

Certificate of Analysis

MEG, LLC

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Pt.10.03

Certified Reference Material

MEAN =	1.030	ppm Pt	
95% Confidence =	0.918	to	1.144
MEAN =	4.469	ppm Pd	
95% Confidence =	3.839	to	5.099
MEAN =	0.930	ppm Au	
95% Confidence =	0.811	to	1.049

Prepared By: Shea Clark Smith, MEG, Inc.

Certified By: Shea Clark Smith, MEG, Inc.

Manufactured for: MEG LABS, INC.

Date of Certification: Sunday, November 20, 2011

Origin of Reference Material:

Reference material Pt.10.03 was created from ore of the Stillwater Complex; layered mafic intrusion. This material is not intended to be matrix-matched to any specific ore lithology.

Method of Analysis:

Ore characterization was accomplished by analysis of platinum group elements (Pd, Pd, & Au) by lead fire assay and ICP-AES or ICP-MS finish.

Five samples each to 10 laboratories were fire assayed for patinum, palladium and gold, on 30 gram subsamples, and these data were used to certify the material for PGE metal concentration. New fire assay crucibles were used.

Summarized Assay Results:

PROJECT: Pt.10.03

PLATINUM (PPM)

DATA POINTS (LAB DATA)	9
MEAN (LABS)	1.030
STANDARD DEVIATION (LABS)	0.057
CV (% RSD)	5.49
RANGE OF VALUES - HIGH	1.090
RANGE OF VALUES - LOW	0.928
95% CONFIDENCE LIMITS	0.917 to 1.143

PALLADIUM (PPM)

DATA POINTS (LAB DATA)	10
MEAN (LABS)	4.469
STANDARD DEVIATION (LABS)	0.315
CV (% RSD)	7.05
RANGE OF VALUES - HIGH	4.934
RANGE OF VALUES - LOW	3.868
95% CONFIDENCE LIMITS	3.839 to 5.099

GOLD (PPM)

DATA POINTS (LAB DATA)	10
MEAN (LABS)	0.930
STANDARD DEVIATION (LABS)	0.059
CV (% RSD)	6.38
RANGE OF VALUES - HIGH	1.043
RANGE OF VALUES - LOW	0.838
95% CONFIDENCE LIMITS	0.811 to 1.049

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 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 $\pm$ 2 standard deviations. Other statistics are provided to help the user assign viable acceptance boundaries.

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.

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 composition. The recommended concentrations and limits for this material are based on multiple assays from several laboratories and reflects 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. Later data may be added and recommended concentrations changed 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 hazardous 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, MEG LABS, Inc. and Shea Clark Smith, P.G., accept no liability for any decisions or actions taken following the use of this geochemical reference material.

Lab Assay Data Used to Calculate "True" Metal Values:

	Pt (ppm)	Pd (ppm)	Au (ppm)
LAB 1	1.090	4.646	0.954
LAB 2	0.928	3.868	0.838
LAB 3	1.033	4.336	0.934
LAB 4	1.033	4.797	0.948
LAB 5	1.065	4.402	0.965
LAB 6	1.083	4.299	0.849
LAB 7	0.956	1.306	0.938
LAB 8	1.090	4.348	0.940
LAB 9	0.992	4.758	0.890
LAB 10	1.032	4.934	1.043

Major Constituents as Oxides

Average of 10 samples: 4-acid, ICPMS (Total Digestion)

Raw Data:	Al%	Ca%	Fe%	K%	Mg%	Na%	P%
ICP/MS Data (n=10):	12.55	10.25	3.08	0.06	3.51	1.15	0
Conversion Factor:	1.8899	1.3992	1.4297	1.2046	1.6579	1.348	2.2916
	Al ₂ O ₃	CaO	Fe ₂ O ₃	K ₂ O	MgO	Na ₂ O	P ₂ O ₅
% Oxide:	23.72	14.34	4.40	0.07	5.82	1.55	0.00

Raw Data:	S%	Ti%	Si%
ICP/MS Data (n=5):	0	0.05	-
Conversion Factor:	2.4953	1.6681	2.1392
	SO ₃	TiO ₂	SiO ₂
% Oxide:	0.00	0.08	50.011369

Participating Laboratories:

Acme Assay Labs
 Activation Labs, Ancaster
 ALS, Vancouver
 Florin Assay Labs, Reno
 Genalysis, Perth

Inspectorate, Vancouver
 Inspectorate, Sparks
 Labtium OY, Finland
 Ultratrace
 Eco-Tech, Stewart