

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Gold Reference Material Product Code

G911-4

Certified Control Values

50 gram Fire Assay

Gold Grade 2.43 ppm
Standard Deviation 0.09 ppm
Confidence Interval +/- 0.015 ppm

Aqua Regia Digest

Gold Grade 2.45 ppm
Standard Deviation 0.11 ppm
Confidence Interval +/- 0.028 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 2011 round robin. A total of 138 fire assay results and 60 results from an aqua regia technique were used to certify this material.	Antimony 0.1	Fe	4.78
<u>Material Description</u> This material is described as a Run of mine ore.	Arsenic 0.2	SiO ₂	64.27
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is medium light gray in colour.	Barium 470	Al ₂ O ₃	13.94
<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.	Bromine 0.7	TiO ₂	1.057
<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.	Cadmium <10	MnO	0.09
<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.	Caesium 2.3	CaO	4.45
<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.	Calcium (%) nr	P	0.058
<u>Material Safety</u> This product is not hazardous and non-toxic.	Cerium 48	S	0.046
	Chromium 50	MgO	2.28
	Cobalt 20	K ₂ O	2.56
	Europium 1.3	Na ₂ O	3.447
	Gold (ppb) 2800	LOI1000	0.53
	Hafnium 8.4	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
	Iridium (ppb) <20	'nr': Not Reported	
	Iron (%) 4.86		
	Lanthanum 25.7		
	Lutetium 0.5		
	Mercury nr		
	Molybdenum 14		
	Neodymium nr		
	Nickel 25		
	Potassium (%) nr		
	Rubidium 126		
	Samarium 4.5		
	Scandium 16.7		
	Selenium <5		
	Silver 3		
	Sodium (%) 2.54		
	Strontium nr		
	Tantalum 1.5		
	Tellurium <10		
	Terbium 0.9		
	Thorium 17		
	Tin <200		
	Tungsten <2		
	Uranium 9.3		
	Ytterbium 3.2		
	Zinc 80		
	Zirconium <500		

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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