GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Multi-Element Reference Material Product Code

GBMS304-5

Certified Control Values

Analyses

Element	Grade	Standard Deviation	No of Analyses	Confidence Interval
Au - FA (ppm)	1.62	0.08	245	+/- 0.01
Au - AR (ppm)	1.59	0.10	133	+/- 0.02
Silver (ppm)	0.8	0.2	73	+/- 0.05
Copper (ppm)	2293	124	143	+/- 20.39
Lead (ppm)	65	8	121	+/- 1.37
Zinc (ppm)	13	5	107	+/- 0.94
Nickel (ppm)	21	4	108	+/- 0.75
Arsenic (ppm)	99	10	105	+/- 1.91
Cobalt (ppm)	68	7	115	+/- 1.36
Sulphur (%)	1.04	0.06	121	+/- 0.01

CRM Details

Control Statistic Details

Control statsitics were produced from results accumulated in the :

April-2004 Geostats Pty Ltd Laboratory Round Robin Program.

73 laboratories (at least) tested this material for base metal content.

Source Material

Prior to homogenisation and testing, this material was sourced from Low grade Cu / Au ore, minor sulphide ex Pilbara region

Colour Designation

Very light 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.

Neutron Activation Analysis Results (ppm)	
Antimony	1
Arsenic	97
Barium	-100
Bromine	2
Cadmium	nr
Cerium	46
Caesium	26
Chromium	101
Cobalt	69
Europium	-1
Gold ppb	1578
Hafnium	10
Iridium ppb	-20
Iron %	1
Lanthanum	26
Lutetium	0
Molybendum	-5
Nickel	nr
Rubidium	927
Samarium	3
Scandium	5
Selenium	-5
Sodium %	1
Tantalum	-1
Tellurium	-5
Terbium	nr
Thorium	3
Tin	nr
Tungsten	32
Uranium	-2
Ytterbium	1
Zinc	-100
Zirconium	-500
Calcium%	2
Potassium %	4
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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