Certificate of Analysis

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MEG-Ag.17.09

Certified Reference Material

MEAN = 16.719 ppm Ag
95% Confidence = 13.966 to 19.471

Prepared By: Shea Clark Smith / Minerals Exploration & Environemental Geochemistry
Certified By: Shea Clark Smith, MSc.(Geochemistry)
Manufactured for: MEG LABS
Date of Certification: Pending (This certificate is in process and not yet finalized)

Origin of Reference Material:
Certified Reference Material MEG-Au.17.09 was created from mineralized rock from the Hycroft (Brimstone oxide) pit, Humboldt County, NV.
This material is not intended to be matrix-matched to any specific ore lithology.

Method of Preparation:
163 Kg of rock (with a natural concentration of 0.65 ppm Au and 23 ppm Ag) was dried at 100C, jaw crushed, and roll crushed to -400 um.
Gold was added to the batch to achieve a concentration of about 1.1 ppm. Silver concentrations were not adjusted.
The batch was comminuted to powder in a ceramic ball mill for 192 hours.
Sizing tests of the final product show greater than 90% pass -74um (-200 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 multielement distributions from a 4-acid digestion (0.5 gram) from each of ten samples.
Then, ten samples each to ten laboratories were digested (4-acid, total) followed by ICPMS, and these data were used to certify the material for silver concentration.

Summarized Assay Results:

PROJECT: MEG-Ag.17.09

SILVER reported in PPM (parts per million)

DATA POINTS (ALL DATA)			**62**
MEAN (ALL DATA)			**16.719**
STANDARD DEVIATION (ALL DATA)			**1.376**
% RSD			**8.232**
RANGE OF VALUES - HIGH			**19.000**
RANGE OF VALUES - LOW			**12.831**
95% CONFIDENCE LIMITS	**13.966**	**to**	**19.471**

DATA POINTS (LAB AVERAGE DATA)			**6.000**
MEAN (LABS)			**16.688**
STANDARD DEVIATION (LABS)			**1.515**
CV (% RSD)			**9.078**
RANGE OF VALUES - HIGH			**18.364**
RANGE OF VALUES - LOW			**14.318**
95% CONFIDENCE LIMITS	**13.658**	**to**	**19.718**

Statistical Procedures:
Acceptable assay limits are based on the results of 10 samples shipped to each of 7 laboratories.
The samples were submitted with other MEG standards in randomized order, so that as much as possible, real operating conditions

were obtained from the participating laboratories. All of the data were used to determine an acceptable range, based on the mean and standard deviation of the "Lab Average Data". The acceptable reporting range is the "95% Confidence Limit", which is the mean +/- 2 standard deviations. Other statistics are provided to help the user assign viable acceptance boundries.

Standards with an RSD (Relative Standard Deviation) of near or less than 5% are termed "Certified", while RSD's between 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. The analytical request should be the same as that used for the round robin assays that generated this certificate.

Intended Use:
The standard material can be used to validate the analysis of samples from silver ores with a similar grade.
As a control sample in routine assay laboratory operations, it should behave within the limits as indicated statistically in this certification. Its intended use is to monitor inter-laboratory and instrumental bias within these limits.

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 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" Silver Value:

Sample	Lab 1 ppm Ag	Lab 2 ppm Ag	Lab 3 ppm Ag	Lab 4 ppm Ag	Lab 5 ppm Ag	Lab 6 ppm Ag	Lab 7 ppm Ag
1	17.130	16.700	18.550	18.550	14.348	16.000	18.000
2	17.110	16.800	17.500	17.500	13.994	16.000	19.000
3	17.240	17.300	17.150	17.150	14.711	16.000	19.000
4	17.590	17.100	17.300	17.300	14.354	16.000	18.000
5	17.510	17.000	17.550	17.550	12.831	16.000	18.000
6	17.470	16.900	17.050	17.050	14.416	16.000	19.000
7	17.040	16.600	17.150	17.150	15.679	16.000	18.000
8	17.580	16.700	17.700	17.700	15.134	16.000	18.000
9	17.520	17.100	16.350	16.350	14.495	15.000	18.000
10	17.130	16.500	16.950	16.950	13.221	16.000	18.000
11	17.110						19.000

Major Constituents as Oxides
Average of 10 samples: 4-acid, ICPMS

Raw Data:	Al%	Ca%	Fe%	K%	Mg%	Na%	S%	Ti%	Si%
ICP/MS Data (n=10)	8.00	0.05	2.73	2.27	0.03	0.34	4.98	0.05	
Conversion Factor	1.8899	1.3992	1.4297	1.2046	1.6579	1.348	2.4953	1.6681	2.1392
	Al02	**CaO**	**Fe2O3**	**K2O**	**MgO**	**Na2O**	**SO3**	**TiO2**	**SiO2** estimated
% Oxide:	**15.12**	**0.07**	**3.90**	**2.73**	**0.05**	**0.45**	**12.42**	**0.09**	**65.16**

Participating Laboratories:

AMERICAN ASSAY (Sparks, NV)
ALS-VANCOUVER
BV-VANCOUVER
FLORIN (Reno, NV)
MCCLELLAND (Sparks, NV)

Certified By: _____

Shea Clark Smith, MSc., P.G.