Certificate of Analysis Shea Clark Smith /MEG, Inc.

Minerals Exploration & Environmental Geochemistry
P.O. Box 18325 Reno, Nevada, U.S.A. 89511-0325
Email: SheaClarkSmith@aol.com Website: SheaClarkSmith.com
Tel: 775-849-2235

MEG-Au.13.04

Certified Reference Material
MEAN = 13.045 ppb Au
95% Confidence = 9.390 - 16.669

Prepared By: Shea Clark Smith / Minerals Exploration & Environemental Geochemistry

Certified By: Shea Clark Smith, MSc.(Geochemistry)

Manufactured for: MEG LABS **Date of Certification:** January 2, 2013

Origin of Reference Material:

Certified Reference Material MEG-Au.13.04 was created from Pediment gravels

from Washoe Valley, Nevada, USA.

This material is not intended to be matrix-matched to any specific ore lithology.

Method of Preparation:

Gravels from Washoe Valley pediments were dried at 100C,

jaw crushed, and roll crushed to -400 um.

The batch was comminuted to powder in a c

Sizing tests of the final product show greater than 93% 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 10 samples.

Then, 5 samples each to 10 laboratories were fire assayed on 30 gram subsamples with AAS finish, and these data were used to certify the material for gold concentration.

Summarized Assay Results:

PROJECT: MEG-Au.13.03 reported in ppm (parts per million)

DATA POINTS (ALL DATA)		89
MEAN (ALL DATA)		13.045
STANDARD DEVIATION (ALL DATA)		1.827
% RSD		14.01
RANGE OF VALUES - HIGH		19.000
RANGE OF VALUES - LOW		8.000
95% CONFIDENCE LIMITS 9.390	to	16.699

DATA POINTS (LAB DATA)		9
MEAN (LABS)		13.053
STANDARD DEVIATION (LABS)		0.869
CV (% RSD)		6.66
RANGE OF VALUES - HIGH		14.500
RANGE OF VALUES - LOW		12.000
95% CONFIDENCE LIMITS 11.314	to	14.791

Statistical Procedures:

Acceptable assay limits are based on the results of 10 samples shipped to each of 9 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 gold 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" Gold Value:

	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9
Sample	ppb Au								
1	14.000	12.000	13.000	12.000	12.000	15.000	14.000	17.000	15.000
2	16.000	11.000	12.000	13.000	13.000	12.000	13.000	12.000	12.000
3	13.000	12.000	12.000	12.000	12.000	13.000	17.000	15.000	14.000
4	13.000	15.000	12.000	12.000	14.000	14.000	14.000	8.000	15.000
5	12.000	13.000	14.000	12.000	11.000	15.000	16.000	11.000	15.000
6	12.000	11.000	14.000	12.000	13.000	12.000	14.000	8.000	12.000
7	13.000	12.000	13.000	12.000	10.000	11.000	15.000	12.000	12.000
8	14.000	14.000	13.000	12.000	11.000	15.000	13.000	12.000	19.000
9	12.000	15.000	13.000	11.000	12.000		13.000	16.000	11.000
10	12.000	14.000	15.000	13.000	12.000		16.000	11.000	16.000
11		14.000							

Major Constituents as Oxides

Average of 10 samples:	4-ACID, ICI	PMS (Total)	Digestion)					
Raw Data:	Al%	Ca%	Fe%	K%	Mg%	Na%	Si%	
ICP/MS Data (n=10)	6.87	2.27	1.03	1.40	0.23	2.84		
Conversion Factor	1.8899	1.3992	1.4297	1.2046	1.6579	1.348	2.1392	
	A102	CaO	Fe2O3	K2O	MgO	Na2O	SiO2	TOTAL
% Oxide:	12.98	3.17	1.47	1.68	0.38	3.82	estimated 76.49	100.00

Participating Laboratories:

UltraTrace ALS-Omac
Inspectorate ALS-Vancouver
Florin Activation
Skyline Acme
Genalysis American Assay

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Certified By:

Shea Clark Smith, MSc., P.G.