# GEOSTATS PTY LTD

**Mining Industry Consultants**
**Reference Material Manufacture and Sales**

**Certified Gold Reference Material Product Code**

# G908-2

**Certified Control Values**

**50 gram Fire Assay**

| | |
|---|---|
| Gold Grade | 0.21 ppm |
| Standard Deviation | 0.01 ppm |
| Confidence Interval | +/- 0.002 ppm |

**Aqua Regia Digest**

| | |
|---|---|
| Gold Grade | 0.21 ppm |
| Standard Deviation | 0.02 ppm |
| Confidence Interval | +/- 0.005 ppm |

Geostats Pty Ltd A.C.N. 072 971 272 THE Common Seal OF

**CRM Details**

**Control Statistic Details**

Control statistics were produced from results accumulated in the October-2008 & April-2009 round robins. A total of 203 fire assay results and 75 results from an aqua regia technique were used to certify this material.

**Material Description**

This material is described as a Sub Ore-grade material from stripping.

**Colour Designation (ISCC-NBS, SP440)**

This material is light gray in colour.

**Usage**

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.

**Material Safety**

This product is not hazardous and non-toxic.

**Neutron Activation Analysis Results (ppm, unless otherwise noted)**

| | |
|---|---|
| Antimony | <0.1 |
| Arsenic | 0.7 |
| Barium | 395 |
| Bromine | 1.2 |
| Cadmium | <2 |
| Caesium | 2.6 |
| Calcium (%) | nr |
| Cerium | 41 |
| Chromium | 105 |
| Cobalt | 26.5 |
| Europium | 1.1 |
| Gold (ppb) | 228.5 |
| Hafnium | 4 |
| Iridium (ppb) | <20 |
| Iron (%) | 5.65 |
| Lanthanum | 22 |
| Lutetium | 0.4 |
| Mercury | nr |
| Molybdenum | 2.35 |
| Neodymium | nr |
| Nickel | 28 |
| Potassium (%) | nr |
| Rubidium | 110 |
| Samarium | 4.45 |
| Scandium | 22.05 |
| Selenium | <1 |
| Silver | <1 |
| Sodium (%) | 2.605 |
| Strontium | nr |
| Tantalum | 1.4 |
| Tellurium | <10 |
| Terbium | 0.8 |
| Thorium | 14.4 |
| Tin | <50 |
| Tungsten | <1 |
| Uranium | 6.95 |
| Ytterbium | 2.85 |
| Zinc | 98 |
| Zirconium | 190 |

**Major Elements by Fusion / XRF (%)**

| | |
|---|---|
| Fe | nr |
| $SiO_2$ | nr |
| $Al_2O_3$ | nr |
| $TiO_2$ | nr |
| MnO | nr |
| CaO | nr |
| P | nr |
| S | nr |
| MgO | nr |
| $K_2O$ | nr |
| $Na_2O$ | nr |
| LOI1000 | nr |

Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.

'nr': Not Reported

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