

CDN Resource Laboratories Ltd.

Certificate of Analysis

REFERENCE MATERIAL: CDN-GS-7P

Recommended values and the "Between Lab" Two Standard Deviations

Precious Metals and Targeted Base Metals					
Gold	7.45 ppm	±	0.38 ppm	Fire Assay, ICP or AA finish	Certified value
Gold	7.57 ppm	±	0.56 ppm	Fire Assay, Gravimetric finish	
Silver	29.3 ppm	±	2.2 ppm	4 Acid digestion / Instrumental finish	
Silver	29.8 ppm	±	2.9 ppm	Aqua Regia digestion / Instrumental finish	
Copper	79.2 ppm	±	6.2 ppm	4 Acid digestion / Instrumental finish	
Copper	77.1 ppm	±	3.2 ppm	Aqua Regia digestion / Instrumental finish	
Molybdenum	8.5 ppm	±	0.6 ppm	4 Acid digestion / Instrumental finish	
Molybdenum	8.5 ppm	±	0.5 ppm	Aqua Regia digestion / Instrumental finish	
Lead	111 ppm	±	6 ppm	4 Acid digestion / Instrumental finish	
Zinc	298 ppm	±	18 ppm	4 Acid digestion / Instrumental finish	
Iron	3.79 %	±	0.14 %	4 Acid digestion / Instrumental finish	
Total S	3.22 %	±	0.33 %	Leco	
Total C	1.19 %	±	0.11 %	Leco	

Major Oxides			
Al ₂ O ₃	13.32 %	± 0.35 %	Certified value
Fe ₂ O ₃	5.44 %	± 0.12 %	
CaO	5.5 %	± 0.3 %	
MgO	1.28 %	± 0.09 %	
K ₂ O	4.71 %	± 0.21 %	
TiO ₂	0.46 %	± 0.01 %	
P ₂ O ₅	0.19 %	± 0.02 %	

Note 1: 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:

Ali Alizadeh, MSc, MBA, P Geo, FGC

INDEPENDENT GEOCHEMIST:

Dr. Barry Smee., Ph.D., FGC

DATE OF CERTIFICATION:

May 12th, 2025

ORIGIN OF REFERENCE MATERIAL:

Standard CDN-GS-7P was produced from Newmont's Brucejack gold mine in northern British Columbia, Canada. The Brucejack mine deposit is an electrum intermediate-sulphidation epithermal deposit.

Gold occurs mostly as electrum with pyrite, pyrrargyrite, tetrahedrite, argentite, galena and sphalerite occurring as the main metallic minerals. Also reported are chalcopyrite, pyrargyrite, polybasite, native gold, native silver, cerargyrite, freibergite, stephanite and acanthite. Gangue mineralogy of the veins is dominated by quartz, with accessory adularia, albite, sericite, and minor carbonate and barite.

Specific Gravity was measured using a pycnometer, with an average value of **2.8**.

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 17 commercial and mine laboratories for round robin assaying.

Assay Procedures:

Au:	Fire Assay with AA, ICP, or gravimetric finish
Ag, Cu, Pb, Zn, Ni:	4-acid and Aqua regia digestion Instrumental finish.
Total sulfur and Carbon:	Leco
Major Oxides	Fusion, XRF finish

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 means 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 database. 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.

Quality Assurance and Quality Control Procedures:

Screening Test: After completion of homogenization, three samples, 300g each of homogenized material were randomly collected and were re-screened by a testing sieve. The oversize material of this standard and based on CDN's screening test was ~%1.5.

Homogeneity Test:

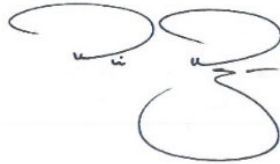
15 samples were selected selectively throughout the batch and were sent to an independent assay Laboratories for Homogeneity testing following directions of Annex B, Homogeneity and Stability of proficiency test items, ISO 13528:2015 Guidelines. Assay results went through a statistical work-up by checking the mean, standard deviation, and %RSD.

Based on performed statistical works outlined by ISO 13528; CDN-GS-7P is statistically homogenized (Appendix III).

LEGAL NOTICE:

This certificate and the reference material described in it have been prepared with due care and attention. However, neither 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 paid for the reference material.

Certified by



Ali Alizadeh, MSc, MBA, P.Geo., FGC

Geochemist



Dr. Barry Smee, PhD, FGC

APPENDIX I: Results from round-robin assaying:

Standard	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 10	Lab 11	Lab 12	Lab 13	Lab 14	Lab 15	Lab 16	Lab17
Au by Fire Assay, 30g sample size and ICP or AA finish																
GS-7P	7.69	7.35	7.27	7.25	7.42	7.69	7.69	-	7.78	7.53	7.53	7.55	7.48	7.47	6.86	-
	7.75	7.08	7.43	7.73	7.04	7.56	7.56	-	7.78	7.48	7.22	7.40	7.49	7.44	7.43	-
	7.69	7.25	7.13	7.36	7.57	7.31	7.31	-	7.94	7.43	7.29	7.58	7.47	7.55	7.58	-
	7.68	7.22	7.57	7.07	7.65	7.50	7.50	-	7.65	7.34	7.54	7.40	7.47	7.39	7.58	-
	7.78	7.29	7.37	8.19	7.16	7.72	7.72	-	7.58	7.35	7.48	7.28	7.46	7.55	7.99	-
	7.75	7.33	7.63	7.87	7.41	7.52	7.52	-	8.01	7.27	7.40	7.31	7.43	7.38	7.33	-
	7.76	7.27	7.50	7.23	6.82	7.40	7.40	-	7.07	7.37	7.55	7.98	7.48	7.49	7.45	-
	7.72	7.03	7.37	7.07	7.02	7.38	7.38	-	7.18	7.43	7.56	7.36	7.48	7.54	7.60	-
Mean	7.73	7.23	7.41	7.47	7.26	7.51	7.51	-	7.62	7.40	7.45	7.48	7.47	7.48	7.48	-
Std. Devn.	0.04	0.11	0.16	0.41	0.29	0.15	0.15	-	0.34	0.08	0.13	0.23	0.02	0.07	0.32	-
% RSD	0.47	1.59	2.19	5.50	4.05	1.94	1.94	-	4.43	1.13	1.75	3.05	0.27	0.90	4.24	-
Au by Fire Assay, 30g sample size and Gravimetric finish																
GS-7P	-	-	-	7.865	-	-	-	7.871	-	-	7.197	-	-	7.35	7.2	7.13
	-	-	-	7.501	-	-	-	7.856	-	-	7.589	-	-	7.79	6.9	7.51
	-	-	-	7.283	-	-	-	7.779	-	-	7.192	-	-	7.87	7.6	7.99
	-	-	-	7.813	-	-	-	7.767	-	-	7.816	-	-	7.35	7.3	7.27
	-	-	-	8.527	-	-	-	7.793	-	-	7.316	-	-	7.62	7.7	7.27
	-	-	-	7.995	-	-	-	7.265	-	-	7.351	-	-	7.79	7.1	7.68
	-	-	-	7.788	-	-	-	7.815	-	-	7.344	-	-	7.71	6.9	7.44
	-	-	-	7.415	-	-	-	7.735	-	-	7.304	-	-	8.00	5.3	7.65
Mean	-	-	-	7.773	-	-	-	7.735	-	-	7.389	-	-	7.69	7.0	7.49
Std. Devn.	-	-	-	0.39	-	-	-	0.20	-	-	0.21	-	-	0.23	0.75	0.28
% RSD	-	-	-	5.03	-	-	-	2.52	-	-	2.87	-	-	3.05	10.66	3.71

APPENDIX I: Results from round-robin assaying-Continue:

Standard	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 8	Lab 14	Lab 15	Lab 16	Lab17
Ag (ppm) by 4Acid Digestion ICP or ICP/MS finish										
GS-7P	-	-	30	29.42	28.15	30.00	29.91	30.28	-	33.6
	-	-	31	28.10	27.75	28.38	30.06	29.65	-	31.8
	-	-	31	28.88	28.98	29.53	29.87	32.09	-	32.7
	-	-	32	28.36	28.53	27.83	29.68	29.97	-	34.4
	-	-	31	28.62	27.93	28.59	30.60	30.11	-	31.6
	-	-	32	28.63	27.14	28.56	30.23	30.59	-	32.3
	-	-	30	29.76	26.56	27.46	30.33	29.49	-	34.6
Mean	-	-	31	28.84	28.01	29.01	30.16	30.18	-	32.9
Std. Devn.	-	-	0.76	0.54	0.87	1.37	0.34	0.88	-	1.14
% RSD	-	-	2.44	1.89	3.10	4.71	1.14	2.93	-	3.46
Ag (ppm) by Aqua Regia Digestion ICP or ICP/MS finish										
GS-7P	-	30.58	-	28.18	-	>10	26.88	30.19	-	-
	-	30.97	-	28.66	-	>10	26.56	30.79	-	-
	-	30.73	-	28.08	-	>10	26.27	30.68	-	-
	-	30.25	-	28.31	-	>10	26.97	32.37	-	-
	-	30.84	-	28.50	-	>10	26.62	31.81	-	-
	-	31.62	-	28.42	-	>10	26.15	30.10	-	-
	-	30.19	-	28.01	-	>10	26.56	30.48	-	-
Mean	-	30.69	-	28.27	-	-	26.55	30.91	-	-
Std. Devn.	-	0.47	-	0.24	-	-	0.28	0.79	-	-
% RSD	-	1.53	-	0.84	-	-	1.07	2.56	-	-
Cu (ppm) by 4 Acid digestion ICP finish										
GS-7P	78.1	-	-	80.9	-	79.06	75.45	78.1	-	74.6
	79.9	-	-	83.5	-	83.68	77.71	79.9	-	74.5
	80.4	-	-	77.8	-	81.01	78.61	80.4	-	73.8
	83.5	-	-	76.8	-	85.70	78.73	83.5	-	73.8
	82.2	-	-	82.3	-	91.97	77.56	82.2	-	79.2
	81.6	-	-	80.9	-	79.93	77.15	81.6	-	74.9
	79.8	-	-	78.5	-	82.47	75.51	79.8	-	73.8
Mean	80.7	-	-	80.0	-	83.32	77.11	80.7	-	74.7
Std. Devn.	1.70	-	-	2.29	-	4.08	1.29	1.70	-	1.90
% RSD	2.11	-	-	2.86	-	4.90	1.67	2.11	-	2.55
Cu (ppm) by Aqua Regia ICP finish										
GS-7P	76.7	-	-	78.8	-	83.3	74.6	76.7	-	-
	78.7	-	-	79.4	-	85.0	75.4	78.7	-	-
	76.9	-	-	78.5	-	85.2	75.8	76.9	-	-
	77.5	-	-	80.7	-	82.6	77.9	77.5	-	-
	75.5	-	-	80.9	-	84.7	75.5	75.5	-	-
	76.6	-	-	79.1	-	86.7	74.8	76.6	-	-
	75.8	-	-	78.5	-	88.0	72.8	75.8	-	-
Mean	76.7	-	-	79.3	-	85.5	74.9	76.7	-	-
Std. Devn.	1.08	-	-	0.95	-	2.14	1.72	1.08	-	-
% RSD	1.41	-	-	1.20	-	2.50	2.30	1.41	-	-

APPENDIX I: Results from round-robin assaying-Continue:

Standard	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 8	Lab 14	Lab 15	Lab 16	Lab17
Mo (ppm) by 4 Acid digestion Instrumental finish										
GS-7P	-	-	-	8.5	-	8.65	8.35	8.41	-	8.9
	-	-	-	8.4	-	8.54	8.27	8.81	-	8.2
	-	-	-	8.6	-	8.27	8.19	8.89	-	8.5
	-	-	-	9.2	-	8.87	8.41	8.58	-	8.9
	-	-	-	8.6	-	8.83	8.50	9.02	-	8.3
	-	-	-	11.8	-	8.81	8.49	8.42	-	8.2
	-	-	-	8.2	-	8.71	8.25	8.70	-	8.1
Mean	-	-	-	9.0	-	8.72	8.36	8.73	-	8.4
Std. Devn.	-	-	-	1.16	-	0.24	0.11	0.25	-	0.33
% RSD	-	-	-	12.92	-	2.71	1.35	2.85	-	3.97
Mo (ppm) by Aqua Regia Instrumental finish										
GS-7P	-	-	-	8.5	-	8.34	8.88	8.04	-	-
	-	-	-	8.7	-	8.74	8.62	8.46	-	-
	-	-	-	8.5	-	8.45	8.40	8.06	-	-
	-	-	-	8.6	-	8.24	8.98	8.17	-	-
	-	-	-	8.8	-	8.71	8.94	8.18	-	-
	-	-	-	8.6	-	8.46	8.75	8.02	-	-
	-	-	-	8.5	-	8.51	8.85	7.92	-	-
Mean	-	-	-	8.6	-	8.55	8.74	8.14	-	-
Std. Devn.	-	-	-	0.11	-	0.24	0.21	0.17	-	-
% RSD	-	-	-	1.31	-	2.79	2.40	2.12	-	-
Pb (ppm) by 4 Acid digestion Instrumental finish										
GS-7P	-	-	-	109.2	-	101.9	109.37	112.1	113	112
	-	-	-	111.3	-	107.1	106.32	112.1	108	116
	-	-	-	109.9	-	104.7	110.86	113.5	109	109
	-	-	-	109.1	-	108.4	108.79	115.8	126	114
	-	-	-	110.3	-	106.6	111.68	112.5	126	113
	-	-	-	112.2	-	103.5	111.85	113.8	129	113
	-	-	-	113.8	-	103.5	109.85	112.9	110	113
Mean	-	-	-	110.8	-	106.1	112.32	114.5	110	112
Std. Devn.	-	-	-	1.59	-	2.19	1.99	1.29	8.96	1.98
% RSD	-	-	-	1.44	-	2.08	1.80	1.13	7.70	1.76
Zn (ppm) by 4 Acid digestion Instrumental finish										
GS-7P	-	-	-	304	-	283.76	306.56	299	346	306
	-	-	-	300	-	290.60	308.03	286	299	306
	-	-	-	291	-	280.08	309.08	297	306	305
	-	-	-	289	-	281.04	307.36	295	306	306
	-	-	-	306	-	280.92	306.43	296	301	302
	-	-	-	291	-	279.40	308.00	293	301	303
	-	-	-	295	-	282.63	303.34	292	335	299
Mean	-	-	-	297	-	285.00	307.92	303	298	298
Std. Devn.	-	-	-	6.36	-	3.63	1.74	5.06	18.37	3.23
% RSD	-	-	-	2.14	-	1.28	0.57	1.71	5.90	1.06

APPENDIX I: Results from round-robin assaying-Continue:

Standard	Lab 3	Lab 4	Lab 5	Lab 8	Lab 9	Lab 14	Lab 15	Lab 16	Lab 17
Total S (%) LECO									
GS-7P	3.50	-	3.17	3.04	3.44	-	3.14	3.04	3.04
	3.49	-	3.15	3.13	3.34	-	3.11	3.06	3.06
	3.49	-	3.12	3.11	3.41	-	3.15	3.07	3.07
	3.50	-	3.17	3.12	3.24	-	3.13	3.07	3.07
	3.43	-	3.14	3.13	3.43	-	3.11	3.07	3.07
	3.43	-	3.13	3.10	3.51	-	3.14	3.03	3.03
	3.45	-	3.14	3.08	3.48	-	3.12	3.07	3.07
	3.51	-	3.13	3.12	3.45	-	3.13	3.05	3.05
Mean	3.48	-	3.14	3.10	3.41	-	3.13	3.06	3.06
Std. Devn.	0.03	-	0.02	0.03	0.09	-	0.01	0.02	0.02
% RSD	0.95	-	0.59	0.99	2.51	-	0.47	0.54	0.54
Total C (%) LECO									
GS-7P	-	-	1.14	1.23	1.18	-	1.21	1.27	1.27
	-	-	1.14	1.22	1.15	-	1.21	1.28	1.28
	-	-	1.13	1.21	1.09	-	1.21	1.25	1.25
	-	-	1.16	1.22	1.15	-	1.21	1.25	1.25
	-	-	1.15	1.20	1.11	-	1.20	1.28	1.28
	-	-	1.14	1.20	1.09	-	1.21	1.26	1.26
	-	-	1.14	1.22	1.10	-	1.21	1.26	1.26
	-	-	1.15	1.22	1.10	-	1.21	1.27	1.27
Mean	-	-	1.14	1.22	1.12	-	1.21	1.26	1.26
Std. Devn.	-	-	0.01	0.01	0.03	-	0.00	0.01	0.01
% RSD	-	-	0.80	0.88	3.03	-	0.29	0.89	0.89
Fe (%) by 4 Acid digestion Instrumental finish									
GS-7P	3.70	3.86	-	3.54	-	3.76	3.93	3.80	3.80
	3.78	3.77	-	3.74	-	3.79	3.86	3.82	3.82
	3.75	3.76	-	3.61	-	3.73	3.95	3.82	3.82
	3.69	3.70	-	3.64	-	3.77	3.86	3.84	3.84
	3.71	3.79	-	3.61	-	3.76	3.92	3.82	3.82
	3.66	3.74	-	3.52	-	3.76	3.94	3.80	3.80
	3.68	3.77	-	3.45	-	3.74	3.82	3.77	3.77
	3.71	3.82	-	3.65	-	3.79	4.01	3.78	3.78
Mean	3.71	3.78	-	3.60	-	3.76	3.91	3.81	3.81
Std. Devn.	0.04	0.05	-	0.09	-	0.02	0.06	0.02	0.02
% RSD	1.07	1.29	-	2.49	-	0.56	1.56	0.61	0.61

APPENDIX I: Results from round-robin assaying-Continue:

SiO ₂ (%) XRF								
GS-7P	-	59.86	-	60.5	-	56.00	59.66	59.97
	-	59.89	-	61.6	-	55.87	59.71	59.99
	-	59.74	-	61.9	-	56.01	59.78	59.76
	-	59.96	-	61.9	-	56.17	59.63	59.89
	-	59.85	-	61.2	-	56.12	59.52	59.80
	-	59.82	-	60.0	-	56.38	59.73	59.97
	-	59.95	-	60.4	-	56.32	59.51	59.99
	-	59.80	-	59.9	-	55.89	59.64	59.84
Mean	-	59.86	-	60.9	-	56.09	59.65	59.90
Std. Devn.	-	0.07	-	0.83	-	0.19	0.10	0.09
% RSD	-	0.12	-	1.36	-	0.33	0.16	0.15
Al ₂ O ₃ (%) XRF								
GS-7P	-	13.31	-	13.4	-	12.98	13.56	13.27
	-	13.37	-	13.5	-	13.00	13.50	13.33
	-	13.31	-	13.2	-	12.94	13.54	13.27
	-	13.39	-	13.5	-	13.09	13.56	13.31
	-	13.36	-	13.4	-	12.83	13.61	13.28
	-	13.33	-	13.3	-	13.04	13.55	13.32
	-	13.38	-	13.2	-	13.00	13.53	13.28
	-	13.21	-	13.3	-	12.88	13.54	13.25
Mean	-	13.33	-	13.4	-	12.97	13.55	13.29
Std. Devn.	-	0.06	-	0.12	-	0.09	0.03	0.03
% RSD	-	0.44	-	0.90	-	0.66	0.23	0.21
CaO (%) XRF								
GS-7P	-	5.52	-	5.64	-	5.21	5.54	5.48
	-	5.54	-	5.67	-	5.20	5.58	5.47
	-	5.55	-	5.81	-	5.24	5.59	5.45
	-	5.56	-	5.52	-	5.28	5.54	5.47
	-	5.58	-	5.72	-	5.33	5.56	5.45
	-	5.55	-	5.61	-	5.25	5.55	5.46
	-	5.54	-	5.64	-	5.31	5.60	5.43
	-	5.52	-	5.69	-	5.21	5.55	5.43
Mean	-	5.55	-	5.66	-	5.25	5.56	5.46
Std. Devn.	-	0.02	-	0.08	-	0.05	0.02	0.02
% RSD	-	0.36	-	1.49	-	0.92	0.42	0.34
Fe ₂ O ₃ (%) XRF								
GS-7P	-	5.45	-	5.50	-	5.30	5.37	5.48
	-	5.46	-	5.57	-	5.31	5.40	5.48
	-	5.46	-	5.62	-	5.35	5.39	5.48
	-	5.47	-	5.68	-	5.39	5.42	5.50
	-	5.47	-	5.56	-	5.39	5.41	5.50
	-	5.39	-	5.41	-	5.34	5.39	5.48
	-	5.45	-	5.44	-	5.42	5.47	5.48
	-	5.42	-	5.46	-	5.33	5.41	5.47
Mean	-	5.45	-	5.53	-	5.36	5.41	5.48
Std. Devn.	-	0.03	-	0.09	-	0.04	0.03	0.01
% RSD	-	0.51	-	1.69	-	0.84	0.55	0.19

APPENDIX I: Results from round-robin assaying-Continue:

K2O (%) XRF								
GS-7P	-	4.67	-	4.81	-	4.49	4.77	4.72
	-	4.69	-	4.77	-	4.47	4.80	4.70
	-	4.69	-	4.83	-	4.51	4.68	4.68
	-	4.71	-	4.84	-	4.54	4.80	4.72
	-	4.72	-	4.83	-	4.59	4.81	4.66
	-	4.71	-	4.68	-	4.53	4.79	4.68
	-	4.69	-	4.91	-	4.55	4.81	4.68
	-	4.68	-	4.86	-	4.48	4.81	4.68
Mean	-	4.70	-	4.82	-	4.52	4.78	4.69
Std. Devn.	-	0.02	-	0.07	-	0.04	0.04	0.02
% RSD	-	0.36	-	1.41	-	0.89	0.92	0.46
MgO (%) XRF								
GS-7P	-	1.30	-	1.45	-	1.18	1.33	1.29
	-	1.31	-	1.35	-	1.20	1.31	1.28
	-	1.31	-	1.30	-	1.20	1.32	1.29
	-	1.31	-	1.43	-	1.21	1.32	1.30
	-	1.30	-	1.39	-	1.19	1.33	1.27
	-	1.30	-	1.40	-	1.22	1.31	1.27
	-	1.31	-	1.45	-	1.23	1.32	1.27
	-	1.30	-	1.49	-	1.21	1.32	1.28
Mean	-	1.31	-	1.41	-	1.20	1.32	1.28
Std. Devn.	-	0.01	-	0.06	-	0.02	0.01	0.01
% RSD	-	0.41	-	4.34	-	1.26	0.57	0.88
P2O5 (%) XRF								
GS-7P	-	0.192	-	0.21	-	0.18	0.18	0.20
	-	0.198	-	0.23	-	0.18	0.19	0.19
	-	0.198	-	0.23	-	0.18	0.18	0.19
	-	0.195	-	0.22	-	0.18	0.18	0.19
	-	0.195	-	0.22	-	0.18	0.17	0.20
	-	0.196	-	0.23	-	0.18	0.18	0.18
	-	0.195	-	0.23	-	0.18	0.19	0.19
	-	0.191	-	0.22	-	0.18	0.18	0.19
Mean	-	0.195	-	0.22	-	0.18	0.18	0.19
Std. Devn.	-	0.00	-	0.01	-	0.00	0.01	0.01
% RSD	-	1.29	-	3.33	-	0.83	3.54	3.35
TiO2 (%) XRF								
GS-7P	-	0.46	-	0.47	-	0.46	0.45	0.45
	-	0.46	-	0.46	-	0.45	0.44	0.45
	-	0.46	-	0.46	-	0.45	0.45	0.46
	-	0.46	-	0.45	-	0.46	0.44	0.45
	-	0.46	-	0.48	-	0.46	0.43	0.45
	-	0.46	-	0.46	-	0.46	0.45	0.45
	-	0.45	-	0.47	-	0.46	0.46	0.45
	-	0.46	-	0.47	-	0.46	0.45	0.46
Mean	-	0.46	-	0.47	-	0.46	0.45	0.45
Std. Devn.	-	0.00	-	0.01	-	0.00	0.01	0.00
% RSD	-	0.77	-	1.99	-	0.82	2.05	1.02

Notes: Highlighted assay results were removed for failing the t-test.

APPENDIX II:

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

Accura Assay	MSA Guyana
Couer Mexicana S.A de C.V Laboratorio Químico, Mexico	MSA Egypt
Impala Terminals Peru	MSA Mauritania
Intertek Perth	SGS Barberton, South Africa
SGS Kershaw Mineral Lab, USA	Shiva Analytical, India
MSA Yamoussoukro	MSA Langley, BC, Canada
Intertek Minerals Ltd Somisa SA Minesite Lab, Burkina Faso	SGS, Burnaby, BC, Canada
SGS Geosol Laboratories Ltd. Brazil	Skyline Assayers and Labs, Az, USA
MSA Tanzania	

APPENDIX III: QAQC

The table below illustrates percentages of over size (+200 mesh) material in CDN-GS-7P

Standard	Study Date	Total weight Screened (g)	Total weight Over size (g)	Percentage
GS-7P	6/5/2024	300	3.5	1.2%
	6/5/2024	300	4	1.3%
	6/5/2024	300	3.5	1.2%

Table below shows homogeneity test results of CDN-GS-7P

GS-7P	Au Original	Au Repeat	Between Sample Variance Wt	Sample Avg. Xt	Stdev of Sample Avg	Within-Sample Std.
	7.483	7.446	0.037	7.465	0.024	0.001
	7.461	7.785	0.324	7.623	0.099	0.105
	7.168	7.054	0.114	7.111	0.039	0.013
	7.138	7.322	0.184	7.230	0.006	0.034
	7.224	7.234	0.010	7.229	0.006	0.000
	7.313	7.430	0.117	7.372	0.004	0.014
	7.234	7.055	0.179	7.145	0.027	0.032
	7.382	7.243	0.139	7.313	0.000	0.019
	7.446	7.142	0.304	7.294	0.000	0.092
	7.472	7.424	0.048	7.448	0.019	0.002
	7.216	7.599	0.383	7.408	0.010	0.147
	7.449	7.247	0.202	7.348	0.002	0.041
	7.240	7.162	0.078	7.201	0.012	0.006
	7.300	7.242	0.058	7.271	0.001	0.003
	7.055	7.295	0.240	7.175	0.018	0.058
Statistics			Gavg	SX	SS	
Mean	7.305	7.312	7.309	0.138	0.098	
SD	0.1372	0.1991	C	C SQRT		
RSD	1.878	2.723	0.0457	0.21		
Based on Statistical procedures outlined in Annex B, ISO 13528:2015 guidelines, if “SS is < square root of C” Standard is considered homogeneous. GS-7P is statistically homogenous						

APPENDIX IV: Statistics for Uncertified Elements

Oxides/ Elements	Generic Method	Number of results	Mean	Standard Deviation	RSD %	Unit
SiO ₂	Fusion	32	59.9	0.33	0.6	%
MnO		32	0.2	0.005	2.5	
Na ₂ O		32	0.35	0.01	3	
LOI		32	6.5	0.1	1.5	
K	4 Acid Digestion-Instrumental Finish	40	3.8	0.2	4.1	ppm
Mg		48	0.8	0.0	4.2	
Na		40	0.3	0.03	10.2	
Al		40	6.9	0.1	1.5	
As		32	506	27.3	5.4	
Be		32	1	0.1	13	
Bi		32	0.3	0.01	3	
Ca		32	3.9	0.04	1	
Cd		40	3.4	0.2	6	
Ce		40	26.9	1	4	
Co		40	13.2	0.8	6	
Cr		32	12.5	0.6	4.5	
Cs		40	7.8	0.4	5.4	
Ga		40	14.7	1.3	8.7	
Hf		32	1.3	0.1	10	
In		32	0.05	0.005	9.5	
La		40	11.71	1.416	12.1	
Li		40	14.4	0.8	5.5	
Mn		40	1346.1	83.7	6.2	
Nb		40	5.6	0.8	14.3	
Ni		40	41.5	1.6	4.0	
P		40	783.6	123.2	15.7	
Rb		40	184.3	44.4	24.1	
S		32	3.1	0.1	3.1	
Sb		40	29.5	3.0	10.1	
Sc		40	11.0	1.0	8.8	
Se		24	4.9	0.5	10.2	
Sn		32	1.5	0.3	20.4	
Sr		40	170.3	7.9	4.7	
Ta		32	0.3	0.0	13.1	
Th		40	3.6	0.4	11.8	
Ti		32	0.3	0.0	2.7	
Tl		40	3.9	0.2	4.6	
U		40	1.9	0.1	6.0	
V		40	108.1	8.3	7.6	
Y		40	10.9	0.5	4.8	
W		40	24.0	2.0	8.4	
Zr		40	35.9	3.6	10.0	
Au	Aqua Regia digestion-Instrumental finish	16	7.3	1	12.4	
Al		24	0.8	0.1	13	
As		32	520	11	2	
Bi		24	0.3	0.02	7	
Ca		32	3.8	11	3	
Cd		32	3.4	0.2	6	
Ce		16	1.5	0.2	2.5	

APPENDIX IV: Statistics for Uncertified Elements-Continue

Oxides/ Elements	Generic Method	Number of results	Mean	Standard Deviation	RSD %	Unit
Fe	Aqua Regia digestion- Instrumental finish	32	59.9	0.33	0.6	%
K		32	0.2	0.005	2.5	
Mg		32	0.35	0.01	3	
Na		32	6.5	0.1	1.5	
Co		32	12.5	0.6	4.5	ppm
Cr		32	69.0	1.8	2.6	
Cs		16	16	16	16	
Ga		16	2.1	0.13	6.1	
Hf		16	0.1	0.004	6.5	
In		24	0.02	0.004	20.7	
La		32	6.6	1.6	24.5	
Li		24	6.8	0.6	8.1	
Mn		32	1326	17	1.3	
Ni		24	41.5	3	7	
P		24	848.3	12	1	
Pb		24	114.5	1	1	
Rb		16	17.0	2	13	
S		32	3.1	0.1	2.5	
Sb		32	22.1	2.7	12.1	
Sc		32	2.4	0.7	29.2	
Se		32	5.5	1.3	24.2	
Sn		24	0.4	0.3	72	
Sr		32	140.2	5.4	3.8	
Ta		32	0.4	0.1	20.6	
V		24	17.1	1.7	10.1	
W		32	18.2	1.2	6.6	
Y		24	6.4	0.6	9.1	
Zn		24	2.0	0.2	7.7	

APPENDIX V: General Notes

Intended Use

This Certified Reference Material, fit for use as a control sample in routine assay laboratory quality control when inserted within runs of test samples and measured in parallel to test samples. This material can also be used for method development, use as independent calibration verification check standard or for validation of accuracy in a method validation exercise.

This CRM can also be used to assess inter-laboratory or instrument bias and establish within-laboratory precision and within-laboratory reproducibility. The certified concentrations and expanded uncertainty for this material are property values based on an inter-laboratory measurement campaign and reflect consensus results from the laboratories that took part in the exercise.

Handling

Do not use this product if the seal is broken or there are any signs of contamination.

The material is packaged in either Tin Tie envelopes, foil envelopes or jars that must be shaken before use.

Storage information

The material should be stored in a dry place, in such a way that it does not compromise the integrity of the CRM. The material should be stored in conditions which will ensure it does not absorb moisture.

The certificate is not valid if re-packaged by a third party.

Metrological Traceability

The values quoted herein are based on the consensus values derived from statistical analysis of the data from an inter-laboratory measurement program. Traceability to SI units is via the standards used by the individual laboratories, all of which are accredited to the ISO17025 general requirements for the competence of testing and calibration laboratories and who have maintained measurement traceability during the analytical process.

Period of Validity

The certified values are valid for this product, while still sealed in its original packaging, until notification to the contrary. The material's stability will undergo regular testing every five years throughout its inventory duration. Should product stability become an issue, all customers will be notified and notification to that effect will be placed on the <http://www.cdnlabs.com/> website.

Minimum Sample Size

Most of the laboratory's reporting used a 0.5g sample size for the ICP and a 30g sample size for the fire assay. Our certified gold values are based on 30 g Fire Assay determinations. For optimal results, we strongly recommend you assay our standards with similar methods using "at least" 30 g of material. Using a smaller sample weight may result in erratic values. These are the recommended minimum sample sizes for the use of this material.