0.5 | 0.07 | 3.5 | 1.38 | <0.1 | 0.15 | 0.09 | 17.3 | 0.8 | <0.05 | 9.6 | 16.98 | 46.2 | 0.03 | <1 | 0.9 |
| AER22TS-4107 | Till | 3.8 | 0.14 | 0.02 | 27 | 1.0 | 0.05 | 3.1 | 1.47 | <0.1 | 0.16 | 0.12 | 14.8 | 0.7 | <0.05 | 9.8 | 15.86 | 45.9 | 0.03 | <1 | 1.0 |



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CERTIFICATE OF ANALYSIS

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| Method Analyte Unit MDL | | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|----------------------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Li | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu | Pd | Pt |
| | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppb | ppb |
| | | 0.1 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 10 | 2 |
| AER22TS-4101 | Pulp DUP | 10.0 | 5.88 | 22.29 | 4.45 | 0.83 | 4.04 | 0.54 | 3.06 | 0.57 | 1.52 | 0.20 | 1.23 | 0.17 | <10 | <2 |
| AER22TS-4102 | Till | 9.8 | 5.87 | 22.14 | 4.43 | 0.83 | 3.93 | 0.53 | 2.99 | 0.54 | 1.49 | 0.19 | 1.20 | 0.17 | <10 | <2 |
| AER22TS-4103 | Till | 9.8 | 5.82 | 21.97 | 4.40 | 0.83 | 3.95 | 0.54 | 3.04 | 0.55 | 1.50 | 0.20 | 1.21 | 0.17 | <10 | <2 |
| AER22TS-4104 | Till | 8.0 | 6.48 | 24.51 | 4.93 | 0.91 | 4.19 | 0.57 | 3.17 | 0.57 | 1.54 | 0.20 | 1.25 | 0.18 | <10 | <2 |
| AER22TS-4105 | Till | 12.0 | 5.89 | 22.39 | 4.42 | 0.83 | 3.86 | 0.51 | 2.89 | 0.53 | 1.42 | 0.18 | 1.14 | 0.16 | <10 | <2 |
| AER22TS-4106 | Till | 11.2 | 5.90 | 22.51 | 4.55 | 0.88 | 4.05 | 0.55 | 3.09 | 0.57 | 1.50 | 0.20 | 1.23 | 0.17 | <10 | <2 |
| AER22TS-4107 | Till | 10.6 | 6.36 | 24.71 | 5.24 | 1.04 | 4.51 | 0.61 | 3.36 | 0.60 | 1.60 | 0.21 | 1.33 | 0.19 | <10 | <2 |



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QUALITY CONTROL REPORT

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| | Method | WGHT | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 |
|------------------|---------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Analyte | Wgt | Ba | Be | Co | Cs | Ga | Hf | Nb | Rb | Sn | Sr | Ta | Th | U | V | W | Zr | Y | La | Ce |
| | Unit | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | MDL | 0.01 | 1 | 1 | 0.2 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 1 | 0.5 | 0.1 | 0.2 | 0.1 | 8 | 0.5 | 0.1 | 0.1 | 0.1 | 0.1 |
| AER22TS-4012 | Till | 1.55 | 759 | 1 | 17.8 | 5.8 | 15.5 | 4.0 | 12.0 | 102.2 | 1 | 166.5 | 1.0 | 10.7 | 4.8 | 155 | 1.4 | 149.2 | 23.0 | 36.7 | 70.8 |
| AER22TS-4051 | Till | 2.18 | 871 | 2 | 18.3 | 5.7 | 15.0 | 7.6 | 14.6 | 89.0 | 2 | 151.8 | 0.8 | 10.9 | 4.3 | 132 | 1.8 | 297.5 | 28.2 | 36.2 | 69.0 |
| AER22TS-4089 | Till | 1.69 | 953 | <1 | 13.9 | 3.5 | 14.6 | 5.4 | 9.7 | 60.2 | 1 | 159.2 | 0.7 | 7.2 | 2.3 | 126 | 1.5 | 213.9 | 22.1 | 26.8 | 55.0 |
| AER22TS-4106 | Till | 1.57 | 609 | 3 | 14.1 | 4.8 | 13.2 | 9.4 | 12.8 | 78.8 | 2 | 115.7 | 0.9 | 11.6 | 3.2 | 128 | 1.3 | 352.9 | 33.1 | 39.1 | 78.6 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | | |
| AER22TS-2007 | Till | 1.67 | 711 | 2 | 6.1 | 4.1 | 10.9 | 4.9 | 8.7 | 66.5 | <1 | 252.9 | 0.8 | 11.0 | 2.8 | 87 | 1.2 | 177.8 | 19.7 | 34.2 | 65.0 |
| REP AER22TS-2007 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-2010 | Till | 1.56 | 467 | <1 | 8.0 | 3.8 | 10.9 | 6.2 | 8.3 | 60.8 | 1 | 231.3 | 0.7 | 11.0 | 2.5 | 78 | 0.8 | 206.3 | 19.8 | 35.6 | 68.7 |
| REP AER22TS-2010 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-2012 | Till | 1.52 | 1419 | <1 | 2.6 | 8.1 | 14.8 | 3.8 | 16.6 | 107.9 | 2 | 292.8 | 1.1 | 14.3 | 6.9 | 269 | 1.0 | 147.2 | 17.1 | 41.6 | 81.0 |
| REP AER22TS-2012 | QC | | 1382 | <1 | 2.6 | 7.7 | 15.3 | 4.1 | 16.9 | 108.6 | 2 | 293.6 | 1.0 | 14.1 | 6.4 | 258 | 1.4 | 143.4 | 16.8 | 42.3 | 77.1 |
| AER22TS-2015 | Till | 1.82 | 683 | 10 | 13.6 | 6.2 | 14.8 | 5.5 | 13.7 | 86.7 | 2 | 98.7 | 1.0 | 12.3 | 6.8 | 127 | 1.8 | 213.9 | 27.1 | 37.2 | 78.3 |
| REP AER22TS-2015 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4002 | Till | 1.14 | 647 | <1 | 14.8 | 6.1 | 16.7 | 4.0 | 10.2 | 108.8 | 1 | 175.7 | 0.7 | 11.1 | 3.4 | 131 | 1.5 | 147.7 | 19.9 | 36.6 | 71.3 |
| REP AER22TS-4002 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4005 | Till | 1.71 | 661 | 1 | 4.3 | 3.6 | 9.9 | 7.2 | 11.7 | 57.5 | 1 | 145.3 | 0.7 | 10.9 | 2.5 | 72 | 1.4 | 275.6 | 17.6 | 32.1 | 51.8 |
| REP AER22TS-4005 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4008 | Till | 1.48 | 711 | 6 | 11.7 | 5.9 | 15.1 | 5.5 | 11.6 | 96.6 | 2 | 153.1 | 0.8 | 11.8 | 3.8 | 150 | 1.7 | 212.1 | 24.0 | 36.8 | 71.6 |
| REP AER22TS-4008 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4015 | Till | 2.05 | 857 | 2 | 9.0 | 5.8 | 13.1 | 4.6 | 14.2 | 96.3 | 1 | 151.8 | 0.8 | 9.9 | 4.0 | 167 | 1.2 | 183.9 | 27.9 | 35.3 | 66.2 |
| REP AER22TS-4015 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4023 | Till | 1.81 | 707 | 2 | 12.9 | 4.8 | 12.7 | 6.1 | 12.5 | 79.4 | 1 | 130.2 | 0.8 | 10.7 | 4.0 | 128 | 1.3 | 229.2 | 22.7 | 31.1 | 64.0 |
| REP AER22TS-4023 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4028 | Till | 1.43 | 1403 | <1 | 14.5 | 5.8 | 14.7 | 5.7 | 13.4 | 89.1 | 2 | 150.7 | 0.7 | 11.1 | 3.6 | 149 | 1.4 | 221.7 | 33.8 | 40.4 | 77.4 |
| REP AER22TS-4028 | QC | | 1467 | <1 | 13.4 | 6.1 | 13.6 | 6.0 | 13.6 | 91.3 | 2 | 149.3 | 0.9 | 11.5 | 3.5 | 145 | 2.2 | 223.4 | 34.7 | 42.0 | 80.1 |
| AER22TS-4038 | Till | 2.61 | 559 | <1 | 10.2 | 2.4 | 9.2 | 14.6 | 13.3 | 55.5 | 1 | 117.1 | 1.0 | 9.9 | 3.0 | 69 | 1.0 | 606.7 | 31.2 | 35.6 | 75.8 |
| REP AER22TS-4038 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4039 | Till | 1.85 | 628 | <1 | 12.2 | 4.0 | 12.6 | 9.5 | 13.4 | 74.2 | 2 | 123.4 | 0.9 | 9.7 | 3.2 | 95 | 1.7 | 411.5 | 28.3 | 37.0 | 74.6 |
| REP AER22TS-4039 | QC | | | | | | | | | | | | | | | | | | | | |



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QUALITY CONTROL REPORT

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| | Method Analyte Unit MDL | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |
|------------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu | Mo | Cu | Pb | Zn | Ni | As | Cd | Sb |
| | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | | 0.02 | 0.3 | 0.05 | 0.02 | 0.05 | 0.01 | 0.05 | 0.02 | 0.03 | 0.01 | 0.05 | 0.01 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.5 | 0.1 | 0.1 |
| AER22TS-4012 | Till | 8.01 | 30.2 | 5.38 | 1.16 | 4.84 | 0.67 | 4.02 | 0.81 | 2.55 | 0.35 | 2.06 | 0.33 | 2.2 | 32.4 | 14.1 | 98 | 45.6 | 10.3 | 0.6 | 0.2 |
| AER22TS-4051 | Till | 8.00 | 28.9 | 5.60 | 1.20 | 5.46 | 0.79 | 4.69 | 1.04 | 2.98 | 0.41 | 2.77 | 0.43 | 1.4 | 26.0 | 15.6 | 102 | 33.3 | 11.9 | 0.3 | 0.2 |
| AER22TS-4089 | Till | 6.20 | 23.4 | 4.74 | 1.13 | 4.53 | 0.67 | 3.79 | 0.79 | 2.46 | 0.36 | 2.36 | 0.34 | 0.8 | 26.4 | 10.8 | 76 | 32.1 | 8.7 | 0.3 | 0.3 |
| AER22TS-4106 | Till | 8.79 | 33.3 | 6.23 | 1.28 | 6.00 | 0.91 | 5.70 | 1.14 | 3.40 | 0.50 | 3.32 | 0.54 | 5.0 | 24.3 | 15.7 | 80 | 33.9 | 13.7 | 0.4 | 0.4 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | | |
| AER22TS-2007 | Till | 7.25 | 26.3 | 4.68 | 0.97 | 4.22 | 0.60 | 3.60 | 0.69 | 2.06 | 0.30 | 2.00 | 0.30 | 0.6 | 18.8 | 8.8 | 42 | 19.6 | 8.8 | 0.1 | 0.2 |
| REP AER22TS-2007 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-2010 | Till | 7.60 | 27.0 | 5.03 | 1.00 | 4.29 | 0.62 | 3.55 | 0.66 | 2.02 | 0.31 | 2.09 | 0.31 | 0.9 | 21.1 | 11.6 | 53 | 24.7 | 9.5 | 0.1 | 0.2 |
| REP AER22TS-2010 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-2012 | Till | 8.58 | 27.5 | 4.41 | 0.91 | 3.21 | 0.49 | 2.95 | 0.65 | 2.01 | 0.32 | 2.14 | 0.35 | 9.7 | 55.5 | 22.5 | 82 | 8.8 | 11.6 | 0.2 | 0.3 |
| REP AER22TS-2012 | QC | 8.29 | 28.8 | 4.32 | 0.90 | 3.21 | 0.46 | 2.94 | 0.62 | 2.03 | 0.31 | 2.18 | 0.37 | | | | | | | | |
| AER22TS-2015 | Till | 9.05 | 34.8 | 7.04 | 1.48 | 6.39 | 0.93 | 5.57 | 1.11 | 3.18 | 0.44 | 2.87 | 0.42 | 4.2 | 34.4 | 16.6 | 142 | 37.9 | 15.3 | 0.2 | 0.2 |
| REP AER22TS-2015 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4002 | Till | 7.71 | 28.9 | 5.26 | 1.05 | 4.26 | 0.59 | 3.49 | 0.72 | 2.07 | 0.31 | 2.03 | 0.30 | 1.4 | 25.5 | 13.7 | 80 | 39.8 | 7.6 | 0.4 | 0.1 |
| REP AER22TS-4002 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4005 | Till | 5.21 | 19.0 | 3.31 | 0.65 | 2.96 | 0.47 | 2.85 | 0.68 | 1.94 | 0.31 | 1.99 | 0.31 | 0.9 | 12.1 | 17.8 | 37 | 3.0 | 17.0 | <0.1 | <0.1 |
| REP AER22TS-4005 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4008 | Till | 8.12 | 30.3 | 5.72 | 1.11 | 5.06 | 0.72 | 4.19 | 0.88 | 2.58 | 0.36 | 2.34 | 0.36 | 1.8 | 30.6 | 14.4 | 95 | 33.2 | 11.2 | 0.4 | 0.2 |
| REP AER22TS-4008 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4015 | Till | 7.86 | 28.5 | 5.83 | 1.12 | 5.06 | 0.76 | 4.69 | 0.93 | 2.78 | 0.37 | 2.48 | 0.39 | 2.8 | 35.1 | 15.0 | 108 | 29.2 | 12.9 | 0.5 | 0.2 |
| REP AER22TS-4015 | QC | | | | | | | | | | | | | 2.8 | 34.9 | 15.1 | 107 | 28.9 | 12.7 | 0.5 | 0.2 |
| AER22TS-4023 | Till | 7.11 | 27.2 | 4.99 | 1.03 | 4.56 | 0.71 | 4.35 | 0.88 | 2.53 | 0.35 | 2.43 | 0.35 | 2.3 | 28.6 | 15.7 | 101 | 34.4 | 13.2 | 0.5 | 0.2 |
| REP AER22TS-4023 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4028 | Till | 9.28 | 35.6 | 6.89 | 1.50 | 6.59 | 0.95 | 5.42 | 1.12 | 3.25 | 0.45 | 2.98 | 0.45 | 3.1 | 32.1 | 16.5 | 103 | 44.7 | 14.4 | 0.7 | 0.2 |
| REP AER22TS-4028 | QC | 9.56 | 34.9 | 7.15 | 1.41 | 6.39 | 0.97 | 5.54 | 1.14 | 3.57 | 0.46 | 3.11 | 0.47 | | | | | | | | |
| AER22TS-4038 | Till | 8.14 | 31.7 | 5.91 | 1.08 | 5.38 | 0.83 | 5.18 | 1.06 | 3.38 | 0.47 | 3.20 | 0.53 | 0.7 | 14.0 | 9.8 | 59 | 19.1 | 8.9 | 0.1 | 0.2 |
| REP AER22TS-4038 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4039 | Till | 8.15 | 30.0 | 5.96 | 1.19 | 5.45 | 0.83 | 5.11 | 1.04 | 3.25 | 0.48 | 3.09 | 0.42 | 0.7 | 18.6 | 12.2 | 73 | 24.2 | 10.2 | 0.2 | 0.1 |
| REP AER22TS-4039 | QC | | | | | | | | | | | | | | | | | | | | |



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March 07, 2023

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QUALITY CONTROL REPORT

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| | Method Analyte Unit MDL | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 |
|------------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Bi | Ag | Au | Hg | Tl | Se | SiO2 | Al2O3 | Fe2O3 | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | MnO | Cr2O3 | Ba | Ni | Sr |
| | | ppm | ppm | ppb | ppm | ppm | ppm | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm |
| | | 0.1 | 0.1 | 0.5 | 0.01 | 0.1 | 0.5 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.002 | 5 | 20 | 2 |
| AER22TS-4012 | Till | 0.2 | 0.3 | 1.3 | 0.05 | 0.2 | 3.2 | 55.82 | 13.91 | 4.99 | 2.86 | 5.45 | 0.55 | 2.71 | 0.64 | 0.19 | 0.07 | 0.012 | 796 | 49 | 181 |
| AER22TS-4051 | Till | 0.3 | 0.2 | 0.7 | 0.07 | 0.2 | 1.0 | 67.69 | 12.50 | 4.70 | 1.35 | 1.32 | 0.68 | 2.26 | 0.74 | 0.19 | 0.06 | 0.013 | 858 | 39 | 151 |
| AER22TS-4089 | Till | 0.2 | 0.1 | 3.1 | 0.06 | 0.2 | <0.5 | 61.49 | 13.79 | 4.64 | 1.69 | 2.79 | 0.93 | 1.76 | 0.70 | 0.15 | 0.07 | 0.014 | 959 | 35 | 155 |
| AER22TS-4106 | Till | 0.2 | 0.1 | 1.4 | 0.05 | 0.3 | <0.5 | 68.41 | 12.11 | 5.56 | 1.16 | 0.91 | 0.59 | 1.97 | 0.71 | 0.20 | 0.06 | 0.011 | 612 | 40 | 112 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | | |
| AER22TS-2007 | Till | 0.1 | <0.1 | 1.4 | 0.03 | 0.2 | <0.5 | 51.91 | 10.12 | 3.64 | 2.21 | 13.12 | 0.70 | 1.96 | 0.45 | 0.15 | 0.04 | 0.008 | 805 | 23 | 281 |
| REP AER22TS-2007 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-2010 | Till | 0.1 | <0.1 | 0.9 | 0.03 | 0.2 | <0.5 | 51.75 | 11.09 | 4.44 | 2.13 | 13.29 | 0.74 | 2.11 | 0.51 | 0.18 | 0.05 | 0.010 | 590 | 31 | 289 |
| REP AER22TS-2010 | QC | | | | | | | 52.29 | 10.94 | 4.37 | 2.08 | 13.06 | 0.76 | 2.06 | 0.50 | 0.18 | 0.05 | 0.012 | 590 | 30 | 285 |
| AER22TS-2012 | Till | 0.3 | 0.6 | 4.3 | 0.18 | 0.5 | 3.6 | 63.40 | 13.74 | 3.99 | 0.92 | 1.04 | 0.31 | 2.92 | 0.71 | 0.33 | <0.01 | 0.016 | 1566 | <20 | 320 |
| REP AER22TS-2012 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-2015 | Till | 0.3 | 0.1 | 1.9 | 0.06 | 0.3 | 1.9 | 66.64 | 13.35 | 5.96 | 1.02 | 0.38 | 0.55 | 2.10 | 0.72 | 0.14 | 0.05 | 0.011 | 715 | 44 | 107 |
| REP AER22TS-2015 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4002 | Till | 0.3 | 0.1 | 0.8 | 0.03 | 0.1 | 0.8 | 49.24 | 14.40 | 4.62 | 3.63 | 8.33 | 0.56 | 3.01 | 0.57 | 0.14 | 0.07 | 0.012 | 698 | 47 | 186 |
| REP AER22TS-4002 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4005 | Till | 0.3 | <0.1 | <0.5 | 0.01 | 0.2 | 1.0 | 75.19 | 8.93 | 4.25 | 0.64 | 0.34 | 0.59 | 1.54 | 0.60 | 0.15 | <0.01 | 0.006 | 738 | <20 | 166 |
| REP AER22TS-4005 | QC | | | | | | | 76.06 | 8.54 | 3.98 | 0.60 | 0.32 | 0.57 | 1.47 | 0.58 | 0.14 | <0.01 | 0.006 | 698 | <20 | 158 |
| AER22TS-4008 | Till | 0.2 | 0.2 | 1.7 | 0.06 | 0.3 | 0.8 | 58.94 | 13.56 | 4.95 | 2.48 | 4.35 | 0.52 | 2.49 | 0.59 | 0.19 | 0.05 | 0.012 | 778 | 44 | 164 |
| REP AER22TS-4008 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4015 | Till | 0.2 | 0.4 | 2.1 | 0.10 | 0.2 | 2.1 | 63.39 | 12.31 | 4.66 | 1.96 | 3.31 | 0.49 | 2.48 | 0.63 | 0.23 | 0.03 | 0.013 | 927 | 38 | 158 |
| REP AER22TS-4015 | QC | 0.2 | 0.4 | 2.2 | 0.10 | 0.2 | 2.2 | | | | | | | | | | | | | | |
| AER22TS-4023 | Till | 0.2 | 0.2 | 1.7 | 0.07 | 0.3 | 1.0 | 63.23 | 11.41 | 4.73 | 2.24 | 4.17 | 0.58 | 2.20 | 0.62 | 0.18 | 0.06 | 0.010 | 728 | 46 | 137 |
| REP AER22TS-4023 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4028 | Till | 0.3 | 0.4 | 1.8 | 0.09 | 0.3 | 0.8 | 60.38 | 12.14 | 5.21 | 1.62 | 4.37 | 0.47 | 2.15 | 0.63 | 0.18 | 0.06 | 0.011 | 1382 | 51 | 142 |
| REP AER22TS-4028 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4038 | Till | 0.1 | <0.1 | 0.9 | 0.04 | 0.1 | <0.5 | 74.16 | 7.82 | 3.73 | 1.53 | 2.45 | 0.79 | 1.63 | 0.69 | 0.16 | 0.05 | 0.007 | 514 | 24 | 106 |
| REP AER22TS-4038 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4039 | Till | 0.2 | 0.1 | 0.9 | 0.04 | 0.2 | <0.5 | 69.76 | 10.54 | 4.58 | 1.57 | 1.85 | 0.74 | 1.97 | 0.70 | 0.17 | 0.06 | 0.009 | 579 | 32 | 113 |
| REP AER22TS-4039 | QC | | | | | | | | | | | | | | | | | | | | |



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March 07, 2023

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QUALITY CONTROL REPORT

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| | Method Analyte Unit MDL | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | TC000 | TC005 | TC005 | TC006 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|------------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Zr | Y | Nb | Sc | LOI | Sum | TOT/C | C/ORG | C/GRA | CO2 | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As |
| | | ppm | ppm | ppm | ppm | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppb | ppm | ppm | ppm | % | ppm |
| | | 5 | 3 | 5 | 1 | -5.1 | 0.01 | 0.02 | 0.02 | 0.02 | 0.08 | 0.01 | 0.01 | 0.01 | 0.1 | 2 | 0.1 | 0.1 | 1 | 0.01 | 0.1 |
| AER22TS-4012 | Till | 166 | 24 | 12 | 13 | 12.6 | 99.90 | 2.14 | 1.01 | <0.02 | 4.10 | 2.81 | 31.94 | 14.35 | 99.1 | 244 | 43.4 | 17.5 | 515 | 2.50 | 10.2 |
| AER22TS-4051 | Till | 326 | 27 | 11 | 11 | 8.3 | 99.94 | 1.38 | 1.24 | 0.03 | 0.44 | 1.45 | 24.29 | 15.28 | 96.1 | 160 | 30.4 | 16.3 | 437 | 2.33 | 11.0 |
| AER22TS-4089 | Till | 228 | 23 | 10 | 13 | 11.7 | 99.94 | 1.53 | 1.13 | 0.02 | 1.38 | 0.95 | 25.76 | 10.88 | 73.9 | 91 | 29.9 | 13.6 | 480 | 2.02 | 8.3 |
| AER22TS-4106 | Till | 393 | 32 | 15 | 11 | 8.1 | 99.94 | 0.53 | 0.48 | 0.02 | 0.10 | 5.45 | 24.86 | 15.22 | 81.0 | 131 | 32.8 | 12.6 | 401 | 2.86 | 13.3 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | | |
| AER22TS-2007 | Till | 199 | 21 | 12 | 8 | 15.5 | 99.93 | 3.27 | 0.88 | <0.02 | 8.73 | 0.62 | 17.92 | 8.51 | 39.0 | 59 | 17.9 | 5.6 | 228 | 1.76 | 8.5 |
| REP AER22TS-2007 | QC | | | | | | | | | <0.02 | | | | | | | | | | | |
| AER22TS-2010 | Till | 286 | 23 | 13 | 9 | 13.4 | 99.89 | 1.84 | 0.63 | <0.02 | 4.42 | 1.00 | 19.30 | 10.97 | 48.3 | 60 | 22.2 | 8.0 | 299 | 1.98 | 8.9 |
| REP AER22TS-2010 | QC | 272 | 20 | 12 | 9 | 13.4 | 99.88 | | | | | | | | | | | | | | |
| AER22TS-2012 | Till | 169 | 18 | 18 | 15 | 12.3 | 99.91 | 3.01 | 2.92 | 0.06 | 0.11 | 9.67 | 46.09 | 18.42 | 64.9 | 508 | 7.2 | 1.4 | 10 | 1.53 | 9.6 |
| REP AER22TS-2012 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-2015 | Till | 249 | 29 | 17 | 14 | 8.9 | 99.93 | 0.84 | 0.80 | 0.02 | <0.08 | 5.13 | 32.89 | 15.73 | 136.7 | 127 | 34.7 | 13.7 | 317 | 2.97 | 14.8 |
| REP AER22TS-2015 | QC | | | | | | | | | | | 5.08 | 32.71 | 15.78 | 130.2 | 129 | 34.5 | 13.8 | 312 | 2.93 | 14.5 |
| AER22TS-4002 | Till | 163 | 20 | 15 | 13 | 15.2 | 99.90 | 3.20 | 1.22 | <0.02 | 7.20 | 1.69 | 24.79 | 12.81 | 76.4 | 108 | 36.0 | 14.1 | 481 | 2.24 | 7.1 |
| REP AER22TS-4002 | QC | | | | | | | 3.20 | | | | | | | | | | | | | |
| AER22TS-4005 | Till | 331 | 18 | 12 | 7 | 7.6 | 99.97 | 0.46 | 0.42 | 0.03 | <0.08 | 1.13 | 12.16 | 17.07 | 35.3 | 20 | 3.0 | 3.9 | 14 | 1.98 | 16.8 |
| REP AER22TS-4005 | QC | 323 | 17 | 12 | 7 | 7.6 | 99.98 | | | | | | | | | | | | | | |
| AER22TS-4008 | Till | 235 | 25 | 17 | 12 | 11.6 | 99.91 | 1.72 | 0.86 | <0.02 | 3.09 | 2.29 | 28.32 | 13.46 | 88.4 | 173 | 30.4 | 11.4 | 286 | 2.32 | 10.5 |
| REP AER22TS-4008 | QC | | | | | | | | | | 3.13 | | | | | | | | | | |
| AER22TS-4015 | Till | 214 | 27 | 12 | 12 | 10.3 | 99.92 | 1.84 | 1.21 | 0.03 | 2.18 | 3.71 | 36.42 | 17.25 | 113.7 | 397 | 29.9 | 8.9 | 220 | 2.45 | 14.6 |
| REP AER22TS-4015 | QC | | | | | | | | | | | 3.57 | 35.65 | 16.89 | 107.8 | 424 | 30.1 | 8.4 | 218 | 2.44 | 14.2 |
| AER22TS-4023 | Till | 256 | 25 | 13 | 10 | 10.3 | 99.91 | 1.52 | 0.73 | <0.02 | 2.82 | 2.44 | 27.35 | 15.47 | 101.5 | 178 | 33.4 | 12.5 | 438 | 2.45 | 12.4 |
| REP AER22TS-4023 | QC | | | | | | | | | <0.02 | | | | | | | | | | | |
| AER22TS-4028 | Till | 240 | 35 | 12 | 12 | 12.5 | 99.93 | 2.20 | 1.41 | <0.02 | 2.83 | 3.23 | 30.82 | 15.59 | 100.5 | 387 | 41.8 | 12.6 | 401 | 2.78 | 13.5 |
| REP AER22TS-4028 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4038 | Till | 620 | 29 | 11 | 7 | 6.8 | 99.97 | 1.11 | 0.54 | <0.02 | 2.05 | 0.74 | 14.39 | 10.18 | 58.6 | 77 | 18.7 | 8.8 | 312 | 2.10 | 8.4 |
| REP AER22TS-4038 | QC | | | | | | | 1.14 | | | | | | | | | | | | | |
| AER22TS-4039 | Till | 433 | 29 | 14 | 10 | 7.9 | 99.94 | 1.09 | 0.71 | <0.02 | 1.33 | 0.81 | 17.87 | 12.65 | 70.4 | 109 | 23.1 | 11.0 | 399 | 2.38 | 9.5 |
| REP AER22TS-4039 | QC | | | | | | | | | | | 0.80 | 17.71 | 12.02 | 70.0 | 110 | 22.9 | 10.7 | 399 | 2.37 | 9.4 |



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| Method Analyte Unit MDL | | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|----------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| | | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W |
| | | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm |
| | | 0.1 | 0.2 | 0.1 | 0.5 | 0.01 | 0.02 | 0.02 | 1 | 0.01 | 0.001 | 0.5 | 0.5 | 0.01 | 0.5 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 |
| AER22TS-4012 | Till | 2.6 | 1.9 | 6.9 | 93.0 | 0.67 | 0.69 | 0.24 | 40 | 3.48 | 0.070 | 16.2 | 25.5 | 1.21 | 269.4 | 0.005 | 12 | 1.26 | 0.043 | 0.26 | <0.1 |
| AER22TS-4051 | Till | 1.7 | 0.7 | 6.3 | 68.5 | 0.24 | 0.37 | 0.24 | 26 | 0.78 | 0.071 | 15.8 | 17.8 | 0.43 | 242.8 | 0.005 | 15 | 0.93 | 0.027 | 0.16 | <0.1 |
| AER22TS-4089 | Till | 0.9 | 1.8 | 5.1 | 53.7 | 0.26 | 0.49 | 0.16 | 29 | 1.67 | 0.055 | 15.8 | 18.3 | 0.56 | 448.4 | 0.007 | 7 | 1.03 | 0.010 | 0.12 | <0.1 |
| AER22TS-4106 | Till | 1.1 | 1.7 | 7.5 | 33.7 | 0.40 | 0.63 | 0.23 | 36 | 0.47 | 0.075 | 22.3 | 18.6 | 0.34 | 160.3 | 0.005 | 10 | 0.99 | 0.008 | 0.15 | <0.1 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | | |
| AER22TS-2007 | Till | 1.4 | 1.8 | 5.8 | 135.2 | 0.13 | 0.41 | 0.13 | 31 | 7.49 | 0.054 | 15.2 | 22.3 | 0.87 | 280.0 | 0.014 | 16 | 1.18 | 0.100 | 0.23 | <0.1 |
| REP AER22TS-2007 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-2010 | Till | 1.0 | 1.8 | 6.5 | 111.4 | 0.12 | 0.46 | 0.14 | 34 | 6.66 | 0.054 | 17.3 | 26.5 | 0.74 | 61.4 | 0.030 | 15 | 1.23 | 0.022 | 0.25 | <0.1 |
| REP AER22TS-2010 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-2012 | Till | 3.2 | 5.0 | 8.4 | 177.3 | 0.14 | 0.62 | 0.26 | 37 | 0.57 | 0.100 | 14.0 | 11.3 | 0.06 | 162.5 | <0.001 | 12 | 0.42 | 0.035 | 0.24 | <0.1 |
| REP AER22TS-2012 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-2015 | Till | 3.9 | 2.0 | 8.2 | 32.8 | 0.18 | 0.68 | 0.30 | 31 | 0.16 | 0.051 | 20.6 | 17.7 | 0.24 | 220.2 | 0.002 | 5 | 1.13 | 0.008 | 0.13 | <0.1 |
| REP AER22TS-2015 | QC | 3.9 | 3.1 | 8.3 | 32.6 | 0.18 | 0.69 | 0.30 | 30 | 0.16 | 0.050 | 20.1 | 18.0 | 0.23 | 214.3 | 0.002 | 5 | 1.11 | 0.007 | 0.12 | <0.1 |
| AER22TS-4002 | Till | 1.5 | 0.9 | 7.6 | 96.6 | 0.35 | 0.41 | 0.23 | 36 | 5.30 | 0.056 | 17.4 | 27.5 | 1.58 | 251.4 | 0.007 | 14 | 1.41 | 0.035 | 0.33 | <0.1 |
| REP AER22TS-4002 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4005 | Till | 0.8 | 1.0 | 7.7 | 107.5 | <0.01 | 0.26 | 0.27 | 13 | 0.20 | 0.056 | 18.1 | 5.7 | 0.07 | 267.4 | 0.001 | 4 | 0.45 | 0.128 | 0.13 | <0.1 |
| REP AER22TS-4005 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4008 | Till | 1.7 | 2.0 | 7.6 | 66.1 | 0.42 | 0.54 | 0.23 | 38 | 2.47 | 0.065 | 17.3 | 23.1 | 0.92 | 254.3 | 0.004 | 12 | 1.25 | 0.013 | 0.25 | <0.1 |
| REP AER22TS-4008 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4015 | Till | 2.3 | 2.8 | 8.7 | 84.6 | 0.63 | 0.68 | 0.29 | 37 | 2.14 | 0.093 | 19.1 | 20.8 | 0.77 | 382.9 | 0.005 | 17 | 1.03 | 0.018 | 0.23 | <0.1 |
| REP AER22TS-4015 | QC | 2.3 | 2.0 | 8.4 | 85.6 | 0.58 | 0.68 | 0.29 | 37 | 2.12 | 0.094 | 18.3 | 20.1 | 0.77 | 384.2 | 0.004 | 17 | 1.04 | 0.018 | 0.23 | <0.1 |
| AER22TS-4023 | Till | 1.9 | 1.5 | 7.1 | 61.5 | 0.48 | 0.44 | 0.23 | 31 | 2.76 | 0.075 | 16.3 | 17.7 | 0.96 | 224.7 | 0.005 | 12 | 0.99 | 0.009 | 0.19 | <0.1 |
| REP AER22TS-4023 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4028 | Till | 1.6 | 1.8 | 7.6 | 73.9 | 0.61 | 0.49 | 0.25 | 37 | 2.96 | 0.072 | 23.8 | 21.9 | 0.59 | 897.4 | 0.004 | 13 | 1.20 | 0.009 | 0.20 | <0.1 |
| REP AER22TS-4028 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4038 | Till | 0.9 | 1.3 | 6.2 | 27.4 | 0.13 | 0.24 | 0.13 | 20 | 1.56 | 0.064 | 19.7 | 11.7 | 0.73 | 116.9 | 0.009 | 8 | 0.68 | 0.007 | 0.11 | <0.1 |
| REP AER22TS-4038 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4039 | Till | 1.0 | 1.0 | 6.6 | 35.5 | 0.17 | 0.26 | 0.17 | 26 | 1.14 | 0.067 | 20.6 | 16.4 | 0.65 | 147.0 | 0.007 | 12 | 0.94 | 0.008 | 0.15 | <0.1 |
| REP AER22TS-4039 | QC | 1.0 | 1.0 | 6.2 | 34.8 | 0.17 | 0.26 | 0.16 | 26 | 1.14 | 0.066 | 19.9 | 16.6 | 0.65 | 138.5 | 0.007 | 12 | 0.95 | 0.009 | 0.16 | <0.1 |



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| Method Analyte Unit MDL | | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|----------------------------------|------|------------|-------------|-----------|----------|------------|-------------|------------|-------------|------------|-------------|-------------|------------|------------|-------------|------------|-------------|------------|-------------|----------|------------|
| | | Sc | Ti | S | Hg | Se | Te | Ga | Cs | Ge | Hf | Nb | Rb | Sn | Ta | Zr | Y | Ce | In | Re | Be |
| | | ppm 0.1 | ppm 0.02 | % 0.02 | ppb 5 | ppm 0.1 | ppm 0.02 | ppm 0.1 | ppm 0.02 | ppm 0.1 | ppm 0.02 | ppm 0.02 | ppm 0.1 | ppm 0.1 | ppm 0.05 | ppm 0.1 | ppm 0.01 | ppm 0.1 | ppm 0.02 | ppb 1 | ppm 0.1 |
| AER22TS-4012 | Till | 4.8 | 0.25 | 0.38 | 49 | 3.0 | 0.07 | 4.1 | 1.62 | <0.1 | 0.25 | 0.15 | 20.8 | 0.5 | <0.05 | 11.9 | 13.66 | 35.1 | 0.03 | 10 | 0.7 |
| AER22TS-4051 | Till | 3.7 | 0.15 | 0.75 | 68 | 0.9 | 0.06 | 3.3 | 1.55 | <0.1 | 0.22 | 0.07 | 18.1 | 0.9 | <0.05 | 10.7 | 14.23 | 33.1 | 0.03 | 4 | 0.7 |
| AER22TS-4089 | Till | 4.2 | 0.17 | <0.02 | 49 | 0.5 | 0.04 | 3.6 | 1.07 | <0.1 | 0.20 | 0.16 | 13.2 | 0.5 | <0.05 | 10.4 | 12.87 | 33.4 | 0.04 | 1 | 0.7 |
| AER22TS-4106 | Till | 4.0 | 0.35 | <0.02 | 52 | 0.5 | 0.07 | 3.5 | 1.38 | <0.1 | 0.15 | 0.09 | 17.3 | 0.8 | <0.05 | 9.6 | 16.98 | 46.2 | 0.03 | <1 | 0.9 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | | |
| AER22TS-2007 | Till | 3.4 | 0.17 | 0.54 | 34 | 0.4 | 0.04 | 3.5 | 1.37 | <0.1 | 0.24 | 0.26 | 19.8 | 0.5 | <0.05 | 15.2 | 10.10 | 31.0 | <0.02 | <1 | 0.5 |
| REP AER22TS-2007 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-2010 | Till | 4.0 | 0.17 | 2.42 | 35 | 0.4 | 0.06 | 3.9 | 1.59 | <0.1 | 0.49 | 0.32 | 19.6 | 0.5 | <0.05 | 23.5 | 10.28 | 35.3 | <0.02 | <1 | 0.5 |
| REP AER22TS-2010 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-2012 | Till | 4.9 | 0.52 | 0.72 | 155 | 2.9 | 0.11 | 1.8 | 1.33 | <0.1 | 0.15 | 0.14 | 12.6 | 0.5 | <0.05 | 6.5 | 5.45 | 29.4 | 0.06 | 24 | 0.3 |
| REP AER22TS-2012 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-2015 | Till | 6.2 | 0.26 | <0.02 | 58 | 1.7 | 0.10 | 3.7 | 1.68 | <0.1 | 0.09 | 0.14 | 17.6 | 0.7 | <0.05 | 5.6 | 16.45 | 49.9 | 0.05 | <1 | 0.9 |
| REP AER22TS-2015 | QC | 6.1 | 0.26 | <0.02 | 56 | 1.6 | 0.08 | 3.5 | 1.71 | <0.1 | 0.10 | 0.15 | 17.4 | 0.7 | <0.05 | 5.8 | 16.11 | 50.1 | 0.05 | <1 | 0.9 |
| AER22TS-4002 | Till | 5.0 | 0.16 | 0.29 | 25 | 0.8 | 0.05 | 4.4 | 1.61 | <0.1 | 0.26 | 0.09 | 23.1 | 0.6 | <0.05 | 11.6 | 11.81 | 37.7 | 0.03 | 3 | 0.7 |
| REP AER22TS-4002 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4005 | Till | 1.9 | 0.17 | 0.49 | 10 | 0.9 | 0.09 | 1.7 | 1.04 | <0.1 | 0.11 | 0.09 | 11.3 | 0.5 | <0.05 | 5.3 | 4.30 | 26.0 | 0.04 | 1 | 0.3 |
| REP AER22TS-4005 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4008 | Till | 4.6 | 0.27 | 0.24 | 58 | 0.6 | 0.08 | 3.9 | 1.72 | <0.1 | 0.19 | 0.13 | 20.2 | 0.6 | <0.05 | 10.1 | 14.09 | 36.9 | 0.03 | 3 | 0.7 |
| REP AER22TS-4008 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4015 | Till | 5.4 | 0.28 | 0.37 | 108 | 2.3 | 0.10 | 3.4 | 1.77 | <0.1 | 0.27 | 0.22 | 20.3 | 0.7 | <0.05 | 11.7 | 16.50 | 36.7 | 0.04 | 7 | 0.4 |
| REP AER22TS-4015 | QC | 5.2 | 0.26 | 0.37 | 116 | 2.0 | 0.06 | 3.4 | 1.67 | <0.1 | 0.21 | 0.20 | 20.0 | 0.6 | <0.05 | 10.5 | 16.69 | 36.6 | 0.04 | 6 | 0.5 |
| AER22TS-4023 | Till | 3.9 | 0.28 | 0.53 | 72 | 0.9 | 0.07 | 3.4 | 1.40 | <0.1 | 0.21 | 0.15 | 18.1 | 0.5 | <0.05 | 10.9 | 14.35 | 37.5 | 0.03 | 2 | 0.7 |
| REP AER22TS-4023 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4028 | Till | 4.9 | 0.25 | 0.07 | 75 | 0.7 | 0.07 | 4.0 | 1.45 | <0.1 | 0.19 | 0.21 | 20.9 | 0.6 | <0.05 | 10.8 | 24.74 | 45.3 | 0.04 | 1 | 0.9 |
| REP AER22TS-4028 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4038 | Till | 2.6 | 0.12 | <0.02 | 45 | 0.4 | 0.04 | 2.3 | 0.81 | <0.1 | 0.18 | 0.09 | 10.8 | 0.4 | <0.05 | 9.6 | 12.14 | 43.2 | <0.02 | <1 | 0.5 |
| REP AER22TS-4038 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4039 | Till | 3.6 | 0.17 | <0.02 | 48 | 0.4 | 0.04 | 3.3 | 1.18 | <0.1 | 0.20 | 0.09 | 15.2 | 0.7 | <0.05 | 10.3 | 13.90 | 44.6 | 0.03 | <1 | 0.7 |
| REP AER22TS-4039 | QC | 3.7 | 0.16 | <0.02 | 43 | 0.4 | 0.04 | 3.3 | 1.14 | <0.1 | 0.18 | 0.09 | 15.4 | 0.7 | <0.05 | 9.9 | 13.90 | 43.9 | 0.03 | 1 | 0.7 |



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| | Method Analyte Unit MDL | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|------------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Li | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu | Pd | Pt |
| | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppb | ppb |
| | | 0.1 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 10 | 2 |
| AER22TS-4012 | Till | 22.1 | 4.33 | 17.31 | 3.68 | 0.78 | 3.47 | 0.47 | 2.66 | 0.47 | 1.25 | 0.16 | 0.94 | 0.13 | <10 | <2 |
| AER22TS-4051 | Till | 16.6 | 4.27 | 16.99 | 3.60 | 0.75 | 3.39 | 0.46 | 2.70 | 0.49 | 1.30 | 0.17 | 1.01 | 0.14 | <10 | <2 |
| AER22TS-4089 | Till | 11.7 | 4.24 | 16.16 | 3.40 | 0.74 | 3.03 | 0.42 | 2.40 | 0.44 | 1.17 | 0.16 | 0.96 | 0.14 | <10 | <2 |
| AER22TS-4106 | Till | 11.2 | 5.90 | 22.51 | 4.55 | 0.88 | 4.05 | 0.55 | 3.09 | 0.57 | 1.50 | 0.20 | 1.23 | 0.17 | <10 | <2 |
| Pulp Duplicates | | | | | | | | | | | | | | | | |
| AER22TS-2007 | Till | 20.7 | 3.81 | 14.31 | 2.78 | 0.53 | 2.42 | 0.32 | 1.86 | 0.34 | 0.93 | 0.12 | 0.76 | 0.11 | <10 | <2 |
| REP AER22TS-2007 | QC | | | | | | | | | | | | | | | |
| AER22TS-2010 | Till | 24.6 | 4.32 | 16.05 | 3.01 | 0.58 | 2.60 | 0.35 | 1.98 | 0.36 | 0.97 | 0.13 | 0.82 | 0.12 | <10 | <2 |
| REP AER22TS-2010 | QC | | | | | | | | | | | | | | | |
| AER22TS-2012 | Till | 2.4 | 3.37 | 10.95 | 2.10 | 0.43 | 1.68 | 0.21 | 1.24 | 0.21 | 0.57 | 0.08 | 0.45 | 0.06 | <10 | <2 |
| REP AER22TS-2012 | QC | | | | | | | | | | | | | | | |
| AER22TS-2015 | Till | 9.7 | 6.20 | 25.03 | 5.68 | 1.16 | 4.98 | 0.68 | 3.69 | 0.63 | 1.64 | 0.21 | 1.27 | 0.17 | <10 | <2 |
| REP AER22TS-2015 | QC | 9.6 | 6.10 | 24.62 | 5.62 | 1.15 | 4.87 | 0.66 | 3.64 | 0.64 | 1.62 | 0.21 | 1.28 | 0.17 | <10 | <2 |
| AER22TS-4002 | Till | 22.7 | 4.42 | 17.32 | 3.54 | 0.71 | 3.11 | 0.41 | 2.33 | 0.41 | 1.08 | 0.14 | 0.84 | 0.12 | <10 | <2 |
| REP AER22TS-4002 | QC | | | | | | | | | | | | | | | |
| AER22TS-4005 | Till | 2.3 | 2.61 | 9.96 | 1.92 | 0.33 | 1.38 | 0.17 | 0.96 | 0.16 | 0.43 | 0.06 | 0.36 | 0.05 | <10 | <2 |
| REP AER22TS-4005 | QC | | | | | | | | | | | | | | | |
| AER22TS-4008 | Till | 18.4 | 4.66 | 18.44 | 3.85 | 0.80 | 3.60 | 0.48 | 2.76 | 0.50 | 1.30 | 0.17 | 1.01 | 0.14 | <10 | <2 |
| REP AER22TS-4008 | QC | | | | | | | | | | | | | | | |
| AER22TS-4015 | Till | 15.7 | 5.10 | 20.36 | 4.51 | 1.01 | 4.08 | 0.61 | 3.52 | 0.64 | 1.63 | 0.22 | 1.31 | 0.17 | <10 | <2 |
| REP AER22TS-4015 | QC | 15.4 | 5.07 | 19.59 | 4.52 | 1.03 | 4.19 | 0.63 | 3.25 | 0.61 | 1.54 | 0.19 | 1.38 | 0.15 | <10 | <2 |
| AER22TS-4023 | Till | 13.6 | 4.46 | 17.27 | 3.64 | 0.75 | 3.44 | 0.46 | 2.65 | 0.48 | 1.28 | 0.16 | 0.97 | 0.14 | <10 | <2 |
| REP AER22TS-4023 | QC | | | | | | | | | | | | | | | |
| AER22TS-4028 | Till | 14.4 | 6.31 | 24.85 | 5.08 | 1.03 | 5.09 | 0.69 | 3.95 | 0.74 | 2.01 | 0.25 | 1.52 | 0.22 | <10 | <2 |
| REP AER22TS-4028 | QC | | | | | | | | | | | | | | | |
| AER22TS-4038 | Till | 8.3 | 5.19 | 19.68 | 3.80 | 0.68 | 3.22 | 0.42 | 2.33 | 0.41 | 1.11 | 0.14 | 0.86 | 0.12 | <10 | <2 |
| REP AER22TS-4038 | QC | | | | | | | | | | | | | | | |
| AER22TS-4039 | Till | 12.5 | 5.56 | 21.33 | 4.20 | 0.81 | 3.67 | 0.49 | 2.74 | 0.49 | 1.32 | 0.17 | 1.05 | 0.14 | <10 | <2 |
| REP AER22TS-4039 | QC | 12.6 | 5.35 | 20.59 | 4.10 | 0.79 | 3.55 | 0.47 | 2.64 | 0.47 | 1.27 | 0.16 | 1.00 | 0.14 | <10 | <2 |



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| | | WGHT | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 |
|------------------|-----------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Wgt | Ba | Be | Co | Cs | Ga | Hf | Nb | Rb | Sn | Sr | Ta | Th | U | V | W | Zr | Y | La | Ce |
| | | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | | 0.01 | 1 | 1 | 0.2 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 1 | 0.5 | 0.1 | 0.2 | 0.1 | 8 | 0.5 | 0.1 | 0.1 | 0.1 | 0.1 |
| AER22TS-4042 | Till | 2.01 | 588 | 6 | 12.4 | 3.4 | 10.1 | 13.4 | 13.3 | 57.4 | 2 | 114.2 | 0.8 | 11.0 | 3.2 | 78 | 1.1 | 542.6 | 34.5 | 37.0 | 73.3 |
| REP AER22TS-4042 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4045 | Till | 1.74 | 842 | 4 | 8.5 | 7.3 | 16.2 | 7.3 | 15.0 | 101.0 | 2 | 114.6 | 0.9 | 10.9 | 4.1 | 190 | 1.9 | 295.8 | 30.8 | 39.3 | 75.0 |
| REP AER22TS-4045 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4048 | Till | 2.05 | 645 | <1 | 10.6 | 3.4 | 11.3 | 11.0 | 13.0 | 69.3 | 1 | 156.9 | 1.2 | 9.6 | 3.8 | 92 | 1.4 | 439.7 | 28.4 | 33.7 | 67.6 |
| REP AER22TS-4048 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4052 | Till | 1.94 | 657 | 2 | 9.8 | 3.9 | 13.6 | 9.3 | 13.5 | 80.4 | 2 | 128.7 | 0.8 | 10.9 | 4.0 | 100 | 1.2 | 381.8 | 28.8 | 38.9 | 77.7 |
| REP AER22TS-4052 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4058 | Till | 1.68 | 584 | 2 | 9.9 | 3.9 | 12.6 | 8.5 | 11.8 | 69.9 | 3 | 149.8 | 0.9 | 10.8 | 4.0 | 115 | 1.7 | 298.7 | 28.9 | 34.3 | 67.0 |
| REP AER22TS-4058 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4064 | Till | 1.56 | 535 | 1 | 9.4 | 3.9 | 11.6 | 8.9 | 12.1 | 69.9 | 1 | 113.7 | 0.7 | 9.4 | 2.9 | 96 | 1.5 | 333.6 | 24.2 | 32.3 | 66.5 |
| REP AER22TS-4064 | QC | | 566 | 2 | 10.3 | 3.8 | 11.6 | 9.6 | 12.1 | 71.5 | 1 | 122.6 | 0.8 | 10.0 | 2.9 | 94 | 1.4 | 362.3 | 25.6 | 32.2 | 69.2 |
| AER22TS-4067 | Till | 1.62 | 618 | 4 | 7.1 | 4.1 | 13.2 | 9.8 | 13.2 | 69.5 | 2 | 110.6 | 0.9 | 11.7 | 3.5 | 127 | 1.7 | 384.3 | 37.1 | 39.5 | 75.2 |
| REP AER22TS-4067 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4074 | Till | 1.74 | 666 | 3 | 17.5 | 4.2 | 15.2 | 7.9 | 11.5 | 70.5 | 2 | 124.3 | 0.8 | 9.5 | 2.9 | 123 | 1.8 | 292.7 | 25.8 | 32.9 | 66.5 |
| REP AER22TS-4074 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4077 | Till | 2.04 | 578 | <1 | 16.8 | 4.8 | 14.2 | 7.7 | 14.5 | 82.2 | 2 | 148.4 | 1.0 | 10.0 | 4.5 | 135 | 1.2 | 307.2 | 28.1 | 32.7 | 67.8 |
| REP AER22TS-4077 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4080 | Till | 1.72 | 620 | 6 | 12.7 | 4.9 | 13.9 | 8.7 | 13.0 | 84.5 | 2 | 133.9 | 1.0 | 10.9 | 3.1 | 124 | 1.9 | 346.6 | 28.2 | 35.0 | 70.8 |
| REP AER22TS-4080 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4088 | Till | 2.02 | 619 | <1 | 12.2 | 4.8 | 13.5 | 10.5 | 13.6 | 74.6 | 1 | 116.4 | 1.0 | 11.8 | 3.2 | 114 | 1.4 | 410.0 | 31.2 | 38.2 | 77.0 |
| REP AER22TS-4088 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4091 | Till | 1.41 | 743 | 2 | 11.7 | 4.2 | 15.1 | 5.6 | 9.0 | 61.9 | 1 | 149.9 | 0.7 | 8.6 | 2.7 | 143 | 1.1 | 209.3 | 25.0 | 27.4 | 54.8 |
| REP AER22TS-4091 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4098 | Rock Pulp | 0.07 | 444 | 5 | 48.9 | 1.8 | 11.4 | 4.1 | 15.3 | 34.5 | 7 | 385.7 | 0.4 | 3.6 | 0.7 | 54 | <0.5 | 152.7 | 10.4 | 30.7 | 56.4 |
| REP AER22TS-4098 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4099 | Till | 1.60 | 691 | <1 | 13.6 | 4.1 | 13.5 | 8.5 | 10.9 | 63.3 | 2 | 154.0 | 0.7 | 10.4 | 3.2 | 119 | 0.9 | 308.2 | 29.4 | 33.5 | 68.8 |
| REP AER22TS-4099 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4102 | Till | 1.86 | 631 | 1 | 12.1 | 3.8 | 11.6 | 11.6 | 12.9 | 65.6 | 3 | 123.8 | 0.9 | 11.1 | 3.1 | 104 | 1.4 | 435.9 | 32.2 | 39.9 | 76.5 |



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| | | LF100 Pr ppm 0.02 | LF100 Nd ppm 0.3 | LF100 Sm ppm 0.05 | LF100 Eu ppm 0.02 | LF100 Gd ppm 0.05 | LF100 Tb ppm 0.01 | LF100 Dy ppm 0.05 | LF100 Ho ppm 0.02 | LF100 Er ppm 0.03 | LF100 Tm ppm 0.01 | LF100 Yb ppm 0.05 | LF100 Lu ppm 0.01 | AQ200 Mo ppm 0.1 | AQ200 Cu ppm 0.1 | AQ200 Pb ppm 0.1 | AQ200 Zn ppm 1 | AQ200 Ni ppm 0.1 | AQ200 As ppm 0.5 | AQ200 Cd ppm 0.1 | AQ200 Sb ppm 0.1 |
|------------------|-----------|----------------------------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|---------------------------|---------------------------|---------------------------|-------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| AER22TS-4042 | Till | 8.59 | 33.5 | 6.61 | 1.27 | 6.20 | 0.96 | 5.98 | 1.25 | 3.74 | 0.57 | 3.72 | 0.59 | 0.7 | 17.0 | 12.6 | 65 | 25.6 | 12.0 | 0.1 | 0.2 |
| REP AER22TS-4042 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4045 | Till | 9.02 | 35.5 | 7.23 | 1.59 | 6.64 | 0.97 | 5.86 | 1.23 | 3.72 | 0.52 | 3.55 | 0.51 | 1.1 | 25.3 | 13.9 | 96 | 26.1 | 13.7 | <0.1 | 0.2 |
| REP AER22TS-4045 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4048 | Till | 7.59 | 29.4 | 5.50 | 1.12 | 5.23 | 0.80 | 4.84 | 0.99 | 3.02 | 0.43 | 2.83 | 0.46 | 1.3 | 18.2 | 11.8 | 67 | 21.6 | 11.0 | 0.2 | 0.2 |
| REP AER22TS-4048 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4052 | Till | 8.69 | 32.0 | 6.23 | 1.26 | 5.51 | 0.83 | 4.90 | 1.02 | 3.04 | 0.46 | 2.91 | 0.46 | 1.4 | 20.2 | 13.0 | 71 | 24.7 | 10.1 | 0.2 | 0.2 |
| REP AER22TS-4052 | QC | | | | | | | | | | | | | 1.4 | 19.9 | 13.4 | 72 | 24.9 | 10.3 | 0.2 | 0.2 |
| AER22TS-4058 | Till | 7.87 | 30.9 | 5.55 | 1.19 | 5.47 | 0.82 | 4.81 | 1.06 | 2.95 | 0.44 | 2.87 | 0.43 | 1.8 | 26.9 | 13.7 | 66 | 32.5 | 9.7 | 0.1 | 0.4 |
| REP AER22TS-4058 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4064 | Till | 7.19 | 27.2 | 4.96 | 1.08 | 4.81 | 0.73 | 4.13 | 0.95 | 2.75 | 0.39 | 2.69 | 0.43 | 0.8 | 17.1 | 11.0 | 59 | 22.8 | 8.0 | 0.1 | 0.2 |
| REP AER22TS-4064 | QC | 7.50 | 28.6 | 5.52 | 1.05 | 5.01 | 0.78 | 4.52 | 0.92 | 2.89 | 0.41 | 2.94 | 0.42 | | | | | | | | |
| AER22TS-4067 | Till | 9.11 | 35.0 | 6.69 | 1.43 | 6.53 | 1.04 | 5.90 | 1.20 | 3.60 | 0.52 | 3.64 | 0.59 | 2.5 | 25.3 | 12.7 | 69 | 27.5 | 12.2 | 0.1 | 0.5 |
| REP AER22TS-4067 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4074 | Till | 7.41 | 28.6 | 5.43 | 1.12 | 4.87 | 0.77 | 4.46 | 0.90 | 2.73 | 0.40 | 2.54 | 0.41 | 1.6 | 30.3 | 15.0 | 88 | 42.5 | 11.5 | 0.3 | 0.4 |
| REP AER22TS-4074 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4077 | Till | 7.52 | 28.1 | 5.15 | 1.10 | 5.24 | 0.79 | 4.66 | 0.97 | 3.02 | 0.41 | 2.84 | 0.44 | 2.5 | 23.0 | 13.2 | 82 | 38.0 | 11.2 | 0.6 | 0.4 |
| REP AER22TS-4077 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4080 | Till | 7.89 | 29.5 | 5.56 | 1.15 | 5.11 | 0.78 | 4.77 | 0.99 | 2.96 | 0.45 | 2.91 | 0.43 | 2.2 | 23.0 | 13.3 | 85 | 29.2 | 12.7 | 0.3 | 0.3 |
| REP AER22TS-4080 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4088 | Till | 8.79 | 33.5 | 5.87 | 1.28 | 5.54 | 0.88 | 5.23 | 1.07 | 3.18 | 0.47 | 3.02 | 0.47 | 1.0 | 21.0 | 13.3 | 70 | 29.3 | 10.4 | <0.1 | 0.2 |
| REP AER22TS-4088 | QC | | | | | | | | | | | | | 1.0 | 21.3 | 13.3 | 70 | 28.7 | 10.5 | <0.1 | 0.2 |
| AER22TS-4091 | Till | 6.87 | 28.4 | 5.59 | 1.45 | 5.56 | 0.84 | 4.84 | 0.98 | 2.98 | 0.41 | 2.73 | 0.43 | 0.7 | 33.4 | 11.9 | 84 | 35.3 | 11.7 | <0.1 | 0.3 |
| REP AER22TS-4091 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4098 | Rock Pulp | 6.37 | 23.5 | 3.70 | 0.97 | 2.95 | 0.36 | 1.92 | 0.37 | 1.14 | 0.17 | 1.12 | 0.16 | 11.9 | 150.5 | 262.9 | 204 | 80.4 | 9.2 | 0.5 | 0.2 |
| REP AER22TS-4098 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4099 | Till | 7.74 | 31.8 | 6.19 | 1.33 | 6.05 | 0.89 | 5.64 | 1.14 | 3.38 | 0.49 | 3.35 | 0.48 | 1.4 | 25.3 | 12.9 | 68 | 27.8 | 10.5 | <0.1 | 0.3 |
| REP AER22TS-4099 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4102 | Till | 9.09 | 34.8 | 6.63 | 1.31 | 5.87 | 0.93 | 5.63 | 1.12 | 3.38 | 0.48 | 3.43 | 0.52 | 1.8 | 19.5 | 12.1 | 61 | 25.1 | 9.8 | 0.3 | 0.3 |



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| | | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 |
|------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Bi | Ag | Au | Hg | Tl | Se | SiO2 | Al2O3 | Fe2O3 | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | MnO | Cr2O3 | Ba | Ni | Sr |
| | | ppm | ppm | ppb | ppm | ppm | ppm | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm |
| | | 0.1 | 0.1 | 0.5 | 0.01 | 0.1 | 0.5 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.002 | 5 | 20 | 2 |
| AER22TS-4042 | Till | 0.1 | <0.1 | 1.2 | 0.07 | 0.2 | <0.5 | 75.63 | 8.78 | 4.73 | 0.76 | 0.76 | 0.82 | 1.71 | 0.68 | 0.15 | 0.06 | 0.008 | 512 | 27 | 103 |
| REP AER22TS-4042 | QC | | | | | | | 75.37 | 8.92 | 4.76 | 0.77 | 0.76 | 0.83 | 1.75 | 0.69 | 0.15 | 0.06 | 0.008 | 521 | 30 | 103 |
| AER22TS-4045 | Till | 0.2 | <0.1 | 1.9 | 0.07 | 0.2 | 1.1 | 69.90 | 12.31 | 4.77 | 1.21 | 0.44 | 0.54 | 2.01 | 0.71 | 0.15 | 0.02 | 0.012 | 761 | 29 | 99 |
| REP AER22TS-4045 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4048 | Till | 0.2 | 0.1 | 1.1 | 0.04 | 0.2 | 0.6 | 69.98 | 9.62 | 4.66 | 1.64 | 2.63 | 0.75 | 1.85 | 0.66 | 0.17 | 0.05 | 0.009 | 575 | 26 | 141 |
| REP AER22TS-4048 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4052 | Till | 0.2 | 0.1 | 1.3 | 0.04 | 0.2 | 1.1 | 70.72 | 11.60 | 4.67 | 1.06 | 0.86 | 0.71 | 2.04 | 0.72 | 0.17 | 0.04 | 0.011 | 631 | 30 | 124 |
| REP AER22TS-4052 | QC | 0.2 | 0.1 | 1.0 | 0.04 | 0.2 | 1.2 | | | | | | | | | | | | | | |
| AER22TS-4058 | Till | 0.2 | 0.1 | 1.4 | 0.06 | 0.3 | <0.5 | 65.77 | 12.20 | 4.86 | 1.71 | 2.41 | 0.87 | 2.00 | 0.71 | 0.19 | 0.07 | 0.013 | 638 | 38 | 161 |
| REP AER22TS-4058 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4064 | Till | 0.2 | <0.1 | 0.9 | 0.03 | 0.2 | <0.5 | 71.04 | 10.41 | 3.93 | 1.38 | 1.73 | 0.76 | 1.94 | 0.70 | 0.15 | 0.05 | 0.008 | 568 | 22 | 120 |
| REP AER22TS-4064 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4067 | Till | 0.2 | <0.1 | 2.0 | 0.07 | 0.3 | 0.6 | 70.09 | 11.73 | 4.88 | 1.07 | 0.70 | 0.67 | 1.88 | 0.71 | 0.17 | 0.03 | 0.011 | 644 | 28 | 112 |
| REP AER22TS-4067 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4074 | Till | 0.2 | <0.1 | 1.5 | 0.07 | 0.4 | <0.5 | 65.64 | 12.92 | 5.25 | 1.59 | 1.50 | 0.83 | 1.91 | 0.72 | 0.16 | 0.09 | 0.012 | 709 | 45 | 130 |
| REP AER22TS-4074 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4077 | Till | 0.2 | 0.1 | 1.0 | 0.05 | 0.4 | 1.2 | 64.65 | 11.54 | 4.28 | 1.71 | 3.75 | 0.70 | 2.04 | 0.66 | 0.17 | 0.08 | 0.010 | 605 | 43 | 147 |
| REP AER22TS-4077 | QC | | | | | | | 64.23 | 11.72 | 4.35 | 1.72 | 3.81 | 0.73 | 2.09 | 0.67 | 0.18 | 0.08 | 0.011 | 609 | 40 | 151 |
| AER22TS-4080 | Till | 0.2 | 0.1 | 1.2 | 0.05 | 0.2 | 1.4 | 66.14 | 11.76 | 5.32 | 1.59 | 1.93 | 0.65 | 2.07 | 0.68 | 0.19 | 0.05 | 0.011 | 626 | 36 | 129 |
| REP AER22TS-4080 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4088 | Till | 0.2 | 0.1 | 1.1 | 0.06 | 0.2 | <0.5 | 69.62 | 11.90 | 5.15 | 1.08 | 0.81 | 0.67 | 1.94 | 0.72 | 0.18 | 0.05 | 0.009 | 673 | 38 | 119 |
| REP AER22TS-4088 | QC | 0.2 | 0.1 | 1.3 | 0.05 | 0.2 | <0.5 | | | | | | | | | | | | | | |
| AER22TS-4091 | Till | 0.2 | <0.1 | <0.5 | 0.09 | 0.2 | 0.6 | 61.89 | 15.00 | 6.19 | 1.64 | 0.98 | 1.18 | 2.01 | 0.78 | 0.19 | 0.04 | 0.019 | 757 | 43 | 157 |
| REP AER22TS-4091 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4098 | Rock Pulp | 0.1 | 0.1 | 32.0 | 0.01 | <0.1 | <0.5 | 71.77 | 12.15 | 4.04 | 1.72 | 3.25 | 3.45 | 1.45 | 0.38 | 0.12 | 0.07 | 0.017 | 457 | 86 | 401 |
| REP AER22TS-4098 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4099 | Till | 0.2 | <0.1 | 1.4 | 0.06 | 0.3 | <0.5 | 67.14 | 12.91 | 5.11 | 1.29 | 0.84 | 0.86 | 1.89 | 0.72 | 0.16 | 0.05 | 0.014 | 677 | 29 | 154 |
| REP AER22TS-4099 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4102 | Till | 0.2 | <0.1 | 0.8 | 0.04 | 0.3 | <0.5 | 68.82 | 10.63 | 4.69 | 1.30 | 2.26 | 0.69 | 1.77 | 0.70 | 0.16 | 0.06 | 0.011 | 618 | 28 | 125 |



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| | | LF300 Zr ppm 5 | LF300 Y ppm 3 | LF300 Nb ppm 5 | LF300 Sc ppm 1 | LF300 LOI % -5.1 | LF300 Sum % 0.01 | TC000 TOT/C % 0.02 | TC005 C/ORG % 0.02 | TC005 C/GRA % 0.02 | TC006 CO2 % 0.08 | AQ251 Mo ppm 0.01 | AQ251 Cu ppm 0.01 | AQ251 Pb ppm 0.01 | AQ251 Zn ppm 0.1 | AQ251 Ag ppb 2 | AQ251 Ni ppm 0.1 | AQ251 Co ppm 0.1 | AQ251 Mn ppm 1 | AQ251 Fe % 0.01 | AQ251 As ppm 0.1 |
|------------------|-----------|-------------------------|------------------------|-------------------------|-------------------------|---------------------------|---------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------------|----------------------------|----------------------------|----------------------------|---------------------------|-------------------------|---------------------------|---------------------------|-------------------------|--------------------------|---------------------------|
| AER22TS-4042 | Till | 570 | 30 | <5 | 9 | 5.7 | 99.98 | 0.57 | 0.54 | <0.02 | 0.10 | 0.73 | 16.90 | 12.74 | 64.6 | 83 | 24.7 | 10.6 | 414 | 2.77 | 11.3 |
| REP AER22TS-4042 | QC | 595 | 30 | 8 | 9 | 5.7 | 99.97 | | | | | | | | | | | | | | |
| AER22TS-4045 | Till | 285 | 28 | 14 | 13 | 7.7 | 99.94 | 0.58 | 0.56 | <0.02 | <0.08 | 1.19 | 24.53 | 14.40 | 93.1 | 44 | 25.7 | 6.2 | 109 | 2.62 | 13.4 |
| REP AER22TS-4045 | QC | | | | | | | | | | <0.08 | | | | | | | | | | |
| AER22TS-4048 | Till | 436 | 26 | 14 | 9 | 7.8 | 99.95 | 1.24 | 0.67 | <0.02 | 1.99 | 1.28 | 16.96 | 11.51 | 62.2 | 103 | 19.5 | 8.7 | 347 | 2.51 | 10.1 |
| REP AER22TS-4048 | QC | | | | | | | | | | 2.02 | | | | | | | | | | |
| AER22TS-4052 | Till | 413 | 29 | 12 | 10 | 7.2 | 99.96 | 0.80 | 0.76 | 0.03 | <0.08 | 1.47 | 19.27 | 12.60 | 67.9 | 138 | 23.0 | 7.3 | 239 | 2.23 | 9.3 |
| REP AER22TS-4052 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4058 | Till | 352 | 30 | 11 | 12 | 9.0 | 99.92 | 1.04 | 0.60 | 0.04 | 1.43 | 2.04 | 21.37 | 11.95 | 52.9 | 102 | 28.4 | 8.1 | 387 | 2.06 | 7.9 |
| REP AER22TS-4058 | QC | | | | | | | | | 0.04 | | | | | | | | | | | |
| AER22TS-4064 | Till | 375 | 26 | 14 | 9 | 7.7 | 99.94 | 1.22 | 0.87 | 0.03 | 1.17 | 0.89 | 16.39 | 10.70 | 57.2 | 92 | 21.7 | 8.7 | 294 | 1.95 | 7.8 |
| REP AER22TS-4064 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4067 | Till | 412 | 37 | 12 | 11 | 7.8 | 99.92 | 0.71 | 0.67 | 0.02 | <0.08 | 2.43 | 21.87 | 11.61 | 59.6 | 95 | 23.6 | 5.6 | 177 | 2.18 | 10.5 |
| REP AER22TS-4067 | QC | | | | | | | | | | | 2.54 | 22.56 | 11.69 | 62.1 | 101 | 24.8 | 5.8 | 186 | 2.26 | 11.1 |
| AER22TS-4074 | Till | 300 | 28 | 12 | 12 | 9.2 | 99.93 | 0.80 | 0.58 | <0.02 | 0.72 | 1.94 | 26.86 | 14.33 | 79.8 | 96 | 38.6 | 16.3 | 588 | 2.41 | 10.9 |
| REP AER22TS-4074 | QC | | | | | | | 0.80 | | | | | | | | | | | | | |
| AER22TS-4077 | Till | 324 | 27 | 9 | 11 | 10.2 | 99.92 | 1.71 | 1.32 | 0.03 | 1.31 | 2.56 | 19.24 | 12.00 | 67.0 | 104 | 32.4 | 14.4 | 483 | 1.86 | 9.7 |
| REP AER22TS-4077 | QC | 323 | 27 | 14 | 11 | 10.2 | 99.91 | | | | | | | | | | | | | | |
| AER22TS-4080 | Till | 325 | 28 | 14 | 11 | 9.4 | 99.91 | 1.58 | 1.17 | 0.03 | 1.41 | 2.47 | 21.30 | 12.54 | 79.3 | 132 | 27.1 | 10.6 | 303 | 2.54 | 11.9 |
| REP AER22TS-4080 | QC | | | | | | | | | | 1.40 | | | | | | | | | | |
| AER22TS-4088 | Till | 395 | 33 | 7 | 11 | 7.7 | 99.93 | 0.56 | 0.51 | 0.02 | 0.08 | 1.15 | 18.68 | 12.66 | 62.7 | 113 | 26.1 | 10.5 | 306 | 2.29 | 10.2 |
| REP AER22TS-4088 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4091 | Till | 247 | 27 | <5 | 15 | 9.9 | 99.93 | 0.69 | 0.66 | 0.02 | <0.08 | 0.82 | 33.71 | 12.14 | 88.7 | 71 | 35.5 | 11.3 | 277 | 3.17 | 11.3 |
| REP AER22TS-4091 | QC | | | | | | | | | 0.02 | | | | | | | | | | | |
| AER22TS-4098 | Rock Pulp | 162 | 11 | 17 | 9 | 1.3 | 99.89 | 0.07 | 0.04 | <0.02 | 0.12 | 11.31 | 146.17 | 259.03 | 200.8 | 98 | 75.6 | 46.7 | 264 | 1.53 | 8.8 |
| REP AER22TS-4098 | QC | | | | | | | | | | | 11.23 | 146.28 | 256.04 | 200.4 | 101 | 74.1 | 46.7 | 257 | 1.50 | 8.5 |
| AER22TS-4099 | Till | 347 | 28 | 12 | 12 | 8.8 | 99.94 | 0.63 | 0.61 | <0.02 | <0.08 | 1.51 | 24.94 | 11.91 | 67.2 | 62 | 26.3 | 12.4 | 328 | 2.52 | 9.7 |
| REP AER22TS-4099 | QC | | | | | | | 0.63 | | | | | | | | | | | | | |
| AER22TS-4102 | Till | 461 | 32 | 11 | 9 | 8.7 | 99.94 | 0.87 | 0.49 | <0.02 | 1.34 | 2.03 | 19.06 | 11.59 | 58.6 | 67 | 23.9 | 10.9 | 404 | 2.27 | 9.1 |



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| | | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W |
| | | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm |
| | | 0.1 | 0.2 | 0.1 | 0.5 | 0.01 | 0.02 | 0.02 | 1 | 0.01 | 0.001 | 0.5 | 0.5 | 0.01 | 0.5 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 |
| AER22TS-4042 | Till | 0.9 | 1.1 | 6.7 | 20.2 | 0.10 | 0.30 | 0.15 | 24 | 0.36 | 0.060 | 21.2 | 14.1 | 0.25 | 108.8 | 0.007 | 7 | 0.82 | 0.006 | 0.10 | <0.1 |
| REP AER22TS-4042 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4045 | Till | 1.7 | 1.7 | 6.4 | 36.9 | 0.05 | 0.50 | 0.22 | 46 | 0.25 | 0.054 | 17.7 | 21.5 | 0.39 | 141.0 | 0.003 | 7 | 1.32 | 0.009 | 0.15 | <0.1 |
| REP AER22TS-4045 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4048 | Till | 1.5 | 1.1 | 5.8 | 56.6 | 0.17 | 0.29 | 0.16 | 25 | 1.62 | 0.068 | 16.9 | 15.2 | 0.71 | 158.3 | 0.007 | 13 | 0.81 | 0.010 | 0.15 | <0.1 |
| REP AER22TS-4048 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4052 | Till | 1.8 | 0.8 | 7.2 | 38.4 | 0.22 | 0.31 | 0.20 | 25 | 0.39 | 0.067 | 22.2 | 16.7 | 0.30 | 170.4 | 0.007 | 9 | 0.95 | 0.009 | 0.17 | <0.1 |
| REP AER22TS-4052 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4058 | Till | 1.3 | 3.2 | 5.7 | 49.9 | 0.13 | 0.53 | 0.17 | 32 | 1.13 | 0.058 | 17.7 | 26.0 | 0.54 | 144.1 | 0.007 | 9 | 0.98 | 0.010 | 0.14 | <0.1 |
| REP AER22TS-4058 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4064 | Till | 1.0 | 1.2 | 5.3 | 35.5 | 0.16 | 0.36 | 0.17 | 24 | 0.99 | 0.051 | 17.1 | 15.2 | 0.51 | 133.8 | 0.006 | 9 | 0.80 | 0.008 | 0.13 | <0.1 |
| REP AER22TS-4064 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4067 | Till | 1.3 | 1.8 | 6.9 | 29.6 | 0.09 | 0.72 | 0.21 | 33 | 0.29 | 0.055 | 23.5 | 17.0 | 0.28 | 179.7 | 0.004 | 5 | 0.94 | 0.010 | 0.12 | <0.1 |
| REP AER22TS-4067 | QC | 1.3 | 1.7 | 7.0 | 30.7 | 0.10 | 0.75 | 0.21 | 33 | 0.30 | 0.056 | 23.5 | 18.1 | 0.29 | 181.3 | 0.004 | 5 | 0.97 | 0.010 | 0.12 | <0.1 |
| AER22TS-4074 | Till | 0.8 | 2.5 | 6.1 | 35.8 | 0.28 | 0.72 | 0.21 | 30 | 0.79 | 0.056 | 19.3 | 20.3 | 0.52 | 196.5 | 0.006 | 6 | 1.03 | 0.008 | 0.14 | <0.1 |
| REP AER22TS-4074 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4077 | Till | 2.2 | 1.2 | 5.3 | 56.3 | 0.52 | 0.63 | 0.20 | 30 | 2.07 | 0.060 | 14.7 | 17.5 | 0.61 | 124.5 | 0.006 | 11 | 0.90 | 0.013 | 0.18 | <0.1 |
| REP AER22TS-4077 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4080 | Till | 1.3 | 1.4 | 6.3 | 46.9 | 0.30 | 0.56 | 0.21 | 29 | 1.11 | 0.066 | 18.7 | 17.7 | 0.57 | 178.1 | 0.004 | 11 | 0.95 | 0.008 | 0.17 | <0.1 |
| REP AER22TS-4080 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4088 | Till | 1.0 | 1.6 | 7.1 | 31.6 | 0.08 | 0.48 | 0.21 | 24 | 0.38 | 0.062 | 22.6 | 16.5 | 0.29 | 207.0 | 0.004 | 7 | 0.97 | 0.007 | 0.12 | <0.1 |
| REP AER22TS-4088 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4091 | Till | 0.8 | 3.9 | 4.7 | 33.8 | 0.04 | 0.62 | 0.17 | 42 | 0.39 | 0.069 | 16.5 | 29.5 | 0.55 | 154.9 | 0.010 | 4 | 1.59 | 0.008 | 0.12 | <0.1 |
| REP AER22TS-4091 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4098 | Rock Pulp | 0.4 | 36.2 | 2.9 | 31.1 | 0.46 | 0.20 | 0.14 | 22 | 0.54 | 0.053 | 22.9 | 29.2 | 0.44 | 55.7 | 0.064 | 2 | 0.76 | 0.085 | 0.10 | <0.1 |
| REP AER22TS-4098 | QC | 0.4 | 36.4 | 2.8 | 29.7 | 0.46 | 0.19 | 0.13 | 22 | 0.53 | 0.051 | 22.4 | 28.0 | 0.44 | 55.6 | 0.062 | 1 | 0.74 | 0.082 | 0.10 | <0.1 |
| AER22TS-4099 | Till | 1.1 | 1.9 | 6.3 | 51.1 | 0.06 | 0.49 | 0.18 | 36 | 0.35 | 0.057 | 20.1 | 22.9 | 0.40 | 176.8 | 0.011 | 4 | 1.33 | 0.011 | 0.12 | <0.1 |
| REP AER22TS-4099 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4102 | Till | 0.9 | 1.4 | 7.1 | 39.0 | 0.27 | 0.51 | 0.19 | 32 | 1.31 | 0.061 | 22.0 | 16.1 | 0.47 | 205.2 | 0.007 | 7 | 0.92 | 0.008 | 0.13 | <0.1 |



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March 07, 2023

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QUALITY CONTROL REPORT

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| | | AQ251 Sc ppm 0.1 | AQ251 Ti ppm 0.02 | AQ251 S % 0.02 | AQ251 Hg ppb 5 | AQ251 Se ppm 0.1 | AQ251 Te ppm 0.02 | AQ251 Ga ppm 0.1 | AQ251 Cs ppm 0.02 | AQ251 Ge ppm 0.1 | AQ251 Hf ppm 0.02 | AQ251 Nb ppm 0.02 | AQ251 Rb ppm 0.1 | AQ251 Sn ppm 0.1 | AQ251 Ta ppm 0.05 | AQ251 Zr ppm 0.1 | AQ251 Y ppm 0.01 | AQ251 Ce ppm 0.1 | AQ251 In ppm 0.02 | AQ251 Re ppb 1 | AQ251 Be ppm 0.1 |
|------------------|-----------|---------------------------|----------------------------|-------------------------|-------------------------|---------------------------|----------------------------|---------------------------|----------------------------|---------------------------|----------------------------|----------------------------|---------------------------|---------------------------|----------------------------|---------------------------|---------------------------|---------------------------|----------------------------|-------------------------|---------------------------|
| AER22TS-4042 | Till | 3.5 | 0.20 | <0.02 | 63 | 0.4 | 0.05 | 2.8 | 1.00 | <0.1 | 0.13 | 0.10 | 10.1 | 0.5 | <0.05 | 8.8 | 15.42 | 44.4 | 0.02 | <1 | 0.7 |
| REP AER22TS-4042 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4045 | Till | 5.4 | 0.20 | <0.02 | 74 | 1.0 | 0.07 | 4.2 | 1.62 | <0.1 | 0.14 | 0.11 | 18.2 | 0.7 | <0.05 | 9.2 | 15.84 | 38.1 | 0.04 | 1 | 0.9 |
| REP AER22TS-4045 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4048 | Till | 3.2 | 0.20 | 0.13 | 46 | 0.4 | 0.05 | 2.8 | 1.07 | <0.1 | 0.17 | 0.09 | 14.2 | 0.6 | <0.05 | 9.4 | 12.51 | 36.3 | 0.02 | 2 | 0.6 |
| REP AER22TS-4048 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4052 | Till | 3.4 | 0.19 | <0.02 | 47 | 1.1 | 0.04 | 3.1 | 1.08 | <0.1 | 0.18 | 0.13 | 17.3 | 1.0 | <0.05 | 9.9 | 14.33 | 46.2 | 0.03 | 4 | 0.8 |
| REP AER22TS-4052 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4058 | Till | 3.7 | 0.23 | 0.02 | 41 | 0.5 | 0.06 | 3.4 | 1.25 | <0.1 | 0.15 | 0.15 | 14.1 | 2.4 | <0.05 | 8.7 | 12.51 | 35.1 | 0.03 | 2 | 0.7 |
| REP AER22TS-4058 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4064 | Till | 3.1 | 0.18 | 0.05 | 40 | 0.4 | 0.04 | 2.8 | 1.24 | <0.1 | 0.11 | 0.13 | 14.4 | 0.5 | <0.05 | 7.2 | 12.10 | 37.8 | 0.02 | 1 | 0.6 |
| REP AER22TS-4064 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4067 | Till | 3.7 | 0.31 | <0.02 | 65 | 0.6 | 0.07 | 3.2 | 1.52 | <0.1 | 0.13 | 0.11 | 12.6 | 0.8 | <0.05 | 7.8 | 19.03 | 44.3 | 0.03 | 2 | 0.8 |
| REP AER22TS-4067 | QC | 3.8 | 0.31 | <0.02 | 64 | 0.6 | 0.06 | 3.3 | 1.55 | <0.1 | 0.13 | 0.11 | 12.9 | 0.8 | <0.05 | 8.4 | 19.92 | 44.7 | 0.03 | 2 | 0.8 |
| AER22TS-4074 | Till | 4.3 | 0.33 | <0.02 | 56 | 0.4 | 0.06 | 3.5 | 1.66 | <0.1 | 0.16 | 0.08 | 15.3 | 0.6 | <0.05 | 8.4 | 15.06 | 40.9 | 0.03 | <1 | 0.7 |
| REP AER22TS-4074 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4077 | Till | 3.5 | 0.35 | 1.19 | 39 | 1.1 | 0.06 | 3.1 | 1.38 | <0.1 | 0.24 | 0.12 | 15.9 | 0.7 | <0.05 | 11.6 | 12.26 | 31.6 | 0.03 | 12 | 0.6 |
| REP AER22TS-4077 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4080 | Till | 4.0 | 0.22 | 0.02 | 44 | 1.4 | 0.07 | 3.1 | 1.41 | <0.1 | 0.13 | 0.11 | 16.7 | 0.6 | <0.05 | 7.7 | 14.25 | 39.5 | 0.03 | 6 | 0.7 |
| REP AER22TS-4080 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4088 | Till | 3.8 | 0.22 | <0.02 | 54 | 0.5 | 0.06 | 3.1 | 1.58 | <0.1 | 0.12 | 0.09 | 13.2 | 0.5 | <0.05 | 7.5 | 15.84 | 45.0 | 0.03 | <1 | 0.8 |
| REP AER22TS-4088 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4091 | Till | 7.7 | 0.18 | <0.02 | 93 | 0.7 | 0.05 | 5.4 | 1.56 | <0.1 | 0.13 | 0.18 | 14.5 | 0.6 | <0.05 | 8.5 | 16.85 | 34.4 | 0.04 | <1 | 0.8 |
| REP AER22TS-4091 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4098 | Rock Pulp | 2.8 | 0.06 | 0.04 | 17 | 0.1 | <0.02 | 2.6 | 1.07 | <0.1 | 0.16 | 0.60 | 6.6 | 2.2 | <0.05 | 5.3 | 5.26 | 38.8 | 0.03 | <1 | 0.2 |
| REP AER22TS-4098 | QC | 2.7 | 0.08 | 0.04 | 15 | <0.1 | <0.02 | 2.5 | 1.05 | <0.1 | 0.15 | 0.55 | 6.4 | 2.1 | <0.05 | 5.2 | 5.17 | 38.2 | 0.03 | <1 | 0.2 |
| AER22TS-4099 | Till | 5.1 | 0.25 | <0.02 | 69 | 0.4 | 0.05 | 4.3 | 1.51 | <0.1 | 0.18 | 0.16 | 14.4 | 0.6 | <0.05 | 10.0 | 17.54 | 42.6 | 0.03 | <1 | 0.8 |
| REP AER22TS-4099 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4102 | Till | 3.4 | 0.30 | 0.02 | 36 | 0.3 | 0.05 | 3.1 | 1.24 | <0.1 | 0.17 | 0.11 | 15.1 | 0.5 | <0.05 | 10.4 | 16.47 | 44.7 | 0.02 | 1 | 0.8 |



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QUALITY CONTROL REPORT

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| | | AQ251 Li ppm 0.1 | AQ251 Pr ppm 0.02 | AQ251 Nd ppm 0.02 | AQ251 Sm ppm 0.02 | AQ251 Eu ppm 0.02 | AQ251 Gd ppm 0.02 | AQ251 Tb ppm 0.02 | AQ251 Dy ppm 0.02 | AQ251 Ho ppm 0.02 | AQ251 Er ppm 0.02 | AQ251 Tm ppm 0.02 | AQ251 Yb ppm 0.02 | AQ251 Lu ppm 0.02 | AQ251 Pd ppb 10 | AQ251 Pt ppb 2 |
|------------------|-----------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|--------------------------|-------------------------|
| AER22TS-4042 | Till | 8.5 | 5.73 | 22.20 | 4.38 | 0.83 | 3.84 | 0.50 | 2.85 | 0.52 | 1.44 | 0.19 | 1.23 | 0.19 | <10 | <2 |
| REP AER22TS-4042 | QC | | | | | | | | | | | | | | | |
| AER22TS-4045 | Till | 18.6 | 5.44 | 22.37 | 5.21 | 1.12 | 4.80 | 0.65 | 3.73 | 0.65 | 1.74 | 0.22 | 1.38 | 0.19 | <10 | <2 |
| REP AER22TS-4045 | QC | | | | | | | | | | | | | | | |
| AER22TS-4048 | Till | 11.9 | 4.45 | 17.31 | 3.46 | 0.66 | 3.11 | 0.42 | 2.40 | 0.43 | 1.15 | 0.15 | 0.91 | 0.13 | <10 | <2 |
| REP AER22TS-4048 | QC | | | | | | | | | | | | | | | |
| AER22TS-4052 | Till | 10.9 | 5.77 | 22.19 | 4.30 | 0.80 | 3.70 | 0.49 | 2.78 | 0.50 | 1.35 | 0.18 | 1.08 | 0.15 | <10 | <2 |
| REP AER22TS-4052 | QC | | | | | | | | | | | | | | | |
| AER22TS-4058 | Till | 13.9 | 4.42 | 17.53 | 3.57 | 0.70 | 3.20 | 0.44 | 2.42 | 0.44 | 1.18 | 0.15 | 0.96 | 0.13 | <10 | <2 |
| REP AER22TS-4058 | QC | | | | | | | | | | | | | | | |
| AER22TS-4064 | Till | 13.7 | 4.36 | 17.33 | 3.51 | 0.69 | 3.12 | 0.43 | 2.36 | 0.43 | 1.13 | 0.14 | 0.90 | 0.12 | <10 | <2 |
| REP AER22TS-4064 | QC | | | | | | | | | | | | | | | |
| AER22TS-4067 | Till | 9.4 | 6.34 | 24.04 | 4.98 | 1.00 | 4.61 | 0.64 | 3.56 | 0.66 | 1.81 | 0.24 | 1.50 | 0.21 | <10 | <2 |
| REP AER22TS-4067 | QC | 9.8 | 6.25 | 23.89 | 4.97 | 1.00 | 4.65 | 0.64 | 3.64 | 0.67 | 1.83 | 0.24 | 1.47 | 0.22 | <10 | <2 |
| AER22TS-4074 | Till | 10.5 | 4.95 | 19.34 | 4.06 | 0.87 | 3.66 | 0.51 | 2.91 | 0.52 | 1.43 | 0.19 | 1.16 | 0.16 | <10 | <2 |
| REP AER22TS-4074 | QC | | | | | | | | | | | | | | | |
| AER22TS-4077 | Till | 15.1 | 3.77 | 15.31 | 3.28 | 0.68 | 3.04 | 0.43 | 2.45 | 0.44 | 1.19 | 0.16 | 0.96 | 0.14 | <10 | <2 |
| REP AER22TS-4077 | QC | | | | | | | | | | | | | | | |
| AER22TS-4080 | Till | 12.1 | 4.93 | 19.01 | 3.95 | 0.80 | 3.56 | 0.50 | 2.80 | 0.50 | 1.35 | 0.17 | 1.09 | 0.15 | <10 | <2 |
| REP AER22TS-4080 | QC | | | | | | | | | | | | | | | |
| AER22TS-4088 | Till | 10.6 | 5.77 | 22.26 | 4.46 | 0.87 | 3.92 | 0.54 | 3.01 | 0.55 | 1.48 | 0.19 | 1.20 | 0.17 | <10 | <2 |
| REP AER22TS-4088 | QC | | | | | | | | | | | | | | | |
| AER22TS-4091 | Till | 16.9 | 4.85 | 20.13 | 4.62 | 1.10 | 4.20 | 0.58 | 3.32 | 0.61 | 1.65 | 0.22 | 1.37 | 0.19 | <10 | <2 |
| REP AER22TS-4091 | QC | | | | | | | | | | | | | | | |
| AER22TS-4098 | Rock Pulp | 8.5 | 4.75 | 16.16 | 2.35 | 0.50 | 1.56 | 0.18 | 1.03 | 0.18 | 0.49 | 0.06 | 0.41 | 0.06 | 43 | 24 |
| REP AER22TS-4098 | QC | 8.4 | 4.64 | 15.66 | 2.31 | 0.50 | 1.52 | 0.18 | 0.99 | 0.18 | 0.48 | 0.06 | 0.39 | 0.05 | 41 | 24 |
| AER22TS-4099 | Till | 12.1 | 5.57 | 21.48 | 4.54 | 0.96 | 4.22 | 0.57 | 3.28 | 0.61 | 1.69 | 0.22 | 1.45 | 0.21 | <10 | <2 |
| REP AER22TS-4099 | QC | | | | | | | | | | | | | | | |
| AER22TS-4102 | Till | 9.8 | 5.87 | 22.14 | 4.43 | 0.83 | 3.93 | 0.53 | 2.99 | 0.54 | 1.49 | 0.19 | 1.20 | 0.17 | <10 | <2 |



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QUALITY CONTROL REPORT

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| | | WGHT | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 |
|---------------------|----------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Wgt | Ba | Be | Co | Cs | Ga | Hf | Nb | Rb | Sn | Sr | Ta | Th | U | V | W | Zr | Y | La | Ce |
| | | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | | 0.01 | 1 | 1 | 0.2 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 1 | 0.5 | 0.1 | 0.2 | 0.1 | 8 | 0.5 | 0.1 | 0.1 | 0.1 | 0.1 |
| REP AER22TS-4102 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4103 | Till | 2.45 | 637 | 2 | 12.6 | 3.7 | 11.4 | 11.7 | 12.5 | 64.0 | 2 | 126.3 | 0.9 | 11.6 | 3.2 | 102 | 1.6 | 452.5 | 33.6 | 40.6 | 78.1 |
| REP AER22TS-4103 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4107 | Till | 1.62 | 429 | 3 | 11.4 | 4.7 | 12.6 | 10.5 | 14.2 | 71.6 | 2 | 108.2 | 1.2 | 12.6 | 4.6 | 92 | 1.4 | 413.1 | 32.7 | 39.6 | 85.1 |
| REP AER22TS-4107 | QC | | | | | | | | | | | | | | | | | | | | |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD BVGEO01 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD BVGEO01 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD BVGEO01 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD BVGEO01 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD DS11 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD DS11 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD DS11 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD DS11 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |



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QUALITY CONTROL REPORT

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| | | LF100 Pr ppm 0.02 | LF100 Nd ppm 0.3 | LF100 Sm ppm 0.05 | LF100 Eu ppm 0.02 | LF100 Gd ppm 0.05 | LF100 Tb ppm 0.01 | LF100 Dy ppm 0.05 | LF100 Ho ppm 0.02 | LF100 Er ppm 0.03 | LF100 Tm ppm 0.01 | LF100 Yb ppm 0.05 | LF100 Lu ppm 0.01 | AQ200 Mo ppm 0.1 | AQ200 Cu ppm 0.1 | AQ200 Pb ppm 0.1 | AQ200 Zn ppm 1 | AQ200 Ni ppm 0.1 | AQ200 As ppm 0.5 | AQ200 Cd ppm 0.1 | AQ200 Sb ppm 0.1 |
|---------------------|----------|----------------------------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|---------------------------|---------------------------|---------------------------|-------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| REP AER22TS-4102 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4103 | Till | 9.20 | 36.2 | 6.75 | 1.35 | 6.20 | 0.95 | 5.83 | 1.20 | 3.77 | 0.55 | 3.51 | 0.56 | 1.8 | 19.4 | 12.1 | 59 | 26.9 | 9.8 | 0.3 | 0.3 |
| REP AER22TS-4103 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4107 | Till | 10.13 | 40.5 | 7.79 | 1.56 | 6.51 | 0.99 | 5.99 | 1.26 | 3.62 | 0.55 | 3.59 | 0.54 | 1.2 | 18.2 | 15.3 | 83 | 19.6 | 10.1 | <0.1 | 0.1 |
| REP AER22TS-4107 | QC | | | | | | | | | | | | | 1.1 | 17.4 | 14.7 | 80 | 18.4 | 9.8 | <0.1 | 0.2 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD BVGEO01 | Standard | | | | | | | | | | | | | 9.7 | 4330.8 | 171.8 | 1706 | 160.4 | 119.0 | 6.0 | 2.2 |
| STD BVGEO01 | Standard | | | | | | | | | | | | | 9.9 | 4564.7 | 183.8 | 1905 | 164.2 | 130.7 | 6.3 | 2.1 |
| STD BVGEO01 | Standard | | | | | | | | | | | | | 9.3 | 4261.8 | 171.4 | 1684 | 154.8 | 121.4 | 5.8 | 2.0 |
| STD BVGEO01 | Standard | | | | | | | | | | | | | 10.2 | 4585.5 | 180.9 | 1866 | 165.1 | 125.1 | 6.2 | 2.7 |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD DS11 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD DS11 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD DS11 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD DS11 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD DS11 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |



**BUREAU
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MINERAL LABORATORIES
Canada

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Client:

Palmer

470 Granville St. - Suite 630
Vancouver British Columbia V6C 1V5 Canada

Project:

AER

Report Date:

March 07, 2023

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

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QUALITY CONTROL REPORT

VAN22003159.1

| | | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 |
|---------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Bi | Ag | Au | Hg | Tl | Se | SiO2 | Al2O3 | Fe2O3 | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | MnO | Cr2O3 | Ba | Ni | Sr |
| | | ppm | ppm | ppb | ppm | ppm | ppm | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm |
| | | 0.1 | 0.1 | 0.5 | 0.01 | 0.1 | 0.5 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.002 | 5 | 20 | 2 |
| REP AER22TS-4102 | QC | | | | | | | 68.59 | 10.72 | 4.73 | 1.32 | 2.28 | 0.71 | 1.78 | 0.71 | 0.17 | 0.06 | 0.010 | 631 | 34 | 126 |
| AER22TS-4103 | Till | 0.2 | <0.1 | 0.8 | 0.04 | 0.3 | <0.5 | 69.52 | 10.26 | 4.50 | 1.23 | 2.43 | 0.68 | 1.66 | 0.67 | 0.16 | 0.07 | 0.010 | 626 | 31 | 123 |
| REP AER22TS-4103 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4107 | Till | 0.2 | <0.1 | <0.5 | 0.02 | 0.1 | 0.8 | 70.34 | 11.68 | 4.92 | 0.99 | 0.50 | 0.60 | 1.83 | 0.75 | 0.18 | 0.03 | 0.009 | 439 | 26 | 109 |
| REP AER22TS-4107 | QC | 0.2 | <0.1 | <0.5 | 0.03 | 0.1 | 0.8 | | | | | | | | | | | | | | |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD BVGEO01 | Standard | 23.3 | 2.3 | 190.2 | 0.09 | 0.6 | 4.8 | | | | | | | | | | | | | | |
| STD BVGEO01 | Standard | 24.8 | 2.5 | 211.3 | 0.09 | 0.6 | 5.2 | | | | | | | | | | | | | | |
| STD BVGEO01 | Standard | 22.3 | 2.4 | 190.4 | 0.08 | 0.6 | 5.0 | | | | | | | | | | | | | | |
| STD BVGEO01 | Standard | 24.0 | 2.5 | 212.7 | 0.10 | 0.6 | 5.2 | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD DS11 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD DS11 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD DS11 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD DS11 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD DS11 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |



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Project:

AER

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March 07, 2023

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Part:

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QUALITY CONTROL REPORT

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| | | LF300 Zr ppm 5 | LF300 Y ppm 3 | LF300 Nb ppm 5 | LF300 Sc ppm 1 | LF300 LOI % -5.1 | LF300 Sum % 0.01 | TC000 TOT/C % 0.02 | TC005 C/ORG % 0.02 | TC005 C/GRA % 0.02 | TC006 CO2 % 0.08 | AQ251 Mo ppm 0.01 | AQ251 Cu ppm 0.01 | AQ251 Pb ppm 0.01 | AQ251 Zn ppm 0.1 | AQ251 Ag ppb 2 | AQ251 Ni ppm 0.1 | AQ251 Co ppm 0.1 | AQ251 Mn ppm 1 | AQ251 Fe % 0.01 | AQ251 As ppm 0.1 |
|---------------------|----------|-------------------------|------------------------|-------------------------|-------------------------|---------------------------|---------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------------|----------------------------|----------------------------|----------------------------|---------------------------|-------------------------|---------------------------|---------------------------|-------------------------|--------------------------|---------------------------|
| REP AER22TS-4102 | QC | 460 | 33 | 12 | 10 | 8.7 | 99.94 | | | | | | | | | | | | | | |
| AER22TS-4103 | Till | 446 | 31 | 11 | 9 | 8.6 | 99.94 | 0.92 | 0.53 | <0.02 | 1.40 | 1.93 | 19.00 | 11.88 | 57.8 | 76 | 25.8 | 11.0 | 440 | 2.24 | 9.5 |
| REP AER22TS-4103 | QC | | | | | | | | | | 1.43 | | | | | | | | | | |
| AER22TS-4107 | Till | 449 | 32 | 18 | 11 | 8.0 | 99.96 | 0.60 | 0.57 | 0.03 | <0.08 | 1.16 | 17.63 | 13.98 | 81.3 | 53 | 17.8 | 10.4 | 204 | 2.39 | 9.6 |
| REP AER22TS-4107 | QC | | | | | | | | | | | | | | | | | | | | |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD BVGEO01 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD BVGEO01 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD BVGEO01 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD BVGEO01 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | 3.47 | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | 3.39 | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | 3.58 | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | 3.48 | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | 3.39 | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | 3.63 | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | 3.42 | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | 3.65 | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | 3.67 | | | | | | | | | | |
| STD DS11 | Standard | | | | | | | | | | | 13.81 | 137.43 | 123.80 | 323.0 | 1581 | 74.0 | 13.2 | 985 | 2.90 | 41.2 |
| STD DS11 | Standard | | | | | | | | | | | 14.32 | 140.88 | 132.18 | 334.0 | 1711 | 78.2 | 13.2 | 962 | 3.01 | 42.6 |
| STD DS11 | Standard | | | | | | | | | | | 13.59 | 138.84 | 125.25 | 325.7 | 1590 | 75.8 | 12.9 | 977 | 3.03 | 40.6 |
| STD DS11 | Standard | | | | | | | | | | | 13.92 | 139.15 | 129.92 | 329.1 | 1633 | 74.3 | 13.0 | 989 | 3.02 | 40.8 |
| STD DS11 | Standard | | | | | | | | | | | 14.33 | 139.16 | 140.11 | 341.8 | 1730 | 74.3 | 13.7 | 1014 | 3.05 | 44.4 |
| STD GGC-09 | Standard | | | | | | | | | 2.46 | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | 2.31 | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | 2.48 | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | 2.41 | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | 2.43 | | | | | | | | | | | |



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Project: AER
Report Date: March 07, 2023

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QUALITY CONTROL REPORT

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| | | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|---------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W |
| | | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm |
| | | 0.1 | 0.2 | 0.1 | 0.5 | 0.01 | 0.02 | 0.02 | 1 | 0.01 | 0.001 | 0.5 | 0.5 | 0.01 | 0.5 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 |
| REP AER22TS-4102 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4103 | Till | 0.9 | 1.4 | 6.8 | 40.0 | 0.32 | 0.51 | 0.20 | 30 | 1.44 | 0.061 | 22.0 | 16.4 | 0.44 | 227.5 | 0.007 | 7 | 0.90 | 0.008 | 0.13 | <0.1 |
| REP AER22TS-4103 | QC | | | | | | | | | | | | | | | | | | | | |
| AER22TS-4107 | Till | 2.2 | 0.9 | 7.9 | 34.7 | 0.03 | 0.28 | 0.22 | 20 | 0.24 | 0.067 | 19.0 | 15.0 | 0.25 | 65.2 | 0.004 | 8 | 0.94 | 0.010 | 0.12 | <0.1 |
| REP AER22TS-4107 | QC | | | | | | | | | | | | | | | | | | | | |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD BVGEO01 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD BVGEO01 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD BVGEO01 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD BVGEO01 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD DS11 | Standard | 2.2 | 66.8 | 6.7 | 61.9 | 2.11 | 8.45 | 10.37 | 46 | 1.01 | 0.069 | 16.5 | 56.4 | 0.81 | 330.7 | 0.087 | 6 | 1.12 | 0.071 | 0.37 | 2.7 |
| STD DS11 | Standard | 2.4 | 83.2 | 7.4 | 63.6 | 2.22 | 8.72 | 11.51 | 45 | 1.03 | 0.067 | 17.9 | 55.8 | 0.80 | 351.1 | 0.090 | 7 | 1.11 | 0.076 | 0.39 | 2.8 |
| STD DS11 | Standard | 2.3 | 68.5 | 7.3 | 64.3 | 2.09 | 7.69 | 10.43 | 47 | 1.04 | 0.068 | 17.1 | 55.6 | 0.81 | 347.6 | 0.090 | 7 | 1.13 | 0.073 | 0.38 | 2.7 |
| STD DS11 | Standard | 2.4 | 69.2 | 7.4 | 66.4 | 2.11 | 7.43 | 10.94 | 48 | 1.06 | 0.069 | 18.3 | 56.3 | 0.82 | 365.1 | 0.093 | 7 | 1.16 | 0.076 | 0.39 | 2.7 |
| STD DS11 | Standard | 2.7 | 69.0 | 8.6 | 67.9 | 2.52 | 9.34 | 12.28 | 43 | 1.03 | 0.071 | 18.2 | 59.0 | 0.84 | 364.0 | 0.092 | 9 | 1.13 | 0.078 | 0.39 | 2.8 |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |



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QUALITY CONTROL REPORT

VAN22003159.1

| | | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|---------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Sc | Ti | S | Hg | Se | Te | Ga | Cs | Ge | Hf | Nb | Rb | Sn | Ta | Zr | Y | Ce | In | Re |
| | | ppm | ppm | % | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppb |
| | | 0.1 | 0.02 | 0.02 | 5 | 0.1 | 0.02 | 0.1 | 0.02 | 0.1 | 0.02 | 0.02 | 0.1 | 0.1 | 0.05 | 0.1 | 0.01 | 0.1 | 0.02 | 1 |
| REP AER22TS-4102 | QC | | | | | | | | | | | | | | | | | | | |
| AER22TS-4103 | Till | 3.4 | 0.30 | 0.03 | 37 | 0.4 | 0.06 | 3.1 | 1.27 | <0.1 | 0.18 | 0.12 | 15.0 | 0.5 | <0.05 | 10.1 | 16.61 | 43.4 | 0.02 | <1 |
| REP AER22TS-4103 | QC | | | | | | | | | | | | | | | | | | | |
| AER22TS-4107 | Till | 3.8 | 0.14 | 0.02 | 27 | 1.0 | 0.05 | 3.1 | 1.47 | <0.1 | 0.16 | 0.12 | 14.8 | 0.7 | <0.05 | 9.8 | 15.86 | 45.9 | 0.03 | <1 |
| REP AER22TS-4107 | QC | | | | | | | | | | | | | | | | | | | |
| Reference Materials | | | | | | | | | | | | | | | | | | | | |
| STD BVGEO01 | Standard | | | | | | | | | | | | | | | | | | | |
| STD BVGEO01 | Standard | | | | | | | | | | | | | | | | | | | |
| STD BVGEO01 | Standard | | | | | | | | | | | | | | | | | | | |
| STD BVGEO01 | Standard | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | | | | | |
| STD DS11 | Standard | 3.0 | 4.41 | 0.26 | 237 | 2.2 | 4.45 | 4.5 | 2.64 | <0.1 | 0.05 | 1.50 | 31.3 | 1.6 | <0.05 | 2.8 | 7.73 | 33.8 | 0.22 | 42 |
| STD DS11 | Standard | 3.1 | 4.70 | 0.25 | 266 | 2.3 | 4.63 | 4.7 | 2.82 | <0.1 | 0.06 | 1.42 | 32.2 | 1.7 | <0.05 | 2.8 | 8.03 | 35.8 | 0.23 | 45 |
| STD DS11 | Standard | 3.1 | 4.50 | 0.26 | 253 | 2.3 | 4.70 | 4.8 | 2.61 | <0.1 | 0.08 | 1.62 | 31.7 | 1.6 | <0.05 | 3.2 | 8.16 | 35.0 | 0.22 | 40 |
| STD DS11 | Standard | 3.1 | 4.67 | 0.27 | 270 | 2.3 | 4.73 | 4.9 | 2.73 | <0.1 | 0.07 | 1.55 | 32.9 | 1.7 | <0.05 | 3.2 | 8.19 | 37.4 | 0.22 | 45 |
| STD DS11 | Standard | 3.4 | 4.68 | 0.28 | 279 | 2.3 | 4.41 | 4.8 | 2.78 | <0.1 | 0.06 | 1.50 | 32.7 | 1.9 | <0.05 | 2.7 | 7.84 | 36.4 | 0.21 | 46 |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | |



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QUALITY CONTROL REPORT

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| | | AQ251 Li ppm 0.1 | AQ251 Pr ppm 0.02 | AQ251 Nd ppm 0.02 | AQ251 Sm ppm 0.02 | AQ251 Eu ppm 0.02 | AQ251 Gd ppm 0.02 | AQ251 Tb ppm 0.02 | AQ251 Dy ppm 0.02 | AQ251 Ho ppm 0.02 | AQ251 Er ppm 0.02 | AQ251 Tm ppm 0.02 | AQ251 Yb ppm 0.02 | AQ251 Lu ppm 0.02 | AQ251 Pd ppb 10 | AQ251 Pt ppb 2 |
|---------------------|----------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|--------------------------|-------------------------|
| REP AER22TS-4102 | QC | | | | | | | | | | | | | | | |
| AER22TS-4103 | Till | 9.8 | 5.82 | 21.97 | 4.40 | 0.83 | 3.95 | 0.54 | 3.04 | 0.55 | 1.50 | 0.20 | 1.21 | 0.17 | <10 | <2 |
| REP AER22TS-4103 | QC | | | | | | | | | | | | | | | |
| AER22TS-4107 | Till | 10.6 | 6.36 | 24.71 | 5.24 | 1.04 | 4.51 | 0.61 | 3.36 | 0.60 | 1.60 | 0.21 | 1.33 | 0.19 | <10 | <2 |
| REP AER22TS-4107 | QC | | | | | | | | | | | | | | | |
| Reference Materials | | | | | | | | | | | | | | | | |
| STD BVGEO01 | Standard | | | | | | | | | | | | | | | |
| STD BVGEO01 | Standard | | | | | | | | | | | | | | | |
| STD BVGEO01 | Standard | | | | | | | | | | | | | | | |
| STD BVGEO01 | Standard | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | |
| STD COO2 | Standard | | | | | | | | | | | | | | | |
| STD DS11 | Standard | 21.7 | 3.54 | 13.55 | 2.41 | 0.45 | 1.98 | 0.26 | 1.48 | 0.27 | 0.74 | 0.10 | 0.69 | 0.10 | 91 | 158 |
| STD DS11 | Standard | 20.9 | 3.76 | 14.18 | 2.54 | 0.48 | 2.08 | 0.28 | 1.55 | 0.28 | 0.79 | 0.11 | 0.72 | 0.10 | 91 | 168 |
| STD DS11 | Standard | 22.6 | 3.81 | 13.96 | 2.46 | 0.45 | 1.99 | 0.26 | 1.47 | 0.27 | 0.77 | 0.11 | 0.69 | 0.10 | 95 | 158 |
| STD DS11 | Standard | 22.7 | 4.06 | 14.74 | 2.60 | 0.48 | 2.13 | 0.27 | 1.55 | 0.29 | 0.81 | 0.11 | 0.73 | 0.11 | 98 | 164 |
| STD DS11 | Standard | 23.8 | 4.01 | 14.59 | 2.66 | 0.53 | 2.12 | 0.31 | 1.64 | 0.29 | 0.77 | 0.12 | 0.81 | 0.09 | 78 | 171 |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | |



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Project: AER
Report Date: March 07, 2023

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QUALITY CONTROL REPORT

VAN22003159.1

| | | WGHT | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 |
|--------------|----------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Wgt | Ba | Be | Co | Cs | Ga | Hf | Nb | Rb | Sn | Sr | Ta | Th | U | V | W | Zr | Y | La | Ce |
| | | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | | 0.01 | 1 | 1 | 0.2 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 1 | 0.5 | 0.1 | 0.2 | 0.1 | 8 | 0.5 | 0.1 | 0.1 | 0.1 | 0.1 |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GS311-1 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GS311-1 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GS311-1 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GS910-4 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GS910-4 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GS910-4 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS279 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS279 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS279 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | 432 | 17 | 22.2 | 4.1 | 15.2 | 2.8 | 62.7 | 18.0 | 17 | 294.1 | 4.3 | 12.5 | 18.1 | 158 | 7.9 | 102.7 | 34.8 | 69.3 | 152.9 |
| STD SO-19 | Standard | | 420 | 11 | 20.5 | 4.2 | 15.0 | 2.9 | 64.7 | 17.6 | 17 | 287.6 | 4.1 | 12.6 | 18.9 | 162 | 9.8 | 99.7 | 34.0 | 67.6 | 147.5 |
| STD SO-19 | Standard | | 471 | 20 | 24.2 | 4.8 | 16.6 | 3.2 | 65.1 | 19.3 | 19 | 321.3 | 4.2 | 13.9 | 21.0 | 162 | 10.1 | 112.4 | 34.7 | 71.5 | 162.2 |



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QUALITY CONTROL REPORT

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| | | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |
|--------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu | Mo | Cu | Pb | Zn | Ni | As | Cd | Sb |
| | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | | 0.02 | 0.3 | 0.05 | 0.02 | 0.05 | 0.01 | 0.05 | 0.02 | 0.03 | 0.01 | 0.05 | 0.01 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.5 | 0.1 | 0.1 |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GS311-1 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GS311-1 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GS311-1 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GS910-4 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GS910-4 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GS910-4 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | 0.6 | 106.1 | 50.4 | 144 | 61.6 | 33.6 | 0.6 | 2.8 |
| STD OREAS279 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS279 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | 0.6 | 105.7 | 50.4 | 144 | 59.5 | 33.8 | 0.6 | 3.0 |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | 0.6 | 116.0 | 56.2 | 163 | 66.6 | 37.0 | 0.7 | 2.4 |
| STD OREAS262 | Standard | | | | | | | | | | | | | 0.6 | 116.3 | 55.3 | 160 | 66.2 | 36.1 | 0.7 | 1.7 |
| STD OREAS262 | Standard | | | | | | | | | | | | | 0.7 | 116.2 | 56.8 | 162 | 67.1 | 37.5 | 0.6 | 3.5 |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS279 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | 18.01 | 70.6 | 12.32 | 3.41 | 9.72 | 1.27 | 7.25 | 1.23 | 3.54 | 0.49 | 2.98 | 0.46 | | | | | | | | |
| STD SO-19 | Standard | 17.58 | 71.0 | 12.36 | 3.46 | 9.61 | 1.33 | 6.93 | 1.25 | 3.68 | 0.48 | 3.13 | 0.46 | | | | | | | | |
| STD SO-19 | Standard | 19.10 | 73.6 | 12.94 | 3.69 | 10.43 | 1.42 | 7.65 | 1.41 | 3.70 | 0.56 | 3.48 | 0.52 | | | | | | | | |



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| | | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 |
|--------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Bi | Ag | Au | Hg | Tl | Se | SiO2 | Al2O3 | Fe2O3 | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | MnO | Cr2O3 | Ba | Ni | Sr |
| | | ppm | ppm | ppb | ppm | ppm | ppm | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm |
| | | 0.1 | 0.1 | 0.5 | 0.01 | 0.1 | 0.5 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.002 | 5 | 20 | 2 |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GS311-1 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GS311-1 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GS311-1 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GS910-4 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GS910-4 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GS910-4 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | 0.8 | 0.4 | 59.9 | 0.15 | 0.4 | <0.5 | | | | | | | | | | | | | | |
| STD OREAS279 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS279 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | 0.9 | 0.4 | 60.5 | 0.15 | 0.4 | 0.6 | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | 0.9 | 0.5 | 56.4 | 0.18 | 0.5 | 0.6 | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | 0.9 | 0.4 | 48.7 | 0.18 | 0.4 | 0.6 | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | 1.0 | 0.5 | 63.2 | 0.16 | 0.5 | 0.7 | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS279 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | 60.22 | 14.11 | 7.46 | 2.91 | 5.99 | 4.10 | 1.31 | 0.70 | 0.33 | 0.13 | 0.492 | 468 | 474 | 323 |
| STD SO-19 | Standard | | | | | | | 60.41 | 14.11 | 7.36 | 2.89 | 5.96 | 4.07 | 1.32 | 0.70 | 0.31 | 0.13 | 0.494 | 461 | 468 | 322 |
| STD SO-19 | Standard | | | | | | | 60.52 | 14.05 | 7.46 | 2.91 | 5.90 | 3.96 | 1.30 | 0.70 | 0.33 | 0.13 | 0.500 | 465 | 474 | 318 |
| STD SO-19 | Standard | | | | | | | 60.63 | 14.01 | 7.35 | 2.88 | 5.96 | 4.02 | 1.27 | 0.70 | 0.32 | 0.13 | 0.501 | 461 | 466 | 318 |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |



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QUALITY CONTROL REPORT

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| | | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | TC000 | TC005 | TC005 | TC006 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | |
|--------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|------|
| | | Zr | Y | Nb | Sc | LOI | Sum | TOT/C | C/ORG | C/GRA | CO2 | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | |
| | | ppm | ppm | ppm | ppm | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppb | ppm | ppm | ppm | % | ppm | |
| | | 5 | 3 | 5 | 1 | -5.1 | 0.01 | 0.02 | 0.02 | 0.02 | 0.08 | 0.01 | 0.01 | 0.01 | 0.1 | 2 | 0.1 | 0.1 | 1 | 0.01 | 0.1 | |
| STD GGC-09 | Standard | 2.27 | | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | 2.47 | | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | 2.41 | | | | | | | | | | | | | | | | | | | | |
| STD GS311-1 | Standard | 1.01 | | | | | | | | | | | | | | | | | | | | |
| STD GS311-1 | Standard | 0.97 | | | | | | | | | | | | | | | | | | | | |
| STD GS311-1 | Standard | 1.07 | | | | | | | | | | | | | | | | | | | | |
| STD GS910-4 | Standard | 2.69 | | | | | | | | | | | | | | | | | | | | |
| STD GS910-4 | Standard | 2.43 | | | | | | | | | | | | | | | | | | | | |
| STD GS910-4 | Standard | 2.47 | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | | |
| STD OREAS279 | Standard | 1.16 | | | | | | | | | | | | | | | | | | | | |
| STD OREAS279 | Standard | 1.13 | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | 0.65 | 109.42 | 51.37 | 147.7 | 434 | 61.3 | 26.0 | 524 | 3.05 | 34.7 |
| STD OREAS262 | Standard | | | | | | | | | | | | 0.68 | 111.03 | 55.60 | 155.6 | 474 | 62.5 | 27.2 | 508 | 3.19 | 36.9 |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | 0.60 | 109.93 | 52.69 | 147.8 | 424 | 61.0 | 26.0 | 510 | 3.16 | 33.6 |
| STD OREAS262 | Standard | | | | | | | | | | | | 0.61 | 110.17 | 54.26 | 149.9 | 447 | 60.5 | 26.0 | 516 | 3.18 | 34.3 |
| STD OREAS279 | Standard | 3.16 | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | 0.65 | 112.51 | 58.14 | 146.6 | 471 | 61.3 | 28.1 | 535 | 3.24 | 38.9 |
| STD SO-19 | Standard | 114 | 35 | 78 | 26 | 1.9 | 99.88 | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | 113 | 33 | 71 | 27 | 1.9 | 99.88 | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | 110 | 34 | 77 | 27 | 1.9 | 99.87 | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | 111 | 34 | 76 | 26 | 1.9 | 99.88 | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | | |



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QUALITY CONTROL REPORT

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| | | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | |
|--------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| | | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W |
| | | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm |
| | | 0.1 | 0.2 | 0.1 | 0.5 | 0.01 | 0.02 | 0.02 | 1 | 0.01 | 0.001 | 0.5 | 0.5 | 0.01 | 0.5 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GS311-1 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GS311-1 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GS311-1 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GS910-4 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GS910-4 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GS910-4 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS279 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS279 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | 1.0 | 64.3 | 8.1 | 32.8 | 0.60 | 5.90 | 0.88 | 20 | 2.87 | 0.038 | 14.5 | 40.2 | 1.12 | 222.9 | 0.002 | 3 | 1.22 | 0.064 | 0.28 | 0.2 |
| STD OREAS262 | Standard | 1.1 | 70.3 | 8.9 | 34.6 | 0.64 | 6.32 | 0.98 | 20 | 2.83 | 0.039 | 15.8 | 42.4 | 1.17 | 248.8 | 0.002 | 3 | 1.30 | 0.068 | 0.30 | 0.2 |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | 1.1 | 54.4 | 8.6 | 33.0 | 0.58 | 4.74 | 0.89 | 20 | 2.90 | 0.040 | 17.1 | 40.4 | 1.14 | 226.3 | 0.003 | 4 | 1.30 | 0.066 | 0.31 | 0.2 |
| STD OREAS262 | Standard | 1.1 | 57.1 | 8.8 | 34.0 | 0.60 | 4.34 | 0.92 | 21 | 2.99 | 0.039 | 17.5 | 41.2 | 1.16 | 236.6 | 0.003 | 4 | 1.34 | 0.067 | 0.30 | 0.2 |
| STD OREAS279 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | 1.2 | 60.5 | 10.0 | 36.1 | 0.71 | 5.55 | 1.08 | 20 | 2.88 | 0.041 | 16.7 | 43.8 | 1.20 | 256.3 | 0.003 | 6 | 1.28 | 0.068 | 0.30 | 0.2 |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |



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| | | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|--------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Sc | Tl | S | Hg | Se | Te | Ga | Cs | Ge | Hf | Nb | Rb | Sn | Ta | Zr | Y | Ce | In | Re | Be |
| | | ppm | ppm | % | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppb | ppm |
| | | 0.1 | 0.02 | 0.02 | 5 | 0.1 | 0.02 | 0.1 | 0.02 | 0.1 | 0.02 | 0.02 | 0.1 | 0.1 | 0.05 | 0.1 | 0.01 | 0.1 | 0.02 | 1 | 0.1 |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GS311-1 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GS311-1 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GS311-1 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GS910-4 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GS910-4 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GS910-4 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS279 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS279 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | 3.0 | 0.42 | 0.25 | 144 | 0.6 | 0.25 | 3.5 | 2.61 | <0.1 | 0.27 | <0.02 | 17.5 | 0.5 | <0.05 | 12.8 | 10.67 | 28.8 | 0.03 | <1 | 1.1 |
| STD OREAS262 | Standard | 3.1 | 0.47 | 0.24 | 173 | 0.7 | 0.26 | 3.8 | 3.00 | <0.1 | 0.30 | <0.02 | 19.3 | 0.5 | <0.05 | 13.6 | 11.12 | 31.2 | 0.03 | <1 | 1.1 |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | 3.0 | 0.44 | 0.25 | 163 | 0.5 | 0.23 | 3.8 | 2.51 | <0.1 | 0.30 | <0.02 | 19.1 | 0.5 | <0.05 | 13.6 | 10.92 | 34.4 | 0.03 | <1 | 1.2 |
| STD OREAS262 | Standard | 3.1 | 0.46 | 0.25 | 163 | 0.6 | 0.24 | 4.0 | 2.65 | <0.1 | 0.27 | <0.02 | 19.4 | 0.5 | <0.05 | 12.2 | 10.87 | 34.8 | 0.03 | <1 | 1.1 |
| STD OREAS279 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | 3.4 | 0.45 | 0.27 | 181 | 0.4 | 0.24 | 3.8 | 2.58 | <0.1 | 0.23 | <0.02 | 17.9 | 0.5 | <0.05 | 10.2 | 10.73 | 32.3 | <0.02 | 2 | 1.0 |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |



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QUALITY CONTROL REPORT

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| | | AQ251 Li ppm 0.1 | AQ251 Pr ppm 0.02 | AQ251 Nd ppm 0.02 | AQ251 Sm ppm 0.02 | AQ251 Eu ppm 0.02 | AQ251 Gd ppm 0.02 | AQ251 Tb ppm 0.02 | AQ251 Dy ppm 0.02 | AQ251 Ho ppm 0.02 | AQ251 Er ppm 0.02 | AQ251 Tm ppm 0.02 | AQ251 Yb ppm 0.02 | AQ251 Lu ppm 0.02 | AQ251 Pd ppb 10 | AQ251 Pt ppb 2 |
|--------------|----------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|--------------------------|-------------------------|
| STD GGC-09 | Standard | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | |
| STD GGC-09 | Standard | | | | | | | | | | | | | | | |
| STD GS311-1 | Standard | | | | | | | | | | | | | | | |
| STD GS311-1 | Standard | | | | | | | | | | | | | | | |
| STD GS311-1 | Standard | | | | | | | | | | | | | | | |
| STD GS910-4 | Standard | | | | | | | | | | | | | | | |
| STD GS910-4 | Standard | | | | | | | | | | | | | | | |
| STD GS910-4 | Standard | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | |
| STD OREAS279 | Standard | | | | | | | | | | | | | | | |
| STD OREAS279 | Standard | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | 16.6 | 3.38 | 13.54 | 2.99 | 0.56 | 2.67 | 0.36 | 1.99 | 0.36 | 0.96 | 0.13 | 0.79 | 0.11 | <10 | <2 |
| STD OREAS262 | Standard | 16.5 | 3.67 | 14.57 | 3.18 | 0.62 | 2.91 | 0.39 | 2.17 | 0.39 | 1.07 | 0.14 | 0.87 | 0.12 | <10 | <2 |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | 16.8 | 4.21 | 15.60 | 3.27 | 0.60 | 2.82 | 0.37 | 2.05 | 0.37 | 1.00 | 0.13 | 0.81 | 0.11 | <10 | <2 |
| STD OREAS262 | Standard | 16.3 | 4.25 | 15.83 | 3.31 | 0.62 | 2.91 | 0.38 | 2.11 | 0.39 | 1.05 | 0.14 | 0.84 | 0.12 | <10 | <2 |
| STD OREAS279 | Standard | | | | | | | | | | | | | | | |
| STD OREAS262 | Standard | 17.2 | 3.97 | 15.71 | 3.42 | 0.74 | 3.12 | 0.42 | 2.21 | 0.38 | 1.13 | 0.16 | 0.95 | 0.14 | <10 | <2 |
| STD SO-19 | Standard | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | |



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| | | WGHT | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 |
|-----------------------|----------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Wgt | Ba | Be | Co | Cs | Ga | Hf | Nb | Rb | Sn | Sr | Ta | Th | U | V | W | Zr | Y | La | Ce |
| | | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | | 0.01 | 1 | 1 | 0.2 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 1 | 0.5 | 0.1 | 0.2 | 0.1 | 8 | 0.5 | 0.1 | 0.1 | 0.1 | 0.1 |
| STD SO-19 | Standard | | 442 | 12 | 21.7 | 4.3 | 15.0 | 2.9 | 61.7 | 17.9 | 17 | 296.6 | 4.5 | 13.5 | 20.7 | 151 | 9.2 | 102.0 | 32.2 | 66.5 | 152.7 |
| STD SO-19 | Standard | | 433 | 15 | 20.7 | 4.3 | 17.3 | 2.9 | 66.4 | 19.6 | 17 | 304.9 | 4.5 | 12.8 | 20.2 | 159 | 10.6 | 110.1 | 32.8 | 68.3 | 154.8 |
| STD SO-19 | Standard | | 495 | 23 | 25.1 | 4.7 | 18.1 | 3.2 | 68.6 | 20.2 | 19 | 337.7 | 4.8 | 13.4 | 20.5 | 163 | 9.9 | 120.6 | 34.6 | 72.7 | 164.3 |
| STD SO-19 | Standard | | 496 | 13 | 25.2 | 5.2 | 16.9 | 3.2 | 68.3 | 20.3 | 19 | 345.8 | 4.7 | 13.7 | 19.6 | 164 | 9.8 | 116.3 | 36.4 | 73.5 | 170.3 |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | 428 | 20 | 22.5 | 4.1 | 15.0 | 3.0 | 62.4 | 18.6 | 17 | 287.2 | 4.5 | 13.1 | 18.1 | 152 | 9.8 | 105.7 | 33.0 | 67.0 | 148.1 |
| STD SO-19 | Standard | | 445 | 17 | 23.2 | 4.1 | 16.5 | 2.8 | 64.2 | 18.7 | 17 | 289.4 | 4.5 | 12.8 | 18.1 | 163 | 9.7 | 105.8 | 34.0 | 67.9 | 151.0 |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GS311-1 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD GS910-4 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD BVGEO01 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD COO2 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD OREAS279 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 Expected | | | 486 | 20 | 24 | 4.5 | 17.5 | 3.1 | 68.5 | 19.5 | 19 | 317.1 | 4.9 | 13 | 19.4 | 165 | 9.8 | 112 | 35.5 | 71.3 | 161 |
| STD GGC-09 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD DS11 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 Expected | | | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | | |
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| BLK | Blank | | | | | | | | | | | | | | | | | | | | |



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QUALITY CONTROL REPORT

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| | | LF100 Pr ppm 0.02 | LF100 Nd ppm 0.3 | LF100 Sm ppm 0.05 | LF100 Eu ppm 0.02 | LF100 Gd ppm 0.05 | LF100 Tb ppm 0.01 | LF100 Dy ppm 0.05 | LF100 Ho ppm 0.02 | LF100 Er ppm 0.03 | LF100 Tm ppm 0.01 | LF100 Yb ppm 0.05 | LF100 Lu ppm 0.01 | AQ200 Mo ppm 0.1 | AQ200 Cu ppm 0.1 | AQ200 Pb ppm 0.1 | AQ200 Zn ppm 1 | AQ200 Ni ppm 0.1 | AQ200 As ppm 0.5 | AQ200 Cd ppm 0.1 | AQ200 Sb ppm 0.1 |
|-----------------------|----------|----------------------------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|---------------------------|---------------------------|---------------------------|-------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| STD SO-19 | Standard | 17.73 | 69.1 | 12.21 | 3.42 | 9.96 | 1.32 | 6.81 | 1.34 | 3.66 | 0.52 | 3.35 | 0.51 | | | | | | | | |
| STD SO-19 | Standard | 18.11 | 69.0 | 11.83 | 3.47 | 9.29 | 1.29 | 6.95 | 1.27 | 3.64 | 0.51 | 3.21 | 0.47 | | | | | | | | |
| STD SO-19 | Standard | 19.29 | 76.1 | 13.06 | 3.78 | 10.70 | 1.33 | 7.25 | 1.35 | 3.77 | 0.51 | 3.25 | 0.51 | | | | | | | | |
| STD SO-19 | Standard | 19.82 | 77.7 | 13.11 | 3.73 | 10.88 | 1.36 | 7.34 | 1.43 | 3.76 | 0.52 | 3.38 | 0.49 | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | 18.08 | 70.9 | 12.17 | 3.44 | 10.09 | 1.30 | 6.91 | 1.33 | 3.67 | 0.51 | 3.17 | 0.47 | | | | | | | | |
| STD SO-19 | Standard | 18.22 | 70.7 | 12.29 | 3.54 | 9.98 | 1.29 | 7.05 | 1.34 | 3.57 | 0.48 | 3.27 | 0.48 | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD GS311-1 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD GS910-4 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD BVGE001 Expected | | | | | | | | | | | | | | 10.8 | 4415 | 187 | 1712 | 163 | 121 | 6.25 | 2.2 |
| STD COO2 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD OREAS279 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 Expected | | 19.4 | 75.7 | 13.7 | 3.81 | 10.53 | 1.41 | 7.5 | 1.39 | 3.78 | 0.55 | 3.55 | 0.53 | | | | | | | | |
| STD GGC-09 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD DS11 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 Expected | | | | | | | | | | | | | | 0.68 | 118 | 56 | 154 | 62 | 35.8 | 0.61 | 3.39 |
| BLK | Blank | | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.5 | <0.1 | <0.1 |
| BLK | Blank | | | | | | | | | | | | | | | | | | | | |
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| BLK | Blank | | | | | | | | | | | | | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.5 | <0.1 | <0.1 |
| BLK | Blank | | | | | | | | | | | | | | | | | | | | |



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QUALITY CONTROL REPORT

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| | | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 |
|-----------------------|----------|-------|-------|-------|-------|-------|-------|------------------|--------------------------------|--------------------------------|-------|-------|-------------------|------------------|------------------|-------------------------------|-------|--------------------------------|-------|-------|-------|
| | | Bi | Ag | Au | Hg | Tl | Se | SiO ₂ | Al ₂ O ₃ | Fe ₂ O ₃ | MgO | CaO | Na ₂ O | K ₂ O | TiO ₂ | P ₂ O ₅ | MnO | Cr ₂ O ₃ | Ba | Ni | Sr |
| | | ppm | ppm | ppb | ppm | ppm | ppm | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm |
| | | 0.1 | 0.1 | 0.5 | 0.01 | 0.1 | 0.5 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.002 | 5 | 20 | 2 |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | 60.50 | 13.95 | 7.50 | 2.87 | 5.91 | 4.05 | 1.33 | 0.70 | 0.32 | 0.13 | 0.493 | 466 | 466 | 314 |
| STD SO-19 | Standard | | | | | | | 60.69 | 13.88 | 7.45 | 2.87 | 5.87 | 4.05 | 1.29 | 0.70 | 0.32 | 0.13 | 0.492 | 466 | 459 | 313 |
| STD SO-19 | Standard | | | | | | | 60.62 | 13.94 | 7.47 | 2.88 | 5.94 | 3.96 | 1.30 | 0.70 | 0.33 | 0.13 | 0.497 | 464 | 467 | 315 |
| STD SO-19 | Standard | | | | | | | 60.78 | 13.78 | 7.44 | 2.87 | 5.91 | 4.05 | 1.28 | 0.69 | 0.33 | 0.13 | 0.493 | 465 | 471 | 312 |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | 60.28 | 13.98 | 7.46 | 2.90 | 6.01 | 4.14 | 1.31 | 0.71 | 0.32 | 0.13 | 0.499 | 472 | 477 | 319 |
| STD SO-19 | Standard | | | | | | | 60.70 | 13.94 | 7.38 | 2.89 | 5.91 | 4.00 | 1.28 | 0.71 | 0.31 | 0.13 | 0.491 | 465 | 463 | 318 |
| STD GS311-1 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD GS910-4 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD BVGEO01 Expected | | 24.3 | 2.53 | 214 | 0.1 | 0.62 | 4.84 | | | | | | | | | | | | | | |
| STD COO2 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD OREAS279 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 Expected | | | | | | | | 61.13 | 13.95 | 7.47 | 2.88 | 6 | 4.11 | 1.29 | 0.69 | 0.32 | 0.13 | 0.5 | 486 | 470 | 317.1 |
| STD GGC-09 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD DS11 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD OREAS262 Expected | | 1.03 | 0.45 | 65 | 0.17 | 0.47 | 0.4 | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | <0.1 | <0.1 | <0.5 | <0.01 | <0.1 | <0.5 | | | | | | | | | | | | | | |
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| BLK | Blank | | | | | | | | | | | | | | | | | | | | |
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| BLK | Blank | | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | <0.1 | <0.1 | <0.5 | <0.01 | <0.1 | <0.5 | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | | |



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QUALITY CONTROL REPORT

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| | | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | TC000 | TC005 | TC005 | TC006 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | |
|-----------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | | Zr | Y | Nb | Sc | LOI | Sum | TOT/C | C/ORG | C/GRA | CO2 | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | |
| | | ppm | ppm | ppm | ppm | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppb | ppm | ppm | ppm | % | ppm | |
| | | 5 | 3 | 5 | 1 | -5.1 | 0.01 | 0.02 | 0.02 | 0.02 | 0.08 | 0.01 | 0.01 | 0.01 | 0.1 | 2 | 0.1 | 0.1 | 1 | 0.01 | 0.1 | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | 110 | 34 | 68 | 26 | 1.9 | 99.87 | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | 108 | 33 | 67 | 26 | 1.9 | 99.86 | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | 108 | 35 | 72 | 25 | 1.9 | 99.87 | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | 108 | 34 | 71 | 26 | 1.9 | 99.87 | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | 106 | 34 | 72 | 27 | 1.9 | 99.86 | | | | | | | | | | | | | | | |
| STD SO-19 | Standard | 105 | 33 | 72 | 27 | 1.9 | 99.86 | | | | | | | | | | | | | | | |
| STD GS311-1 Expected | | | | | | | | | 1.02 | | | | | | | | | | | | | |
| STD GS910-4 Expected | | | | | | | | | 2.65 | | | | | | | | | | | | | |
| STD BVGEO01 Expected | | | | | | | | | | | | | | | | | | | | | | |
| STD COO2 Expected | | | | | | | | | | | | 3.43 | | | | | | | | | | |
| STD OREAS279 Expected | | | | | | | | | 1.13 | | | 3.29 | | | | | | | | | | |
| STD SO-19 Expected | | 112 | 35.5 | 68.5 | 27 | | | | | | | | | | | | | | | | | |
| STD GGC-09 Expected | | | | | | | | | | | | 2.41 | | | | | | | | | | |
| STD DS11 Expected | | | | | | | | | | | | | 14.6 | 149 | 138 | 345 | 1710 | 77.7 | 14.2 | 1055 | 3.1 | 42.8 |
| STD OREAS262 Expected | | | | | | | | | | | | | 0.68 | 118 | 56 | 154 | 450 | 62 | 26.9 | 530 | 3.284 | 35.8 |
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Client:

Palmer

470 Granville St. - Suite 630
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Project:

AER

Report Date:

March 07, 2023

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

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QUALITY CONTROL REPORT

VAN22003159.1

| | | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | |
|-----------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|--------|-------|--------|--------|-------|-----|
| | | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W |
| | | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm |
| | | 0.1 | 0.2 | 0.1 | 0.5 | 0.01 | 0.02 | 0.02 | 1 | 0.01 | 0.001 | 0.5 | 0.5 | 0.01 | 0.5 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 |
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| STD GS311-1 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD GS910-4 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD BVGEO01 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD COO2 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD OREAS279 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD DS11 Expected | | 2.59 | 79 | 7.65 | 67.3 | 2.37 | 8.74 | 12.2 | 50 | 1.063 | 0.0701 | 18.6 | 61.5 | 0.85 | 385 | 0.0976 | | 1.1795 | 0.0762 | 0.4 | 2.9 |
| STD OREAS262 Expected | | 1.22 | 65 | 9.33 | 36 | 0.61 | 5.06 | 1.03 | 22.5 | 2.98 | 0.04 | 15.9 | 41.7 | 1.17 | 248 | 0.0027 | 4 | 1.3 | 0.071 | 0.312 | 0.2 |
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QUALITY CONTROL REPORT

VAN22003159.1

| | | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | |
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| | | Sc | Ti | S | Hg | Se | Te | Ga | Cs | Ge | Hf | Nb | Rb | Sn | Ta | Zr | Y | Ce | In | Re | Be |
| | | ppm | ppm | % | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppb | ppm |
| | | 0.1 | 0.02 | 0.02 | 5 | 0.1 | 0.02 | 0.1 | 0.02 | 0.1 | 0.02 | 0.02 | 0.1 | 0.1 | 0.05 | 0.1 | 0.01 | 0.1 | 0.02 | 1 | 0.1 |
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| STD GS311-1 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD GS910-4 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD BVGEO01 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD COO2 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD OREAS279 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD SO-19 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD GGC-09 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD DS11 Expected | | 3.4 | 4.9 | 0.2835 | 260 | 2.2 | 4.56 | 5.1 | 2.88 | 0.08 | 0.06 | 1.53 | 33.6 | 1.8 | | 3.1 | 7.82 | 37 | 0.24 | 50 | 0.67 |
| STD OREAS262 Expected | | 3.24 | 0.47 | 0.253 | 170 | 0.4 | 0.23 | 4.1 | 2.8 | | 0.27 | | 18.6 | 0.5 | | 11.7 | 11.2 | 32 | 0.033 | | 1.14 |
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PHONE (604) 253-3158

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QUALITY CONTROL REPORT

VAN22003159.1

| | | AQ251 Li ppm 0.1 | AQ251 Pr ppm 0.02 | AQ251 Nd ppm 0.02 | AQ251 Sm ppm 0.02 | AQ251 Eu ppm 0.02 | AQ251 Gd ppm 0.02 | AQ251 Tb ppm 0.02 | AQ251 Dy ppm 0.02 | AQ251 Ho ppm 0.02 | AQ251 Er ppm 0.02 | AQ251 Tm ppm 0.02 | AQ251 Yb ppm 0.02 | AQ251 Lu ppm 0.02 | AQ251 Pd ppb 10 | AQ251 Pt ppb 2 |
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| STD GS311-1 Expected | | | | | | | | | | | | | | | | |
| STD GS910-4 Expected | | | | | | | | | | | | | | | | |
| STD BVGE001 Expected | | | | | | | | | | | | | | | | |
| STD COO2 Expected | | | | | | | | | | | | | | | | |
| STD OREAS279 Expected | | | | | | | | | | | | | | | | |
| STD SO-19 Expected | | | | | | | | | | | | | | | | |
| STD GGC-09 Expected | | | | | | | | | | | | | | | | |
| STD DS11 Expected | | 23.3 | 4 | 14.9 | 2.68 | 0.54 | 2.22 | 0.29 | 1.57 | 0.29 | 0.81 | 0.11 | 0.75 | 0.11 | 100 | 172 |
| STD OREAS262 Expected | | 17.8 | 4 | 15 | 3.3 | 0.72 | 2.93 | 0.43 | 2.29 | 0.41 | 1.07 | 0.14 | 0.9 | 0.13 | | |
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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

QUALITY CONTROL REPORT

VAN22003159.1

| | | WGHT | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 |
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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

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QUALITY CONTROL REPORT

VAN22003159.1

| | | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | LF100 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu | Mo | Cu | Pb | Zn | Ni | As | Cd | Sb |
| | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | | 0.02 | 0.3 | 0.05 | 0.02 | 0.05 | 0.01 | 0.05 | 0.02 | 0.03 | 0.01 | 0.05 | 0.01 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.5 | 0.1 | 0.1 |
| BLK | Blank | | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | | |
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| BLK | Blank | | | | | | | | | | | | | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.5 | <0.1 | <0.1 |
| BLK | Blank | | | | | | | | | | | | | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.5 | <0.1 | <0.1 |
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| BLK | Blank | <0.02 | <0.3 | <0.05 | <0.02 | <0.05 | <0.01 | <0.05 | <0.02 | <0.03 | <0.01 | <0.05 | <0.01 | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | <0.02 | <0.3 | <0.05 | <0.02 | <0.05 | <0.01 | <0.05 | <0.02 | <0.03 | <0.01 | <0.05 | <0.01 | | | | | | | | |
| BLK | Blank | <0.02 | <0.3 | <0.05 | <0.02 | <0.05 | <0.01 | <0.05 | <0.02 | <0.03 | <0.01 | <0.05 | <0.01 | | | | | | | | |
| BLK | Blank | <0.02 | <0.3 | <0.05 | <0.02 | <0.05 | <0.01 | <0.05 | <0.02 | <0.03 | <0.01 | <0.05 | <0.01 | | | | | | | | |
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**BUREAU
VERITAS**

MINERAL LABORATORIES
Canada

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Client:

Palmer

470 Granville St. - Suite 630

Vancouver British Columbia V6C 1V5 Canada

Project:

AER

Report Date:

March 07, 2023

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

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QUALITY CONTROL REPORT

VAN22003159.1

| | | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|
| | | Bi | Ag | Au | Hg | Tl | Se | SiO2 | Al2O3 | Fe2O3 | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | MnO | Cr2O3 | Ba | Ni | Sr |
| | | ppm | ppm | ppb | ppm | ppm | ppm | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm |
| | | 0.1 | 0.1 | 0.5 | 0.01 | 0.1 | 0.5 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.002 | 5 | 20 | 2 |
| BLK | Blank | | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | 0.02 | <0.01 | <0.04 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.002 | <5 | <20 | <2 |
| BLK | Blank | | | | | | | <0.01 | <0.01 | <0.04 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.002 | <5 | <20 | <2 |
| BLK | Blank | <0.1 | <0.1 | <0.5 | <0.01 | <0.1 | <0.5 | | | | | | | | | | | | | | |
| BLK | Blank | <0.1 | <0.1 | <0.5 | <0.01 | <0.1 | <0.5 | | | | | | | | | | | | | | |
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| BLK | Blank | | | | | | | 0.02 | <0.01 | <0.04 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.002 | <5 | <20 | <2 |
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QUALITY CONTROL REPORT

VAN22003159.1

| | | LF300 | LF300 | LF300 | LF300 | LF300 | LF300 | TC000 | TC005 | TC005 | TC006 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | | Zr | Y | Nb | Sc | LOI | Sum | TOT/C | C/ORG | C/GRA | CO2 | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | |
| | | ppm | ppm | ppm | ppm | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppb | ppm | ppm | ppm | % | ppm | |
| | | 5 | 3 | 5 | 1 | -5.1 | 0.01 | 0.02 | 0.02 | 0.02 | 0.08 | 0.01 | 0.01 | 0.01 | 0.1 | 2 | 0.1 | 0.1 | 1 | 0.01 | 0.1 | |
| BLK | Blank | | | | | | | | | | | | <0.01 | <0.01 | <0.01 | <0.1 | <2 | <0.1 | <0.1 | <1 | <0.01 | <0.1 |
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| BLK | Blank | | | | | | | | | | | | <0.01 | 0.04 | <0.01 | 0.2 | <2 | <0.1 | <0.1 | <1 | <0.01 | <0.1 |
| BLK | Blank | | | | | | | | | | | | <0.01 | <0.01 | <0.01 | 0.2 | <2 | <0.1 | <0.1 | <1 | <0.01 | <0.1 |
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QUALITY CONTROL REPORT

VAN22003159.1

| | | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|
| | | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W |
| | | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm |
| | | 0.1 | 0.2 | 0.1 | 0.5 | 0.01 | 0.02 | 0.02 | 1 | 0.01 | 0.001 | 0.5 | 0.5 | 0.01 | 0.5 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 |
| BLK | Blank | <0.1 | <0.2 | <0.1 | <0.5 | <0.01 | <0.02 | <0.02 | <1 | <0.01 | <0.001 | <0.5 | <0.5 | <0.01 | <0.5 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 |
| BLK | Blank | <0.1 | <0.2 | <0.1 | <0.5 | <0.01 | <0.02 | <0.02 | <1 | <0.01 | <0.001 | <0.5 | <0.5 | <0.01 | <0.5 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 |
| BLK | Blank | | | | | | | | | | | | | | | | | | | | |
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| BLK | Blank | <0.1 | <0.2 | <0.1 | <0.5 | <0.01 | <0.02 | <0.02 | <1 | <0.01 | <0.001 | <0.5 | <0.5 | <0.01 | <0.5 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 |
| BLK | Blank | <0.1 | <0.2 | <0.1 | <0.5 | <0.01 | <0.02 | <0.02 | <1 | <0.01 | <0.001 | <0.5 | <0.5 | <0.01 | <0.5 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 |
| BLK | Blank | | | | | | | | | | | | | | | | | | | | |
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| BLK | Blank | <0.1 | <0.2 | <0.1 | <0.5 | <0.01 | <0.02 | <0.02 | <1 | <0.01 | <0.001 | <0.5 | <0.5 | <0.01 | <0.5 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 |



**BUREAU
VERITAS**

MINERAL LABORATORIES
Canada

www.bvna.com/mining-laboratory-services

Client:

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Project:

AER

Report Date:

March 07, 2023

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

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QUALITY CONTROL REPORT

VAN22003159.1

| | | AQ251 Sc ppm 0.1 | AQ251 Ti ppm 0.02 | AQ251 S % 0.02 | AQ251 Hg ppb 5 | AQ251 Se ppm 0.1 | AQ251 Te ppm 0.02 | AQ251 Ga ppm 0.1 | AQ251 Cs ppm 0.02 | AQ251 Ge ppm 0.1 | AQ251 Hf ppm 0.02 | AQ251 Nb ppm 0.02 | AQ251 Rb ppm 0.1 | AQ251 Sn ppm 0.1 | AQ251 Ta ppm 0.05 | AQ251 Zr ppm 0.1 | AQ251 Y ppm 0.01 | AQ251 Ce ppm 0.1 | AQ251 In ppm 0.02 | AQ251 Re ppb 1 | AQ251 Be ppm 0.1 |
|-----|-------|---------------------------|----------------------------|-------------------------|-------------------------|---------------------------|----------------------------|---------------------------|----------------------------|---------------------------|----------------------------|----------------------------|---------------------------|---------------------------|----------------------------|---------------------------|---------------------------|---------------------------|----------------------------|-------------------------|---------------------------|
| BLK | Blank | <0.1 | <0.02 | <0.02 | <5 | <0.1 | <0.02 | <0.1 | <0.02 | <0.1 | <0.02 | <0.02 | <0.1 | <0.1 | <0.05 | <0.1 | <0.01 | <0.1 | <0.02 | <1 | <0.1 |
| BLK | Blank | <0.1 | <0.02 | <0.02 | <5 | <0.1 | <0.02 | <0.1 | <0.02 | <0.1 | <0.02 | <0.02 | <0.1 | <0.1 | <0.05 | <0.1 | <0.01 | <0.1 | <0.02 | <1 | <0.1 |
| BLK | Blank | | | | | | | | | | | | | | | | | | | | |
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| BLK | Blank | <0.1 | <0.02 | <0.02 | <5 | <0.1 | <0.02 | <0.1 | <0.02 | <0.1 | <0.02 | <0.02 | <0.1 | <0.1 | <0.05 | <0.1 | <0.01 | <0.1 | <0.02 | <1 | <0.1 |
| BLK | Blank | <0.1 | <0.02 | <0.02 | <5 | <0.1 | <0.02 | <0.1 | <0.02 | <0.1 | <0.02 | <0.02 | <0.1 | <0.1 | <0.05 | <0.1 | <0.01 | <0.1 | <0.02 | <1 | <0.1 |
| BLK | Blank | | | | | | | | | | | | | | | | | | | | |
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| BLK | Blank | <0.1 | <0.02 | <0.02 | <5 | <0.1 | <0.02 | <0.1 | <0.02 | <0.1 | <0.02 | <0.02 | <0.1 | <0.1 | <0.05 | 0.2 | <0.01 | <0.1 | <0.02 | <1 | <0.1 |



**BUREAU
VERITAS**

MINERAL LABORATORIES
Canada

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PHONE (604) 253-3158

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QUALITY CONTROL REPORT

VAN22003159.1

| | | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Li | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu | Pd |
| | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppb |
| | | 0.1 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 10 |
| | | | | | | | | | | | | | | | 2 |
| BLK | Blank | <0.1 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <10 |
| BLK | Blank | <0.1 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <10 |
| BLK | Blank | | | | | | | | | | | | | | |
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| BLK | Blank | | | | | | | | | | | | | | |
| BLK | Blank | <0.1 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <10 |
| BLK | Blank | <0.1 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <10 |
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| BLK | Blank | <0.1 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <10 |