GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Low Level Gold Reference Material Product Code

GLG912-2

Certified Control Values

Low Level Gold

Gold Grade	2.54 ppb
Standard Deviation	1.48 ppb
Confidence Interval	+/- 0.48 ppb

CRM Details

Control Statistic Details
Control statistics were produced from results accumulated in the October-2012 round robin. A total of 40 gold assays were used to certify this material.

Material Description
This material is described as a Milled Basalt.

Colour Designation (ISCC-NBS, SP440)
This material is light olive gray in colour.

Usage
This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.

Preparation and Packaging
All CRMs are dried in an oven for a minimum of 12 hours at 110°C. The dry material is then pulverised to better than 75 micron (nominal mean of 45 micron) using an air classifier. The material is then homogenised and stored in a sealed, stable container ready for final packaging.

Materials are statistically sampled from stores, then packaged into either heat sealed, air tight, plastic pulp packets or screw top sealed plastic containers ready for distribution. All packaging has been chosen to ensure minimal contamination from outside sources during shipment, use and storage.

Assay Testwork
All standards are tested thoroughly in the Geostats bi-annual laboratory survey. This involves assaying by multiple laboratories from around the world. Results are compiled into a comprehensive report detailing statistics for each standard. Assay distributions are checked and processed statistically, producing monitoring statistics for these standards. Materials are tested regularly to ensure stability and homogeneity.

Stability
This product remains stable in its original packaging, away from direct sunlight.

Material Safety
This product is not hazardous and non-toxic.

Neutron Activation Analysis Results (ppm, unless otherwise noted)	
Antimony	<0.2
Arsenic	0.5
Barium	250
Bromine	<0.5
Cadmium	<5
Caesium	<0.5
Calcium (%)	nr
Cerium	22
Chromium	183
Cobalt	39
Europium	1.7
Gold (ppb)	1
Hafnium	3.6
Iridium (ppb)	<10
Iron (%)	8.44
Lanthanum	10
Lutetium	0.5
Mercury	nr
Molybdenum	<5
Neodymium	nr
Nickel	35
Potassium (%)	nr
Rubidium	10
Samarium	5.2
Scandium	32.2
Selenium	<2
Silver	<2
Sodium (%)	2.05
Strontium	nr
Tantalum	0.5
Tellurium	<10
Terbium	1
Thorium	1.3
Tin	<200
Tungsten	<2
Uranium	<0.5
Ytterbium	3
Zinc	120
Zirconium	<500

Major Elements by Fusion / XRF (%)	
Fe	8.49
SiO_2	53.1
Al_2O_3	14.46
TiO_2	1.825
MnO	0.17
CaO	9.14
P	0.086
S	0.051
MgO	5.16
K_2O	0.43
Na_2O	2.785
LOI1000	0.34

Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.

'nr': Not Reported

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