

# CDN Resource Laboratories Ltd.

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## STANDARD REFERENCE MATERIAL: CDN-GS-5P

Recommended values and the “Between Lab” Two Standard Deviations

<i>Gold</i>	<i>4.78 g/t ± 0.31 g/t</i>	<i>30g FA, instrumental</i>	<i>Certified value</i>
<i>Gold</i>	<i>4.80 g/t ± 0.30 g/t</i>	<i>30g FA, gravimetric</i>	<i>Certified value</i>
<i>Silver</i>	<i>119 g/t ± 4 g/t</i>	<i>4-acid, instrumental</i>	<i>Certified value</i>

**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:** November 7, 2013

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

Standard CDN-GS-5P was prepared using 750 kg of granitic rock blended with 50 kg of a high grade Au-Ag ore.

### **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 blender. Splits were taken and sent to 15 commercial laboratories for round robin assaying.

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

	Percent		Percent
SiO <sub>2</sub>	63.9	MgO	2.2
Al <sub>2</sub> O <sub>3</sub>	13.2	K <sub>2</sub> O	1.0
Fe <sub>2</sub> O <sub>3</sub>	7.9	TiO <sub>2</sub>	0.5
CaO	4.7	LOI	1.3
Na <sub>2</sub> O	2.9	S	0.4

### **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.

**Results from round-robin assaying are displayed on the following page.**

**STANDARD REFERENCE MATERIAL CDN-GS-5P**

	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
Instrumental	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
GS-5P-1	5.14	4.70	4.50	4.75	5.03	4.81	4.58	5.12	4.73	5.08	4.56	4.58	4.55	4.88	4.83
GS-5P-2	4.84	4.76	4.76	4.87	5.04	4.82	4.89	4.85	4.90	5.18	4.38	4.89	4.83	4.84	4.76
GS-5P-3	4.88	4.63	4.77	4.48	4.75	5.31	4.87	5.00	4.87	5.28	4.73	4.87	4.16	4.77	4.79
GS-5P-4	4.83	4.71	4.56	4.50	4.86	4.76	4.73	5.07	4.59	5.17	4.40	4.73	4.63	4.83	4.80
GS-5P-5	4.85	4.74	4.79	4.67	4.98	5.02	4.93	5.03	4.53	5.10	4.76	4.93	4.84	4.83	4.76
GS-5P-6	4.87	4.79	4.65	4.75	4.96	4.51	4.72	4.91	4.63	5.20	4.58	4.72	4.95	4.90	4.80
GS-5P-7	4.74	4.58	4.46	4.50	4.76	5.26	4.93	5.02	4.87	5.20	4.43	4.93	4.72	4.78	4.79
GS-5P-8	4.84	4.68	4.59	4.71	4.87	4.96	4.81	4.94	4.56	5.23	4.52	4.81	4.58	4.83	4.87
GS-5P-9	4.79	4.48	4.69	4.65	4.94	5.15	4.62	5.10	4.94	5.25	4.60	4.62	4.71	4.84	4.83
GS-5P-10	4.76	4.99	4.71	4.55	4.97	5.02	4.97	4.98	4.80	5.03	4.29	4.97	4.68	4.88	4.77
Mean	4.85	4.71	4.65	4.64	4.91	4.96	4.81	5.00	4.74	5.17	4.53	4.81	4.67	4.84	4.80
Std. Dev'n	0.1104	0.1352	0.1162	0.1334	0.1021	0.2450	0.1365	0.0851	0.1543	0.0795	0.1520	0.1365	0.2163	0.0424	0.0346
%RSD	2.27	2.87	2.50	2.87	2.08	4.94	2.84	1.70	3.25	1.54	3.36	2.84	4.64	0.88	0.72
Gravimetric	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
GS-5P-1	4.80	4.57	5.03	4.67	4.47	4.97	4.73	4.94		4.98	4.77	4.98	4.60	4.82	4.84
GS-5P-2	4.90	4.87	4.98	4.51	4.83	5.10	4.71	5.07		5.05	4.37	4.61	4.69	4.85	4.80
GS-5P-3	4.69	4.57	4.90	4.71	4.88	4.63	4.62	4.93		5.06	4.82	4.68	4.27	4.94	4.79
GS-5P-4	4.86	4.63	5.01	4.69	4.94	5.00	4.94	4.96		5.14	4.75	4.75	4.55	4.84	4.79
GS-5P-5	4.64	4.68	4.51	4.68	4.69	5.00	4.52	4.84		4.87	4.74	4.71	4.60	4.88	4.83
GS-5P-6	4.69	4.85	4.92	4.78	4.76	4.93	4.85	5.04		5.11	4.84	4.66	4.49	4.97	4.87
GS-5P-7	4.90	4.81	4.81	4.55	4.72	4.67	4.86	4.97		4.88	4.86	4.55	4.67	4.82	4.89
GS-5P-8	4.76	4.76	4.74	4.62	4.75	4.80	4.69	4.97		5.01	4.55	4.47	4.22	4.90	4.80
GS-5P-9	4.66	4.47	4.83	4.79	4.75	4.77	4.80	4.92		4.93	4.44	4.57	4.64	4.87	4.86
GS-5P-10	4.71	4.80	4.99	4.64	4.85	5.00	4.74	5.06		4.80	4.93	4.69	4.45	4.84	4.83
Mean	4.76	4.70	4.87	4.66	4.76	4.89	4.75	4.97		4.98	4.71	4.67	4.52	4.87	4.83
Std. Dev'n	0.099	0.135	0.159	0.090	0.129	0.159	0.123	0.071		0.111	0.189	0.138	0.163	0.051	0.035
%RSD	2.07	2.87	3.26	1.92	2.71	3.25	2.59	1.42		2.23	4.01	2.97	3.60	1.04	0.73
	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
GS-5P-1	118	112	122	116	119	114	116	117	110	117	119	120	122	117	117
GS-5P-2	119	112	125	116	119	118	119	119	111	117	121	121	120	118	117
GS-5P-3	121	114	122	116	118	118	119	117	111	119	118	122	119	117	118
GS-5P-4	119	113	122	116	118	117	118	118	109	118	118	122	120	119	116
GS-5P-5	119	113	123	115	121	119	120	116	110	120	121	120	121	118	112
GS-5P-6	120	111	125	116	119	123	118	117	110	119	118	121	122	117	115
GS-5P-7	118	115	123	118	120	117	117	115	111	118	119	120	122	117	115
GS-5P-8	121	111	123	117	120	119	119	118	111	118	120	121	121	117	116
GS-5P-9	122	111	124	118	121	119	118	118	111	113	120	120	119	117	115
GS-5P-10	119	112	122	117	121	115	120	118	109	114	118	121	121	118	118
Mean	120	113	123	116	120	118	118	117	110	117	119	121	121	118	116
Std. Dev'n	1.350	1.243	1.197	0.874	1.174	2.470	1.265	1.160	0.799	2.214	1.229	0.789	1.160	0.602	1.792

**Note:** Instrumental Au data from Lab 10 was excluded from the calculations for failing the t test.  
 Ag data from Labs 2 and 9 was excluded from the calculations for failing the t test.

**Note:** Lab 9 did not supply Au data with a gravimetric finish.

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### Participating Laboratories:

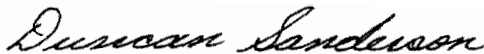
(not in same order as listed in table of results)

Acme Analytical Laboratories Ltd., Vancouver, B.C., Canada  
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Certified by



Duncan Sanderson, Certified Assayer of B.C.

Geochemist



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