

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Multi-Element Reference Material Product Code

GBMS911-3

Certified Control Values

Analyses

Element	Grade	Standard Deviation	No of Analyses	Confidence Interval
Au - FA (ppm)	1.33	0.12	139	+/- 0.02
Au - AR (ppm)	1.31	0.13	61	+/- 0.034
Silver (ppm)	1.7	0.4	80	+/- 0.1
Copper (ppm)	7652	370	91	+/- 77.5
Lead (ppm)	37	6	81	+/- 1.3
Zinc (ppm)	196	23	89	+/- 4.9
Nickel (ppm)	27	8	76	+/- 1.9
Arsenic (ppm)	13	2	57	+/- 0.7
Cobalt (ppm)	31	8	77	+/- 1.7
Sulphur (%)	0.99	0.05	68	+/- 0.012

CRM Details

Control Statistic Details

Control statistics were produced from results accumulated in the :
October-2011 Geostats Pty Ltd Laboratory Round Robin Program.
57 laboratories (at least) tested this material for base metal content.

Source Material

Prior to homogenisation and testing, this material was sourced from
Cu / Gold Sulphide 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.
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 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

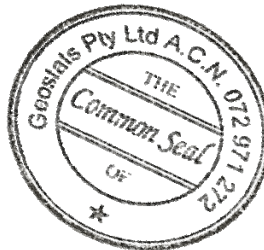
Analysis Results (ppm)

Antimony	1
Arsenic	14
Barium	350
Bromine	<0.5
Cadmium	<10
Cerium	38
Caesium	1
Chromium	100
Cobalt	41
Europium	2
Gold ppb	1330
Hafnium	8
Iridium ppb	<20
Iron %	7
Lanthanum	19
Lutetium	1
Molybendum	33
Nickel	38
Rubidium	75
Samarium	5
Scandium	23
Selenium	<5
Sodium %	2
Tantalum	1
Tellurium	<10
Terbium	1
Thorium	10
Tin	<200
Tungsten	<2
Uranium	6
Ytterbium	3
Zinc	230
Zirconium	<500
Calcium%	nr
Potassium %	nr
Silver	1
Mercury	nr
Neodymium	nr
Strontium	nr

Major Elements

Fusion / XRF (%)

Fe	7.02
SiO2	57.79
Al2O3	14.25
TiO2	1.365
MnO	0.11
CaO	6.3
P	0.072
S	1.01
MgO	3.44
K2O	1.71
Na2O	3.243
LOI1000	0.79



10A Marsh Close, O'Connor, Western Australia 6163

Phone : +61 8 9314 2566, Fax : +61 8 9314 3699

e-mail : pjh@geostats.com.au, srr@geostats.com.au

Website <http://www.geostats.com.au>

GBMS911-3

Geostats Pty Ltd, Certified Multi-Element Reference Material, Product Code :