Certificate of Analysis MEG, LLC

Moment Exploration GeoServices Email: standards@megllc.net Website: https://megllc.net

MEG-Au.17.01

Certified Reference Material MEAN = 0.381 ppm Au 95% Confidence = 0.351 to 0.410

MEAN = 6.522 ppm Ag 95% Confidence = 6.115 to 6.929

MEAN = 723.209 ppm Cu 95% Confidence = 685.558 to 760.859

Prepared By: Shea Clark Smith / Minerals Exploration & Environemental Geochemistry Certified By: Shea Clark Smith, MSc.(Geochemistry) Manufactured for: MEG LABS, Inc. Date of Certification: 'March 24 2017

Origin of Reference Material:

Certified Reference Material MEG-Au.17.01 ore material of the Walker Mine, California This material is not intended to be matrix-matched to any specific ore lithology.

Method of Preparation:

100 Kg of ore was jaw crushed and roll crushed. The batch was comminuted to powder in a ceramic ball mill for 168 hours Sizing tests of the final product show greater than 95% pass -177um (-80 mesh). The standard was packaged in 50 g envelopes, each envelope with a removable sticky-label.

Method of Analysis:

Using the ICPMS capabilities of just one laboratory, homogeneity tests were done to estimate Then, 10 samples each to 10 laboratories were fire assayed on 30 gram subsamples, and these data to certify the material for gold concentration. New fire assay crucibles were used. Silver and copper were certified by 4-acid digestion and trace element analysis by ICP-OES

Summarized Assay Results:

PROJECT: Au	17.01		
GOLD Au reported in p	m (parts per million)		PPM
DATA POINTS (ALL DA	A)		108
MEAN (ALL DATA)			0.382
STANDARD DEVIATION	(ALL DATA)		0.026
% RSD			6.760
RANGE OF VALUES - H	GH		0.471
RANGE OF VALUES - L	W		0.320
95% CONFIDENCE LIM	ΓS 0.330	to	0.434

DATA POINTS (LAB AVERAGE DATA)	11
MEAN (LABS)	0.381

STANDARD DEVIATION (LABS)			0.015
CV (% RSD)			0.013 3.911
RANGE OF VALUES - HIGH			
			0.400
RANGE OF VALUES - LOW			0.346
95% CONFIDENCE LIMITS	0.351	to	0.410
SILVER Ag reported in ppm (parts per m	nillion)		PPM
DATA POINTS (ALL DATA)			115
MEAN (ALL DATA)			6.525
STANDARD DEVIATION (ALL DATA)			0.294
% RSD			4.509
RANGE OF VALUES - HIGH			7.600
RANGE OF VALUES - LOW			5.800
95% CONFIDENCE LIMITS	5.937	to	7.114
DATA POINTS (LAB DATA)			11
MEAN (LABS)			6.522
STANDARD DEVIATION (LABS)			0.203
CV (% RSD)			3.120
RANGE OF VALUES - HIGH			6.818
RANGE OF VALUES - LOW			6.100
95% CONFIDENCE LIMITS	6.115	to	6.929
COPPER Cu reported in ppm			PPM
DATA POINTS (ALL DATA)			104
MEAN (ALL DATA)			723
STANDARD DEVIATION (ALL DATA)			24
% RSD			3.3
RANGE OF VALUES - HIGH			766
RANGE OF VALUES - LOW			654
95% CONFIDENCE LIMITS	676	to	771
DATA POINTS (LAB DATA)			10
MEAN (LABS)			723
STANDARD DEVIATION (LABS)			19
CV (% RSD)			2.6
RANGE OF VALUES - HIGH			751
RANGE OF VALUES - LOW			697
95% CONFIDENCE LIMITS	686	to	761

Statistical Procedures:

Acceptable assay limits are based on the results of 5 samples shipped to each of 10 laboratories. Some labs assayed submitted samples twice, in different months, or different years. The samples were submitted with other MEG standards in randomized order, so that as much as Standards with an RSD (Relative Standard Deviation) of near or less than 5% are termed "Certified", while RSD's 5% to 15% are designated "Provisional". RSD's over 15% are "Informational".

Instructions and Recommendations for Use:

Submit the entire contents of one 50 g envelope in random locations in the submittal, approximately every 10-20 samples. Use of blanks (samples with "below detection" concentration of analyte) are also recommended, randomly placed every 30-40 samples. . .. -.

Intended Use:

The standard material can be used to validate the analysis of samples from gold ores with a similar

The recommended concentrations and limits for this material are based on multiple assays from several laboratories and reflect a consensus of the inherent chemical concentration. These values are a first attempt at a chemical characterization to which to which later data may be added as experience with the material increases. later data may be added as experience with the material increases.

Slight variations in analytical procedures between laboratories will result in slight biases to the recommended statistical limits.

This standard material is not recommended for method development, nor instrumental calibration.

Handling Instructions:

The material is packaged in manila tin-top envelopes for easy open and close use. The material should be reblended just prior to use in the assay laboratory. This can be done with a micro-riffle splitter or rubber sheeting.

Simple agitation and shaking is not sufficient to rehomogenize prior to use.

Normal safety precautions for handling powders are recommended. The use of safety glasses, dust inhalation protection, gloves, and a laboratory coat are suggested.

Safety Notice:

A Material Safety Data Sheet (MSDS) is not required for this material. This material will not release or otherwise result in exposure to a hazaardous chemical, under normal conditions of use. Use regular precautions as for any work with fine powder material.

Legal Notice:

This certificate and the referenced material have been prepared with due care and attention. However, Minerals Exploration & Environmental Geochemistry (MEG Labs), and Shea Clark Smith, MSc, P.G., accept no liability for any decisions or actions taken following the use of this geochemical reference material.

Assay Data	Used to	Calculate	"True"	Gold Value:
------------	---------	-----------	--------	--------------------

Sample	Au (ppm)	Lab 1 Ag (ppm)	Cu (ppm)	Au (ppm)	Lab 2 Ag (ppm)	Cu (ppm)	Au (ppm)	Lab 3 Ag (ppm)	Cu (ppm)
Sample						· · · ·			
1	0.40	6.60	674.00	0.39	6.50	732.00	0.32	6.20	701.00
2	0.35	6.70	717.00	0.34	6.50	722.00	0.36	6.80	698.00
3	0.45	6.70	725.00	0.38	6.50	737.00	0.35	6.70	710.00
4	0.39	6.50	698.00	0.38	6.40	729.00	0.35	6.70	688.00
5	0.39	6.60	685.00	0.38	6.40	739.00	0.36	6.80	700.00
6	0.38	6.60	717.00	0.37	6.40	730.00	0.33	6.80	711.00
7	0.44	6.90	698.00	0.37	6.50	736.00	0.33	6.70	685.00
8	0.39	7.00	754.00	0.40	6.30	731.00	0.37	7.00	729.00
9	0.39	6.80	731.00	0.43	6.30	716.00		6.80	693.00
10	0.47	6.50	685.00		6.30	733.00		6.10	654.00
11	0.42	6.60	691.00						
12		6.90	683.00						
		Lab 4			Lab 5			Lab 6	
	Au (ppm)	Lab 4 Ag (ppm)	Cu (ppm)	Au (ppm)	Lab 5 Ag (ppm)	Cu (ppm)	Au (ppm)	Lab 6 Ag (ppm)	Cu (ppm)
1		Ag (ppm)			Ag (ppm)			Ag (ppm)	
1 _2	0.36	Ag (ppm) 6.60	706.00	0.37	Ag (ppm) 6.70	701.00	0.38	Ag (ppm) 6.50	722.00
2	0.36 0.39	Ag (ppm) 6.60 7.60	706.00 729.00	0.37 0.36	Ag (ppm) 6.70 6.50	701.00 748.00	0.38 0.42	Ag (ppm) 6.50 6.30	722.00 695.00
2 3	0.36 0.39 0.41	Ag (ppm) 6.60 7.60 6.30	706.00 729.00 689.00	0.37 0.36 0.37	Ag (ppm) 6.70 6.50 6.40	701.00 748.00 735.00	0.38 0.42 0.38	Ag (ppm) 6.50 6.30 6.60	722.00 695.00 720.00
2 3 4	0.36 0.39 0.41 0.40	Ag (ppm) 6.60 7.60 6.30 6.40	706.00 729.00 689.00 686.00	0.37 0.36 0.37 0.37	Ag (ppm) 6.70 6.50 6.40 6.50	701.00 748.00 735.00 740.00	0.38 0.42 0.38 0.36	Ag (ppm) 6.50 6.30 6.60 6.60	722.00 695.00 720.00 715.00
2 3 4 5	0.36 0.39 0.41 0.40 0.41	Ag (ppm) 6.60 7.60 6.30 6.40 6.50	706.00 729.00 689.00 686.00 715.00	0.37 0.36 0.37 0.37 0.37 0.38	Ag (ppm) 6.70 6.50 6.40 6.50 6.50 6.50	701.00 748.00 735.00 740.00 743.00	0.38 0.42 0.38 0.36 0.39	Ag (ppm) 6.50 6.30 6.60 6.60 6.50	722.00 695.00 720.00 715.00 729.00
2 3 4 5 6	0.36 0.39 0.41 0.40 0.41 0.39	Ag (ppm) 6.60 7.60 6.30 6.40 6.50 6.20	706.00 729.00 689.00 686.00	0.37 0.36 0.37 0.37 0.37 0.38 0.42	Ag (ppm) 6.70 6.50 6.40 6.50 6.50 6.50 6.50	701.00 748.00 735.00 740.00 743.00 736.00	0.38 0.42 0.38 0.36 0.39 0.37	Ag (ppm) 6.50 6.30 6.60 6.60 6.50 6.60	722.00 695.00 720.00 715.00 729.00 729.00
2 3 4 5 6 7	0.36 0.39 0.41 0.40 0.41 0.39 0.38	Ag (ppm) 6.60 7.60 6.30 6.40 6.50 6.20 6.50	706.00 729.00 689.00 686.00 715.00 691.00 697.00	0.37 0.36 0.37 0.37 0.37 0.38 0.42 0.36	Ag (ppm) 6.70 6.50 6.40 6.50 6.50 6.50 6.50 6.50	701.00 748.00 735.00 740.00 743.00 736.00 745.00	0.38 0.42 0.38 0.36 0.39 0.37 0.41	Ag (ppm) 6.50 6.30 6.60 6.60 6.50 6.60 6.40	722.00 695.00 720.00 715.00 729.00 729.00 702.00
2 3 4 5 6 7 8	0.36 0.39 0.41 0.40 0.41 0.39 0.38 0.39	Ag (ppm) 6.60 7.60 6.30 6.40 6.50 6.20	706.00 729.00 689.00 686.00 715.00 691.00	0.37 0.36 0.37 0.37 0.38 0.42 0.36 0.38	Ag (ppm) 6.70 6.50 6.40 6.50 6.50 6.50 6.50 6.50 6.50	701.00 748.00 735.00 740.00 743.00 736.00 745.00 738.00	0.38 0.42 0.38 0.36 0.39 0.37	Ag (ppm) 6.50 6.30 6.60 6.60 6.50 6.60 6.40 6.50	722.00 695.00 720.00 715.00 729.00 729.00 702.00 710.00
2 3 4 5 6 7 8 9	0.36 0.39 0.41 0.40 0.41 0.39 0.38	Ag (ppm) 6.60 7.60 6.30 6.40 6.50 6.20 6.50 6.30 6.20 6.20	706.00 729.00 689.00 686.00 715.00 691.00 697.00 703.00 701.00	0.37 0.36 0.37 0.37 0.38 0.42 0.36 0.38 0.39	Ag (ppm) 6.70 6.50 6.40 6.50 6.50 6.50 6.50 6.50 6.50 6.30	701.00 748.00 735.00 740.00 743.00 736.00 745.00 738.00 713.00	0.38 0.42 0.38 0.36 0.39 0.37 0.41 0.35 0.40	Ag (ppm) 6.50 6.30 6.60 6.60 6.50 6.60 6.40 6.50 6.50 6.50	722.00 695.00 720.00 715.00 729.00 729.00 702.00 710.00 692.00
2 3 4 5 6 7 8	0.36 0.39 0.41 0.40 0.41 0.39 0.38 0.39	Ag (ppm) 6.60 7.60 6.30 6.40 6.50 6.20 6.50 6.50 6.30	706.00 729.00 689.00 686.00 715.00 691.00 697.00 703.00	0.37 0.36 0.37 0.37 0.38 0.42 0.36 0.38	Ag (ppm) 6.70 6.50 6.40 6.50 6.50 6.50 6.50 6.50 6.50	701.00 748.00 735.00 740.00 743.00 736.00 745.00 738.00	0.38 0.42 0.38 0.36 0.39 0.37 0.41 0.35	Ag (ppm) 6.50 6.30 6.60 6.60 6.50 6.60 6.40 6.50	722.00 695.00 720.00 715.00 729.00 729.00 702.00 710.00

	Au (ppm)	Ag (ppm)	Cu (ppm)	Au (ppm)	Ag (ppm)	Cu (ppm)	Au (ppm)	Ag (ppm)	Cu (ppm)
1	0.36	6.80	740.00	0.37	6.60	758.00	0.40	7.00	720.00
2	0.40	6.80	743.00	0.39	6.20	766.00	0.39	7.00	742.00
3	0.39	7.10	745.00	0.38	6.80	736.00	0.39	7.00	754.00
4	0.39	6.70	738.00	0.39	6.20	746.00	0.38	7.00	760.00
5	0.39	6.70	726.00	0.38	6.20	746.00	0.41	7.00	737.00
6	0.37	7.00	731.00	0.38	6.60	748.00	0.41	7.00	735.00
7	0.34	6.50	735.00	0.37	6.40	742.00	0.38	7.00	721.00
8	0.36	6.70	734.00	0.40	6.40	758.00	0.38	7.00	739.00
9	0.38	6.60	760.00	0.37	6.40	754.00	0.40	6.00	721.00
10	0.34	6.60	747.00	0.40	6.60	760.00	0.40	6.00	741.00
11				0.39	6.40	754.00		7.00	
					6.40	748.00			
		Lab 10			Lab 11				
	Au (ppm)	Ag (ppm)	Cu (ppm)	Au (ppm)	Ag (ppm)	Cu (ppm)			
1	0.37	5.90		0.40	6.38	761.00			
2	0.35	6.40		0.41	6.29	762.00			
3	0.39	6.00		0.40	6.43	718.00			
4	0.38	6.00		0.38	6.31	699.00			
5	0.36	6.00		0.44	6.35	718.00			
6	0.37	6.20		0.36	6.26	706.00			
7	0.36	5.80		0.37	6.51	737.00			
8	0.39	6.20		0.36	6.56	757.00			
9	0.35	6.10		0.38	6.32	709.00			
10		6.40		0.43	6.28	710.00			
	estituents as	0-11							

Major Constituents as Oxides

Average of 10 samples:	4-acid, ICPMS (7	Fotal Digesti	on)						
Raw Data:	Al%	Ca%	Fe%	K%	Mg%	Na%	S%	Ti%	Si%
ICP/MS Data (n=10)	3.08	0.03	7.92	1.15	0.01	0.03	2.34	0.13	
Conversion Factor	1.8899	1.3992	1.4297	1.2046	1.6579	1.348	2.4953	1.6681	2.1392
	A102	CaO	Fe2O3	K2O	MgO	Na2O	SO3	TiO2	SiO2
									estimated
% Oxide:	5.82	0.04	11.32	1.39	0.02	0.04	5.84	0.22	86.91

Raw Data: ICP/MS Data (n=5)

Conversion Factor

Participating Laboratories:

American Assay Labs, Sparks Activation Labs, Kamloops ALS, Loughrea ALS, Vancouver BV-Inspectorate, Sparks McClelland, Reno Skyline, Tucson SGS, Burnaby

Certified By:

Shea Clark Smith, MSc., P.G.