Shea Clark Smith / MEG Labs, P.O. Box 18325, Reno, Nevada, USA 82
www.SheaClarkSmith.com Tel: 775-849-2235 Email: SheaClarkSmith@aol.com

AVAILABLE in 50 gram Kraft Envelopes with removable sticky label
Sold with Certificates of Assay for Ni, Zn, V, Co (n = 40, 8 Different Laboratories)
Cost: $6.75 per envelope

MEG-GB-2: (updated: 01-MAY-17)

NICKEL (%)

SAMPLES AVG =2.56	MAX = 2.79
LABS AVG = 2.56	MIN = 2.21
MEAN + 10% = 2.82	STDEV = 0.098
MEAN - 10% = 2.30	%RSD = 3.8

95% Confidence = 2.36 - 2.75

ZINC (%)

SAMPLES AVG = 4.52	MAX = 5.32
LABS AVG = 4.52	MIN = 4.14
MEAN + 10% = 4.97	STDEV = 0.208
MEAN - 10% = 4.07	%RSD = 4.6

95% Confidence = 4.10 - 4.93

VANADIUM (ppm)

SAMPLES AVG = 5188	MAX = 6345
LABS AVG = 5216	MIN = 4723
MEAN + 10% = 5738	STDEV = 203
MEAN - 10% = 4694	%RSD = 3.9

95% Confidence = 4810 - 5623

COBALT (ppm)

SAMPLES AVG =2250	MAX = 2670
LABS AVG = 2254	MIN =2010
MEAN + 10% = 2479	STDEV = 180
MEAN - 10% = 2029	%RSD = 8.0

95% Confidence = 1894 - 2615

Other Data: Average of 40 samples

Ag	Ca	Cu	Fe	Mn	Mo	P	Pb	Sr
ppm	%	ppm	%	%	ppm	ppm	ppm	ppm
10	2.2	1550	1.3	>10	2000	2400	35	1000

Source Rock = Gibellini Black Shale

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MEG-GB-5: (updated: 01-MAY-17)

NICKEL (ppm)

SAMPLES AVG = 1186	MAX = 1397
LABS AVG = 1184	MIN = 1030
MEAN + 10% = 1302	STDEV = 91
MEAN - 10% = 1066	%RSD = 7.7

95% Confidence = 1002 - 1365

ZINC (ppm)

SAMPLES AVG = 4913	MAX = 5635
LABS AVG = 4928	MIN = 3852
MEAN + 10% = 5421	STDEV = 491
MEAN - 10% = 4435	%RSD = 10.0

95% Confidence = 3947 - 5909

VANADIUM (ppm)

SAMPLES AVG = 320	MAX = 353
LABS AVG = 320	MIN = 297
MEAN + 10% = 352	STDEV = 13
MEAN - 10% = 288	%RSD = 4.2

95% Confidence = 293 - 347

COBALT (ppm)

SAMPLES AVG =70	MAX = 79
LABS AVG = 70	MIN =59
MEAN + 10% = 77	STDEV = 3.8
MEAN - 10% = 63	%RSD = 5.4

95% Confidence = 62 - 77

Other Data: Average of 40 samples

Ag	Ca	Cu	Fe	Mn	Mo	P	Pb	Sr
ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm
1.1	19	60	0.6	6000	35	880	10	100

Source Rock = Gibellini Black Shale

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MEG-GB-4: (updated: 01-MAY-17)

NICKEL (ppm)

SAMPLES AVG =386	MAX = 427
LABS AVG = 386	MIN = 350
MEAN + 10% = 425	STDEV = 13
MEAN - 10% = 347	%RSD = 3.3

95% Confidence = 360 - 411

ZINC (ppm)

SAMPLES AVG = 708	MAX = 798
LABS AVG = 708	MIN = 631
MEAN + 10% = 779	STDEV = 39
MEAN - 10% = 637	%RSD = 5.5

95% Confidence = 629 - 786

VANADIUM (ppm)

SAMPLES AVG = 71	MAX = 86
LABS AVG = 71	MIN = 57
MEAN + 10% = 78	STDEV = 7.3
MEAN - 10% = 64	%RSD = 10.2

95% Confidence = 56 - 85

COBALT (ppm)

SAMPLES AVG =31	MAX = 35
LABS AVG = 31	MIN =29
MEAN + 10% = 34	STDEV = 1.6
MEAN - 10% = 28	%RSD = 5.1

95% Confidence = 28 - 34

Other Data: Average of 40 samples

Ag	Ca	Cu	Fe	Mn	Mo	P	Pb	Sr
ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm
0.5	0.05	25	0.08	4000	25	50	1.1	15

Source Rock = Gibellini Black Shale

Preparation Methods

Mineralized source rock is dried, crushed, blended, and reduced to powder using either (or both) ring & puck pulverizers and ceramic ball mill. Product from the mill is sieved through an 80 mesh (177um) screen. The -80 mesh product is tested for particle size distribution, with an acceptable criterion of 96% pass 200 mesh. If the product is known to contain metal sulfides, futher blending is done with a rotary splitter to assure homogenous particle distribution. The product is immediately packaged into tintop envelopes of 50 grams to reduce and isolate gravity separation and redistribution that may occur in bulk packaging. To each envelope is attached a removable sticky label for the accuracy of assay submittal records.

Statistical Methods

Numerical parameters are determined and presented for each standard. The mean of all samples is stated as "Samples Avg". "Samples Avg" disregards between-lab bias and includes a measure of variance for the entire population comprised of individual samples. The mean of all labs is stated as "Labs Avg", which incorporates a measure of laboratory bias, yet reduces the affects of within-lab variance. The best estimate of the True Mean is considered to be the "Labs Avg", and from this mean are calculated Standard Deviation, Min, Max, %Relative Standard Deviation, and the 95%Confidence Limits of +/- 2 standard deviations.

5%RSD = Excellent for measurements of accuracy with high degree of certainty.
5%RSD - 10%RSD = Good for measurements of accuracy with moderate degree of certainty.
10%RSD - 15%RSD = Provisional for measurements of accuracy with low degree of certainty.

Users are encouraged to refine these initial statistical parameters by adding their own data .

Liability Statement

MEG Standards are intended for use as QAQC monitors for analytical submittals, and not for use in the calibration of instrumental methods. These geochemical reference materials and the statistics that charaterize them have been prepared with professional care and attention to detail. Shea Clark Smith / MEG, Inc. and Shea Clark Smith, MSc., P.G. accept no liability for any decisions or actions that have been taken following the use of these reference materials. Liability is limited to only the cost of the reference material.