# CDN Resource Laboratories Ltd.

#2, 20148 – 102nd Avenue, Langley, B.C., Canada, V1M 4B4, 604-882-8422, Fax: 604-882-8466 (www.cdnlabs.com)

## REFERENCE MATERIAL: CDN-GS-1Q

Recommended value and the "Between Laboratory" two standard deviations

| | | | |
|---|---|---|---|
| ***Gold*** | ***1.24 g/t ± 0.08 g/t*** | ***30g FA, instrumental*** | ***Certified value*** |
| ***Silver*** | ***40.7 g/t ± 2.2 g/t*** | ***4-acid, instrumental*** | ***Certified value*** |

**PREPARED BY**: CDN Resource Laboratories Ltd.
**CERTIFIED BY:** Duncan Sanderson, B.Sc., Licensed Assayer of British Columbia
**INDEPENDENT GEOCHEMIST:** Dr. Barry Smee., Ph.D., P. Geo.
**DATE OF CERTIFICATION:** April 17, 2014

**ORIGIN OF REFERENCE MATERIAL:**

Standard CDN-GS-1Q was prepared using 775 kg of a blank granitic ore and 25 kg of a high grade gold, silver ore.

**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 blender. Splits were taken and sent to 15 commercial laboratories for round robin assaying. Round robin results are displayed below:

| | 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 | Au g/t | Au g/t | Au g/t | Au g/t | Au g/t | Au g/t | Au g/t | Au g/t | Au g/t | Au g/t | Au g/t | Au g/t | Au g/t | Au g/t |
| CDN-GS-1Q-1 | 1.24 | 1.23 | 1.19 | 1.27 | 1.21 | 1.23 | 1.21 | 1.26 | 1.24 | 1.25 | 1.24 | 1.19 | 1.19 | 1.19 | 1.30 |
| CDN-GS-1Q-2 | 1.27 | 1.29 | 1.21 | 1.24 | 1.26 | 1.22 | 1.21 | 1.37 | 1.24 | 1.25 | 1.20 | 1.23 | 1.26 | 1.17 | 1.27 |
| CDN-GS-1Q-3 | 1.27 | 1.22 | 1.26 | 1.18 | 1.25 | 1.24 | 1.20 | 1.32 | 1.33 | 1.24 | 1.23 | 1.18 | 1.17 | 1.16 | 1.29 |
| CDN-GS-1Q-4 | 1.27 | 1.27 | 1.19 | 1.23 | 1.34 | 1.21 | 1.23 | 1.26 | 1.33 | 1.22 | 1.27 | 1.20 | 1.18 | 1.20 | 1.26 |
| CDN-GS-1Q-5 | 1.27 | 1.22 | 1.31 | 1.24 | 1.29 | 1.24 | 1.21 | 1.22 | 1.29 | 1.22 | 1.27 | 1.18 | 1.23 | 1.22 | 1.28 |
| CDN-GS-1Q-6 | 1.28 | 1.24 | 1.30 | 1.18 | 1.26 | 1.28 | 1.20 | 1.32 | 1.31 | 1.26 | 1.19 | 1.19 | 1.25 | 1.20 | 1.26 |
| CDN-GS-1Q-7 | 1.26 | 1.24 | 1.25 | 1.17 | 1.33 | 1.20 | 1.23 | 1.32 | 1.31 | 1.24 | 1.26 | 1.23 | 1.22 | 1.19 | 1.30 |
| CDN-GS-1Q-8 | 1.29 | 1.26 | 1.28 | 1.21 | 1.25 | 1.23 | 1.21 | 1.29 | 1.31 | 1.23 | 1.24 | 1.25 | 1.22 | 1.19 | 1.25 |
| CDN-GS-1Q-9 | 1.25 | 1.25 | 1.27 | 1.32 | 1.30 | 1.20 | 1.21 | 1.23 | 1.34 | 1.24 | 1.27 | 1.19 | 1.23 | 1.19 | 1.30 |
| CDN-GS-1Q-10 | 1.26 | 1.21 | 1.24 | 1.28 | 1.23 | 1.18 | 1.21 | 1.24 | 1.30 | 1.26 | 1.24 | 1.13 | 1.29 | 1.22 | 1.33 |
| Mean | 1.27 | 1.24 | 1.25 | 1.23 | 1.27 | 1.22 | 1.21 | 1.28 | 1.30 | 1.24 | 1.24 | 1.20 | 1.22 | 1.19 | 1.28 |
| Std. Dev'n | 0.0138 | 0.0250 | 0.0427 | 0.0487 | 0.0421 | 0.0292 | 0.0105 | 0.0488 | 0.0350 | 0.0145 | 0.0298 | 0.0337 | 0.0376 | 0.0192 | 0.0246 |
| %RSD | 1.09 | 2.01 | 3.41 | 3.95 | 3.31 | 2.39 | 0.87 | 3.80 | 2.69 | 1.17 | 2.40 | 2.81 | 3.07 | 1.61 | 1.91 |

| | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Ag g/t | Ag g/t | Ag g/t | Ag g/t | Ag g/t | Ag g/t | Ag g/t | Ag g/t | Ag g/t | Ag g/t | Ag g/t | Ag g/t | Ag g/t | Ag g/t | Ag g/t |
| CDN-GS-1Q-1 | 43.0 | 40.6 | 40.0 | 45.5 | 41.5 | 40.3 | 40.9 | 39 | 39.9 | 41.7 | 37.0 | 39.8 | 43.9 | 40.3 | 36.0 |
| CDN-GS-1Q-2 | 44.0 | 40.5 | 40.8 | 45.6 | 40.9 | 41.1 | 40.1 | 40 | 41.3 | 41.8 | 38.0 | 39.0 | 41.2 | 41.4 | 37.0 |
| CDN-GS-1Q-3 | 43.0 | 41.3 | 39.3 | 46.3 | 38.8 | 40.5 | 40.0 | 40 | 40.2 | 40.8 | 36.4 | 38.9 | 42.9 | 40.6 | 37.0 |
| CDN-GS-1Q-4 | 44.0 | 41.6 | 40.7 | 48.2 | 39.3 | 39.9 | 40.6 | 39 | 42.2 | 41.2 | 37.4 | 38.9 | 41.9 | 41.1 | 35.5 |
| CDN-GS-1Q-5 | 43.0 | 40.0 | 40.8 | 45.5 | 39.7 | 41.5 | 40.8 | 39 | 40.1 | 41.6 | 36.3 | 38.8 | 42.5 | 40.4 | 37.0 |
| CDN-GS-1Q-6 | 43.0 | 40.9 | 40.1 | 45.8 | 39.6 | 41.4 | 40.6 | 39 | 41.4 | 40.7 | 37.8 | 38.8 | 40.9 | 40.8 | 37.0 |
| CDN-GS-1Q-7 | 43.0 | 39.5 | 40.0 | 47.0 | 39.7 | 41.1 | 40.9 | 41 | 41.3 | 41.4 | 37.0 | 38.4 | 41.8 | 41.0 | 37.0 |
| CDN-GS-1Q-8 | 43.0 | 39.4 | 40.9 | 48.2 | 40.3 | 41.7 | 40.5 | 40 | 41.1 | 41.0 | 36.9 | 39.9 | 42.7 | 40.8 | 37.0 |
| CDN-GS-1Q-9 | 43.0 | 40.8 | 39.6 | 46.3 | 39.8 | 40.9 | 40.3 | 40 | 42.5 | 42.3 | 37.7 | 38.1 | 43.5 | 40.4 | 36.0 |
| CDN-GS-1Q-10 | 42.0 | 39.3 | 39.7 | 48.1 | 39.5 | 41.8 | 40.3 | 40 | 40.5 | 41.8 | 37.3 | 39.2 | 41.9 | 40.2 | 35.5 |
| Mean | 43.1 | 40.4 | 40.2 | 46.7 | 39.9 | 41.0 | 40.5 | 39.7 | 41.1 | 41.4 | 37.2 | 39.0 | 42.3 | 40.7 | 36.5 |
| Std. Dev'n | 0.568 | 0.809 | 0.574 | 1.142 | 0.791 | 0.625 | 0.320 | 0.675 | 0.877 | 0.506 | 0.569 | 0.553 | 0.960 | 0.389 | 0.667 |
| %RSD | 1.32 | 2.00 | 1.43 | 2.45 | 1.98 | 1.52 | 0.79 | 1.70 | 2.14 | 1.22 | 1.53 | 1.42 | 2.27 | 0.96 | 1.83 |

***Note: Ag data from laboratories 4, 11 and 15 was excluded for failing the t test.***

**REFERENCE MATERIAL: CDN-GS-1Q**

APPROXIMATE CHEMICAL COMPOSITION (by whole rock analysis):

| | Percent | | | Percent |
|---|---|---|---|---|
| SiO2 | 60.1 | | Na2O | 3.2 |
| Al2O3 | 16.1 | | MgO | 2.6 |
| Fe2O3 | 7.4 | | K2O | 1.5 |
| CaO | 5.9 | | TiO2 | 0.5 |
| MnO | 0.2 | | LOI | 1.3 |
| Total S | 0.2 | | | |

**Statistical Procedures:**

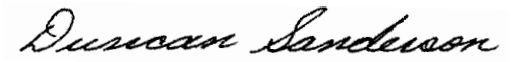
The final limits were calculated after first determining if all data was compatible within a spread normally expected for similar analytical methods done by reputable laboratories. Data from any one laboratory was removed from further calculations when the mean of all analyses from that laboratory failed a t test of the global means of the other laboratories. The mean and standard deviation 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.

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

Acme Analytical Laboratories Ltd., Vancouver, BC, Canada
Activation Laboratories, Ancaster, Ontario, Canada
Activation Laboratories, Thunder Bay, Ontario, Canada
ALS Chemex, North Vancouver, BC, Canada
American Assay Laboratories Inc., Sparks, Nevada, USA
Certimin, Lima, Peru
Intertek - Genalysis Lab Services, Perth, Australia
Labtium, Finland
Met-Solve Analytical Services, Langley, BC, Canada
Omac Laboratories Ltd., Loughrea, Ireland
SGS, Vancouver, BC, Canada
SGS, Lima, Peru
Skyline Laboratories, Reno, Nevada, USA
TSL Laboratories Ltd., Saskatoon, SK, Canada
Ultra Trace Laboratories Ltd., Perth, Australia

Legal Notice:



Certified by 

Duncan Sanderson, Certified Assayer of B.C.

Geochemist

Dr. Barry Smee, Ph.D., P. Geo.