

Certificate of Analysis

STANDARD REFERENCE MATERIAL: CDN-GS-4P

Gold	3.79 g/t ± 0.25 g/t	Certified value	30g FA / AA or ICP Finish
Gold	3.832 g/t ± 0.168 g/t	Certified value	Gamma ray- photon assay instrument
Arsenic	678 ppm ± 32 ppm	Certified value	Aqua Regia/ ICP or ICP-MS
Mercury	22.2 ppm ± 1.6 ppm	Certified value	Aqua Regia/ ICP or ICP-MS

Recommended values and the "Between Lab" Two Standard Deviations

Note 1: Standards with an RSD of near or less than 5% are certified; RSD's of between 5% and 15% are Provisional; RSDs over 15% are Indicated. Provisional and Indicated values cannot be used to monitor accuracy with a high degree of certainty.

PREPARED BY:
PREPARATION CERTIFIED BY:
CERTIFIED BY INDEPENDENT GEOCHEMIST:
DATE OF CERTIFICATION:

CDN Resource Laboratories Ltd. Ali Alizadeh, MSc, MBA, P Geo Dr. Barry Smee., Ph.D., FGC April 21st, 2024

ORIGIN OF MATERIAL:

CDN-GS-4P 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.

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 15 commercial laboratories for round robin assaying.

Assay Procedures:

Au:	30 gr Fire assay pre-concentration, ICP or AA finish
Au:	Gamma ray analysis by photon assay instrument
As, Hg:	Aqua Regia digestion with / ICP or ICP-MS

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 ±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 was randomly collected and was re-screened by a testing sieve. Over size material of this standard and based on CDN's screening test was ~%1.0.

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



Ali Alizadeh, MSc, MBA, P.Geo.

Geochemist

Dr. Barry Smee, PhD, FGC

APPENDIX I:

Whole rock analysis and 30 element ICP analysis (4-acid digestion) were also conducted on 3 samples.

APPROXIMATE CHEMICAL COMPOSITION (by whole rock analysis):

Analyte	Percent	Analyte	Percent
SiO2	87.7	K ₂ O	0.4
Al ₂ O ₃	1.6	TiO2	<0.1
Fe ₂ O ₃	3.9	MnO	0.04
CaO	1.6	LOI	3.8
MgO	0.6	Total S	1.8
Na₂O	0.02	Total C	0.9



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

Activation Labs, Ancaster, Ontario, Canada	Bureau Veritas, Perth, Australia
Activation Labs, Thunder Bay, Ontario, Canada	Bureau Veritas, Vancouver, BC, Canada
AGAT, Calgary, AB, Canda	Certimin S.A., Lima, Peru
ALS, Brisbane, Australia	Intertek Genalysis, Maddington, Australia
ALS, Perth, Australia	MS Analytical, Langley, BC, Canada
ALS Lima, Peru	MS Analytical, Prince George, BC, Canada
ALS, Loughrea, Ireland	MS Analytical, Val-d'Or, QB, Canada
ALS Johannesburg, South Africa	MS Analytical, Timmins, ON, Canada
ALS Kalgoorlie, Australia	SGS Lakefield, ON, Canada
ALS Canada, North Vancouver, BC, Canada	SGS, Vancouver, BC, Canada

APPENDIX II: Results from round-robin assaying:

	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6					
	Au (g/t) by Gamma ray analysis by photon assay instrument										
	3.81	3.78	3.66	3.866	3.827	3.758					
	3.95	3.89	3.76	3.729	4.055	3.818					
4	3.73	3.70	3.86	3.847	3.985	3.850					
S-4	3.79	3.89	3.83	3.875	3.907	3.869					
G	3.92	3.93	3.61	3.871	4.074	3.859					
	3.79	3.84	3.69	3.814	4.027	3.856					
	3.88	3.82	3.77	3.781	3.872	3.944					
	3.80	3.71	3.85	3.839	3.940	3.860					
	3.90	3.81	3.67	3.763	4.016	4.334					
	3.72	3.76	3.74	3.740	3.907	3.919					
Mean	3.83	3.81	3.74	3.813	3.961	3.907					
Std. Devn.	0.08	0.08	0.09	0.056	0.08	0.16					
% RSD	2.07	2.02	2.29	1.457	2.09	4.05					

	Lab 1	Lab 2	Lab 3	Lab 8	Lab 4	Lab 5	Lab 6	Lab 7	Lab 9	Lab 10	Lab 11	Lab 12	Lab 13	Lab 14	Lab 15
Sample	Au (g/t) 30 gr Fire assay pre-concentration, ICP or AA finish														
	3.45	3.66	3.69	3.85	3.85	3.72	3.79	3.65	3.78	3.69	3.956	4.006	3.429	4.00	3.80
	3.59	3.74	3.93	3.81	3.77	3.78	3.81	3.65	3.75	3.91	3.889	3.909	3.418	3.82	3.76
	3.37	3.74	3.60	3.82	3.71	3.77	3.87	-	3.67	3.66	4.003	4.041	3.469	3.83	3.85
	3.71	3.77	3.71	3.87	3.94	3.75	3.85	3.67	3.16	3.70	3.872	4.041	3.575	4.01	3.84
4P	3.42	3.71	3.72	3.85	3.68	3.79	3.79	3.72	3.64	3.74	3.886	4.049	3.420	3.92	3.79
GS-	3.62	3.48	3.83	3.86	3.82	3.53	3.91	3.74	3.84	3.81	3.921	3.953	3.571	3.99	3.77
	3.61	3.82	3.67	3.59	3.83	3.78	3.89	3.66	3.88	3.69	3.895	3.990	3.505	3.83	3.75
	3.60	3.79	3.68	3.86	3.96	3.79	3.83	3.69	3.77	3.69	3.959	4.049	3.625	3.92	3.83
	3.52	3.86	3.68	3.85	3.81	3.74	3.89	3.67	3.80	3.85	3.778	3.989	3.495	3.97	3.79
	3.49	3.74	3.73	3.84	3.79	3.86	3.87	3.73	3.69	3.77	3.790	3.969	3.452	3.85	3.81
Mean	3.54	3.73	3.72	3.82	3.82	3.75	3.85	3.69	3.70	3.75	3.895	4.000	3.496	3.91	3.80
Std. Dev	0.11	0.10	0.09	0.08	0.09	0.09	0.04	0.04	0.20	0.08	0.07	0.05	0.07	0.08	0.03
% RSD	2.99	2.80	2.49	2.17	2.31	2.30	1.12	0.95	5.50	2.20	1.83	1.17	2.08	1.95	0.89

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Hg (ppm) by Aqua Regia digestion ICP or MS finish															
	23.8	22.2	22.2	21.7	21.9	25.0	21.4	22.9	20.9	20.8	-	21	22.77	22.32	-
	23.9	22.1	22.2	22.3	21.8	24.6	21.8	22.7	21.2	22.1	-	21	22.68	22.56	-
	22.8	22.2	22.8	21.3	21.9	24.7	22.1	-	21.9	20.6	-	21	22.59	22.84	-
	23.4	22.2	22.8	21.0	21.3	25.3	21.5	21.5	20.7	21.7	-	23	22.57	22.78	-
4P	24.1	22.0	22.5	22.0	21.7	24.7	21.6	24.6	21.7	22.4	-	23	22.41	20.94	-
GS-	23.4	21.7	22.6	21.7	21.4	25.6	21.9	23.5	21.4	22.7	-	21	22.37	22.74	-
	24.3	22.7	23.0	21.9	21.6	25.8	22.0	23.3	21.9	21.2	-	23	22.63	21.69	-
	24.3	22.8	23.0	22.0	22.1	24.7	20.7	24.5	21.0	22.3	-	22	22.45	22.68	-
	23.3	23.0	22.3	21.8	21.6	24.1	21.8	22.8	21.3	22.7	-	21	22.34	21.54	-
	23.3	22.6	21.7	21.3	22.0	24.1	21.9	24.4	22.5	22.9	-	24	22.95	21.35	-
Mean	23.7	22.4	22.5	21.7	21.7	24.9	21.7	23.4	21.5	21.9	-	22	22.58	22.14	-
Std. Dev	0.50	0.41	0.41	0.39	0.26	0.57	0.406	1.02	0.55	0.83	-	1.15	0.19	0.70	-
% RSD	2.10	1.82	1.84	1.82	1.19	2.30	1.872	4.38	2.57	3.77	-	5.25	0.85	3.15	-
					As (ppm) by Aqua Regia digestion ICP or MS finish										
				As	(ppm) by A	qua Reg	gia diges	tion ICP	or MS fi	nish					
	791	745	634	As 668	(ppm) by A	qua Re g	gia diges 652	tion ICP 740	or MS fi 685	nish 706	-	685	676.4	700	662
	791 791	745 673	634 631	As 668 666	(ppm) by A 689 688	690 700	gia diges 652 656	tion ICP 740 744	or MS fi 685 688	nish 706 688	-	685 688	676.4 675.5	700 722	662 670
	791 791 767	745 673 684	634 631 666	As 668 666 652	(ppm) by A 689 688 690	.qua Reg 690 700 700	gia diges 652 656 667	tion ICP 740 744	or MS fi 685 688 685	nish 706 688 681	-	685 688 685	676.4 675.5 687.0	700 722 691	662 670 656
	791 791 767 806	745 673 684 763	634 631 666 643	As 668 666 652 666	(ppm) by A 689 688 690 685	qua Reg 690 700 700 700	gia diges 652 656 667 656	tion ICP 740 744 - 740	or MS fi 685 688 685 685	nish 706 688 681 679		685 688 685 685	676.4 675.5 687.0 679.2	700 722 691 717	662 670 656 657
4P	791 791 767 806 827	745 673 684 763 751	634 631 666 643 645	As 668 666 652 666 666	(ppm) by A 689 688 690 685 686	Aqua Reg 690 700 700 700 700	gia diges 652 656 667 656 657	tion ICP 740 744 - 740 748	or MS fi 685 688 685 685 685 678	nish 706 688 681 679 664	- - - - -	685 688 685 685 678	676.4 675.5 687.0 679.2 688.7	700 722 691 717 708	662 670 656 657 676
GS-4P	791 791 767 806 827 776	745 673 684 763 751 773	634 631 666 643 645 652	As 668 666 652 666 666 669	(ppm) by A 689 688 690 685 685 686 687	qua Reg 690 700 700 700 700 700 700	jia diges 652 656 667 656 657 655	tion ICP 740 744 - 740 748 745	or MS fi 685 688 685 685 685 678 678	nish 706 688 681 679 664 669	- - - - - -	685 688 685 685 678 670	676.4 675.5 687.0 679.2 688.7 684.2	700 722 691 717 708 704	662 670 656 657 676 675
GS-4P	791 791 767 806 827 776 759	745 673 684 763 751 773 759	634 631 666 643 645 652 636	As 668 666 652 666 666 669 670	(ppm) by A 689 688 690 685 685 686 687 690	qua Reg 690 700 700 700 700 700 700 700	fia diges 652 656 667 656 657 655 654	tion ICP 740 744 - 740 748 745 758	or MS fi 685 688 685 685 678 670 679	nish 706 688 681 679 664 669 688		685 688 685 685 678 670 679	676.4 675.5 687.0 679.2 688.7 684.2 684.7	700 722 691 717 708 704 677	662 670 656 657 676 675 655
GS-4P	791 791 767 806 827 776 759 796	745 673 684 763 751 773 759 764	634 631 666 643 645 652 636 647	As 668 666 652 666 666 669 670 669	(ppm) by A 689 688 690 685 685 686 687 690 686	qua Reg 690 700 700 700 700 700 700 700 680	jia diges 652 656 667 656 657 655 654 653	tion ICP 740 744 - 740 748 745 758 758 744	or MS fi 685 688 685 685 678 670 679 686	nish 706 688 681 679 664 669 688 677	- - - - - - - - - - -	685 688 685 685 678 670 679 686	676.4 675.5 687.0 679.2 688.7 684.2 684.7 688.3	700 722 691 717 708 704 677 714	662 670 656 657 676 675 655 658
GS-4P	791 791 767 806 827 776 759 796 789	745 673 684 763 751 773 759 764 758	634 631 666 643 645 652 636 647 626	As 668 666 652 666 666 669 670 669 674	(ppm) by A 689 688 690 685 686 686 687 690 686 683	qua Reg 690 700 700 700 700 700 700 680 680	fia diges 652 656 667 655 655 655 654 653 653	tion ICP 740 744 - 740 748 745 758 744 741	or MS fi 685 688 685 685 678 670 679 686 676	nish 706 688 681 679 664 669 688 677 660		685 688 685 685 678 670 679 686 676	676.4 675.5 687.0 679.2 688.7 684.2 684.2 684.7 688.3 673.2	700 722 691 717 708 704 677 714 681	662 670 656 657 676 675 655 658 668
GS-4P	791 767 806 827 776 759 796 789 802	745 673 684 763 751 773 759 764 758 774	634 631 666 643 645 652 636 647 626 621	As 668 666 652 666 666 669 670 669 674 671	(ppm) by A 689 688 690 685 686 687 690 686 683 683 683	qua Reg 690 700 700 700 700 700 700 680 680 680 710	jia diges 652 656 667 656 657 655 654 653 653 653	tion ICP 740 744 - 740 748 745 758 745 758 744 741 740	or MS fi 685 688 685 685 678 670 679 686 676 675	nish 706 688 681 679 664 669 688 677 660 673	- - - - - - - - - - - - - -	685 688 685 685 678 670 679 686 676 675	676.4 675.5 687.0 679.2 688.7 684.2 684.7 688.3 673.2 708.2	700 722 691 717 708 704 677 714 681 679	662 670 656 657 675 655 655 658 668
GS-4P Mean	791 767 806 827 776 759 796 789 802 790	745 673 684 763 751 773 759 764 758 774 774	634 631 666 643 645 652 636 647 626 621 640	As 668 666 666 666 669 670 669 674 671 667	(ppm) by A 689 688 690 685 686 687 690 686 683 683 683	qua Reg 690 700 700 700 700 700 680 680 710 696	fia diges 652 656 657 655 655 654 653 653 653 653	tion ICP 740 744 - 740 748 748 745 758 744 741 740 744	or MS fi 685 688 685 685 678 670 679 686 679 686 676 695 683	nish 706 688 681 679 664 669 688 677 660 673 673 679	- - - - - - - - - - - - - - - - - -	685 688 685 685 678 670 679 686 676 686 676 695 683	676.4 675.5 687.0 679.2 688.7 684.2 684.2 684.7 688.3 673.2 708.2 684.5	700 722 691 717 708 704 677 714 681 679 699	662 670 656 657 675 675 655 658 668 668 667
dt Sg Mean Std. Dev	791 767 806 827 7776 759 796 789 802 790 19.70	745 673 684 763 751 773 759 764 758 774 744 35.92	634 631 666 643 645 652 636 647 626 621 640 13.30	As 668 666 652 666 669 670 669 674 671 667 5.88	(ppm) by A 689 688 690 685 686 687 690 686 683 683 683 683 683	qua Reg 690 700 700 700 700 700 680 680 710 696 9.66	jia diges 652 656 657 655 655 654 653 653 653 653 653 656 4.33	tion ICP 740 744 740 748 745 758 744 741 740 744 5.79	or MS fi 685 688 685 685 678 677 679 686 676 676 695 683 7.06	nish 706 688 681 679 664 669 688 677 660 673 679 13.41	- - - - - - - - - - - - - - - - - - -	685 688 685 678 670 679 686 676 695 683 7.06	676.4 675.5 687.0 679.2 688.7 684.2 684.7 688.3 673.2 708.2 684.5 10.01	700 722 691 717 708 704 677 714 681 679 699 16.52	662 670 656 657 675 655 655 658 668 667 664 7.88

Notes: Hg results from Lab 6 and were removed for failing the t test. As results from Labs 1,2 and 8 were removed for failing the t test.

APPENDIX III: QAQC

QA/QC PROCEDURES.

All standards prepared by CDN Resource Laboratories will undergo QC Screening and Homogeneity testing. All material will be tested for nuggety gold and silver.

- CDN Resource Laboratories QAQC procedures include:
 - Screen QC After completion of homogenization, 300g of material will be collected from the mixer and will be re-screened through testing sieve. Over size should not exceed 3% of the total screened material. If over size exceeds 3% of the total screened material, material needs to be re-screened and rehomogenized.



• **Homogeneity QC** – CDN recommends conducting homogeneity study on all CRMs, based on ISO 13528 Annex B (Homogeneity and Stability of proficiency test items).

For homogeneity test, 15 randomly selected samples from each prepared grade will be sent to commercial assaying Laboratory. Each sample will be assayed twice and reported separately.

Assay results will go through a statistical work-up by checking the mean, standard deviation, and %RSD. Based on performed statistical works outlined by ISO 13528.

Table below illustrates percentages of over size (+275 mesh) material in CDN-GS-4P

Standard	Study Date	Total weight Screened (g)	Total weight Over size (g)	Percentage
	9/5/2023	300	2	0.7%
S-4P	9/5/2023	300	3	1.0%
9	9/5/2023	300	3	1.0%

Table below shows homogeneity test results of CDN-GS-4P

	Au Original	Au Repeat	Between Sample Variance Wt	Sample Avg. Xt	Within-Sample Std.
	3.474	3.570	0.096	3.522	0.001
	3.763	3.679	0.084	3.721	0.026
	3.656	3.409	0.247	3.533	0.001
	3.638	3.485	0.153	3.562	0.000
	3.518	3.546	0.028	3.532	0.001
-4P	3.744	3.562	0.182	3.653	0.009
GS	3.486	3.405	0.081	3.446	0.013
	3.472	3.593	0.121	3.533	0.001
	3.525	3.494	0.031	3.510	0.002
	3.501	3.707	0.206	3.604	0.002
	3.599	3.705	0.106 3.652		0.009
	3.445	3.481	0.036	3.463	0.009
	3.547	3.472	0.075	3.510	0.002
	3.593	3.546	0.047	3.570	0.000
	3.513	3.639	0.126	3.576	0.000
	Statistics		Statistics	Gavg	SS
Mean	3.565	3.553	3.559	0.074	0.039
SD	0.0983	0.0981	С	C SQRT	
RSD	2.758	2.760	0.0148	0.12	
Based on S	tatistical proced	ures outlined in Anr	nex B. ISO 13528:2015	guidelines. if "SS is < sau	are root of C" Standard is

considered homogeneous. CDN-GS-4P 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 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. 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 interlaboratory 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 30g Fire Assay determinations. For optimal results, we strongly recommend you assay our standards with similar methods using "at least" 30g 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.

Statistical Procedures

Round robin samples were sent to participating laboratories.

The mean and standard deviation for all data were calculated. Outliers were defined as samples beyond the mean \pm 2 Standard Deviations from all data. These outliers were removed from the data and a new mean and standard deviation were determined. This method makes use of actual "between-laboratory" standard deviation in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses.

Statistical analysis was carried out by Dr. Barry Smee, an independent statistician. A statistical report is provided along with a certificate of analysis.