GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Multi-Element Reference Material Product Code

GBMS304-4

Certified Control Values

Analyses

Element	Grade	Standard Deviation	No of Analyses	Confidence Interval
Au - FA (ppm)	5.67	0.31	174	+/- 0.05
Au - AR (ppm)	5.29	0.49	105	+/- 0.09
Silver (ppm)	3.4	0.9	159	+/- 0.1
Copper (ppm)	9786	378	187	+/- 54.2
Lead (ppm)	271	18	170	+/- 2.6
Zinc (ppm)	149	14	182	+/- 2
Nickel (ppm)	732	47	156	+/- 7.3
Arsenic (ppm)	535	48	161	+/- 7.4
Cobalt (ppm)	350	26	155	+/- 4
Sulphur (%)	6.27	0.26	114	+/- 0.05

CRM Details

Control Statistic Details
Control statsitics were produced from results accumulated in the :
April-2004 Geostats Pty Ltd Laboratory Round Robin Program.
105 laboratories (at least) tested this material for base metal content.

Source Material
Prior to homogenisation and testing, this material was sourced from Cu / Au sulphidic ore

Colour Designation
Medium gray

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

Preparation and Packaging
All standards are dried in an oven for a minimum of 12 hours at 110C. The dry material is then pulverised to better than 75 micron (nominal mean of 45 micron) using an Air Classifier. Thematerial 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 packagin 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 a minimum of 50 reputable laboratories selected from across the world using a variety of methods (including FA, AR, 3AD, 4AD and ICP, AAS and XRF). 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.

Geostats Pty Ltd A.C.N. 072 971 272 THE Common Seal OF

Neutron Activation Analysis Results (ppm)	
Antimony	0
Arsenic	550
Barium	-100
Bromine	2
Cadmium	nr
Cerium	223
Caesium	-1
Chromium	594
Cobalt	381
Europium	2
Gold ppb	5683
Hafnium	5
Iridium ppb	-20
Iron %	8
Lanthanum	118
Lutetium	1
Molybendum	-5
Nickel	nr
Rubidium	44
Samarium	14
Scandium	22
Selenium	-5
Sodium %	1
Tantalum	-1
Tellurium	-5
Terbium	nr
Thorium	10
Tin	nr
Tungsten	191
Uranium	-2
Ytterbium	4
Zinc	133
Zirconium	-500
Calcium%	8
Potassium %	0
Silver	-5
Mercury	nr
Neodymium	nr
Strontium	nr

Major Elements Fusion / XRF (%)	
Fe	nr
SiO2	nr
Al2O3	nr
TiO2	nr
MnO	nr
CaO	nr
P	nr
S	nr
MgO	nr
K2O	nr
Na2O	nr
LOI1000	nr

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