Common Seal

GEOSTATS PTY LTD

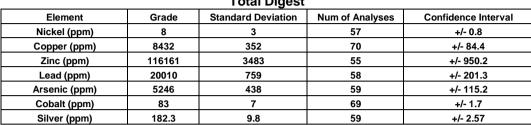
Mining Industry Consultants Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM314-1

Certified Control Values

Total Digest



Partial Digest

U							
nent	Grade	Standard Deviation	Num of Analyses	Confidence Interval			
(ppm)	7	3	48	+/- 0.9			
r (ppm)	8363	416	74	+/- 97.1			
ppm)	116416	3905	46	+/- 1172.5			
(ppm)	20119	805	49	+/- 233.7			
(ppm)	5520	540	62	+/- 138.4			
(ppm)	84	13	61	+/- 3.4			
(ppm)	179.5	6.8	61	+/- 1.76			
	nent (ppm) (ppm) (ppm) (ppm) (ppm) (ppm) (ppm) (ppm) (ppm)	(ppm) 7 r (ppm) 8363 (ppm) 116416 (ppm) 20119 c (ppm) 5520 c (ppm) 84	nent Grade Standard Deviation (ppm) 7 3 r (ppm) 8363 416 (ppm) 116416 3905 (ppm) 20119 805 c (ppm) 5520 540 c (ppm) 84 13	nent Grade Standard Deviation Num of Analyses (ppm) 7 3 48 r (ppm) 8363 416 74 (ppm) 116416 3905 46 (ppm) 20119 805 49 c (ppm) 5520 540 62 c (ppm) 84 13 61			

CRM Details

CRM Details				
	Neutron Activation		Major Elements by	
Control Statistic Details	Analysis Results (ppm,		Fusion / X	
Control statistics were produced from results accumulated in the April-2014	unless otherwi			(/0)
round robin. The number of results used to certify each analyte is shown in the	Antimony	272	Fe	22.42
table above.	Arsenic	5200	SiO ₂	16.06
	Barium	<370	Al ₂ O ₃	3.16
Material Description	Bromine	<5	TiO ₂	0.12
This material is described as a Cu / Pb / Zn sulphide, Sweden.	Cadmium	342	MnO	0.11
	Caesium	<3.5	CaO	3.83
	Calcium (%)	nr	Р	0.008
Colour Designation (ISCC-NBS, SP440)	Cerium	<83	S	29.4
This material is olive gray in colour.	Chromium	220	MgO	3.83
	Cobalt	89	K ₂ O	0.337
Usage	Europium	<6	Na ₂ O	3.81
This product is for use in the mining industry as a reference material for	Gold (ppb)	1980	LOI1000	22.1
monitoring and testing the accuracy of laboratory assaying.	Hafnium	<8		•
	Iridium (ppb)	<213	Neutron Act	ivation
Preparation and Packaging	Iron (%)	23	Analyses and Fusion /	
All CRMs are dried in an oven for a minimum of 12 hours at 110°C. The dry	Lanthanum	9	XRF Analyses are	
material is then pulverised to better than 75 micron (nominal mean of 45 micron)	Lutetium	< 0.9	single result	
using an air classifier. The material is then homogenised and stored in a sealed,	Mercury	nr	•	
stable container ready for final packaging.	Molybdenum	<10	indicative only. These	
	Neodymium	nr	are provided	for matrix
Materials are statistically sampled from stores, then packaged into either heat	Nickel	10	identification	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	<50	'nr': Not Reported	
from outside sources during shipment, use and storage.	Samarium	1.2		
	Scandium	<1.3		
Assay Testwork	Selenium	<52.7		
All standards are tested thoroughly in the Geostats bi-annual laboratory survey.	Silver	200		
This involves assaying by multiple laboratories from around the world. Results are	Sodium (%)	0.047		
compiled into a comprehensive report detailing statistics for each standard.	Strontium	nr		
Assay distributions are checked and processed statistically, producing monitoring	Tantalum	<2		
statistics for these standards. Materials are tested regularly to ensure stability and	Tellurium	nr		
homogeneity.	Terbium	<1.4		
	Thorium	<3.5		
<u>Stability</u>	Tin	nr		
This product remains stable in its original packaging, away from direct sunlight.	Tungsten	<3		
	Uranium	3.8		
Material Safety	Ytterbium	<7		
This product is not hazardous and non-toxic.	Zinc	112000		
	Zirconium	nr		

20 Hines Road, O'Connor, Western Australia 6163 Phone: +61 8 9314 2566, Fax: +61 8 9314 3699 $e\hbox{-mail: pjh} @geostats.com.au, srr@geostats.com.au\\$ Website http://www.geostats.com.au