

# CDN Resource Laboratories Ltd.

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## GOLD ORE REFERENCE STANDARD: CDN-GS-50

Recommended value and the "Between Laboratory" two standard deviations

*Gold concentration: 50.5 ± 2.8 g/t (30g fire assay / gravimetric finish)*

**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:** December 21, 2013

### ORIGIN OF REFERENCE MATERIAL:

Standard CDN-GS-50 was prepared using ore supplied by Teuton Resources from their Clone gold property in B.C., Canada. Mineralization is localized within highly silicified semi-massive to massive specular hematite. The gold occurs as fine disseminations and is associated with the oxide mineralization. The major lithology is observed to be light grey to green andesitic pyroclastics intercalated with fine grained to aphanitic andesite. Clasts are subangular to angular, matrix supported, and range in size from 1-3cm. Quartz-calcite stockwork pervades the unit in moderate abundance. 196kg of this ore was blended with 274 kg of a blank granitic 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 6 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
Sample	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
GS-50-1	48.1	51.7	45.8	52.16	47.18	54.2	49.2	53.6	49.3	50.2	51.3	51.33	51.6	50.9	49.8
GS-50-2	44.5	50.1	48.2	51.50	47.47	51.9	48.9	53.7	50.2	50.8	52.3	51.82	50.3	50.3	50.2
GS-50-3	45.8	50.9	47.9	51.54	51.69	52.8	49.1	51.3	49.8	50.5	51.2	49.55	51.5	49.5	49.8
GS-50-4	44.1	50.5	47.1	51.83	46.35	52.6	49.8	51.5	49.2	49.4	48.9	50.57	49.6	50.4	50.4
GS-50-5	45.4	51.2	47.7	51.62	48.66	53.2	47.8	52.4	49.1	50.6	50.0	50.72	51.9	50.7	50.6
GS-50-6	41.5	52.0	47.1	51.59	46.52	52.5	48.9	51.8	50.8	50.2	49.2	50.55	51.3	50.7	50.1
GS-50-7	46.4	51.6	47.1	51.11	46.11	52.4	49.1	52.7	50.4	50.7	50.8	49.80	51.3	50.7	50.3
GS-50-8	44.2	48.6	46.4	50.98	47.54	53.1	49.4	52.9	49.9	49.8	50.4	51.22	51.1	49.9	49.9
GS-50-9	46.8	51.9	48.7	51.44	50.79	52.1	49.2	52.8	50.3	50.8	50.2	48.57	50.0	49.0	50.3
GS-50-10	44.5	51.5	46.9	52.06	46.96	51.9	49.0	52.1	50.2	50.8	50.5	48.82	49.6	51.3	50.1
Mean	45.13	51.00	47.30	51.58	47.93	52.67	49.04	52.48	49.92	50.38	50.48	50.30	50.82	50.33	50.15
Std. Dev'n	1.8148	1.0424	0.8389	0.3706	1.9007	0.7025	0.5103	0.8189	0.5673	0.4780	1.0031	1.0814	0.8626	0.7005	0.2788
%RSD	4.02	2.04	1.77	0.72	3.97	1.33	1.04	1.56	1.14	0.95	1.99	2.15	1.70	1.39	0.56

*Note: Results from laboratory 1 were excluded for failing the t test.*

### APPROXIMATE CHEMICAL COMPOSITION (by whole rock analysis):

	Percent		Percent
SiO <sub>2</sub>	55.5	Na <sub>2</sub> O	2.0
Al <sub>2</sub> O <sub>3</sub>	13.2	MgO	2.1
Fe <sub>2</sub> O <sub>3</sub>	18.7	K <sub>2</sub> O	2.0
CaO	4.0	TiO <sub>2</sub>	0.4
MnO	0.1	LOI	1.5
S	<0.1	C	<0.1

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### **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  $\pm 2$  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  
Activation Laboratories, Kamloops, BC, Canada  
ALS Canada, North Vancouver, BC, Canada  
ALS, Loughrea, Ireland  
ALS, Nevada, USA  
American Assay Laboratories, Nevada, USA  
Certimin S.A., Lima, Peru  
Labtium Inc., Finland  
Met-Solve Analytical Services Inc., Langley, BC, Canada  
SGS, Vancouver, BC, Canada  
SGS, Lima, Peru  
Skyline Assayers & Laboratories Ltd, Arizona, USA  
TSL Laboratories Ltd., Saskatoon, SK, Canada


### 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

  
Duncan Sanderson, Certified Assayer of B.C.

Geochemist

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