

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

## Certified Gold Reference Material Product Code

# G913-1

## Certified Control Values

### 50 gram Fire Assay

Gold Grade 0.82 ppm  
Standard Deviation 0.03 ppm  
Confidence Interval +/- 0.005 ppm

### Aqua Regia Digest

Gold Grade 0.82 ppm  
Standard Deviation 0.04 ppm  
Confidence Interval +/- 0.01 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 October-2013 round robin. A total of 171 fire assay results and 76 results from an aqua regia technique were used to certify this material.	Antimony 0.966	Fe	5.58
	Arsenic 5.33	SiO <sub>2</sub>	59.66
	Barium 421	Al <sub>2</sub> O <sub>3</sub>	17.9
	Bromine 1.79	TiO <sub>2</sub>	0.846
	Cadmium <1.1	MnO	0.07
	Caesium 2.5	CaO	2.65
	Calcium (%) nr	P	0.032
	Cerium 43.1	S	0.04
	Chromium 68.7	MgO	1.52
	Cobalt 5.6	K <sub>2</sub> O	2.46
	Europium nr	Na <sub>2</sub> O	2.871
	Gold (ppb) 909	LOI1000	3.78
	Hafnium 5.92	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.  'nr': Not Reported	
	Iridium (ppb) <20		
	Iron (%) 5.41		
	Lanthanum 21.6		
	Lutetium 0.342		
	Mercury nr		
	Molybdenum 4.84		
	Neodymium nr		
	Nickel 14.1		
	Potassium (%) nr		
	Rubidium 129		
	Samarium 3.39		
	Scandium 9.58		
	Selenium <2.12		
	Silver 1.38		
	Sodium (%) 1.89		
	Strontium nr		
	Tantalum 2.01		
	Tellurium nr		
	Terbium 0.676		
	Thorium 36		
	Tin nr		
	Tungsten 0.859		
	Uranium 12.4		
	Ytterbium nr		
	Zinc 48.5		
	Zirconium nr		
<u>Material Description</u> This material is described as an Oxide mine ore.			
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is pale red 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.			

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