Common Seal

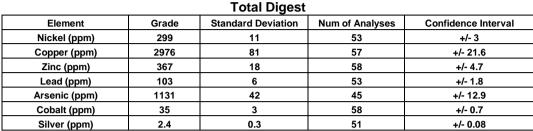
## **GEOSTATS PTY LTD**

**Mining Industry Consultants** Reference Material Manufacture and Sales

**Certified Geochem Base Metal Reference Material Product Code** 

## **GBM313-7**

**Certified Control Values** 



**Partial Digest** 

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Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval				
Nickel (ppm)	293	18	48	+/- 5.2				
Copper (ppm)	3019	129	65	+/- 32.2				
Zinc (ppm)	359	27	58	+/- 7				
Lead (ppm)	105	9	55	+/- 2.5				
Arsenic (ppm)	1155	60	57	+/- 16.2				
Cobalt (ppm)	36	5	48	+/- 1.5				
Silver (ppm)	2.4	0.2	55	+/- 0.06				

## **CRM Details**

Control Statistic Details	Neutron Activation Analysis Results (ppm,		Major Elements by Fusion / XRF (%)	
Control statistics were produced from results accumulated in the April-2013	unless otherwi	se noted)	)	
round robin. The number of results used to certify each analyte is shown in the	Antimony	15	Fe	9.18
table above.	Arsenic	1140	SiO <sub>2</sub>	52.29
	Barium	262	Al <sub>2</sub> O <sub>3</sub>	12.62
Material Description	Bromine	4.26	TiO <sub>2</sub>	0.68
This material is described as a Copper Gold ore.	Cadmium	<6.65	MnO	0.13
	Caesium	10.5	CaO	4.92
	Calcium (%)	nr	Р	0.05
Colour Designation (ISCC-NBS, SP440)	Cerium	35.4	S	1.89
This material is pale yellowish brown in colour.	Chromium	310	MgO	2
	Cobalt	35.8	K <sub>2</sub> O	2.06
<u>Usage</u>	Europium	< 0.679	Na <sub>2</sub> O	1.227
This product is for use in the mining industry as a reference material for	Gold (ppb)	3540	LOI1000	6.83
monitoring and testing the accuracy of laboratory assaying.	Hafnium	2.9		
	Iridium (ppb)	<11.4	Neutron Act	ivation
Preparation and Packaging	Iron (%)	8.99	Analyses and Fusion /	
All CRMs are dried in an oven for a minimum of 12 hours at 110°C. The dry	Lanthanum	13.5	XRF Analyses are	
material is then pulverised to better than 75 micron (nominal mean of 45 micron)	Lutetium	0.321	single results and are	
using an air classifier. The material is then homogenised and stored in a sealed,	Mercury	nr	· ·	
stable container ready for final packaging.	Molybdenum	8.13	indicative only. These	
	Neodymium	nr	are provided	for matrix
Materials are statistically sampled from stores, then packaged into either heat	Nickel	333	identificatio	n purposes
sealed, air tight, plastic pulp packets or screw top sealed plastic containers ready	Potassium (%)	nr		
for distribution. All packaging has been chosen to ensure minimal contamination	Rubidium	117	'nr': Not Reported	
from outside sources during shipment, use and storage.	Samarium	3.87		
	Scandium	17.9		
Assay Testwork	Selenium	<2.04		
All standards are tested thoroughly in the Geostats bi-annual laboratory survey.	Silver	2.4		
This involves assaying by multiple laboratories from around the world. Results are	Sodium (%)	0.909		
compiled into a comprehensive report detailing statistics for each standard.	Strontium	nr		
Assay distributions are checked and processed statistically, producing monitoring	Tantalum	0.651		
statistics for these standards. Materials are tested regularly to ensure stability and	Tellurium	<9.53		
homogeneity.	Terbium	0.486		
	Thorium	4.59		
<u>Stability</u>	Tin	<69.9		
This product remains stable in its original packaging, away from direct sunlight.	Tungsten	36.6		
	Uranium	1.76		
Material Safety	Ytterbium	1.44		
This product is not hazardous and non-toxic.	Zinc	410		
	Zirconium	<330	1	

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