

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

## Certified Gold Reference Material Product Code

# G313-1

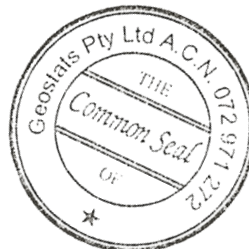
## Certified Control Values

### 50 gram Fire Assay

Gold Grade 1.00 ppm  
Standard Deviation 0.05 ppm  
Confidence Interval +/- 0.008 ppm

### Aqua Regia Digest

Gold Grade 1.01 ppm  
Standard Deviation 0.07 ppm  
Confidence Interval +/- 0.016 ppm



## CRM Details

<u>Control Statistic Details</u>	<u>Neutron Activation Analysis Results (ppm, unless otherwise noted)</u>	<u>Major Elements by Fusion / XRF (%)</u>	
<p>Control statistics were produced from results accumulated in the April-2013 round robin. A total of 157 fire assay results and 77 results from an aqua regia technique were used to certify this material.</p>	Antimony 0.096	Fe	4.63
<p><u>Material Description</u> This material is described as a Composite Mine Ore.</p>	Arsenic 0.417	SiO <sub>2</sub>	64.56
<p><u>Colour Designation (ISCC-NBS, SP440)</u> This material is light gray in colour.</p>	Barium 414	Al <sub>2</sub> O <sub>3</sub>	14.01
<p><u>Usage</u> This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.</p>	Bromine 0.88	TiO <sub>2</sub>	0.951
<p><u>Preparation and Packaging</u> 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.</p>	Cadmium <1.59	MnO	0.1
<p><u>Assay Testwork</u> 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.</p>	Caesium 1.8	CaO	4.58
<p><u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.</p>	Calcium (%) nr	P	0.05
<p><u>Material Safety</u> This product is not hazardous and non-toxic.</p>	Cerium 32.3	S	0.035
	Chromium 78	MgO	2.78
	Cobalt 15.2	K <sub>2</sub> O	2.47
	Europium 1.39	NazO	3.067
	Gold (ppb) 1070	LOI1000	0.61
	Hafnium 3.71		
	Iridium (ppb) <7.24	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
	Iron (%) 4.76	'nr': Not Reported	
	Lanthanum 19.3		
	Lutetium 0.366		
	Mercury nr		
	Molybdenum 12.4		
	Neodymium nr		
	Nickel 23.7		
	Potassium (%) nr		
	Rubidium 111		
	Samarium 4.4		
	Scandium 16.7		
	Selenium <2.09		
	Silver 2.39		
	Sodium (%) 2.3		
	Strontium nr		
	Tantalum 1.41		
	Tellurium <4.15		
	Terbium 0.944		
	Thorium 13.5		
	Tin <31.6		
	Tungsten <1.19		
	Uranium 9.38		
	Ytterbium 3.05		
	Zinc 47.9		
	Zirconium <161		

20 Hines Road, 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>

G313-1

Geostats Pty Ltd, Certified Gold Reference Material, Product Code: