

# CDN Resource Laboratories Ltd.

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## ORE REFERENCE STANDARD: CDN-CGS-22

Recommended values and the "Between Lab" Two Standard Deviations

*Copper concentration: 0.725 ± 0.028 %*

*Gold concentration: 0.64 ± 0.06 g/t*

**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:** March 6, 2009

### **METHOD OF PREPARATION:**

Reject ore material was dried, crushed, pulverized and then passed through a 200 mesh screen. The +200 material was discarded. The -200 material was mixed for 6 days in a double-cone blender. Splits were taken and sent to 12 laboratories for round robin assaying.

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

This standard is made from 19 kg of a Cu-Au concentrate (screened to -325 mesh) and 780 kg of blank, granitic material (screened to -200 mesh).

### **Approximate chemical composition is as follows:**

	Percent			Percent
SiO <sub>2</sub>	66.9		MgO	2.2
Al <sub>2</sub> O <sub>3</sub>	12.2		K <sub>2</sub> O	1.5
Fe <sub>2</sub> O <sub>3</sub>	6.0		TiO <sub>2</sub>	0.6
CaO	3.6		LOI	2.0
Na <sub>2</sub> O	3.0		S	0.8

### **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.

## **STANDARD REFERENCE MATERIAL CDN-CGS-22**

### **Results from round-robin assaying:**

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

**Cu:** 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
	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)
CGS-22-1	0.67	0.679	0.61	0.64	0.64	0.62	0.70	0.649	0.64	0.647	0.67	0.602
CGS-22-2	0.69	0.652	0.68	0.63	0.66	0.63	0.69	0.625	0.62	0.634	0.61	0.626
CGS-22-3	0.64	0.634	0.63	0.65	0.65	0.64	0.64	0.620	0.68	0.635	0.69	0.660
CGS-22-4	0.66	0.686	0.60	0.66	0.65	0.67	0.67	0.617	0.62	0.628	0.68	0.609
CGS-22-5	0.64	0.643	0.67	0.63	0.61	0.66	0.59	0.662	0.65	0.570	0.69	0.680
CGS-22-6	0.67	0.631	0.64	0.66	0.67	0.68	0.70	0.589	0.60	0.618	0.68	0.581
CGS-22-7	0.60	0.683	0.63	0.65	0.63	0.63	0.68	0.594	0.65	0.641	0.67	0.602
CGS-22-8	0.62	0.668	0.64	0.63	0.65	0.61	0.68	0.591	0.61	0.653	0.63	0.614
CGS-22-9	0.59	0.649	0.63	0.64	0.63	0.52	0.64	0.655	0.60	0.701	0.67	0.640
CGS-22-10	0.69	0.637	0.68	0.65	0.67	0.64	0.60	0.658	0.60	0.715	0.66	0.647
Mean	0.647	0.656	0.641	0.644	0.646	0.630	0.659	0.626	0.627	0.644	0.665	0.626
Std. Dev.	0.035	0.021	0.028	0.012	0.019	0.044	0.040	0.029	0.027	0.041	0.026	0.030
%RSD	5.45	3.21	4.32	1.82	2.96	7.06	6.05	4.59	4.32	6.33	3.90	4.86
	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)
CGS-22-1	0.694	0.728	0.729	0.711	0.705	0.775	0.724	0.777	0.735	0.728	0.73	0.726
CGS-22-2	0.706	0.738	0.714	0.710	0.713	0.730	0.735	0.787	0.729	0.731	0.73	0.707
CGS-22-3	0.701	0.721	0.737	0.711	0.709	0.767	0.733	0.788	0.731	0.727	0.74	0.763
CGS-22-4	0.710	0.727	0.749	0.708	0.711	0.775	0.747	0.768	0.733	0.733	0.73	0.719
CGS-22-5	0.708	0.728	0.734	0.705	0.698	0.750	0.726	0.793	0.727	0.736	0.73	0.712
CGS-22-6	0.707	0.736	0.732	0.709	0.714	0.769	0.719	0.783	0.724	0.724	0.74	0.712
CGS-22-7	0.702	0.733	0.729	0.720	0.712	0.757	0.735	0.826	0.727	0.728	0.74	0.686
CGS-22-8	0.714	0.747	0.743	0.693	0.704	0.766	0.729	0.802	0.724	0.727	0.73	0.720
CGS-22-9	0.709	0.726	0.733	0.709	0.724	0.757	0.735	0.807	0.725	0.726	0.74	0.743
CGS-22-10	0.711	0.724	0.726	0.711	0.718	0.767	0.735	0.800	0.726	0.738	0.74	0.709
Mean	0.706	0.731	0.733	0.709	0.711	0.761	0.732	0.793	0.728	0.730	0.735	0.720
Std. Dev.	0.006	0.008	0.010	0.007	0.007	0.014	0.008	0.017	0.004	0.005	0.005	0.021
%RSD	0.82	1.06	1.30	0.95	1.04	1.79	1.03	2.08	0.52	0.63	0.72	2.92

**Note:** Cu data from Lab. 8 was removed for failing the “t” test.

**STANDARD REFERENCE MATERIAL CDN-CGS-22**

**Participating Laboratories:**

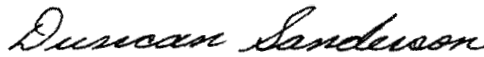
(not in same order as listed in table of results)

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Certified by



Duncan Sanderson, Certified Assayer of B.C.

Geochemist



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