

# CDN Resource Laboratories Ltd.

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## ORE REFERENCE STANDARD: CDN-FCM-4

Recommended values and the "Between Lab" Two Standard Deviations

*Gold* 0.97 ± 0.08 g/t  
*Silver* 54.9 ± 6.4 g/t  
*Copper* 0.702 ± 0.042 %  
*Lead* 0.340 ± 0.028 %  
*Zinc* 1.28 ± 0.08 %

**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:** August 19, 2007

### **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 5 days in a double-cone blender. Splits were taken and sent to eleven laboratories for round robin assaying. The material has been packaged in nominal 100g lots or 60g lots in tin-top kraft bags which have been individually vacuum-sealed in polyethylene bags.

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

The ore was supplied by Hunter Dickinson (Farallon) from their Campo Morado property in Mexico. The Campo Morado precious-metal-bearing, volcanogenic massive sulphide deposits occur in a lower Cretaceous bimodal, calc-alkaline volcanic sequence. Most deposits occur in the upper part of a sequence of felsic flows and heterolithic volcanoclastic rocks or at its contact with overlying chert and argillite. Gold, silver, zinc, and lead are associated with pyrite, quartz, ankerite, sphalerite, chalcopyrite and galena, with minor tennantite-freibergite, arsenopyrite, and pyrrotite.

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

	Percent		Percent
SiO <sub>2</sub>	19.6	MgO	1.9
Al <sub>2</sub> O <sub>3</sub>	< 0.1	K <sub>2</sub> O	0.1
Fe <sub>2</sub> O <sub>3</sub>	46.2	TiO <sub>2</sub>	< 0.1
CaO	3.1	LOI	27.0
Na <sub>2</sub> O	< 0.1	S	34.2

### **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 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.

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### Results from round-robin assaying:

#### Assay Procedures:

**Au:** Fire assay pre-concentration, AA or ICP finish (10g sub-sample).

**Ag, Cu, Pb, Zn:** 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
	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
FCM4-1	0.98	0.965	1.032	0.92	0.92	0.995	0.99	0.980	1.09	0.95	1.047
FCM4-2	0.92	0.963	1.016	0.95	0.98	0.969	0.99	0.984	1.06	0.96	1.134
FCM4-3	0.9	1.045	1.038	0.98	0.95	1.002	0.99	1.050	1.03	0.93	1.088
FCM4-4	0.96	0.897	1.018	0.92	0.93	1.016	0.95	0.936	0.97	0.96	1.087
FCM4-5	1.02	0.967	1.044	0.95	0.95	0.985	1.00	0.986	0.95	1.03	1.077
FCM4-6	0.99	1.005	1.012	0.93	0.96	0.977	0.99	0.951	0.97	0.97	1.061
FCM4-7	0.92	1.095	1.020	0.96	0.96	0.983	0.98	0.955	0.94	0.98	1.116
FCM4-8	0.96	0.952	1.026	0.94	0.94	1.026	1.00	0.974	0.97	0.95	1.103
FCM4-9	0.91	0.942	1.020	0.97	0.92	0.979	0.96	0.948	1.00	0.92	1.044
FCM4-10	0.98	0.957	1.032	0.97	0.91	0.991	0.94	0.972	0.97	0.92	1.096
Mean	0.95	0.98	1.03	0.95	0.94	0.99	0.98	0.97	1.00	0.96	1.09
Std. Devn.	0.0398	0.0562	0.0104	0.0213	0.0220	0.0179	0.0213	0.0317	0.0495	0.0327	0.0290
% RSD	4.17	5.74	1.01	2.25	2.34	1.81	2.18	3.26	4.97	3.41	2.67
	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
FCM4-1	57	57.4	43.0	50.1	53.9	54.8	56	53.0	59	49.1	58
FCM4-2	56	58.1	42.7	50.0	52.7	54.2	57	53.1	59	50.4	59
FCM4-3	56	57	42.6	51.1	53.7	54.0	56	53.5	59	50.1	54
FCM4-4	56	58.2	42.8	48.0	53.0	53.2	58	53.0	59	49.2	58
FCM4-5	58	57.5	43.0	48.1	53.9	53.1	56	53.8	62	48.4	58
FCM4-6	57	58.4	43.1	50.2	53.7	54.6	58	52.6	59	49.3	59
FCM4-7	56	58.7	42.9	51.5	53.3	53.3	57	52.0	59	49.5	61
FCM4-8	56	58.8	42.6	50.1	53.3	54.5	56	54.7	59	50.5	59
FCM4-9	56	58.5	42.5	49.5	53.4	54.7	58	55.3	62	48.6	59
FCM4-10	56	56.4	42.8	50.5	53.4	56.2	55	52.1	57	49.9	57
Mean	56.4	57.9	42.8	49.9	53.4	54.3	56.7	53.3	59.4	49.5	58.2
Std. Devn.	0.6992	0.7930	0.2000	1.1328	0.4072	0.9359	1.0593	1.0588	1.5055	0.7180	1.8135
% RSD	1.24	1.37	0.47	2.27	0.76	1.72	1.87	1.99	2.53	1.45	3.12

**Note:** 1. "Au" data from laboratory 11 were excluded from the calculations for failing the "t" test  
2. "Ag" data from laboratory 3 were excluded from the calculations for failing the "t" test.

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	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab 10	Lab 11
	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu
FCM4-1	0.721	0.725	0.68	0.676	0.708	0.714	0.712	0.712	0.730	0.690	0.679
FCM4-2	0.724	0.745	0.65	0.682	0.696	0.710	0.709	0.711	0.738	0.670	0.669
FCM4-3	0.730	0.734	0.67	0.681	0.706	0.722	0.706	0.702	0.735	0.693	0.679
FCM4-4	0.729	0.741	0.66	0.676	0.705	0.720	0.724	0.709	0.729	0.700	0.700
FCM4-5	0.731	0.727	0.68	0.673	0.711	0.718	0.698	0.707	0.731	0.691	0.658
FCM4-6	0.710	0.736	0.67	0.675	0.707	0.720	0.708	0.703	0.725	0.698	0.702
FCM4-7	0.714	0.751	0.66	0.675	0.709	0.719	0.703	0.694	0.734	0.700	0.712
FCM4-8	0.720	0.769	0.66	0.683	0.699	0.708	0.704	0.725	0.729	0.699	0.689
FCM4-9	0.714	0.758	0.66	0.675	0.704	0.710	0.698	0.707	0.734	0.691	0.663
FCM4-10	0.729	0.733	0.66	0.673	0.708	0.711	0.702	0.694	0.728	0.700	0.685
Mean	0.722	0.742	0.665	0.677	0.705	0.715	0.706	0.706	0.731	0.693	0.684
Std. Devn.	0.0076	0.0140	0.0097	0.0037	0.0045	0.0052	0.0077	0.0091	0.0039	0.0092	0.0176
% RSD	1.06	1.89	1.46	0.55	0.64	0.72	1.08	1.29	0.53	1.32	2.57
	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb
FCM4-1	0.35	0.323	0.33	0.34	0.339	0.359	0.360	0.356	0.339	0.313	0.34
FCM4-2	0.35	0.328	0.32	0.34	0.332	0.362	0.360	0.356	0.341	0.309	0.33
FCM4-3	0.35	0.321	0.32	0.34	0.340	0.351	0.348	0.353	0.341	0.320	0.32
FCM4-4	0.35	0.321	0.32	0.34	0.333	0.353	0.365	0.355	0.340	0.322	0.33
FCM4-5	0.36	0.317	0.32	0.35	0.339	0.353	0.352	0.352	0.343	0.322	0.32
FCM4-6	0.36	0.327	0.33	0.34	0.338	0.356	0.355	0.351	0.340	0.321	0.33
FCM4-7	0.36	0.324	0.32	0.34	0.338	0.353	0.352	0.346	0.347	0.319	0.34
FCM4-8	0.36	0.326	0.32	0.34	0.335	0.364	0.352	0.360	0.346	0.320	0.32
FCM4-9	0.35	0.325	0.32	0.34	0.336	0.365	0.353	0.353	0.346	0.316	0.33
FCM4-10	0.35	0.315	0.32	0.34	0.340	0.360	0.350	0.347	0.339	0.320	0.34
Mean	0.354	0.323	0.322	0.341	0.337	0.358	0.355	0.353	0.342	0.318	0.330
Std. Devn.	0.0052	0.0042	0.0042	0.0032	0.0029	0.0051	0.0053	0.0042	0.0031	0.0043	0.0082
% RSD	1.46	1.32	1.31	0.93	0.86	1.42	1.50	1.20	0.89	1.34	2.47
	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn
FCM4-1	1.39	1.31	1.17	1.24	1.24	1.30	1.30	1.28	1.30	1.25	1.27
FCM4-2	1.39	1.31	1.14	1.22	1.22	1.26	1.30	1.27	1.32	1.19	1.26
FCM4-3	1.36	1.33	1.16	1.26	1.21	1.29	1.28	1.26	1.30	1.24	1.13
FCM4-4	1.37	1.28	1.15	1.26	1.24	1.28	1.32	1.27	1.31	1.26	1.32
FCM4-5	1.39	1.18	1.16	1.22	1.23	1.29	1.29	1.26	1.31	1.27	1.29
FCM4-6	1.36	1.28	1.17	1.24	1.24	1.29	1.30	1.26	1.32	1.26	1.33
FCM4-7	1.36	1.33	1.14	1.23	1.24	1.27	1.28	1.24	1.32	1.27	1.33
FCM4-8	1.36	1.25	1.15	1.24	1.23	1.28	1.31	1.29	1.31	1.24	1.30
FCM4-9	1.34	1.25	1.13	1.24	1.24	1.29	1.29	1.26	1.32	1.26	1.31
FCM4-10	1.39	1.26	1.16	1.25	1.23	1.29	1.28	1.23	1.33	1.25	1.31
Mean	1.37	1.28	1.15	1.24	1.23	1.28	1.30	1.26	1.31	1.25	1.29
Std. Devn.	0.0179	0.0459	0.0134	0.0141	0.0094	0.0103	0.0135	0.0175	0.0097	0.0228	0.0593
% RSD	1.31	3.59	1.16	1.14	0.76	0.80	1.05	1.39	0.74	1.83	4.61

**Note:** 1. "Cu" data from laboratory 2 were excluded from the calculations for failing the "t" test  
2. "Zn" data from laboratory 3 were excluded from the calculations for failing the "t" test

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**Participating Laboratories:**

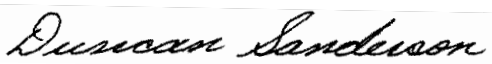
(not in same order as listed in table of results)

Acme Analytical Laboratories Ltd., Vancouver  
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ALS Chemex Laboratories, North Vancouver  
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Certified by

  
Duncan Sanderson, Certified Assayer of B.C.

Geochemist

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