Major Elements by

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Gold Reference Material Product Code

G921-4

Certified Control Values

50 gram Fire Assay

Gold Grade 0.44 ppm Standard Deviation 0.02 ppm Confidence Interval +/- 0.003 ppm

Aqua Regia Digest

Gold Grade 0.43 ppm Standard Deviation 0.03 ppm Confidence Interval +/- 0.009 ppm



Neutron Activation

CRM Details

Control Statistic Details

Control statistics were produced from results accumulated in the October-2021 round robin. A total of 171 fire assay results and 57 results from an aqua regia technique were used to certify this material.

Material Description

This material is described as a Gold cut-off grade composite.

Colour Designation (ISCC-NBS, SP440)

This material is light 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.

Preparation and Packaging

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.

Assay Testwork

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.

Stability

This product remains stable in its original packaging, away from direct sunlight.

<u>Material Safety</u>

This product is not hazardous and non-toxic.

Analysis Results (ppm,		Fusion / XRF (%)		
unless otherwi	se noted)			
Antimony	<0.2	Fe	5.17	
Arsenic	<0.5	SiO ₂	62.31	
Barium	318	Al ₂ O ₃	14.18	
Bromine	<2	TiO ₂	1.07	
Cadmium	<10	MnO	0.11	
Caesium	2	CaO	5.71	
Calcium (%)	nr	Р	0.054	
Cerium	38	S	0.04	
Chromium	103	MgO	3.22	
Cobalt	22	K ₂ O	2.07	
Europium	1.3	Na ₂ O	3.32	
Gold (ppb)	421	LOI1000	0.36	
Hafnium	<5			
Iridium (ppb)	<50	Neutron Activation		
Iron (%)	5.4	Analyses an	alyses and Fusion /	
Lanthanum	20	XRF Analyses are		
Lutetium	0.4	single results and are		
Mercury	nr	J		
Molybdenum	<10	indicative only. These		
Neodymium	nr	are provided for matrix		
Nickel	29	identification purposes		
Potassium (%)	nr			
Rubidium	96	'nr': Not Rep	orted	
Samarium	4.6			
Scandium	18.9			
Selenium	<10			
Silver	<5			
Sodium (%)	2.44			
Strontium	nr			
Tantalum	2			
Tellurium	<20			
Terbium	1			
Thorium	12.7			
Tin	<200			
Tungsten	<2			
Uranium	7			
Ytterbium	2.8			
Zinc	<200			
Zirconium	~ 500	l		

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