

CDN Resource Laboratories Ltd.

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Certificate of Analysis

REFERENCE MATERIAL: CDN-CM-58

Recommended values and the “Between Lab” Two Standard Deviations

| | | | | | |
|------------|-----------|---|-----------|-----------------------------------|-----------------|
| Gold | 4.516 gpt | ± | 0.283 gpt | 30 g Fire Assay, ICP or AA finish | Certified value |
| Silver | 116 ppm | ± | 11 ppm | Fire Assay, gravimetric finish | Certified value |
| Silver | 116 ppm | ± | 6 ppm | 4 Acid digestion / ICP finish | Certified value |
| Silver | 115 ppm | ± | 7 ppm | Aqua regia digestion / ICP finish | Certified value |
| Copper | 0.821 % | ± | 0.038 % | 4 Acid digestion / ICP finish | Certified value |
| Copper | 0.819 % | ± | 0.027 % | Aqua regia digestion / ICP finish | Certified value |
| Molybdenum | 0.106 % | ± | 0.007 % | 4 Acid digestion / ICP finish | Certified value |
| Molybdenum | 0.104 % | ± | 0.005 % | Aqua regia digestion / ICP finish | Certified value |

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.

PREPARED BY: CDN Resource Laboratories Ltd.
CERTIFIED BY: Ali Alizadeh, MSc, MBA, P Geo
INDEPENDENT GEOCHEMIST: Dr. Barry Smee., Ph.D., FGC
DATE OF CERTIFICATION: June 3rd, 2024

ORIGIN OF REFERENCE MATERIAL:

Standard CDN-CM-58 was prepared by mixing various porphyry mineralization ores.

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 sent to 15 commercial laboratories for round robin assaying.

Assay Procedures:

Au: 30 gr. fire assay pre-concentration, AA or ICP finish.
Ag: Fire assay pre-concentration, gravimetric finish.
Ag, Cu, Mo: 4-acid digestion, AA or ICP finish.
Ag, Cu, Mo: Aqua regia digestion, AA or ICP finish.

Statistical Procedures:

The final limits were calculated after first determining if all data was compatible within a spread normally expected for similar analytical methods done by reputable laboratories. Data from any one laboratory was removed from further calculations when the mean of all analyses from that laboratory failed a t 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 data base. 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: After completion of homogenization, three samples, 300g each of homogenized material was randomly collected and was re-screened by a testing sieve. Over size material of this standard and based on CDN's screening test was ~%1.0.

Homogeneity Test:

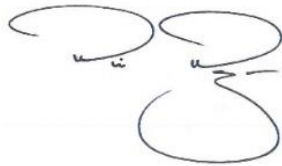
15 samples were selected selectively throughout the batch and were sent to an independent assay Laboratories for Homogeneity testing following directions of Annex B, Homogeneity and Stability of proficiency test items, ISO 13528:2015 Guidelines.

Assay results went through a statistical work-up by checking the mean, standard deviation, and %RSD. Based on performed statistical works outlined by ISO 13528; CDN-CM-58 is statistically homogenized (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



Ali Alizadeh, MSc, MBA, P.Geo.

Geochemist



Dr. Barry Smee, PhD, FGC

APPENDIX I:

Whole rock analysis and 30 element ICP analysis (4-acid digestion) were also conducted on 3 samples.

APPROXIMATE CHEMICAL COMPOSITION (by whole rock analysis):

| Analyte | Percent | Analyte | Percent |
|--------------------------------|------------|-------------------|------------|
| SiO ₂ | 58.5 | Na ₂ O | 1.4 |
| Al ₂ O ₃ | 9.9 | MgO | 3.2 |
| Fe ₂ O ₃ | 9.5 | K ₂ O | 1.7 |
| CaO | 4.4 | TiO ₂ | 0.4 |
| MnO | 0.2 | LOI | 6.2 |
| Total S | 4.8 | Total C | 0.7 |

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

| | |
|---|---------------------------------------|
| Activation Labs, Ancaster, Ontario, Canada | Bureau Veritas, Perth, Australia |
| Activation Labs, Thunder Bay, Ontario, Canada | Bureau Veritas, Vancouver, BC, Canada |
| ALS, Brisbane, Australia | Certimin S.A., Lima, Peru |
| ALS, Perth, Australia | MS Analytical, Langley, BC, Canada |
| ALS Lima, Peru | SGS Lakefield, ON, Canada |
| ALS, Loughrea, Ireland | SGS, Vancouver, BC, Canada |
| ALS, Johannesburg, South Africa | Skyline Assayers, Tucson, AZ, USA |
| ALS Canada, North Vancouver, BC, Canada | |

APPENDIX II: Results from round-robin assaying:

| Sample | 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 |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| Au (g/t) by Fire Assay, 30g sample size and Instrumental finish | | | | | | | | | | | | | | | |
| CM-58 | 4.275 | 4.677 | 4.68 | 4.10 | 4.80 | 4.46 | 4.36 | 4.26 | 4.50 | 4.455 | 4.414 | 4.312 | 4.67 | 4.77 | 4.359 |
| | 4.290 | 4.911 | 4.69 | 4.13 | 4.62 | 4.56 | 4.42 | 4.40 | 4.54 | 4.589 | 4.645 | 4.444 | 4.64 | 4.72 | 4.342 |
| | 4.174 | 4.754 | 4.45 | 4.30 | 4.50 | 4.52 | 4.46 | 4.63 | 4.51 | 4.664 | 4.633 | 4.383 | 4.54 | 4.71 | 4.579 |
| | 4.279 | 4.309 | 4.43 | 4.17 | 4.40 | 4.62 | 4.45 | 4.41 | 4.49 | 4.513 | 4.614 | 4.558 | 4.64 | 4.65 | 4.396 |
| | 4.164 | 4.510 | 4.42 | 4.18 | 4.35 | 4.59 | 4.67 | 4.56 | 4.33 | 4.573 | 4.387 | 4.580 | 4.53 | 4.50 | 4.399 |
| | 4.311 | 4.589 | 4.58 | 4.25 | 4.72 | 4.59 | 4.42 | 4.61 | 4.60 | 4.308 | 4.517 | 4.526 | 4.47 | 4.62 | 4.624 |
| | 4.365 | 4.611 | 4.50 | 4.36 | 4.58 | 4.60 | 4.49 | 4.67 | 4.37 | 4.638 | 4.468 | 4.284 | 4.78 | 4.74 | 4.823 |
| | 4.451 | 4.723 | 4.64 | 4.59 | 4.66 | 4.69 | 4.56 | 4.40 | 4.55 | 4.307 | 4.488 | 4.425 | 4.65 | 4.53 | 4.423 |
| | 4.344 | 4.705 | 4.80 | 4.20 | 4.54 | 4.43 | 4.57 | 4.33 | 4.40 | 4.649 | 4.633 | 4.408 | 4.44 | 4.96 | 4.778 |
| | 4.228 | 4.682 | 4.47 | 4.48 | 4.33 | 4.66 | 4.52 | 4.39 | 4.49 | 4.527 | 4.465 | 4.341 | 4.66 | 4.60 | 4.363 |
| Mean | 4.288 | 4.647 | 4.566 | 4.28 | 4.55 | 4.57 | 4.49 | 4.466 | 4.48 | 4.522 | 4.526 | 4.426 | 4.60 | 4.68 | 4.509 |
| Std. Devn. | 0.09 | 0.16 | 0.13 | 0.16 | 0.16 | 0.08 | 0.09 | 0.14 | 0.09 | 0.13 | 0.10 | 0.10 | 0.10 | 0.13 | 0.18 |
| % RSD | 2.03 | 3.44 | 2.88 | 3.71 | 3.46 | 1.80 | 2.02 | 3.14 | 1.90 | 2.89 | 2.15 | 2.31 | 2.26 | 2.83 | 4.00 |
| Ag (g/t) by Fire Assay and gravimetric finish | | | | | | | | | | | | | | | |
| CM-58 | 121 | 122 | - | 111 | - | 112 | - | 119 | 110 | 111 | 122 | 105 | 110 | 116 | 118 |
| | 109 | 112 | - | 110 | - | 116 | - | 121 | 110 | 111 | 124 | 118 | 101 | 116 | 118 |
| | 120 | 112 | - | 111 | - | 112 | - | 119 | 109 | 120 | 120 | 107 | 111 | 119 | 123 |
| | 124 | 113 | - | 112 | - | 113 | - | 123 | 110 | 121 | 123 | 112 | 122 | 117 | 118 |
| | 124 | 109 | - | 109 | - | 115 | - | 118 | 110 | 113 | 123 | 111 | 115 | 122 | 120 |
| | 121 | 115 | - | 108 | - | 118 | - | 123 | 108 | 122 | 123 | 106 | 119 | 115 | 125 |
| | 126 | 114 | - | 119 | - | 121 | - | 121 | 108 | 111 | 122 | 112 | 120 | 114 | 118 |
| | 126 | 114 | - | 107 | - | 118 | - | 124 | 108 | 115 | 126 | 116 | 118 | 116 | 113 |
| | 126 | 117 | - | 108 | - | 115 | - | 124 | 106 | 119 | 123 | 118 | 122 | 123 | 115 |
| | 127 | 114 | - | 107 | - | 114 | - | 123 | 106 | 113 | 123 | 114 | 110 | 118 | 115 |
| Mean | 122 | 114 | - | 110 | - | 115 | - | 122 | 109 | 116 | 123 | 112 | 115 | 118 | 118 |
| Std. Devn. | 5.32 | 3.46 | - | 3.55 | - | 2.91 | - | 2.22 | 1.581 | 4.45 | 1.52 | 4.75 | 6.75 | 2.95 | 3.65 |
| % RSD | 4.34 | 3.03 | - | 3.22 | - | 2.52 | - | 1.83 | 1.457 | 3.85 | 1.24 | 4.24 | 5.88 | 2.51 | 3.09 |
| Ag (g/t) by 4 Acid digestion /ICP finish | | | | | | | | | | | | | | | |
| CM-58 | 122 | 116 | 123 | 124 | 119 | 117 | 110 | 114 | 110 | 116 | 117 | 116 | 116 | 108 | 118 |
| | 118 | 119 | 125 | 115 | 117 | 117 | 113 | 110 | 114 | 116 | 117 | 114 | 115 | 114 | 118 |
| | 116 | 117 | 125 | 115 | 113 | 115 | 112 | 116 | 111 | 113 | 118 | 125 | 119 | 112 | 123 |
| | 118 | 121 | 123 | 117 | 116 | 114 | 118 | 115 | 114 | 112 | 122 | 118 | 123 | 113 | 118 |
| | 118 | 119 | 119 | 115 | 117 | 119 | 116 | 114 | 111 | 113 | 115 | 116 | 115 | 113 | 120 |
| | 114 | 119 | 121 | 115 | 114 | 118 | 113 | 115 | 112 | 110 | 117 | 122 | 119 | 110 | 125 |
| | 117 | 120 | 118 | 114 | 114 | 116 | 114 | 114 | 114 | 110 | 118 | 118 | 116 | 116 | 118 |
| | 121 | 118 | 120 | 113 | 111 | 115 | 112 | 122 | 117 | 111 | 115 | 120 | 116 | 112 | 113 |
| | 117 | 126 | 123 | 115 | 120 | 118 | 114 | 117 | 111 | 111 | 119 | 115 | 116 | 113 | 115 |
| | 117 | 121 | 125 | 117 | 119 | 113 | 117 | 115 | 113 | 112 | 116 | 116 | 123 | 111 | 115 |
| Mean | 118 | 120 | 122 | 116 | 116 | 116 | 114 | 115 | 113 | 112 | 117 | 118 | 118 | 112 | 118 |
| Std. Devn. | 2.300 | 2.757 | 2.573 | 3.055 | 2.944 | 1.932 | 2.470 | 3.011 | 2.111 | 2.171 | 2.066 | 3.432 | 3.084 | 2.201 | 3.653 |
| % RSD | 1.952 | 2.305 | 2.106 | 2.634 | 2.538 | 1.663 | 2.168 | 2.614 | 1.873 | 1.931 | 1.759 | 2.908 | 2.618 | 1.962 | 3.088 |

| Ag (g/t) by Aqua Regia digestion /ICP finish | | | | | | | | | | | | | | | |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| CM-58 | 119 | 121 | 119 | 111 | 117 | 116 | 117 | 113 | 108 | 113 | 115 | 112 | 110 | 108 | 108.3 |
| | 123 | 116 | 117 | 111 | 117 | 114 | 115 | 115 | 107 | 115 | 120 | 113 | 120 | 109 | 111.6 |
| | 116 | 118 | 115 | 112 | 116 | 113 | 120 | 115 | 106 | 116 | 121 | 112 | 120 | 109 | 108.2 |
| | 124 | 117 | 116 | 111 | 116 | 115 | 117 | 119 | 106 | 113 | 116 | 113 | 120 | 108 | 111.6 |
| | 120 | 118 | 113 | 112 | 116 | 117 | 118 | 114 | 107 | 117 | 116 | 115 | 110 | 110 | 110.1 |
| | 121 | 120 | 114 | 110 | 116 | 113 | 118 | 114 | 105 | 115 | 113 | 112 | 120 | 109 | 109.8 |
| | 119 | 120 | 119 | 113 | 114 | 115 | 119 | 118 | 106 | 115 | 124 | 112 | 120 | 107 | 108.0 |
| | 116 | 119 | 116 | 115 | 114 | 114 | 114 | 116 | 107 | 117 | 117 | 116 | 120 | 106 | 110.0 |
| | 119 | 120 | 117 | 114 | 110 | 114 | 122 | 115 | 107 | 116 | 120 | 114 | 110 | 110 | 111.6 |
| | 121 | 118 | 124 | 111 | 114 | 114 | 119 | 112 | 108 | 116 | 115 | 112 | 110 | 108 | 109.6 |
| Mean | 120 | 119 | 117 | 112 | 115 | 115 | 118 | 115 | 107 | 115 | 118 | 113 | 116 | 108 | 108.0 |
| Std. Devn. | 2.62 | 1.57 | 3.13 | 1.56 | 2.11 | 1.27 | 2.33 | 2.13 | 0.949 | 1.42 | 3.40 | 1.45 | 5.16 | 1.26 | 1.41 |
| % RSD | 2.18 | 1.32 | 2.67 | 1.40 | 1.83 | 1.11 | 1.98 | 1.85 | 0.889 | 1.23 | 2.89 | 1.28 | 4.45 | 1.17 | 1.30 |
| Cu (%) by 4 Acid digestion Instrumental finish | | | | | | | | | | | | | | | |
| CM-58 | 0.82 | 0.82 | 0.853 | 0.827 | 0.818 | 0.815 | 0.816 | 0.804 | 0.821 | 0.804 | 0.83 | 0.802 | 0.84 | 0.787 | 0.76863 |
| | 0.81 | 0.82 | 0.847 | 0.834 | 0.799 | 0.789 | 0.822 | 0.805 | 0.835 | 0.800 | 0.86 | 0.806 | 0.83 | 0.791 | 0.76901 |
| | 0.84 | 0.84 | 0.850 | 0.827 | 0.787 | 0.824 | 0.827 | 0.809 | 0.833 | 0.801 | 0.84 | 0.798 | 0.84 | 0.792 | 0.76866 |
| | 0.83 | 0.82 | 0.844 | 0.823 | 0.806 | 0.800 | 0.841 | 0.808 | 0.848 | 0.801 | 0.83 | 0.804 | 0.86 | 0.793 | 0.77921 |
| | 0.84 | 0.79 | 0.826 | 0.825 | 0.827 | 0.801 | 0.837 | 0.803 | 0.849 | 0.801 | 0.86 | 0.816 | 0.85 | 0.801 | 0.76791 |
| | 0.80 | 0.82 | 0.834 | 0.821 | 0.785 | 0.795 | 0.824 | 0.806 | 0.853 | 0.780 | 0.83 | 0.828 | 0.85 | 0.794 | 0.76992 |
| | 0.81 | 0.82 | 0.841 | 0.834 | 0.791 | 0.809 | 0.850 | 0.805 | 0.839 | 0.798 | 0.82 | 0.841 | 0.85 | 0.796 | 0.77024 |
| | 0.80 | 0.82 | 0.844 | 0.826 | 0.791 | 0.799 | 0.847 | 0.817 | 0.824 | 0.820 | 0.84 | 0.837 | 0.83 | 0.795 | 0.76748 |
| | 0.81 | 0.83 | 0.847 | 0.821 | 0.812 | 0.829 | 0.852 | 0.818 | 0.822 | 0.809 | 0.85 | 0.819 | 0.83 | 0.780 | 0.76709 |
| | 0.81 | 0.82 | 0.842 | 0.827 | 0.816 | 0.807 | 0.812 | 0.816 | 0.827 | 0.816 | 0.84 | 0.822 | 0.87 | 0.793 | 0.77357 |
| Mean | 0.82 | 0.82 | 0.843 | 0.827 | 0.803 | 0.807 | 0.833 | 0.809 | 0.835 | 0.803 | 0.84 | 0.817 | 0.85 | 0.792 | 0.77017 |
| Std. Devn. | 0.01 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.012 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.00 |
| % RSD | 1.83 | 1.52 | 0.93 | 0.55 | 1.83 | 1.58 | 1.74 | 0.71 | 1.416 | 1.36 | 1.59 | 1.82 | 1.60 | 0.71 | 0.48 |
| Cu (%) by Aqua Regia digestion /ICP finish | | | | | | | | | | | | | | | |
| CM-58 | 0.796 | 0.808 | 0.834 | 0.823 | 0.827 | 0.841 | 0.851 | 0.831 | 0.811 | 0.805 | 0.83 | 0.808 | 0.790 | 0.805 | 0.82808 |
| | 0.799 | 0.802 | 0.827 | 0.829 | 0.827 | 0.836 | 0.834 | 0.839 | 0.833 | 0.806 | 0.84 | 0.791 | 0.800 | 0.820 | 0.82853 |
| | 0.808 | 0.798 | 0.841 | 0.825 | 0.818 | 0.837 | 0.826 | 0.831 | 0.798 | 0.816 | 0.83 | 0.807 | 0.810 | 0.809 | 0.82550 |
| | 0.792 | 0.806 | 0.843 | 0.819 | 0.828 | 0.830 | 0.828 | 0.833 | 0.811 | 0.801 | 0.83 | 0.818 | 0.800 | 0.806 | 0.82415 |
| | 0.802 | 0.800 | 0.834 | 0.847 | 0.828 | 0.835 | 0.821 | 0.835 | 0.800 | 0.811 | 0.85 | 0.812 | 0.780 | 0.817 | 0.82427 |
| | 0.806 | 0.802 | 0.834 | 0.827 | 0.811 | 0.826 | 0.809 | 0.834 | 0.827 | 0.814 | 0.83 | 0.823 | 0.810 | 0.807 | 0.82939 |
| | 0.810 | 0.803 | 0.837 | 0.829 | 0.821 | 0.832 | 0.818 | 0.828 | 0.794 | 0.804 | 0.84 | 0.818 | 0.800 | 0.798 | 0.83059 |
| | 0.813 | 0.805 | 0.834 | 0.829 | 0.813 | 0.829 | 0.783 | 0.824 | 0.801 | 0.797 | 0.84 | 0.817 | 0.810 | 0.806 | 0.83082 |
| | 0.810 | 0.802 | 0.837 | 0.826 | 0.809 | 0.828 | 0.821 | 0.826 | 0.809 | 0.814 | 0.84 | 0.821 | 0.810 | 0.822 | 0.83090 |
| | 0.808 | 0.806 | 0.838 | 0.826 | 0.807 | 0.834 | 0.811 | 0.830 | 0.812 | 0.813 | 0.84 | 0.816 | 0.750 | 0.814 | 0.82519 |
| Mean | 0.804 | 0.803 | 0.836 | 0.828 | 0.819 | 0.833 | 0.820 | 0.831 | 0.810 | 0.808 | 0.84 | 0.813 | 0.796 | 0.810 | 0.82774 |
| Std. Devn. | 0.007 | 0.003 | 0.004 | 0.007 | 0.008 | 0.005 | 0.018 | 0.004 | 0.012 | 0.006 | 0.007 | 0.009 | 0.019 | 0.008 | 0.003 |
| % RSD | 0.854 | 0.379 | 0.530 | 0.889 | 1.029 | 0.557 | 2.163 | 0.533 | 1.543 | 0.792 | 0.806 | 1.149 | 2.384 | 0.937 | 0.331 |

| Sample | 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 |
|---|---|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| | Mo (%) by 4 Acid digestion Instrumental finish | | | | | | | | | | | | | | |
| CM-58 | 0.107 | 0.105 | 0.110 | 0.099 | 0.107 | 0.111 | 0.101 | 0.105 | 0.109 | 0.103 | 0.11 | 0.112 | 0.108 | 0.108 | >DTL |
| | 0.105 | 0.102 | 0.109 | 0.101 | 0.104 | 0.106 | 0.102 | 0.104 | 0.113 | 0.102 | 0.11 | 0.112 | 0.108 | 0.110 | >DTL |
| | 0.105 | 0.106 | 0.109 | 0.100 | 0.102 | 0.110 | 0.103 | 0.106 | 0.112 | 0.100 | 0.11 | 0.113 | 0.109 | 0.108 | >DTL |
| | 0.106 | 0.104 | 0.108 | 0.100 | 0.104 | 0.107 | 0.103 | 0.105 | 0.113 | 0.101 | 0.11 | 0.114 | 0.111 | 0.109 | >DTL |
| | 0.105 | 0.105 | 0.108 | 0.100 | 0.107 | 0.108 | 0.102 | 0.103 | 0.112 | 0.101 | 0.11 | 0.116 | 0.111 | 0.107 | >DTL |
| | 0.104 | 0.103 | 0.108 | 0.101 | 0.102 | 0.109 | 0.102 | 0.106 | 0.112 | 0.099 | 0.11 | 0.117 | 0.111 | 0.107 | >DTL |
| | 0.106 | 0.107 | 0.109 | 0.102 | 0.103 | 0.109 | 0.103 | 0.107 | 0.110 | 0.101 | 0.11 | 0.118 | 0.111 | 0.108 | >DTL |
| | 0.104 | 0.108 | 0.109 | 0.103 | 0.101 | 0.109 | 0.102 | 0.107 | 0.108 | 0.103 | 0.11 | 0.117 | 0.108 | 0.107 | >DTL |
| | 0.106 | 0.108 | 0.109 | 0.100 | 0.108 | 0.108 | 0.106 | 0.108 | 0.110 | 0.102 | 0.11 | 0.117 | 0.107 | 0.110 | >DTL |
| 0.104 | 0.108 | 0.108 | 0.098 | 0.105 | 0.107 | 0.105 | 0.107 | 0.112 | 0.101 | 0.11 | 0.115 | 0.114 | 0.108 | >DTL | |
| Mean | 0.105 | 0.106 | 0.109 | 0.100 | 0.104 | 0.108 | 0.103 | 0.106 | 0.111 | 0.101 | 0.11 | 0.115 | 0.110 | 0.108 | - |
| Std. Devn. | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.002 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | - |
| % RSD | 0.98 | 2.06 | 0.62 | 1.42 | 2.31 | 1.39 | 1.48 | 1.46 | 1.556 | 1.24 | 0.00 | 1.94 | 1.96 | 1.05 | - |
| Mo (%) by Aqua Regia digestion /ICP finish | | | | | | | | | | | | | | | |
| CM-58 | 0.105 | 0.107 | 0.107 | 0.103 | 0.107 | 0.106 | 0.102 | 0.102 | 0.104 | 0.104 | 0.100 | 0.10 | 0.106 | 0.104 | >DTL |
| | 0.104 | 0.102 | 0.106 | 0.105 | 0.107 | 0.106 | 0.101 | 0.102 | 0.105 | 0.105 | 0.100 | 0.10 | 0.108 | 0.106 | >DTL |
| | 0.107 | 0.105 | 0.107 | 0.104 | 0.106 | 0.106 | 0.104 | 0.102 | 0.103 | 0.105 | 0.100 | 0.10 | 0.109 | 0.099 | >DTL |
| | 0.104 | 0.108 | 0.107 | 0.104 | 0.107 | 0.106 | 0.104 | 0.101 | 0.103 | 0.104 | 0.100 | 0.10 | 0.109 | 0.099 | >DTL |
| | 0.108 | 0.110 | 0.107 | 0.106 | 0.107 | 0.106 | 0.103 | 0.102 | 0.105 | 0.105 | 0.100 | 0.10 | 0.107 | 0.102 | >DTL |
| | 0.105 | 0.104 | 0.107 | 0.106 | 0.105 | 0.105 | 0.102 | 0.101 | 0.105 | 0.106 | 0.100 | 0.10 | 0.111 | 0.105 | >DTL |
| | 0.106 | 0.106 | 0.106 | 0.106 | 0.105 | 0.105 | 0.102 | 0.101 | 0.105 | 0.104 | 0.100 | 0.10 | 0.109 | 0.101 | >DTL |
| | 0.106 | 0.108 | 0.106 | 0.105 | 0.106 | 0.108 | 0.098 | 0.102 | 0.105 | 0.105 | 0.100 | 0.10 | 0.110 | 0.100 | >DTL |
| | 0.106 | 0.105 | 0.106 | 0.105 | 0.104 | 0.106 | 0.102 | 0.101 | 0.105 | 0.105 | 0.110 | 0.10 | 0.110 | 0.103 | >DTL |
| 0.106 | 0.109 | 0.107 | 0.106 | 0.104 | 0.107 | 0.100 | 0.102 | 0.108 | 0.105 | 0.100 | 0.10 | 0.102 | 0.101 | >DTL | |
| Mean | 0.106 | 0.106 | 0.107 | 0.105 | 0.106 | 0.106 | 0.102 | 0.102 | 0.105 | 0.105 | 0.101 | 0.10 | 0.108 | 0.102 | - |
| Std. Devn. | 0.001 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.002 | 0.001 | 0.001 | 0.001 | 0.003 | 0.001 | 0.003 | 0.002 | - |
| % RSD | 1.184 | 2.311 | 0.484 | 1.004 | 1.162 | 0.825 | 1.781 | 0.508 | 1.334 | 0.603 | 3.131 | 0.957 | 2.406 | 2.309 | - |

Notes:

Ag results assayed by Aqua Regia digestion with ICP finish from Lab 9 were removed for failing the t test.

Cu results assayed by 4 Acid digestion with ICP finish from Lab 15 were removed for failing the t test.

Mo results assayed by 4 Acid digestion with instrumental finish from Lab 12 were removed for failing the t test.

APPENDIX III: QAQC

Table below illustrates percentages of over size (+275 mesh) material in CDN-CM-58

| Standard | Study Date | Total weight Screened (g) | Total weight Over size (g) | Percentage |
|----------|------------|---------------------------|----------------------------|------------|
| CM-58 | 2/7/2024 | 300 | 4.5 | 1.5% |
| | 2/7/2024 | 300 | 5 | 1.7% |
| | 2/7/2024 | 300 | 5 | 1.7% |

Table below shows homogeneity test results of CDN-CM-58

| CM-58 | Au Original | Au Repeat | Between Sample Variance Wt | Sample Avg. Xt | Stdev of Sample Avg | Within-Sample Std. |
|-----------------------------|---|-----------|-------------------------------|-------------------|---------------------|--------------------|
| | 4.24 | 4.61 | 0.370 | 4.425 | 0.000 | 0.137 |
| | 4.43 | 4.41 | 0.020 | 4.420 | 0.000 | 0.000 |
| | 4.45 | 4.55 | 0.100 | 4.500 | 0.008 | 0.010 |
| | 4.46 | 4.55 | 0.090 | 4.505 | 0.009 | 0.008 |
| | 4.28 | 4.45 | 0.170 | 4.365 | 0.002 | 0.029 |
| | 4.42 | 4.15 | 0.270 | 4.285 | 0.016 | 0.073 |
| | 4.25 | 4.42 | 0.170 | 4.335 | 0.006 | 0.029 |
| | 4.59 | 4.35 | 0.240 | 4.470 | 0.003 | 0.058 |
| | 4.22 | 4.41 | 0.190 | 4.315 | 0.009 | 0.036 |
| | 4.67 | 4.26 | 0.410 | 4.465 | 0.003 | 0.168 |
| | 4.44 | 4.28 | 0.160 | 4.360 | 0.003 | 0.026 |
| | 4.53 | 4.40 | 0.130 | 4.465 | 0.003 | 0.017 |
| | 4.35 | 4.33 | 0.020 | 4.340 | 0.005 | 0.000 |
| | 4.36 | 4.56 | 0.200 | 4.460 | 0.002 | 0.040 |
| 4.55 | 4.36 | 0.190 | 4.455 | 0.002 | 0.036 | |
| Statistics | | | Gavg | SX | SS | |
| Mean | 4.416 | 4.406 | 4.411 | 0.071 | 0.078 | |
| SD | 0.1343 | 0.1261 | C | C SQRT | | |
| RSD | 3.042 | 2.863 | 0.0244 | 0.16 | | |
| Proof of Homogeneity | Based on Statistical procedures outlined in Annex B, ISO 13528:2015 guidelines, If "SS is < square root of C" Standard is considered homogeneous. CM-58 is statistically homogenous | | | | | |

APPENDIX IV: General Notes

Intended Use

This Certified Reference Material, fit 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 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.

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" 30 g 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.