

# CDN Resource Laboratories Ltd.

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## REFERENCE MATERIAL: CDN-GS-1P5E

Recommended value and the "Between Laboratory" two standard deviations

**Gold concentration:  $1.52 \pm 0.11$  g/t (30g Fire Assay / Instrumental finish)**

**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 28, 2012

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

Standard CDN-GS-1P5E was prepared using 790 kg of a mixture of gold bearing ores and 10 kg of a high grade gold 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. Round robin results are displayed below:

	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
Sample	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-1P5E-1	1.49	1.42	1.48	1.25	1.50	1.54	1.41	1.51	1.57	1.69	1.53	1.59	1.46	1.54	1.52
GS-1P5E-2	1.50	1.51	1.50	1.32	1.51	1.43	1.47	1.48	1.38	1.57	1.46	1.52	1.37	1.57	1.47
GS-1P5E-3	1.49	1.42	1.54	1.27	1.54	1.44	1.48	1.54	1.61	1.57	1.54	1.58	1.64	1.54	1.50
GS-1P5E-4	1.45	1.56	1.47	1.25	1.57	1.45	1.41	1.50	1.57	1.52	1.46	1.51	1.58	1.60	1.52
GS-1P5E-5	1.50	1.49	1.58	1.30	1.57	1.43	1.48	1.65	1.29	1.67	1.50	1.55	1.69	1.53	1.52
GS-1P5E-6	1.52	1.47	1.52	1.34	1.49	1.50	1.71	1.51	1.51	1.61	1.53	1.53	1.54	1.53	1.55
GS-1P5E-7	1.54	1.58	1.45	1.31	1.57	1.47	1.58	1.52	1.56	1.61	1.46	1.43	1.59	1.55	1.52
GS-1P5E-8	1.54	1.55	1.58	1.31	1.51	1.63	1.45	1.43	1.45	1.63	1.51	1.46	1.48	1.53	1.52
GS-1P5E-9	1.54	1.55	1.50	1.31	1.55	1.50	1.49	1.53	1.44	1.67	1.50	1.47	1.64	1.52	1.49
GS-1P5E-10	1.50	1.46	1.48	1.32	1.50	1.55	1.41	1.45	1.46	1.60	1.47	1.54	1.54	1.55	1.53
Mean	1.51	1.50	1.51	1.30	1.53	1.49	1.49	1.51	1.48	1.61	1.49	1.52	1.55	1.54	1.51
Std. Dev'n	0.0292	0.0582	0.0454	0.0308	0.0325	0.0645	0.0930	0.0584	0.0996	0.0531	0.0321	0.0518	0.0965	0.0232	0.0222
%RSD	1.94	3.88	3.01	2.38	2.12	4.32	6.25	3.86	6.71	3.29	2.15	3.41	6.21	1.50	1.47

*Note: data from laboratory 4 was excluded for failing the t test.*

### APPROXIMATE CHEMICAL COMPOSITION (by whole rock analysis):

	Percent		Percent
SiO <sub>2</sub>	52.2	Na <sub>2</sub> O	1.1
Al <sub>2</sub> O <sub>3</sub>	9.2	MgO	2.9
Fe <sub>2</sub> O <sub>3</sub>	15.9	K <sub>2</sub> O	1.7
CaO	2.2	TiO <sub>2</sub>	0.4
MnO	0.1	LOI	5.7
Total S	9.8		

**REFERENCE MATERIAL: CDN-GS-1P5E**

**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 mean and standard deviation 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.

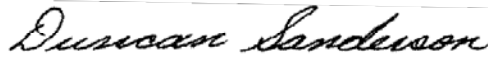
**Participating Laboratories:** (not in same order as table of assays)

Acme Analytical Laboratories Ltd., Vancouver, B.C., Canada  
Activation Laboratories, Ancaster, Ontario, Canada  
Activation Laboratories, Thunder Bay, Ontario, Canada  
Alex Stewart, Mendoza, Argentina  
ALS Brisbane, Australia  
ALS Chemex, North Vancouver, B.C., Canada  
AGAT, Mississauga, Ontario, Canada  
American Assay Laboratories, Nevada, USA  
CIMM, Lima, Peru  
Genalysis Lab Services, Australia  
Labtium Inc., Finland  
SGS, Lima, Peru  
SGS, Vancouver, B.C., Canada  
TSL Laboratories Ltd., Saskatoon, SK, Canada  
Ultra Trace Laboratories Ltd., Australia

**Legal Notice:**

This certificate and the reference material described in it have been prepared with due care and attention. However CDN Resource Laboratories Ltd. nor Barry Smee accept any liability for any decisions or actions taken following the use of the reference material. Our liability is limited solely to the cost of the reference material.

Certified by



Duncan Sanderson, Certified Assayer of B.C.

Geochemist



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