

# CDN Resource Laboratories Ltd.

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## REFERENCE MATERIAL: CDN-ME-1210

Recommended values and the “Between Lab” Two Standard Deviations

<i>Silver</i>	<i>66.5 g/t ± 5.6 g/t</i>	<i>Certified value</i>
<i>Copper</i>	<i>0.249 % ± 0.022 %</i>	<i>Certified value</i>
<i>Zinc</i>	<i>0.253 % ± 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:** January 10, 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:**

The material for CDN-ME-1210 was supplied by Amarc Resources Ltd. from their Silver Vista property. It is described as an immature, fossiliferous sand- and siltstone from central British Columbia hosting fine disseminated Ag-Cu mineralization. The primary ore mineralogy includes native silver, argentite/acanthite, argentiferous chalcocite & digenite, Ag-tennantite, chalcocite, digenite/bornite, chalcopyrite and covellite.

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

	Percent		Percent
SiO <sub>2</sub>	67.8	MgO	0.4
Al <sub>2</sub> O <sub>3</sub>	13.0	K <sub>2</sub> O	0.2
Fe <sub>2</sub> O <sub>3</sub>	6.5	TiO <sub>2</sub>	0.7
CaO	1.6	LOI	8.6
Na <sub>2</sub> O	0.1	S	0.1
C	0.6		

### **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  $\pm 2$  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.

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**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
	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-1210-1	70.0	66.5	71.7	72.8	65	65.6	71.4	69.9	64.9	64.5	62.8	60.6	64.2	66.4	67.7
ME-1210-2	70.0	66.5	71.8	73.9	65	65.3	74.5	66.7	66.5	66.1	62.9	62.4	63.8	66.2	65.4
ME-1210-3	68.7	67.1	73.1	70.9	65	65.3	67.2	66.6	65.8	66.3	63.2	60.4	64.3	66.7	65.9
ME-1210-4	68.9	67.4	69.0	70.0	65	65.8	72.6	66.5	66.3	66.1	63.0	61.2	64.8	66.6	66.0
ME-1210-5	62.8	67.0	68.1	69.0	64	66.4	71.5	66.4	65.1	64.8	63.4	61.5	64.5	67.1	66.9
ME-1210-6	72.8	66.7	69.1	72.0	63	66.1	69.2	65.8	66.9	66.3	63.0	60.6	64.5	67.3	68.2
ME-1210-7	67.3	67.1	68.0	71.1	66	67.1	69.5	67.7	64.9	66.2	62.6	60.8	62.9	66.9	67.2
ME-1210-8	70.3	67.2	68.7	72.5	65	67.2	70.3	67.5	67.4	65.2	62.6	63.2	63.8	67.2	66.9
ME-1210-9	71.5	67.9	70.3	73.4	64	68.7	70.7	68.5	66.5	65.9	62.1	61.3	63.5	66.8	66.7
ME-1210-10	73.3	68.0	70.5	71.4	63	66.2	71.7	69.1	65.9	64.2	63.0	61.6	64.7	65.9	67.2
Mean	69.6	67.1	70.0	71.7	64.5	66.4	70.9	67.5	66.0	65.6	62.9	61.4	64.1	66.7	66.8
Std. Devn.	3.0030	0.5190	1.7378	1.5253	0.9718	1.0520	2.0007	1.3292	0.8587	0.8033	0.3627	0.8796	0.5963	0.4483	0.8517
% RSD	4.32	0.77	2.48	2.13	1.51	1.59	2.82	1.97	1.30	1.23	0.58	1.43	0.93	0.67	1.27
	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu
ME-1210-1	0.250	0.248	0.280	0.278	0.246	0.245	0.248	0.253	0.23	0.236	0.229	0.246	0.257	0.261	0.260
ME-1210-2	0.248	0.243	0.277	0.284	0.245	0.244	0.249	0.241	0.23	0.245	0.231	0.253	0.257	0.261	0.265
ME-1210-3	0.244	0.254	0.282	0.271	0.247	0.246	0.244	0.250	0.23	0.244	0.235	0.249	0.259	0.258	0.262
ME-1210-4	0.241	0.247	0.270	0.274	0.244	0.246	0.247	0.257	0.23	0.242	0.234	0.240	0.257	0.264	0.261
ME-1210-5	0.221	0.245	0.263	0.264	0.244	0.247	0.247	0.239	0.24	0.241	0.235	0.252	0.260	0.264	0.261
ME-1210-6	0.254	0.246	0.271	0.277	0.240	0.244	0.245	0.255	0.24	0.228	0.233	0.253	0.260	0.270	0.257
ME-1210-7	0.235	0.253	0.262	0.277	0.246	0.249	0.247	0.252	0.23	0.244	0.235	0.253	0.253	0.266	0.257
ME-1210-8	0.243	0.248	0.263	0.281	0.248	0.248	0.249	0.258	0.24	0.242	0.236	0.249	0.259	0.270	0.258
ME-1210-9	0.249	0.252	0.270	0.281	0.244	0.252	0.245	0.261	0.23	0.240	0.232	0.248	0.257	0.268	0.258
ME-1210-10	0.256	0.247	0.272	0.271	0.247	0.246	0.247	0.249	0.23	0.243	0.229	0.247	0.256	0.263	0.260
Mean	0.244	0.248	0.271	0.276	0.245	0.247	0.247	0.252	0.233	0.241	0.233	0.249	0.257	0.265	0.260
Std. Devn.	0.0102	0.0036	0.0071	0.0059	0.0023	0.0024	0.0017	0.0071	0.0048	0.0053	0.0026	0.0041	0.0020	0.0041	0.0025
% RSD	4.19	1.45	2.61	2.15	0.93	0.98	0.68	2.82	2.07	2.19	1.10	1.65	0.80	1.56	0.97
	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn
ME-1210-1	0.26	0.255	0.266	0.260	0.250	0.253	0.259	0.231	0.25	0.242	0.227	0.233	0.253	0.251	0.265
ME-1210-2	0.26	0.255	0.264	0.263	0.250	0.251	0.261	0.220	0.25	0.250	0.227	0.234	0.256	0.252	0.262
ME-1210-3	0.25	0.261	0.273	0.254	0.252	0.257	0.261	0.225	0.25	0.251	0.233	0.226	0.257	0.249	0.266
ME-1210-4	0.24	0.262	0.258	0.253	0.251	0.255	0.266	0.230	0.28	0.243	0.234	0.221	0.262	0.250	0.266
ME-1210-5	0.22	0.256	0.256	0.247	0.254	0.253	0.261	0.219	0.27	0.243	0.232	0.232	0.254	0.250	0.265
ME-1210-6	0.26	0.256	0.255	0.257	0.248	0.253	0.267	0.229	0.26	0.236	0.232	0.231	0.261	0.249	0.262
ME-1210-7	0.24	0.260	0.254	0.255	0.252	0.261	0.257	0.226	0.26	0.247	0.233	0.232	0.255	0.250	0.259
ME-1210-8	0.24	0.258	0.256	0.254	0.254	0.260	0.262	0.239	0.26	0.247	0.235	0.235	0.262	0.251	0.258
ME-1210-9	0.25	0.261	0.260	0.263	0.246	0.262	0.264	0.232	0.25	0.242	0.232	0.241	0.255	0.252	0.261
ME-1210-10	0.26	0.260	0.262	0.254	0.248	0.261	0.262	0.228	0.26	0.249	0.232	0.239	0.257	0.249	0.260
Mean	0.248	0.258	0.260	0.256	0.251	0.257	0.262	0.228	0.259	0.245	0.232	0.232	0.257	0.250	0.262
Std. Devn.	0.0132	0.0027	0.0060	0.0049	0.0026	0.0040	0.0031	0.0059	0.0099	0.0045	0.0027	0.0058	0.0034	0.0012	0.0030
% RSD	5.31	1.05	2.29	1.92	1.05	1.55	1.17	2.57	3.84	1.85	1.15	2.49	1.32	0.48	1.12

**Note: Cu data from Lab 4 was removed for failing the t test.  
Zn data from Lab 8 was removed for failing the t test.**

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**Participating Laboratories:**

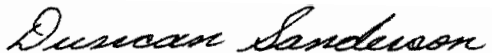
(not in same order as listed in table of results)

Acme Analytical Laboratories Ltd., Vancouver, B.C., Canada  
Acme Analytical Laboratories Ltd., Santiago, Chile  
Actlabs, Ancaster, Ontario, Canada  
Actlabs, Thunder Bay, Ontario, Canada  
AGAT, Mississauga, Ontario, Canada  
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TSL Laboratories, Saskatoon, Canada  
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Certified by

  
Duncan Sanderson, Certified Assayer of B.C.

Geochemist

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