

CDN Resource Laboratories Ltd.

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REFERENCE MATERIAL: CDN-ME-1402

Recommended values and the “Between Lab” Two Standard Deviations

<i>Gold</i>	<i>13.90 g/t ± 0.80 g/t</i>	<i>Certified value</i>
<i>Silver</i>	<i>131 g/t ± 7 g/t</i>	<i>Certified value</i>
<i>Copper</i>	<i>2.90 % ± 0.16 %</i>	<i>Certified value</i>
<i>Lead</i>	<i>2.48 % ± 0.11 %</i>	<i>Certified value</i>
<i>Zinc</i>	<i>15.23 % ± 0.67 %</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: March 14, 2014

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	36.3	MgO	1.6
Al ₂ O ₃	9.0	K ₂ O	1.1
Fe ₂ O ₃	14.8	TiO ₂	0.3
CaO	3.1	LOI	9.0
Na ₂ O	1.6	S	12.5
C	0.2		

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.

Assay Procedures:

Au: Fire assay pre-concentration, gravimetric finish.
Ag, Cu, Pb, Zn: 4-acid digestion, AA or ICP finish.

REFERENCE MATERIAL CDN-ME-1402

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-1402-1	13.64	14.1	13.5	14.30	13.55	14.70	14.20	15.76	14.11	14.26	13.7	13.97	13.44	13.88	13.8
ME-1402-2	14.12	13.7	14.6	13.95	13.75	14.10	13.13	15.08	13.74	14.21	14.0	13.76	14.19	13.43	13.6
ME-1402-3	13.90	14.1	13.5	13.60	13.95	15.25	14.20	15.22	13.88	14.49	14.1	13.83	12.71	13.32	14.2
ME-1402-4	14.08	14.5	14.5	13.85	13.90	14.10	13.73	14.25	13.74	14.21	14.0	13.51	14.02	13.66	13.7
ME-1402-5	14.09	14.1	14.3	13.65	13.35	14.85	14.47	14.39	13.81	14.06	14.2	13.75	14.20	13.93	14.0
ME-1402-6	13.10	14.4	13.8	14.00	13.15	15.10	13.00	15.06	13.91	13.55	13.7	14.34	13.22	13.78	13.6
ME-1402-7	14.65	13.6	13.7	13.70	13.25	14.50	13.87	15.57	13.75	14.22	13.7	13.74	14.00	13.59	13.6
ME-1402-8	13.04	13.6	12.8	13.60	13.15	14.85	13.40	15.10	13.85	13.64	13.9	13.73	14.08	13.10	14.2
ME-1402-9	13.27	14.4	13.4	14.20	13.60	14.40	13.99	14.53	14.10	14.25	14.0	14.29	13.18	13.37	14.2
ME-1402-10	13.98	14.0	12.9	13.85	13.85	15.15	13.67	14.79	13.99	14.59	14.2	14.08	14.03	13.86	13.6
Mean	13.79	14.05	13.70	13.87	13.55	14.70	13.77	14.98	13.89	14.15	13.95	13.90	13.71	13.59	13.85
Std. Devn.	0.5166	0.3308	0.6182	0.2452	0.3100	0.4163	0.4795	0.4904	0.1397	0.3286	0.1958	0.2660	0.5253	0.2789	0.2718
% RSD	3.75	2.35	4.51	1.77	2.29	2.83	3.48	3.27	1.01	2.32	1.40	1.91	3.83	2.05	1.96
	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-1402-1	135	128	137	137	126	130	127	129	132	130	118	129	114	126	125
ME-1402-2	134	135	132	136	128	136	118	131	133	134	118	128	113	128	122
ME-1402-3	136	129	133	134	126	132	125	132	132	135	112	130	116	128	126
ME-1402-4	135	129	134	134	127	131	128	131	133	135	115	132	114	126	123
ME-1402-5	135	130	132	131	128	135	132	132	134	136	117	130	117	127	123
ME-1402-6	135	134	135	134	126	132	126	130	132	132	114	129	116	126	126
ME-1402-7	134	129	132	134	122	136	132	130	133	129	115	131	118	126	124
ME-1402-8	133	131	136	132	127	133	130	132	132	136	117	129	113	127	124
ME-1402-9	132	130	137	137	130	133	120	130	132	140	117	130	118	128	125
ME-1402-10	131	130	135	135	130	135	128	129	132	135	116	127	112	127	121
Mean	134	131	134	134	127	133	127	130	133	134	116	130	115	127	124
Std. Devn.	1.5635	2.2730	2.0028	1.9551	2.3094	2.1108	4.6476	1.0799	0.7071	3.1903	1.7742	1.4337	2.1833	0.9143	1.6633
% RSD	1.17	1.74	1.49	1.45	1.82	1.58	3.67	0.83	0.53	2.38	1.53	1.11	1.90	0.72	1.34

Notes: Ag data from laboratories 11 and 13 was removed for failing the t test.

Laboratory 7 used a gravimetric finish for Ag; all the others used an instrumental finish.

REFERENCE MATERIAL CDN-ME-1402

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-1402-1	2.85	2.82	3.05	2.91	2.81	2.89	3.01	2.79	2.88	2.87	3.04	2.91	2.79	2.76	2.99
ME-1402-2	2.83	2.99	2.95	2.85	2.85	2.98	2.87	2.81	2.85	2.91	3.05	2.94	2.79	2.78	2.99
ME-1402-3	2.77	2.88	2.92	2.85	2.83	2.97	3.02	2.82	2.87	2.88	3.02	2.92	2.83	2.80	2.96
ME-1402-4	2.85	2.89	3.00	2.85	2.84	3.06	3.05	2.81	2.90	2.94	3.00	2.96	2.82	2.81	2.98
ME-1402-5	2.85	2.94	2.90	2.86	2.83	3.00	3.02	2.80	2.89	2.91	3.05	2.93	2.83	2.80	2.96
ME-1402-6	2.87	2.88	2.94	2.81	2.82	2.93	3.00	2.84	2.89	2.95	3.08	2.94	2.81	2.80	3.02
ME-1402-7	2.82	2.89	2.90	2.90	2.88	3.00	3.15	2.77	2.89	2.96	3.04	2.95	2.81	2.76	3.02
ME-1402-8	2.80	2.90	3.02	2.83	2.83	2.93	2.92	2.78	2.91	2.91	3.06	2.95	2.77	2.85	3.01
ME-1402-9	2.71	2.92	2.94	2.89	2.85	2.96	2.94	2.79	2.93	2.95	3.05	2.93	2.83	2.84	2.99
ME-1402-10	2.83	2.86	2.93	2.88	2.89	2.95	3.08	2.76	2.91	2.89	3.06	2.93	2.84	2.80	3.02
Mean	2.82	2.90	2.96	2.86	2.84	2.97	3.01	2.80	2.89	2.92	3.05	2.94	2.81	2.80	2.99
Std. Devn.	0.0474	0.0460	0.0513	0.0316	0.0254	0.0472	0.0807	0.0244	0.0225	0.0307	0.0222	0.0151	0.0225	0.0301	0.0232
% RSD	1.68	1.59	1.73	1.11	0.89	1.59	2.68	0.87	0.78	1.05	0.73	0.51	0.80	1.07	0.77
	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb
ME-1402-1	2.40	2.38	2.54	2.52	2.43	2.47	2.43	2.53	2.56	2.50	2.38	2.47	2.44	2.43	2.34
ME-1402-2	2.36	2.51	2.46	2.52	2.47	2.53	2.31	2.50	2.54	2.54	2.35	2.46	2.48	2.44	2.29
ME-1402-3	2.44	2.41	2.46	2.48	2.41	2.48	2.43	2.52	2.55	2.53	2.39	2.47	2.47	2.45	2.38
ME-1402-4	2.38	2.44	2.46	2.50	2.44	2.50	2.48	2.57	2.56	2.56	2.42	2.53	2.44	2.41	2.28
ME-1402-5	2.38	2.46	2.52	2.47	2.46	2.54	2.53	2.53	2.57	2.54	2.43	2.48	2.50	2.42	2.30
ME-1402-6	2.42	2.44	2.52	2.51	2.42	2.44	2.44	2.54	2.57	2.58	2.44	2.48	2.51	2.44	2.33
ME-1402-7	2.36	2.42	2.45	2.49	2.35	2.56	2.54	2.49	2.55	2.49	2.43	2.50	2.45	2.42	2.32
ME-1402-8	2.37	2.47	2.55	2.45	2.45	2.49	2.49	2.52	2.55	2.56	2.43	2.48	2.45	2.43	2.29
ME-1402-9	2.40	2.45	2.48	2.56	2.49	2.49	2.42	2.52	2.56	2.59	2.37	2.47	2.49	2.44	2.38
ME-1402-10	2.32	2.44	2.50	2.51	2.51	2.51	2.49	2.51	2.54	2.54	2.40	2.46	2.52	2.43	2.28
Mean	2.38	2.44	2.49	2.50	2.44	2.50	2.46	2.52	2.56	2.55	2.40	2.48	2.48	2.43	2.32
Std. Devn.	0.0340	0.0352	0.0369	0.0307	0.0450	0.0354	0.0663	0.0214	0.0108	0.0311	0.0306	0.0211	0.0295	0.0124	0.0381
% RSD	1.43	1.44	1.48	1.23	1.84	1.42	2.70	0.85	0.42	1.22	1.27	0.85	1.19	0.51	1.64
	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn
ME-1402-1	15.2	15.1	15.3	15.8	15.2	15.3	14.9	15.4	15.2	15.3	13.4	14.3	15.0	14.7	15.6
ME-1402-2	14.9	15.6	14.9	15.5	15.6	15.6	14.3	15.2	15.3	15.5	13.4	14.7	15.0	14.8	15.4
ME-1402-3	14.5	15.0	14.9	15.6	15.2	15.5	14.9	15.2	15.3	15.4	13.3	14.2	15.1	14.8	15.5
ME-1402-4	15.0	15.1	15.1	15.5	15.4	16.0	15.6	16.0	15.3	15.6	13.3	14.6	15.2	14.6	15.4
ME-1402-5	15.1	15.4	14.9	15.6	15.2	15.8	15.7	15.9	15.3	15.0	13.5	14.5	15.2	14.6	15.6
ME-1402-6	15.2	15.3	15.5	15.4	15.3	15.4	15.3	15.9	15.2	15.6	13.6	14.5	15.2	14.8	15.4
ME-1402-7	14.9	15.1	15.0	15.9	15.6	15.7	15.7	15.4	15.1	15.6	13.5	14.5	15.2	14.6	15.5
ME-1402-8	15.0	15.4	15.4	15.6	15.3	15.4	15.2	15.3	15.1	15.6	13.6	14.5	14.8	14.7	15.5
ME-1402-9	14.2	15.3	15.1	15.7	15.5	15.5	15.0	15.5	15.1	15.7	13.6	14.7	15.2	14.7	15.7
ME-1402-10	15.2	15.1	15.0	15.7	15.6	15.5	15.4	15.3	15.2	15.0	13.6	14.4	15.3	14.7	15.4
Mean	14.9	15.2	15.1	15.6	15.4	15.6	15.2	15.5	15.2	15.4	13.5	14.5	15.1	14.7	15.5
Std. Devn.	0.3256	0.1897	0.2183	0.1435	0.1787	0.2273	0.4375	0.3019	0.0871	0.2389	0.1096	0.1678	0.1476	0.0666	0.1054
% RSD	2.18	1.24	1.44	0.92	1.16	1.46	2.87	1.95	0.57	1.55	0.81	1.16	0.98	0.45	0.68

Notes:

**Pb data from laboratory 15 was removed for failing the t test.
Zn data from laboratory 11 was removed for failing the t test.**

REFERENCE MATERIAL CDN-ME-1402

Participating Laboratories:

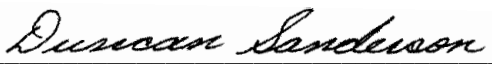
(not in same order as listed in table of results)

Acme Analytical Laboratories Ltd., Vancouver, BC, Canada
Actlabs, Ancaster, Ontario, Canada
Actlabs, Thunder Bay, Ontario, Canada
ALS Brisbane, Australia
ALS Canada Inc., North Vancouver, BC, Canada
ALS, Loughrea, Ireland (Omac)
American Assay Laboratories Inc., Sparks, Nevada, USA
Alex Stewart Assayers, Argentina
Certimin, Lima, Peru
Genalysis, Perth, Australia
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Certified by



Duncan Sanderson, Certified Assayer of B.C.

Geochemist



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