

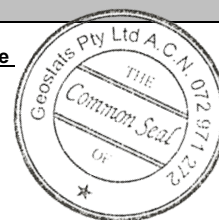
GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM914-2

Certified Control Values



GBM914-2

Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	99	7	77	+/- 1.7
Copper (ppm)	1824	90	81	+/- 20
Zinc (ppm)	626	31	79	+/- 7.1
Lead (ppm)	175	9	78	+/- 2
Arsenic (ppm)	9	3	58	+/- 0.7
Cobalt (ppm)	26	2	71	+/- 0.4
Silver (ppm)	5.9	0.7	68	nr

Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	90	6	49	+/- 1.6
Copper (ppm)	1850	89	77	+/- 20.3
Zinc (ppm)	616	28	62	+/- 7.1
Lead (ppm)	174	10	60	+/- 2.7
Arsenic (ppm)	8	2	46	+/- 0.6
Cobalt (ppm)	15	2	49	+/- 0.6
Silver (ppm)	6.3	0.9	69	+/- 0.23

CRM Details

Control Statistic Details	Neutron Activation Analysis Results (ppm, unless otherwise noted)	Major Elements by Fusion / XRF (%)	
Control statistics were produced from results accumulated in the October-2014 round robin. The number of results used to certify each analyte is shown in the table above.	Antimony 1.4	Fe	5.05
	Arsenic 8	SiO ₂	63.23
	Barium 350	Al ₂ O ₃	13.43
	Bromine 0.7	TiO ₂	1.051
	Cadmium <5	MnO	0.1
	Caesium 1.5	CaO	4.77
	Calcium (%) nr	P	0.056
	Cerium 31.4	S	0.261
	Chromium 80	MgO	3.02
	Cobalt 26	K ₂ O	2.44
	Europium 1.02	Na ₂ O	2.958
	Gold (ppb) 6580	LOI1000	0.69
	Hafnium 4	Neutron Activation	
	Iridium (ppb) <50	Analyses and Fusion /	
	Iron (%) 5	XRF Analyses are	
	Lanthanum 17.8	single results and are	
	Lutetium 0.3	indicative only. These	
	Mercury nr	are provided for matrix	
	Molybdenum 29.2	identification purposes.	
	Neodymium nr		
	Nickel 113	'nr': Not Reported	
	Potassium (%) nr		
	Rubidium 100		
	Samarium 4		
	Scandium 16.7		
	Selenium <10		
	Silver 7		
	Sodium (%) 2.13		
	Strontium nr		
	Tantalum 1.6		
	Tellurium nr		
	Terbium 0.9		
	Thorium 12.4		
	Tin nr		
	Tungsten 2.14		
	Uranium 7.7		
	Ytterbium <2		
	Zinc 680		
	Zirconium nr		
Material Description This material is described as a Low Sulphide ore ex Eastern Goldfields - This material also certified for partial digests.			
Colour Designation (ISCC-NBS, SP440) This material is light 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.			

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Geostats Pty Ltd, Certified Geochem Base Metal Reference Material, Product Code: