CDN Resource Laboratories Ltd.

Certificate of Analysis

REFERENCE MATERIAL: CDN-GS-7N

Recommended values and the "Between Lab" Two Standard Deviations

Precious Metals and Targeted Base Metals				
Gold	6.59 ppm	± 0.41 ppm	Fire Assay, Instrumental finish	Certified value
Arsenic	710.4 ppm	± 34.2 ppm	4 Acid digestion / Instrumental finish	
Iron	3.15 %	± 0.25 %	4 Acid digestion / Instrumental finish	
Total S	1.85 %	± 0.08 %	induction furnace/IR	

Major Oxides			
SiO_2	84.55 %	± 4.24 %	Certified value
Al_2O_3	1.76 %	± 0.07 %	
Fe_2O3	4.58 %	± 0.27 %	
CaO	1.56 %	± 0.04 %	
MgO	0.60 %	± 0.04 %	
K_2O	0.42 %	± 0.03 %	

Major and Minor Base Metals				
Aluminum	0.93 %	± 0.02 %	4 Acid digestion / ICP finish	Certified value
Barium	100 ppm	± 6 ppm		
Calcium	1.14 %	± 0.12 %		
Cobalt	5.5 ppm	± 0.6 ppm		
Chromium	54 ppm	± 5 ppm		
Copper	92.2 ppm	± 9.9 ppm		
Potassium	0.35 %	± 0.01 %		
Magnesium	0.36 %	± 0.01 %		
Manganese	311 ppm	± 20 ppm		
Lead	121.4 ppm	± 12.9 ppm		
Sulfur	1.84 %	± 0.11 %		
Antimony	328.9 ppm	± 18.9 ppm		
Strontium	40 ppm	± 3 ppm		
Vanadium	32 ppm	± 2 ppm		
Zinc	476 ppm	± 32 ppm		

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: June 25th, 2025

T 604-882-8422 F 604-882-8466 E info@cdnlabs.com TOLL FREE 1-888-882-0242
A No. 2, 20148 - 102 Avenue, Langley, B.C., Canada, V1M 4B4
WWW.cdnlabs.com

ORIGIN OF REFERENCE MATERIAL:

CDN-GS-7N was prepared from material that became available to CDN Resource Laboratories from Barrick's Goldrush deposit, Nevada. Goldrush is a Carlin-type sedimentary rock-hosted disseminated gold deposit located within the Cortez mining district on the Battle Mountain-Eureka trend, Nevada, USA. Gold mineralization occurs within extensive zones of decarbonatization and silicification spatially associated with a stratigraphic horizon containing fossiliferous debris flows in thrust-faulted and folded Devonian carbonate rocks. The system is marked by a large stratiform silicified and sulfidized breccia horizon from 15 to 70 m thick. Gold occurs as submicroscopic inclusions within fine-grained pyrite, similar to other Carlin-type gold deposits in Nevada.

Specific Gravity was measured using a pycnometer, with an average value of **2.7.**

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 Instrumental Finish
As and Fe and Major and Minor Base Metals: 4-acid digestion Instrumental finish.
Total sulfur: Induction furnace/IR
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 less than 2%.

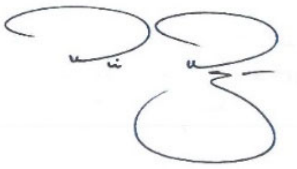
Homogeneity Test:
15 samples were selected selectively throughout the batch and were sent to an independent assay Laboratories for Homogeneity testing following directions of Annex B, Homogeneity and Stability of proficiency

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-7N 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:

	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab10	Lab11	Lab12	Lab13	Lab14	Lab15	Lab16	Lab17	Lab18
	Au by Fire Assay, ICP or AA finish																	
GS-7N	6.833	6.34	6.377	6.885	6.617	6.81	6.69	6.64	6.629	6.574	6.280	6.75	5.83	6.56	6.341	4.85	6.31	6.52
	6.877	6.18	6.527	6.871	6.774	6.85	6.73	6.62	6.577	6.969	6.355	6.63	5.82	6.77	6.336	5.16	6.44	6.79
	6.545	6.27	6.440	6.723	6.701	6.86	6.60	6.60	6.854	6.747	6.204	6.72	5.80	6.61	6.328	4.63	6.44	6.62
	6.789	6.51	6.685	6.319	6.696	6.86	6.68	6.62	6.645	6.785	6.319	6.58	6.39	6.54	6.315	5.35	6.42	6.89
	6.709	5.82	6.740	6.374	6.618	6.89	6.69	6.63	6.564	6.868	6.400	6.76	6.46	6.41	6.375	5.22	6.15	6.79
	6.644	6.46	6.080	6.192	6.673	6.96	6.71	6.61	6.750	6.695	6.308	6.73	6.42	6.63	6.361	4.99	6.23	6.89
	6.736	5.35	6.390	6.222	6.650	6.90	6.72	6.63	6.547	6.948	6.229	6.60	6.51	6.58	6.344	5.22	6.27	6.86
	6.693	5.94	6.455	6.199	6.707	6.98	6.68	6.64	6.821	6.678	6.387	6.67	6.51	6.40	6.325	5.25	6.34	6.65
Mean	6.728	6.11	6.462	6.473	6.680	6.89	6.69	6.62	6.673	6.783	6.310	6.68	6.22	6.56	6.341	5.08	6.33	6.75
Std. Dev	0.11	0.39	0.20	0.30	0.05	0.06	0.04	0.01	0.12	0.14	0.07	0.07	0.33	0.12	0.02	0.24	0.11	0.14
% RSD	1.58	6.36	3.15	4.67	0.78	0.83	0.60	0.21	1.79	2.03	1.12	1.05	5.38	1.82	0.31	4.77	1.68	2.05

	Lab 1	Lab 5	Lab 9	Lab 10	Lab 11	Lab 15	Lab 16	Lab18
	Cu (ppm) by 4 Acid digestion Instrumental finish							
GS-7N	98	89.6	99.3	97.8	87.2	89.2	97	86.2
	95	83.4	95.4	94.9	90.2	89.2	98	80.4
	97	82.7	94.9	89.1	88.9	89.6	91	83.4
	96	83.0	93.1	99.2	87.1	89.9	96	82.1
	95	82.4	97.0	101.2	88.2	89.6	91	82.3
	98	83.4	91.5	97.5	89.0	89.5	90	86.5
	100	81.7	94.9	99.3	88.8	89.4	92	85.4
	99	82.2	91.2	96.7	86.9	89.5	91	85.2
Mean	97	83.6	94.7	97.0	88.3	89.5	93	83.9
Std. Dev	1.83	2.53	2.73	3.69	1.16	0.22	3.20	2.21
% RSD	1.88	3.02	2.88	3.81	1.31	0.25	3.43	2.64
	Pb (ppm) by 4 Acid digestion Instrumental finish							
GS-7N	127.0	135.8	121.0	145.1	119.3	116.5	119	134
	131.0	134.9	121.2	145.0	122.4	115.6	121	129
	127.5	135.7	120.5	145.1	123.1	112.5	116	131
	125.5	138.6	118.3	145.2	120.4	113.7	120	132
	131.0	135.7	124.4	145.2	123.1	114.3	122	130
	125.5	135.5	123.1	145.2	122.4	114.1	118	137
	127.0	137.8	122.0	145.2	119.4	113.6	117	131
	126.0	138.2	121.1	145.2	117.6	113.1	119	133
Mean	127.6	136.5	121.5	145.1	121.0	114.2	119	132
Std. Dev	2.24	1.41	1.81	0.07	2.08	1.31	2.00	2.53
% RSD	1.76	1.04	1.49	0.05	1.72	1.14	1.68	1.92
	Zn (ppm) by 4 Acid digestion Instrumental finish							
GS-7N	460.5	469.5	481	518.8	480.2	454.0	462	497
	472.0	480.3	472	516.2	484.4	456.3	461	497
	459.0	481.1	467	486.4	483.3	456.8	476	491
	460.5	487.2	460	506.3	476.0	452.3	483	493
	457.0	469.5	483	511.5	486.5	453.8	466	492
	455.3	474.2	472	510.4	471.8	453.1	460	509
	458.0	475.6	470	484.0	480.2	456.4	472	500
	469.3	490.9	467	487.1	477.1	452.3	476	506
Mean	461.4	478.6	472	502.6	479.9	454.4	469.5	498
Std. Dev	5.98	7.82	7.54	14.40	4.85	1.89	8.49	6.56
% RSD	1.30	1.63	1.60	2.86	1.01	0.42	1.81	1.32

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

	Lab 1	Lab 5	Lab 9	Lab 10	Lab 11	Lab 15	Lab 16	Lab18
	As (ppm) by 4Acid digestion Instrumental finish							
GS-7N	693	-	719.9	-	713.0	-	739.0	208.9
	686	-	703.5	-	721.9	-	743.0	238.4
	694	-	702.3	-	731.3	-	730.0	214.6
	688	-	692.4	-	725.6	-	739.0	209.7
	698	-	720.0	-	726.1	-	728.0	201.7
	688	-	694.9	-	704.6	-	710.0	238.0
	701	-	700.5	-	720.3	-	721.0	228.2
	696	-	702.6	-	689.9	-	755.0	235.0
Mean	693	-	704.5	-	716.6	-	733.1	221.8
Std. Dev	5.32	-	10.29	-	13.64	-	13.95	14.74
% RSD	0.77	-	1.46	-	1.90	-	1.90	6.65
	Al (%) by 4Acid digestion Instrumental finish							
GS-7N	0.94	-	0.936	-	0.939	0.929	0.93	1.17
	0.95	-	0.962	-	0.968	0.929	0.93	1.16
	0.95	-	0.938	-	0.949	0.930	0.95	1.14
	0.93	-	0.923	-	0.941	0.927	0.95	1.12
	0.92	-	0.964	-	0.943	0.923	0.93	1.13
	0.94	-	0.932	-	0.927	0.926	0.92	1.16
	0.93	-	0.925	-	0.942	0.926	0.93	1.16
	0.93	-	0.938	-	0.929	0.924	0.93	1.14
Mean	0.94	-	0.940	-	0.942	0.927	0.93	1.15
Std. Dev	0.01	-	0.02	-	0.01	0.00	0.01	0.02
% RSD	1.13	-	1.65	-	1.35	0.25	1.14	1.53
	Ba (ppm) by 4Acid digestion Instrumental finish							
GS-7N	103	-	101.3	98.31	102.48	94.22	103	98
	107	-	101.1	98.92	104.91	95.32	103	97
	106	-	101.2	98.98	100.16	95.51	105	99
	106	-	100.8	98.05	101.96	93.28	106	98
	110	-	101.7	98.55	101.64	95.36	102	99
	105	-	99.4	98.74	98.26	94.23	103	102
	108	-	100.5	98.63	100.80	94.28	104	99
	107	-	101.0	98.98	100.27	94.54	102	100
Mean	107	-	100.9	98.64	101.31	94.59	104	99
Std. Dev	2.07	-	0.69	0.33	1.96	0.76	1.41	1.51
% RSD	1.94	-	0.69	0.34	1.93	0.80	1.37	1.53
	Ca (%) by 4 Acid digestion Instrumental finish							
GS-7N	1.09	-	1.15	-	1.13	1.08	1.2	1.24
	1.09	-	1.18	-	1.17	1.07	1.2	1.25
	1.07	-	1.15	-	1.14	1.08	1.2	1.23
	1.07	-	1.13	-	1.10	1.08	1.2	1.24
	1.09	-	1.18	-	1.15	1.08	1.1	1.25
	1.06	-	1.15	-	1.07	1.08	1.2	1.28
	1.07	-	1.14	-	1.13	1.07	1.2	1.23
	1.06	-	1.15	-	1.10	1.08	1.2	1.24
Mean	1.08	-	1.15	-	1.12	1.08	1.2	1.25
Std. Dev	0.01	-	0.02	-	0.03	0.00	0.04	0.02
% RSD	1.22	-	1.56	-	2.69	0.23	2.98	1.29

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

	Lab 1	Lab 5	Lab 9	Lab 10	Lab 11	Lab 15	Lab 16	Lab18
	Co (ppm) by 4 Acid digestion Instrumental finish							
GS-7N	6	-	5.2	7.98	4.86	5.81	-	5.6
	7	-	5.2	8.38	5.29	5.81	-	5.4
	7	-	5.2	8.61	5.42	5.87	-	5.5
	6	-	5.2	8.76	5.13	5.80	-	5.7
	7	-	5.4	8.84	4.87	5.79	-	5.8
	7	-	5.2	8.31	5.26	5.83	-	5.7
	7	-	5.1	8.12	5.27	5.84	-	5.6
	7	-	5.2	8.67	5.29	5.82	-	5.6
Mean	7	-	5.2	8.46	5.17	5.82	-	5.6
Std. Dev	0.46	-	0.08	0.31	0.21	0.03	-	0.12
% RSD	6.86	-	1.60	3.68	3.97	0.43	-	2.22
	Cr (ppm) by 4 Acid digestion Instrumental finish							
GS-7N	54	69	56	56.12	51.6	52.9	61	58
	55	67	57	54.58	50.9	53.1	61	56
	53	68	56	54.12	51.5	53.4	63	56
	52	67	54	56.07	49.3	52.8	69	56
	54	68	57	54.51	52.7	53.2	54	55
	51	68	54	52.51	49.6	52.1	57	57
	52	65	54	59.45	52.1	53.2	57	56
	52	67	55	53.04	52.7	53.0	59	56
Mean	53	67	55	55.05	51.3	53.0	60	56
Std. Dev	1.36	1.08	1.30	2.18	1.30	0.41	4.58	0.89
% RSD	2.56	1.61	2.35	3.97	2.52	0.77	7.62	1.58
	Fe (%) by 4 Acid digestion Instrumental finish							
GS-7N	3.09	-	3.13	3.07	3.12	3.00	3.18	3.36
	3.10	-	3.25	3.27	3.16	2.96	3.16	3.32
	3.09	-	3.14	3.32	3.09	2.92	3.21	3.34
	3.07	-	3.14	3.26	3.12	2.94	3.24	3.34
	3.09	-	3.25	3.31	3.09	2.94	3.16	3.36
	3.10	-	3.16	3.35	3.06	2.97	3.15	3.45
	3.09	-	3.12	3.13	3.11	2.96	3.17	3.37
	3.08	-	3.15	3.29	3.09	2.97	3.15	3.38
Mean	3.09	-	3.17	3.25	3.10	2.96	3.18	3.37
Std. Dev	0.01	-	0.05	0.10	0.03	0.02	0.03	0.04
% RSD	0.32	-	1.65	3.03	0.95	0.82	1.01	1.17
	K (%) by 4 Acid digestion Instrumental finish							
GS-7N	0.35	-	0.344	-	0.355	0.355	0.4	0.37
	0.35	-	0.352	-	0.356	0.345	0.4	0.36
	0.35	-	0.344	-	0.356	0.344	0.4	0.36
	0.35	-	0.337	-	0.350	0.343	0.4	0.36
	0.35	-	0.353	-	0.346	0.342	0.4	0.36
	0.35	-	0.342	-	0.338	0.346	0.4	0.37
	0.35	-	0.341	-	0.344	0.346	0.4	0.36
	0.35	-	0.344	-	0.342	0.349	0.4	0.36
Mean	0.35	-	0.344	-	0.348	0.346	0.4	0.36
Std. Dev	0.00	-	0.01	-	0.01	0.00	0.00	0.00
% RSD	0.00	-	1.60	-	2.04	1.19	0.00	1.28

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

	Lab 1	Lab 5	Lab 9	Lab 10	Lab 11	Lab 15	Lab 16	Lab18
	Mg (%) by 4 Acid digestion Instrumental finish							
GS-7N	0.36	-	0.358	-	0.358	0.357	0.35	0.44
	0.35	-	0.368	-	0.365	0.352	0.35	0.44
	0.35	-	0.358	-	0.359	0.359	0.35	0.44
	0.35	-	0.354	-	0.358	0.355	0.36	0.44
	0.36	-	0.368	-	0.357	0.357	0.35	0.44
	0.35	-	0.357	-	0.350	0.356	0.34	0.45
	0.36	-	0.355	-	0.355	0.360	0.35	0.44
	0.35	-	0.360	-	0.354	0.357	0.35	0.44
Mean	0.35	-	0.360	-	0.357	0.357	0.35	0.44
Std. Dev	0.01	-	0.01	-	0.00	0.00	0.01	0.00
% RSD	1.46	-	1.52	-	1.23	0.71	1.53	0.80
	Mn (ppm) by 4 Acid digestion Instrumental finish							
GS-7N	310	264	311	358.6	313.8	293	317	325
	303	276	326	343.3	319.1	294	315	314
	306	270	316	342.0	312.7	297	318	323
	303	269	310	361.3	304.2	293	324	319
	311	264	322	360.3	315.9	293	317	326
	306	264	314	353.9	304.2	295	312	330
	306	267	312	370.3	309.5	294	312	324
	302	272	314	366.6	304.2	297	314	327
Mean	306	268	316	357.0	310.4	294	316	324
Std. Dev	3.27	4.32	5.60	10.17	5.82	1.60	3.91	4.99
% RSD	1.07	1.61	1.78	2.85	1.87	0.54	1.24	1.54
	S (%) by 4 Acid digestion Instrumental finish							
GS-7N	1.84	-	1.85	-	1.76	1.974	-	1.81
	1.83	-	1.90	-	1.77	1.917	-	1.80
	1.83	-	1.85	-	1.81	1.931	-	1.79
	1.82	-	1.82	-	1.80	1.935	-	1.79
	1.83	-	1.89	-	1.80	1.977	-	1.80
	1.83	-	1.84	-	1.74	1.915	-	1.88
	1.84	-	1.83	-	1.79	1.947	-	1.84
	1.84	-	1.85	-	1.75	1.941	-	1.84
Mean	1.83	-	1.85	-	1.78	1.942	-	1.82
Std. Dev	0.01	-	0.03	-	0.02	0.02	-	0.03
% RSD	0.39	-	1.47	-	1.26	1.20	-	1.75
	Sb (ppm) by 4 Acid digestion Instrumental finish							
GS-7N	331	-	343.69	-	320.3	320.28	328	283.9
	334	-	339.03	-	318.1	319.99	327	223.0
	330	-	343.47	-	325.7	319.16	354	243.8
	335	-	335.81	-	315.4	319.53	346	256.4
	339	-	349.05	-	322.1	321.40	320	244.7
	329	-	343.21	-	318.9	321.67	334	264.7
	327	-	341.90	-	324.6	319.37	329	229.2
	318	-	341.14	-	326.8	319.53	332	267.8
Mean	330	-	342.16	-	321.5	320.12	334	251.7
Std. Dev	6.28	-	3.85	-	4.01	0.95	11.04	20.45
% RSD	1.90	-	1.13	-	1.25	0.30	3.31	8.13

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

	Lab 1	Lab 5	Lab 9	Lab 10	Lab 11	Lab 15	Lab 16	Lab18
	Sr (ppm) by 4 Acid digestion Instrumental finish							
GS-7N	39	-	39.90	42.47	38.90	39.52	42	42
	41	-	39.25	42.47	39.57	39.47	41	42
	40	-	39.44	42.45	38.12	39.78	42	41
	40	-	38.28	42.46	38.24	39.27	41	41
	40	-	40.53	42.48	38.12	39.49	39	42
	40	-	39.48	42.48	37.01	39.87	40	43
	40	-	39.96	42.46	37.79	39.70	40	42
	41	-	39.17	42.48	37.57	39.47	42	42
Mean	40	-	39.50	42.47	38.17	39.57	41	42
Std. Dev	0.64	-	0.67	0.01	0.79	0.20	1.13	0.64
% RSD	1.60	-	1.68	0.03	2.06	0.50	2.75	1.53
	V (ppm) by 4 Acid digestion Instrumental finish							
GS-7N	33	-	31	25.01	32.11	32.81	33	37
	34	-	31	25.04	32.69	31.64	33	37
	34	-	31	25.01	33.14	30.81	35	38
	33	-	30	25.02	32.59	32.19	34	38
	34	-	30	25.01	32.31	31.92	33	38
	33	-	29	25.01	31.90	31.92	33	39
	34	-	30	25.04	32.63	31.98	33	38
	34	-	31	25.03	31.58	33.40	33	39
Mean	34	-	30	25.02	32.37	32.08	33	38
Std. Dev	0.52	-	0.74	0.01	0.50	0.77	0.74	0.76
% RSD	33	-	31	25.01	32.11	32.81	33	37

	Lab 5	Lab 6	Lab 9	Lab 11	Lab 16	Lab18
	S (%) by 4 Acid digestion Instrumental finish					
GS-7N	2.07	1.88	1.88	1.84	1.83	1.87
	1.82	1.87	1.88	1.78	1.82	1.88
	1.80	1.86	1.88	1.80	1.81	1.88
	2.07	1.86	1.87	1.81	1.82	1.88
	1.88	1.87	1.90	1.83	1.81	1.89
	2.00	1.87	1.90	1.78	1.82	1.89
	1.92	1.87	1.90	1.79	1.83	1.89
	2.02	1.87	1.86	1.77	1.81	1.89
Mean	1.95	1.87	1.88	1.80	1.82	1.88
Std. Dev	0.11	0.01	0.02	0.03	0.01	0.01
% RSD	5.49	0.34	0.80	1.42	0.41	0.39

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

	Lab 1	Lab 9	Lab 10	Lab 11	Lab 15	Lab 16
	SiO2 (%) XRF					
GS-7N	82.88	86.30	81.50	83.41	86.22	88.37
	82.80	85.78	81.55	83.26	86.13	87.09
	82.99	86.25	81.91	83.61	86.26	87.01
	82.86	85.95	81.21	83.84	86.31	87.10
	82.97	86.06	80.93	83.32	85.97	87.36
	82.95	85.81	81.47	83.37	86.20	87.58
	82.95	86.04	81.24	83.72	85.86	87.18
	82.85	86.03	81.53	83.37	86.24	86.75
Mean	82.91	86.03	81.42	83.49	86.15	87.31
Std. Devn.	0.07	0.18	0.29	0.21	0.16	0.49
% RSD	0.08	0.22	0.36	0.25	0.18	0.57
	Al2O3 (%) XRF					
GS-7N	1.74	1.75	1.72	1.84	1.78	1.81
	1.71	1.78	1.69	1.77	1.81	1.76
	1.73	1.78	1.78	1.81	1.82	1.77
	1.74	1.74	1.77	1.79	1.71	1.77
	1.74	1.78	1.73	1.81	1.75	1.78
	1.75	1.75	1.84	1.77	1.67	1.77
	1.73	1.76	1.69	1.80	1.84	1.79
	1.73	1.78	1.71	1.73	1.80	1.77
Mean	1.73	1.77	1.74	1.79	1.77	1.78
Std. Devn.	0.01	0.02	0.05	0.03	0.06	0.02
% RSD	0.69	0.96	2.87	1.83	3.32	0.89
	CaO (%) XRF					
GS-7N	-	1.54	1.86	1.68	1.59	1.57
	-	1.55	1.84	1.63	1.57	1.56
	-	1.55	1.91	1.59	1.58	1.55
	-	1.55	1.87	1.55	1.58	1.58
	-	1.55	1.91	1.54	1.59	1.55
	-	1.54	1.82	1.56	1.61	1.57
	-	1.54	1.93	1.56	1.59	1.56
	-	1.53	1.83	1.49	1.59	1.56
Mean	-	1.54	1.87	1.58	1.59	1.56
Std. Devn.	-	0.01	0.04	0.06	0.01	0.01
% RSD	-	0.48	2.24	3.70	0.77	0.66

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

Fe2O3 (%) XRF						
GS-7N	3.95	4.49	4.85	4.46	4.75	4.58
	3.96	4.48	4.83	4.42	4.66	4.55
	3.94	4.53	4.48	4.40	4.66	4.53
	3.97	4.44	4.76	4.55	4.70	4.55
	3.97	4.53	4.77	4.40	4.71	4.54
	3.95	4.52	4.56	4.34	4.76	4.54
	3.97	4.47	4.80	4.46	4.71	4.62
	3.98	4.46	4.95	4.37	4.70	4.54
Mean	3.96	4.49	4.75	4.43	4.71	4.56
Std. Devn.	0.01	0.03	0.16	0.07	0.04	0.03
% RSD	0.34	0.75	3.27	1.49	0.74	0.65
K2O (%) XRF						
GS-7N	0.43	0.42	0.40	0.42	0.43	0.42
	0.43	0.41	0.38	0.45	0.42	0.42
	0.43	0.41	0.40	0.43	0.43	0.41
	0.43	0.41	0.40	0.44	0.42	0.42
	0.43	0.42	0.45	0.44	0.42	0.42
	0.43	0.42	0.39	0.46	0.43	0.43
	0.43	0.42	0.40	0.43	0.43	0.42
	0.43	0.42	0.38	0.43	0.43	0.42
Mean	0.43	0.42	0.40	0.44	0.42	0.42
Std. Devn.	0.00	0.01	0.02	0.01	0.00	0.01
% RSD	0.00	1.24	5.50	3.18	0.82	1.27
MgO (%) XRF						
GS-7N	0.61	0.59	0.61	0.60	0.56	0.63
	0.62	0.61	0.61	0.58	0.57	0.61
	0.61	0.61	0.61	0.57	0.57	0.60
	0.62	0.61	0.62	0.57	0.54	0.61
	0.62	0.61	0.61	0.57	0.59	0.62
	0.61	0.61	0.60	0.57	0.56	0.61
	0.62	0.61	0.60	0.58	0.58	0.62
	0.62	0.60	0.62	0.57	0.56	0.61
Mean	0.62	0.61	0.61	0.57	0.57	0.61
Std. Devn.	0.01	0.01	0.01	0.01	0.02	0.01
% RSD	0.84	1.23	1.17	1.60	2.92	1.49
LOI (%) XRF						
GS-7N	3.58	2.78	3.219	3.068	3.87	3.250
	3.58	2.85	3.239	3.082	3.82	3.309
	3.58	2.76	3.199	3.043	3.79	3.290
	3.58	2.83	3.270	2.957	3.77	3.120
	3.58	2.82	3.440	3.374	3.88	3.190
	3.58	2.80	3.388	3.291	3.91	3.159
	3.58	2.76	3.379	3.171	3.94	3.189
	3.58	2.78	3.298	3.126	3.84	3.300
Mean	3.58	2.80	3.304	3.139	3.85	3.226
Std. Devn.	0.00	0.03	0.09	0.14	0.06	0.07
% RSD	0.00	1.19	2.68	4.34	1.52	2.20

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

APPENDIX II:

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

Al Amri Labs, Saudi Arabia	Newlyn Lab Services, South Africa
GeoAngol, Angola	QKR Navachab Gold Mine Laboratory
Intertek OreZone, Burkina Faso	QLS Saudi Arabia
Intertek Perth, Australia	SGS Kalgoorlie WA, Australia
Intertek Minerals Ltd Somisa SA Minesite Lab, Burkina Faso	SGS South Africa (Pty) Ltd - Barberton
Intertek Mineral Tarkwa Ghana	SGS Burnaby, BC Canada
Jinning Testing and Inspection, Maddington, Australia	Shamva Gold Mine Assay Laboratory, Zimbabwe
MSA Langley, BC, Canada	Shiva Analytical India
Nesch Mintec Lab Tanzania	Skyline Assayers and Labs, Az, USA

APPENDIX III: QAQC

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

Standard	Study Date	Total weight Screened (g)	Total weight Over size (g)	Percentage
GS-7N	16-Apr-24	300	4.5	1.5%
	16-Apr-24	300	5	1.7%
	16-Apr-24	300	5.5	1.8%

The table below shows homogeneity test results of CDN-GS-7N

	Au Original	Au Repeat	Between Sample Variance Wt	Sample Avg. Xt	Stdev of Sample Avg	Within-Sample Std.
GS-7N	6.56	6.67	0.110	6.615	0.015	0.012
	6.77	6.66	0.110	6.715	0.050	0.012
	6.61	6.51	0.100	6.560	0.005	0.010
	6.54	6.42	0.120	6.480	0.000	0.014
	6.41	6.39	0.020	6.400	0.008	0.000
	6.63	6.37	0.260	6.500	0.000	0.068
	6.58	6.20	0.380	6.390	0.010	0.144
	6.40	6.69	0.290	6.545	0.003	0.084
	6.32	6.29	0.030	6.305	0.034	0.001
	6.34	6.53	0.190	6.435	0.003	0.036
	6.48	6.27	0.210	6.375	0.013	0.044
	6.51	6.31	0.200	6.410	0.007	0.040
	6.64	6.61	0.030	6.625	0.018	0.001
	6.72	6.55	0.170	6.635	0.021	0.029
	6.36	6.38	0.020	6.370	0.015	0.000
Statistics			**Gavg**	**SX**	**SS**	
Mean	6.525	6.457	**6.491**	**0.120**	**0.079**	
SD	0.1385	0.1583	**C**	**C SQRT**		
RSD	2.123	2.452	**0.0363**	**0.19**		

Based on Statistical procedures outlined in Annex B, ISO 13528:2015 guidelines, if "SS is < square root of C" Standard is considered homogeneous. **GS-7N is statistically homogenous**

APPENDIX IV: 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.