

# CDN Resource Laboratories Ltd.

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

## STANDARD REFERENCE MATERIAL: CDN-CM-14

Recommended values and the “Between Lab” Two Standard Deviations

<i>Gold</i>	<i>0.792 g/t ± 0.078 g/t</i>	<i>Certified value</i>
<i>Copper</i>	<i>1.058 % ± 0.062 %</i>	<i>Certified value</i>
<i>Molybdenum</i>	<i>0.042 % ± 0.002 %</i>	<i>Certified value</i>

**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:** June 13, 2011

### **ORIGIN OF REFERENCE MATERIAL:**

Standard CDN-CM-14 was prepared using 775 kg of a granitic rock blended with 26 kg of a Cu-Au-Mo concentrate.

### **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.

**Approximate chemical composition (by whole rock analysis) is as follows:**

	Percent		Percent
SiO <sub>2</sub>	72.1	MgO	1.6
Al <sub>2</sub> O <sub>3</sub>	10.9	K <sub>2</sub> O	1.2
Fe <sub>2</sub> O <sub>3</sub>	5.1	TiO <sub>2</sub>	0.5
CaO	2.6	LOI	2.0
Na <sub>2</sub> O	2.8	S	0.7

### **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  $\pm 2$  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.

**Results from round-robin assaying are displayed on the following page.**

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**Assay Procedures:**    **Au:** Fire assay pre-concentration, AA or ICP finish (30g sub-sample).  
**Cu, Mo:** 4-acid digestion, AA or ICP finish.

	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
CM-14-1	0.757	0.775	0.882	0.792	0.75	0.738	0.799	0.798	0.781	0.80	0.83	0.850	0.783	0.82	0.702
CM-14-2	0.776	0.824	0.805	0.813	0.78	0.731	0.820	0.763	0.772	0.83	0.89	0.868	0.788	0.81	0.759
CM-14-3	0.769	0.869	0.810	0.845	0.81	0.800	0.807	0.789	0.768	0.80	0.79	0.832	0.775	0.83	0.784
CM-14-4	0.749	0.740	0.762	0.840	0.75	0.734	0.708	0.813	0.784	0.86	0.79	0.825	0.773	0.80	0.715
CM-14-5	0.808	0.853	0.802	0.849	0.90	0.775	0.775	0.800	0.738	0.78	0.80	0.847	0.755	0.74	0.734
CM-14-6	0.768	0.738	0.743	0.779	0.87	0.811	0.801	0.812	0.750	0.79	0.86	0.845	0.829	0.78	0.700
CM-14-7	0.743	0.806	0.776	0.788	0.76	0.783	0.793	0.764	0.752	0.78	0.84	0.840	0.850	0.80	0.753
CM-14-8	0.791	0.784	0.846	0.818	0.72	0.812	0.751	0.812	0.731	0.81	0.84	0.841	0.800	0.75	0.752
CM-14-9	0.750	0.800	0.758	0.846	0.84	0.721	0.813	0.771	0.797	0.80	0.86	0.864	0.736	0.84	0.704
CM-14-10	0.742	0.812	0.726	0.815	0.82	0.788	0.797	0.826	0.779	0.71	0.82	0.846	0.757	0.76	0.736
Mean	0.765	0.800	0.791	0.819	0.800	0.769	0.786	0.795	0.765	0.796	0.832	0.846	0.785	0.794	0.734
Std. Devn.	0.0217	0.0430	0.0479	0.0260	0.0581	0.0351	0.0339	0.0223	0.0215	0.0386	0.0329	0.0130	0.0345	0.0329	0.0284
% RSD	2.83	5.38	6.06	3.18	7.26	4.57	4.31	2.81	2.81	4.85	3.96	1.54	4.40	4.15	3.87
	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu
CM-14-1	1.071	1.10	1.03	1.07	1.00	1.09	0.998	1.06	1.103	1.076	1.050	1.04	1.06	1.01	1.11
CM-14-2	1.083	1.08	1.04	1.07	1.02	1.08	1.000	1.04	1.080	1.063	1.040	1.06	1.06	1.03	1.10
CM-14-3	1.070	1.07	1.04	1.07	1.00	1.06	1.020	1.05	1.113	1.079	0.989	1.06	1.07	1.02	1.11
CM-14-4	1.072	1.08	1.05	1.07	1.03	1.08	1.030	1.06	1.135	1.080	1.010	1.05	1.07	1.02	1.10
CM-14-5	1.088	1.10	1.04	1.07	1.00	1.05	1.010	1.03	1.124	1.088	1.040	1.05	1.05	1.02	1.10
CM-14-6	1.075	1.05	1.05	1.08	1.01	1.07	1.030	1.05	1.135	1.052	1.010	1.05	1.06	1.01	1.12
CM-14-7	1.068	1.07	1.04	1.10	1.01	1.08	1.010	1.06	1.092	1.070	1.010	1.06	1.06	1.01	1.12
CM-14-8	1.095	1.09	1.04	1.07	1.00	1.09	1.000	1.04	1.078	1.047	0.989	1.06	1.07	1.02	1.09
CM-14-9	1.094	1.08	1.05	1.09	1.01	1.07	1.030	1.05	1.081	1.055	1.020	1.08	1.06	1.02	1.11
CM-14-10	1.100	1.09	1.03	1.09	0.99	1.06	1.050	1.05	1.147	1.054	1.040	1.07	1.07	1.02	1.10
Mean	1.082	1.079	1.041	1.079	1.007	1.073	1.018	1.049	1.109	1.066	1.020	1.058	1.064	1.020	1.106
Std. Devn.	0.0119	0.0160	0.0074	0.0130	0.0116	0.0133	0.0171	0.0099	0.0257	0.0140	0.0219	0.0114	0.0069	0.0052	0.0097
% RSD	1.10	1.48	0.71	1.20	1.15	1.24	1.68	0.95	2.32	1.31	2.15	1.07	0.65	0.51	0.87
	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo	% Mo
CM-14-1	0.042	0.041	0.043	0.041	0.042	0.041	0.041	0.043	0.043	0.041	0.045	0.041	0.042	0.040	0.04
CM-14-2	0.042	0.041	0.043	0.042	0.043	0.042	0.043	0.043	0.043	0.043	0.045	0.040	0.043	0.040	0.05
CM-14-3	0.041	0.039	0.044	0.041	0.043	0.042	0.043	0.043	0.043	0.042	0.046	0.041	0.042	0.040	0.05
CM-14-4	0.042	0.041	0.047	0.042	0.043	0.041	0.044	0.042	0.043	0.043	0.044	0.037	0.042	0.040	0.05
CM-14-5	0.043	0.040	0.043	0.042	0.043	0.041	0.042	0.042	0.043	0.043	0.048	0.041	0.042	0.041	0.05
CM-14-6	0.042	0.040	0.043	0.041	0.043	0.041	0.044	0.044	0.044	0.041	0.043	0.041	0.042	0.040	0.05
CM-14-7	0.042	0.040	0.043	0.042	0.044	0.042	0.043	0.042	0.043	0.042	0.045	0.041	0.042	0.042	0.05
CM-14-8	0.042	0.040	0.043	0.041	0.042	0.042	0.043	0.043	0.042	0.041	0.044	0.041	0.042	0.040	0.05
CM-14-9	0.042	0.040	0.043	0.041	0.043	0.042	0.043	0.046	0.042	0.041	0.045	0.039	0.042	0.041	0.04
CM-14-10	0.042	0.040	0.042	0.041	0.044	0.041	0.043	0.044	0.045	0.043	0.045	0.041	0.041	0.041	0.05
Mean	0.042	0.040	0.043	0.041	0.043	0.042	0.043	0.043	0.043	0.042	0.045	0.040	0.042	0.040	0.048
Std. Devn.	0.0005	0.0006	0.0013	0.0005	0.0007	0.0005	0.0009	0.0012	0.0009	0.0010	0.0014	0.0014	0.0005	0.0006	0.0042
% RSD	1.12	1.57	3.11	1.22	1.55	1.27	2.04	2.85	2.03	2.38	3.14	3.38	1.14	1.41	8.78

**Note:** "Mo" data from laboratory 15 was excluded from the calculations for failing the t test.

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## Participating Laboratories:

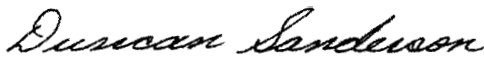
(not in same order as listed in table of results)

Acme Analytical Laboratories Ltd., Vancouver, B.C., Canada  
Activation Laboratories, Ancaster, Ontario, Canada  
Activation Laboratories, Thunder Bay, Ontario, Canada  
ALS Chemex, North Vancouver, B.C., Canada  
American Assay Lab., Nevada, USA  
CIMM Peru SA  
Genalysis, Perth, Australia  
Inspectorate, Richmond, B.C., Canada  
Omac, Ireland  
Skyline Laboratory, Arizona, USA  
SGS – Lima, Peru  
Stewart Group, Kamloops, B.C., Canada  
Alex Stewart Argentina SA  
TSL Laboratories Ltd., Saskatoon, SK, Canada  
Ultra Trace, Perth, Australia

## Legal Notice:

This certificate and the reference material described in it have been prepared with due care and attention. However CDN Resource Laboratories Ltd. or Barry Smee accept no 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.