

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

## Certified Gold Reference Material Product Code

# G302-10

## Certified Control Values

### 50 gram Fire Assay

Gold Grade 0.18 ppm  
Standard Deviation 0.02 ppm  
Confidence Interval +/- 0.003 ppm

### Aqua Regia Digest

Gold Grade 0.16 ppm  
Standard Deviation 0.03 ppm  
Confidence Interval +/- 0.005 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>	
Control statistics were produced from results accumulated in the April-2002 & April-2009 round robins. A total of 191 fire assay results and 87 results from an aqua regia technique were used to certify this material.	Antimony 0.57	Fe	nr
	Arsenic 17.8	SiO <sub>2</sub>	nr
	Barium 149	Al <sub>2</sub> O <sub>3</sub>	nr
	Bromine <1	TiO <sub>2</sub>	nr
	Cadmium <2	MnO	nr
	Caesium 1.605	CaO	nr
	Calcium (%) 6.54	P	nr
	Cerium 23	S	nr
	Chromium 192.5	MgO	nr
	Cobalt 36.15	K <sub>2</sub> O	nr
	Europium 1.745	Na <sub>2</sub> O	nr
	Gold (ppb) 163.5	LOI1000	nr
	Hafnium 4.7		
	Iridium (ppb) <20	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
	Iron (%) 8.405	'nr': Not Reported	
	Lanthanum 9.715		
	Lutetium 0.385		
	Mercury nr		
	Molybdenum 24.25		
	Neodymium nr		
	Nickel 42		
	Potassium (%) <0.2		
	Rubidium 55.8		
	Samarium 4.915		
	Scandium 30.35		
	Selenium <1		
	Silver <1		
	Sodium (%) 2.095		
	Strontium nr		
	Tantalum 0.5		
	Tellurium <5		
	Terbium 1.2		
	Thorium 1.33		
	Tin <50		
	Tungsten 1		
	Uranium 0.3		
	Ytterbium 2.755		
	Zinc 647		
	Zirconium 130		
<u>Material Description</u> This material is described as a Milled Waste Material - Basic rock.			
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is light brownish gray in colour.			
<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.			
<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.			
<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.			
<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.			
<u>Material Safety</u> This product is not hazardous and non-toxic.			

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>

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