

CDN Resource Laboratories Ltd.

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REFERENCE MATERIAL: CDN-ME-1308

Recommended values and the “Between Lab” Two Standard Deviations

<i>Gold</i>	<i>1.40 g/t ± 0.10 g/t</i>	<i>Certified value</i>
<i>Silver</i>	<i>45.7 g/t ± 4.0 g/t</i>	<i>Certified value</i>
<i>Copper</i>	<i>0.398 % ± 0.016 %</i>	<i>Certified value</i>
<i>Lead</i>	<i>0.541 % ± 0.028 %</i>	<i>Certified value</i>
<i>Zinc</i>	<i>0.429% ± 0.020 %</i>	<i>Certified value</i>

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: December 30, 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:

This standard is made from a mixture of ores.

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

	Percent		Percent
SiO ₂	55.3	MgO	4.1
Al ₂ O ₃	10.9	K ₂ O	1.9
Fe ₂ O ₃	9.8	TiO ₂	1.3
CaO	6.2	LOI	6.5
Na ₂ O	1.5	S	2.1
C	1.8		

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-1308

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-1308-1	1.33	1.49	1.48	1.34	1.53	1.37	1.28	1.35	1.44	1.43	1.51	1.34	1.47	1.41	1.35
ME-1308-2	1.42	1.39	1.38	1.39	1.37	1.40	1.24	1.35	1.41	1.44	1.47	1.31	1.49	1.38	1.37
ME-1308-3	1.30	1.40	1.44	1.37	1.41	1.40	1.21	1.33	1.33	1.41	1.44	1.40	1.45	1.38	1.40
ME-1308-4	1.40	1.44	1.40	1.36	1.55	1.41	1.26	1.37	1.41	1.41	1.40	1.37	1.47	1.46	1.36
ME-1308-5	1.33	1.41	1.43	1.39	1.30	1.33	1.28	1.35	1.42	1.43	1.49	1.36	1.51	1.46	1.38
ME-1308-6	1.39	1.39	1.49	1.35	1.31	1.35	1.25	1.34	1.47	1.47	1.50	1.31	1.56	1.32	1.44
ME-1308-7	1.33	1.34	1.39	1.40	1.40	1.39	1.26	1.41	1.36	1.43	1.53	1.34	1.55	1.40	1.36
ME-1308-8	1.39	1.45	1.43	1.37	1.33	1.35	1.26	1.41	1.34	1.44	1.48	1.33	1.42	1.30	1.39
ME-1308-9	1.31	1.32	1.47	1.38	1.38	1.34	1.26	1.45	1.33	1.36	1.57	1.34	1.39	1.44	1.47
ME-1308-10	1.39	1.42	1.48	1.40	1.42	1.42	1.19	1.58	1.34	1.43	1.47	1.41	1.48	1.43	1.38
Mean	1.36	1.40	1.44	1.38	1.40	1.38	1.25	1.39	1.39	1.42	1.49	1.35	1.48	1.40	1.39
Std. Devn.	0.0418	0.0506	0.0401	0.0207	0.0845	0.0318	0.0299	0.0762	0.0510	0.0289	0.0470	0.0341	0.0533	0.0547	0.0380
% RSD	3.08	3.61	2.79	1.50	6.03	2.31	2.39	5.47	3.69	2.03	3.16	2.53	3.61	3.91	2.73
	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-1308-1	44.2	45	44.0	41.8	43.4	50	47.6	44.1	49	43.3	48	46	46.2	46.6	44
ME-1308-2	44.1	45	46.5	41.4	45.2	49	46.2	44.4	49	43.4	47	45	46.2	47.3	46
ME-1308-3	46.8	46	44.5	41.7	45.5	47	48.1	45.0	57	43.7	47	45	44.4	45.3	48
ME-1308-4	43.9	46	45.0	42.9	44.6	48	47.4	44.1	48	42.1	49	43	45.3	46.0	46
ME-1308-5	44.0	47	47.0	43.1	44.0	48	46.7	43.9	48	42.9	51	44	45.3	46.9	45
ME-1308-6	44.1	46	46.0	42.3	45.7	49	46.1	44.4	49	41.7	48	45	45.1	49.3	43
ME-1308-7	45.1	46	46.0	41.2	45.3	49	48.3	45.5	49	44.3	49	44	45.8	48.9	44
ME-1308-8	44.2	48	43.5	42.3	45.1	48	46.5	44.4	51	40.0	48	44	44.6	47.2	45
ME-1308-9	45.0	48	45.5	41.5	46.1	48	46.3	44.9	52	43.5	48	44	45.4	48.0	43
ME-1308-10	44.8	45	43.0	41.7	45.5	47	46.6	45.4	49	41.0	48	44	46.9	48.4	46
Mean	44.6	46.2	45.1	42.0	45.0	48.3	47.0	44.6	50.1	42.6	48.3	44.4	45.5	47.4	45.0
Std. Devn.	0.8791	1.1353	1.3292	0.6385	0.8195	0.9487	0.8066	0.5587	2.7264	1.3544	1.1595	0.8433	0.7671	1.2706	1.5635
% RSD	1.97	2.46	2.95	1.52	1.82	1.96	1.72	1.25	5.44	3.18	2.40	1.90	1.69	2.68	3.47

Note: Au data from laboratory 7 was removed for failing the t test.

REFERENCE MATERIAL CDN-ME-1308

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-1308-1	0.395	0.395	0.403	0.378	0.374	0.416	0.393	0.403	0.383	0.370	0.395	0.406	0.399	0.407	0.405
ME-1308-2	0.402	0.403	0.396	0.374	0.387	0.409	0.403	0.403	0.382	0.360	0.394	0.393	0.400	0.402	0.409
ME-1308-3	0.403	0.401	0.400	0.381	0.392	0.406	0.405	0.403	0.389	0.370	0.398	0.39	0.385	0.400	0.410
ME-1308-4	0.405	0.403	0.404	0.384	0.387	0.399	0.404	0.404	0.379	0.370	0.394	0.389	0.390	0.410	0.396
ME-1308-5	0.402	0.405	0.401	0.373	0.390	0.407	0.403	0.414	0.378	0.360	0.392	0.399	0.387	0.417	0.394
ME-1308-6	0.391	0.401	0.398	0.380	0.388	0.409	0.392	0.409	0.385	0.370	0.394	0.396	0.389	0.408	0.388
ME-1308-7	0.397	0.406	0.396	0.374	0.391	0.410	0.391	0.412	0.385	0.370	0.386	0.404	0.386	0.413	0.388
ME-1308-8	0.395	0.406	0.394	0.377	0.398	0.402	0.403	0.402	0.390	0.360	0.378	0.404	0.388	0.407	0.399
ME-1308-9	0.410	0.412	0.403	0.375	0.388	0.400	0.390	0.404	0.390	0.370	0.394	0.396	0.395	0.409	0.390
ME-1308-10	0.401	0.392	0.397	0.373	0.390	0.402	0.392	0.409	0.390	0.370	0.381	0.395	0.392	0.409	0.399
Mean	0.400	0.402	0.399	0.377	0.389	0.406	0.398	0.406	0.385	0.367	0.391	0.397	0.391	0.408	0.398
Std. Devn.	0.0056	0.0057	0.0035	0.0039	0.0060	0.0053	0.0064	0.0043	0.0046	0.0048	0.0066	0.0059	0.0053	0.0050	0.0082
% RSD	1.39	1.42	0.87	1.04	1.56	1.30	1.61	1.05	1.19	1.32	1.69	1.50	1.36	1.23	2.05
	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb
ME-1308-1	0.544	0.558	0.524	0.535	0.534	0.56	0.521	0.528	0.497	0.500	0.551	0.546	0.559	0.522	0.557
ME-1308-2	0.544	0.569	0.525	0.525	0.548	0.56	0.520	0.530	0.494	0.510	0.553	0.547	0.549	0.516	0.567
ME-1308-3	0.553	0.567	0.525	0.537	0.561	0.54	0.528	0.534	0.507	0.500	0.549	0.548	0.536	0.518	0.566
ME-1308-4	0.549	0.567	0.531	0.538	0.546	0.54	0.527	0.530	0.500	0.510	0.551	0.547	0.542	0.512	0.546
ME-1308-5	0.550	0.572	0.542	0.529	0.556	0.54	0.517	0.536	0.497	0.500	0.554	0.550	0.542	0.536	0.546
ME-1308-6	0.544	0.563	0.542	0.531	0.552	0.53	0.519	0.529	0.487	0.510	0.556	0.547	0.539	0.526	0.547
ME-1308-7	0.544	0.566	0.529	0.516	0.555	0.55	0.518	0.537	0.499	0.500	0.550	0.547	0.552	0.525	0.548
ME-1308-8	0.544	0.575	0.533	0.536	0.562	0.52	0.522	0.526	0.504	0.490	0.554	0.547	0.537	0.529	0.551
ME-1308-9	0.556	0.562	0.534	0.534	0.558	0.52	0.525	0.530	0.503	0.500	0.554	0.555	0.551	0.522	0.541
ME-1308-10	0.553	0.543	0.526	0.536	0.563	0.53	0.529	0.539	0.497	0.510	0.546	0.541	0.548	0.523	0.555
Mean	0.548	0.564	0.531	0.532	0.554	0.539	0.523	0.532	0.499	0.503	0.552	0.548	0.546	0.523	0.552
Std. Devn.	0.0046	0.0089	0.0067	0.0070	0.0089	0.0145	0.0044	0.0044	0.0056	0.0067	0.0030	0.0035	0.0075	0.0069	0.0087
% RSD	0.84	1.58	1.26	1.31	1.61	2.69	0.83	0.83	1.13	1.34	0.54	0.63	1.37	1.31	1.58
	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn
ME-1308-1	0.433	0.444	0.426	0.396	0.429	0.417	0.420	0.417	0.420	0.400	0.433	0.446	0.438	0.430	0.437
ME-1308-2	0.431	0.455	0.429	0.398	0.441	0.416	0.422	0.416	0.421	0.400	0.430	0.445	0.442	0.415	0.443
ME-1308-3	0.439	0.457	0.434	0.403	0.447	0.416	0.428	0.416	0.422	0.390	0.428	0.446	0.426	0.425	0.448
ME-1308-4	0.436	0.453	0.434	0.401	0.445	0.424	0.431	0.424	0.424	0.400	0.433	0.448	0.433	0.418	0.429
ME-1308-5	0.433	0.461	0.436	0.419	0.442	0.426	0.432	0.426	0.409	0.390	0.430	0.446	0.423	0.427	0.424
ME-1308-6	0.433	0.456	0.433	0.399	0.444	0.429	0.423	0.429	0.399	0.400	0.435	0.446	0.429	0.422	0.431
ME-1308-7	0.433	0.459	0.423	0.395	0.436	0.427	0.419	0.427	0.424	0.400	0.431	0.447	0.425	0.416	0.427
ME-1308-8	0.427	0.465	0.425	0.408	0.446	0.421	0.424	0.421	0.403	0.390	0.431	0.446	0.421	0.428	0.433
ME-1308-9	0.436	0.461	0.432	0.404	0.445	0.416	0.419	0.416	0.432	0.390	0.431	0.452	0.433	0.419	0.418
ME-1308-10	0.437	0.437	0.423	0.398	0.451	0.425	0.424	0.425	0.427	0.400	0.427	0.446	0.432	0.430	0.429
Mean	0.434	0.455	0.430	0.402	0.443	0.422	0.424	0.422	0.418	0.396	0.431	0.447	0.430	0.423	0.432
Std. Devn.	0.0035	0.0084	0.0049	0.0070	0.0062	0.0050	0.0047	0.0050	0.0108	0.0052	0.0024	0.0020	0.0067	0.0058	0.0089
% RSD	0.81	1.86	1.15	1.74	1.40	1.19	1.11	1.19	2.58	1.30	0.55	0.45	1.55	1.36	2.05

Note: Cu data from laboratories 4 and 10 was removed for failing the t test.
Pb data from laboratories 9 and 10 was removed for failing the t test.
Zn data from laboratories 2 and 10 was removed for failing the t test.

REFERENCE MATERIAL CDN-ME-1308

Participating Laboratories:

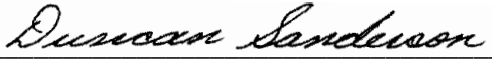
(not in same order as listed in table of results)

Acme Analytical Laboratories Ltd., Vancouver, BC, Canada
Actlabs, Ancaster, Ontario, Canada
Actlabs, Kamloops, BC, Canada
Actlabs, Thunder Bay, Ontario, Canada
ALS Canada Inc., North Vancouver, BC, Canada
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American Assay Laboratories Inc., Sparks, Nevada, USA
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Certified by


Duncan Sanderson, Certified Assayer of B.C.

Geochemist


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