

# CDN Resource Laboratories Ltd.

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## REFERENCE MATERIAL: CDN-ME-10

Recommended values and the “Between Lab” Two Standard Deviations

<i>Gold</i>	<i>0.077 g/t</i>				<i>(Au: indicated value only, RSD = 17%)</i>
<i>Platinum</i>	<i>0.299 g/t</i>	$\pm$	<i>0.036 g/t</i>		
<i>Palladium</i>	<i>0.603 g/t</i>	$\pm$	<i>0.046 g/t</i>		
<i>Copper</i>	<i>0.443 %</i>	$\pm$	<i>0.020%</i>		
<i>Cobalt</i>	<i>0.011 %</i>	$\pm$	<i>0.002%</i>		
<i>Nickel</i>	<i>0.428%</i>	$\pm$	<i>0.024%</i>		

**Note:** Standards with an RSD of near or less than 5% are certified, RSD's of between 5% and 15% are Provisional, and 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:** February 20, 2010

### **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 fifteen laboratories for round robin assaying.

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

This standard is made from a mixture of several ores: 565 kg from Teck's Mesaba property in Minnesota, 105 kg of FNX Mining ore from the Sudbury Basin and 30 kg from Xstrata's Raglan mine in Quebec.

**Approximate chemical composition is as follows:**

	Percent			Percent
SiO <sub>2</sub>	46.2		MgO	6.8
Al <sub>2</sub> O <sub>3</sub>	12.5		K <sub>2</sub> O	0.8
Fe <sub>2</sub> O <sub>3</sub>	21.0		TiO <sub>2</sub>	0.9
CaO	6.4		LOI	1.6
Na <sub>2</sub> O	2.5		S	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  $\pm 2$  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, Pt, Pd:** Fire assay pre-concentration, AA or ICP finish (30g sub-sample).  
**Cu, Co, Ni:** 4-acid digestion, AA or ICP finish.

## REFERENCE MATERIAL CDN-ME-10

### 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-10-1	0.082	0.108	0.082	0.06	0.062	0.086	0.072	0.059	0.066	0.068	0.066	0.09	0.081	0.097	0.109
ME-10-2	0.071	0.111	0.073	0.09	0.050	0.089	0.067	0.093	0.056	0.074	0.065	0.09	0.074	0.100	0.074
ME-10-3	0.078	0.077	0.088	0.07	0.071	0.119	0.063	0.067	0.067	0.053	0.066	0.08	0.070	0.099	0.085
ME-10-4	0.080	0.057	0.081	0.08	0.074	0.061	0.083	0.127	0.125	0.094	0.068	0.09	0.091	0.068	0.103
ME-10-5	0.072	0.115	0.08	0.08	0.108	0.069	0.099	0.071	0.105	0.074	0.071	0.09	0.078	0.080	0.077
ME-10-6	0.064	0.070	0.078	0.09	0.064	0.074	0.104	0.056	0.081	0.067	0.064	0.08	0.073	0.076	0.066
ME-10-7	0.066	0.081	0.086	0.07	0.081	0.073	0.074	0.054	0.079	0.061	0.076	0.09	0.058	0.080	0.092
ME-10-8	0.064	0.084	0.076	0.08	0.065	0.101	0.094	0.079	0.073	0.092	0.074	0.07	0.063	0.070	0.074
ME-10-9	0.076	0.103	0.078	0.09	0.061	0.056	0.087	0.055	0.061	0.071	0.070	0.08	0.105	0.070	0.082
ME-10-10	0.074	0.076	0.085	0.06	0.067	0.100	0.091	0.058	0.053	0.074	0.064	0.08	0.102	0.078	0.075
Mean	0.073	0.088	0.081	0.076	0.070	0.083	0.083	0.072	0.077	0.073	0.068	0.084	0.080	0.082	0.084
Std. Devn.	0.0065	0.0197	0.0047	0.0110	0.0156	0.0198	0.0140	0.0230	0.0226	0.0125	0.0042	0.0070	0.0157	0.0124	0.0138
% RSD	8.94	22.35	5.81	14.48	22.22	23.96	16.74	32.04	29.57	17.15	6.17	8.32	19.67	15.15	16.46
	Pt g/t	Pt g/t	Pt g/t	Pt g/t	Pt g/t	Pt g/t	Pt g/t	Pt g/t	Pt g/t	Pt g/t	Pt g/t	Pt g/t	Pt g/t	Pt g/t	Pt g/t
ME-10-1	0.276	0.313	0.286	0.29	0.314	0.344	0.274	0.300	0.295	0.273		0.33	0.280	0.255	0.277
ME-10-2	0.277	0.327	0.276	0.32	0.294	0.318	0.299	0.270	0.329	0.268		0.32	0.289	0.257	0.376
ME-10-3	0.301	0.309	0.304	0.32	0.297	0.305	0.280	0.270	0.307	0.272		0.31	0.306	0.260	0.293
ME-10-4	0.293	0.324	0.291	0.31	0.309	0.304	0.306	0.290	0.300	0.291		0.30	0.326	0.268	0.349
ME-10-5	0.273	0.307	0.311	0.33	0.302	0.317	0.307	0.310	0.317	0.270		0.32	0.266	0.249	0.394
ME-10-6	0.291	0.310	0.295	0.31	0.313	0.292	0.279	0.310	0.280	0.297		0.34	0.302	0.260	0.378
ME-10-7	0.282	0.342	0.291	0.32	0.288	0.308	0.309	0.290	0.304	0.279		0.31	0.278	0.240	0.276
ME-10-8	0.288	0.344	0.293	0.29	0.287	0.288	0.304	0.270	0.305	0.282		0.33	0.322	0.267	0.289
ME-10-9	0.294	0.328	0.281	0.30	0.282	0.274	0.299	0.290	0.297	0.295		0.30	0.310	0.260	0.324
ME-10-10	0.276	0.315	0.287	0.28	0.302	0.289	0.294	0.280	0.301	0.293		0.32	0.285	0.255	0.340
Mean	0.285	0.322	0.292	0.307	0.299	0.304	0.295	0.288	0.304	0.282		0.318	0.296	0.257	0.330
Std. Devn.	0.0096	0.0134	0.0103	0.0168	0.0112	0.0197	0.0129	0.0155	0.0130	0.0112		0.0132	0.0198	0.0082	0.0445
% RSD	3.36	4.16	3.53	5.45	3.74	6.50	4.37	5.38	4.30	3.97		4.14	6.70	3.20	13.49
	Pd g/t	Pd g/t	Pd g/t	Pd g/t	Pd g/t	Pd g/t	Pd g/t	Pd g/t	Pd g/t	Pd g/t	Pd g/t	Pd g/t	Pd g/t	Pd g/t	Pd g/t
ME-10-1	0.611	0.644	0.560	0.62	0.581	0.613	0.579	0.576	0.613	0.605		0.61	0.583	0.548	0.570
ME-10-2	0.606	0.621	0.567	0.66	0.586	0.632	0.566	0.577	0.630	0.587		0.62	0.603	0.567	0.582
ME-10-3	0.583	0.650	0.596	0.64	0.603	0.602	0.590	0.581	0.616	0.579		0.61	0.603	0.563	0.567
ME-10-4	0.606	0.638	0.604	0.61	0.626	0.618	0.590	0.585	0.616	0.586		0.64	0.622	0.568	0.585
ME-10-5	0.576	0.642	0.575	0.59	0.599	0.626	0.587	0.582	0.644	0.580		0.62	0.568	0.562	0.592
ME-10-6	0.582	0.629	0.602	0.64	0.599	0.629	0.577	0.587	0.628	0.592		0.62	0.593	0.544	0.606
ME-10-7	0.594	0.642	0.618	0.63	0.593	0.619	0.606	0.570	0.608	0.589		0.63	0.605	0.537	0.563
ME-10-8	0.568	0.650	0.570	0.59	0.572	0.603	0.586	0.582	0.644	0.602		0.63	0.593	0.557	0.502
ME-10-9	0.606	0.641	0.561	0.63	0.562	0.589	0.613	0.589	0.619	0.591		0.64	0.610	0.548	0.585
ME-10-10	0.585	0.620	0.592	0.65	0.625	0.612	0.612	0.592	0.609	0.596		0.64	0.589	0.537	0.583
Mean	0.592	0.638	0.585	0.626	0.595	0.614	0.591	0.582	0.623	0.591		0.626	0.597	0.553	0.574
Std. Devn.	0.0150	0.0108	0.0204	0.0237	0.0207	0.0134	0.0155	0.0066	0.0133	0.0085		0.0117	0.0150	0.0118	0.0281
% RSD	2.53	1.70	3.50	3.78	3.48	2.19	2.62	1.13	2.13	1.44		1.88	2.52	2.14	4.90

**NOTE:** Pt data from Lab. 14 was excluded for failing the “t” test.  
Pd data from Lab. 14 was excluded for failing the “t” test.  
Lab. 11 was unable to supply Pt, Pd data.

## REFERENCE MATERIAL CDN-ME-10

### 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-10-1	0.449	0.455	0.445	0.647	0.413	0.436	0.462	0.45	0.450	0.440	0.440	0.419	0.446	0.451	0.505
ME-10-2	0.446	0.450	0.450	0.452	0.429	0.431	0.453	0.45	0.431	0.435	0.440	0.420	0.449	0.457	0.459
ME-10-3	0.449	0.445	0.445	0.439	0.430	0.435	0.456	0.46	0.454	0.436	0.441	0.431	0.449	0.455	0.521
ME-10-4	0.448	0.450	0.445	0.442	0.427	0.435	0.463	0.45	0.437	0.432	0.441	0.440	0.450	0.453	0.508
ME-10-5	0.448	0.450	0.441	0.452	0.434	0.419	0.468	0.48	0.441	0.429	0.438	0.427	0.447	0.457	0.535
ME-10-6	0.439	0.448	0.446	0.443	0.439	0.415	0.463	0.44	0.440	0.434	0.445	0.423	0.447	0.459	0.466
ME-10-7	0.439	0.450	0.439	0.441	0.423	0.430	0.457	0.44	0.444	0.429	0.446	0.433	0.448	0.452	0.533
ME-10-8	0.444	0.436	0.446	0.442	0.426	0.431	0.463	0.45	0.438	0.434	0.449	0.416	0.449	0.454	0.500
ME-10-9	0.433	0.440	0.448	0.448	0.434	0.443	0.457	0.49	0.439	0.430	0.448	0.417	0.450	0.455	0.477
ME-10-10	0.439	0.443	0.447	0.452	0.438	0.419	0.461	0.47	0.432	0.435	0.452	0.428	0.444	0.458	0.499
Mean	0.443	0.447	0.445	0.466	0.429	0.429	0.460	0.458	0.440	0.433	0.444	0.425	0.448	0.455	0.500
Std. Devn.	0.0056	0.0057	0.0032	0.0639	0.0077	0.0089	0.0044	0.0169	0.0072	0.0035	0.0047	0.0078	0.0020	0.0026	0.0263
% RSD	1.25	1.27	0.72	13.71	1.80	2.08	0.97	3.68	1.62	0.80	1.05	1.83	0.45	0.58	5.25
	% Co	% Co	% Co	% Co	% Co	% Co	% Co	% Co	% Co	% Co	% Co	% Co	% Co	% Co	% Co
ME-10-1	0.012	0.010	0.014	0.011	0.010	0.010	0.012	0.011	0.011	0.011	0.011	0.010	0.011	0.014	0.014
ME-10-2	0.012	0.010	0.014	0.011	0.010	0.011	0.013	0.011	0.012	0.011	0.010	0.010	0.011	0.014	0.013
ME-10-3	0.012	0.010	0.015	0.011	0.010	0.011	0.012	0.011	0.011	0.011	0.011	0.011	0.011	0.014	0.014
ME-10-4	0.012	0.010	0.014	0.011	0.010	0.009	0.012	0.011	0.011	0.011	0.011	0.010	0.011	0.014	0.014
ME-10-5	0.012	0.010	0.014	0.011	0.010	0.011	0.011	0.011	0.011	0.010	0.010	0.010	0.011	0.014	0.014
ME-10-6	0.012	0.010	0.014	0.011	0.010	0.011	0.011	0.011	0.011	0.011	0.011	0.010	0.011	0.013	0.014
ME-10-7	0.012	0.010	0.014	0.011	0.010	0.011	0.011	0.011	0.011	0.010	0.010	0.010	0.011	0.014	0.014
ME-10-8	0.012	0.010	0.014	0.011	0.010	0.010	0.010	0.011	0.011	0.011	0.010	0.010	0.011	0.014	0.014
ME-10-9	0.012	0.010	0.015	0.011	0.010	0.010	0.012	0.011	0.011	0.011	0.011	0.011	0.011	0.014	0.014
ME-10-10	0.012	0.010	0.014	0.011	0.010	0.011	0.011	0.011	0.011	0.011	0.010	0.011	0.011	0.013	0.014
Mean	0.012	0.010	0.014	0.011	0.010	0.010	0.012	0.011	0.011	0.011	0.011	0.010	0.011	0.014	0.014
Std. Devn.	0.0002	0.0002	0.0004	0.0001	0.0002	0.0004	0.0008	0.0001	0.0003	0.0001	0.0005	0.0004	0.0001	0.0001	0.0003
% RSD	1.59	1.76	2.97	1.19	1.90	4.19	7.39	1.13	2.86	0.87	5.02	4.40	0.83	0.84	1.91
	% Ni	% Ni	% Ni	% Ni	% Ni	% Ni	% Ni	% Ni	% Ni	% Ni	% Ni	% Ni	% Ni	% Ni	% Ni
ME-10-1	0.417	0.429	0.451	0.417	0.448	0.442	0.423	0.44	0.442	0.432	0.448	0.42	0.407	0.399	0.510
ME-10-2	0.425	0.429	0.430	0.419	0.456	0.441	0.421	0.43	0.439	0.426	0.446	0.44	0.413	0.400	0.490
ME-10-3	0.429	0.414	0.429	0.427	0.447	0.438	0.428	0.44	0.443	0.425	0.448	0.43	0.408	0.408	0.539
ME-10-4	0.437	0.421	0.425	0.415	0.436	0.441	0.430	0.44	0.438	0.425	0.447	0.43	0.413	0.401	0.499
ME-10-5	0.423	0.421	0.429	0.420	0.448	0.433	0.427	0.45	0.440	0.421	0.445	0.42	0.411	0.415	0.461
ME-10-6	0.427	0.424	0.417	0.418	0.451	0.428	0.425	0.42	0.444	0.424	0.439	0.43	0.416	0.397	0.530
ME-10-7	0.421	0.432	0.427	0.411	0.438	0.436	0.428	0.43	0.447	0.423	0.444	0.43	0.411	0.400	0.499
ME-10-8	0.438	0.418	0.424	0.420	0.445	0.439	0.422	0.43	0.451	0.426	0.437	0.42	0.414	0.398	0.469
ME-10-9	0.425	0.417	0.431	0.413	0.451	0.442	0.423	0.46	0.426	0.424	0.438	0.43	0.410	0.395	0.464
ME-10-10	0.416	0.417	0.423	0.422	0.447	0.431	0.422	0.45	0.414	0.428	0.440	0.43	0.415	0.398	0.499
Mean	0.426	0.422	0.429	0.418	0.447	0.437	0.425	0.439	0.438	0.425	0.443	0.429	0.412	0.401	0.496
Std. Devn.	0.0074	0.0061	0.0089	0.0046	0.0060	0.0050	0.0031	0.0120	0.0108	0.0030	0.0043	0.0059	0.0029	0.0060	0.0263
% RSD	1.74	1.44	2.08	1.10	1.34	1.13	0.74	2.73	2.46	0.70	0.97	1.38	0.70	1.49	5.31

**NOTE:** Cu data from Lab. 15 was excluded for failing the “t” test.  
Co data from Labs 3 and 15 was excluded for failing the “t” test.  
Ni data from Lab. 15 was excluded for failing the “t” test.

**REFERENCE MATERIAL CDN-ME-10**

**Participating Laboratories:**

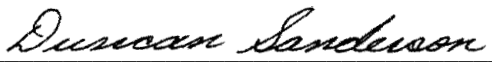
(not in same order as listed in table of results)

Acme Analytical Laboratories Ltd., Vancouver  
Accurassay, Ontario, Canada  
Actlabs-Ancaster, Ontario, Canada  
Actlabs-Thunder Bay, Ontario, Canada  
ALS Chemex Laboratories, North Vancouver  
Assayers Canada Ltd., Vancouver  
CIMM, Lima, Peru  
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Certified by

  
\_\_\_\_\_  
Duncan Sanderson, Certified Assayer of B.C.

Geochemist

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