



**BUREAU** MINERAL LABORATORIES  
**VERITAS** Canada

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Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
PHONE (604) 253-3158

**Client:** **Tectonic Metals Inc.**  
595 Burrard St.  
Suite 2600  
Vancouver British Columbia V7X 1L7 Canada

Submitted By: Greg Dawson  
Receiving Lab: Canada-Whitehorse  
Received: July 06, 2018  
Report Date: August 03, 2018  
Page: 1 of 6

## CERTIFICATE OF ANALYSIS

WHI18000288.1

### CLIENT JOB INFORMATION

Project: MCQ  
Shipment ID: MCQ-20180703-001-PROBE  
P.O. Number  
Number of Samples: 138

### SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT Dispose of Reject After 60 days

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: Ground Truth Exploration Inc.  
Box 70  
Dawson Yukon Y0B 1G0  
Canada

CC: Eric Buitenhuis  
Isaac Fage

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Procedure Code | Number of Samples | Code Description                                    | Test Wgt (g) | Report Status | Lab |
|----------------|-------------------|---|--------------|---------------|-----|
| PRP70-250      | 138               | Crush, split and pulverize 250 g rock to 200 mesh   |              |               | WHI |
| FA430          | 138               | Lead Collection Fire - Assay Fusion - AAS Finish    | 30           | Completed     | VAN |
| EN002          | 138               | Environmental disposal charge-Fire assay lead waste |              |               | VAN |
| AQ200          | 138               | 1:1:1 Aqua Regia digestion ICP-MS analysis          | 0.5          | Completed     | VAN |
| SHP01          | 138               | Per sample shipping charges for branch shipments    |              |               | VAN |

### ADDITIONAL COMMENTS

  
JEFFREY CANNON  
Geochemistry Department Supervisor

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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**Page:** 2 of 6

**Part:** 1 of 2

# CERTIFICATE OF ANALYSIS

WHI18000288.1

|         | Method<br>Analyte<br>Unit<br>MDL | WGHT | FA430  | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |
|---------|----------------------------------|------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|         |                                  | Wgt  | Au     | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    |
|         |                                  | kg   | ppm    | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     |
|         |                                  | 0.01 | 0.005  | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  |
| 1645112 | Rock                             | 0.98 | <0.005 | 0.6   | 62.3  | 21.6  | 79    | 0.1   | 12.7  | 5.1   | 158   | 4.67  | 0.7   | 3.5   | 20.0  | 11    | <0.1  | <0.1  | 0.4   | 13    | 0.07  |
| 1645113 | Rock                             | 0.81 | <0.005 | 0.6   | 54.8  | 6.3   | 82    | <0.1  | 32.9  | 22.2  | 805   | 3.99  | 1.2   | 3.0   | 4.2   | 124   | 0.1   | 0.2   | <0.1  | 66    | 3.85  |
| 1645114 | Rock                             | 0.76 | <0.005 | 0.2   | 50.3  | 2.7   | 67    | <0.1  | 117.7 | 30.9  | 978   | 5.55  | 10.0  | 1.9   | 1.3   | 85    | <0.1  | 0.2   | <0.1  | 93    | 2.11  |
| 1645115 | Rock                             | 1.06 | <0.005 | 0.2   | 78.2  | 3.2   | 58    | <0.1  | 195.6 | 35.1  | 780   | 4.72  | 21.5  | 2.7   | 1.9   | 75    | <0.1  | 0.4   | <0.1  | 87    | 1.63  |
| 1645116 | Rock                             | 1.01 | 0.006  | 0.5   | 52.2  | 16.5  | 86    | 0.1   | 40.4  | 13.6  | 328   | 3.61  | 9.0   | 3.9   | 20.3  | 8     | <0.1  | 0.7   | 0.3   | 15    | 0.12  |
| 1645117 | Rock                             | 0.95 | <0.005 | 0.5   | 19.5  | 11.7  | 48    | <0.1  | 25.0  | 9.7   | 319   | 2.59  | 3.2   | <0.5  | 17.1  | 11    | <0.1  | 0.2   | 0.1   | 11    | 0.06  |
| 1645118 | Rock                             | 0.87 | <0.005 | 0.4   | 15.2  | 11.8  | 37    | <0.1  | 17.2  | 6.8   | 215   | 2.09  | 1.8   | 1.5   | 9.5   | 7     | <0.1  | 0.2   | <0.1  | 13    | 0.06  |
| 1645119 | Rock                             | 0.93 | <0.005 | 0.5   | 26.3  | 8.0   | 55    | <0.1  | 18.0  | 8.6   | 181   | 2.90  | 1.2   | 2.4   | 16.8  | 11    | <0.1  | 0.1   | 0.2   | 10    | 0.07  |
| 1645120 | Rock                             | 0.87 | <0.005 | 0.3   | 14.9  | 7.6   | 34    | <0.1  | 22.0  | 9.6   | 373   | 1.88  | 0.7   | 2.3   | 11.1  | 8     | <0.1  | <0.1  | <0.1  | 7     | 0.05  |
| 1645121 | Rock                             | 0.95 | <0.005 | 0.5   | 12.2  | 10.7  | 40    | <0.1  | 15.7  | 6.2   | 303   | 2.11  | 1.2   | 0.8   | 10.6  | 8     | <0.1  | <0.1  | <0.1  | 12    | 0.05  |
| 1645122 | Rock                             | 0.85 | <0.005 | 0.6   | 26.3  | 6.2   | 51    | <0.1  | 25.0  | 15.4  | 551   | 3.41  | 3.7   | 1.3   | 9.8   | 18    | <0.1  | 0.2   | <0.1  | 35    | 0.20  |
| 1645123 | Rock                             | 0.89 | <0.005 | 0.7   | 23.6  | 7.2   | 64    | <0.1  | 28.4  | 17.2  | 672   | 3.96  | 7.1   | <0.5  | 9.6   | 17    | <0.1  | 0.2   | <0.1  | 44    | 0.24  |
| 1645124 | Rock                             | 0.98 | <0.005 | 0.9   | 34.1  | 19.7  | 59    | <0.1  | 38.9  | 12.1  | 374   | 3.11  | 7.1   | 3.2   | 13.0  | 12    | <0.1  | 0.5   | 0.3   | 19    | 0.07  |
| 1645125 | Rock                             | 0.80 | <0.005 | 0.5   | 12.0  | 11.6  | 41    | <0.1  | 22.7  | 9.4   | 302   | 1.94  | 0.8   | 2.1   | 10.2  | 7     | <0.1  | 0.2   | 0.1   | 9     | 0.04  |
| 1645126 | Rock                             | 0.38 | <0.005 | <0.1  | 0.2   | 0.4   | <1    | <0.1  | <0.1  | 0.2   | 77    | 0.07  | <0.5  | 2.2   | <0.1  | 70    | <0.1  | <0.1  | <0.1  | <1    | 32.75 |
| 1645127 | Rock                             | 0.72 | <0.005 | 0.5   | 17.5  | 8.9   | 48    | <0.1  | 24.5  | 9.2   | 262   | 2.15  | 1.6   | <0.5  | 10.5  | 8     | <0.1  | 0.1   | 0.1   | 9     | 0.10  |
| 1645128 | Rock                             | 0.91 | <0.005 | 0.9   | 28.6  | 9.9   | 64    | <0.1  | 27.6  | 11.0  | 336   | 2.93  | 5.2   | 0.9   | 12.2  | 12    | 0.1   | 0.5   | 0.1   | 15    | 0.09  |
| 1645129 | Rock                             | 0.93 | <0.005 | 1.3   | 19.2  | 11.2  | 56    | 0.1   | 21.4  | 7.2   | 334   | 2.24  | 6.2   | 1.2   | 7.6   | 13    | 0.3   | 0.5   | 0.2   | 19    | 0.13  |
| 1645130 | Rock                             | 0.96 | <0.005 | 0.9   | 21.2  | 8.9   | 52    | <0.1  | 22.9  | 7.6   | 299   | 2.11  | 6.5   | 1.5   | 7.0   | 13    | 0.3   | 0.6   | 0.1   | 19    | 0.11  |
| 1645131 | Rock                             | 0.76 | <0.005 | 0.9   | 22.4  | 8.2   | 55    | <0.1  | 24.2  | 8.5   | 335   | 2.29  | 5.5   | <0.5  | 6.2   | 15    | 0.3   | 0.6   | 0.2   | 22    | 0.14  |
| 1645132 | Rock                             | 0.68 | 0.018  | 1.5   | 26.0  | 8.6   | 86    | 0.1   | 27.7  | 7.7   | 397   | 2.43  | 8.4   | 0.9   | 5.8   | 22    | 0.6   | 0.8   | 0.1   | 31    | 0.20  |
| 1645133 | Rock                             | 0.90 | 0.007  | 1.6   | 40.9  | 27.7  | 74    | 0.1   | 20.7  | 7.9   | 297   | 3.28  | 5.2   | 1.4   | 13.6  | 15    | 0.2   | 0.4   | 0.5   | 17    | 0.08  |
| 1645134 | Rock                             | 0.93 | <0.005 | 0.8   | 34.2  | 10.5  | 76    | <0.1  | 26.1  | 13.2  | 337   | 3.22  | 3.3   | 1.3   | 16.2  | 15    | 0.2   | 0.2   | 0.2   | 13    | 0.03  |
| 1645135 | Rock                             | 0.86 | <0.005 | 1.2   | 21.3  | 8.8   | 55    | <0.1  | 23.4  | 9.2   | 314   | 2.44  | 6.2   | 1.1   | 7.8   | 8     | 0.1   | 0.4   | 0.2   | 16    | 0.06  |
| 1645136 | Rock                             | 0.58 | 0.010  | 1.0   | 13.4  | 7.7   | 50    | <0.1  | 17.6  | 5.9   | 184   | 2.65  | 9.5   | 73.6  | 4.6   | 8     | <0.1  | 0.4   | 0.1   | 19    | 0.05  |
| 1645137 | Rock                             | 0.96 | <0.005 | 1.6   | 33.4  | 26.4  | 81    | <0.1  | 25.7  | 10.9  | 221   | 4.02  | 6.6   | 3.8   | 11.8  | 7     | <0.1  | 0.5   | 0.5   | 11    | 0.02  |
| 1645138 | Rock                             | 0.94 | 0.005  | 0.6   | 13.4  | 9.6   | 51    | <0.1  | 15.9  | 7.5   | 310   | 2.26  | 3.7   | 1.4   | 9.4   | 5     | <0.1  | 0.4   | 0.1   | 9     | 0.02  |
| 1645139 | Rock                             | 0.76 | 0.007  | 1.0   | 35.2  | 15.3  | 80    | <0.1  | 34.4  | 16.0  | 408   | 3.41  | 6.6   | 67.6  | 14.3  | 9     | 0.2   | 0.8   | 0.3   | 12    | 0.03  |
| 1645140 | Rock                             | 0.83 | <0.005 | 0.5   | 37.3  | 14.6  | 73    | <0.1  | 31.0  | 13.5  | 340   | 3.22  | 2.4   | 1.9   | 13.5  | 11    | <0.1  | 0.2   | 0.2   | 11    | 0.05  |
| 1645141 | Rock                             | 1.00 | <0.005 | 0.5   | 12.7  | 9.7   | 53    | <0.1  | 22.9  | 9.6   | 320   | 2.63  | 5.6   | 0.7   | 12.2  | 10    | <0.1  | 0.2   | 0.2   | 7     | 0.04  |



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**Project:** MCQ  
**Report Date:** August 03, 2018

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**Part:** 2 of 2

# CERTIFICATE OF ANALYSIS

WHI18000288.1

|         | Method | Analyte | AQ200 |     |      |      |        |       |      |       |       |      |       |      |      |       |      |      |      |     |
|---------|--------|---------|-------|-----|------|------|--------|-------|------|-------|-------|------|-------|------|------|-------|------|------|------|-----|
|         |        |         | P     | La  | Cr   | Mg   | Ba     | Ti    | B    | Al    | Na    | K    | W     | Hg   | Sc   | Tl    | S    | Ga   | Se   | Te  |
|         |        |         | %     | ppm | ppm  | %    | ppm    | %     | ppm  | %     | %     | %    | ppm   | ppm  | ppm  | ppm   | %    | ppm  | ppm  | ppm |
|         |        |         | 0.001 | 1   | 1    | 0.01 | 1      | 0.001 | 20   | 0.01  | 0.001 | 0.01 | 0.1   | 0.01 | 0.1  | 0.1   | 0.05 | 1    | 0.5  | 0.2 |
| 1645112 | Rock   | 0.034   | 30    | 20  | 0.73 | 136  | 0.007  | <20   | 1.68 | 0.012 | 0.24  | <0.1 | 0.01  | 1.7  | <0.1 | <0.05 | 4    | <0.5 | <0.2 |     |
| 1645113 | Rock   | 0.064   | 11    | 36  | 1.49 | 34   | 0.193  | <20   | 2.29 | 0.021 | 0.03  | <0.1 | <0.01 | 3.7  | <0.1 | <0.05 | 5    | <0.5 | <0.2 |     |
| 1645114 | Rock   | 0.088   | 8     | 238 | 3.60 | 52   | 0.198  | <20   | 4.15 | 0.011 | 0.03  | 0.2  | 0.01  | 4.5  | <0.1 | <0.05 | 7    | <0.5 | <0.2 |     |
| 1645115 | Rock   | 0.079   | 11    | 319 | 3.44 | 66   | 0.183  | <20   | 3.57 | 0.010 | 0.03  | 0.1  | <0.01 | 7.9  | <0.1 | <0.05 | 7    | <0.5 | <0.2 |     |
| 1645116 | Rock   | 0.035   | 48    | 24  | 0.69 | 152  | 0.004  | <20   | 1.65 | 0.010 | 0.29  | <0.1 | 0.02  | 2.8  | <0.1 | <0.05 | 4    | <0.5 | <0.2 |     |
| 1645117 | Rock   | 0.024   | 36    | 15  | 0.36 | 97   | 0.003  | <20   | 0.95 | 0.020 | 0.22  | <0.1 | 0.01  | 2.2  | <0.1 | <0.05 | 3    | <0.5 | <0.2 |     |
| 1645118 | Rock   | 0.019   | 24    | 15  | 0.25 | 47   | 0.003  | <20   | 0.65 | 0.031 | 0.09  | <0.1 | <0.01 | 2.5  | <0.1 | <0.05 | 2    | <0.5 | <0.2 |     |
| 1645119 | Rock   | 0.024   | 33    | 15  | 0.58 | 79   | 0.003  | <20   | 1.31 | 0.014 | 0.25  | <0.1 | <0.01 | 1.5  | <0.1 | <0.05 | 3    | <0.5 | <0.2 |     |
| 1645120 | Rock   | 0.019   | 27    | 12  | 0.30 | 73   | 0.002  | <20   | 0.80 | 0.024 | 0.19  | <0.1 | <0.01 | 1.6  | <0.1 | <0.05 | 3    | <0.5 | <0.2 |     |
| 1645121 | Rock   | 0.018   | 22    | 15  | 0.34 | 73   | 0.003  | <20   | 0.82 | 0.027 | 0.13  | <0.1 | 0.01  | 2.0  | <0.1 | <0.05 | 3    | <0.5 | <0.2 |     |
| 1645122 | Rock   | 0.076   | 26    | 17  | 0.73 | 104  | 0.006  | <20   | 1.47 | 0.026 | 0.15  | <0.1 | 0.01  | 4.4  | <0.1 | <0.05 | 5    | <0.5 | <0.2 |     |
| 1645123 | Rock   | 0.108   | 29    | 17  | 0.72 | 86   | 0.007  | <20   | 1.48 | 0.031 | 0.11  | <0.1 | <0.01 | 5.1  | <0.1 | <0.05 | 6    | <0.5 | <0.2 |     |
| 1645124 | Rock   | 0.036   | 33    | 32  | 0.62 | 158  | 0.003  | <20   | 1.29 | 0.015 | 0.18  | <0.1 | 0.03  | 3.1  | <0.1 | <0.05 | 3    | <0.5 | <0.2 |     |
| 1645125 | Rock   | 0.019   | 20    | 13  | 0.39 | 51   | 0.003  | <20   | 0.85 | 0.029 | 0.12  | <0.1 | 0.01  | 1.7  | <0.1 | <0.05 | 2    | <0.5 | <0.2 |     |
| 1645126 | Rock   | 0.005   | 1     | <1  | 0.36 | 11   | <0.001 | <20   | 0.01 | 0.001 | <0.01 | <0.1 | <0.01 | 0.2  | <0.1 | <0.05 | <1   | <0.5 | <0.2 |     |
| 1645127 | Rock   | 0.019   | 24    | 13  | 0.33 | 66   | 0.003  | <20   | 0.83 | 0.023 | 0.13  | <0.1 | 0.01  | 1.5  | <0.1 | <0.05 | 3    | <0.5 | <0.2 |     |
| 1645128 | Rock   | 0.032   | 28    | 19  | 0.42 | 150  | 0.009  | <20   | 1.05 | 0.020 | 0.17  | <0.1 | 0.03  | 2.2  | <0.1 | <0.05 | 3    | <0.5 | <0.2 |     |
| 1645129 | Rock   | 0.040   | 19    | 17  | 0.32 | 250  | 0.012  | <20   | 0.81 | 0.018 | 0.13  | 0.2  | 0.02  | 2.1  | <0.1 | <0.05 | 3    | <0.5 | <0.2 |     |
| 1645130 | Rock   | 0.041   | 19    | 18  | 0.34 | 203  | 0.021  | <20   | 0.77 | 0.015 | 0.11  | 0.2  | 0.03  | 2.2  | <0.1 | <0.05 | 2    | <0.5 | <0.2 |     |
| 1645131 | Rock   | 0.041   | 18    | 22  | 0.43 | 192  | 0.034  | <20   | 0.89 | 0.015 | 0.11  | 0.2  | 0.03  | 2.0  | <0.1 | <0.05 | 3    | <0.5 | <0.2 |     |
| 1645132 | Rock   | 0.071   | 17    | 21  | 0.40 | 499  | 0.020  | <20   | 0.92 | 0.015 | 0.13  | 0.2  | 0.04  | 2.8  | <0.1 | <0.05 | 3    | <0.5 | <0.2 |     |
| 1645133 | Rock   | 0.049   | 34    | 21  | 0.52 | 184  | 0.007  | <20   | 1.17 | 0.015 | 0.20  | 0.2  | <0.01 | 1.9  | <0.1 | <0.05 | 3    | <0.5 | <0.2 |     |
| 1645134 | Rock   | 0.031   | 41    | 17  | 0.58 | 115  | 0.002  | <20   | 1.34 | 0.016 | 0.22  | <0.1 | 0.01  | 1.7  | <0.1 | <0.05 | 4    | <0.5 | <0.2 |     |
| 1645135 | Rock   | 0.032   | 19    | 20  | 0.38 | 91   | 0.012  | <20   | 0.87 | 0.015 | 0.12  | <0.1 | <0.01 | 1.8  | <0.1 | <0.05 | 3    | <0.5 | <0.2 |     |
| 1645136 | Rock   | 0.035   | 20    | 19  | 0.38 | 67   | 0.010  | <20   | 0.90 | 0.014 | 0.13  | 0.1  | <0.01 | 1.4  | <0.1 | <0.05 | 3    | <0.5 | <0.2 |     |
| 1645137 | Rock   | 0.038   | 32    | 14  | 0.21 | 60   | 0.004  | <20   | 0.75 | 0.016 | 0.19  | 0.1  | <0.01 | 1.5  | <0.1 | <0.05 | 2    | <0.5 | <0.2 |     |
| 1645138 | Rock   | 0.027   | 20    | 10  | 0.15 | 49   | 0.004  | <20   | 0.56 | 0.022 | 0.13  | <0.1 | 0.01  | 1.4  | <0.1 | <0.05 | 2    | <0.5 | <0.2 |     |
| 1645139 | Rock   | 0.034   | 38    | 14  | 0.36 | 106  | 0.004  | <20   | 1.01 | 0.016 | 0.19  | <0.1 | 0.02  | 2.2  | <0.1 | <0.05 | 3    | <0.5 | <0.2 |     |
| 1645140 | Rock   | 0.031   | 34    | 14  | 0.44 | 120  | 0.002  | <20   | 1.14 | 0.017 | 0.17  | <0.1 | 0.01  | 1.9  | <0.1 | <0.05 | 3    | <0.5 | <0.2 |     |
| 1645141 | Rock   | 0.016   | 27    | 9   | 0.16 | 44   | <0.001 | <20   | 0.70 | 0.013 | 0.13  | <0.1 | <0.01 | 1.7  | <0.1 | <0.05 | 2    | <0.5 | <0.2 |     |



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**Project:** MCQ  
**Report Date:** August 03, 2018

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**Part:** 1 of 2

# CERTIFICATE OF ANALYSIS

WHI18000288.1

|         | Method<br>Analyte<br>Unit<br>MDL | WGHT | FA430  | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |
|---------|----------------------------------|------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|         |                                  | Wgt  | Au     | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    |
|         |                                  | kg   | ppm    | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     |
|         |                                  | 0.01 | 0.005  | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  |
| 1645142 | Rock                             | 0.97 | 0.005  | 0.7   | 21.4  | 12.0  | 58    | <0.1  | 30.8  | 12.6  | 327   | 2.94  | 2.4   | 2.6   | 13.1  | 10    | <0.1  | 0.2   | 0.2   | 8     | 0.05  |
| 1645143 | Rock                             | 1.02 | <0.005 | 1.1   | 30.9  | 10.3  | 65    | <0.1  | 29.9  | 12.4  | 375   | 3.37  | 1.3   | <0.5  | 15.0  | 10    | <0.1  | 0.2   | 0.2   | 8     | 0.03  |
| 1645144 | Rock                             | 0.73 | <0.005 | 0.5   | 33.8  | 11.7  | 68    | <0.1  | 35.2  | 15.6  | 307   | 3.14  | 3.3   | 0.6   | 19.4  | 12    | <0.1  | 0.1   | 0.2   | 8     | 0.05  |
| 1645145 | Rock                             | 0.99 | 0.005  | 0.8   | 21.7  | 10.3  | 57    | <0.1  | 27.5  | 11.6  | 448   | 2.96  | 9.6   | 2.7   | 11.9  | 11    | <0.1  | 0.3   | 0.1   | 7     | 0.03  |
| 1645146 | Rock                             | 1.01 | <0.005 | 0.5   | 34.0  | 13.3  | 66    | <0.1  | 27.8  | 17.9  | 303   | 3.30  | 5.5   | 2.1   | 12.8  | 10    | <0.1  | 0.2   | 0.3   | 6     | 0.02  |
| 1645147 | Rock                             | 0.98 | <0.005 | 0.8   | 18.6  | 8.3   | 62    | <0.1  | 18.9  | 8.4   | 329   | 2.08  | 4.6   | 1.3   | 7.7   | 7     | 0.2   | 0.3   | 0.1   | 17    | 0.06  |
| 1645148 | Rock                             | 1.01 | <0.005 | 1.2   | 25.5  | 9.7   | 70    | 0.1   | 25.1  | 8.5   | 349   | 2.43  | 5.0   | 2.3   | 9.1   | 8     | 0.5   | 0.4   | 0.2   | 17    | 0.06  |
| 1645149 | Rock                             | 0.99 | <0.005 | 1.0   | 26.9  | 11.8  | 79    | 0.1   | 26.1  | 10.5  | 448   | 2.76  | 3.8   | 3.4   | 9.3   | 9     | 0.3   | 0.3   | 0.2   | 17    | 0.05  |
| 1645150 | Rock                             | 0.97 | <0.005 | 1.1   | 31.1  | 11.7  | 79    | 0.1   | 32.7  | 10.6  | 383   | 2.71  | 5.6   | 1.5   | 10.6  | 12    | 0.4   | 0.4   | 0.2   | 17    | 0.07  |
| 1645151 | Rock                             | 0.45 | <0.005 | <0.1  | 0.3   | 0.4   | <1    | <0.1  | <0.1  | 0.4   | 82    | 0.08  | <0.5  | 5.3   | <0.1  | 74    | <0.1  | <0.1  | <0.1  | <1    | 33.61 |
| 1645152 | Rock                             | 0.98 | <0.005 | 1.2   | 24.2  | 11.3  | 80    | 0.1   | 28.9  | 9.6   | 383   | 2.61  | 5.0   | 1.5   | 9.1   | 10    | 0.4   | 0.5   | 0.2   | 18    | 0.07  |
| 1645153 | Rock                             | 0.91 | <0.005 | 1.1   | 20.4  | 8.7   | 50    | 0.1   | 22.7  | 11.2  | 624   | 2.06  | 3.8   | 0.8   | 9.0   | 7     | 0.3   | 0.3   | 0.2   | 10    | 0.04  |
| 1645154 | Rock                             | 1.00 | 0.005  | 1.5   | 31.7  | 10.9  | 80    | 0.1   | 28.0  | 11.1  | 548   | 2.76  | 7.2   | 2.6   | 9.4   | 12    | 0.4   | 0.5   | 0.2   | 22    | 0.10  |
| 1645155 | Rock                             | 0.90 | <0.005 | 1.4   | 24.4  | 8.9   | 68    | 0.1   | 23.4  | 10.3  | 412   | 2.13  | 6.8   | 1.5   | 6.4   | 12    | 0.4   | 0.5   | 0.2   | 22    | 0.10  |
| 1645156 | Rock                             | 0.88 | <0.005 | 1.3   | 30.8  | 10.9  | 80    | 0.1   | 31.2  | 12.9  | 585   | 2.79  | 6.8   | 2.2   | 8.4   | 11    | 0.3   | 0.4   | 0.2   | 23    | 0.08  |
| 1645157 | Rock                             | 0.94 | 0.005  | 1.2   | 29.4  | 11.2  | 78    | 0.1   | 29.2  | 12.2  | 595   | 2.71  | 6.0   | 1.8   | 10.0  | 11    | 0.6   | 0.5   | 0.2   | 17    | 0.07  |
| 1645158 | Rock                             | 1.01 | 0.005  | 1.0   | 29.7  | 13.1  | 89    | 0.1   | 30.8  | 10.2  | 456   | 3.18  | 5.7   | <0.5  | 11.4  | 12    | 0.6   | 0.4   | 0.3   | 18    | 0.07  |
| 1645159 | Rock                             | 0.90 | <0.005 | 1.1   | 25.5  | 9.0   | 73    | <0.1  | 23.0  | 8.8   | 306   | 2.98  | 1.6   | 1.4   | 13.1  | 11    | 0.4   | 0.2   | 0.2   | 9     | 0.05  |
| 1645160 | Rock                             | 0.97 | <0.005 | 1.2   | 32.0  | 13.2  | 92    | 0.1   | 36.9  | 14.4  | 615   | 3.21  | 4.6   | 2.4   | 10.8  | 12    | 0.7   | 0.3   | 0.2   | 18    | 0.08  |
| 1645161 | Rock                             | 0.89 | <0.005 | 1.0   | 19.1  | 8.5   | 62    | 0.1   | 25.3  | 10.4  | 449   | 2.30  | 3.7   | <0.5  | 9.0   | 8     | 0.3   | 0.2   | 0.2   | 12    | 0.04  |
| 1645162 | Rock                             | 0.98 | <0.005 | 0.9   | 27.3  | 11.5  | 85    | 0.1   | 36.0  | 12.3  | 569   | 2.81  | 4.3   | <0.5  | 10.5  | 12    | 0.5   | 0.3   | 0.2   | 18    | 0.07  |
| 1645163 | Rock                             | 0.81 | 0.014  | 1.3   | 29.1  | 12.1  | 88    | 0.1   | 31.2  | 9.9   | 421   | 2.82  | 7.9   | 1.2   | 8.5   | 16    | 0.5   | 0.5   | 0.2   | 28    | 0.12  |
| 1645164 | Rock                             | 1.00 | <0.005 | 1.2   | 26.9  | 10.5  | 82    | 0.1   | 28.0  | 9.0   | 410   | 2.82  | 7.3   | 2.5   | 8.0   | 14    | 0.6   | 0.5   | 0.2   | 26    | 0.10  |
| 1645165 | Rock                             | 0.80 | 0.006  | 1.3   | 29.5  | 12.5  | 97    | 0.1   | 33.9  | 11.0  | 375   | 2.98  | 7.9   | 0.5   | 9.3   | 16    | 0.4   | 0.5   | 0.2   | 27    | 0.11  |
| 1645166 | Rock                             | 0.92 | <0.005 | 1.2   | 28.3  | 11.3  | 87    | 0.1   | 31.1  | 10.5  | 373   | 2.57  | 6.8   | 2.7   | 8.8   | 13    | 0.3   | 0.4   | 0.2   | 23    | 0.09  |
| 1645167 | Rock                             | 0.90 | <0.005 | 1.5   | 27.6  | 10.8  | 100   | 0.1   | 28.9  | 8.6   | 362   | 2.76  | 8.2   | 1.9   | 7.6   | 15    | 0.7   | 0.6   | 0.2   | 31    | 0.10  |
| 1645168 | Rock                             | 0.77 | 0.017  | 1.6   | 23.3  | 9.8   | 87    | <0.1  | 24.5  | 7.9   | 321   | 2.62  | 6.3   | 1.7   | 7.3   | 11    | 0.7   | 0.5   | 0.1   | 26    | 0.08  |
| 1645169 | Rock                             | 0.74 | 0.007  | 1.4   | 29.0  | 12.8  | 91    | 0.1   | 31.3  | 9.7   | 374   | 2.64  | 7.3   | 1.7   | 8.5   | 14    | 0.6   | 0.6   | 0.2   | 26    | 0.11  |
| 1645170 | Rock                             | 0.90 | 0.005  | 1.4   | 32.2  | 11.2  | 94    | 0.1   | 32.5  | 10.1  | 355   | 2.74  | 7.3   | 1.4   | 8.0   | 18    | 0.7   | 0.6   | 0.2   | 29    | 0.15  |
| 1645171 | Rock                             | 1.03 | <0.005 | 0.9   | 23.3  | 14.7  | 63    | <0.1  | 26.8  | 10.6  | 280   | 2.47  | 3.1   | <0.5  | 13.1  | 11    | 0.2   | 0.2   | 0.2   | 9     | 0.06  |



**BUREAU** MINERAL LABORATORIES  
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[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** **Tectonic Metals Inc.**  
595 Burrard St.  
Suite 2600  
Vancouver British Columbia V7X 1L7 Canada

**Project:** MCQ  
**Report Date:** August 03, 2018

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**Part:** 2 of 2

# CERTIFICATE OF ANALYSIS

WHI18000288.1

|         | Method | Analyte | Unit | MDL | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200  | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |      |      |      |
|---------|--------|---------|------|-----|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
|         |        |         |      |     | P     | La    | Cr    | Mg    | Ba    | Ti     | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga   | Se   | Te   |
|         |        |         |      |     | %     | ppm   | ppm   | %     | ppm   | %      | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm  | ppm  | ppm  |
|         |        |         |      |     | 0.001 | 1     | 1     | 0.01  | 1     | 0.001  | 20    | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.1   | 0.05 | 1    | 0.5  |
| 1645142 | Rock   |         |      |     | 0.025 | 33    | 12    | 0.31  | 46    | 0.001  | <20   | 0.94  | 0.014 | 0.15  | <0.1  | 0.02  | 1.9   | <0.1  | <0.05 | 3    | <0.5 | <0.2 |
| 1645143 | Rock   |         |      |     | 0.030 | 34    | 9     | 0.09  | 55    | 0.001  | <20   | 0.60  | 0.023 | 0.23  | <0.1  | 0.02  | 1.9   | <0.1  | <0.05 | 2    | <0.5 | <0.2 |
| 1645144 | Rock   |         |      |     | 0.034 | 42    | 10    | 0.29  | 62    | 0.001  | <20   | 0.83  | 0.023 | 0.24  | <0.1  | 0.02  | 2.0   | <0.1  | <0.05 | 2    | <0.5 | <0.2 |
| 1645145 | Rock   |         |      |     | 0.022 | 31    | 10    | 0.05  | 91    | 0.001  | <20   | 0.60  | 0.025 | 0.20  | <0.1  | 0.05  | 2.0   | <0.1  | <0.05 | 1    | <0.5 | <0.2 |
| 1645146 | Rock   |         |      |     | 0.025 | 34    | 7     | 0.04  | 45    | <0.001 | <20   | 0.44  | 0.018 | 0.19  | <0.1  | 0.10  | 1.9   | <0.1  | <0.05 | 1    | <0.5 | <0.2 |
| 1645147 | Rock   |         |      |     | 0.034 | 17    | 19    | 0.31  | 64    | 0.016  | <20   | 0.91  | 0.014 | 0.10  | <0.1  | 0.02  | 2.1   | <0.1  | <0.05 | 2    | <0.5 | <0.2 |
| 1645148 | Rock   |         |      |     | 0.035 | 22    | 21    | 0.37  | 128   | 0.016  | <20   | 0.97  | 0.016 | 0.13  | <0.1  | 0.03  | 2.6   | <0.1  | <0.05 | 3    | <0.5 | <0.2 |
| 1645149 | Rock   |         |      |     | 0.035 | 25    | 20    | 0.43  | 148   | 0.012  | <20   | 1.15  | 0.014 | 0.16  | <0.1  | 0.03  | 2.3   | <0.1  | <0.05 | 3    | <0.5 | <0.2 |
| 1645150 | Rock   |         |      |     | 0.036 | 28    | 21    | 0.38  | 308   | 0.008  | <20   | 1.04  | 0.012 | 0.16  | <0.1  | 0.03  | 2.4   | <0.1  | <0.05 | 3    | <0.5 | <0.2 |
| 1645151 | Rock   |         |      |     | 0.005 | 1     | <1    | 0.58  | 9     | <0.001 | <20   | 0.02  | 0.003 | <0.01 | <0.1  | 0.01  | 0.2   | <0.1  | <0.05 | <1   | <0.5 | <0.2 |
| 1645152 | Rock   |         |      |     | 0.033 | 22    | 22    | 0.39  | 208   | 0.015  | <20   | 1.00  | 0.014 | 0.13  | <0.1  | 0.03  | 2.7   | <0.1  | <0.05 | 3    | <0.5 | <0.2 |
| 1645153 | Rock   |         |      |     | 0.026 | 22    | 12    | 0.19  | 96    | 0.007  | <20   | 0.82  | 0.014 | 0.12  | <0.1  | 0.03  | 1.5   | <0.1  | <0.05 | 2    | <0.5 | <0.2 |
| 1645154 | Rock   |         |      |     | 0.043 | 28    | 21    | 0.41  | 148   | 0.016  | <20   | 1.17  | 0.015 | 0.17  | <0.1  | 0.04  | 2.7   | <0.1  | <0.05 | 3    | <0.5 | <0.2 |
| 1645155 | Rock   |         |      |     | 0.049 | 19    | 18    | 0.31  | 152   | 0.022  | <20   | 0.89  | 0.013 | 0.12  | <0.1  | 0.03  | 2.8   | <0.1  | <0.05 | 2    | <0.5 | <0.2 |
| 1645156 | Rock   |         |      |     | 0.044 | 23    | 23    | 0.40  | 123   | 0.021  | <20   | 1.20  | 0.016 | 0.17  | <0.1  | 0.04  | 3.0   | <0.1  | <0.05 | 3    | <0.5 | <0.2 |
| 1645157 | Rock   |         |      |     | 0.040 | 28    | 18    | 0.36  | 300   | 0.011  | <20   | 1.04  | 0.014 | 0.15  | <0.1  | 0.05  | 2.5   | <0.1  | <0.05 | 3    | <0.5 | <0.2 |
| 1645158 | Rock   |         |      |     | 0.036 | 29    | 19    | 0.50  | 382   | 0.008  | <20   | 1.33  | 0.015 | 0.18  | <0.1  | 0.05  | 2.3   | <0.1  | <0.05 | 4    | <0.5 | <0.2 |
| 1645159 | Rock   |         |      |     | 0.026 | 32    | 14    | 0.46  | 261   | 0.003  | <20   | 1.22  | 0.015 | 0.18  | <0.1  | <0.01 | 1.5   | <0.1  | <0.05 | 3    | <0.5 | <0.2 |
| 1645160 | Rock   |         |      |     | 0.037 | 27    | 20    | 0.43  | 398   | 0.009  | <20   | 1.22  | 0.014 | 0.17  | <0.1  | 0.04  | 2.4   | <0.1  | <0.05 | 3    | <0.5 | <0.2 |
| 1645161 | Rock   |         |      |     | 0.028 | 19    | 14    | 0.28  | 155   | 0.008  | <20   | 0.87  | 0.015 | 0.13  | <0.1  | 0.03  | 1.7   | 0.1   | <0.05 | 2    | <0.5 | <0.2 |
| 1645162 | Rock   |         |      |     | 0.036 | 27    | 20    | 0.47  | 417   | 0.011  | <20   | 1.24  | 0.016 | 0.17  | <0.1  | 0.04  | 2.4   | <0.1  | <0.05 | 3    | <0.5 | <0.2 |
| 1645163 | Rock   |         |      |     | 0.054 | 23    | 25    | 0.45  | 467   | 0.020  | <20   | 1.18  | 0.014 | 0.16  | 0.1   | 0.03  | 3.0   | <0.1  | <0.05 | 3    | <0.5 | <0.2 |
| 1645164 | Rock   |         |      |     | 0.047 | 22    | 23    | 0.45  | 399   | 0.019  | <20   | 1.21  | 0.017 | 0.16  | 0.1   | 0.03  | 2.9   | <0.1  | <0.05 | 3    | <0.5 | <0.2 |
| 1645165 | Rock   |         |      |     | 0.049 | 25    | 27    | 0.46  | 397   | 0.015  | <20   | 1.28  | 0.017 | 0.19  | <0.1  | 0.05  | 2.8   | <0.1  | <0.05 | 4    | <0.5 | <0.2 |
| 1645166 | Rock   |         |      |     | 0.048 | 24    | 21    | 0.38  | 284   | 0.016  | <20   | 1.09  | 0.014 | 0.15  | <0.1  | 0.05  | 2.7   | <0.1  | <0.05 | 3    | <0.5 | <0.2 |
| 1645167 | Rock   |         |      |     | 0.049 | 20    | 23    | 0.44  | 297   | 0.021  | <20   | 1.21  | 0.017 | 0.16  | <0.1  | 0.04  | 3.1   | <0.1  | <0.05 | 3    | <0.5 | <0.2 |
| 1645168 | Rock   |         |      |     | 0.038 | 19    | 20    | 0.45  | 213   | 0.015  | <20   | 1.14  | 0.016 | 0.13  | <0.1  | 0.03  | 2.5   | <0.1  | <0.05 | 3    | <0.5 | <0.2 |
| 1645169 | Rock   |         |      |     | 0.049 | 22    | 22    | 0.42  | 384   | 0.019  | <20   | 1.16  | 0.014 | 0.16  | <0.1  | 0.03  | 3.0   | 0.1   | <0.05 | 3    | <0.5 | <0.2 |
| 1645170 | Rock   |         |      |     | 0.053 | 21    | 25    | 0.46  | 387   | 0.024  | <20   | 1.16  | 0.015 | 0.15  | <0.1  | 0.03  | 3.2   | <0.1  | <0.05 | 3    | <0.5 | <0.2 |
| 1645171 | Rock   |         |      |     | 0.030 | 33    | 13    | 0.34  | 202   | 0.003  | <20   | 1.00  | 0.015 | 0.21  | <0.1  | 0.02  | 1.7   | <0.1  | <0.05 | 3    | <0.5 | <0.2 |



**BUREAU** MINERAL LABORATORIES  
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[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** **Tectonic Metals Inc.**  
595 Burrard St.  
Suite 2600  
Vancouver British Columbia V7X 1L7 Canada

**Project:** MCQ  
**Report Date:** August 03, 2018

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**Part:** 1 of 2

# CERTIFICATE OF ANALYSIS

WHI18000288.1

|         | Method<br>Analyte<br>Unit<br>MDL | WGHT | FA430  | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |
|---------|----------------------------------|------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|         |                                  | Wgt  | Au     | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    |
|         |                                  | kg   | ppm    | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     |
|         |                                  | 0.01 | 0.005  | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  |
| 1645172 | Rock                             | 0.88 | <0.005 | 0.7   | 19.8  | 13.9  | 63    | <0.1  | 24.7  | 11.4  | 280   | 2.47  | 1.9   | 1.3   | 10.8  | 9     | 0.2   | 0.1   | 0.2   | 9     | 0.05  |
| 1645173 | Rock                             | 0.94 | <0.005 | 0.8   | 22.3  | 13.8  | 62    | <0.1  | 26.8  | 10.1  | 298   | 2.36  | 2.9   | 2.6   | 11.7  | 11    | 0.2   | 0.1   | 0.2   | 10    | 0.07  |
| 1645174 | Rock                             | 0.96 | <0.005 | 0.9   | 23.4  | 12.1  | 64    | <0.1  | 24.7  | 9.1   | 286   | 2.71  | 2.6   | 1.0   | 11.4  | 12    | 0.3   | 0.3   | 0.2   | 14    | 0.09  |
| 1645175 | Rock                             | 0.94 | <0.005 | 0.9   | 24.7  | 11.7  | 74    | <0.1  | 27.5  | 8.8   | 327   | 2.70  | 3.7   | 1.5   | 10.4  | 13    | 0.3   | 0.3   | 0.2   | 19    | 0.10  |
| 1645176 | Rock                             | 0.45 | <0.005 | <0.1  | 0.2   | 0.5   | <1    | <0.1  | <0.1  | 0.3   | 78    | 0.07  | <0.5  | 1.5   | <0.1  | 66    | <0.1  | <0.1  | <0.1  | <1    | 32.35 |
| 1645177 | Rock                             | 1.01 | <0.005 | 0.9   | 26.8  | 12.1  | 81    | <0.1  | 25.5  | 10.3  | 277   | 2.79  | 4.0   | 2.4   | 12.4  | 15    | 0.4   | 0.3   | 0.2   | 18    | 0.11  |
| 1645178 | Rock                             | 0.97 | 0.005  | 1.1   | 31.4  | 12.7  | 83    | 0.1   | 30.0  | 10.5  | 333   | 2.91  | 5.6   | 2.3   | 11.1  | 17    | 0.5   | 0.4   | 0.2   | 24    | 0.15  |
| 1645179 | Rock                             | 0.93 | 0.091  | 1.0   | 27.6  | 13.4  | 89    | 0.1   | 28.6  | 9.7   | 343   | 2.74  | 6.4   | 0.8   | 8.9   | 15    | 0.5   | 0.4   | 0.2   | 28    | 0.13  |
| 1645180 | Rock                             | 0.92 | <0.005 | 1.1   | 26.6  | 12.8  | 83    | <0.1  | 27.4  | 9.2   | 311   | 2.79  | 4.7   | 5.2   | 9.5   | 15    | 0.5   | 0.4   | 0.3   | 22    | 0.10  |
| 1645181 | Rock                             | 1.03 | <0.005 | 1.1   | 29.7  | 13.1  | 83    | <0.1  | 27.0  | 10.8  | 277   | 2.93  | 4.1   | 5.1   | 12.8  | 15    | 0.6   | 0.3   | 0.3   | 19    | 0.10  |
| 1645182 | Rock                             | 0.97 | <0.005 | 1.1   | 30.2  | 12.9  | 74    | <0.1  | 32.7  | 11.0  | 439   | 2.96  | 6.0   | 3.2   | 10.7  | 18    | 0.3   | 0.4   | 0.2   | 24    | 0.14  |
| 1645183 | Rock                             | 1.33 | <0.005 | 1.1   | 26.9  | 11.7  | 83    | <0.1  | 31.8  | 10.1  | 381   | 2.72  | 7.2   | 2.4   | 8.2   | 15    | 0.7   | 0.6   | 0.2   | 25    | 0.12  |
| 1645184 | Rock                             | 1.05 | <0.005 | 0.8   | 26.6  | 13.5  | 75    | <0.1  | 26.5  | 8.6   | 289   | 2.73  | 4.2   | 2.1   | 12.4  | 15    | 0.3   | 0.3   | 0.2   | 17    | 0.09  |
| 1645185 | Rock                             | 0.91 | 0.006  | 0.8   | 19.1  | 12.5  | 58    | <0.1  | 19.2  | 6.6   | 284   | 2.12  | 2.8   | 2.3   | 9.5   | 11    | 0.3   | 0.3   | 0.2   | 13    | 0.07  |
| 1645186 | Rock                             | 0.92 | <0.005 | 0.8   | 18.5  | 12.1  | 56    | <0.1  | 18.6  | 6.9   | 346   | 2.24  | 3.0   | 1.3   | 9.2   | 12    | 0.3   | 0.3   | 0.3   | 14    | 0.09  |
| 1645187 | Rock                             | 1.01 | <0.005 | 0.5   | 44.9  | 19.0  | 85    | <0.1  | 21.6  | 8.4   | 169   | 3.31  | 2.5   | <0.5  | 23.4  | 17    | 0.4   | 0.1   | 0.5   | 10    | 0.06  |
| 1645188 | Rock                             | 1.03 | <0.005 | 0.8   | 33.2  | 18.0  | 79    | <0.1  | 12.1  | 6.9   | 197   | 3.51  | <0.5  | 1.9   | 19.1  | 17    | 0.2   | 0.1   | 0.4   | 10    | 0.06  |
| 1645189 | Rock                             | 0.99 | 0.006  | 0.8   | 47.5  | 20.5  | 111   | <0.1  | 27.2  | 10.1  | 186   | 3.93  | <0.5  | 2.5   | 20.7  | 16    | 0.2   | 0.4   | 0.4   | 11    | 0.08  |
| 1645190 | Rock                             | 1.07 | <0.005 | 0.7   | 31.6  | 18.2  | 73    | <0.1  | 18.2  | 7.5   | 186   | 3.30  | 1.2   | 1.1   | 17.2  | 23    | <0.1  | 0.2   | 0.3   | 11    | 0.08  |
| 1645191 | Rock                             | 0.98 | 0.005  | 0.7   | 34.5  | 23.3  | 70    | 0.1   | 15.5  | 8.2   | 202   | 3.16  | 1.7   | 1.8   | 22.3  | 27    | <0.1  | 0.1   | 0.5   | 11    | 0.09  |
| 1645192 | Rock                             | 0.77 | <0.005 | 0.6   | 14.0  | 9.2   | 39    | <0.1  | 20.0  | 6.0   | 358   | 1.90  | 1.2   | 0.9   | 9.9   | 8     | <0.1  | <0.1  | 0.1   | 6     | 0.05  |
| 1645193 | Rock                             | 0.96 | <0.005 | 0.9   | 27.0  | 10.6  | 57    | <0.1  | 22.7  | 5.3   | 199   | 2.84  | 1.0   | 0.9   | 14.9  | 12    | <0.1  | 0.3   | 0.2   | 10    | 0.06  |
| 1645194 | Rock                             | 0.99 | <0.005 | 1.0   | 27.0  | 11.0  | 55    | <0.1  | 26.7  | 9.0   | 282   | 2.52  | 4.0   | 0.7   | 10.5  | 12    | 0.2   | 0.2   | 0.2   | 15    | 0.07  |
| 1645195 | Rock                             | 1.03 | <0.005 | 0.7   | 30.1  | 16.4  | 66    | <0.1  | 24.9  | 10.8  | 255   | 3.03  | 3.1   | <0.5  | 14.9  | 14    | 0.2   | 0.2   | 0.2   | 18    | 0.08  |
| 1645196 | Rock                             | 1.05 | <0.005 | 2.1   | 32.7  | 37.0  | 74    | 0.1   | 16.7  | 3.4   | 184   | 3.77  | 1.2   | 1.8   | 19.3  | 27    | <0.1  | 0.3   | 0.7   | 11    | 0.07  |
| 1645197 | Rock                             | 0.95 | 0.008  | 4.8   | 47.9  | 68.3  | 78    | 0.2   | 40.8  | 11.6  | 324   | 4.28  | 3.1   | 1.8   | 15.4  | 15    | 0.1   | 0.6   | 1.0   | 11    | 0.06  |
| 1645198 | Rock                             | 1.01 | <0.005 | 0.6   | 21.3  | 6.8   | 73    | <0.1  | 23.5  | 10.3  | 297   | 3.55  | 0.8   | <0.5  | 14.6  | 15    | <0.1  | <0.1  | 0.2   | 13    | 0.08  |
| 1645199 | Rock                             | 0.75 | <0.005 | 2.7   | 16.6  | 18.5  | 47    | <0.1  | 38.4  | 13.7  | 546   | 2.31  | 2.2   | <0.5  | 6.9   | 7     | 0.1   | 0.1   | <0.1  | 42    | 0.09  |
| 1645200 | Rock                             | 0.92 | <0.005 | 0.8   | 20.5  | 12.8  | 49    | <0.1  | 34.5  | 11.8  | 249   | 2.45  | 1.0   | <0.5  | 14.4  | 11    | <0.1  | <0.1  | 0.1   | 7     | 0.07  |
| 1645201 | Rock                             | 0.38 | <0.005 | <0.1  | 0.5   | 0.4   | <1    | <0.1  | 0.4   | 0.4   | 81    | 0.10  | 0.8   | 1.0   | <0.1  | 68    | <0.1  | <0.1  | <0.1  | <1    | 31.65 |



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[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** **Tectonic Metals Inc.**  
595 Burrard St.  
Suite 2600  
Vancouver British Columbia V7X 1L7 Canada

**Project:** MCQ  
**Report Date:** August 03, 2018

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**Part:** 2 of 2

# CERTIFICATE OF ANALYSIS

WHI18000288.1

|         | Method<br>Analyte<br>Unit<br>MDL | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |      |
|---------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|         |                                  | P     | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |      |
|         |                                  | %     | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |      |
|         |                                  | 0.001 | 1     | 1     | 0.01  | 1     | 0.001 | 20    | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   | 0.2  |
| 1645172 | Rock                             | 0.027 | 25    | 13    | 0.47  | 139   | 0.004 | <20   | 1.12  | 0.016 | 0.17  | <0.1  | 0.02  | 1.6   | <0.1  | <0.05 | 3     | <0.5  | <0.2 |
| 1645173 | Rock                             | 0.036 | 28    | 14    | 0.37  | 193   | 0.005 | <20   | 0.96  | 0.014 | 0.19  | <0.1  | 0.02  | 1.6   | <0.1  | <0.05 | 3     | <0.5  | <0.2 |
| 1645174 | Rock                             | 0.034 | 26    | 19    | 0.50  | 228   | 0.009 | <20   | 1.21  | 0.014 | 0.18  | <0.1  | 0.02  | 2.1   | <0.1  | <0.05 | 3     | <0.5  | <0.2 |
| 1645175 | Rock                             | 0.040 | 25    | 21    | 0.49  | 304   | 0.010 | <20   | 1.22  | 0.016 | 0.18  | <0.1  | 0.01  | 2.4   | <0.1  | <0.05 | 3     | <0.5  | <0.2 |
| 1645176 | Rock                             | 0.005 | <1    | <1    | 0.51  | 12    | 0.001 | <20   | 0.02  | 0.002 | <0.01 | 0.3   | <0.01 | 0.2   | <0.1  | <0.05 | <1    | <0.5  | <0.2 |
| 1645177 | Rock                             | 0.038 | 33    | 18    | 0.50  | 342   | 0.008 | <20   | 1.29  | 0.016 | 0.21  | <0.1  | 0.02  | 2.3   | <0.1  | <0.05 | 3     | <0.5  | <0.2 |
| 1645178 | Rock                             | 0.049 | 29    | 23    | 0.52  | 374   | 0.013 | <20   | 1.33  | 0.014 | 0.19  | <0.1  | 0.03  | 2.8   | <0.1  | <0.05 | 4     | <0.5  | <0.2 |
| 1645179 | Rock                             | 0.049 | 23    | 23    | 0.54  | 305   | 0.020 | <20   | 1.27  | 0.014 | 0.15  | <0.1  | 0.03  | 2.9   | <0.1  | <0.05 | 4     | <0.5  | <0.2 |
| 1645180 | Rock                             | 0.038 | 23    | 21    | 0.51  | 261   | 0.013 | <20   | 1.23  | 0.016 | 0.17  | <0.1  | 0.02  | 2.3   | <0.1  | <0.05 | 3     | <0.5  | <0.2 |
| 1645181 | Rock                             | 0.039 | 32    | 20    | 0.53  | 336   | 0.008 | <20   | 1.30  | 0.013 | 0.19  | <0.1  | 0.02  | 2.3   | <0.1  | <0.05 | 4     | <0.5  | <0.2 |
| 1645182 | Rock                             | 0.045 | 28    | 24    | 0.48  | 340   | 0.016 | <20   | 1.30  | 0.016 | 0.20  | <0.1  | 0.02  | 2.7   | <0.1  | <0.05 | 4     | <0.5  | <0.2 |
| 1645183 | Rock                             | 0.045 | 21    | 23    | 0.45  | 351   | 0.020 | <20   | 1.16  | 0.013 | 0.14  | <0.1  | 0.02  | 2.7   | <0.1  | <0.05 | 3     | <0.5  | <0.2 |
| 1645184 | Rock                             | 0.043 | 30    | 19    | 0.48  | 319   | 0.009 | <20   | 1.16  | 0.014 | 0.19  | <0.1  | 0.02  | 2.3   | <0.1  | <0.05 | 3     | <0.5  | <0.2 |
| 1645185 | Rock                             | 0.035 | 21    | 15    | 0.38  | 257   | 0.007 | <20   | 0.91  | 0.016 | 0.14  | <0.1  | <0.01 | 1.7   | <0.1  | <0.05 | 3     | <0.5  | <0.2 |
| 1645186 | Rock                             | 0.035 | 22    | 17    | 0.42  | 248   | 0.010 | <20   | 0.96  | 0.020 | 0.15  | <0.1  | 0.02  | 1.9   | <0.1  | <0.05 | 3     | <0.5  | <0.2 |
| 1645187 | Rock                             | 0.048 | 63    | 16    | 0.60  | 239   | 0.003 | <20   | 1.37  | 0.010 | 0.26  | <0.1  | 0.01  | 1.7   | <0.1  | <0.05 | 3     | <0.5  | <0.2 |
| 1645188 | Rock                             | 0.048 | 48    | 15    | 0.66  | 176   | 0.003 | <20   | 1.39  | 0.009 | 0.20  | <0.1  | <0.01 | 1.6   | 0.1   | <0.05 | 4     | <0.5  | <0.2 |
| 1645189 | Rock                             | 0.050 | 50    | 17    | 0.66  | 203   | 0.003 | <20   | 1.49  | 0.010 | 0.23  | <0.1  | 0.01  | 1.9   | <0.1  | <0.05 | 4     | <0.5  | <0.2 |
| 1645190 | Rock                             | 0.042 | 48    | 18    | 0.63  | 186   | 0.003 | <20   | 1.49  | 0.013 | 0.24  | <0.1  | 0.01  | 1.7   | <0.1  | <0.05 | 4     | <0.5  | <0.2 |
| 1645191 | Rock                             | 0.048 | 58    | 16    | 0.59  | 164   | 0.003 | <20   | 1.43  | 0.012 | 0.26  | <0.1  | <0.01 | 1.8   | <0.1  | <0.05 | 4     | <0.5  | <0.2 |
| 1645192 | Rock                             | 0.023 | 19    | 10    | 0.35  | 91    | 0.002 | <20   | 0.84  | 0.017 | 0.11  | <0.1  | 0.02  | 1.3   | <0.1  | <0.05 | 2     | <0.5  | <0.2 |
| 1645193 | Rock                             | 0.033 | 32    | 14    | 0.49  | 243   | 0.002 | <20   | 1.20  | 0.012 | 0.18  | <0.1  | 0.01  | 1.9   | <0.1  | <0.05 | 3     | <0.5  | <0.2 |
| 1645194 | Rock                             | 0.034 | 21    | 20    | 0.41  | 236   | 0.007 | <20   | 1.01  | 0.014 | 0.14  | <0.1  | 0.01  | 2.3   | <0.1  | <0.05 | 3     | <0.5  | <0.2 |
| 1645195 | Rock                             | 0.040 | 32    | 28    | 0.71  | 184   | 0.005 | <20   | 1.40  | 0.012 | 0.18  | <0.1  | 0.01  | 2.4   | <0.1  | <0.05 | 4     | <0.5  | <0.2 |
| 1645196 | Rock                             | 0.046 | 44    | 17    | 0.65  | 182   | 0.002 | <20   | 1.31  | 0.011 | 0.21  | <0.1  | 0.01  | 1.7   | 0.1   | <0.05 | 4     | <0.5  | <0.2 |
| 1645197 | Rock                             | 0.053 | 36    | 15    | 0.47  | 148   | 0.002 | <20   | 1.09  | 0.010 | 0.21  | <0.1  | 0.03  | 2.0   | 0.1   | <0.05 | 3     | <0.5  | <0.2 |
| 1645198 | Rock                             | 0.034 | 35    | 19    | 0.80  | 165   | 0.004 | <20   | 1.72  | 0.014 | 0.19  | <0.1  | <0.01 | 1.7   | <0.1  | <0.05 | 5     | <0.5  | <0.2 |
| 1645199 | Rock                             | 0.040 | 16    | 85    | 0.95  | 54    | 0.009 | <20   | 1.25  | 0.033 | 0.01  | <0.1  | <0.01 | 5.8   | <0.1  | <0.05 | 4     | <0.5  | <0.2 |
| 1645200 | Rock                             | 0.033 | 35    | 13    | 0.37  | 111   | 0.002 | <20   | 1.05  | 0.010 | 0.17  | <0.1  | <0.01 | 1.6   | <0.1  | <0.05 | 3     | <0.5  | <0.2 |
| 1645201 | Rock                             | 0.005 | 1     | <1    | 0.58  | 12    | 0.001 | <20   | 0.03  | 0.002 | <0.01 | <0.1  | <0.01 | 0.3   | <0.1  | <0.05 | <1    | <0.5  | <0.2 |



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[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** **Tectonic Metals Inc.**  
595 Burrard St.  
Suite 2600  
Vancouver British Columbia V7X 1L7 Canada

**Project:** MCQ  
**Report Date:** August 03, 2018

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**Part:** 1 of 2

# CERTIFICATE OF ANALYSIS

WHI18000288.1

|         | Method<br>Analyte<br>Unit<br>MDL | WGHT | FA430  | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |
|---------|----------------------------------|------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|         |                                  | Wgt  | Au     | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    |
|         |                                  | kg   | ppm    | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     |
|         |                                  | 0.01 | 0.005  | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  |
| 1645202 | Rock                             | 0.93 | <0.005 | 1.2   | 41.2  | 17.7  | 80    | <0.1  | 35.6  | 19.0  | 508   | 3.68  | 4.3   | <0.5  | 17.8  | 16    | 0.3   | 0.2   | 0.3   | 12    | 0.11  |
| 1645203 | Rock                             | 0.96 | <0.005 | 2.8   | 62.5  | 15.7  | 82    | <0.1  | 24.8  | 7.9   | 228   | 4.29  | 10.8  | 0.6   | 15.1  | 15    | <0.1  | 0.3   | 0.4   | 14    | 0.06  |
| 1645204 | Rock                             | 1.00 | 0.008  | 3.9   | 52.9  | 15.2  | 95    | <0.1  | 30.1  | 9.6   | 253   | 4.11  | 17.3  | 2.4   | 20.6  | 18    | <0.1  | 0.3   | 0.4   | 19    | 0.08  |
| 1645205 | Rock                             | 0.92 | <0.005 | 0.8   | 28.4  | 9.2   | 92    | <0.1  | 18.2  | 5.7   | 278   | 4.27  | 1.6   | 2.0   | 14.7  | 12    | <0.1  | <0.1  | 0.3   | 14    | 0.07  |
| 1645206 | Rock                             | 0.90 | <0.005 | 0.7   | 28.3  | 28.8  | 86    | <0.1  | 18.4  | 7.1   | 218   | 3.78  | 0.6   | <0.5  | 17.5  | 20    | 0.1   | <0.1  | 0.5   | 13    | 0.07  |
| 1645207 | Rock                             | 1.01 | <0.005 | 0.6   | 39.5  | 12.0  | 68    | <0.1  | 13.8  | 6.3   | 164   | 3.43  | 2.8   | <0.5  | 20.1  | 35    | <0.1  | <0.1  | 0.4   | 12    | 0.09  |
| 1645208 | Rock                             | 0.85 | <0.005 | 0.6   | 45.4  | 12.0  | 86    | <0.1  | 101.1 | 26.5  | 622   | 5.00  | 7.3   | <0.5  | 10.4  | 15    | 0.1   | 0.1   | 0.2   | 99    | 0.20  |
| 1645209 | Rock                             | 0.95 | 0.007  | 2.8   | 36.0  | 57.3  | 62    | 0.1   | 23.5  | 5.1   | 224   | 3.74  | 1.7   | 2.7   | 16.8  | 25    | <0.1  | 0.2   | 0.7   | 11    | 0.04  |
| 1645210 | Rock                             | 1.02 | <0.005 | 0.6   | 38.7  | 18.8  | 82    | <0.1  | 30.4  | 12.2  | 248   | 3.27  | 2.6   | <0.5  | 18.3  | 15    | <0.1  | 0.1   | 0.3   | 11    | 0.08  |
| 1645211 | Rock                             | 0.92 | <0.005 | 0.5   | 33.2  | 12.9  | 77    | <0.1  | 12.4  | 5.2   | 184   | 3.53  | 1.9   | <0.5  | 20.1  | 15    | <0.1  | <0.1  | 0.3   | 13    | 0.10  |
| 1645212 | Rock                             | 0.72 | <0.005 | 0.8   | 38.4  | 13.9  | 73    | <0.1  | 29.7  | 12.3  | 327   | 3.51  | 3.2   | <0.5  | 20.9  | 21    | 0.1   | 0.2   | 0.3   | 12    | 0.08  |
| 1645213 | Rock                             | 1.03 | 0.006  | 0.6   | 23.6  | 15.6  | 66    | <0.1  | 8.3   | 3.4   | 201   | 3.24  | 1.1   | <0.5  | 22.0  | 32    | <0.1  | 0.1   | 0.3   | 10    | 0.08  |
| 1645214 | Rock                             | 0.96 | <0.005 | 0.6   | 35.3  | 15.0  | 74    | <0.1  | 40.7  | 16.1  | 290   | 3.24  | 4.3   | <0.5  | 19.5  | 13    | <0.1  | 0.1   | 0.3   | 8     | 0.09  |
| 1645215 | Rock                             | 0.82 | 0.018  | 0.8   | 25.2  | 9.9   | 49    | <0.1  | 29.0  | 8.8   | 342   | 2.03  | 8.0   | 1.5   | 7.6   | 12    | 0.2   | 0.5   | 0.2   | 16    | 0.09  |
| 1645216 | Rock                             | 0.90 | <0.005 | 0.8   | 33.8  | 11.4  | 67    | <0.1  | 45.1  | 12.7  | 414   | 2.68  | 8.1   | 1.3   | 9.8   | 14    | 0.2   | 0.5   | 0.2   | 23    | 0.11  |
| 1645217 | Rock                             | 0.91 | <0.005 | 0.9   | 37.8  | 11.4  | 75    | <0.1  | 51.6  | 13.1  | 462   | 3.08  | 6.1   | 2.1   | 12.0  | 15    | 0.1   | 0.4   | 0.3   | 22    | 0.10  |
| 1645218 | Rock                             | 0.93 | <0.005 | 1.1   | 26.3  | 10.7  | 70    | <0.1  | 30.4  | 9.5   | 354   | 2.52  | 5.6   | 2.0   | 9.1   | 14    | 0.3   | 0.3   | 0.2   | 19    | 0.10  |
| 1645219 | Rock                             | 0.89 | 0.012  | 0.8   | 26.6  | 8.6   | 64    | <0.1  | 30.5  | 9.2   | 329   | 2.44  | 6.8   | 2.2   | 8.3   | 14    | 0.2   | 0.4   | 0.1   | 19    | 0.11  |
| 1645220 | Rock                             | 0.96 | <0.005 | 0.8   | 31.5  | 12.4  | 65    | <0.1  | 24.7  | 8.4   | 279   | 3.00  | 2.9   | 2.2   | 11.7  | 13    | <0.1  | 0.3   | 0.2   | 14    | 0.07  |
| 1645221 | Rock                             | 0.99 | 0.006  | 1.3   | 44.8  | 24.8  | 71    | <0.1  | 25.0  | 9.1   | 224   | 3.19  | 1.2   | 0.7   | 15.7  | 14    | 0.1   | 0.2   | 0.5   | 13    | 0.06  |
| 1645222 | Rock                             | 0.95 | <0.005 | 0.7   | 21.1  | 15.6  | 65    | <0.1  | 15.0  | 5.5   | 205   | 2.44  | 0.8   | 1.1   | 9.5   | 10    | <0.1  | 0.1   | 0.4   | 9     | 0.05  |
| 1645223 | Rock                             | 0.93 | <0.005 | 0.9   | 35.3  | 18.8  | 88    | <0.1  | 19.3  | 8.4   | 271   | 3.66  | 1.0   | 1.5   | 16.2  | 18    | 0.3   | 0.2   | 0.5   | 16    | 0.08  |
| 1645224 | Rock                             | 1.03 | <0.005 | 2.5   | 33.0  | 10.6  | 76    | <0.1  | 23.2  | 10.5  | 256   | 3.25  | 1.5   | <0.5  | 14.7  | 13    | 0.1   | 0.1   | 0.3   | 13    | 0.06  |
| 1645225 | Rock                             | 0.96 | <0.005 | 0.5   | 34.8  | 11.1  | 90    | <0.1  | 34.5  | 11.7  | 243   | 3.79  | 3.2   | 1.1   | 16.0  | 10    | <0.1  | 0.1   | 0.2   | 14    | 0.06  |
| 1645226 | Rock                             | 0.51 | <0.005 | <0.1  | 0.3   | 0.5   | <1    | <0.1  | 0.7   | 0.5   | 88    | 0.06  | 0.5   | <0.5  | <0.1  | 83    | <0.1  | <0.1  | <0.1  | <1    | 31.81 |
| 1645227 | Rock                             | 0.94 | <0.005 | 0.5   | 25.6  | 13.5  | 74    | <0.1  | 21.3  | 9.4   | 284   | 3.20  | 1.0   | 2.2   | 16.3  | 13    | 0.1   | <0.1  | 0.3   | 12    | 0.06  |
| 1645228 | Rock                             | 0.96 | <0.005 | 1.1   | 29.2  | 7.1   | 48    | <0.1  | 16.3  | 6.3   | 171   | 2.82  | 1.6   | <0.5  | 13.3  | 11    | <0.1  | <0.1  | 0.1   | 9     | 0.04  |
| 1645229 | Rock                             | 0.96 | <0.005 | 0.7   | 35.6  | 17.7  | 63    | <0.1  | 19.2  | 9.5   | 242   | 3.54  | <0.5  | <0.5  | 16.1  | 15    | 0.2   | <0.1  | 0.4   | 12    | 0.04  |
| 1645230 | Rock                             | 0.92 | <0.005 | 0.6   | 19.7  | 9.7   | 52    | <0.1  | 14.1  | 4.9   | 160   | 2.54  | 1.4   | 0.8   | 12.7  | 11    | <0.1  | <0.1  | 0.1   | 10    | 0.05  |
| 1645231 | Rock                             | 0.99 | 0.005  | 0.6   | 46.0  | 17.5  | 94    | <0.1  | 29.4  | 12.4  | 231   | 4.07  | <0.5  | 2.0   | 18.1  | 15    | <0.1  | 0.1   | 0.4   | 12    | 0.06  |





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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** **Tectonic Metals Inc.**  
595 Burrard St.  
Suite 2600  
Vancouver British Columbia V7X 1L7 Canada

**Project:** MCQ  
**Report Date:** August 03, 2018

**Page:** 5 of 6

**Part:** 2 of 2

# CERTIFICATE OF ANALYSIS

WHI18000288.1

|         | Method | Analyte | AQ200 |       |      |     |       |     |       |       |       |       |       |      |      |       |     |      |      | AQ200 |
|---------|--------|---------|-------|-------|------|-----|-------|-----|-------|-------|-------|-------|-------|------|------|-------|-----|------|------|-------|
|         |        |         | P     | La    | Cr   | Mg  | Ba    | Ti  | B     | Al    | Na    | K     | W     | Hg   | Sc   | Tl    | S   | Ga   | Se   |       |
|         |        |         | %     | ppm   | ppm  | %   | ppm   | %   | ppm   | %     | %     | %     | ppm   | ppm  | ppm  | ppm   | %   | ppm  | ppm  |       |
|         |        |         | MDL   | 0.001 | 1    | 1   | 0.01  | 1   | 0.001 | 20    | 0.01  | 0.001 | 0.01  | 0.1  | 0.01 | 0.1   | 0.1 | 0.05 | 1    |       |
| 1645202 | Rock   | 0.054   | 52    | 17    | 0.64 | 245 | 0.003 | <20 | 1.48  | 0.011 | 0.21  | <0.1  | 0.01  | 2.0  | <0.1 | <0.05 | 4   | <0.5 | <0.2 |       |
| 1645203 | Rock   | 0.051   | 36    | 18    | 0.80 | 220 | 0.002 | <20 | 1.56  | 0.010 | 0.18  | <0.1  | 0.01  | 1.8  | <0.1 | <0.05 | 4   | <0.5 | <0.2 |       |
| 1645204 | Rock   | 0.054   | 57    | 22    | 1.00 | 129 | 0.002 | <20 | 1.64  | 0.008 | 0.19  | <0.1  | 0.01  | 2.4  | <0.1 | <0.05 | 4   | <0.5 | <0.2 |       |
| 1645205 | Rock   | 0.036   | 26    | 21    | 1.16 | 117 | 0.003 | <20 | 1.98  | 0.015 | 0.16  | <0.1  | <0.01 | 2.0  | <0.1 | <0.05 | 5   | <0.5 | <0.2 |       |
| 1645206 | Rock   | 0.040   | 36    | 20    | 0.82 | 185 | 0.003 | <20 | 1.71  | 0.018 | 0.21  | <0.1  | 0.01  | 1.8  | <0.1 | <0.05 | 5   | <0.5 | <0.2 |       |
| 1645207 | Rock   | 0.047   | 45    | 18    | 0.73 | 213 | 0.002 | <20 | 1.56  | 0.015 | 0.22  | <0.1  | 0.02  | 1.5  | <0.1 | <0.05 | 4   | <0.5 | <0.2 |       |
| 1645208 | Rock   | 0.077   | 27    | 208   | 2.57 | 129 | 0.033 | <20 | 3.27  | 0.015 | 0.14  | <0.1  | <0.01 | 12.1 | <0.1 | <0.05 | 10  | <0.5 | <0.2 |       |
| 1645209 | Rock   | 0.043   | 45    | 15    | 0.51 | 145 | 0.002 | <20 | 1.05  | 0.015 | 0.20  | <0.1  | <0.01 | 1.6  | 0.1  | <0.05 | 3   | <0.5 | <0.2 |       |
| 1645210 | Rock   | 0.041   | 49    | 17    | 0.63 | 127 | 0.003 | <20 | 1.46  | 0.010 | 0.22  | <0.1  | <0.01 | 1.9  | <0.1 | <0.05 | 4   | <0.5 | <0.2 |       |
| 1645211 | Rock   | 0.040   | 42    | 20    | 0.79 | 115 | 0.005 | <20 | 1.72  | 0.014 | 0.27  | <0.1  | <0.01 | 2.2  | 0.1  | <0.05 | 5   | <0.5 | <0.2 |       |
| 1645212 | Rock   | 0.047   | 47    | 19    | 0.78 | 161 | 0.003 | <20 | 1.58  | 0.010 | 0.23  | <0.1  | <0.01 | 1.8  | <0.1 | <0.05 | 4   | <0.5 | <0.2 |       |
| 1645213 | Rock   | 0.042   | 49    | 17    | 0.75 | 113 | 0.002 | <20 | 1.45  | 0.019 | 0.25  | <0.1  | 0.01  | 1.5  | 0.1  | 0.06  | 4   | <0.5 | <0.2 |       |
| 1645214 | Rock   | 0.039   | 48    | 10    | 0.30 | 105 | 0.002 | <20 | 0.88  | 0.007 | 0.23  | <0.1  | <0.01 | 1.8  | <0.1 | <0.05 | 2   | <0.5 | <0.2 |       |
| 1645215 | Rock   | 0.036   | 23    | 25    | 0.35 | 230 | 0.018 | <20 | 0.81  | 0.009 | 0.12  | 0.2   | 0.03  | 2.1  | <0.1 | <0.05 | 2   | <0.5 | <0.2 |       |
| 1645216 | Rock   | 0.046   | 29    | 45    | 0.56 | 278 | 0.021 | <20 | 1.14  | 0.009 | 0.13  | 0.2   | 0.04  | 3.2  | <0.1 | <0.05 | 3   | <0.5 | <0.2 |       |
| 1645217 | Rock   | 0.046   | 34    | 46    | 0.65 | 255 | 0.015 | <20 | 1.28  | 0.015 | 0.17  | 0.1   | 0.03  | 3.1  | <0.1 | <0.05 | 3   | <0.5 | <0.2 |       |
| 1645218 | Rock   | 0.042   | 27    | 29    | 0.49 | 223 | 0.017 | <20 | 1.04  | 0.014 | 0.14  | 0.2   | 0.03  | 2.6  | <0.1 | <0.05 | 3   | <0.5 | <0.2 |       |
| 1645219 | Rock   | 0.043   | 25    | 29    | 0.45 | 224 | 0.018 | <20 | 0.97  | 0.012 | 0.14  | 0.1   | 0.02  | 2.6  | <0.1 | <0.05 | 3   | <0.5 | <0.2 |       |
| 1645220 | Rock   | 0.033   | 34    | 23    | 0.57 | 169 | 0.006 | <20 | 1.29  | 0.014 | 0.17  | <0.1  | 0.01  | 2.2  | <0.1 | <0.05 | 3   | <0.5 | <0.2 |       |
| 1645221 | Rock   | 0.039   | 46    | 19    | 0.57 | 226 | 0.004 | <20 | 1.33  | 0.015 | 0.20  | <0.1  | 0.02  | 1.8  | <0.1 | <0.05 | 3   | <0.5 | <0.2 |       |
| 1645222 | Rock   | 0.019   | 21    | 14    | 0.48 | 197 | 0.003 | <20 | 1.18  | 0.009 | 0.13  | <0.1  | <0.01 | 1.6  | <0.1 | <0.05 | 3   | <0.5 | <0.2 |       |
| 1645223 | Rock   | 0.041   | 45    | 20    | 0.73 | 311 | 0.006 | <20 | 1.62  | 0.013 | 0.18  | <0.1  | <0.01 | 2.4  | <0.1 | <0.05 | 4   | <0.5 | <0.2 |       |
| 1645224 | Rock   | 0.033   | 45    | 25    | 0.71 | 300 | 0.004 | <20 | 1.63  | 0.014 | 0.18  | <0.1  | <0.01 | 2.2  | <0.1 | <0.05 | 4   | <0.5 | <0.2 |       |
| 1645225 | Rock   | 0.027   | 46    | 22    | 0.89 | 165 | 0.003 | <20 | 2.00  | 0.011 | 0.16  | <0.1  | <0.01 | 2.1  | <0.1 | <0.05 | 5   | <0.5 | <0.2 |       |
| 1645226 | Rock   | 0.006   | 1     | <1    | 0.39 | 12  | 0.002 | <20 | 0.02  | 0.001 | <0.01 | <0.1  | <0.01 | 0.3  | <0.1 | <0.05 | <1  | <0.5 | <0.2 |       |
| 1645227 | Rock   | 0.030   | 50    | 17    | 0.67 | 279 | 0.004 | <20 | 1.58  | 0.013 | 0.19  | <0.1  | 0.01  | 2.1  | <0.1 | <0.05 | 4   | <0.5 | <0.2 |       |
| 1645228 | Rock   | 0.021   | 32    | 15    | 0.54 | 179 | 0.003 | <20 | 1.24  | 0.015 | 0.16  | <0.1  | <0.01 | 1.7  | <0.1 | <0.05 | 3   | <0.5 | <0.2 |       |
| 1645229 | Rock   | 0.031   | 45    | 20    | 0.78 | 328 | 0.003 | <20 | 1.64  | 0.017 | 0.19  | <0.1  | <0.01 | 2.0  | <0.1 | <0.05 | 4   | <0.5 | <0.2 |       |
| 1645230 | Rock   | 0.023   | 30    | 15    | 0.57 | 140 | 0.003 | <20 | 1.29  | 0.016 | 0.16  | <0.1  | <0.01 | 1.7  | <0.1 | <0.05 | 4   | <0.5 | <0.2 |       |
| 1645231 | Rock   | 0.037   | 59    | 18    | 0.74 | 259 | 0.003 | <20 | 1.68  | 0.012 | 0.19  | <0.1  | <0.01 | 2.0  | <0.1 | <0.05 | 4   | <0.5 | <0.2 |       |



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[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** **Tectonic Metals Inc.**  
595 Burrard St.  
Suite 2600  
Vancouver British Columbia V7X 1L7 Canada

**Project:** MCQ  
**Report Date:** August 03, 2018

**Page:** 6 of 6

**Part:** 1 of 2

# CERTIFICATE OF ANALYSIS

WHI18000288.1

|         | Method  | WGHT | FA430  | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |
|---------|---------|------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|         | Analyte | Wgt  | Au     | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    |
|         | Unit    | kg   | ppm    | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     |
|         | MDL     | 0.01 | 0.005  | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  |
| 1645232 | Rock    | 1.00 | <0.005 | 1.3   | 54.0  | 20.7  | 76    | 0.1   | 21.9  | 9.4   | 248   | 4.04  | <0.5  | 2.2   | 21.5  | 15    | <0.1  | <0.1  | 0.6   | 11    | 0.04  |
| 1645233 | Rock    | 0.96 | <0.005 | 0.6   | 43.7  | 9.8   | 93    | <0.1  | 23.1  | 9.6   | 287   | 3.90  | <0.5  | 1.1   | 18.7  | 16    | 0.2   | 0.1   | 0.3   | 15    | 0.03  |
| 1645234 | Rock    | 0.97 | <0.005 | 1.2   | 43.9  | 16.0  | 91    | <0.1  | 24.9  | 10.7  | 427   | 4.06  | 1.7   | 1.0   | 15.6  | 13    | 0.1   | 0.2   | 0.4   | 16    | 0.02  |
| 1645235 | Rock    | 0.88 | <0.005 | 0.8   | 34.8  | 14.6  | 79    | <0.1  | 22.9  | 11.0  | 302   | 3.77  | 2.1   | 1.2   | 15.1  | 10    | <0.1  | 0.2   | 0.3   | 14    | 0.01  |
| 1645236 | Rock    | 0.93 | <0.005 | 0.5   | 26.0  | 10.5  | 84    | <0.1  | 25.3  | 14.6  | 222   | 3.34  | 2.3   | 0.9   | 13.7  | 9     | 0.2   | <0.1  | 0.1   | 12    | <0.01 |
| 1645237 | Rock    | 0.93 | <0.005 | 1.1   | 59.3  | 22.0  | 91    | <0.1  | 27.5  | 17.1  | 368   | 4.27  | 1.0   | 1.5   | 17.8  | 9     | 0.2   | 0.1   | 0.5   | 12    | <0.01 |
| 1645238 | Rock    | 0.80 | <0.005 | 1.7   | 55.5  | 11.8  | 89    | <0.1  | 19.0  | 9.0   | 203   | 4.11  | 1.0   | 1.8   | 17.2  | 10    | <0.1  | 0.1   | 0.4   | 12    | 0.03  |
| 1645239 | Rock    | 0.79 | <0.005 | 0.5   | 25.7  | 12.0  | 64    | <0.1  | 20.5  | 8.4   | 144   | 2.78  | 1.9   | 0.5   | 15.2  | 9     | <0.1  | 0.1   | 0.3   | 7     | 0.03  |
| 1645240 | Rock    | 0.85 | <0.005 | 0.7   | 35.8  | 33.9  | 43    | 0.2   | 10.9  | 4.4   | 153   | 2.50  | <0.5  | <0.5  | 15.2  | 13    | <0.1  | <0.1  | 0.6   | 8     | 0.02  |
| 1645241 | Rock    | 0.86 | <0.005 | 0.5   | 25.1  | 12.7  | 61    | <0.1  | 30.6  | 15.1  | 363   | 2.57  | 0.9   | 1.3   | 14.7  | 7     | 0.2   | <0.1  | 0.2   | 10    | 0.03  |
| 1645242 | Rock    | 0.98 | <0.005 | 0.9   | 47.1  | 19.5  | 79    | <0.1  | 12.5  | 8.1   | 272   | 3.65  | <0.5  | 1.7   | 15.7  | 8     | 0.1   | <0.1  | 0.4   | 12    | 0.05  |
| 1645243 | Rock    | 0.96 | <0.005 | 0.8   | 42.1  | 4.4   | 51    | <0.1  | 44.4  | 22.0  | 649   | 3.59  | 4.9   | 0.9   | 6.5   | 19    | <0.1  | 0.4   | <0.1  | 70    | 0.24  |
| 1645244 | Rock    | 0.97 | <0.005 | 0.7   | 37.5  | 14.0  | 86    | <0.1  | 33.2  | 22.3  | 321   | 3.91  | 0.6   | <0.5  | 17.0  | 12    | <0.1  | <0.1  | 0.3   | 11    | 0.05  |
| 1645245 | Rock    | 0.87 | <0.005 | 0.5   | 38.9  | 13.0  | 86    | <0.1  | 25.4  | 15.9  | 210   | 3.55  | <0.5  | 1.6   | 16.8  | 12    | 0.1   | <0.1  | 0.2   | 10    | 0.04  |
| 1645246 | Rock    | 0.89 | <0.005 | 0.5   | 35.0  | 15.1  | 61    | <0.1  | 19.8  | 9.7   | 213   | 3.28  | <0.5  | 1.5   | 18.1  | 17    | <0.1  | <0.1  | 0.3   | 9     | 0.05  |
| 1645247 | Rock    | 0.94 | <0.005 | 0.4   | 23.9  | 18.2  | 56    | <0.1  | 29.6  | 13.9  | 294   | 2.14  | 3.9   | 1.6   | 13.9  | 10    | <0.1  | <0.1  | 0.2   | 13    | 0.08  |
| 1645248 | Rock    | 0.94 | 0.012  | 0.9   | 29.2  | 17.8  | 67    | <0.1  | 33.8  | 11.7  | 361   | 2.99  | 3.1   | 1.3   | 14.9  | 11    | <0.1  | 0.3   | 0.2   | 8     | 0.08  |
| 1645249 | Rock    | 1.00 | <0.005 | 0.9   | 27.4  | 10.5  | 63    | <0.1  | 37.0  | 14.9  | 692   | 2.99  | 8.3   | 1.4   | 12.2  | 14    | 0.1   | 0.3   | 0.1   | 19    | 0.12  |



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[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** **Tectonic Metals Inc.**  
595 Burrard St.  
Suite 2600  
Vancouver British Columbia V7X 1L7 Canada

**Project:** MCQ  
**Report Date:** August 03, 2018

**Page:** 6 of 6

**Part:** 2 of 2

# CERTIFICATE OF ANALYSIS

WHI18000288.1

|         | Method<br>Analyte<br>Unit<br>MDL | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |
|---------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|         |                                  | P     | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    | Te    |
|         |                                  | %     | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |
|         |                                  | 0.001 | 1     | 1     | 0.01  | 1     | 0.001 | 20    | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   | 0.2   |
| 1645232 | Rock                             | 0.040 | 50    | 19    | 0.71  | 161   | 0.003 | <20   | 1.59  | 0.013 | 0.20  | <0.1  | <0.01 | 1.8   | <0.1  | <0.05 | 4     | <0.5  | <0.2  |
| 1645233 | Rock                             | 0.031 | 49    | 25    | 0.92  | 169   | 0.004 | <20   | 1.95  | 0.014 | 0.18  | <0.1  | <0.01 | 2.4   | <0.1  | <0.05 | 5     | <0.5  | <0.2  |
| 1645234 | Rock                             | 0.037 | 47    | 23    | 0.76  | 157   | 0.004 | <20   | 1.76  | 0.014 | 0.19  | <0.1  | <0.01 | 2.7   | <0.1  | <0.05 | 5     | <0.5  | <0.2  |
| 1645235 | Rock                             | 0.031 | 34    | 21    | 0.77  | 76    | 0.006 | <20   | 1.75  | 0.014 | 0.17  | <0.1  | <0.01 | 2.3   | <0.1  | <0.05 | 5     | <0.5  | <0.2  |
| 1645236 | Rock                             | 0.026 | 35    | 20    | 0.75  | 59    | 0.004 | <20   | 1.65  | 0.018 | 0.18  | <0.1  | <0.01 | 2.1   | <0.1  | <0.05 | 5     | <0.5  | <0.2  |
| 1645237 | Rock                             | 0.037 | 46    | 18    | 0.70  | 65    | 0.003 | <20   | 1.62  | 0.013 | 0.19  | <0.1  | <0.01 | 1.9   | <0.1  | <0.05 | 4     | <0.5  | <0.2  |
| 1645238 | Rock                             | 0.034 | 46    | 19    | 0.79  | 163   | 0.003 | <20   | 1.74  | 0.013 | 0.21  | <0.1  | <0.01 | 1.9   | <0.1  | <0.05 | 5     | <0.5  | <0.2  |
| 1645239 | Rock                             | 0.028 | 46    | 11    | 0.46  | 133   | 0.002 | <20   | 1.11  | 0.012 | 0.20  | <0.1  | <0.01 | 1.3   | <0.1  | <0.05 | 3     | <0.5  | <0.2  |
| 1645240 | Rock                             | 0.030 | 40    | 12    | 0.38  | 135   | 0.002 | <20   | 0.91  | 0.012 | 0.26  | <0.1  | <0.01 | 1.7   | <0.1  | <0.05 | 3     | <0.5  | <0.2  |
| 1645241 | Rock                             | 0.028 | 41    | 15    | 0.55  | 82    | 0.003 | <20   | 1.31  | 0.010 | 0.20  | <0.1  | <0.01 | 2.1   | <0.1  | <0.05 | 3     | <0.5  | <0.2  |
| 1645242 | Rock                             | 0.029 | 10    | 17    | 0.74  | 161   | 0.015 | <20   | 1.70  | 0.007 | 0.22  | <0.1  | <0.01 | 2.0   | <0.1  | <0.05 | 4     | <0.5  | <0.2  |
| 1645243 | Rock                             | 0.056 | 19    | 74    | 1.40  | 79    | 0.102 | <20   | 2.06  | 0.025 | 0.03  | <0.1  | <0.01 | 6.6   | <0.1  | <0.05 | 6     | <0.5  | <0.2  |
| 1645244 | Rock                             | 0.031 | 43    | 20    | 0.73  | 157   | 0.004 | <20   | 1.64  | 0.010 | 0.20  | <0.1  | <0.01 | 2.0   | <0.1  | <0.05 | 4     | <0.5  | <0.2  |
| 1645245 | Rock                             | 0.027 | 32    | 17    | 0.71  | 110   | 0.003 | <20   | 1.54  | 0.010 | 0.21  | <0.1  | <0.01 | 1.8   | <0.1  | <0.05 | 4     | <0.5  | <0.2  |
| 1645246 | Rock                             | 0.029 | 54    | 15    | 0.47  | 134   | 0.002 | <20   | 1.19  | 0.011 | 0.23  | <0.1  | <0.01 | 1.9   | <0.1  | <0.05 | 3     | <0.5  | <0.2  |
| 1645247 | Rock                             | 0.023 | 22    | 17    | 0.40  | 158   | 0.001 | <20   | 1.06  | 0.012 | 0.19  | <0.1  | <0.01 | 2.9   | <0.1  | <0.05 | 3     | <0.5  | <0.2  |
| 1645248 | Rock                             | 0.027 | 37    | 12    | 0.34  | 169   | 0.001 | <20   | 1.08  | 0.008 | 0.19  | <0.1  | 0.01  | 2.0   | <0.1  | <0.05 | 3     | <0.5  | <0.2  |
| 1645249 | Rock                             | 0.051 | 35    | 13    | 0.27  | 225   | 0.002 | <20   | 0.93  | 0.012 | 0.17  | <0.1  | 0.02  | 3.6   | <0.1  | <0.05 | 2     | <0.5  | <0.2  |



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** **Tectonic Metals Inc.**  
595 Burrard St.  
Suite 2600  
Vancouver British Columbia V7X 1L7 Canada

**Project:** MCQ  
**Report Date:** August 03, 2018

**Page:** 1 of 3

**Part:** 1 of 2

## QUALITY CONTROL REPORT

WHI18000288.1

|                        | Method<br>Analyte<br>Unit<br>MDL | WGHT | FA430  | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |
|------------------------|----------------------------------|------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                        |                                  | Wgt  | Au     | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    |
|                        |                                  | kg   | ppm    | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     |
|                        |                                  | 0.01 | 0.005  | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     |
| Pulp Duplicates        |                                  |      |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 1645129                | Rock                             | 0.93 | <0.005 | 1.3   | 19.2  | 11.2  | 56    | 0.1   | 21.4  | 7.2   | 334   | 2.24  | 6.2   | 1.2   | 7.6   | 13    | 0.3   | 0.5   | 0.2   | 19    | 0.13  |
| REP 1645129            | QC                               |      |        | 1.2   | 19.5  | 10.9  | 52    | <0.1  | 20.5  | 6.9   | 324   | 2.18  | 6.1   | 1.6   | 7.2   | 12    | 0.2   | 0.5   | 0.2   | 18    | 0.13  |
| 1645164                | Rock                             | 1.00 | <0.005 | 1.2   | 26.9  | 10.5  | 82    | 0.1   | 28.0  | 9.0   | 410   | 2.82  | 7.3   | 2.5   | 8.0   | 14    | 0.6   | 0.5   | 0.2   | 26    | 0.10  |
| REP 1645164            | QC                               |      |        | 1.2   | 26.7  | 10.3  | 83    | 0.1   | 27.7  | 8.9   | 417   | 2.78  | 7.2   | <0.5  | 7.8   | 14    | 0.6   | 0.5   | 0.2   | 26    | 0.10  |
| 1645165                | Rock                             | 0.80 | 0.006  | 1.3   | 29.5  | 12.5  | 97    | 0.1   | 33.9  | 11.0  | 375   | 2.98  | 7.9   | 0.5   | 9.3   | 16    | 0.4   | 0.5   | 0.2   | 27    | 0.11  |
| REP 1645165            | QC                               |      | <0.005 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 1645178                | Rock                             | 0.97 | 0.005  | 1.1   | 31.4  | 12.7  | 83    | 0.1   | 30.0  | 10.5  | 333   | 2.91  | 5.6   | 2.3   | 11.1  | 17    | 0.5   | 0.4   | 0.2   | 24    | 0.15  |
| REP 1645178            | QC                               |      | 0.005  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 1645199                | Rock                             | 0.75 | <0.005 | 2.7   | 16.6  | 18.5  | 47    | <0.1  | 38.4  | 13.7  | 546   | 2.31  | 2.2   | <0.5  | 6.9   | 7     | 0.1   | 0.1   | <0.1  | 42    | 0.09  |
| REP 1645199            | QC                               |      |        | 0.7   | 16.6  | 18.6  | 46    | <0.1  | 38.3  | 13.2  | 556   | 2.33  | 2.3   | <0.5  | 7.0   | 7     | <0.1  | <0.1  | <0.1  | 42    | 0.09  |
| 1645234                | Rock                             | 0.97 | <0.005 | 1.2   | 43.9  | 16.0  | 91    | <0.1  | 24.9  | 10.7  | 427   | 4.06  | 1.7   | 1.0   | 15.6  | 13    | 0.1   | 0.2   | 0.4   | 16    | 0.02  |
| REP 1645234            | QC                               |      |        | 1.2   | 44.8  | 16.3  | 95    | <0.1  | 25.9  | 10.7  | 450   | 4.14  | 1.6   | 1.2   | 15.8  | 13    | 0.2   | 0.1   | 0.4   | 16    | 0.02  |
| 1645240                | Rock                             | 0.85 | <0.005 | 0.7   | 35.8  | 33.9  | 43    | 0.2   | 10.9  | 4.4   | 153   | 2.50  | <0.5  | <0.5  | 15.2  | 13    | <0.1  | <0.1  | 0.6   | 8     | 0.02  |
| REP 1645240            | QC                               |      | <0.005 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Core Reject Duplicates |                                  |      |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 1645128                | Rock                             | 0.91 | <0.005 | 0.9   | 28.6  | 9.9   | 64    | <0.1  | 27.6  | 11.0  | 336   | 2.93  | 5.2   | 0.9   | 12.2  | 12    | 0.1   | 0.5   | 0.1   | 15    | 0.09  |
| DUP 1645128            | QC                               |      | 0.010  | 0.9   | 28.1  | 9.9   | 64    | <0.1  | 27.0  | 10.7  | 322   | 2.91  | 5.3   | <0.5  | 11.8  | 12    | <0.1  | 0.6   | 0.2   | 15    | 0.09  |
| 1645162                | Rock                             | 0.98 | <0.005 | 0.9   | 27.3  | 11.5  | 85    | 0.1   | 36.0  | 12.3  | 569   | 2.81  | 4.3   | <0.5  | 10.5  | 12    | 0.5   | 0.3   | 0.2   | 18    | 0.07  |
| DUP 1645162            | QC                               |      | 0.006  | 0.9   | 28.2  | 12.2  | 86    | 0.1   | 38.1  | 12.8  | 579   | 2.95  | 4.6   | 1.2   | 11.1  | 13    | 0.6   | 0.3   | 0.2   | 19    | 0.08  |
| 1645196                | Rock                             | 1.05 | <0.005 | 2.1   | 32.7  | 37.0  | 74    | 0.1   | 16.7  | 3.4   | 184   | 3.77  | 1.2   | 1.8   | 19.3  | 27    | <0.1  | 0.3   | 0.7   | 11    | 0.07  |
| DUP 1645196            | QC                               |      | 0.005  | 2.1   | 31.7  | 37.6  | 75    | 0.1   | 17.2  | 3.4   | 187   | 3.72  | 1.1   | <0.5  | 19.1  | 28    | <0.1  | 0.3   | 0.7   | 11    | 0.06  |
| 1645230                | Rock                             | 0.92 | <0.005 | 0.6   | 19.7  | 9.7   | 52    | <0.1  | 14.1  | 4.9   | 160   | 2.54  | 1.4   | 0.8   | 12.7  | 11    | <0.1  | <0.1  | 0.1   | 10    | 0.05  |
| DUP 1645230            | QC                               |      | 0.006  | 0.5   | 20.0  | 10.0  | 54    | <0.1  | 14.3  | 5.0   | 165   | 2.58  | 1.4   | <0.5  | 12.9  | 11    | <0.1  | <0.1  | 0.2   | 10    | 0.05  |
| Reference Materials    |                                  |      |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD DS11               | Standard                         |      |        | 13.3  | 141.1 | 138.4 | 338   | 1.7   | 76.5  | 12.7  | 1002  | 2.95  | 42.1  | 61.6  | 7.7   | 62    | 2.1   | 7.1   | 11.0  | 47    | 1.02  |
| STD DS11               | Standard                         |      |        | 13.3  | 146.1 | 129.3 | 338   | 1.5   | 74.2  | 12.5  | 936   | 2.89  | 40.8  | 39.4  | 7.4   | 60    | 2.2   | 7.2   | 10.8  | 48    | 1.00  |
| STD DS11               | Standard                         |      |        | 13.0  | 139.1 | 129.4 | 315   | 1.8   | 72.8  | 12.9  | 964   | 2.91  | 40.3  | 57.3  | 7.7   | 63    | 2.2   | 7.4   | 10.5  | 47    | 1.00  |
| STD DS11               | Standard                         |      |        | 13.9  | 146.3 | 131.4 | 332   | 1.6   | 75.2  | 12.6  | 1026  | 2.99  | 44.0  | 51.2  | 7.3   | 68    | 2.4   | 7.3   | 11.4  | 46    | 1.04  |



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Canada

[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** **Tectonic Metals Inc.**  
595 Burrard St.  
Suite 2600  
Vancouver British Columbia V7X 1L7 Canada

**Project:** MCQ  
**Report Date:** August 03, 2018

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**Part:** 2 of 2

## QUALITY CONTROL REPORT

WHI18000288.1

| Method                 |          | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |
|------------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte                |          | P     | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    | Te    |
| Unit                   |          | %     | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |
| MDL                    |          | 0.001 | 1     | 1     | 0.01  | 1     | 0.001 | 20    | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   | 0.2   |
| Pulp Duplicates        |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 1645129                | Rock     | 0.040 | 19    | 17    | 0.32  | 250   | 0.012 | <20   | 0.81  | 0.018 | 0.13  | 0.2   | 0.02  | 2.1   | <0.1  | <0.05 | 3     | <0.5  | <0.2  |
| REP 1645129            | QC       | 0.037 | 18    | 17    | 0.31  | 239   | 0.011 | <20   | 0.79  | 0.017 | 0.12  | 0.2   | 0.03  | 2.1   | <0.1  | <0.05 | 3     | <0.5  | <0.2  |
| 1645164                | Rock     | 0.047 | 22    | 23    | 0.45  | 399   | 0.019 | <20   | 1.21  | 0.017 | 0.16  | 0.1   | 0.03  | 2.9   | <0.1  | <0.05 | 3     | <0.5  | <0.2  |
| REP 1645164            | QC       | 0.048 | 21    | 22    | 0.44  | 390   | 0.019 | <20   | 1.19  | 0.018 | 0.16  | 0.1   | 0.03  | 2.8   | <0.1  | <0.05 | 3     | <0.5  | <0.2  |
| 1645165                | Rock     | 0.049 | 25    | 27    | 0.46  | 397   | 0.015 | <20   | 1.28  | 0.017 | 0.19  | <0.1  | 0.05  | 2.8   | <0.1  | <0.05 | 4     | <0.5  | <0.2  |
| REP 1645165            | QC       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 1645178                | Rock     | 0.049 | 29    | 23    | 0.52  | 374   | 0.013 | <20   | 1.33  | 0.014 | 0.19  | <0.1  | 0.03  | 2.8   | <0.1  | <0.05 | 4     | <0.5  | <0.2  |
| REP 1645178            | QC       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 1645199                | Rock     | 0.040 | 16    | 85    | 0.95  | 54    | 0.009 | <20   | 1.25  | 0.033 | 0.01  | <0.1  | <0.01 | 5.8   | <0.1  | <0.05 | 4     | <0.5  | <0.2  |
| REP 1645199            | QC       | 0.039 | 16    | 80    | 0.95  | 55    | 0.009 | <20   | 1.26  | 0.034 | 0.01  | <0.1  | <0.01 | 5.9   | <0.1  | <0.05 | 4     | <0.5  | <0.2  |
| 1645234                | Rock     | 0.037 | 47    | 23    | 0.76  | 157   | 0.004 | <20   | 1.76  | 0.014 | 0.19  | <0.1  | <0.01 | 2.7   | <0.1  | <0.05 | 5     | <0.5  | <0.2  |
| REP 1645234            | QC       | 0.035 | 47    | 23    | 0.79  | 160   | 0.004 | <20   | 1.76  | 0.014 | 0.19  | <0.1  | <0.01 | 2.7   | <0.1  | <0.05 | 5     | <0.5  | <0.2  |
| 1645240                | Rock     | 0.030 | 40    | 12    | 0.38  | 135   | 0.002 | <20   | 0.91  | 0.012 | 0.26  | <0.1  | <0.01 | 1.7   | <0.1  | <0.05 | 3     | <0.5  | <0.2  |
| REP 1645240            | QC       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Core Reject Duplicates |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 1645128                | Rock     | 0.032 | 28    | 19    | 0.42  | 150   | 0.009 | <20   | 1.05  | 0.020 | 0.17  | <0.1  | 0.03  | 2.2   | <0.1  | <0.05 | 3     | <0.5  | <0.2  |
| DUP 1645128            | QC       | 0.034 | 28    | 18    | 0.43  | 144   | 0.009 | <20   | 1.03  | 0.019 | 0.17  | <0.1  | 0.03  | 2.2   | <0.1  | <0.05 | 3     | <0.5  | <0.2  |
| 1645162                | Rock     | 0.036 | 27    | 20    | 0.47  | 417   | 0.011 | <20   | 1.24  | 0.016 | 0.17  | <0.1  | 0.04  | 2.4   | <0.1  | <0.05 | 3     | <0.5  | <0.2  |
| DUP 1645162            | QC       | 0.038 | 27    | 21    | 0.49  | 422   | 0.010 | <20   | 1.28  | 0.018 | 0.19  | <0.1  | 0.02  | 2.4   | <0.1  | <0.05 | 3     | <0.5  | <0.2  |
| 1645196                | Rock     | 0.046 | 44    | 17    | 0.65  | 182   | 0.002 | <20   | 1.31  | 0.011 | 0.21  | <0.1  | 0.01  | 1.7   | 0.1   | <0.05 | 4     | <0.5  | <0.2  |
| DUP 1645196            | QC       | 0.048 | 45    | 17    | 0.65  | 189   | 0.002 | <20   | 1.33  | 0.012 | 0.22  | <0.1  | 0.01  | 1.8   | 0.1   | <0.05 | 4     | <0.5  | <0.2  |
| 1645230                | Rock     | 0.023 | 30    | 15    | 0.57  | 140   | 0.003 | <20   | 1.29  | 0.016 | 0.16  | <0.1  | <0.01 | 1.7   | <0.1  | <0.05 | 4     | <0.5  | <0.2  |
| DUP 1645230            | QC       | 0.021 | 30    | 16    | 0.57  | 140   | 0.003 | <20   | 1.31  | 0.017 | 0.16  | <0.1  | <0.01 | 1.8   | <0.1  | <0.05 | 4     | <0.5  | <0.2  |
| Reference Materials    |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD DS11               | Standard | 0.069 | 18    | 56    | 0.79  | 416   | 0.088 | <20   | 1.11  | 0.068 | 0.39  | 2.5   | 0.25  | 3.2   | 4.7   | 0.26  | 5     | 1.2   | 4.5   |
| STD DS11               | Standard | 0.072 | 17    | 53    | 0.79  | 410   | 0.084 | <20   | 1.11  | 0.068 | 0.38  | 2.9   | 0.25  | 3.1   | 4.8   | 0.26  | 5     | 2.1   | 4.2   |
| STD DS11               | Standard | 0.068 | 17    | 56    | 0.79  | 402   | 0.085 | <20   | 1.07  | 0.068 | 0.39  | 2.4   | 0.22  | 3.1   | 4.8   | 0.26  | 5     | 1.7   | 4.4   |
| STD DS11               | Standard | 0.071 | 18    | 57    | 0.82  | 425   | 0.097 | <20   | 1.14  | 0.071 | 0.39  | 2.4   | 0.27  | 3.6   | 4.8   | 0.26  | 5     | 2.0   | 4.3   |



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Canada

[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** **Tectonic Metals Inc.**  
595 Burrard St.  
Suite 2600  
Vancouver British Columbia V7X 1L7 Canada

**Project:** MCQ  
**Report Date:** August 03, 2018

**Page:** 2 of 3

**Part:** 1 of 2

## QUALITY CONTROL REPORT

WHI18000288.1

|                        |          | WGHT | FA430  | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |
|------------------------|----------|------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                        |          | Wgt  | Au     | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    |
|                        |          | kg   | ppm    | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     |
|                        |          | 0.01 | 0.005  | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  |
| STD OREAS45EA          | Standard |      |        | 1.5   | 710.8 | 13.9  | 32    | 0.3   | 396.6 | 51.5  | 406   | 20.89 | 11.7  | 50.2  | 10.1  | 4     | <0.1  | 0.2   | 0.2   | 290   | 0.03  |
| STD OREAS45EA          | Standard |      |        | 1.6   | 691.7 | 13.4  | 31    | 0.3   | 385.9 | 50.3  | 392   | 20.24 | 11.2  | 49.3  | 10.1  | 3     | <0.1  | 0.4   | 0.2   | 289   | 0.03  |
| STD OREAS45EA          | Standard |      |        | 1.7   | 687.0 | 13.4  | 29    | 0.2   | 383.9 | 52.0  | 378   | 19.89 | 11.3  | 53.5  | 10.0  | 4     | <0.1  | 0.4   | 0.2   | 284   | 0.03  |
| STD OREAS45EA          | Standard |      |        | 1.7   | 701.6 | 14.3  | 30    | 0.3   | 403.7 | 49.7  | 409   | 20.80 | 11.7  | 47.4  | 10.5  | 4     | <0.1  | 0.3   | 0.2   | 313   | 0.03  |
| STD OXC145             | Standard |      | 0.222  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD OXC145             | Standard |      | 0.219  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD OXC145             | Standard |      | 0.223  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD OXH139             | Standard |      | 1.322  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD OXH139             | Standard |      | 1.300  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD OXH139             | Standard |      | 1.303  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD OXN134             | Standard |      | 7.990  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD OXN134             | Standard |      | 7.902  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD OXN134             | Standard |      | 7.944  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD OXN134 Expected    |          |      | 7.667  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD OXC145 Expected    |          |      | 0.212  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD OXH139 Expected    |          |      | 1.312  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| STD OREAS45EA Expected |          |      |        | 1.6   | 709   | 14.3  | 31.4  | 0.26  | 381   | 52    | 400   | 22.65 | 11.4  | 53    | 10.7  | 4.05  | 0.03  | 0.32  | 0.26  | 303   | 0.036 |
| STD DS11 Expected      |          |      |        | 13.9  | 149   | 138   | 345   | 1.71  | 77.7  | 14.2  | 1055  | 3.1   | 42.8  | 79    | 7.65  | 67.3  | 2.37  | 7.2   | 12.2  | 50    | 1.063 |
| BLK                    | Blank    |      | <0.005 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| BLK                    | Blank    |      | <0.005 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| BLK                    | Blank    |      | <0.005 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| BLK                    | Blank    |      | <0.005 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| BLK                    | Blank    |      | <0.005 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| BLK                    | Blank    |      | <0.005 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| BLK                    | Blank    |      | <0.005 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| BLK                    | Blank    |      |        | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 |
| BLK                    | Blank    |      |        | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 |
| BLK                    | Blank    |      |        | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 |
| BLK                    | Blank    |      |        | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 |
| Prep Wash              |          |      |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |



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Canada

[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** **Tectonic Metals Inc.**  
595 Burrard St.  
Suite 2600  
Vancouver British Columbia V7X 1L7 Canada

**Project:** MCQ  
**Report Date:** August 03, 2018

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## QUALITY CONTROL REPORT

WHI18000288.1

|                        |          | AQ200<br>P<br>% | AQ200<br>La<br>ppm | AQ200<br>Cr<br>ppm | AQ200<br>Mg<br>% | AQ200<br>Ba<br>ppm | AQ200<br>Ti<br>% | AQ200<br>B<br>ppm | AQ200<br>Al<br>% | AQ200<br>Na<br>% | AQ200<br>K<br>% | AQ200<br>W<br>ppm | AQ200<br>Hg<br>ppm | AQ200<br>Sc<br>ppm | AQ200<br>Ti<br>ppm | AQ200<br>S<br>% | AQ200<br>Ga<br>ppm | AQ200<br>Se<br>ppm | AQ200<br>Te<br>ppm |
|------------------------|----------|-----------------|--------------------|--------------------|------------------|--------------------|------------------|-------------------|------------------|------------------|-----------------|-------------------|--------------------|--------------------|--------------------|-----------------|--------------------|--------------------|--------------------|
|                        |          | 0.001           | 1                  | 1                  | 0.01             | 1                  | 0.001            | 20                | 0.01             | 0.001            | 0.01            | 0.1               | 0.01               | 0.1                | 0.1                | 0.05            | 1                  | 0.5                | 0.2                |
| STD OREAS45EA          | Standard | 0.031           | 7                  | 843                | 0.09             | 147                | 0.093            | <20               | 3.36             | 0.017            | 0.05            | <0.1              | 0.02               | 80.1               | <0.1               | <0.05           | 12                 | 1.6                | <0.2               |
| STD OREAS45EA          | Standard | 0.031           | 7                  | 796                | 0.09             | 137                | 0.092            | <20               | 3.19             | 0.016            | 0.05            | <0.1              | 0.03               | 72.7               | <0.1               | <0.05           | 11                 | 0.9                | <0.2               |
| STD OREAS45EA          | Standard | 0.030           | 7                  | 820                | 0.09             | 137                | 0.094            | <20               | 3.19             | 0.016            | 0.05            | <0.1              | 0.01               | 79.9               | <0.1               | <0.05           | 12                 | 1.1                | <0.2               |
| STD OREAS45EA          | Standard | 0.029           | 7                  | 835                | 0.10             | 147                | 0.104            | <20               | 3.34             | 0.021            | 0.05            | <0.1              | 0.02               | 81.2               | 0.1                | <0.05           | 13                 | 1.2                | <0.2               |
| STD OXC145             | Standard |                 |                    |                    |                  |                    |                  |                   |                  |                  |                 |                   |                    |                    |                    |                 |                    |                    |                    |
| STD OXC145             | Standard |                 |                    |                    |                  |                    |                  |                   |                  |                  |                 |                   |                    |                    |                    |                 |                    |                    |                    |
| STD OXC145             | Standard |                 |                    |                    |                  |                    |                  |                   |                  |                  |                 |                   |                    |                    |                    |                 |                    |                    |                    |
| STD OXH139             | Standard |                 |                    |                    |                  |                    |                  |                   |                  |                  |                 |                   |                    |                    |                    |                 |                    |                    |                    |
| STD OXH139             | Standard |                 |                    |                    |                  |                    |                  |                   |                  |                  |                 |                   |                    |                    |                    |                 |                    |                    |                    |
| STD OXH139             | Standard |                 |                    |                    |                  |                    |                  |                   |                  |                  |                 |                   |                    |                    |                    |                 |                    |                    |                    |
| STD OXN134             | Standard |                 |                    |                    |                  |                    |                  |                   |                  |                  |                 |                   |                    |                    |                    |                 |                    |                    |                    |
| STD OXN134             | Standard |                 |                    |                    |                  |                    |                  |                   |                  |                  |                 |                   |                    |                    |                    |                 |                    |                    |                    |
| STD OXN134             | Standard |                 |                    |                    |                  |                    |                  |                   |                  |                  |                 |                   |                    |                    |                    |                 |                    |                    |                    |
| STD OXN134 Expected    |          |                 |                    |                    |                  |                    |                  |                   |                  |                  |                 |                   |                    |                    |                    |                 |                    |                    |                    |
| STD OXC145 Expected    |          |                 |                    |                    |                  |                    |                  |                   |                  |                  |                 |                   |                    |                    |                    |                 |                    |                    |                    |
| STD OXH139 Expected    |          |                 |                    |                    |                  |                    |                  |                   |                  |                  |                 |                   |                    |                    |                    |                 |                    |                    |                    |
| STD OREAS45EA Expected |          | 0.029           | 7.06               | 849                | 0.095            | 148                | 0.0984           |                   | 3.32             | 0.02             | 0.053           |                   |                    | 78                 | 0.072              | 0.036           | 12.4               | 0.78               | 0.1                |
| STD DS11 Expected      |          | 0.0701          | 18.6               | 61.5               | 0.85             | 417                | 0.0976           |                   | 1.129            | 0.0694           | 0.4             | 2.9               | 0.26               | 3.1                | 4.9                | 0.2835          | 4.7                | 2.2                | 4.56               |
| BLK                    | Blank    |                 |                    |                    |                  |                    |                  |                   |                  |                  |                 |                   |                    |                    |                    |                 |                    |                    |                    |
| BLK                    | Blank    |                 |                    |                    |                  |                    |                  |                   |                  |                  |                 |                   |                    |                    |                    |                 |                    |                    |                    |
| BLK                    | Blank    |                 |                    |                    |                  |                    |                  |                   |                  |                  |                 |                   |                    |                    |                    |                 |                    |                    |                    |
| BLK                    | Blank    |                 |                    |                    |                  |                    |                  |                   |                  |                  |                 |                   |                    |                    |                    |                 |                    |                    |                    |
| BLK                    | Blank    |                 |                    |                    |                  |                    |                  |                   |                  |                  |                 |                   |                    |                    |                    |                 |                    |                    |                    |
| BLK                    | Blank    |                 |                    |                    |                  |                    |                  |                   |                  |                  |                 |                   |                    |                    |                    |                 |                    |                    |                    |
| BLK                    | Blank    | <0.001          | <1                 | <1                 | <0.01            | <1                 | <0.001           | <20               | <0.01            | <0.001           | <0.01           | <0.1              | 0.01               | <0.1               | <0.1               | <0.05           | <1                 | <0.5               | <0.2               |
| BLK                    | Blank    | <0.001          | <1                 | <1                 | <0.01            | <1                 | <0.001           | <20               | <0.01            | <0.001           | <0.01           | <0.1              | <0.01              | <0.1               | <0.1               | <0.05           | <1                 | <0.5               | <0.2               |
| BLK                    | Blank    | <0.001          | <1                 | <1                 | <0.01            | <1                 | <0.001           | <20               | <0.01            | <0.001           | <0.01           | <0.1              | <0.01              | <0.1               | <0.1               | <0.05           | <1                 | <0.5               | <0.2               |
| BLK                    | Blank    | <0.001          | <1                 | <1                 | <0.01            | <1                 | <0.001           | <20               | <0.01            | <0.001           | <0.01           | <0.1              | <0.01              | <0.1               | <0.1               | <0.05           | <1                 | <0.5               | <0.2               |
| Prep Wash              |          |                 |                    |                    |                  |                    |                  |                   |                  |                  |                 |                   |                    |                    |                    |                 |                    |                    |                    |



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** **Tectonic Metals Inc.**  
595 Burrard St.  
Suite 2600  
Vancouver British Columbia V7X 1L7 Canada

**Project:** MCQ  
**Report Date:** August 03, 2018

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## QUALITY CONTROL REPORT

WHI18000288.1

|          |            | WGHT | FA430  | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |
|----------|------------|------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|          |            | Wgt  | Au     | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    |
|          |            | kg   | ppm    | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     |
|          |            | 0.01 | 0.005  | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  |
| ROCK-WHI | Prep Blank |      | <0.005 | 1.1   | 2.2   | 0.9   | 34    | <0.1  | 0.8   | 3.2   | 493   | 1.63  | 1.2   | 4.7   | 2.0   | 25    | <0.1  | <0.1  | <0.1  | 19    | 0.73  |
| ROCK-WHI | Prep Blank |      | <0.005 | 1.4   | 3.6   | 1.0   | 33    | <0.1  | 1.0   | 3.6   | 523   | 1.77  | 1.2   | 1.6   | 2.1   | 27    | <0.1  | <0.1  | <0.1  | 21    | 0.65  |





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Canada

[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** **Tectonic Metals Inc.**  
595 Burrard St.  
Suite 2600  
Vancouver British Columbia V7X 1L7 Canada

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**Report Date:** August 03, 2018

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## QUALITY CONTROL REPORT

WHI18000288.1

|          |            | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |      |
|----------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|          |            | P     | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    | Te   |
|          |            | %     | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm  |
|          |            | 0.001 | 1     | 1     | 0.01  | 1     | 0.001 | 20    | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   | 0.2  |
| ROCK-WHI | Prep Blank | 0.039 | 5     | 2     | 0.47  | 56    | 0.069 | <20   | 0.97  | 0.079 | 0.09  | <0.1  | <0.01 | 2.7   | <0.1  | <0.05 | 4     | <0.5  | <0.2 |
| ROCK-WHI | Prep Blank | 0.040 | 6     | 2     | 0.49  | 60    | 0.076 | <20   | 0.97  | 0.083 | 0.10  | <0.1  | <0.01 | 2.9   | <0.1  | <0.05 | 4     | <0.5  | <0.2 |