# CDN Resource Laboratories Ltd.

## Certificate of Analysis

## REFERENCE MATERIAL: CDN-ME-2403

**Recommended values and the "Between Lab" Two Standard Deviations**

| Precious Metals and Targeted Major Base Metals | | | | | |
|---|---|---|---|---|---|
| Gold | 0.288 gpt | ± | 0.027 gpt | Fire Assay, instrument finish | Certified value |
| Copper | 0.315 % | ± | 0.016 % | 4 Acid digestion / instrument finish | |
| Molybdenum | 0.0024 % | ± | 0.0002 % | | |
| Lead | 191 ppm | ± | 13 ppm | | |
| Zinc | 535 ppm | ± | 34 ppm | | |

| Major and Minor Base Metals | | | | | |
|---|---|---|---|---|---|
| Calcium | 4.37 % | ± | 0.24 % | 4 Acid digestion / instrument finish | Certified value |
| Cobalt | 76.9 ppm | ± | 3.9 ppm | | |
| Iron | 8.52 % | ± | 0.44 % | | |
| Potassium | 0.31 % | ± | 0.01 % | | |
| Magnesium | 4.64 % | ± | 0.11 % | | |
| Manganese | 903.2 ppm | ± | 27.8 ppm | | |
| Nickel | 0.126 % | ± | 0.008 % | | |
| Sodium | 1.50 % | ± | 0.06 | | |
| Strontium | 264 ppm | ± | 12 ppm | | |
| Sulfur | 0.65 % | ± | 0.05 | | |

| Major Oxides | | | | |
|---|---|---|---|---|
| $SiO_2$ | 54.99 % | ± | 1.40 % | Certified value |
| $Al_2O_3$ | 13.67 % | ± | 0.62 % | |
| $Fe_2O_3$ | 12.4 % | ± | 0.4 % | |
| $Na_2O$ | 2.04 % | ± | 0.09 % | |
| CaO | 6.20 % | ± | 0.20 % | |
| MnO | 0.12 % | ± | 0.01 % | |
| MgO | 7.80 % | ± | 0.12 % | |
| K2O | 0.37 % | ± | 0.02 % | |
| $TiO_2$ | 1.13 % | ± | 0.12 % | |
| Total S | 0.62 % | ± | 0.02 % | |

**Note 1:** Standards with an RSD of near or less than 5% are certified; RSD's of between 5% and 15% are Provisional; RSD's over 15% are Indicated. Provisional and Indicated values cannot be used to monitor accuracy with a high degree of certainty.

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**CERTIFIED BY:** Ali Alizadeh, MSc, MBA, P Geo, FGC
**INDEPENDENT GEOCHEMIST:** Dr. Barry Smee., Ph.D., FGC
**DATE OF CERTIFICATION:** May 27th, 2025

**ORIGIN OF REFERENCE MATERIAL:**
Standard CDN-ME-2403 was prepared from ore sourced at Barrick Gold Corporation's Veladero Mine in Argentina.

The alteration pattern reflects characteristics typical of high-sulphidation epithermal systems, beginning with a central silicified zone that transitions outward into silica-alunite and subsequently into argillic alteration zones. Gold mineralization is primarily confined to the silicified core, which comprises silica, hematite, goethite, and jarosite. Sulphide minerals are present only in trace amounts, typically less than one percent.

The dominant lithologies include hydrothermal breccias, felsic tuffs, pyroclastic breccias, and felsic to intermediate tuffs. Gold introduction occurred after key geological events such as the diatreme eruption, acid leaching, and the main phases of silicification and fracturing. This mineralization phase either coincided with or followed closely after the hypogene deposition of iron oxides and jarosite. The key factors controlling gold deposition include structurally generated open spaces (such as fracture zones and structural intersections), the nature of the host rocks, degree of brecciation and alteration, and stratigraphic elevation.
**Specific Gravity** of this material was analyzed by 4 labs with **Provisional mean of 2.9 +/- 1.5.**

**METHOD OF PREPARATION:**
Reject ore material was dried, crushed, pulverized, and then passed through a 270-mesh screen. The +270 material was discarded. The -270 material was mixed for 5 days in a double-cone mixer. Splits were taken and submitted to 18 commercial and mine laboratories for round-robin assaying.

**Assay Procedures:**

| | |
|---|---|
| **Au:** | Fire assay, AA or ICP finish. |
| **Major and Minor Base Metals:** | 4-acid digestion and Aqua regia digestion instrumental finish |
| **Major Oxides** | Fusion, XRF finish . |

**Statistical Procedures:**

Final limits were calculated by first assessing whether the data fell within the expected variance range for comparable methods used by reputable laboratories. Data from any one laboratory was removed from further calculations when the means of all analyses from that laboratory failed at test of the global means of the other laboratories. The means and standard deviations were calculated using all remaining

data. Any analysis that fell outside of the mean ±2 standard deviations was removed from the ensuing database. The mean and standard deviations were again calculated using the remaining data. This method is different from that used by Government agencies in that the actual "between-laboratory" standard deviation is used in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses. The limits can therefore be used to monitor accuracy from individual analyses, unlike the Confidence Limits published on other standards.

**Quality Assurance and Quality Control Procedures:**

**Screening Test:** Three samples, 300g each of homogenized material, were randomly collected and **were** re-screened using a testing sieve. Based on CDN's screening test, the oversize material in this standard was approximately 1.5%.

**Homogeneity Test:**

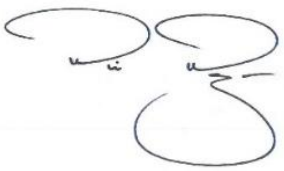
Ten samples were randomly selected from across the batch and submitted to an independent laboratory accredited to the ISO/IEC 17025 standard, which specifies general requirements for the competence of testing and calibration laboratories. The analytical results provided by this laboratory were subsequently evaluated by CDN using statistical methods to assess homogeneity.

The assay data were analyzed by calculating the mean, standard deviation, and relative standard deviation (%RSD). Following the methodology outlined in Thompson, M. (Ed.) (2008), Test for 'Sufficient Homogeneity' in a Reference Material, Analytical Methods Committee, AMCTB 17A, ISSN 1757-5958, the results confirm that material CDN-ME-2403 meets the criteria for statistical homogeneity (see Appendix III).

**LEGAL NOTICE:**

This certificate and the reference material described in it have been prepared with due care and attention. However, CDN Resource Laboratories Ltd. nor Barry Smee accept any liability for any decisions or actions taken following the use of the reference material. Our liability is limited solely to the cost of the reference material.

Certified by



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## APPENDIX I: Results from round-robin assaying:

| | Lab 1 | Lab 2 | Lab 3 | Lab 4 | Lab 5 | Lab 6 | Lab 7 | Lab 8 | Lab 9 | Lab 10 | Lab 11 | Lab 12 | Lab 13 | Lab 14 | Lab 15 | Lab 16 | Lab 17 | Lab 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Au by Fire Assay, ICP or AA finish** | | | | | | | | | | | | | | | | | |
| **ME-2403** | 0.330 | 0.269 | 0.30 | - | 0.282 | 0.289 | 0.289 | 0.33 | 0.30 | 0.27 | 0.38 | 0.283 | 0.292 | 0.282 | 0.24 | 0.308 | 0.31 | 0.293 |
| | 0.332 | 0.287 | 0.28 | - | 0.257 | 0.299 | 0.310 | 0.33 | 0.28 | 0.28 | 0.30 | 0.281 | 0.292 | 0.286 | 0.29 | 0.317 | 0.27 | 0.297 |
| | 0.329 | 0.291 | 0.28 | - | 0.251 | 0.293 | 0.284 | 0.33 | 0.28 | 0.26 | 0.31 | 0.284 | 0.272 | 0.283 | 0.29 | 0.319 | 0.25 | 0.334 |
| | 0.311 | 0.287 | 0.28 | - | 0.278 | 0.290 | 0.288 | 0.34 | 0.30 | 0.27 | 0.32 | 0.272 | 0.264 | 0.286 | 0.31 | 0.309 | 0.27 | 0.292 |
| | 0.318 | 0.318 | 0.28 | - | 0.257 | 0.299 | 0.274 | 0.33 | 0.29 | 0.27 | 0.28 | 0.286 | 0.300 | 0.285 | 0.30 | 0.300 | 0.29 | 0.303 |
| | 0.320 | 0.283 | 0.28 | - | 0.272 | 0.307 | 0.301 | 0.33 | 0.28 | 0.26 | 0.28 | 0.292 | 0.284 | 0.288 | 0.30 | 0.339 | 0.29 | 0.294 |
| | 0.339 | 0.298 | 0.30 | - | 0.274 | 0.290 | 0.278 | 0.32 | 0.28 | 0.27 | 0.29 | 0.307 | 0.280 | 0.282 | 0.29 | 0.303 | 0.29 | 0.303 |
| | 0.314 | 0.290 | 0.28 | - | 0.283 | 0.304 | 0.273 | 0.32 | 0.28 | 0.27 | 0.35 | 0.313 | 0.283 | 0.286 | 0.30 | 0.333 | 0.29 | 0.305 |
| **Mean** | 0.324 | 0.290 | 0.29 | - | 0.269 | 0.296 | 0.287 | 0.33 | 0.29 | 0.27 | 0.31 | 0.290 | 0.283 | 0.285 | 0.29 | 0.316 | 0.28 | 0.303 |
| **Std. Devn.** | 0.01 | 0.01 | 0.01 | - | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.00 | 0.04 | 0.01 | 0.01 | 0.00 | 0.02 | 0.01 | 0.02 | 0.01 |
| **% RSD** | 3.00 | 4.79 | 3.25 | - | 4.64 | 2.32 | 4.53 | 1.95 | 3.20 | 1.78 | 11.29 | 4.75 | 4.09 | 0.79 | 7.37 | 4.47 | 6.49 | 4.51 |
| | **Cu (%) by 4 Acid digestion Instrumental finish** | | | | | | | | | | | | | | | | | |
| **ME-2403** | 0.308 | 0.320 | - | 0.311 | - | - | 0.335 | - | - | 0.317 | - | 0.317 | - | 0.321 | - | - | - | 0.310 |
| | 0.308 | 0.311 | - | 0.310 | - | - | 0.348 | - | - | 0.319 | - | 0.312 | - | 0.320 | - | - | - | 0.310 |
| | 0.304 | 0.302 | - | 0.312 | - | - | 0.339 | - | - | 0.317 | - | 0.319 | - | 0.322 | - | - | - | 0.313 |
| | 0.308 | 0.296 | - | 0.314 | - | - | 0.333 | - | - | 0.315 | - | 0.312 | - | 0.321 | - | - | - | 0.311 |
| | 0.309 | 0.293 | - | 0.313 | - | - | 0.328 | - | - | 0.315 | - | 0.316 | - | 0.322 | - | - | - | 0.314 |
| | 0.308 | 0.294 | - | 0.311 | - | - | 0.333 | - | - | 0.314 | - | 0.316 | - | 0.321 | - | - | - | 0.319 |
| | 0.307 | 0.299 | - | 0.310 | - | - | 0.336 | - | - | 0.319 | - | 0.312 | - | 0.322 | - | - | - | 0.316 |
| | 0.309 | 0.291 | - | 0.308 | - | - | 0.341 | - | - | 0.315 | - | 0.310 | - | 0.322 | - | - | - | 0.316 |
| **Mean** | 0.308 | 0.301 | - | 0.311 | - | - | 0.337 | - | - | 0.317 | - | 0.314 | - | 0.321 | - | - | - | 0.314 |
| **Std. Devn.** | 0.00 | 0.01 | - | 0.00 | - | - | 0.01 | - | - | 0.00 | - | 0.00 | - | 0.00 | - | - | - | 0.00 |
| **% RSD** | 0.55 | 3.30 | - | 0.63 | - | - | 1.75 | - | - | 0.59 | - | 0.97 | - | 0.16 | - | - | - | 1.03 |
| | **Mo (ppm) by 4 Acid digestion Instrumental finish** | | | | | | | | | | | | | | | | | |
| **ME-2403** | 22 | 27.1 | - | - | - | - | 24.39 | - | - | 24.20 | - | 24 | - | 23.34 | - | - | - | 25.0 |
| | 21 | 25.6 | - | - | - | - | 25.89 | - | - | 24.58 | - | 23 | - | 23.91 | - | - | - | 24.6 |
| | 21 | 25.2 | - | - | - | - | 25.03 | - | - | 24.01 | - | 24 | - | 23.18 | - | - | - | 24.1 |
| | 22 | 24.4 | - | - | - | - | 24.33 | - | - | 22.28 | - | 24 | - | 23.01 | - | - | - | 25.4 |
| | 22 | 23.7 | - | - | - | - | 23.37 | - | - | 22.47 | - | 24 | - | 23.77 | - | - | - | 24.4 |
| | 22 | 24.2 | - | - | - | - | 23.43 | - | - | 23.10 | - | 25 | - | 23.36 | - | - | - | 24.6 |
| | 22 | 24.2 | - | - | - | - | 24.14 | - | - | 24.92 | - | 24 | - | 23.67 | - | - | - | 24.4 |
| | 21 | 24.8 | - | - | - | - | 24.37 | - | - | 24.83 | - | 23 | - | 23.14 | - | - | - | 25.2 |
| **Mean** | 22 | 24.9 | - | - | - | - | 24.37 | - | - | 23.80 | - | 24 | - | 23.42 | - | - | - | 24.7 |
| **Std. Devn.** | 0.52 | 1.08 | - | - | - | - | 0.82 | - | - | 1.05 | - | 0.64 | - | 0.32 | - | - | - | 0.45 |
| **% RSD** | 2.39 | 4.32 | - | - | - | - | 3.36 | - | - | 4.41 | - | 2.68 | - | 1.38 | - | - | - | 1.80 |

## APPENDIX I: Results from round-robin assaying-Continue:

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Pb (ppm) by 4 Acid digestion Instrumental finish** | | | | | | | | | | | | | | | | | | |
| **ME-2403** | 187 | 188.7 | - | - | 198.3 | - | 184.1 | - | - | 181.25 | - | 186 | - | 192.45 | - | - | - | 193 |
| | 185 | 196.4 | - | - | 193.3 | - | 192.1 | - | - | 188.47 | - | 187 | - | 192.21 | - | - | - | 194 |
| | 181 | 195.9 | - | - | 201.2 | - | 188.8 | - | - | 184.83 | - | 194 | - | 193.19 | - | - | - | 193 |
| | 180 | 201.2 | - | - | 194.4 | - | 185.4 | - | - | 180.90 | - | 192 | - | 198.58 | - | - | - | 193 |
| | 183 | 195.9 | - | - | 205.8 | - | 181.2 | - | - | 179.04 | - | 196 | - | 194.80 | - | - | - | 194 |
| | 184 | 199.0 | - | - | 203.0 | - | 185.0 | - | - | 180.64 | - | 195 | - | 199.12 | - | - | - | 193 |
| | 186 | 196.7 | - | - | 196.1 | - | 186.7 | - | - | 186.13 | - | 189 | - | 199.92 | - | - | - | 194 |
| | 186 | 191.8 | - | - | 202.0 | - | 192.8 | - | - | 184.15 | - | 188 | - | 195.59 | - | - | - | 195 |
| **Mean** | 184 | 195.7 | - | - | 199.3 | - | 187.0 | - | - | 183.18 | - | 191 | - | 195.73 | - | - | - | 194 |
| **Std. Devn.** | 2.51 | 3.91 | - | - | 4.45 | - | 3.99 | - | - | 3.22 | - | 3.87 | - | 3.11 | - | - | - | 0.74 |
| **% RSD** | 1.36 | 2.00 | - | - | 2.23 | - | 2.14 | - | - | 1.76 | - | 2.03 | - | 1.59 | - | - | - | 0.38 |
| **Zn (ppm) by 4 Acid digestion Instrumental finish** | | | | | | | | | | | | | | | | | | |
| **ME-2403** | 541 | 520 | - | - | 557.3 | - | 523.00 | - | - | 506.57 | - | 570 | - | 534.52 | - | - | - | 532 |
| | 533 | 535 | - | - | 572.5 | - | 520.72 | - | - | 510.29 | - | 545 | - | 533.82 | - | - | - | 537 |
| | 531 | 534 | - | - | 545.6 | - | 508.90 | - | - | 516.97 | - | 564 | - | 534.34 | - | - | - | 528 |
| | 559 | 522 | - | - | 568.4 | - | 505.44 | - | - | 508.34 | - | 567 | - | 536.56 | - | - | - | 532 |
| | 550 | 527 | - | - | 556.2 | - | 537.87 | - | - | 499.70 | - | 560 | - | 537.66 | - | - | - | 530 |
| | 541 | 528 | - | - | 551.5 | - | 520.89 | - | - | 513.54 | - | 561 | - | 538.52 | - | - | - | 539 |
| | 544 | 540 | - | - | 566.7 | - | 523.11 | - | - | 504.58 | - | 553 | - | 533.00 | - | - | - | 541 |
| | 551 | 516 | - | - | 555.7 | - | - | - | - | 503.76 | - | 546 | - | 535.21 | - | - | - | 534 |
| **Mean** | 544 | 528 | - | - | 559.2 | - | 519.99 | - | - | 507.97 | - | 558 | - | 535.45 | - | - | - | 534 |
| **Std. Devn.** | 9.39 | 8.22 | - | - | 9.16 | - | 10.60 | - | - | 5.57 | - | 9.35 | - | 1.94 | - | - | - | 4.52 |
| **% RSD** | 1.73 | 1.56 | - | - | 1.64 | - | 2.04 | - | - | 1.10 | - | 1.67 | - | 0.36 | - | - | - | 0.85 |
| **Ni (%) by 4 Acid digestion Instrumental finish** | | | | | | | | | | | | | | | | | | |
| **ME-2403** | 0.125 | 0.1269 | - | - | - | - | 0.117 | - | - | 0.130 | - | 0.129 | - | 0.122 | - | - | - | 0.124 |
| | 0.125 | 0.1275 | - | - | - | - | 0.121 | - | - | 0.137 | - | 0.125 | - | 0.121 | - | - | - | 0.124 |
| | 0.126 | 0.1291 | - | - | - | - | 0.120 | - | - | 0.133 | - | 0.133 | - | 0.121 | - | - | - | 0.124 |
| | 0.125 | 0.1269 | - | - | - | - | 0.118 | - | - | 0.131 | - | 0.130 | - | 0.121 | - | - | - | 0.125 |
| | 0.127 | 0.1251 | - | - | - | - | 0.114 | - | - | 0.133 | - | 0.132 | - | 0.122 | - | - | - | 0.125 |
| | 0.126 | 0.1272 | - | - | - | - | 0.116 | - | - | 0.132 | - | 0.133 | - | 0.121 | - | - | - | 0.124 |
| | 0.128 | 0.1260 | - | - | - | - | 0.118 | - | - | 0.132 | - | 0.131 | - | 0.121 | - | - | - | 0.123 |
| | 0.125 | 0.1233 | - | - | - | - | 0.121 | - | - | 0.135 | - | 0.128 | - | 0.121 | - | - | - | 0.123 |
| **Mean** | 0.126 | 0.1265 | - | - | - | - | 0.118 | - | - | 0.133 | - | 0.130 | - | 0.121 | - | - | - | 0.124 |
| **Std. Devn.** | 0.00 | 0.00 | - | - | - | - | 0.00 | - | - | 0.00 | - | 0.00 | - | 0.00 | - | - | - | 0.00 |
| **% RSD** | 0.95 | 1.37 | - | - | - | - | 1.93 | - | - | 1.64 | - | 2.08 | - | 0.24 | - | - | - | 0.44 |

## APPENDIX I: Results from round-robin assaying-Continue:

| | Lab 1 | Lab 2 | Lab 4 | Lab 7 | Lab 10 | Lab 13 | Lab 16 |
|---|---|---|---|---|---|---|---|
| | Ca (%) by 4 Acid digestion Instrumental finish | | | | | | |
| ME-2403 | 4.44 | 4.38 | - | 4.18 | 4.085 | 4.48 | 4.41 |
| | 4.45 | 4.41 | - | 4.35 | 4.193 | 4.44 | 4.50 |
| | 4.42 | 4.47 | - | 4.26 | 4.214 | 4.46 | 4.46 |
| | 4.43 | 4.45 | - | 4.20 | 4.148 | 4.39 | 4.46 |
| | 4.46 | 4.43 | - | 4.11 | 4.016 | 4.47 | 4.46 |
| | 4.42 | 4.47 | - | 4.21 | 4.181 | 4.45 | 4.45 |
| | 4.43 | 4.50 | - | 4.20 | 4.293 | 4.47 | 4.48 |
| | 4.42 | 4.42 | - | 4.32 | 4.212 | 4.46 | 4.49 |
| Mean | 4.43 | 4.44 | - | 4.23 | 4.17 | 4.45 | 4.46 |
| Std. Devn. | 0.02 | 0.04 | - | 0.08 | 0.09 | 0.03 | 0.03 |
| % RSD | 0.34 | 0.88 | - | 1.84 | 2.04 | 0.62 | 0.62 |
| | Co (ppm) by 4 Acid digestion Instrumental finish | | | | | | |
| ME-2403 | 79 | 76.5 | 64 | 76.10 | 74.37 | 75.28 | 79.6 |
| | 79 | 76.8 | 62 | 77.33 | 78.11 | 75.44 | 78.8 |
| | 77 | 77.9 | 66 | 75.92 | 76.40 | 76.04 | 78.9 |
| | 79 | 76.7 | 67 | 74.84 | 74.16 | 76.02 | 79.2 |
| | 80 | 75.1 | 68 | 72.93 | 72.14 | 75.17 | 78.1 |
| | 80 | 77.4 | 68 | 74.46 | 75.65 | 75.32 | 78.4 |
| | 80 | 77.7 | 67 | 76.25 | 79.68 | 75.41 | 77.8 |
| | 79 | 74.9 | 64 | 76.97 | 75.76 | 75.04 | 77.8 |
| Mean | 79 | 76.6 | 66 | 75.6 | 75.78 | 75.47 | 78.6 |
| Std. Devn. | 0.99 | 1.12 | 2.19 | 1.45 | 2.36 | 0.37 | 0.66 |
| % RSD | 1.25 | 1.46 | 3.33 | 1.91 | 3.11 | 0.49 | 0.84 |
| | Fe (%) by 4 Acid digestion Instrumental finish | | | | | | |
| ME-2403 | 8.54 | 8.72 | 7.509 | 8.37 | - | 8.25 | 8.58 |
| | 8.53 | 8.75 | 7.614 | 8.70 | - | 8.27 | 8.74 |
| | 8.32 | 8.92 | 7.525 | 8.50 | - | 8.22 | 8.69 |
| | 8.45 | 8.82 | 7.573 | 8.39 | - | 8.28 | 8.71 |
| | 8.42 | 8.79 | 7.508 | 8.16 | - | 8.29 | 8.67 |
| | 8.42 | 8.86 | 7.546 | 8.42 | - | 8.25 | 8.63 |
| | 8.38 | 8.93 | 7.623 | 8.41 | - | 8.26 | 8.68 |
| | 8.36 | 8.78 | 7.581 | 8.59 | - | 8.24 | 8.65 |
| Mean | 8.43 | 8.82 | 7.560 | 8.44 | - | 8.26 | 8.67 |
| Std. Devn. | 0.08 | 0.08 | 0.05 | 0.16 | - | 0.02 | 0.05 |
| % RSD | 0.92 | 0.87 | 0.60 | 1.90 | - | 0.29 | 0.57 |

## APPENDIX I: Results from round-robin assaying-Continue:

| | Lab 1 | Lab 2 | Lab 4 | Lab 7 | Lab 10 | Lab 13 | Lab 16 |
|---|---|---|---|---|---|---|---|
| | Na (%) by 4 Acid digestion Instrumental finish | | | | | | |
| ME-2403 | 1.52 | 1.490 | - | 1.45 | 1.89 | 1.508 | 1.51 |
| | 1.53 | 1.493 | - | 1.47 | 1.95 | 1.506 | 1.52 |
| | 1.53 | 1.509 | - | 1.45 | 1.92 | 1.508 | 1.51 |
| | 1.53 | 1.502 | - | 1.41 | 1.90 | 1.505 | 1.51 |
| | 1.54 | 1.495 | - | 1.46 | 1.82 | 1.511 | 1.51 |
| | 1.55 | 1.505 | - | 1.43 | 1.92 | 1.508 | 1.52 |
| | 1.53 | 1.523 | - | 1.42 | 1.97 | 1.513 | 1.52 |
| | 1.52 | 1.484 | - | 1.41 | 1.91 | 1.512 | 1.52 |
| Mean | 1.53 | 1.500 | - | 1.44 | 1.91 | 1.509 | 1.52 |
| Std. Devn. | 0.01 | 0.01 | - | 0.02 | 0.05 | 0.00 | 0.01 |
| % RSD | 0.66 | 0.82 | - | 1.61 | 2.43 | 0.17 | 0.35 |
| | K (%) by 4 Acid digestion Instrumental finish | | | | | | |
| ME-2403 | 0.31 | 0.313 | - | 0.30 | 0.38 | 0.315 | 0.32 |
| | 0.31 | 0.315 | - | 0.32 | 0.39 | 0.315 | 0.32 |
| | 0.31 | 0.318 | - | 0.31 | 0.38 | 0.316 | 0.33 |
| | 0.31 | 0.317 | - | 0.30 | 0.39 | 0.316 | 0.31 |
| | 0.31 | 0.315 | - | 0.30 | 0.37 | 0.316 | 0.32 |
| | 0.31 | 0.319 | - | 0.30 | 0.37 | 0.316 | 0.32 |
| | 0.31 | 0.322 | - | 0.31 | 0.37 | 0.316 | 0.33 |
| | 0.32 | 0.313 | - | 0.31 | 0.36 | 0.315 | 0.33 |
| Mean | 0.31 | 0.317 | - | 0.31 | 0.38 | 0.32 | 0.32 |
| Std. Devn. | 0.00 | 0.00 | - | 0.01 | 0.01 | 0.00 | 0.01 |
| % RSD | 1.14 | 0.92 | - | 2.43 | 2.78 | 0.17 | 2.19 |
| | Mg (%) by 4 Acid digestion Instrumental finish | | | | | | |
| ME-2403 | 4.67 | 4.630 | - | 4.495 | 4.49 | 4.629 | 4.61 |
| | 4.67 | 4.666 | - | 4.713 | 4.66 | 4.631 | 4.66 |
| | 4.63 | 4.732 | - | 4.623 | 4.63 | 4.632 | 4.64 |
| | 4.64 | 4.697 | - | 4.572 | 4.55 | 4.628 | 4.58 |
| | 4.65 | 4.694 | - | 4.612 | 4.42 | 4.634 | 4.59 |
| | 4.64 | 4.741 | - | 4.566 | 4.62 | 4.623 | 4.62 |
| | 4.64 | 4.765 | - | 4.447 | 4.78 | 4.636 | 4.67 |
| | 4.67 | 4.678 | - | 4.549 | 4.63 | 4.630 | 4.73 |
| Mean | 4.65 | 4.700 | - | 4.572 | 4.6 | 4.630 | 4.64 |
| Std. Devn. | 0.02 | 0.04 | - | 0.08 | 0.11 | 0.00 | 0.05 |
| % RSD | 0.37 | 0.93 | - | 1.77 | 2.41 | 0.09 | 1.05 |
| | Mn (ppm) by 4 Acid digestion Instrumental finish | | | | | | |
| ME-2403 | 915 | 895 | - | 871.7 | - | 888 | 913 |
| | 913 | 901 | - | 909.8 | - | 889 | 923 |
| | 914 | 912 | - | 893.8 | - | 891 | 914 |
| | 923 | 904 | - | 876.3 | - | 887 | 917 |
| | 910 | 902 | - | 901.1 | - | 892 | 914 |
| | 918 | 910 | - | 884.7 | - | 888 | 910 |
| | 914 | 917 | - | 880.8 | - | 892 | 922 |
| | 920 | 895 | - | 897.8 | - | 891 | 918 |
| Mean | 916 | 905 | - | 889.5 | - | 890 | 916 |
| Std. Devn. | 4.19 | 7.95 | - | 13.22 | - | 1.73 | 4.50 |
| % RSD | 0.46 | 0.88 | - | 1.49 | - | 0.19 | 0.49 |

## APPENDIX I: Results from round-robin assaying-Continue:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ME-2403 | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| **Mean** | | | | | | | |
| **Std. Devn.** | | | | | | | |
| **% RSD** | | | | | | | |

**S (%) by 4 Acid digestion Instrumental finish**

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ME-2403 | 541 | 520 | - | - | 557.3 | - | 523.00 | - | - | 506.57 | - | 570 | - | 534.52 | - | - | - | 532 |
| | 533 | 535 | - | - | 572.5 | - | 520.72 | - | - | 510.29 | - | 545 | - | 533.82 | - | - | - | 537 |
| | 531 | 534 | - | - | 545.6 | - | 508.90 | - | - | 516.97 | - | 564 | - | 534.34 | - | - | - | 528 |
| | 559 | 522 | - | - | 568.4 | - | 505.44 | - | - | 508.34 | - | 567 | - | 536.56 | - | - | - | 532 |
| | 550 | 527 | - | - | 556.2 | - | 537.87 | - | - | 499.70 | - | 560 | - | 537.66 | - | - | - | 530 |
| | 541 | 528 | - | - | 551.5 | - | 520.89 | - | - | 513.54 | - | 561 | - | 538.52 | - | - | - | 539 |
| | 544 | 540 | - | - | 566.7 | - | 523.11 | - | - | 504.58 | - | 553 | - | 533.00 | - | - | - | 541 |
| | 551 | 516 | - | - | 555.7 | - | - | - | - | 503.76 | - | 546 | - | 535.21 | - | - | - | 534 |
| **Mean** | 544 | 528 | - | - | 559.2 | - | 519.99 | - | - | 507.97 | - | 558 | - | 535.45 | - | - | - | 534 |
| **Std. Devn.** | 9.39 | 8.22 | - | - | 9.16 | - | 10.60 | - | - | 5.57 | - | 9.35 | - | 1.94 | - | - | - | 4.52 |
| **% RSD** | 1.73 | 1.56 | - | - | 1.64 | - | 2.04 | - | - | 1.10 | - | 1.67 | - | 0.36 | - | - | - | 0.85 |

**Sr (ppm) by 4 Acid digestion Instrumental finish**

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ME-2403 | 257 | 259.17 | - | 259.91 | 264.97 | 264.72 | 267 | 257 | 259.17 | - | 259.91 | 264.97 | 264.72 | 267 | 257 | 259.17 | - | 259.91 |
| | 254 | 259.27 | - | 265.89 | 270.84 | 264.05 | 268 | 254 | 259.27 | - | 265.89 | 270.84 | 264.05 | 268 | 254 | 259.27 | - | 265.89 |
| | 258 | 268.19 | - | 260.90 | 273.14 | 265.71 | 270 | 258 | 268.19 | - | 260.90 | 273.14 | 265.71 | 270 | 258 | 268.19 | - | 260.90 |
| | 260 | 261.46 | - | 257.68 | 266.15 | 264.27 | 268 | 260 | 261.46 | - | 257.68 | 266.15 | 264.27 | 268 | 260 | 261.46 | - | 257.68 |
| | 254 | 259.08 | - | 248.38 | 263.75 | 263.24 | 270 | 254 | 259.08 | - | 248.38 | 263.75 | 263.24 | 270 | 254 | 259.08 | - | 248.38 |
| | 256 | 258.23 | - | 257.28 | 273.52 | 264.87 | 271 | 256 | 258.23 | - | 257.28 | 273.52 | 264.87 | 271 | 256 | 258.23 | - | 257.28 |
| | 258 | 261.50 | - | 260.28 | 283.21 | 268.43 | 274 | 258 | 261.50 | - | 260.28 | 283.21 | 268.43 | 274 | 258 | 261.50 | - | 260.28 |
| | 258 | 256.16 | - | 263.95 | 273.17 | 267.44 | 275 | 258 | 256.16 | - | 263.95 | 273.17 | 267.44 | 275 | 258 | 256.16 | - | 263.95 |
| **Mean** | 257 | 260.38 | - | 259.28 | 271.09 | 265.34 | 270 | 257 | 260.38 | - | 259.28 | 271.09 | 265.34 | 270 | 257 | 260.38 | - | 259.28 |
| **Std. Devn.** | 2.10 | 3.59 | - | 5.28 | 6.29 | 1.77 | 2.88 | 2.10 | 3.59 | - | 5.28 | 6.29 | 1.77 | 2.88 | 2.10 | 3.59 | - | 5.28 |
| **% RSD** | 0.82 | 1.38 | - | 2.04 | 2.32 | 0.67 | 1.06 | 0.82 | 1.38 | - | 2.04 | 2.32 | 0.67 | 1.06 | 0.82 | 1.38 | - | 2.04 |

## APPENDIX I: Results from round-robin assaying-Continue:

| | Lab 1 | Lab 2 | Lab 6 | Lab 7 | Lab 10 | Lab 11 | Lab 16 |
|---|---|---|---|---|---|---|---|
| | Total S (%) LECO | | | | | | |
| ME-2403 | - | 0.63 | 0.62 | 0.62 | 0.618 | 0.62 | 0.69 |
| | - | 0.64 | 0.62 | 0.62 | 0.628 | 0.62 | 0.68 |
| | - | 0.63 | 0.63 | 0.60 | 0.628 | 0.62 | 0.69 |
| | - | 0.62 | 0.67 | 0.60 | 0.630 | 0.62 | 0.69 |
| | - | 0.61 | 0.66 | 0.63 | 0.618 | 0.61 | 0.70 |
| | - | 0.63 | 0.64 | 0.61 | 0.632 | 0.61 | 0.70 |
| | - | 0.63 | 0.64 | 0.63 | 0.634 | 0.62 | 0.70 |
| | - | 0.62 | 0.64 | 0.61 | 0.628 | 0.62 | 0.70 |
| Mean | - | 0.63 | 0.64 | 0.62 | 0.63 | 0.62 | 0.69 |
| Std. Devn. | - | 0.01 | 0.02 | 0.01 | 0.01 | 0.00 | 0.01 |
| % RSD | - | 1.46 | 2.77 | 1.76 | 0.95 | 0.57 | 1.07 |
| | SiO2 (%) XRF | | | | | | |
| ME-2403 | 53.78 | 54.95 | - | 55.0 | 55.68 | 55.16 | - |
| | 53.86 | 55.26 | - | 55.4 | 57.15 | 54.94 | - |
| | 53.82 | 55.24 | - | 55.4 | 57.63 | 55.00 | - |
| | 53.80 | 55.22 | - | 55.4 | 55.51 | 55.22 | - |
| | 53.91 | 54.97 | - | 55.7 | 55.29 | 54.84 | - |
| | 53.90 | 55.14 | - | 56.0 | 56.76 | 54.90 | - |
| | 53.97 | 55.12 | - | 55.2 | 58.19 | 54.98 | - |
| | 53.84 | 55.20 | - | 55.9 | 55.20 | 55.06 | - |
| Mean | 53.86 | 55.14 | - | 55.5 | 56.43 | 55.01 | - |
| Std. Devn. | 0.06 | 0.12 | - | 0.34 | 1.16 | 0.13 | - |
| % RSD | 0.12 | 0.22 | - | 0.62 | 2.05 | 0.23 | - |
| | Al2O3 (%) XRF | | | | | | |
| ME-2403 | 14.02 | 13.39 | - | 13.7 | 13.77 | 13.38 | - |
| | 14.09 | 13.43 | - | 13.6 | 14.12 | 13.31 | - |
| | 14.08 | 13.47 | - | 13.5 | 14.33 | 13.34 | - |
| | 14.13 | 13.43 | - | 13.5 | 13.92 | 13.38 | - |
| | 14.12 | 13.37 | - | 13.7 | 13.69 | 13.33 | - |
| | 14.07 | 13.39 | - | 13.8 | 13.95 | 13.31 | - |
| | 14.05 | 13.46 | - | 13.4 | 14.36 | 13.37 | - |
| | 14.06 | 13.46 | - | 13.8 | 13.73 | 13.29 | - |
| Mean | 14.08 | 13.43 | - | 13.6 | 13.98 | 13.34 | - |
| Std. Devn. | 0.04 | 0.04 | - | 0.15 | 0.26 | 0.03 | - |
| % RSD | 0.26 | 0.28 | - | 1.09 | 1.88 | 0.26 | - |
| | CaO (%) XRF | | | | | | |
| ME-2403 | 6.16 | 6.19 | - | 6.32 | 5.886 | 6.18 | - |
| | 6.18 | 6.21 | - | 6.34 | 5.996 | 6.16 | - |
| | 6.18 | 6.21 | - | 6.36 | 6.096 | 6.16 | - |
| | 6.19 | 6.19 | - | 6.40 | 5.956 | 6.17 | - |
| | 6.18 | 6.22 | - | 6.39 | 5.936 | 6.14 | - |
| | 6.18 | 6.21 | - | 6.45 | 6.126 | 6.16 | - |
| | 6.18 | 6.20 | - | 6.27 | 6.296 | 6.21 | - |
| | 6.18 | 6.21 | - | 6.38 | 6.026 | 6.19 | - |
| Mean | 6.18 | 6.21 | - | 6.36 | 6.039 | 6.17 | - |
| Std. Devn. | 0.01 | 0.01 | - | 0.05 | 0.13 | 0.02 | - |
| % RSD | 0.14 | 0.17 | - | 0.86 | 2.16 | 0.35 | - |

## APPENDIX I: Results from round-robin assaying-Continue:

| | Lab 1 | Lab 2 | Lab 6 | Lab 7 | Lab 10 | Lab 11 | Lab 16 |
|---|---|---|---|---|---|---|---|
| | Fe2O3 (%) XRF | | | | | | |
| ME-2403 | 12.19 | 12.53 | - | 12.4 | 11.926 | 12.37 | - |
| | 12.21 | 12.51 | - | 12.5 | 12.191 | 12.33 | - |
| | 12.18 | 12.51 | - | 12.6 | 12.355 | 12.36 | - |
| | 12.19 | 12.46 | - | 12.7 | 11.762 | 12.36 | - |
| | 12.19 | 12.54 | - | 12.7 | 11.844 | 12.38 | - |
| | 12.20 | 12.47 | - | 12.7 | 12.264 | 12.37 | - |
| | 12.17 | 12.49 | - | 12.4 | 12.774 | 12.34 | - |
| | 12.17 | 12.50 | - | 12.7 | 11.990 | 12.35 | - |
| Mean | 12.19 | 12.50 | - | 12.6 | 12.138 | 12.36 | - |
| Std. Devn. | 0.01 | 0.03 | - | 0.14 | 0.33 | 0.02 | - |
| % RSD | 0.11 | 0.22 | - | 1.08 | 2.72 | 0.14 | - |
| | K2O (%) XRF | | | | | | |
| ME-2403 | 0.36 | 0.38 | - | 0.36 | 0.48 | 0.38 | - |
| | 0.36 | 0.38 | - | 0.37 | 0.49 | 0.38 | - |
| | 0.36 | 0.39 | - | 0.38 | 0.48 | 0.38 | - |
| | 0.36 | 0.39 | - | 0.38 | 0.49 | 0.38 | - |
| | 0.36 | 0.38 | - | 0.38 | 0.46 | 0.38 | - |
| | 0.36 | 0.38 | - | 0.38 | 0.47 | 0.38 | - |
| | 0.36 | 0.38 | - | 0.37 | 0.47 | 0.39 | - |
| | 0.36 | 0.39 | - | 0.37 | 0.46 | 0.38 | - |
| Mean | 0.36 | 0.38 | - | 0.37 | 0.48 | 0.38 | - |
| Std. Devn. | 0.00 | 0.01 | - | 0.01 | 0.01 | 0.00 | - |
| % RSD | 0.00 | 1.35 | - | 1.99 | 2.78 | 0.93 | - |
| | MgO (%) XRF | | | | | | |
| ME-2403 | 7.71 | 7.85 | - | 7.72 | 7.98 | 7.82 | - |
| | 7.72 | 7.85 | - | 7.88 | 8.12 | 7.78 | - |
| | 7.72 | 7.86 | - | 7.80 | 8.25 | 7.80 | - |
| | 7.70 | 7.84 | - | 7.84 | 7.93 | 7.79 | - |
| | 7.73 | 7.87 | - | 7.86 | 7.96 | 7.79 | - |
| | 7.71 | 7.84 | - | 7.96 | 8.11 | 7.82 | - |
| | 7.74 | 7.85 | - | 7.75 | 7.84 | 7.83 | - |
| | 7.72 | 7.87 | - | 7.92 | 8.02 | 7.79 | - |
| Mean | 7.72 | 7.85 | - | 7.84 | 8.03 | 7.80 | - |
| Std. Devn. | 0.01 | 0.01 | - | 0.08 | 0.13 | 0.02 | - |
| % RSD | 0.16 | 0.15 | - | 1.04 | 1.62 | 0.23 | - |
| | MnO (%) XRF | | | | | | |
| ME-2403 | 0.12 | 0.12 | - | 0.13 | 0.12 | - | - |
| | 0.12 | 0.12 | - | 0.12 | 0.13 | - | - |
| | 0.13 | 0.12 | - | 0.13 | 0.13 | - | - |
| | 0.12 | 0.12 | - | 0.13 | 0.12 | - | - |
| | 0.12 | 0.12 | - | 0.13 | 0.12 | - | - |
| | 0.11 | 0.12 | - | 0.13 | 0.12 | - | - |
| | 0.12 | 0.12 | - | 0.12 | 0.13 | - | - |
| | 0.12 | 0.12 | - | 0.13 | 0.12 | - | - |
| Mean | 0.12 | 0.12 | - | 0.13 | 0.12 | - | - |
| Std. Devn. | 0.01 | 0.00 | - | 0.00 | 0.01 | - | - |
| % RSD | 4.45 | 0.00 | - | 3.63 | 4.18 | - | - |

## APPENDIX I: Results from round-robin assaying-Continue:

| | Lab 1 | Lab 2 | Lab 6 | Lab 7 | Lab 10 | Lab 11 | Lab 16 |
|---|---|---|---|---|---|---|---|
| | Na2O (%) XRF | | | | | | |
| ME-2403 | 2.08 | 2.02 | - | 2.01 | - | 1.99 | - |
| | 2.08 | 2.01 | - | 2.06 | - | 1.98 | - |
| | 2.08 | 2.02 | - | 2.05 | - | 1.99 | - |
| | 2.11 | 2.02 | - | 2.04 | - | 1.99 | - |
| | 2.09 | 2.02 | - | 2.11 | - | 1.98 | - |
| | 2.10 | 2.02 | - | 2.10 | - | 1.98 | - |
| | 2.09 | 2.01 | - | 2.01 | - | 1.99 | - |
| | 2.09 | 2.03 | - | 2.10 | - | 2.00 | - |
| **Mean** | 2.09 | 2.02 | - | 2.06 | - | 1.99 | - |
| **Std. Devn.** | 0.01 | 0.01 | - | 0.04 | - | 0.01 | - |
| **% RSD** | | | | | | | |
| | TiO2 (%) XRF | | | | | | |
| ME-2403 | 1.03 | 1.15 | - | 1.14 | - | 1.17 | - |
| | 1.03 | 1.15 | - | 1.18 | - | 1.15 | - |
| | 1.03 | 1.16 | - | 1.17 | - | 1.15 | - |
| | 1.03 | 1.14 | - | 1.19 | - | 1.16 | - |
| | 1.03 | 1.16 | - | 1.17 | - | 1.16 | - |
| | 1.04 | 1.15 | - | 1.19 | - | 1.16 | - |
| | 1.03 | 1.15 | - | 1.16 | - | 1.16 | - |
| | 1.03 | 1.15 | - | 1.18 | - | 1.15 | - |
| **Mean** | 1.03 | 1.15 | - | 1.17 | - | 1.16 | - |
| **Std. Devn.** | 0.00 | 0.01 | - | 0.02 | - | 0.01 | - |
| **% RSD** | 0.34 | 0.56 | - | 1.42 | - | 0.61 | - |

**Notes: Highlighted assay results were removed for failing the t-test.**

## APPENDIX II:

**Participating Laboratories:** (not in same order as table of assays)

| | |
|---|---|
| AGAT Labs, Calgary, Canada | MSA Singida Mine |
| Couer Mexicana S.A de C.V Laboratorio Químico, Mexico | MSA Bulyanhulu, Tanzania |
| Impala Terminals, Peru | MSA Yamoussoukro Côte d'Ivoire |
| Intertek Perth, Australia | Newlyn Lab Services, South Africa |
| Intertek Mineral Tarkwa Ghana | Dallaglio Pickstone Peerless Laboratory, Zimbabwe |
| Jinning Testing and Inspection, Maddington, Australia | SGS Geosol Laboratories Ltd. Brazil |
| MSA Egypt Ltd. | SGS Lakefield, ON, Canada |
| MSALABS Guyana Inc. | SGS Burnaby, BC Canada |
| MSA Langley | Shiva Analytical India |
| MSA Mauritania | Skyline Assayers and Labs, Az, USA |

## APPENDIX III: QAQC

**The table below illustrates percentages of over size (+200 mesh) material in CDN-ME-2403**

| Standard | Study Date | Total weight Screened (g) | Total weight Over size (g) | Percentage |
|---|---|---|---|---|
| ME-2403 | 7/2/2024 | 300 | 3.5 | 1.2% |
| | 7/2/2024 | 300 | 4 | 1.3% |
| | 7/2/2024 | 300 | 4.5 | 1.5% |

## APPENDIX IV: Statistics for Uncertified Elements

| Analytes | Generic Method | Number of results | Mean | Standard Deviation | RSD % | Unit |
|---|---|---|---|---|---|---|
| $Cr_2O_3$ | Fusion | 24 | 0.07 | 0.01 | 9 | % |
| $P_2O_5$ | | 24 | 0.1 | 0.02 | 16 | |
| LOI | | 24 | 0.4 | 0.18 | 42 | |
| Ag | 4 Acid digestion Instrumental finish | 64 | 5.5 | 0.5 | 9 | ppm |
| Al (%) | | 40 | 7.1 | 0.5 | 8 | |
| As | | 40 | 60.4 | 6.9 | 11 | |
| Ba | | 48 | 323.0 | 7.5 | 2 | |
| Be | | 24 | 0.4 | 0.1 | 17 | |
| Bi | | 40 | 3.4 | 0.6 | 17 | |
| Cd | | 48 | 4.4 | 1 | 23 | |
| Ce | | 40 | 13.3 | 1 | 7 | |
| Cr | | 56 | 362.2 | 56.3 | 8 | |
| Cs | | 24 | 0.7 | 0.1 | 10 | |
| Ga | | 48 | 15 | 2 | 15 | |
| La | | 48 | 6.5 | 1 | 13 | |
| Li | | 48 | 8.4 | 2.2 | 26 | |
| Nb | | 40 | 5 | 1 | 20 | |
| P | | 32 | 443 | 34 | 8 | |
| Rb | | 40 | 11 | 2.5 | 22 | |
| Sb | | 48 | 22 | 6 | 28 | |
| Sc | | 48 | 8.5 | 0.6 | 7 | |
| Se | | 24 | 5 | 0.5 | 11 | |
| Sn | | 24 | 3.7 | 0.6 | 15 | |
| Ta | | 32 | 0.5 | 0.2 | 40 | |
| Th | | 40 | 1.5 | 0.7 | 42 | |
| Tl | | 40 | 0.4 | 0.1 | 15 | |
| U | | 40 | 0.4 | 0.1 | 24 | |
| V | | 48 | 97 | 7 | 7 | |
| W | | 40 | 4.0 | 1 | 23 | |
| Y | | 40 | 7.0 | 0.6 | 8 | |
| Zr | | 40 | 50 | 9 | 19 | |
| Al | Aqua Regia digestion- Instrumental finish | 24 | 2.4 | 0.5 | 22 | % |
| Ca | | 24 | 1.5 | 0.3 | 21 | |
| Fe | | 32 | 7 | 0.5 | 6 | |
| K | | 24 | 0.2 | 0.00 | 2 | |
| S | | 24 | 0.6 | 0.02 | 3 | |
| Ag | | 32 | 3.4 | 0.5 | 14 | ppm |
| As | | 32 | 51.1 | 3.5 | 7 | |
| Ba | | 24 | 207 | 20 | 10 | |
| Cd | | 24 | 4.9 | 1.2 | 24 | |
| Ce | | 16 | 7.6 | 0.5 | 6 | |
| Co | | 32 | 67.8 | 4.2 | 6 | |
| Cr | | 24 | 287.2 | 18.0 | 6 | |
| Cs | | 16 | 0.6 | 0.1 | 13 | |
| La | | 24 | 3.6 | 0.3 | 10 | |
| Mo | | 24 | 21 | 0.5 | 2 | |
| Pb | | 24 | 180 | 5 | 3 | |
| Zn | | 24 | 507 | 14.5 | 3 | |
| Ni | | 32 | 0.12 | 0.01 | 7.4 | |


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## APPENDIX V: General Notes

### Intended Use

This Certified Reference Material, fits for use as a control sample in routine assay laboratory quality control when inserted within runs of test samples and measured in parallel to test samples. This material can also be used for method development, use as independent calibration verification check standard or for validation of accuracy in a method validation exercise.

This CRM can also be used to assess inter-laboratory or instrument bias and establish within-laboratory precision and within-laboratory reproducibility. The certified concentrations and expanded uncertainty for this material are property values based on an inter-laboratory measurement campaign and reflect consensus results from the laboratories that took part in the exercise.

### Handling

Do not use the product if the seal is broken or there are any signs of contamination.

The material is packaged in either Tin Tie envelopes, foil envelopes or jars that must be shaken before use.

### Storage information

The material should be stored in a dry place, in such a way that it does not compromise the integrity of the CRM. The material should be stored in conditions which will ensure it does not absorb moisture.

The certificate is not valid if re-packaged by a third party.

### Metrological Traceability

The values quoted herein are based on the consensus values derived from statistical analysis of the data from an inter-laboratory measurement program. Traceability to SI units is via the standards used by the individual laboratories, all of which are accredited to the ISO17025 general requirements for the competence of testing and calibration laboratories and who have maintained measurement traceability during the analytical process.

### Period of Validity

The certified values are valid for this product, while still sealed in its original packaging, until notification to the contrary. The material's stability will undergo regular testing every five years throughout its inventory duration. Should product stability become an issue, all customers will be notified and notification to that effect will be placed on the http://www.cdnlabs.com/ website.

### Minimum Sample Size

Most of the laboratory's reporting used a 0.5g sample size for the ICP and a 30g sample size for the fire assay. Our certified gold values are based on 30 g Fire Assay determinations. For optimal results, we strongly recommend you assay our standards with similar methods using "at least" 30g of material. Using a smaller sample weight may result in erratic values. These are the recommended minimum sample sizes for the use of this material.