

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

## Certified Gold Reference Material Product Code

# G313-3

### Certified Control Values

#### 50 gram Fire Assay

Gold Grade 0.51 ppm  
Standard Deviation 0.03 ppm  
Confidence Interval +/- 0.005 ppm

#### Aqua Regia Digest

Gold Grade 0.49 ppm  
Standard Deviation 0.05 ppm  
Confidence Interval +/- 0.011 ppm



### CRM Details

Control Statistic Details	Neutron Activation Analysis Results (ppm, unless otherwise noted)	Major Elements by Fusion / XRF (%)	
Control statistics were produced from results accumulated in the April-2013 round robin. A total of 159 fire assay results and 73 results from an aqua regia technique were used to certify this material.	Antimony 7.71	Fe	5.5
	Arsenic 27.6	SiO <sub>2</sub>	58.68
	Barium 332	Al <sub>2</sub> O <sub>3</sub>	18.04
	Bromine 2.14	TiO <sub>2</sub>	0.811
	Cadmium 4.38	MnO	0.07
	Caesium 1.77	CaO	2.59
	Calcium (%) nr	P	0.031
	Cerium 35.4	S	0.267
	Chromium 73.2	MgO	1.52
	Cobalt 7.35	K <sub>2</sub> O	2.5
	Europium <0.621	Na <sub>2</sub> O	2.493
	Gold (ppb) 528	LOI1000	4.58
	Hafnium 6.02	Neutron Activation	
	Iridium (ppb) <7.98	Analyses and Fusion /	
	Iron (%) 5.88	XRF Analyses are	
	Lanthanum 18.8	single results and are	
	Lutetium 0.358	indicative only. These	
	Mercury nr	are provided for matrix	
	Molybdenum 15.4	identification purposes	
	Neodymium nr		
	Nickel 15.9	'nr': Not Reported	
	Potassium (%) nr		
	Rubidium 116		
	Samarium 3.3		
	Scandium 11.9		
	Selenium <2.34		
	Silver 5.05		
	Sodium (%) 1.96		
	Strontium nr		
	Tantalum 1.93		
	Tellurium <2.67		
	Terbium 0.649		
	Thorium 31.7		
	Tin <37.9		
	Tungsten <1.15		
	Uranium 11.4		
	Ytterbium 1.38		
	Zinc 1241		
	Zirconium 181		
<b>Material Description</b>			
This material is described as a Composite mine ore low copper.			
<b>Colour Designation (ISCC-NBS, SP440)</b>			
This material is pale red in colour.			
<b>Usage</b>			
This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.			
<b>Preparation and Packaging</b>			
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.			
<b>Assay Testwork</b>			
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.			
<b>Stability</b>			
This product remains stable in its original packaging, away from direct sunlight.			
<b>Material Safety</b>			
This product is not hazardous and non-toxic.			

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G313-3

Geostats Pty Ltd, Certified Gold Reference Material, Product Code:

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

Certified Gold Reference Material Product Code

## G913-4

Certified Control Values

### 50 gram Fire Assay

Gold Grade 1.37 ppm  
Standard Deviation 0.04 ppm  
Confidence Interval +/- 0.007 ppm

### Aqua Regia Digest

Gold Grade 1.35 ppm  
Standard Deviation 0.08 ppm  
Confidence Interval +/- 0.017 ppm



### CRM Details

#### Control Statistic Details

Control statistics were produced from results accumulated in the October-2013 round robin. A total of 171 fire assay results and 80 results from an aqua regia technique were used to certify this material.

#### Material Description

This material is described as an Oxide ore.

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

This material is pale reddish brown 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	1.31
Arsenic	10
Barium	215
Bromine	2.83
Cadmium	<0.979
Caesium	1.22
Calcium (%)	nr
Cerium	32.2
Chromium	94.6
Cobalt	7.31
Europium	nr
Gold (ppb)	1460
Hafnium	8.45
Iridium (ppb)	<20
Iron (%)	9.36
Lanthanum	13.2
Lutetium	0.389
Mercury	nr
Molybdenum	21.4
Neodymium	nr
Nickel	13.3
Potassium (%)	nr
Rubidium	77.2
Samarium	2.67
Scandium	14.8
Selenium	<1.97
Silver	4.38
Sodium (%)	1.36
Strontium	nr
Tantalum	1.92
Tellurium	nr
Terbium	0.58
Thorium	42.1
Tin	nr
Tungsten	1.37
Uranium	7.94
Ytterbium	nr
Zinc	42.6
Zirconium	nr

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

Fe	9.09
SiO <sub>2</sub>	47.48
Al <sub>2</sub> O <sub>3</sub>	22.31
TiO <sub>2</sub>	1.211
MnO	0.07
CaO	2.56
P	0.036
S	0.046
MgO	1.7
K <sub>2</sub> O	1.68
Na <sub>2</sub> O	1.794
LOI1000	7.83

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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G913-4

Geostats Pty Ltd, Certified Gold Reference Material, Product Code:

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

## Certified Gold Reference Material Product Code

# G913-9

## Certified Control Values

### 50 gram Fire Assay

Gold Grade 4.91 ppm  
Standard Deviation 0.17 ppm  
Confidence Interval +/- 0.025 ppm

### Aqua Regia Digest

Gold Grade 4.88 ppm  
Standard Deviation 0.21 ppm  
Confidence Interval +/- 0.048 ppm



## CRM Details

### Control Statistic Details

Control statistics were produced from results accumulated in the October-2013 round robin. A total of 180 fire assay results and 78 results from an aqua regia technique were used to certify this material.

### Material Description

This material is described as a Low sulphide mine ore.

### 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	0.053
Arsenic	<0.165
Barium	448
Bromine	0.68
Cadmium	<1.17
Caesium	2.53
Calcium (%)	nr
Cerium	39.1
Chromium	84.2
Cobalt	15.8
Europium	nr
Gold (ppb)	5460
Hafnium	3.65
Iridium (ppb)	<20
Iron (%)	5
Lanthanum	24.1
Lutetium	0.471
Mercury	nr
Molybdenum	10.3
Neodymium	nr
Nickel	17.8
Potassium (%)	nr
Rubidium	116
Samarium	4.22
Scandium	17.6
Selenium	<2.72
Silver	4.52
Sodium (%)	2.52
Strontium	nr
Tantalum	1.32
Tellurium	nr
Terbium	0.902
Thorium	16.3
Tin	nr
Tungsten	0.916
Uranium	8.22
Ytterbium	nr
Zinc	78
Zirconium	nr

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

Fe	4.55
SiO <sub>2</sub>	64.16
Al <sub>2</sub> O <sub>3</sub>	13.92
TiO <sub>2</sub>	0.953
MnO	0.1
CaO	4.74
P	0.048
S	0.04
MgO	2.76
K <sub>2</sub> O	2.32
Na <sub>2</sub> O	3.33
LOI1000	0.52

Neutron Activation  
Analyses and Fusion /  
XRF Analyses are  
single results and are  
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identification purposes.

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G913-9

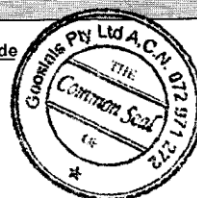
Geostats Pty Ltd, Certified Gold Reference Material, Product Code:

**GEOSTATS PTY LTD**  
Mining Industry Consultants  
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

**GBM313-4**

Certified Control Values



**Total Digest**

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	250	10	49	+/- 2.8
Copper (ppm)	342	9	55	+/- 2.5
Zinc (ppm)	337	18	58	+/- 4.8
Lead (ppm)	110	8	57	+/- 2.2
Arsenic (ppm)	385	13	42	+/- 4.1
Cobalt (ppm)	33	3	55	+/- 0.8
Silver (ppm)	2.7	0.2	48	+/- 0.07

**Partial Digest**

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	230	17	49	+/- 5.1
Copper (ppm)	344	16	64	+/- 4
Zinc (ppm)	317	22	60	+/- 5.7
Lead (ppm)	109	7	53	+/- 2
Arsenic (ppm)	386	22	52	+/- 6.1
Cobalt (ppm)	27	4	49	+/- 1.2
Silver (ppm)	2.7	0.2	56	+/- 0.06

CRM Details

**Control Statistic Details**

Control statistics were produced from results accumulated in the April-2013 round robin. The number of results used to certify each analyte is shown in the table above.

**Material Description**

This material is described as a Composite ores - This material also certified for partial digests.

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

This material is grayish orange pink 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)**

Neutron Activation Analysis Results (ppm, unless otherwise noted)	Major Elements by Fusion / XRF (%)
Antimony 101	Fe 7.04
Arsenic 403	SiO <sub>2</sub> 59.33
Barium 266	Al <sub>2</sub> O <sub>3</sub> 12.09
Bromine 2.81	TiO <sub>2</sub> 0.946
Cadmium <7.95	MnO 0.16
Caesium 3.04	CaO 4.31
Calcium (%) nr	P 0.051
Cerium 24.7	S 0.77
Chromium 1100	MgO 4.03
Cobalt 33	K <sub>2</sub> O 1.67
Europium 1.37	Na <sub>2</sub> O 1.937
Gold (ppb) 2490	LOI1000 3.77
Hafnium 2.36	
Iridium (ppb) <14.5	Neutron Activation
Iron (%) 7.33	Analyses and Fusion /
Lanthanum 11.4	XRF Analyses are
Lutetium 0.349	single results and are
Mercury nr	indicative only. These
Molybdenum 2.99	are provided for matrix
Neodymium nr	identification purposes.
Nickel 284	
Potassium (%) nr	'nr'. Not Reported
Rubidium 71.6	
Samarium 3.55	
Scandium 17.9	
Selenium <4.52	
Silver 2.3	
Sodium (%) 1.53	
Strontium nr	
Tantalum 3.1	
Tellurium <6.87	
Terbium 0.686	
Thorium 6.09	
Tin <96.8	
Tungsten 9.7	
Uranium 3.7	
Ytterbium 1.67	
Zinc 400	
Zirconium <189	

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**GBM313-4**

Geostats Pty Ltd, Certified Geochem Base Metal Reference Material, Product Code:

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

## GBM313-7

Certified Control Values



### Total Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	299	11	53	+/- 3
Copper (ppm)	2976	81	57	+/- 21.6
Zinc (ppm)	367	18	58	+/- 4.7
Lead (ppm)	103	6	53	+/- 1.8
Arsenic (ppm)	1131	42	45	+/- 12.9
Cobalt (ppm)	35	3	58	+/- 0.7
Silver (ppm)	2.4	0.3	51	+/- 0.08

### Partial Digest

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	293	18	48	+/- 5.2
Copper (ppm)	3019	129	65	+/- 32.2
Zinc (ppm)	359	27	58	+/- 7
Lead (ppm)	105	9	55	+/- 2.5
Arsenic (ppm)	1155	60	57	+/- 16.2
Cobalt (ppm)	36	5	48	+/- 1.5
Silver (ppm)	2.4	0.2	55	+/- 0.06

### CRM Details

#### Control Statistic Details

Control statistics were produced from results accumulated in the April-2013 round robin. The number of results used to certify each analyte is shown in the table above.

#### Material Description

This material is described as a Copper Gold ore - This material also certified for partial digests.

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

This material is pale yellowish brown 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	15
Arsenic	1140
Barium	262
Bromine	4.26
Cadmium	<6.65
Caesium	10.5
Calcium (%)	nr
Cerium	35.4
Chromium	310
Cobalt	35.8
Europium	<0.679
Gold (ppb)	3540
Hafnium	2.9
Iridium (ppb)	<11.4
Iron (%)	8.99
Lanthanum	13.5
Lutetium	0.321
Mercury	nr
Molybdenum	8.13
Neodymium	nr
Nickel	333
Potassium (%)	nr
Rubidium	117
Samarium	3.87
Scandium	17.9
Selenium	<2.04
Silver	2.4
Sodium (%)	0.909
Strontium	nr
Tantalum	0.651
Tellurium	<9.53
Terbium	0.486
Thorium	4.59
Tin	<69.9
Tungsten	36.6
Uranium	1.76
Ytterbium	1.44
Zinc	410
Zirconium	<330

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

Fe	9.18
SiO <sub>2</sub>	52.29
Al <sub>2</sub> O <sub>3</sub>	12.62
TiO <sub>2</sub>	0.68
MnO	0.13
CaO	4.92
P	0.05
S	1.89
MgO	2
K <sub>2</sub> O	2.06
Na <sub>2</sub> O	1.227
LOI1000	6.83

Neutron Activation  
Analyses and Fusion /  
XRF Analyses are  
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'nr': Not Reported

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GBM313-7

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**GBM913-4**

Certified Control Values

**Total Digest**

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	104	7	65	+/- 1.7
Copper (ppm)	1556	43	69	+/- 10.3
Zinc (ppm)	282	14	66	+/- 3.4
Lead (ppm)	291	13	65	+/- 3.3
Arsenic (ppm)	255	12	54	+/- 3.4
Cobalt (ppm)	193	13	70	+/- 3
Silver (ppm)	2.0	0.2	49	+/- 0.05

**Partial Digest**

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	102	9	59	+/- 2.5
Copper (ppm)	1534	73	73	+/- 17.2
Zinc (ppm)	250	17	65	+/- 4.2
Lead (ppm)	195	24	57	+/- 6.3
Arsenic (ppm)	256	16	63	+/- 4
Cobalt (ppm)	192	15	58	+/- 4
Silver (ppm)	1.9	0.2	62	+/- 0.04

**CRM Details****Control Statistic Details**

Control statistics were produced from results accumulated in the October-2013 round robin. The number of results used to certify each analyte is shown in the table above.

**Material Description**

This material is described as a High sulphide epithermal deposit in Peru - This material also certified for partial digests

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

This material is medium 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	37.4
Arsenic	259
Barium	1140
Bromine	<0.412
Cadmium	<2.86
Caesium	0.226
Calcium (%)	nr
Cerium	<5.72
Chromium	20.5
Cobalt	195
Europium	nr
Gold (ppb)	7390
Hafnium	5.25
Iridium (ppb)	<20
Iron (%)	7.81
Lanthanum	2.55
Lutetium	0.203
Mercury	nr
Molybdenum	26
Neodymium	nr
Nickel	100
Potassium (%)	nr
Rubidium	<4.63
Samarium	0.363
Scandium	3.6
Selenium	4.3
Silver	1.2
Sodium (%)	0.026
Strontium	nr
Tantalum	0.603
Tellurium	nr
Terbium	<0.0968
Thorium	2.5
Tin	nr
Tungsten	4.68
Uranium	1.89
Ytterbium	nr
Zinc	270
Zirconium	nr

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

Fe	7.53
SiO <sub>2</sub>	78.11
Al <sub>2</sub> O <sub>3</sub>	1.12
TiO <sub>2</sub>	0.978
MnO	0.01
CaO	0.03
P	0.011
S	7.82
MgO	0.05
K <sub>2</sub> O	0.204
Na <sub>2</sub> O	0.04
LOI1000	8.31

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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