CDN Resource Laboratories Ltd.

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

REFERENCE MATERIAL: CDN-ME-1302

Recommended values and the "Between Lab" Two Standard Deviations

Gold	***2.412 g/t ± 0.234 g/t***	***Certified value***
Silver	***418.9 g/t ± 16.3 g/t***	***Certified value***
Copper	***0.579 % ± 0.024 %***	***Certified value***
Lead	***4.68 % ± 0.24 %***	***Certified value***
Zinc	***1.20 % ± 0.04 %***	***Certified value***

Note: Standards with an RSD of near or less than 5% are certified; RSD's of between 5% and 15% are Provisional; RSD's over 15% are Indicated. Provisional and Indicated values cannot be used to monitor accuracy with a high degree of certainty.

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: July 25, 2013

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 mixer. Splits were taken and sent to 15 laboratories for round robin assaying.

ORIGIN OF REFERENCE MATERIAL:

Standard CDN-ME-1302 was made from a variety of ores and concentrates.

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

	Percent			Percent
SiO2	60.7		MgO	1.5
Al2O3	8.8		K2O	2.5
Fe2O3	6.4		TiO2	0.4
CaO	5.8		LOI	5.3
Na2O	1.2		S	2.8

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.

Assay Procedures:

Au: Fire assay pre-concentration, AA or ICP finish (30g sub-sample).
Ag, Cu, Pb, Zn: 4-acid digestion, AA or ICP finish.

REFERENCE MATERIAL CDN-ME-1302

Results from round-robin assaying:

	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
ME-1302-1	2.43	2.44	2.42	2.41	2.59	2.37	2.44	2.55	2.24	2.66	2.25	2.36	2.17	2.53	2.37
ME-1302-2	2.38	2.36	2.38	2.31	2.48	2.33	2.47	2.58	2.20	2.51	2.36	2.42	2.07	2.30	2.34
ME-1302-3	2.36	2.43	2.61	2.71	2.45	2.49	2.50	2.58	2.22	2.13	2.30	2.42	2.23	2.40	2.47
ME-1302-4	2.39	2.49	2.54	2.36	2.51	2.37	2.45	2.57	2.39	2.50	2.16	2.50	2.23	2.47	2.38
ME-1302-5	2.63	2.41	2.54	2.32	2.53	2.50	2.46	2.55	2.43	2.61	2.27	2.33	2.21	2.24	2.36
ME-1302-6	2.34	2.50	2.50	2.50	2.45	2.45	2.45	2.58	2.31	2.57	2.11	2.30	2.22	2.43	2.39
ME-1302-7	2.44	2.51	2.59	2.44	2.43	2.42	2.36	2.59	2.37	2.44	2.40	2.30	2.16	2.54	2.38
ME-1302-8	2.42	2.39	2.50	2.49	2.34	2.61	2.47	2.55	2.34	2.38	1.96	2.32	2.15	2.42	2.33
ME-1302-9	2.46	2.57	2.67	2.27	2.54	2.60	2.42	2.55	2.28	2.56	2.15	2.16	2.19	2.29	2.39
ME-1302-10	2.52	2.54	2.42	2.45	2.29	2.42	2.38	2.49	2.35	2.38	2.20	2.30	2.09	2.42	2.48
Mean	2.436	2.464	2.517	2.426	2.461	2.455	2.438	2.558	2.313	2.474	2.216	2.341	2.172	2.404	2.388
Std. Devn.	0.0848	0.0683	0.0922	0.1268	0.0916	0.0944	0.0433	0.0301	0.0766	0.1523	0.1292	0.0922	0.0563	0.1004	0.0499
% RSD	3.48	2.77	3.67	5.23	3.72	3.85	1.78	1.18	3.31	6.16	5.83	3.94	2.59	4.17	2.09
	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
ME-1302-1	417	422	420	420	425	406	426	423	440	425	415	411	414	409	416
ME-1302-2	417	422	433	415	422	390	423	419	450	427	430	406	401	412	426
ME-1302-3	425	417	406	424	423	406	425	424	401	434	420	405	405	420	426
ME-1302-4	418	420	415	420	426	416	423	426	439	418	417	414	420	414	432
ME-1302-5	422	422	419	413	430	400	423	424	421	434	431	403	407	416	424
ME-1302-6	419	424	418	433	429	395	425	421	433	421	409	419	407	402	420
ME-1302-7	422	421	434	422	420	404	425	421	440	427	415	418	409	414	423
ME-1302-8	423	428	412	417	434	412	426	424	407	421	428	416	409	411	422
ME-1302-9	417	420	408	406	429	403	424	424	415	421	413	411	407	413	437
ME-1302-10	424	420	412	414	427	414	420	422	458	420	426	418	416	413	422
Mean	420.3	421.6	417.7	418.4	426.5	404.6	424.0	422.5	430.2	424.8	420.4	412.1	409.5	412.4	424.8
Std. Devn.	3.238	2.914	9.487	7.289	4.197	8.208	1.826	2.125	18.707	5.692	7.806	5.859	5.622	4.695	5.996
% RSD	0.77	0.69	2.27	1.74	0.98	2.03	0.43	0.50	4.35	1.34	1.86	1.42	1.37	1.14	1.41

REFERENCE MATERIAL CDN-ME-1302

Results from round-robin assaying:

	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
	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu
ME-1302-1	0.566	0.596	0.59	0.556	0.585	0.593	0.58	0.585	0.564	0.593	0.543	0.581	0.568	0.606	0.558
ME-1302-2	0.558	0.588	0.58	0.564	0.587	0.592	0.58	0.595	0.565	0.582	0.531	0.576	0.585	0.589	0.564
ME-1302-3	0.570	0.587	0.58	0.565	0.581	0.588	0.58	0.595	0.562	0.597	0.567	0.589	0.592	0.564	0.572
ME-1302-4	0.565	0.597	0.59	0.555	0.580	0.586	0.58	0.586	0.563	0.579	0.561	0.586	0.579	0.582	0.563
ME-1302-5	0.568	0.588	0.58	0.569	0.572	0.586	0.59	0.598	0.562	0.588	0.549	0.587	0.576	0.576	0.566
ME-1302-6	0.572	0.598	0.58	0.572	0.577	0.587	0.59	0.603	0.566	0.582	0.568	0.581	0.592	0.578	0.569
ME-1302-7	0.572	0.574	0.58	0.565	0.575	0.584	0.58	0.590	0.571	0.581	0.578	0.589	0.578	0.595	0.575
ME-1302-8	0.567	0.586	0.58	0.568	0.601	0.590	0.58	0.588	0.572	0.580	0.566	0.601	0.589	0.608	0.553
ME-1302-9	0.564	0.571	0.59	0.564	0.587	0.592	0.59	0.596	0.567	0.585	0.551	0.578	0.596	0.614	0.552
ME-1302-10	0.557	0.577	0.60	0.565	0.588	0.588	0.58	0.594	0.576	0.576	0.549	0.589	0.567	0.602	0.548
Mean	0.566	0.586	0.585	0.564	0.583	0.589	0.583	0.593	0.567	0.584	0.556	0.586	0.582	0.591	0.562
Std. Devn.	0.0051	0.0096	0.0071	0.0054	0.0083	0.0030	0.0048	0.0056	0.0047	0.0066	0.0141	0.0072	0.0102	0.0163	0.0090
% RSD	0.90	1.63	1.21	0.95	1.42	0.51	0.83	0.95	0.84	1.12	2.54	1.23	1.75	2.75	1.60
	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb
ME-1302-1	4.91	4.70	4.55	4.77	4.70	4.76	4.62	4.60	4.50	4.67	4.61	4.83	4.65	4.67	4.52
ME-1302-2	4.84	4.68	4.54	4.85	4.88	4.79	4.64	4.66	4.50	4.68	4.57	4.76	4.60	4.71	4.64
ME-1302-3	4.91	4.67	4.54	4.82	4.70	4.78	4.66	4.66	4.46	4.76	4.65	4.88	4.59	4.71	4.65
ME-1302-4	4.94	4.74	4.59	4.82	4.81	4.77	4.65	4.61	4.46	4.60	4.57	4.86	4.51	4.70	4.59
ME-1302-5	4.90	4.74	4.58	4.88	4.74	4.77	4.65	4.71	4.62	4.69	4.57	4.88	4.61	4.67	4.63
ME-1302-6	4.89	4.73	4.58	4.89	4.76	4.78	4.66	4.74	4.57	4.61	4.73	4.86	4.69	4.74	4.65
ME-1302-7	4.96	4.58	4.51	4.86	4.68	4.73	4.62	4.60	4.40	4.62	4.45	4.94	4.54	4.79	4.72
ME-1302-8	4.91	4.66	4.57	4.88	4.80	4.78	4.64	4.67	4.60	4.57	4.52	4.94	4.66	4.65	4.53
ME-1302-9	4.88	4.56	4.60	4.82	4.89	4.78	4.64	4.63	4.58	4.60	4.53	4.83	4.69	4.62	4.51
ME-1302-10	4.90	4.59	4.67	4.79	4.67	4.77	4.67	4.61	4.46	4.61	4.65	4.92	4.46	4.70	4.50
Mean	4.90	4.67	4.57	4.84	4.76	4.77	4.65	4.65	4.51	4.64	4.59	4.87	4.60	4.70	4.59
Std. Devn.	0.0339	0.0674	0.0437	0.0403	0.0815	0.0166	0.0165	0.0482	0.0717	0.0574	0.0791	0.0558	0.0773	0.0477	0.0753
% RSD	0.69	1.44	0.96	0.83	1.71	0.35	0.36	1.04	1.59	1.24	1.72	1.15	1.68	1.01	1.64
	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn
ME-1302-1	1.23	1.23	1.20	1.15	1.20	1.19	1.15	1.18	1.25	1.23	1.18	1.18	1.18	1.18	1.20
ME-1302-2	1.20	1.23	1.20	1.16	1.20	1.20	1.15	1.19	1.19	1.20	1.20	1.16	1.20	1.21	1.22
ME-1302-3	1.21	1.21	1.19	1.15	1.19	1.19	1.16	1.20	1.17	1.22	1.21	1.19	1.19	1.19	1.22
ME-1302-4	1.22	1.24	1.20	1.15	1.21	1.19	1.16	1.19	1.25	1.20	1.20	1.18	1.18	1.21	1.20
ME-1302-5	1.21	1.22	1.21	1.18	1.21	1.18	1.16	1.20	1.19	1.20	1.20	1.19	1.17	1.20	1.21
ME-1302-6	1.20	1.24	1.20	1.14	1.20	1.19	1.16	1.21	1.27	1.20	1.27	1.19	1.20	1.21	1.21
ME-1302-7	1.22	1.20	1.19	1.16	1.19	1.18	1.15	1.19	1.22	1.20	1.17	1.20	1.20	1.22	1.23
ME-1302-8	1.21	1.24	1.20	1.18	1.22	1.19	1.15	1.18	1.24	1.19	1.17	1.21	1.18	1.19	1.22
ME-1302-9	1.20	1.19	1.21	1.15	1.21	1.19	1.16	1.20	1.25	1.20	1.18	1.19	1.21	1.21	1.19
ME-1302-10	1.22	1.22	1.22	1.15	1.20	1.19	1.16	1.18	1.25	1.19	1.19	1.20	1.17	1.22	1.18
Mean	1.21	1.22	1.20	1.16	1.20	1.19	1.16	1.19	1.23	1.20	1.20	1.19	1.19	1.20	1.21
Std. Devn.	0.0095	0.0176	0.0092	0.0131	0.0095	0.0057	0.0052	0.0103	0.0343	0.0133	0.0291	0.0137	0.0140	0.0117	0.0155
% RSD	0.79	1.45	0.76	1.14	0.79	0.48	0.45	0.87	2.80	1.11	2.43	1.15	1.18	0.98	1.28

REFERENCE MATERIAL CDN-ME-1302

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

Acme Analytical Laboratories Ltd., Vancouver
Acme Analytical Laboratories Ltd., Chile
Actlabs-Ancaster, Ontario, Canada
Actlabs-Kamloops, BC, Canada
Actlabs-Thunder Bay, Ontario, Canada
ALS Chemex Laboratories, North Vancouver
ALS, Loughrea, Ireland
ALS Reno, Nevada, USA
American Assay Laboratory, Nevada, USA
Certimin, Lima, Peru
Skyline Assayers and Laboratories, Arizona, USA
SGS – Vancouver, B.C., Canada
SGS – Lima, Peru
Alex Stewart Argentina SA
TSL Laboratories Ltd., Saskatoon

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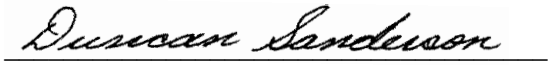
Certified by 

Duncan Sanderson, Certified Assayer of B.C.

Geochemist 

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