GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM903-8

Certified Control Values



Major Elements by

| Element | Grade | Standard Deviation | Num of Analyses | Confidence Interval | |
|---------------|-------|--------------------|-----------------|---------------------|--|
| Nickel (ppm) | 177 | 21 | 105 | +/- 4.2 | |
| Copper (ppm) | 550 | 37 | 124 | +/- 6.6 | |
| Zinc (ppm) | 102 | 19 | 108 | +/- 3.6 | |
| Lead (ppm) | 20 | 7 | 92 | +/- 1.5 | |
| Arsenic (ppm) | 1351 | 92 | 101 | +/- 18.2 | |
| Cobalt (ppm) | 52 | 6 | 103 | +/- 1.2 | |
| Silver (ppm) | 1.0 | 0.3 | 76 | +/- 0.1 | |

CRM Details

Neutron Activation

| Control Statistic Details | Analysis Results (ppm, | | Fusion / XRF (%) | |
|--|-------------------------|-------|--------------------------------|-------------|
| Control statistics were produced from results accumulated in the October-2003 & | unless otherwise noted) | | | |
| April-2006 round robins. The number of results used to certify each analyte is | Antimony | 18.25 | Fe | nr |
| shown in the table above. | Arsenic | 1340 | SiO ₂ | nr |
| | Barium | 178.5 | Al ₂ O ₃ | nr |
| Material Description | Bromine | <0.5 | TiO ₂ | nr |
| This material is described as a Gold Ore ex Murchison Region. | Cadmium | nr | MnO | nr |
| • | Caesium | 5.525 | CaO | nr |
| | Calcium (%) | 5.95 | Р | nr |
| Colour Designation (ISCC-NBS, SP440) | Cerium | 20.3 | S | nr |
| This material is pinkish gray in colour. | Chromium | 392.5 | MgO | nr |
| | Cobalt | 57.45 | K ₂ O | nr |
| Usage | Europium | 0.79 | Na ₂ O | nr |
| This product is for use in the mining industry as a reference material for | Gold (ppb) | 4060 | LOI1000 | nr |
| monitoring and testing the accuracy of laboratory assaying. | Hafnium | 1.52 | | |
| | Iridium (ppb) | <16 | Neutron Act | ivation |
| Preparation and Packaging | Iron (%) | 8.775 | Analyses ar | nd Fusion / |
| All CRMs are dried in an oven for a minimum of 12 hours at 110°C. The dry | Lanthanum | 9.1 | XRF Analyses are | |
| material is then pulverised to better than 75 micron (nominal mean of 45 micron) | Lutetium | 0.285 | single results and are | |
| using an air classifier. The material is then homogenised and stored in a sealed, | Mercury | nr | indicative only. These | |
| stable container ready for final packaging. | Molybdenum | <1 | are provided for matrix | |
| | Neodymium | nr | identification | า |
| Materials are statistically sampled from stores, then packaged into either heat | Nickel | 200 | purposes. | |
| sealed, air tight, plastic pulp packets or screw top sealed plastic containers ready | Potassium (%) | 0.62 | | |
| for distribution. All packaging has been chosen to ensure minimal contamination | Rubidium | 123 | 'nr': Not Rep | orted |
| from outside sources during shipment, use and storage. | Samarium | 2.64 | | |
| | Scandium | 33.35 | | |
| Assay Testwork | Selenium | <3 | | |
| All standards are tested thoroughly in the Geostats bi-annual laboratory survey. | Silver | 2 | | |
| This involves assaying by multiple laboratories from around the world. Results are | Sodium (%) | 1.155 | | |
| compiled into a comprehensive report detailing statistics for each standard. Assay | Strontium | nr | | |
| distributions are checked and processed statistically, producing monitoring | Tantalum | <0.5 | | |
| statistics for these standards. Materials are tested regularly to ensure stability and | Tellurium | <5 | | |
| homogeneity. | Terbium | <0.5 | | |
| | Thorium | 2.385 | | |
| <u>Stability</u> | Tin | <100 | | |
| This product remains stable in its original packaging, away from direct sunlight. | Tungsten | 48.25 | | |
| | Uranium | <0.5 | | |
| Material Safety | Ytterbium | 2.165 | | |
| This product is not hazardous and non-toxic. | Zinc | <100 | | |
| | Zirconium | <500 | | |

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