

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales  
10A Marsh Close, O'Connor  
WESTERN AUSTRALIA 6163  
Ph: (+618) 9314 2566, Fax: (+618) 9314 3699  
[www.geostats.com.au](http://www.geostats.com.au)

## *Certificate of Participation*

This is to certify that

*Zarazma Minerals Studies Company*

has participated in the October 2009  
Geostats Survey of International Laboratories

*S. Romero*  
Operations Manager

*P.J. Hayes*  
Managing Director

Geostats Laboratory Survey  
October 2009

Prepared for  
Zarazma Minerals Studies Company

Confidential

**THIS IS A CONFIDENTIAL DOCUMENT BETWEEN GEOSTATS PTY LTD, CLIENT MINING  
HOUSES AND CLIENT ANALYTICAL COMPANIES.  
THIS DOCUMENT SHOULD NOT BE CIRCULATED OUTSIDE THE COMPANY WHOSE  
NAME APPEARS ON THE COVER.**

To the reader,

This survey of laboratories undertaken by Geostats is performed as a service to both the Mining Industry and the Analytical Industry. It is envisaged that it can be used as a tool for the maintenance of high standards in both industries.

The report to the Mining Houses identifies most commercial laboratories and should be treated as confidential information. Some commercial facilities prefer to pay for the inclusion of their sites and these are not identified to the Mining Houses. This report should not be circulated outside of the Client Company or reproduced for the benefit of other mining groups.

It is not the intent of this survey to provide marketing tools for the analytical industry. A laboratory report is available which identifies only the laboratory or group requesting the report. This allows the laboratory to assess their performance in relation to the rest of the analytical industry. All the laboratories identified have taken advantage of this report and included it as part of their ongoing quality control procedures. Participation in these surveys is an indication of the laboratory's interest in quality and should be regarded as a positive sign regardless of the outcome.

Many thanks to both the laboratories and the Mining Houses for their ongoing support of this survey.

Peter Hayes  
Managing Director  
Geostats Pty Ltd  
13th November 2009

**Geostats Pty Ltd, O'Connor, Western Australia.**  
**Listing of Participating Laboratories for Round Robin - October 2009**

**Western Australia**

ACTLABS PER Actlabs Pacific Pty Ltd  
 ALSK KAL ALS Minerals - Kalgoorlie (Met)  
 ALSK PERTH ALS Minerals - Perth  
 AMD ADL Amdel Laboratory - Adelaide  
 AMD KAL Amdel Laboratory - Kalgoorlie  
 AMMTEC Ammtect Laboratory  
 AURUM BECK Aurum Laboratories Pty Ltd  
 GEN PER Genalysis Laboratory Services Pty Ltd  
 KALGOORLIE AL Kalassay Group (Kalgoorlie Assay Laboratory)  
 LABWEST LabWest  
 LEONORA AL Kalassay Group (Leonora/Laverton Assay Laboratory)  
 KAL PER Kalassay Group (Perth Assay Laboratory)  
 SGS KALG SGS Kalgoorlie  
 SGS NEWBURN SGS Newburn  
 SGS ORETEST SGS Orestest  
 SAR LAB Standard & Reference Laboratories  
 ULTRA Ultra Trace Pty Ltd

**New South Wales**

ALSK ORANGE ALS Minerals - Orange  
 SGS WYALONG SGS Wyalong

**Queensland**

ALSK BRIS ALS Minerals - Brisbane  
 ALSK TVL ALS Minerals - Townsville  
 AMD MT ISA Amdel Mt Isa  
 SGS TOWNSVILLE SGS Townsville

**Tasmania**

BURNIE RL Burnie Research Laboratory

**Argentina**

ALEX MENDOZA Alex Stewart Assayers Argentina SA

**Brazil**

SGS LF BELO HOR SGS Geosol Laboratórios Ltda

**Burkina Faso**

ALSK OUAGADOUGOU Abilab Burkina SARL  
 SGS OUAGADOUGOU SGS Laboratory

**Canada**

ACME VAN Acme Analytical Laboratories Ltd  
 ACTLABS CAN Activation Laboratories Ltd (Canada)  
 AGAT ONTARIO AGAT Laboratories  
 ALSK QUEBEC ALS Minerals (Val d'Or)  
 ALSK VAN ALS Minerals - Vancouver  
 BECQUEREL-NAA Bequerel Laboratories Inc  
 ECO TECH CAN Eco Tech Laboratory Limited  
 SGS LAKEFIELD SGS Lakefield (Ontario)  
 SGS TORONTO SGS Laboratories (Toronto)  
 TSL SASKATCHEWAN TSL Laboratories

**Chile**

ACME CHILE Acme Analytical Laboratories Chile SA  
 ALSK LASERENA ALS Minerals - Chile  
 VIGALAB CHILE Vigalab S.A.

**China**

ALSK CHINA ALS Minerals - Guangzhou (China)  
 ITS BEIJING Intertek Testing Services, Ltd, Shanghai - Beijing Branch

**Finland**

LABTIUM FIN Labtium Laboratories

**France**

FILAB CHENOVE Laboratories Filab

**Ghana**

SGS BIBIANI SGS Laboratory  
 SGS TARKWA SGS Laboratories (Tarkwa)

**India**

SHIVA INDIA Shiva Analyticals (India) Ltd

**Indonesia**

GEOSERVICES IND PT. Geoservices Ltd  
 ITS GOSOWONG Gosowong Gold Project Lab  
 ITS INDO Intertek Testing Services, Jakarta  
 SGS KALTIM SGS Indo Assay Laboratories  
 SUCOFINDO INDO Sucofindo Timika Laboratory

**Ireland**

OMAC Omac Laboratories - Ireland

**Kyrgyz Republic**

ALEX KYRGYZ Alex Stewart Assay and Environmental Laboratories Ltd

**Laos**

ALSK LAOS ALS Minerals Vientiane (Laos)

**Mali**

ALSK MALI Groupe de Laboratoire ALS Mali SARL  
 SGS KAYES SGS Laboratory

**Mongolia**

ACTLABS MONGOLIA Actlabs Asia LLC  
 SGS ULAAN SGS Ulaanbaatar  
 STEWART MONGOLIA Stewart Mongolia LLC

**New Zealand**

AMD NZ MACRAES Amdel Macraes Laboratory - New Zealand  
 AMD NZ REEFTON Amdel Reefton Laboratory - New Zealand  
 SGS NZ SGS New Zealand, Minerals Laboratory

**Peru**

ACTLABS LIMA Actlabs - Skyline Peru SAC  
 ALSK LIMA ALS Peru S.A.  
 CIMM PERU CIMM Peru SA  
 INSPECTORATE PERU Inspectorate Services Peru SAC  
 SGS LIMA SGS del Peru S.A.C.

**Philippines**

McPHAR McPhar Geoservices Inc

**Romania**

ALSK ROMANIA ALS Romania

**Russia**

ALSK CHITA ALS Minerals - Chita  
 STEWART MOSCOW Alex Stewart Geochemical Ltd

**Saudi Arabia**

ALAMRI JEDDAH Al Amri Laboratory

**South Africa**

AARL JOBURG Anglo Research, Crown Mines - AS  
 ALSK JOBURG ALS Minerals - Johannesburg  
 MINTEK SA Mintek Analytical Services Division  
 PERF PLR Performance Laboratories (PLR)  
 PERF PLW Performance Laboratories (PLW)  
 SCI SER Scientific Services Pty Ltd  
 SET POINT SA Set Point Laboratories  
 SGS JOBURG SGS South Africa Booyens

**Spain**

FUND ITMA SPAIN Fundacion Itma

**Sweden**

LAPLAB SWEDEN LapLab, Laponia Laboratories AB

**United States of America**

ALASKA AL Alaska Assay Laboratories  
 ALSK RENO ALS Minerals - Reno  
 AMERICAN American Assay Laboratories  
 FLORIN RENO Florin Analytical Services  
 INSPECTORATE NEV Gen. Mgr. Analytical Services  
 SKYLINE ARIZONA Skyline Assayers & Laboratories

**Venezuela**

TRIAD EL CALLAO Phoenix Corporacion C.A.  
 TRIAD LA CAMORRA Phoenix Corporacion C.A.

**Zimbabwe**

ANTECH Antech Laboratory

**Mine Laboratories**

AFRICAN COPPER African Copper Mining - Mowana Mine  
 ALUMBRERA ARG Minera Alumbrera Limitada  
 AG GHANA ASSA AngloGold Ashanti - Assay Lab  
 AG GHANA CHEM AngloGold Ashanti - Chemical Lab  
 AG GHANA ENVI AngloGold Ashanti - Environmental Lab  
 AVOCET IND PT. Avocet Bolaang Mongondow  
 BALD MOUNT Bald Mountain Mine Assay Lab  
 BHP OLYMPIC BHP Billiton  
 BULYANHULU TANZ Bulyanhulu Mine Assay Lab  
 BUZWAGI Pangea Minerals Ltd  
 CAMPBELL Goldcorp Inc.  
 CHATREE THAI Laboratory - Chatree Gold Mine  
 CHELOPECH MINE Chelopech Mine Laboratory  
 CHEM LAB XSTR Xstrata Chemical Laboratory  
 CORTEZ MINE Cortez JV Mine Assay Lab  
 COSMOS NI Cosmos Mine Laboratory  
 EH MINE XSTR Ernest Henry Mine Laboratory  
 EZANA ETHIOPIA Ezana Mining Development PLC  
 FLIN FLON MINE Flin Flon Mine Laboratory  
 GC GUATEMALA Marlin Mine  
 GEITA TANZ Geita Gold Mine Laboratory  
 GOLD FIELDS GHANA Gold Fields Ghana Ltd  
 GOLD SUNLIGHT MINE Golden Sunlight Mine Assay Lab  
 GOLDEN GROVE Oz Minerals Golden Grove  
 GOLDSTRIKE Barrick Analytical Laboratory  
 GRANITES Granites Gold Mine  
 GRANNYS Granny Smith Gold Mine Laboratory  
 HEMLO MINE Williams Operating Corporation  
 IRGIREDMET RUSSIA Analytical Centre, IRGIREDMET JSC  
 ITS MATARAM ITS Lab / PT Newmont Nusa Tenggara  
 KOZAGOLD TURKEY Koza Gold Mine Laboratory  
 KUMTOR KYRGYZ Kumtor Kyrgyz  
 LAGUNAS MINE MINERA BARRICK MISQUICHILCA - UNIDAD PIERINA  
 LIHIR Lihir Gold - Minesite Laboratory  
 MARIGOLD MINES Marigold Mining Company - Assay Lab  
 MNV RUSSIA MNV - Mnogovershinnoye  
 MUSSELWHITE Musselwhite Mine Laboratory  
 NEW AHAFO GHANA Ahafo Mine Site Laboratory  
 NEW GC Newmont Mining Corporation (GC) - Carlin Laboratory  
 NEW LONE Newmont - Lone Tree Mine  
 NEW MET SER Newmont Metallurgical Services  
 NEW PERU Minera Yanacocha SRL - Newmont Lab (Peru)  
 NEW TWIN CM Newmont - Twin Creek Mine  
 NIFTY CU OP Nifty Minesite Laboratory  
 NORTH MARA North Mara Minesite Laboratory  
 ONHYM MOROCCO ONHYM  
 OSBORNE MINE Osborne Mine Assay Lab  
 PENJOM MALAYSIA Penjom Gold Mine  
 PHU BIA LAOS Phu Bia Mining Limited  
 PIERINA MINE Minera Barrick Misquichilca S.A.  
 PLUTONIC MINE Plutonic Gold Mine Assay Lab  
 PORGERA Porgera Gold Mine Laboratory  
 ROUND MOUNT MINE Round Mountain Gold Assay Lab  
 SADIOLA MALI Sadiola Mine Site Laboratory  
 SEPON LAOS Lane Xang Minerals  
 SGS CHITA SGS Chita  
 SGS JUNDEE SGS Jundeed  
 SGS MALI GCEX Analabs West Africa  
 SGS MWANZA Mwanza Geochemical Laboratory  
 SGS SIGUIRI SGS Mineral Services (Guinee) SARL  
 TOMC RUSSIA TOMS-Irkutsk  
 TULAWAKA TANZ Tulawaka Mine Assay Lab  
 TUPRAG TURK Tuprag Kisladag Gold Mine  
 TURQ RIDGE MINE Turquoise Ridge JV Mine Assay Lab  
 VELADERO MINE Veladero Project Assay Lab  
 ZARAZMA Zarazma Minerals Studies Company

## REPORT ON LABORATORY SURVEY – October 2009

A round robin to measure the accuracy of gold, silver, sulphur and base metal analyses from 161 laboratories was conducted during October 2009. The results of this survey are a measure of the ability of a laboratory to accurately analyse a pre-prepared pulp.

The ability of a laboratory to crush, split and prepare the sample without contamination is not measured by this survey. Knowledge of sampling machinery and the ability to design efficient flow systems with in-built homogeneity checks is required in order to develop confidence in the sample preparation.

The reference samples submitted to the laboratories consisted of:

- 10 gold standards
- 5 low level gold standards
- 6 gold and silver on carbon standards
- 10 geochemical base metal standards
- 6 ore-grade base metal standards
- 10 sulphur standards

Companies operating more than one laboratory have received extra filler samples, which are not used in the calculations. The Geostats numbering system makes it extremely difficult for any cross collation of results from one laboratory to the next. This provides a level playing field for all laboratories, whether they are sole operators or members of a large laboratory group.

We use a double entry system to build an accurate database. Two individuals enter all the data and when complete these two files are cross-checked and the source data is consulted to rectify any errors. The mean values used for calculations in this study are checked visually by preparing histograms. Outliers are removed and the remaining population distributions are tested for normality. All outliers are checked back to the original assay report for a third and final time.

### GOLD SAMPLES

Three lots of gold samples were submitted to the laboratories, one lot for fire assay, one for aqua regia digest (or similar) and one for low-level (<200 ppb) gold. Becquerel Canada performed Neutron Activation Analysis on all samples, reporting a gold + 33 element analysis which has been included at the end of this report. Becquerel Canada can be contacted through Steven Simpson at [ssimpson@becquerellabs.com](mailto:ssimpson@becquerellabs.com)

### GOLD AND SILVER ON CARBON SAMPLES

Six gold and silver on carbon standards were included in this survey, both loaded and barren. The method of analysis for these samples was left up to the individual laboratories.

### GEOCHEM BASE METAL SAMPLES

The base metal samples were analysed for copper, lead, zinc, nickel, arsenic, silver and cobalt. The method of analysis for base metal samples was left to the discretion of the laboratory manager. Becquerel Canada performed Neutron Activation Analysis and some mine laboratories performed XRF analyses. Digest levels were read on ICP or AAS. Methods are listed in the results page for the respective analyte.

## **ORE GRADE BASE METAL SAMPLES**

Six ore-grade and concentrate samples are included in the survey. These are assayed primarily for copper, lead, zinc, nickel, silver and sulphur. Other elements are reported but not in sufficient numbers for inclusion in the report. These high-grade materials are analysed at the chemist's discretion but almost always using ore-grade techniques. Some use classical analyses while others use XRF or other methods. However, some of these products have, for example, high lead but low copper and the method for copper analysis may be inappropriate for low levels. Owing to this characteristic, only higher grade analyses are plotted in the related charts.

## **SULPHUR SAMPLES**

Ten sulphur and carbon standards were prepared for the survey. These ten new standards are a good mix of values with sulphur values up to 30% and carbon values up to 1.5%.

All the standards used in this survey are available for purchase.

## **RESULTS**

The results of the analyses are presented in three forms:

1. A table showing values as reported from the laboratories. These are presented in columns according to their respective sample identifiers, with each result's standardised Z value also displayed. Outliers are highlighted and assigned a Z value of 3.00 or -3.00. General statistics are listed at the top of each table.
2. Bar chart for each element showing the sum of absolute standardised values divided by the count of absolute standardised values.
3. Bar chart for the mean of standardised values.

## **EXAMINATION OF RESULTS - METHODOLOGY**

1. Double entry of all data and validation by cross-checking. Confirm any anomalous values.
2. Produce basic statistics on results, including:
  - a. count
  - b. mean
  - c. median
  - d. standard deviation
  - e. minimum
  - f. maximum
  - g. error (95% Confidence Interval)
  - h. percentage error of mean (error as a percentage of the calculated mean).
3. Produce summary statistics and assay sheet.
4. Run outlier macro to find obvious outlier values.
5. Generate 'Z' intervals for remaining data (from calculated mean).
6. Check that median and mean are similar to verify a normal distribution.
7. Standardise remaining values i.e. subtract the mean and divide by the standard deviation.

8. Add results from each laboratory in 'standardised values' calculations (positive and negative) and divide by count.
9. Produce 'Mean of Standardised Values' Bar Charts.
10. Add absolute values from each laboratory in 'standardised values' calculations.
11. Divide result by count of results to calculate average absolute standard value for laboratory performance on each element.
12. Produce 'Mean of Absolute Standardised Values' Bar Charts.

## **CHARTS**

The 'Mean of Standardised Values' charts (blue in reports) indicate any bias shown by laboratories on a particular element, but do not show any general error which might be plus and minus the mean. The 'Mean of Absolute Standardised Values' charts (pink in reports) indicate the general error but no bias.

# **INTERPRETATION OF RESULTS**

## **SUMMARY STATISTICS AND ASSAY TABLES**

These tables are self-explanatory. The row titled 'error' refers to the margin of error expected at 95% confidence. That is, the standard normal probability or 'Z' statistic representing 95% (1.96) is multiplied by the standard deviation and the result is divided by the square root of the population. We can be 95% confident that the true mean lies between mean minus error and mean plus error. The row titled '% error in mean' is simply this margin of error expressed as a percentage of the calculated mean. Outliers are highlighted and not used for calculations at the top of the tables.

## **STANDARDISED VALUES**

These numbers are generated using the following formula. Reported value minus the mean, result of this divided by the standard deviation. This creates a new distribution with mean '0' and standard deviation '1'. Positive and negative numbers result from this calculation depending on whether the reported value is above or below the mean. Laboratories reporting outliers are manually assigned 3.00 or -3.00 as these results have been removed from automatic calculation. The higher the absolute number reported, the further the reported assay is from the calculated mean.

## **MEAN OF ABSOLUTE STANDARDISED VALUES (RED CHARTS)**

The bar representing each laboratory is the mean of the sum of the absolute standardised values reported on all assays of the element in question. That is, the absolute sum of the rows in the Standardised Values Table divided by the number of assays. These charts give a visual representation to the general error shown by the particular laboratories. These charts do not show bias.

## **MEAN OF STANDARDISED VALUES (BLUE CHARTS)**

These charts show the mean of standardised values with negative values included. A direction of error or bias can be interpreted from laboratories showing high values, negative or positive.

## BRIEFLY

General error is indicated in absolute column charts.

Bias is indicated in negative/positive column charts.

The column charts show indications of error or direction of error - check the real data in the tables before coming to any decision as to the significance of this error. Also pay attention to the grade of the standard materials with regard to the laboratory level of detection. Some laboratories may report outliers due to the limitations of their methodology.

## LEGEND FOR METHODS & READINGS

### METHODS

### READINGS

1A	1 Acid Digest	AAS	Atomic Absorption Spectroscopy
3A	3 Acid Digest	GRAV	Gravimetric
4A	4 Acid Digest	ICP	Inductively Coupled Plasma - Unspecified
AD	Acid Digest	ICP-ES	ICP - Emission Spectroscopy
AR	Aqua Regia	ICP-MS	ICP - Mass Spectroscopy
CLAS	Classical Method	IR	Infrared
CSA	Carbon and Sulphur Analyser	XRF	X-Ray Fluorescence
CYAN	Cyanide Soluble		
DIBK	DIBK Extraction		
DIFF	Difference Method		
FA	Fire Assay		
FUS	Fusion		
GF	Graphite Furnace		
LW	Leachwell		
MAD	Multi-Acid Digest		
NAA	Neutron Activation Analysis		
PP	Pressed Powder		
PR	Pre-Roast		
Red Pb	Red Lead		



# CONTENTS

## RESULTS OF ANALYSES PRESENTED AS TABLES AND PLOTS

ANALYSIS	PAGE	DESCRIPTION
FIRE ASSAY	1	Summary statistics, Assays, Standardised Values
	2	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
AQUA REGIA DIGEST	3	Summary statistics, Assays, Standardised Values
	4	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
LOW GRADE GOLD ANALYSIS	5	Summary statistics, Assays, Standardised Values
	6	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
GOLD ON CARBON ANALYSIS	7	Summary statistics, Assays, Standardised Values
	8	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
SILVER ON CARBON ANALYSIS	9	Summary statistics, Assays, Standardised Values
	10	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
SILVER ANALYSIS	11	Summary statistics, Assays, Standardised Values
	12	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
COPPER ANALYSIS (Geochem)	13	Summary statistics, Assays, Standardised Values
	14	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
LEAD ANALYSIS (Geochem)	15	Summary statistics, Assays, Standardised Values
	16	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
ZINC ANALYSIS (Geochem)	17	Summary statistics, Assays, Standardised Values
	18	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
NICKEL ANALYSIS (Geochem)	19	Summary statistics, Assays, Standardised Values
	20	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
ARSENIC ANALYSIS	21	Summary statistics, Assays, Standardised Values
	22	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
COBALT ANALYSIS	23	Summary statistics, Assays, Standardised Values
	24	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
COPPER ANALYSIS (Ore Grade)	25	Summary statistics, Assays, Standardised Values
	26	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
LEAD ANALYSIS (Ore Grade)	27	Summary statistics, Assays, Standardised Values
	28	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
ZINC ANALYSIS (Ore Grade)	29	Summary statistics, Assays, Standardised Values
	30	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
NICKEL ANALYSIS (Ore Grade)	31	Summary statistics, Assays, Standardised Values
	32	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
SILVER ANALYSIS (Ore Grade)	33	Summary statistics, Assays, Standardised Values
	34	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
SULPHUR ANALYSIS (Ore Grade)	35	Summary statistics, Assays, Standardised Values
	36	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
SULPHUR ANALYSIS	37	Summary statistics, Assays, Standardised Values
	38	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
CARBON ANALYSIS	39	Summary statistics, Assays, Standardised Values
	40	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
BECQUEREL ANALYSIS	41	Becquerel Gold + 33 element analysis (Gold, Base Metals)

FA50 Gold Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - October 2009

Standard Reference	G909-1	G909-2	G909-3	G909-4	G909-5	G909-6	G909-7	G909-8	G909-9	G909-10		
MEAN (ppm)	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	0.39	0.52
STDEV (ppm)	0.06	0.08	0.07	0.30	0.10	0.03	0.03	1.39	0.04	0.047		
95% CI (ppm)	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01		
95% CI (%)	0.96%	0.77%	0.63%	0.69%	0.70%	0.99%	1.08%	0.70%	1.84%	1.58%		
MIN (ppm)	0.86	1.74	12.09	6.90	2.33	0.86	0.42	30.59	0.30	0.41		
MEDIAN (ppm)	1.02	1.95	13.15	7.52	2.63	0.86	0.49	34.28	0.39	0.51		
MAX (ppm)	1.18	2.14	14.44	8.38	3.00	1.06	0.58	37.86	0.46	0.63		
IQR (ppm)	0.05	0.09	0.59	0.31	0.12	0.03	0.04	1.58	0.05	0.06		
CPUNT	135	129	124	128	126	132	130	132	130	130		

Standard Reference	G909-1	G909-2	G909-3	G909-4	G909-5	G909-6	G909-7	G909-8	G909-9	G909-10	Method	Reading										
LAB REFERENCE	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score										
ZARAZMA	1.02	-0.07	1.94	-0.03	12.69	-1.00	7.46	-0.22	2.52	-1.02	0.52	-1.46	0.45	-1.44	33.06	-0.81	0.35	-1.01	0.48	-0.78	FA	ICP-ES
COMLAB	1.02	-0.07	1.94	-0.03	12.69	-1.00	7.46	-0.22	2.52	-1.02	0.52	-1.46	0.45	-1.44	33.06	-0.81	0.35	-1.01	0.48	-0.78	FA	ICP-ES
COMLAB	0.91	-1.96	2.00	0.74	13.20	0.08	7.88	1.18	2.73	1.00	0.54	-0.94	0.45	-1.44	35.00	0.59	0.35	-0.99	0.49	-0.81	FA	AAS
COMLAB	1.02	-0.07	1.83	-1.49	13.92	1.61	7.79	0.89	2.69	0.60	0.56	-0.23	0.46	-1.12	33.00	-0.17	0.38	-0.29	8.00	3.00	FA	ICP-FA
COMLAB	1.02	-0.07	1.93	-0.16	13.20	0.08	8.46	3.00	2.68	0.51	0.57	-0.02	0.48	-0.37	33.80	-0.29	0.35	-1.06	0.50	-0.32	FA	AAS, GRAV
COMLAB	0.98	-0.76	1.85	-1.29	13.00	-0.24	7.78	-0.82	2.56	-0.63	0.64	-0.88	0.49	-0.47	33.00	-0.85	0.38	-0.34	0.50	-0.34	FA	AAS
COMLAB	1.06	0.62	1.98	0.50	12.49	-1.42	7.45	-0.25	2.71	0.80	0.61	1.30	0.52	0.82	32.63	-1.12	0.41	0.43	0.55	0.69	FA	AAS, GRAV
COMLAB	1.18	2.69	2.03	1.16	14.34	2.50	6.99	-1.79	2.40	-2.16	0.55	-0.54	0.48	-0.47	35.89	1.23	0.44	1.14	0.52	0.06	FA	ICP-ES
COMLAB	1.01	-0.24	1.95	0.04	13.25	0.19	7.47	-0.18	2.68	0.51	0.58	-0.23	0.49	-0.24	34.40	0.16	0.38	-0.20	0.49	-0.61	FA	AAS, GRAV
COMLAB	1.01	-0.24	1.85	-1.22	13.10	-0.13	7.10	-1.42	2.58	-0.44	0.56	-0.23	0.59	3.00	32.10	-1.50	0.40	0.19	0.60	1.75	FA	AAS
COMLAB	1.02	-0.07	1.98	1.82	13.70	1.14	7.53	0.02	2.65	0.22	0.58	0.38	0.50	0.18	34.60	0.30	0.38	-0.29	0.52	0.02	FA	AAS
COMLAB	1.01	-0.24	1.97	0.37	13.15	-0.02	7.30	0.45	2.58	0.44	0.54	-0.85	0.47	-1.12	33.00	0.42	0.33	0.57	1.13	0.57	FA	AAS
COMLAB	0.97	-0.93	1.94	-0.03	12.80	-0.77	7.53	0.02	2.82	1.84	0.56	-0.23	0.47	-0.79	34.00	-0.13	0.35	-1.01	0.55	0.69	FA	AAS
COMLAB	0.98	-0.69	1.96	0.24	13.15	-0.02	7.46	-0.22	2.61	-0.16	0.54	-0.78	0.49	-0.31	35.50	0.95	0.38	-0.34	0.53	0.34	FA	AAS, GRAV
COMLAB	1.00	-0.41	1.96	0.24	12.90	-0.55	7.50	-0.08	2.57	-0.54	0.52	-1.46	0.46	-1.12	33.80	-0.28	0.41	0.43	0.45	-1.42	FA	AAS
COMLAB	1.01	-0.24	2.06	1.56	14.00	1.78	7.61	0.29	2.61	-0.16	0.56	-0.23	0.49	-0.15	33.80	-0.28	0.39	-0.05	0.52	0.06	FA	AAS
COMLAB	1.03	0.11	1.98	0.50	14.05	1.89	8.16	2.13	2.70	0.70	0.57	0.07	0.50	0.18	35.90	1.24	0.35	-1.01	0.47	-0.99	FA	AAS
COMLAB	1.06	0.62	1.92	-0.29	13.75	1.25	7.95	1.43	2.60	-0.25	0.56	-0.23	0.50	0.18	38.70	3.00	0.36	-0.77	0.50	-0.36	FA	AAS, GRAV
COMLAB	1.02	-0.07	1.95	-0.16	12.75	-0.87	7.30	0.45	2.71	0.80	0.57	-0.02	0.50	0.18	34.70	-1.07	0.40	-0.77	0.47	-0.99	FA	AAS
COMLAB	1.02	-0.15	2.00	0.70	12.85	-0.66	nr	nr	2.72	0.89	0.56	-0.17	0.50	0.01	34.90	0.52	0.37	-0.63	0.52	-0.04	FA	AAS
COMLAB	1.02	-0.15	1.97	0.30	13.65	1.04	7.38	-0.48	2.67	0.41	0.56	-0.36	0.47	-0.76	34.60	0.30	0.34	-1.25	0.44	-1.58	FA	AAS
COMLAB	1.04	0.28	1.98	0.50	13.22	0.12	7.67	0.49	2.53	-0.92	0.58	0.38	0.47	-0.79	35.37	0.86	0.40	0.19	0.51	-0.15	FA	AAS
COMLAB	0.99	-0.58	1.93	-0.16	13.45	0.61	7.42	-0.35	2.76	1.27	0.62	1.60	0.55	1.79	33.30	-0.64	0.45	1.38	0.48	-0.78	FA	AAS
COMLAB	1.01	-0.24	1.93	0.37	13.15	0.02	7.30	0.45	2.63	0.03	0.58	0.03	0.49	0.06	34.00	0.39	0.38	0.14	0.50	-0.33	FA	AAS, GRAV
COMLAB	1.03	0.11	1.90	-0.56	13.70	1.14	7.72	0.66	2.79	1.56	0.58	0.38	0.51	0.50	35.10	0.66	0.40	0.19	0.59	1.54	FA	AAS
COMLAB	1.06	0.54	2.04	1.23	13.30	0.29	7.29	-0.80	2.84	0.99	0.61	1.30	0.51	0.50	33.55	-0.46	0.38	-0.41	0.51	-0.26	FA	AAS
COMLAB	1.02	0.00	2.00	0.71	11.55	-3.00	7.86	1.14	2.74	1.04	0.57	0.13	0.52	0.76	37.55	2.43	0.36	-0.75	0.54	0.52	FA	AAS
COMLAB	1.07	0.79	1.87	-0.96	12.78	-0.81	7.13	-1.32	2.56	-0.63	0.57	0.07	0.52	0.82	30.61	-2.57	0.41	0.43	0.54	0.48	FA, AR	AAS
COMLAB	1.12	1.66	1.97	0.37	13.20	0.08	7.14	-1.29	2.66	0.32	0.56	-0.33	0.48	-0.44	34.00	-0.13	0.38	-0.41	0.48	-0.78	FA	ICP-ES
COMLAB	1.01	-0.24	2.05	1.16	13.90	1.57	7.99	1.57	2.60	1.36	0.57	0.00	0.48	-0.50	35.20	2.43	0.38	-0.22	0.55	0.90	FA	ICP-ES
COMLAB	0.99	-0.58	1.95	0.10	13.60	0.93	7.69	0.25	2.75	1.18	0.58	0.38	0.48	-0.47	34.80	0.44	0.37	-0.43	0.53	0.37	FA	ICP-ES
COMLAB	1.00	-0.41	1.93	-0.16	12.09	-2.27	7.03	-1.68	2.59	-0.35	0.56	-0.23	0.48	-0.47	31.12	-2.21	0.34	-1.25	0.46	-1.20	FA	AAS
COMLAB	1.03	0.11	1.92	-0.29	14.74	3.00	7.42	-0.35	2.59	-0.35	0.55	-0.54	0.49	-0.15	35.82	1.18	0.36	-0.77	0.46	-1.20	FA	AAS
COMLAB	1.15	2.17	2.00	3.00	12.60	-1.19	7.70	0.59	2.98	3.00	0.50	-2.07	0.60	3.00	35.20	0.73	0.50	2.58	0.53	0.27	FA	AAS
COMLAB	0.99	-0.65	nr	nr	13.18	0.04	7.47	-0.19	2.54	-0.81	0.55	-0.51	0.46	-0.99	34.89	0.51	nr	nr	nr	nr	FA	AAS
COMLAB	1.04	0.28	1.98	0.50	13.72	1.19	8.10	1.93	2.63	0.03	0.59	0.68	0.51	0.50	35.06	0.63	0.44	1.14	0.51	-0.15	FA	AAS
COMLAB	1.06	0.62	1.95	-0.82	13.60	0.93	7.60	0.25	2.70	1.59	0.60	1.30	0.50	0.19	35.00	0.20	0.40	0.19	0.56	0.00	FA	AAS
COMLAB	1.03	0.11	1.99	0.83	13.33	0.36	7.56	1.02	2.63	0.03	0.57	0.07	0.50	0.18	33.62	-0.41	0.40	0.19	0.61	1.96	FA	AAS
COMLAB	1.13	1.86	2.07	1.67	12.72	-0.94	7.48	-0.15	2.33	-2.82	0.64	2.06	0.54	1.31	34.15	-0.02	0.37	-0.63	0.60	1.79	FA	AAS, GRAV
COMLAB	1.14	2.00	1.93	-0.16	13.11	-0.11	8.17	2.16	2.74	1.08	0.71	3.00	0.53	1.15	34.68	0.36	0.56	3.00	0.54	0.48	FA	GRAV
COMLAB	0.98	-0.76	1.92	-0.29	13.20	0.08	7.29	-0.78	2.57	-0.54	0.57	0.01	0.47	-0.70	34.30	0.08	0.38	-0.39	0.56	0.80	FA	AAS
COMLAB	0.94	-1.45	1.89	-0.69	13.90	-0.55	6.97	-1.86	2.63	0.03	0.53	-1.15	0.45	-1.44	35.00	0.59	0.39	-0.05	0.48	-0.78	FA	AAS
COMLAB	1.11	1.48	1.98	0.50	13.90	0.29	7.77	0.82	2.56	-0.63	0.60	0.90	0.51	0.60	34.20	0.01	0.40	0.19	0.78	0.54	FA	AAS
COMLAB	1.06	0.62	1.95	0.10	13.24	0.17	7.60	0.25	2.59	-0.35	0.54	-0.85	0.47	-0.79	35.44	0.91	0.41	0.43	0.48	-0.78	FA	ICP-MS
COMLAB	1.02	-0.07	1.95	0.10	13.50	0.72	7.34	-0.62	2.65	0.22	0.51	-1.76	0.69	3.00	36.20	1.45	0.36	-0.77	0.50	-0.36	FA	AAS
COMLAB	0.67	-3.00	1.41	-3.00	11.33	-3.00	5.74	-3.00	2.30	-3.00	0.46	-3.00	0.42	-2.41	29.70	-3.00	0.20	-3.00	0.29	-3.00	FA	AAS
COMLAB	1.15	2.17	1.98	0.50	1																	



## Aqua Regia Gold Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - October 2009

Standard Reference	G909-1	G909-2	G909-3	G909-4	G909-5	G909-6	G909-7	G909-8	G909-9	G909-10
MEAN (ppm)	0.98	1.90	12.99	7.38	2.56	0.56	0.48	33.64	0.39	0.53
STDEV (ppm)	0.06	0.13	0.53	0.39	0.12	0.04	0.04	1.52	0.04	0.067
95% CI (ppm)	0.02	0.03	0.15	0.10	0.03	0.01	0.01	0.41	0.01	0.02
95% CI (%)	1.67%	1.76%	1.14%	1.42%	1.29%	1.77%	2.24%	1.23%	2.71%	3.38%
MIN (ppm)	0.82	1.58	11.80	6.48	2.28	0.47	0.40	29.90	0.31	0.39
MEDIAN (ppm)	0.99	1.93	13.15	7.41	2.57	0.56	0.48	33.83	0.38	0.52
MAX (ppm)	1.12	2.17	14.14	8.19	2.75	0.65	0.56	37.00	0.49	0.71
IQR (ppm)	0.06	0.13	0.57	0.52	0.19	0.05	0.04	1.74	0.05	0.08
COUNT	56	56	51	53	51	56	56	53	52	55

Standard Reference	G909-1		G909-2		G909-3		G909-4		G909-5		G909-6		G909-7		G909-8		G909-9		G909-10		Method	Reading
	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
ZARAZMA	0.94	-0.71	1.86	-0.34	12.70	-0.54	7.58	0.51	2.50	-0.53	0.51	-1.23	0.44	-0.98	33.01	-0.41	<b>0.96</b>	<b>3.00</b>	0.44	-1.31	AR	ICP-ES
COMLAB	0.95	-0.58	1.81	-0.72	13.39	0.76	6.56	-2.13	2.56	-0.03	0.52	-1.07	0.42	-1.40	35.30	1.09	0.30	-2.23	0.44	-1.25	PR,AR	ICP-MS
COMLAB	1.06	1.22	2.03	1.00	13.50	0.95	7.80	1.08	2.70	1.14	0.59	0.92	0.53	1.24	34.40	0.50	0.40	0.36	0.62	1.39	AR	ICP-MS
COMLAB	1.06	1.22	2.01	0.84	12.21	-1.46	<b>9.87</b>	<b>3.00</b>	<b>0.50</b>	<b>3.00</b>	0.60	1.19	0.54	1.49	31.57	-1.36	0.42	0.89	0.55	0.34	FA	AAS,GRAV
COMLAB	1.04	0.90	1.97	0.53	13.60	1.14	7.74	0.93	2.66	0.81	0.59	0.92	0.49	0.26	36.50	1.88	0.39	0.10	0.60	1.09	AR	AAS
COMLAB	0.92	-1.08	1.80	-0.82	11.98	-1.89	6.93	-1.17	<b>4.50</b>	<b>3.00</b>	0.57	0.44	0.40	-2.01	31.40	-1.47	0.31	-2.13	0.54	0.25	AR	ICP-MS
COMLAB	1.06	1.22	2.05	1.16	13.60	1.14	7.57	0.49	2.74	1.48	0.56	0.11	0.50	0.50	33.20	-0.29	0.36	-0.69	0.50	-0.41	PR,AR	ICP-MS
COMLAB	0.97	-0.23	1.79	-0.90	12.80	-0.36	7.10	-0.73	2.56	-0.03	0.58	0.65	0.50	0.50	32.20	-0.94	0.41	0.63	0.68	2.29	AR	AAS
COMLAB	1.00	0.22	1.95	0.37	13.15	0.30	7.96	1.50	2.72	1.31	0.55	-0.29	0.48	0.03	34.70	0.70	0.38	-0.19	0.55	0.36	FA	ICP-ES
COMLAB	1.01	0.41	2.04	1.08	12.00	-1.86	7.82	1.13	2.73	1.40	0.56	0.06	0.49	0.33	33.20	-0.29	0.37	-0.40	0.51	-0.33	AR	DIBK
COMLAB	1.00	0.25	1.81	-0.74	12.25	-1.39	7.26	-0.32	2.66	0.81	0.56	0.11	0.46	-0.48	30.50	-2.06	0.38	-0.16	0.60	1.09	AR	ICP-MS
COMLAB	<b>1.20</b>	<b>3.00</b>	1.90	-0.03	13.50	0.95	7.40	0.05	2.70	1.14	0.57	0.25	0.48	-0.06	34.50	0.57	0.37	-0.37	0.49	-0.60	AR	ICP-MS
COMLAB	0.87	-1.92	1.66	-1.96	<b>11.30</b>	<b>-3.00</b>	6.76	-1.61	<b>1.99</b>	<b>-3.00</b>	<b>0.42</b>	<b>-3.00</b>	0.47	-0.36	<b>25.45</b>	<b>-3.00</b>	0.45	1.54	0.62	1.31	AR	AAS
COMLAB	1.00	0.22	2.04	1.08	12.90	-0.17	7.55	0.44	2.61	0.39	0.53	-0.70	0.46	-0.51	34.00	0.24	0.37	-0.40	<b>0.78</b>	<b>3.00</b>	AR	ICP-MS
COMLAB	0.91	-1.26	1.58	-2.55	<b>10.50</b>	<b>-3.00</b>	6.64	-1.92	2.42	-1.21	0.52	-0.96	0.40	-2.01	29.90	-2.45	<b>0.12</b>	<b>-3.00</b>	0.52	-0.05	PR,AR	ICP
COMLAB	0.83	-2.48	1.68	-1.76	12.31	-1.27	6.95	-1.12	2.28	-2.38	0.60	1.19	0.54	1.49	<b>39.11</b>	<b>3.00</b>	0.36	-0.69	0.55	0.34	AR	DIBK
COMLAB	1.03	0.73	2.10	1.55	<b>14.66</b>	<b>3.00</b>	7.47	0.23	2.45	-0.95	0.61	1.46	0.44	-0.98	33.39	-0.16	0.43	1.15	0.71	2.74	AR	DIBK
COMLAB	1.10	1.86	2.16	2.03	12.40	-1.11	7.70	0.82	<b>2.95</b>	<b>3.00</b>	0.59	0.92	0.49	0.26	35.00	0.90	0.40	0.36	0.49	-0.56	AR	DIBK
COMLAB	0.98	-0.07	1.89	-0.11	12.89	-0.19	7.10	-0.73	2.41	-1.29	0.52	-0.96	0.48	0.01	34.54	0.59	0.33	-1.47	0.48	-0.71	AR	DIBK
COMLAB	0.99	0.09	1.79	-0.90	12.20	-1.48	6.84	-1.40	2.41	-1.29	0.51	-1.23	0.45	-0.73	29.90	-2.45	0.34	-1.21	0.45	-1.16	AR	DIBK
COMLAB	0.86	-2.00	1.76	-1.13	<b>11.00</b>	<b>-3.00</b>	6.64	-1.92	2.39	-1.46	0.55	-0.16	0.54	1.49	32.20	-0.94	0.33	-1.47	0.55	0.34	AR	DIBK
COMLAB	1.08	1.54	1.97	0.53	13.30	0.58	7.74	0.93	2.56	-0.03	0.52	-0.96	0.49	0.26	34.10	0.30	0.42	0.89	0.49	-0.56	AR	DIBK
COMLAB	0.98	-0.07	1.87	-0.26	13.01	0.04	7.22	-0.42	2.63	0.56	0.57	0.38	0.46	-0.48	34.10	0.31	0.36	-0.69	0.50	-0.41	AR	ICP-MS
COMLAB	1.05	1.06	2.02	0.92	12.70	-0.54	7.50	0.31	2.59	0.22	0.59	0.92	0.56	1.98	36.20	1.68	0.35	-0.95	0.51	-0.26	AR	AAS
COMLAB	0.92	-1.04	<b>7.46</b>	<b>3.00</b>	13.17	0.34	<b>1.79</b>	<b>-3.00</b>	2.62	0.47	0.51	-1.23	0.43	-1.22	33.70	0.04	0.35	-0.95	0.39	-2.05	AR	DIBK
COMLAB	0.97	-0.28	1.86	-0.33	13.01	0.03	7.64	0.67	2.57	0.09	0.52	-1.10	0.46	-0.41	34.02	0.25	0.33	-1.56	0.49	-0.60	AR	ICP-MS
COMLAB	1.02	0.57	1.97	0.53	12.71	-0.53	7.18	-0.52	2.56	-0.03	0.57	0.38	0.49	0.26	33.75	0.07	0.36	-0.69	0.49	-0.56	AR	DIBK
COMLAB	0.96	-0.39	1.84	-0.50	13.16	0.32	<b>16.04</b>	<b>3.00</b>	2.40	-1.37	0.56	0.11	0.48	0.01	34.84	0.79	0.44	1.41	0.44	-1.31	FA	AAS
COMLAB	0.97	-0.23	1.94	0.29	12.80	-0.36	7.34	-0.11	2.65	0.72	0.53	-0.70	0.44	-0.98	32.80	-0.55	<b>0.16</b>	<b>-3.00</b>	0.56	0.49	FA	GRAV
COMLAB	0.96	-0.39	1.97	0.53	13.67	1.27	7.36	-0.06	2.62	0.47	0.58	0.65	0.50	0.50	33.38	-0.17	0.38	-0.16	0.57	0.64	AR	AAS
COMLAB	0.98	-0.07	1.96	0.45	13.30	0.58	7.28	-0.26	2.65	0.72	0.49	-1.77	0.49	0.26	35.00	0.90	0.42	0.89	0.56	0.49	AR	DIBK
COMLAB	1.06	1.22	2.17	2.10	11.80	-2.23	8.19	2.09	2.41	-1.29	0.62	1.73	0.45	-0.73	33.80	0.11	0.33	-1.47	0.46	-1.01	AR	DIBK
COMLAB	0.94	-0.76	1.73	-1.35	11.90	-2.05	6.78	-1.57	2.35	-1.81	0.49	-1.85	0.40	-2.04	33.98	0.22	0.37	-0.53	0.45	-1.11	AR	AAS
COMLAB	1.02	0.57	1.88	-0.18	13.00	0.02	7.68	0.77	2.40	-1.37	0.61	1.46	0.52	1.00	34.40	0.50	0.38	-0.16	0.60	1.09	AR	DIBK
COMLAB	0.99	0.09	1.75	-1.21	12.60	-0.73	7.35	-0.08	2.75	1.56	0.62	1.73	0.48	0.01	32.30	-0.88	0.39	0.10	0.46	-1.01	AR	DIBK
COMLAB	0.98	-0.07	1.90	-0.03	12.80	-0.36	7.23	-0.39	2.56	-0.03	0.55	-0.16	0.49	0.26	32.60	-0.68	0.38	-0.16	0.53	0.04	AR	
COMLAB	1.02	0.57	1.96	0.45	13.20	0.39	7.62	0.62	2.46	-0.87	0.56	0.11	0.54	1.49	32.70	-0.61	0.41	0.63	0.50	-0.41	AR	DIBK
COMLAB	0.92	-1.04	1.92	0.13	13.27	0.52	7.48	0.25	<b>3.10</b>	<b>3.00</b>	0.52	-0.96	0.56	1.98	32.97	-0.44	0.43	1.15	0.57	0.64	AR	DIBK
COMLAB	1.00	0.25	1.86	-0.34	13.20	0.39	7.66	0.72	2.63	0.56	0.57	0.38	0.51	0.75	34.38	0.49	0.40	0.36	0.51	-0.26	PR,AR	AAS,DIBK
COMLAB	0.97	-0.23	1.96	0.45	12.92	-0.13	7.58	0.51	2.66	0.81	0.58	0.65	0.47	-0.24	32.32	-0.86	0.49	2.72	0.44	-1.31	PR,AR	DIBK
COMLAB	1.12	2.18	1.93	0.21	13.20	0.39	7.41	0.07	2.65	0.72	0.57	0.38	0.47	-0.24	32.81	-0.54	0.39	0.10	0.60	1.09	PR,AR	DIBK
COMLAB	0.99	0.09	1.85	-0.42	13.24	0.47	6.89	-1.27	<b>0.31</b>	<b>-3.00</b>	<b>0.75</b>	<b>3.00</b>	<b>1.72</b>	<b>3.00</b>	<b>30.62</b>	<b>-1.98</b>	<b>0.62</b>	<b>3.00</b>	<b>0.93</b>	<b>3.00</b>	FA	GRAV
MINELAB	<b>1.30</b>	<b>3.00</b>	<b>2.45</b>	<b>3.00</b>	<b>10.63</b>	<b>-3.00</b>	<b>6.10</b>	<b>-3.00</b>	<b>3.10</b>	<b>3.00</b>	0.51	-1.23	1.14	<b>3.00</b>	<b>26.30</b>	<b>-3.00</b>	<b>1.46</b>	<b>3.00</b>	<b>1.22</b>	<b>3.00</b>	AR	AAS
MINELAB	1.02	0.49	1.95	0.37	13.20	0.39	7.61	0.60	2.52	-0.40	0.55	-0.29	0.46	-0.48	35.29	1.09	0.36	-0.76	0.49	-0.50	AR	AAS,ICP
MINELAB	0.91	-1.20	1.94	0.29	14.14	2.15	7.75	0.95	2.72	1.31	0.56	0.11	0.54	1.49	<b>18.</b>							



Low Grade Gold Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - October 2009

Standard Reference	GLG909-1	GLG909-2	GLG909-3	GLG909-4	GLG909-5
MEAN (ppb)	65	156	52	18	2
STDEV (ppb)	3	16	4	4	1
95% CI (ppb)	1	4	1	1	0
95% CI (%)	1.29%	2.62%	1.98%	5.23%	20.25%
MIN (ppb)	58	116	43	12	1
MEDIAN (ppb)	65	157	51	18	2
MAX (ppb)	71	195	61	28	4
IQR (ppb)	4	14	5	5	2
COUNT	48	61	54	52	25

Standard Reference	GLG909-1		GLG909-2		GLG909-3		GLG909-4		GLG909-5		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
BECQUEREL-NAA	68	0.95	170	0.89	55	0.85	18	-0.12	<5	blid	NAA	
ZARAZMA	70	1.67	176	1.26	56	1.20	17	-0.54	<1	blid	FA	GF
COMLAB	63	-0.75	163	0.46	49	-0.73	14	-1.26	<1	blid	FA	ICP-MS
COMLAB	66	0.27	157	0.09	57	1.38	39	3.00	<2	blid	NAA	AAS
COMLAB	65	-0.07	158	0.15	51	-0.20	25	1.88	<5	blid	FA	AAS
COMLAB	71	1.98	153	-0.16	68	3.00	22	1.03	9	3.00	FA	AAS
COMLAB	61	-1.57	134	-1.34	46	-1.62	19	0.23	2	-0.18	FA	AAS
COMLAB	64	-0.41	142	-0.84	50	-0.46	21	0.74	2	-0.39	FA	ICP-MS
COMLAB	64	-0.41	153	-0.16	52	0.06	19	0.17	1	-0.92	PR,AR	ICP-MS
COMLAB	61	-1.43	154	-0.10	50	-0.46	15	-0.97	1	-0.92	FA	ICP-ES
COMLAB	66	0.27	153	-0.16	50	-0.46	16	-0.69	<1	blid	FA	ICP-ES
COMLAB	65	-0.07	152	-0.22	49	-0.73	16	-0.69	<2	blid	FA	ICP-ES
COMLAB	64	-0.41	157	0.09	52	0.06	18	-0.12	1	-0.92	FA	ICP-ES
COMLAB	67	0.61	163	0.46	51	-0.20	19	0.17	<1	blid	FA	ICP-ES
COMLAB	65	-0.07	160	0.27	48	-0.99	15	-0.97	<2	blid	FA	AAS
COMLAB	62	-1.09	149	-0.41	50	-0.46	16	-0.69	1	-0.92	FA	ICP-ES
COMLAB	76	3.00	154	-0.10	52	0.06	16	-0.69	<2	blid	FA	AAS
COMLAB	66	0.27	166	0.65	50	-0.46	17	-0.40	nr	nr	FA	ICP-ES
COMLAB	69	1.30	165	0.58	53	0.33	15	-0.97	1	-0.92	FA	ICP-ES
COMLAB	65	-0.07	140	-0.97	48	-0.99	15	-0.97	1	-0.92	AR	ICP-MS
COMLAB	76	3.00	165	0.58	51	-0.20	13	-1.54	2	0.13	FA	
COMLAB	69	1.30	125	-1.90	49	-0.73	22	1.03	<5	blid	AR	DIBK
COMLAB	64	-0.41	130	-1.59	48	-0.99	17	-0.40	<1	blid	AR	DIBK
COMLAB	68	0.95	153	-0.16	46	-1.51	15	-0.97	<5	blid	FA	AAS
COMLAB	67	0.61	163	0.46	51	-0.20	15	-0.97	1	-0.92	FA	AAS
COMLAB	62	-1.09	154	-0.10	49	-0.73	15	-0.97	1	-0.92	AR	GF
COMLAB	63	-0.75	120	-2.21	64	3.00	29	3.00	18	3.00	FA	ICP-MS
COMLAB	64	-0.41	160	0.27	49	-0.73	17	-0.40	1	-0.92	FA	ICP-MS
COMLAB	97	3.00	175	1.20	60	2.17	28	2.74	7	3.00	FA	GF
COMLAB	60	-1.77	154	-0.10	51	-0.20	17	-0.40	3	1.19	FA	ICP-MS
COMLAB	61	-1.43	150	-0.35	53	0.33	18	-0.12	3	1.19	FA	ICP-MS
COMLAB	65	-0.07	147	-0.53	54	0.59	15	-0.97	2	0.13	AR	ICP-MS
COMLAB	70	1.64	159	0.21	54	0.59	16	-0.69	3	1.19	FA	AAS
COMLAB	81	3.00	160	0.27	60	2.17	37	3.00	9	3.00	FA	ICP-ES
COMLAB	81	3.00	168	0.77	67	3.00	35	3.00	21	3.00	FA	ICP
COMLAB	76	3.00	162	0.40	58	1.64	23	1.31	1	-0.92	FA	AAS
COMLAB	64	-0.41	193	2.32	57	1.38	16	-0.69	<5	blid	FA	AAS
COMLAB	65	-0.07	158	0.15	51	-0.20	20	0.46	6	3.00	AR	DIBK
COMLAB	67	0.61	158	0.15	48	-0.99	12	-1.83	<5	blid	FA	AAS
COMLAB	62	-1.09	148	-0.47	51	-0.20	21	0.74	7	3.00	FA	AAS
COMLAB	66	0.27	144	-0.72	52	0.06	21	0.74	7	3.00	PR	ICP-MS
COMLAB	42	-3.00	124	-1.96	40	-3.00	5	-3.00	6	3.00	FA	DIBK
COMLAB	62	-1.09	163	0.46	50	-0.46	18	-0.12	6	3.00	FA	ICP-ES
COMLAB	68	0.95	193	2.32	56	1.12	25	1.88	4	2.24	FA	ICP-ES
COMLAB	67	0.61	168	0.77	54	0.59	18	-0.12	<1	blid	FA	DIBK
COMLAB	58	-2.59	163	0.46	43	-2.41	22	1.11	<5	blid	FA	AAS
COMLAB	68	0.95	154	-0.09	52	0.06	21	0.60	1	-0.71	FA	ICP-MS
COMLAB	68	0.95	162	0.40	54	0.59	18	-0.12	3	1.19	FA	ICP-ES
COMLAB	83	3.00	164	0.52	54	0.59	23	1.31	6	3.00	FA	AAS
COMLAB	66	0.27	152	-0.22	52	0.06	19	0.17	2	0.13	FA	AAS
COMLAB	63	-0.75	149	-0.41	49	-0.73	22	1.03	2	0.13	FA	AAS
COMLAB	53	-3.00	131	-1.53	47	-1.25	18	-0.12	220	3.00	FA,AR	DIBK
COMLAB	55	-3.00	116	-2.46	23	-3.00	44	3.00	184	3.00	FA,AR	DIBK
COMLAB	62	-1.09	144	-0.72	51	-0.20	14	-1.26	2	0.13	FA	AAS
COMLAB	340	3.00	550	3.00	340	3.00	410	3.00	580	3.00	FA	GRAV
MINELAB	69	1.30	156	0.03	56	1.12	26	2.17	<5	blid	FA	AAS
MINELAB	130	3.00	180	1.51	20	-3.00	30	3.00	70	3.00	NAA	
MINELAB	65	0.00	88	-3.00	48	-1.12	20	0.34	6	3.00	FA	AAS
MINELAB	77	3.00	163	0.46	61	2.43	30	3.00	16	3.00	FA	AAS
MINELAB	130	3.00	220	3.00	90	3.00	60	3.00	30	3.00	FA,AR	AAS
MINELAB	65	-0.03	173	1.08	54	0.56	22	1.00	3	1.62	FA	ICP-ES
MINELAB	69	1.30	158	0.15	48	-0.99	34	3.00	blid	blid	FA	AAS
MINELAB	31	-3.00	38	-3.00	14	-3.00	blid	blid	blid	blid	CYAN	AAS
MINELAB	82	3.00	195	2.44	67	3.00	30	3.00	11	3.00	FA	AAS,DIBK
MINELAB	63	-0.75	152	-0.22	56	1.12	17	-0.40	<2	blid	AR	ICP-MS
MINELAB	35	-3.00	82	-3.00	26	-3.00	19	0.17	3	1.19	AR	DIBK
MINELAB	45	-3.00	129	-1.65	27	-3.00	6	-3.00	26	3.00	FA	DIBK

Highlighted values are outliers which are assigned a z-score of -3.00 or 3.00 in the standardised values



**Gold on Carbon Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - October 2009**

Standard Reference	GBC909-1	GBC909-2	GLC909-1	GLC909-2	GLC909-2	GLC909-2
MEAN (ppm)	141	284	5006	1384	2378	2695
STDEV (ppm)	7	20	332	87	161	142
95% CI (ppm)	2	5	81	21	39	37
95% CI (%)	1.32%	1.79%	1.62%	1.55%	1.65%	1.36%
MIN (ppm)	126	230	4200	1161	1933	2390
MEDIAN (ppm)	142	284	5008	1383	2377	2667
MAX (ppm)	156	323	5720	1611	2749	3017
IQR (ppm)	10	27	326	107	181	171
COUNT	56	62	65	64	65	59

Standard Reference	GBC909-1		GBC909-2		GLC909-1		GLC909-2		GLC909-2		GLC909-2		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
COMLAB	135	-0.91	275	-0.46	4990	-0.05	1470	0.99	2360	-0.11	2660	-0.25	FA	GRAV
COMLAB	140	-0.22	281	-0.19	4939	-0.20	1399	0.17	2379	0.01	2674	-0.15	FA	GRAV
COMLAB	126	-2.19	253	-1.55	4950	-0.17	1342	-0.49	2377	-0.01	2659	-0.25	FA	AAS
COMLAB	145	0.51	308	1.17	5360	1.07	1560	2.02	2620	1.51	2980	2.00	PR,AR	AAS
COMLAB	147	0.79	300	0.77	5460	1.37	1530	1.68	2560	1.13	2930	1.65	FA	AAS
COMLAB	141	-0.02	287	0.10	4940	-0.20	1278	-1.23	2195	-1.14	2670	-0.18	FA	GRAV
COMLAB	147	0.79	315	1.51	5550	1.64	1560	2.02	2610	1.44	2900	2.07	PR	AAS
COMLAB	147	0.81	311	1.31	5188	0.55	1452	0.77	2513	0.84	2876	1.27	FA	GRAV
COMLAB	141	-0.06	273	-0.59	5100	0.28	1385	0.01	2375	-0.02	2785	0.63	PR	AAS
COMLAB	169	3.00	316	1.56	5177	0.51	1448	0.73	2474	0.60	2555	-0.98	PR,AR	AAS
COMLAB	192	3.00	256	-1.40	4322	-2.06	1580	2.25	2232	-0.91	2489	-1.45	FA	AAS,GRAV
COMLAB	144	0.36	295	0.52	5196	0.57	1371	-0.15	2436	0.36	2730	0.25	FA	GRAV
COMLAB	135	-0.97	287	0.11	5008	0.00	1347	-0.43	2375	-0.02	2667	-0.20	FA	GRAV
COMLAB	144	0.36	308	1.17	5182	0.53	1465	0.93	2490	0.70	2900	1.44	FA	GRAV
COMLAB	136	-0.81	285	0.04	4947	-0.18	1388	0.04	2380	0.01	2647	-0.34	FA,PR	GRAV
COMLAB	147	0.75	306	1.07	5254	0.75	1445	0.70	2481	0.64	2912	1.52	FA	GRAV
COMLAB	127	-2.04	275	-0.46	4451	-1.67	1282	-1.18	2240	-0.86	2516	-1.26	PR,AR	ICP-ES
COMLAB	148	0.93	308	1.17	5548	1.63	1450	0.76	2373	-0.03	2671	-0.17	PR,AR	AAS
COMLAB	140	-0.20	284	-0.02	4992	-0.04	1220	-1.89	1968	-2.55	2180	-3.00	FA	AAS
COMLAB	144	0.36	286	0.08	5042	0.11	1384	0.00	2383	0.03	2681	-0.10	FA	GRAV
COMLAB	128	-1.90	275	-0.46	5500	1.49	2200	3.00	3200	3.00	3300	3.00	FA	GRAV
COMLAB	142	0.08	285	0.03	5060	0.16	1317	-0.78	2300	-0.49	2411	-2.00	FA	GRAV
COMLAB	259	3.00	497	3.00	4327	-2.05	1365	-0.22	2347	-0.19	nr	nr	Red Pb	GRAV
COMLAB	140	-0.20	271	-0.66	5552	1.65	1306	-0.90	2562	1.14	2820	0.88	PR,AR	AAS
COMLAB	135	-0.91	292	0.38	4840	-0.50	1370	-0.17	2090	-1.79	2620	-0.53	FA	AAS
COMLAB	142	0.08	286	0.08	4910	-0.29	1330	-0.63	2340	-0.24	2600	-0.67	FA	AAS,GRAV
COMLAB	150	1.22	312	1.36	4960	-0.14	1389	0.05	2527	0.93	2607	-0.62	FA	GRAV
COMLAB	144	0.29	311	1.33	5287	0.85	1478	1.08	2531	0.95	2946	1.76	FA,PR	GRAV
COMLAB	113	-3.00	243	-2.05	4249	-2.28	1161	-2.57	1933	-2.77	2203	-3.00	FA	AAS
COMLAB	143	0.22	287	0.13	5220	0.64	1370	-0.17	2350	-0.18	2580	-0.81	FA	GRAV
COMLAB	150	1.22	260	-1.21	4745	-0.79	1400	0.18	2440	0.39	2650	-0.32	PR,AR	AAS
COMLAB	153	1.64	318	1.66	5074	0.20	1498	1.31	2618	1.49	2924	1.61	FA	GRAV
COMLAB	146	0.65	285	0.03	4930	-0.23	1410	0.30	2370	-0.05	2640	-0.39	FA	GRAV
COMLAB	143	0.22	291	0.33	5130	0.37	1410	0.30	2320	-0.36	2600	-0.67	AR	AAS
COMLAB	142	0.08	283	-0.07	4339	-2.01	1332	-0.60	2297	-0.51	2557	-0.97	FUS	AAS,GRAV
COMLAB	155	1.92	313	1.41	5191	0.56	1314	-0.81	2645	1.66	2649	-0.32	PR	AAS
COMLAB	127	-2.04	265	-0.96	5045	0.12	1386	0.02	2403	0.15	2621	-0.52	FA	GRAV
COMLAB	135	-0.91	284	-0.02	4730	-0.83	1334	-0.58	2281	-0.60	2610	-0.60	FA,PR	GRAV
COMLAB	131	-1.48	278	-0.32	4662	-1.04	1298	-0.99	2289	-0.55	2632	-0.44	FA,PR	GRAV
MINELAB	140	-0.21	248	-1.81	4799	-0.63	1369	-0.18	2116	-1.63	2627	-0.48	FA	AAS
MINELAB	150	1.14	262	-1.13	433	-3.00	1348	-0.42	2242	-0.85	2171	-3.00	AR	AAS
MINELAB	120	-3.00	220	-3.00	4600	-1.22	1120	-3.00	2100	-1.73	2390	-2.14	FA	AAS,GRAV
MINELAB	156	2.07	316	1.56	5486	1.45	1432	0.55	2537	0.99	3017	2.26	AR	AAS
MINELAB	149	1.07	307	1.12	5484	1.44	1481	1.11	2578	1.24	2889	1.36	PR	AAS
MINELAB	70	-3.00	116	-3.00	4970	-0.11	1307	-0.89	2460	0.51	2676	-0.13	FA,PR	AAS
MINELAB	119	-3.00	259	-1.28	4864	-0.43	1344	-0.47	2425	0.29	2802	0.75	AR	AAS
MINELAB	144	0.36	281	-0.17	5720	2.15	1611	2.61	2749	2.31	3155	3.00	PR,AR	AAS
MINELAB	144	0.36	279	-0.27	5205	0.60	1385	0.01	2345	-0.21	2705	0.07	FA	GRAV
MINELAB	137	-0.68	288	0.16	5112	0.32	1430	0.52	2460	0.51	2793	0.69	FA	GRAV
MINELAB	136	-0.76	300	0.78	5061	0.16	1321	-0.73	2461	0.51	2794	0.70	FA,PR	GRAV
MINELAB	146	0.65	276	-0.42	4915	-0.28	1436	0.59	2416	0.24	2711	0.11	AR	AAS
MINELAB	142	0.08	287	0.13	5010	0.01	1377	-0.08	2144	-1.46	2696	0.01	FA	GRAV
MINELAB	139	-0.34	204	-3.00	4732	-0.83	1269	-1.33	2231	-0.92	2462	-1.64	PR	AAS
MINELAB	142	0.12	284	0.00	4684	-0.97	1349	-0.40	2239	-0.87	2532	-1.15	PR,AR	DIBK
MINELAB	120	-3.00	279	-0.27	5005	0.00	1398	0.16	2364	-0.09	2632	-0.44	FA	GRAV
MINELAB	137	-0.56	256	-1.43	4862	-0.44	1281	-1.19	2327	-0.32	2633	-0.43	FA	GRAV
MINELAB	138	-0.46	283	-0.05	4928	-0.23	1291	-1.07	2382	0.02	2643	-0.37	FA,PR	GRAV
MINELAB	133	-1.19	267	-0.86	4852	-0.47	1350	-0.40	2307	-0.44	2547	-1.04	FA	AAS,GRAV
MINELAB	114	-3.00	165	-3.00	2958	-3.00	940	-3.00	1541	-3.00	1734	-3.00	FA	GRAV
MINELAB	131	-1.48	271	-0.66	5016	0.03	1314	-0.81	2311	-0.42	2622	-0.51	AR	AAS
MINELAB	174	3.00	262	-1.11	4740	-0.80	1400	0.18	2640	1.63	2730	0.25	FA	AAS
MINELAB	142	0.08	284	-0.02	4878	-0.39	1379	-0.06	2380	0.01	2644	-0.36	AR	AAS
MINELAB	138	-0.49	274	-0.51	5600	1.79	1413	0.33	2370	-0.05	2714	0.13	AR	AAS
MINELAB	148	0.93	299	0.72	5090	0.25	1450	0.76	2510	0.82	2790	0.67	FA	AAS
MINELAB	120	-3.00	230	-2.69	4200	-2.43	1200	-2.12	2100	-1.73	2200	-3.00	FA	AAS
MINELAB	135	-0.91	273	-0.56	5130	0.37	1381	-0.04	2430	0.32	2680	-0.11	FA	AAS
MINELAB	154	1.78	323	1.91	5118	0.34	1460	0.87	2489	0.69	2823	0.90	PR,AR	AAS

Highlighted values are outliers which are assigned a z-score of -3.00 or 3.00 in the standardised values





**Silver on Carbon Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - October 2009**

Standard Reference	GBC909-1	GBC909-2	GLC909-1	GLC909-1	GLC909-1	GLC909-2
MEAN (ppm)	174	342	1753	424	222	1425
STDEV (ppm)	12	38	260	30	25	127
95% CI (ppm)	5	15	100	12	9	51
95% CI (%)	3.15%	4.24%	5.70%	2.86%	4.12%	3.56%
MIN (ppm)	150	260	1178	354	162	1200
MEDIAN (ppm)	175	345	1800	430	222	1440
MAX (ppm)	192	410	2185	470	280	1709
IQR (ppm)	16	49	397	37	30	163
COUNT	21	28	27	25	29	25

Standard Reference	GBC909-1		GBC909-2		GLC909-1		GLC909-1		GLC909-1		GLC909-2		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
COMLAB	150	-1.90	319	-0.61	1500	-0.97	323	-3.00	191	-1.26	981	-3.00	FA	GRAV
COMLAB	189	1.26	362	0.50	1965	0.81	448	0.80	217	-0.23	1461	0.28	FA	GRAV
COMLAB	190	1.30	375	0.85	2100	1.34	459	1.16	235	0.51	1550	0.98	PR,AR	AAS
COMLAB	159	-1.18	346	0.08	1768	0.06	387	-1.22	263	1.63	1400	-0.20	FA	GRAV
COMLAB	181	0.60	377	0.89	1989	0.91	453	0.96	242	0.81	1618	1.52	FA	GRAV
COMLAB	176	0.18	304	-1.00	2185	1.66	447	0.77	232	0.41	1510	0.67	AR	AAS
COMLAB	166	-0.59	338	-0.11	1551	-0.78	326	-3.00	231	0.34	1244	-1.43	FA	GRAV
COMLAB	268	3.00	388	1.19	2055	1.16	439	0.49	332	3.00	1709	2.24	FA	GRAV
COMLAB	169	-0.38	375	0.84	1826	0.28	437	0.42	262	1.59	1445	0.15	FA,PR	GRAV
COMLAB	192	1.49	315	-0.70	1409	-1.32	439	0.50	206	-0.67	1302	-0.97	PR,AR	ICP-MS
COMLAB	176	0.18	345	0.07	1826	0.28	424	0.00	226	0.15	1404	-0.17	AR	AAS
COMLAB	215	3.00	360	0.46	1470	-1.09	433	0.30	162	-2.44	1516	0.72	FA	GRAV
COMLAB	96	-3.00	133	-3.00	411	-3.00	318	-3.00	382	3.00	nr	nr	Red Pb	GRAV
COMLAB	163	-0.86	335	-0.19	1970	0.84	392	-1.06	205	-0.70	1450	0.19	AR	AAS
COMLAB	175	0.10	410	1.76	2071	1.22	466	1.39	248	1.04	1615	1.50	FA,PR	GRAV
COMLAB	185	0.90	350	0.20	1990	0.91	430	0.20	210	-0.50	1500	0.59	PR,AR	AAS
COMLAB	160	-1.10	351	0.22	1680	-0.28	428	0.13	196	-1.06	1280	-1.15	AR	AAS
COMLAB	226	3.00	396	1.39	1590	-0.63	413	-0.36	239	0.68	1500	0.59	AR	AAS
COMLAB	182	0.66	328	-0.37	1640	-0.44	386	-1.26	220	-0.09	1324	-0.80	FUS	AAS,GRAV
COMLAB	175	0.10	361	0.48	1820	0.26	429	0.16	218	-0.17	1346	-0.63	FUS	ICP-ES
COMLAB	133	-3.00	278	-1.67	1393	-1.39	354	-2.31	222	-0.01	1337	-0.70	FA,PR	GRAV
COMLAB	123	-3.00	275	-1.75	1178	-2.21	373	-1.68	236	0.55	1245	-1.42	FA,PR	GRAV
MINELAB	172	-0.14	330	-0.32	1793	0.15	432	0.26	214	-0.33	1490	0.51	AR	AAS
MINELAB	21	-3.00	50	-3.00	785	-3.00	87	-3.00	81	-3.00	567	-3.00	AR	AAS
MINELAB	176	0.16	378	0.93	nr	nr	446	0.73	225	0.09	nr	nr	PR,AA	AAS
MINELAB	190	1.30	380	0.98	1800	0.18	470	1.52	240	0.72	1440	0.12	FA,AR	AAS
MINELAB	122	-3.00	333	-0.24	1819	0.25	409	-0.50	196	-1.06	1368	-0.45	FA	GRAV
MINELAB	171	-0.22	343	0.02	1847	0.36	426	0.07	230	0.31	1379	-0.37	FA	GRAV
MINELAB	87	-3.00	275	-1.75	654	-3.00	5	-3.00	148	-3.00	632	-3.00	FA	GRAV
MINELAB	80	-3.00	165	-3.00	1297	-1.76	289	-3.00	194	-1.14	518	-3.00	AR	AAS
MINELAB	260	3.00	480	3.00	1800	0.18	580	3.00	210	-0.50	1200	-1.78	FA	DIFF
MINELAB	150	-1.90	260	-2.14	600	-3.00	380	-1.45	280	2.33	320	-3.00	PR,AR	AAS
MINELAB	49	-3.00	93	-3.00	407	-3.00	261	-3.00	198	-0.98	249	-3.00	AR	AAS

Highlighted values are outliers which are assigned a z-score of -3.00 or 3.00 in the standardised values



# Silver Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - October 2009

Standard Reference	GBM909-1	GBM909-2	GBM909-3	GBM909-4	GBM909-5	GBM909-6	GBM909-7	GBM909-8	GBM909-9	GBM909-10
MEAN (ppm)	0.6	0.6	3.0	387.4	14.4	3.1	0.7	1.4	100.6	4.6
STDEV (ppm)	0.3	0.2	0.2	22.6	1.1	0.3	0.2	0.4	5.2	0.7
95% CI (ppm)	0.1	0.1	0.0	5.5	0.3	0.1	0.1	0.1	1.2	0.2
95% CI (%)	12.94%	10.87%	1.68%	1.43%	1.83%	2.08%	7.58%	5.88%	1.23%	3.35%
MIN (ppm)	0.1	0.1	2.5	336.6	12.0	2.5	0.3	0.7	87.0	2.9
MEDIAN (ppm)	0.6	0.6	3.0	390.0	14.5	3.1	0.7	1.3	101.0	4.5
MAX (ppm)	1.4	1.1	3.5	437.0	17.5	3.8	1.3	2.3	112.0	6.5
IQR (ppm)	0.5	0.4	0.3	29.6	1.2	0.2	0.3	0.5	5.6	1.0
COUNT	50	51	65	65	73	61	58	75	70	77

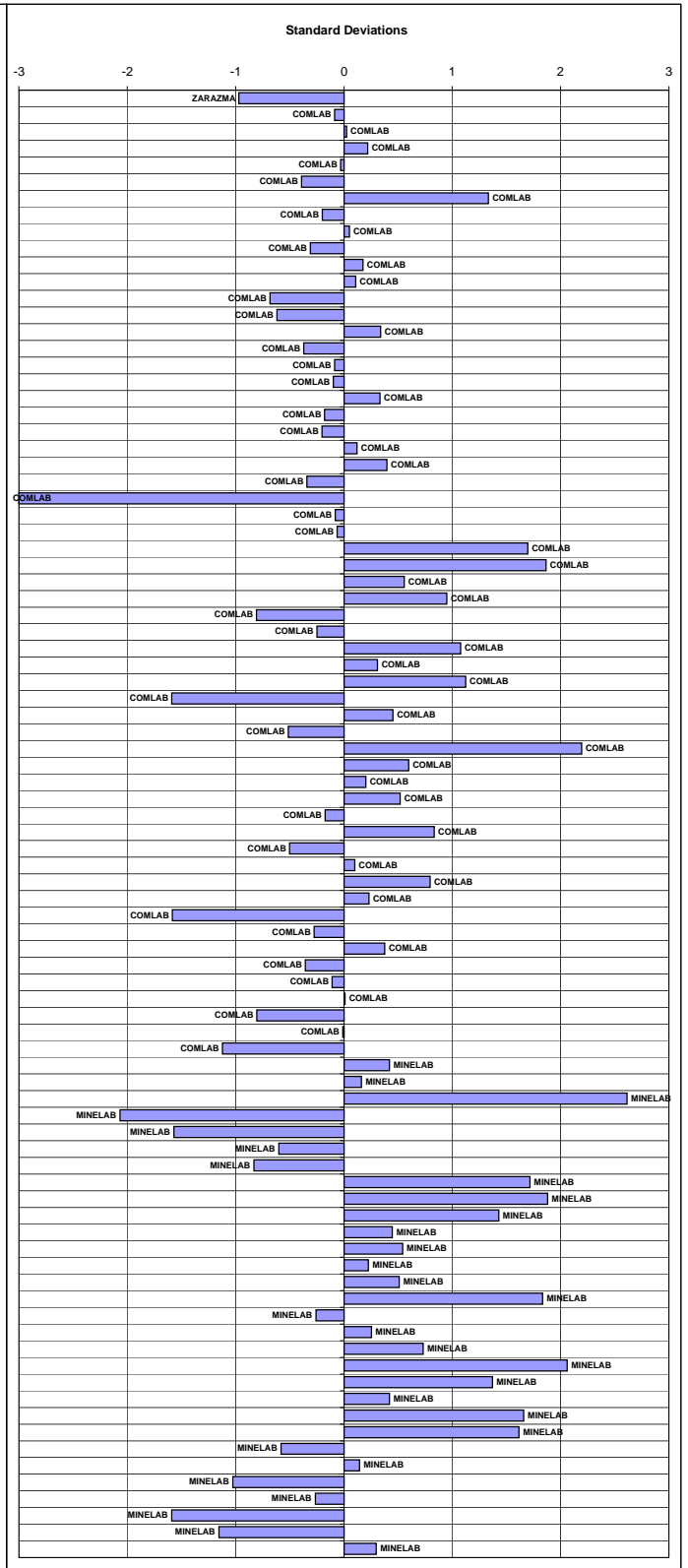
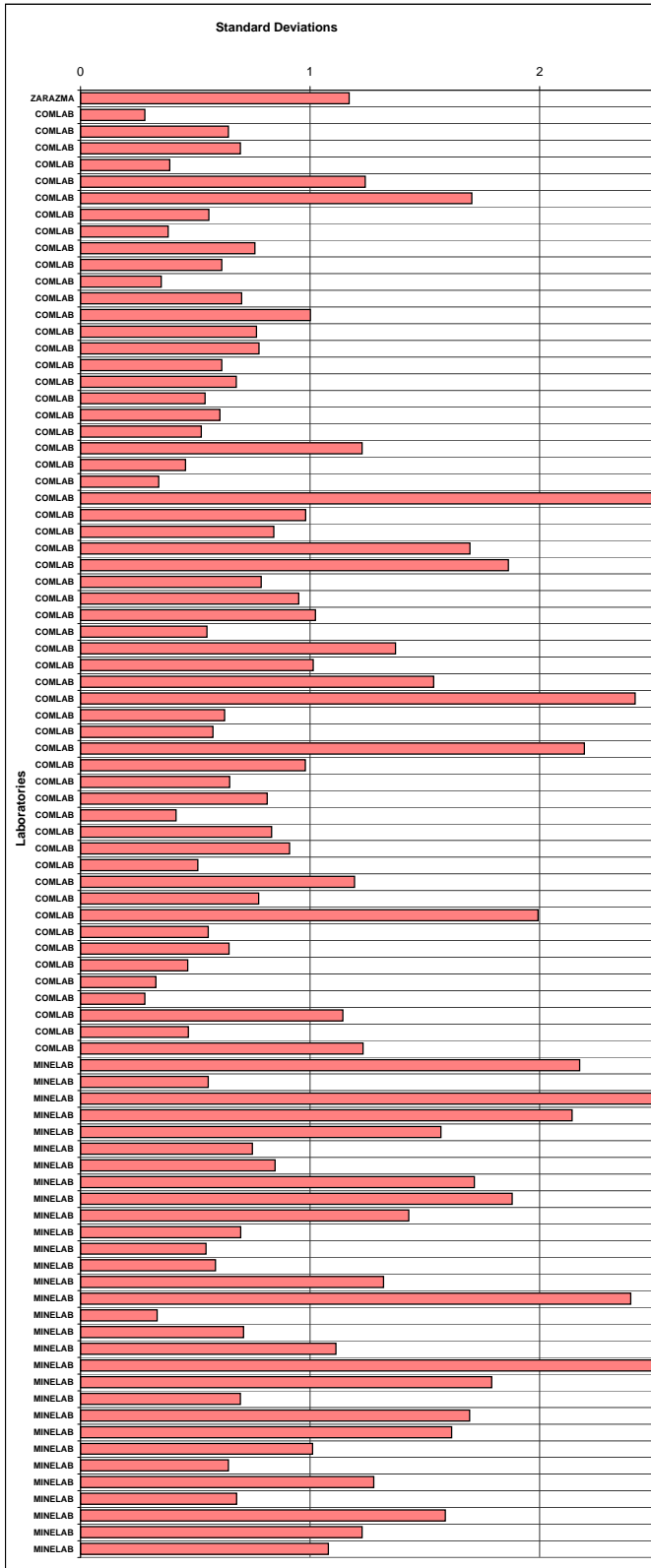
Standard Reference	GBM909-1		GBM909-2		GBM909-3		GBM909-4		GBM909-5		GBM909-6		GBM909-7		GBM909-8		GBM909-9		GBM909-10		Method	Reading
	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
Lab Reference																						
BECQUEREL-NAA	1.0	1.33	2.0	3.00	3.0	0.14	400.0	0.56	18.0	3.00	3.0	-0.50	1.0	1.18	1.0	-1.13	101.0	0.08	5.0	0.62	NAA	
ZARAZMA	0.6	-0.10	0.9	0.90	3.9	3.00	401.6	0.63	15.9	1.27	2.9	-0.77	0.6	-0.48	1.6	0.60	104.1	0.67	3.9	-0.98	4A	ICP-ES
COMLAB	<0.5	blid	0.6	-0.14	3.0	0.14	>200.0	ald	13.4	-0.89	3.6	1.83	0.6	-0.66	1.2	-0.58	101.5	0.18	4.3	-0.41	4A	ICP-ES
COMLAB	0.1	-1.81	0.2	-1.75	2.2	-3.00	>100.0	ald	13.7	-0.62	2.3	-3.00	0.3	-2.04	2.5	2.99	97.3	-0.62	4.4	-0.26	4A	ICP-MS
COMLAB	0.5	-0.35	0.5	-0.38	3.3	1.57	384.0	-0.15	14.3	-0.10	3.0	-0.54	0.6	-0.75	1.2	-0.53	100.0	-0.11	4.8	0.34	4A	ICP-MS
COMLAB	0.5	-0.42	0.4	-0.94	2.9	-0.35	373.0	-0.64	14.9	0.43	3.2	0.27	0.5	-1.12	1.2	-0.58	99.9	-0.13	4.2	-0.55	4A	AAS
COMLAB	1.0	1.33	1.0	1.47	3.0	0.14	292.0	-3.00	15.0	0.52	3.0	-0.50	1.0	1.18	1.0	-1.13	232.0	3.00	5.0	0.62	4A	AAS
COMLAB	1.8	3.00	1.9	3.00	4.0	3.00	426.0	1.71	17.5	2.71	4.1	3.00	1.8	3.00	2.2	2.16	99.1	-0.28	5.9	1.94	4A	ICP-ES
COMLAB	<0.5	blid	0.6	-0.14	3.2	1.12	408.0	0.91	15.0	0.52	3.1	-0.11	0.6	-0.66	1.3	-0.31	102.0	0.27	4.7	0.18	4A	ICP-ES
COMLAB	<0.5	blid	1.5	3.00	2.9	-0.35	392.0	0.21	14.4	-0.01	3.2	0.27	0.7	-0.20	1.6	0.52	105.0	0.85	5.2	0.91	4A	ICP-ES
COMLAB	0.4	-0.77	0.4	-0.94	3.2	1.12	402.0	0.65	14.8	0.34	3.2	0.27	0.6	-0.66	1.3	-0.31	102.0	0.27	4.3	-0.41	4A	ICP-ES
COMLAB	<0.5	blid	<0.5	blid	2.9	-0.35	376.0	-0.50	13.9	-0.45	3.2	0.27	0.6	-0.66	1.4	-0.03	101.0	0.08	4.5	-0.11	4A	ICP-ES
COMLAB	<0.5	blid	<0.5	blid	2.8	-0.84	409.0	0.96	13.8	-0.54	2.8	-1.28	<0.5	blid	1.0	-1.13	106.0	1.04	4.5	-0.11	4A	AAS
COMLAB	<0.5	blid	<0.5	blid	2.8	-0.84	379.0	-0.37	14.5	0.08	2.9	-0.89	0.5	-1.12	1.1	-0.85	103.0	0.46	4.6	0.03	4A	ICP-ES
COMLAB	<0.5	blid	0.5	-0.54	2.8	-0.84	380.0	-0.33	15.2	0.69	2.9	-0.89	0.6	-0.66	1.2	-0.58	99.0	-0.30	4.5	-0.11	4A	ICP-ES
COMLAB	0.8	0.63	0.6	-0.14	3.2	1.12	391.0	0.16	14.6	0.16	3.1	-0.11	0.8	0.26	1.1	-0.85	99.8	-0.15	4.1	-0.70	4A	AAS
COMLAB	<1.0	blid	<1.0	blid	3.0	0.14	403.0	0.69	14.0	-0.36	4.0	3.00	<1.0	blid	2.0	1.62	101.0	0.08	4.0	-0.85	4A	AAS
COMLAB	nr	nr	nr	nr	3.0	0.14	393.0	0.25	14.0	-0.36	3.6	1.83	nr	nr	1.3	-0.31	101.0	0.08	4.1	-0.70	4A	ICP-ES
COMLAB	1.0	1.33	1.0	1.47	3.0	0.14	400.0	0.56	13.0	-1.24	4.0	3.00	<1.0	blid	1.0	-1.13	100.0	-0.11	5.0	0.62	4A	ICP-ES
COMLAB	0.6	-0.07	0.8	0.66	3.2	1.12	431.0	1.93	16.0	1.39	3.5	1.44	0.5	-1.12	1.5	0.24	111.0	1.99	5.6	1.50	4A	ICP-MS
COMLAB	0.5	-0.42	0.4	-0.94	3.0	0.14	344.0	-1.92	13.8	-0.54	3.0	-0.50	0.6	-0.66	1.3	-0.31	98.6	-0.38	4.4	-0.26	4A	ICP-ES
COMLAB	<2.0	blid	<2.0	blid	3.0	0.14	398.0	0.47	15.0	0.52	3.0	-0.50	<2.0	blid	2.0	1.62	101.0	0.08	4.0	-0.85	3A	AAS
COMLAB	1.0	1.33	2.0	3.00	3.0	0.14	300.0	-3.00	12.0	-0.11	4.0	3.00	2.0	3.00	3.0	3.00	74.0	-3.00	5.0	0.62	3A	AAS
COMLAB	0.6	-0.07	0.8	0.66	3.1	0.63	365.0	-0.99	14.2	-0.19	3.2	0.27	0.7	-0.20	1.5	0.24	97.3	-0.62	4.9	0.47	MAD	AAS
COMLAB	0.2	-1.46	0.3	-1.35	0.8	-3.00	74.1	-3.00	3.3	-3.00	1.1	-3.00	0.8	0.26	1.1	-0.85	20.1	-3.00	1.1	-3.00	4A	AAS
COMLAB	<2.0	blid	<2.0	blid	<2.0	blid	377.0	-0.46	12.0	-2.11	<2.0	blid	<2.0	blid	<2.0	blid	87.0	-2.59	<2.0	blid	4A	ICP-ES
COMLAB	0.6	-0.07	0.5	-0.54	3.1	0.63	336.6	-2.25	15.3	0.78	3.0	-0.50	0.8	0.26	1.3	-0.31	95.1	-1.04	4.5	-0.11	4A	ICP-MS
COMLAB	0.9	0.98	1.8	3.00	2.9	-0.35	395.4	0.36	13.3	-0.97	3.0	-0.50	0.9	0.72	1.4	-0.03	90.5	-1.92	5.4	1.21	4A	ICP-ES
COMLAB	<1.0	blid	<1.0	blid	3.0	0.14	417.0	1.31	15.0	0.52	3.0	-0.50	<1.0	blid	2.0	1.62	106.0	1.04	4.0	-0.85	MAD	ICP,AAS
COMLAB	0.7	0.28	0.8	0.66	3.1	0.63	397.0	0.43	12.6	-1.59	3.2	0.27	0.5	-1.12	1.4	-0.03	96.0	-0.87	4.7	0.18	4A	ICP-ES
COMLAB	<0.1	blid	1.0	1.47	3.0	0.14	290.0	-3.00	14.0	-0.36	3.0	-0.50	1.0	1.18	1.0	-1.13	103.0	0.46	4.0	-0.85	4A	ICP-ES
COMLAB	0.4	-0.80	0.4	-0.86	3.2	1.17	283.1	-3.00	15.2	0.66	3.3	0.55	0.6	-0.66	1.3	-0.20	103.0	0.47	4.4	-0.27	4A	ICP-MS
COMLAB	0.5	-0.42	0.5	-0.54	2.6	-1.83	400.0	0.56	12.3	-1.85	2.8	-1.28	0.5	-1.12	1.2	-0.58	94.1	-1.24	4.0	-0.85	3A	ICP
COMLAB	1.0	1.33	0.9	1.07	3.4	2.11	380.9	-0.29	14.4	-0.01	3.3	0.66	1.1	1.64	1.6	0.52	102.0	0.27	4.5	-0.11	3A	AAS
COMLAB	<5.0	blid	<5.0	blid	<5.0	blid	430.0	1.89	34.5	3.00	5.0	3.00	<5.0	blid	<5.0	blid	112.0	2.18	6.0	2.08	4A	ICP-ES
COMLAB	0.9	0.98	3.5	3.00	4.0	-3.00	413.0	1.14	20.4	3.00	3.5	1.44	1.4	3.00	1.7	0.79	103.6	0.58	8.0	3.00	3A	AAS
COMLAB	0.8	0.63	0.7	0.26	2.8	-0.84	385.0	-0.10	15.1	0.60	3.0	-0.50	0.6	-0.66	1.9	1.34	103.5	0.56	2.9	-2.46	4A	AAS
COMLAB	<3.0	blid	<3.0	blid	4.3	3.00	465.0	3.00	20.0	3.00	4.6	3.00	<3.0	blid	<3.0	blid	120.0	3.00	6.3	2.52	4A	ICP-ES
COMLAB	<0.5	blid	<0.5	blid	3.1	0.63	372.0	-0.68	14.0	-0.36	3.1	-0.11	0.8	0.26	1.3	-0.31	100.0	-0.11	4.1	-0.70	4A	AAS
COMLAB	<0.5	blid	<0.5	blid	3.2	1.12	389.0	0.07	15.0	0.52	3.2	0.27	0.8	0.26	1.4	-0.03	102.0	0.27	4.8	0.33	3A	AAS
COMLAB	<1.0	blid	<1.0	blid	3.0	0.14	390.0	0.12	15.0	0.52	3.0	-0.50	<1.0	blid	1.0	-1.13	107.0	1.23	5.0	0.62	4A	AAS
COMLAB	0.5	-0.42	0.6	-0.14	3.0	0.14	412.2	1.10	15.0	0.52	3.4	1.05	0.7	-0.20	1.3	-0.31	103.6	0.58	5.2	0.91	4A	AAS
COMLAB	0.5	-0.42	0.6	-0.14	2.9	-0.35	385.0	-0.10	14.5	0.08	3.6	1.83	0.6	-0.66	1.2	-0.58	104.0	0.65	4.9	0.47	4A	AAS,ICP
COMLAB	1.0	1.33	1.0	1.47	3.0	0.14	389.0	-0.81	15.0	0.52	4.0	3.00	1.0	1.18	2.0	1.62	100.0	-0.11	4.0	-0.85	4A	ICP
COMLAB	0.5	-0.56	0.4	-0.98	3.3	1.57	398.4	0.49	15.8	1.23	3.5	1.40	0.8	0.21	1.4	-0.03	108.9	1.58	4.5	-0.07	4A	AAS
COMLAB	<0.5	blid	0.6	-0.14	2.8	-0.84	402.0	0.65	14.9	0.43	3.0	-0.50	0.7	-0.20	1.0	-1.13	106.0	1.04	5.4	1.21	4A	ICP-ES
COMLAB	<1.0	blid	<1.0	blid	2.0	-3.00	399.0	0.52	12.0	-2.11	2.0	-3.00	1.0	1.18	1.0	-1.13	101.0	0.08	4.0	-0.85	3A	AAS
COMLAB	<1.0	blid	<1.0	blid	2.9	-0.35	380.0	0.12	15.0	0.52	3.0	-0.50	<1.0	blid	1.1	-0.85	96.0	-0.87	4.6	0.03	MAD	ICP,AAS
COMLAB	0.8	0.63	0.9	1.07	3.4	2.11	360.3	-1.20	14.6	-0.16	3.4	1.05	0.9	0.72	1.7	0.79	98.1	-0.47	4.5	-0.11	4A	ICP-ES
COMLAB	<1.0	blid	<1.0	blid	3.0	0.14	393.0	0.25	14.1	-0.27	3.1	-0.11	<1.0	blid	1.4	-0.03	102.0	0.27	4.0	-0.85	AR,4A	AAS
COMLAB	0.7	0.28	0.7	0.26	2.9	-0.35	381.1	-0.28	13.6	-0.71	2.9	-0.89	0.8	0.26	1.0	-1.13	95.7	-0.93	4.3	-0.41	4A	ICP-ES
COMLAB	0.4	-0.77	0.4	-0.94	3.0	0.14	395.9	0.38	14.5	0.08	3.2	0.27	0.7	-0.20	1.3	-0.31	1					



Copper Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - October 2009

Standard Reference	GBM909-1	GBM909-2	GBM909-3	GBM909-4	GBM909-5	GBM909-6	GBM909-7	GBM909-8	GBM909-9	GBM909-10
MEAN (ppm)	92	97	314	177	925	1445	3115	1454	21	7545
STDEV (ppm)	7	6	18	26	49	74	98	62	3	255
95% CI (ppm)	2	2	4	6	11	16	23	14	1	59
95% CI (%)	1.65%	1.59%	1.30%	3.18%	1.18%	1.12%	0.72%	0.94%	4.03%	0.78%
MIN (ppm)	77	81	263	113	800	1253	2910	1300	13	6912
MEDIAN (ppm)	92	98	314	174	920	1447	3108	1462	21	7570
MAX (ppm)	108	110	362	242	1056	1638	3360	1589	30	8070
IQR (ppm)	8	9	18	39	57	100	123	88	4	313
COUNT	74	69	77	81	78	81	74	78	65	73

Standard Reference	GBM909-1		GBM909-2		GBM909-3		GBM909-4		GBM909-5		GBM909-6		GBM909-7		GBM909-8		GBM909-9		GBM909-10		Method	Reading
	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
ZARAZMA	87	-0.81	87	-1.58	286	-1.55	142	-1.36	855	-1.44	1330	-1.56	3098	-0.18	1318	-2.22	22	0.34	7712	0.65	AR	ICP-ES
COMLAB	92	-0.06	98	0.11	317	0.14	160	-0.66	916	-0.19	1451	0.08	3077	-0.39	1474	0.32	19	-0.54	7625	0.31	4A	ICP-ES
COMLAB	94	0.26	97	0.00	313	-0.07	164	-0.50	931	0.12	1416	-0.40	3030	-0.87	1398	-0.92	31	2.97	7454	-0.36	AR	ICP-MS
COMLAB	94	0.24	97	-0.08	321	0.36	206	1.13	934	0.18	1390	-0.75	3290	1.77	1400	-0.88	19	-0.68	7770	0.88	4A	ICP-MS
COMLAB	95	0.39	99	0.26	307	-0.40	170	-0.27	897	-0.58	1415	-0.41	3072	-0.44	1461	0.11	22	0.34	7720	0.69	4A	AAS
COMLAB	80	-1.86	89	-1.28	328	0.75	199	0.86	967	0.86	1369	-1.03	3286	1.73	1362	-1.50	21	0.05	6912	-2.48	4A	AAS
COMLAB	99	0.99	103	0.80	351	2.00	129	-1.86	988	1.29	1574	1.75	3490	3.00	1580	2.04	22	0.31	8520	3.00	4A	ICP-ES
COMLAB	89	-0.51	99	0.26	326	0.64	200	0.90	916	-0.19	1430	-0.21	3020	0.97	1430	-0.40	20	-0.24	7720	-1.27	4A	ICP-ES
COMLAB	88	-0.66	96	-0.20	307	-0.40	209	1.25	912	-0.27	1440	-0.07	3130	0.15	1480	0.42	22	0.34	7530	-0.06	4A	ICP-ES
COMLAB	84	-1.26	93	-0.66	311	-0.18	145	-1.24	950	0.51	1511	0.89	3109	-0.07	1506	0.84	18	-0.83	7262	-1.11	AR	ICP-ES
COMLAB	97	0.69	96	-0.20	300	-0.81	184	0.28	946	0.43	1455	0.13	3065	-0.51	1493	0.63	27	1.80	7375	-0.67	4A	ICP-ES
COMLAB	96	0.54	101	0.57	314	-0.02	174	-0.11	917	-0.17	1420	-0.34	3150	0.35	1485	0.50	22	0.34	7400	-0.57	4A	AAS
COMLAB	87	-0.81	91	-0.97	313	-0.07	177	0.00	888	-0.76	1350	-1.29	3000	-1.17	1460	0.09	19	-0.54	7210	-1.31	4A	ICP-ES
COMLAB	84	-1.26	92	-0.81	304	-0.57	226	1.91	904	-0.43	1410	-0.48	2970	-1.48	1380	-1.21	18	-0.83	7280	-1.04	4A	ICP-ES
COMLAB	91	-0.21	99	0.26	316	0.09	214	1.45	948	0.47	1495	0.68	3360	2.48	1405	-0.80	17	-1.12	7570	0.10	AR	AAS
COMLAB	90	-0.36	95	-0.35	322	0.42	147	-1.17	919	-0.13	1451	0.08	3266	1.53	1401	-0.87	13	-2.29	7394	-0.59	AR	AAS
COMLAB	88	-0.66	94	-0.51	316	0.09	232	2.15	919	-0.13	1450	0.07	3150	0.35	1435	-0.32	16	-1.41	7420	-0.49	AR	ICP-ES
COMLAB	95	0.39	100	0.42	305	-0.51	155	-0.85	900	-0.52	1500	0.74	3000	-1.17	1500	0.74	18	-0.83	7700	0.61	4A	ICP-ES
COMLAB	96	0.54	100	0.42	316	0.09	150	-1.05	936	0.22	1520	1.02	3130	0.15	1520	1.07	22	0.34	7680	0.53	4A	ICP-ES
COMLAB	87	-0.81	103	0.88	326	0.64	175	-0.07	927	0.04	1425	-0.27	2977	-1.41	1403	-0.84	19	-0.54	7694	0.58	AR	ICP-ES
COMLAB	82	-1.56	90	-1.12	326	0.64	172	-0.19	918	-0.15	1441	-0.06	3172	0.57	1420	-0.56	22	0.34	7563	0.07	3A	ICP
COMLAB	96	0.54	122	3.00	318	0.20	170	-0.27	885	-0.82	1375	-0.95	3053	-0.63	1345	-1.78	106	3.00	7273	-1.06	3A	AAS
COMLAB	97	0.69	104	1.03	319	0.25	181	0.16	910	-0.31	1489	0.59	3147	0.32	1490	0.58	23	0.63	7545	0.00	MAD	AAS
COMLAB	89	-0.51	94	-0.51	311	-0.18	164	-0.50	911	-0.29	1435	-0.14	3089	-0.27	1439	-0.25	19	-0.54	7488	-0.22	AR	ICP-ES
COMLAB	17	-3.00	19	3.00	59	-3.00	27	-3.00	169	-3.00	267	-3.00	587	-3.00	271	-3.00	3	3.00	1480	-3.00	4A	AAS
COMLAB	84	-1.26	87	-1.58	309	-0.29	171	-0.23	920	-0.11	1399	-0.63	3067	-0.49	1411	-0.71	26	1.51	8428	3.00	AR	ICP-ES
COMLAB	92	-0.06	99	0.26	306	-0.46	193	0.63	913	-0.25	1416	-0.40	3004	-1.13	1436	-0.30	49	3.00	7050	-1.94	4A	ICP-ES
COMLAB	125	3.00	110	1.96	341	1.46	182	0.20	994	1.41	1523	1.06	3488	3.00	1549	1.54	22	0.34	8313	3.00	4A	ICP-ES
COMLAB	211	3.00	136	3.00	353	2.12	254	3.00	956	0.63	1555	1.49	3202	0.88	1533	1.28	64	3.00	7608	0.25	MAD	ICP,AAS
COMLAB	96	0.54	103	0.88	308	-0.35	159	-0.70	920	-0.11	1468	0.31	3207	0.93	1504	0.81	26	1.51	7991	1.75	4A	ICP-ES
COMLAB	96	0.54	105	1.19	340	1.41	187	0.39	1010	1.74	1500	0.74	3320	2.08	1460	0.09	23	0.63	7720	0.69	AR	ICP-ES
COMLAB	90	-0.36	104	1.03	298	-0.90	153	-0.93	902	-0.47	1349	-1.30	2975	-1.43	1343	-1.81	21	0.05	7048	-1.95	4A	ICP-MS
COMLAB	96	0.54	93	-0.66	307	-0.40	166	-0.82	960	0.72	1417	-0.38	3109	-0.07	1470	0.25	16	-1.41	7478	-0.26	4A	ICP-ES
COMLAB	99	0.95	106	1.34	345	1.68	158	-0.74	969	0.90	1535	1.22	3313	2.01	1525	1.15	18	-0.74	8321	3.00	3A	ICP
COMLAB	103	1.60	117	3.00	304	-0.57	190	0.51	897	-0.58	1397	-0.65	3078	-0.38	1417	-0.61	26	1.51	7355	-0.74	3A	AAS
COMLAB	114	3.00	121	3.00	338	1.30	172	-0.19	970	0.92	1500	0.74	2930	-1.88	1500	0.74	52	3.00	7700	0.61	AR	ICP
COMLAB	35	-3.00	23	-3.00	164	-3.00	206	1.13	721	-3.00	1253	-2.61	3102	-0.14	257	-3.00	13	-2.29	10520	3.00	FUS	ICP
COMLAB	92	-0.06	102	0.73	338	1.30	188	0.43	972	0.96	1573	1.73	3042	-0.75	1467	0.20	21	0.05	7527	-0.07	3A	AAS
COMLAB	84	-1.26	93	-0.66	300	-0.79	156	-0.82	886	-0.80	1413	-0.44	3075	-0.41	1437	-0.28	21	0.05	7613	0.27	3A	AAS
COMLAB	122	3.00	145	3.00	343	1.57	200	0.90	984	1.21	1541	1.30	3429	3.00	1644	3.00	36	3.00	8050	1.98	4A	ICP-ES
COMLAB	105	1.90	104	1.03	316	0.09	157	-0.78	870	-1.13	1540	1.29	3200	0.86	1510	0.90	25	1.22	7700	0.61	3A	AAS
COMLAB	90	-0.36	90	-1.12	310	-0.24	170	-0.27	970	0.92	1500	0.74	3200	0.86	1500	0.74	20	-0.24	7800	1.00	3A	AAS
COMLAB	101	1.29	108	1.65	317	0.14	215	1.48	950	0.51	1485	0.54	3072	-0.44	1479	0.40	23	0.63	7282	-1.03	4A	AAS
COMLAB	94	0.24	98	0.11	303	-0.62	174	-0.11	881	-0.91	1426	-0.26	3050	-0.66	1431	-0.38	21	0.05	7754	0.82	4A	AAS
COMLAB	97	0.69	106	1.34	326	0.64	187	0.39	930	1.10	1480	0.47	3160	0.45	1510	0.90	28	2.09	7860	1.23	4A	AAS
COMLAB	106	2.05	97	-0.04	291	-1.28	170	-0.27	878	-0.97	1388	-0.78	2964	-1.54	1392	-1.01	19	-0.54	7384	-0.63	4A	ICP-ES
COMLAB	95	0.42	107	1.49	312	-0.13	172	-0.19	924	-0.02	1529	1.14	3053	-0.63	1452	-0.04	19	-0.68	7452	-0.36	FUS	ICP-ES
COMLAB	92	-0.06	105	1.19	321	0.36	204	1.06	1010	1.74	1510	0.88	3020	-0.97	1560	1.72	44	3.00	7300	-0.96	4A	ICP-ES
COMLAB	94	0.24	103	0.88	312	-0.13																



Nickel Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - October 2009

Standard Reference	GBM909-1	GBM909-2	GBM909-3	GBM909-4	GBM909-5	GBM909-6	GBM909-7	GBM909-8	GBM909-9	GBM909-10
MEAN (ppm)	30	31	22	13	33	1774	168	1321	12	25
STDEV (ppm)	3	3	3	4	6	102	9	59	4	4
95% CI (ppm)	1	1	1	1	1	24	2	14	1	1
95% CI (%)	2.29%	2.56%	3.47%	6.69%	4.41%	1.34%	1.24%	1.07%	7.41%	4.03%
MIN (ppm)	24	24	15	4	20	1492	149	1179	5	14
MEDIAN (ppm)	30	30	22	14	33	1754	168	1330	13	25
MAX (ppm)	37	39	28	21	47	2000	190	1460	22	36
IQR (ppm)	4	3	4	6	9	126	11	64	6	6
COUNT	63	63	65	67	70	72	67	67	65	71

Standard Reference	GBM909-1		GBM909-2		GBM909-3		GBM909-4		GBM909-5		GBM909-6		GBM909-7		GBM909-8		GBM909-9		GBM909-10		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
BECQUEREL-NAA	30	-0.05	30	-0.26	25	1.06	15	0.57	40	1.07	1750	-0.23	190	2.53	1350	0.50	15	0.68	25	-0.09	NAA	
ZARAZMA	28	-0.77	30	-0.26	22	0.08	16	0.85	35	0.27	1803	0.29	168	-0.03	1340	0.32	19	1.75	28	0.60	AR	ICP-ES
COMLAB	30	-0.05	31	0.06	21	-0.24	16	0.85	33	-0.05	1796	0.22	171	0.32	1377	0.96	15	0.68	24	-0.32	4A	ICP-ES
COMLAB	31	0.24	34	0.85	25	1.09	15	0.63	41	1.15	1902	1.26	192	2.72	1418	1.65	15	0.68	27	0.30	4A	ICP-MS
COMLAB	35	1.79	35	1.32	28	2.16	16	0.96	47	2.25	1810	0.36	202	3.00	1400	1.35	15	0.74	30	1.06	4A	ICP-MS
COMLAB	31	0.31	30	-0.26	22	0.08	13	0.01	32	-0.21	1696	-0.76	165	-0.37	1215	-1.81	13	0.15	24	-0.32	4A	AAS
COMLAB	28	-0.77	31	0.06	23	0.41	14	0.29	31	-0.37	1758	-0.15	172	0.44	1282	-0.66	15	0.68	23	-0.54	4A	AAS
COMLAB	32	0.49	37	2.01	24	0.70	32	3.00	38	0.67	2000	2.22	179	1.22	1500	3.00	18	1.56	28	0.62	4A	ICP-ES
COMLAB	30	-0.05	34	1.00	26	1.38	13	0.01	34	0.11	1720	-0.53	170	0.21	1275	-0.78	15	0.68	25	-0.09	4A	ICP-ES
COMLAB	28	-0.77	29	-0.58	20	-0.57	12	-0.27	34	0.11	1710	-0.63	165	-0.37	1300	-0.36	11	-0.38	29	0.83	4A	ICP-ES
COMLAB	28	-0.77	28	-0.89	19	-0.89	7	-1.66	29	-0.69	1738	-0.35	170	0.21	1342	0.36	7	-1.44	20	-1.23	AR	ICP-ES
COMLAB	32	0.67	30	-0.26	23	0.41	11	-0.54	33	-0.05	1786	0.12	170	0.21	1336	0.26	11	-0.38	24	-0.32	4A	ICP-ES
COMLAB	37	2.47	27	-1.21	20	-0.57	12	-0.27	41	1.23	1850	0.75	167	-0.14	1330	0.15	12	-0.11	24	-0.32	4A	AAS
COMLAB	30	-0.05	28	-0.89	24	0.73	15	0.57	34	0.11	1700	-0.72	158	-1.19	1300	-0.36	15	0.68	25	-0.09	4A	ICP-ES
COMLAB	30	-0.05	32	0.37	23	0.41	16	0.85	37	0.59	1710	-0.63	168	-0.03	1250	-1.21	13	0.15	27	0.37	4A	ICP-ES
COMLAB	26	-1.49	25	-1.84	17	-1.54	8	-1.38	24	-1.49	1645	-1.26	161	-0.84	1235	-1.47	8	-1.18	19	-1.46	AR	AAS
COMLAB	30	-0.05	29	-0.58	17	-1.54	11	-0.54	28	-0.85	1788	0.14	176	0.90	1336	0.26	7	-1.44	20	-1.23	AR	AAS
COMLAB	30	-0.05	30	-0.26	25	1.06	14	0.29	39	0.91	1645	-1.26	173	0.55	1305	-0.27	15	0.68	24	-0.32	4A	ICP-ES
COMLAB	31	0.31	30	-0.26	23	0.41	14	0.29	35	0.27	1900	1.24	165	-0.37	1300	-0.36	14	0.42	27	0.37	4A	ICP-ES
COMLAB	32	0.67	34	1.00	24	0.73	14	0.29	38	0.75	1880	1.04	178	1.13	1350	0.50	16	0.95	30	1.06	4A	ICP-ES
COMLAB	30	-0.05	32	0.37	18	-1.22	9	-1.10	26	-1.17	1727	-0.46	162	-0.72	1274	-0.80	9	-0.91	20	-1.23	AR	ICP-ES
COMLAB	34	1.39	36	1.63	25	1.06	11	-0.54	40	1.07	1973	1.96	186	2.06	1438	2.00	11	-0.38	29	0.83	3A	ICP
COMLAB	32	0.67	36	1.63	23	0.41	12	-0.27	35	0.27	1866	-0.06	176	0.90	1257	-1.09	12	-0.11	31	1.29	3A	AAS
COMLAB	28	-0.77	28	-0.89	22	0.08	13	0.01	33	-0.05	1769	-0.05	159	-1.07	1335	0.24	14	0.42	23	-0.54	MAD	AAS
COMLAB	26	-1.49	29	-0.58	15	-2.19	7	-1.66	25	-1.33	1734	-0.39	164	-0.49	1289	-0.54	6	-1.71	17	-1.92	AR	ICP-ES
COMLAB	65	3.00	70	3.00	21	-0.24	17	1.13	54	3.00	2149	3.00	201	3.00	1633	3.00	21	2.28	31	1.29	4A	ICP-ES
COMLAB	35	1.75	37	1.95	20	-0.57	11	-0.54	31	-0.37	1559	-2.11	159	-1.07	1207	-1.94	10	-0.65	23	-0.54	AR	ICP-ES
COMLAB	32	0.67	102	3.00	31	3.00	15	0.57	39	0.91	1747	-0.26	175	0.79	1315	-0.10	16	0.95	30	1.06	4A	ICP-ES
COMLAB	29	-0.41	28	-0.89	21	-0.24	13	0.01	33	-0.05	1643	-1.28	163	-0.61	1209	-1.91	11	-0.38	26	0.14	4A	ICP-ES
COMLAB	37	2.47	30	-0.26	32	3.00	16	0.85	42	1.40	1870	0.94	180	1.37	1401	1.36	27	3.00	24	-0.32	MAD	ICP,AAS
COMLAB	31	0.31	32	0.37	22	0.08	14	0.29	36	0.43	1730	-0.43	164	-0.49	1344	0.39	14	0.42	25	-0.09	4A	ICP-ES
COMLAB	32	0.67	34	1.00	20	-0.57	9	-1.10	31	-0.37	1850	0.75	183	1.71	1350	0.50	9	-0.91	27	0.37	AR	ICP-ES
COMLAB	29	-0.33	44	3.00	28	2.04	18	1.32	36	0.48	1589	-1.82	161	-0.84	1191	-2.22	13	0.07	26	0.13	4A	ICP-MS
COMLAB	34	1.39	28	-0.89	22	0.08	15	0.57	40	1.07	1820	0.45	176	0.90	1364	0.73	15	0.68	24	-0.32	4A	ICP-ES
COMLAB	29	-0.41	30	-0.26	22	0.08	12	-0.27	34	0.11	1931	1.54	161	-0.84	1179	-2.42	12	-0.11	24	-0.32	3A	ICP
COMLAB	28	-0.77	30	-0.26	20	-0.57	14	0.29	27	-1.01	1728	-0.45	166	-0.26	1330	0.15	14	0.42	19	-1.46	3A	AAS
COMLAB	<10	bid	<10	bid	<10	bid	<10	bid	<10	bid	2000	2.22	<10	bid	1400	1.35	<10	bid	<10	bid	AR	ICP-ES
COMLAB	63045	3.00	55565	3.00	39348	3.00	40665	3.00	19258	3.00	56505	3.00	38539	3.00	32529	3.00	35512	3.00	29594	3.00	FUS	ICP
COMLAB	11	-3.00	19	-3.00	11	-3.00	4	-2.49	21	-1.97	1865	0.90	168	-0.03	1357	0.61	5	-1.98	8	-3.00	3A	AAS
COMLAB	35	1.75	46	3.00	26	1.38	15	0.57	32	-0.21	1715	-0.58	170	0.21	1285	-0.61	22	2.54	30	1.06	3A	AAS
COMLAB	72	3.00	74	3.00	80	3.00	66	3.00	43	1.56	1701	-0.71	207	3.00	1307	-0.24	27	3.00	35	2.21	4A	ICP-ES
COMLAB	39	3.00	39	2.58	16	-1.86	16	0.85	35	0.27	1770	-0.04	174	0.67	1370	0.84	9	-0.91	31	1.29	3A	AAS
COMLAB	30	-0.05	30	-0.26	20	-0.57	<20	bid	30	-0.53	1900	1.24	160	-0.95	1300	-0.36	<20	bid	20	-1.23	3A	AAS
COMLAB	33	1.03	31	0.06	25	1.06	16	0.85	42	1.40	1785	0.11	171	0.32	1383	1.06	15	0.68	25	-0.09	4A	AAS
COMLAB	28	-0.77	29	-0.58	22	0.08	14	0.29	34	0.11	1731	-0.42	164	-0.49	1277	-0.75	13	0.15	25	-0.09	4A	AAS
COMLAB	30	-0.05	30	-0.26	23	0.41	18	1.41	37	0.59	1950	1.73	171	0.32	1460	2.37	13	0.15	27	0.37	4A	AAS
COMLAB	43	3.00	29	-0.58	23	0.41	21	2.24	36	0.43	1725	-0.48	171	0.32	1298	-0.39	15	0.68	24	-0.32	4A	ICP-ES
COMLAB	32	0.70	31	-0.03	22	-0.05	15	0.57	40	1.15	1951	1.74	181	1.48	1335	0.24	16	1.01	28	0.80	FUS	ICP-ES
COMLAB	42	3.00	75	3.00	28	2.03	19	1.68	46	2.04	1770	-0.04	155	-1.53	1270	-0.87	17	1.21	30	1.06	4A	ICP-ES
COMLAB	36	2.11	38	2.27	23	0.41	15	0.57	34	0.11	1880	1.04	159	-1.07	1420	1.69	16	0.95	27	0.37		

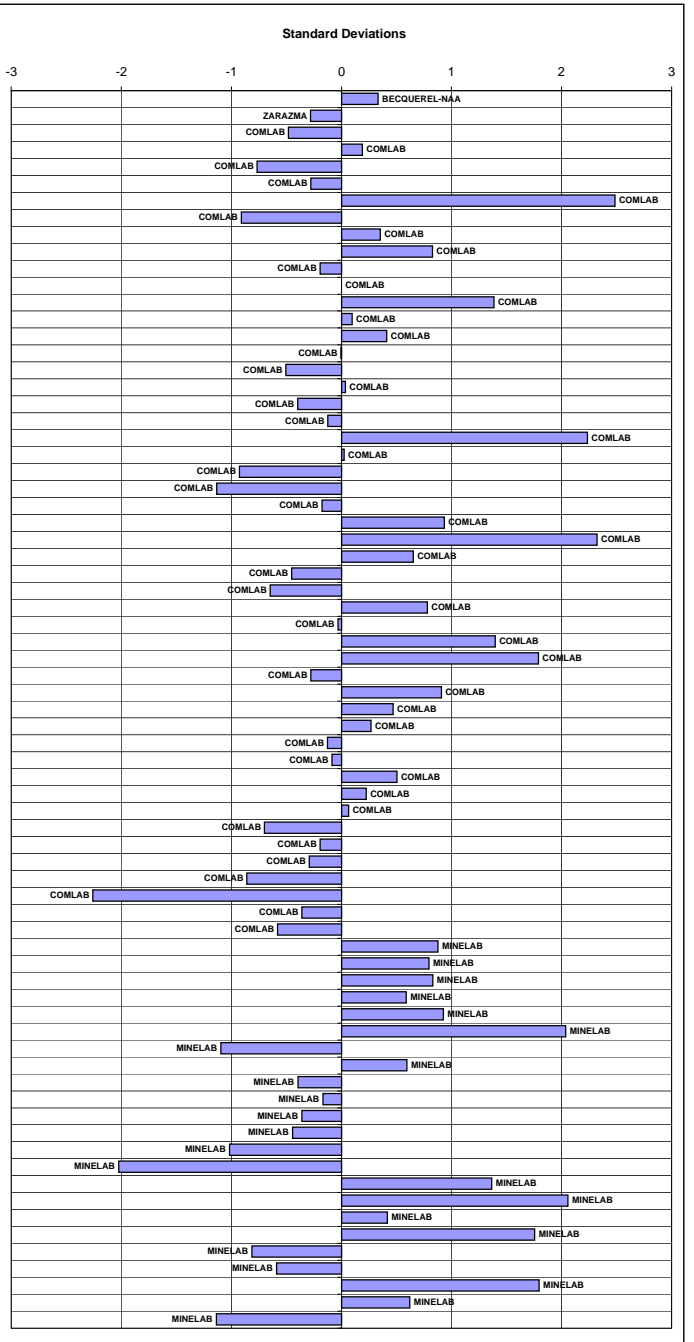
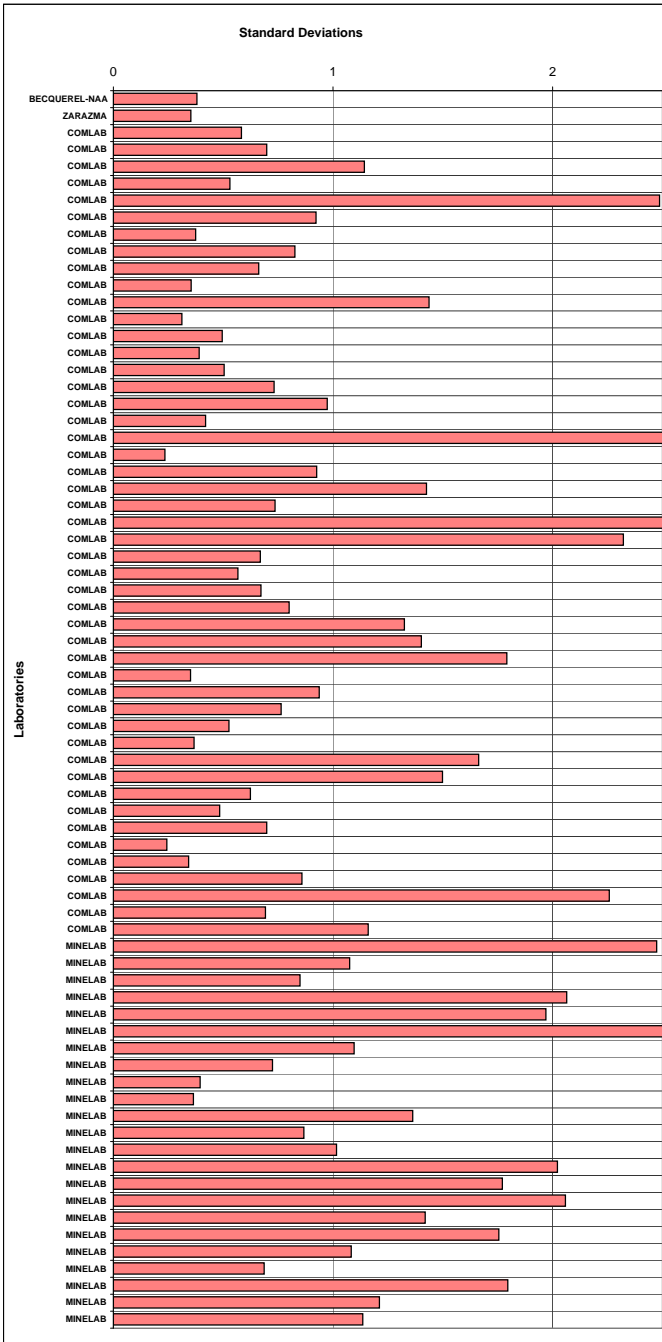




## Arsenic Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - October 2009

Standard Reference	GBM909-1	GBM909-2	GBM909-3	GBM909-4	GBM909-5	GBM909-6	GBM909-7	GBM909-8	GBM909-9	GBM909-10
MEAN (ppm)	110	124	33	9	40	932	1972	556	3	250
STDEV (ppm)	7	8	5	3	5	55	113	42	2	25
95% CI (ppm)	2	2	1	1	1	13	27	10	1	6
95% CI (%)	1.62%	1.63%	3.90%	9.22%	3.29%	1.43%	1.39%	1.84%	43.64%	2.42%
MIN (ppm)	94	109	22	4	29	803	1686	440	0	185
MEDIAN (ppm)	110	123	32	9	40	934	1980	554	3	250
MAX (ppm)	126	141	45	15	53	1076	2279	652	8	312
IQR (ppm)	9	11	6	3	5	63	137	55	4	28
COUNT	54	60	54	42	53	66	67	66	14	68

Standard Reference	GBM909-1		GBM909-2		GBM909-3		GBM909-4		GBM909-5		GBM909-6		GBM909-7		GBM909-8		GBM909-9		GBM909-10		Method	Reading
	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
Lab Reference																						
BECQUEREL-NAA	113	0.46	126	0.25	34	0.18	9	-0.21	43	0.54	960	0.51	2000	0.25	575	0.46	<0.5	blid	265	0.57	NAA	
ZARAZMA	111	0.09	125	0.18	33	0.05	7	-0.79	38	-0.46	927	-0.10	1906	-0.58	537	-0.44	1	-0.73	239	-0.47	AR	ICP-ES
COMLAB	113	0.46	123	-0.13	32	-0.24	7	-0.76	35	-1.10	893	-0.71	1914	-0.51	508	-1.14	<5	blid	245	-0.22	4A	ICP-ES
COMLAB	113	0.46	128	0.48	44	2.30	8	-0.50	44	0.70	929	-0.06	1978	0.06	527	-0.70	<0.5	blid	224	-1.03	4A	ICP-MS
COMLAB	108	-0.30	127	0.38	38	1.05	9	-0.21	29	-2.30	803	-2.36	1760	-1.87	490	-1.57	1	-1.03	257	0.26	4A	ICP-MS
COMLAB	113	0.46	122	-0.25	29	-0.86	<20	blid	31	-1.91	940	0.14	2018	0.41	551	-0.12	<20	blid	248	-0.10	4A	AAS
COMLAB	136	3.00	148	3.00	71	3.00	22	3.00	69	3.00	1076	2.62	2279	2.71	606	1.19	66	3.00	272	0.85	4A	AAS
COMLAB	109	-0.15	123	-0.13	30	-0.59	7	-0.90	32	-1.69	875	-1.04	1860	-0.98	440	-2.76	1	-0.99	252	0.06	4A	ICP-ES
COMLAB	116	0.91	128	0.50	38	1.01	10	0.34	41	0.73	946	0.25	1930	0.07	558	0.05	<5	blid	248	-0.10	4A	ICP-ES
COMLAB	117	1.06	127	0.38	40	1.43	15	2.17	44	0.74	947	0.27	2030	0.51	580	0.57	<5	blid	258	0.30	4A	ICP-ES
COMLAB	106	-0.60	118	-0.76	31	-0.45	6	-1.12	41	0.13	978	0.84	2049	0.68	575	0.46	<2	blid	227	-0.93	AR	ICP-ES
COMLAB	111	0.15	121	-0.38	31	-0.45	8	-0.39	42	0.34	957	0.45	2006	0.30	571	0.36	<5	blid	241	-0.37	4A	ICP-ES
COMLAB	160	3.00	140	2.02	60	3.00	10	0.34	60	3.00	930	-0.04	1950	-0.19	580	0.57	10	3.00	270	0.77	4A	AAS
COMLAB	114	0.61	126	0.25	32	-0.24	10	0.34	40	-0.07	912	-0.37	1940	-0.28	572	0.38	<5	blid	257	0.26	4A	ICP-ES
COMLAB	114	0.61	128	0.50	38	1.01	10	0.34	43	0.54	947	0.27	2020	0.43	540	-0.38	<5	blid	260	0.38	4A	ICP-ES
COMLAB	108	-0.30	123	-0.13	34	0.18	nr	nr	43	0.54	940	0.14	2050	0.69	553	-0.07	nr	nr	223	-1.08	AR	ICP-ES
COMLAB	110	0.00	115	-1.13	30	-0.65	8	-0.39	40	-0.07	850	-1.50	1900	-0.63	550	-0.14	<3	blid	250	-0.02	4A	ICP-ES
COMLAB	112	0.31	133	1.13	36	0.60	8	-0.39	44	0.74	850	-1.50	1830	-1.25	560	0.10	<1	blid	265	0.57	4A	ICP-MS
COMLAB	105	-0.75	119	-0.63	43	2.05	8	-0.39	43	0.54	897	-0.64	1780	-1.69	508	-1.14	<1	blid	227	-0.93	AR	ICP-ES
COMLAB	111	0.15	126	0.25	30	-0.65	10	0.34	40	-0.07	950	0.33	2002	0.27	536	-0.47	<10	blid	219	-1.24	3A	ICP
COMLAB	179	3.00	165	3.00	103	3.00	34	3.00	100	3.00	1033	1.84	1807	-1.45	652	2.29	42	3.00	312	2.43	3A	AAS
COMLAB	113	0.46	127	0.38	30	-0.65	<25	blid	40	-0.07	926	-0.11	1983	0.10	556	0.00	<25	blid	253	0.10	MAD	AAS
COMLAB	102	-1.21	116	-1.01	31	-0.45	7	-0.76	40	-0.07	880	-0.95	1871	-0.89	502	-1.28	<5	blid	207	-1.72	AR	ICP-ES
COMLAB	101	-1.36	109	-1.89	15	-3.00	<10	blid	25	-3.00	936	0.07	2097	1.10	552	-0.09	<10	blid	228	-0.89	AR	ICP-ES
COMLAB	109	-0.15	122	-0.25	35	0.39	14	1.81	42	0.34	891	-0.75	1756	-1.90	524	-0.76	2	-0.38	243	-0.29	4A	ICP-MS
COMLAB	182	3.00	192	3.00	48	3.00	18	3.00	46	1.15	746	-3.00	1774	-1.74	406	-3.00	18	3.00	378	3.00	4A	ICP-ES
COMLAB	183	3.00	164	3.00	75	3.00	34	3.00	74	3.00	1031	1.80	2084	0.99	626	1.67	29	3.00	287	1.44	MAD	ICP-AAS
COMLAB	115	0.76	125	0.13	40	1.43	10	0.34	49	1.77	965	0.60	1990	0.16	553	-0.07	6	1.34	270	0.77	4A	ICP-ES
COMLAB	109	-0.15	122	-0.25	30	-0.65	7	-0.76	42	0.34	863	-1.26	1990	0.16	492	-1.52	<2	blid	251	0.02	AR	ICP-ES
COMLAB	105	-0.81	117	-0.83	30	-0.61	7	-0.68	41	0.11	882	-0.91	1897	-0.66	512	-1.03	0	-1.12	240	-0.40	4A	ICP-MS
COMLAB	124	2.12	129	0.63	36	0.60	14	1.81	46	1.15	928	-0.08	1970	-0.01	579	0.55	5	0.91	257	0.26	4A	ICP-ES
COMLAB	104	-0.90	117	-0.88	31	-0.36	7	-0.65	37	-0.79	1021	1.62	1686	-2.52	756	3.00	<0.5	blid	281	1.21	3A	ICP
COMLAB	138	3.00	148	3.00	38	1.01	9	-0.02	45	0.95	978	0.84	2007	0.31	630	1.76	2	-0.38	294	1.72	3A	AAS
COMLAB	136	3.00	137	1.64	39	1.22	15	2.17	53	2.58	997	1.18	2060	0.30	626	1.67	<10	blid	310	2.35	4A	ICP-ES
COMLAB	110	0.00	120	-0.50	34	0.18	6	-1.12	40	-0.07	940	0.14	2050	-0.10	530	-0.62	<2	blid	240	-0.41	3A	AAS
COMLAB	115	0.76	130	0.76	40	1.43	18	3.00	50	1.97	932	0.00	1958	-0.12	560	0.10	<15	blid	258	0.30	4A	AAS
COMLAB	115	0.76	135	1.39	36	0.60	9	-0.02	34	-1.30	979	0.85	2040	0.60	595	0.93	<1	blid	261	0.42	4A	ICP
COMLAB	118	1.21	130	0.76	30	-0.65	9	-0.02	38	-0.48	959	0.49	2022	0.44	568	0.29	<1	blid	260	0.38	4A	ICP
COMLAB	106	-0.57	116	-1.06	33	0.01	8	-0.43	42	0.36	959	0.49	1995	0.21	557	0.03	1	-0.75	246	-0.17	FUS	ICP
COMLAB	104	-0.90	98	-3.00	23	-2.11	4	-1.85	58	3.00	1030	1.78	2040	0.60	607	1.22	<3	blid	263	0.50	4A	ICP-ES
COMLAB	140	3.00	110	-1.76	<50	blid	<50	blid	900	-0.59	1900	-0.63	600	1.05	<50	blid	300	1.96	MAD	ICP-AAS		
COMLAB	108	-0.30	125	0.13	35	0.39	14	1.81	44	0.74	896	-0.66	2058	0.76	553	-0.07	3	0.05	231	-0.77	AR	ICP-ES
COMLAB	118	1.21	132	1.01	31	-0.45	8	-0.39	40	-0.07	936	0.07	1992	0.18	527	-0.69	<1.5	blid	243	-0.29	AR,4A	ICP-ES
COMLAB	106	-0.60	116	-1.01	29	-0.86	<5	blid	34	-1.30	895	-0.68	1928	-0.38	525	-0.73	<5	blid	250	-0.02	4A	ICP-ES
COMLAB	108	-0.30	121	-0.38	32	-0.24	8	-0.39	41	0.13	935	0.05	1977	0.05	552	-0.09	<5	blid	236	-0.57	AR	ICP-ES
COMLAB	109	-0.15	122	-0.25	31	-0.45	7	-0.76	38	-0.48	936	0.07	1989	0.15	542	-0.33	<5	blid	239	-0.45	AR	ICP-ES
COMLAB	101	-1.36	116	-1.01	27	-1.28	7	-0.76	37	-0.69	920	-0.22	1933	-0.34	519	-0.88	<5	blid	220	-1.20	AR	ICP-ES
COMLAB	82	-3.00	91	-3.00	33	-0.03	<1	blid	34	-1.30	837	-1.74	1457	-3.00	349	-3.00	14	3.00	140	-3.00	3A	AAS
COMLAB	115	0.76	123	-0.13	28	-1.07	11	0.71	38	-0.48	845	-1.59	1976	0.04	520	-0.85	3	0.05	235	-0.61	AR	AAS
COMLAB	94	-2.42	116	-1.01	35	0.39	<10	blid	46	1.15	703	-3.00	2060	0.78	539	-0.40	<10	blid	247	-0.14		
MINELAB	272	-3.00	160	3.00	1948	3.00	51	3.00	80	3.00	867	-1.19	70	-3.00	559	0.08	41	3.00	125	-3.00	4A	ICP-ES
MINELAB	103	-1.06	131	0.88	45	2.47	9	-0.02	72	3.00	953	0.38	2034									



Laboratories

# Ore Grade Copper Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - October 2009

Standard Reference	GBM909-11	GBM909-12	GBM909-13	GBM909-14	GBM909-15	GBM909-16
MEAN (ppm)	5344	10830	32093	21898	13097	15355
STDEV (ppm)	195	339	1295	842	397	468
95% CI (ppm)	45	77	287	188	92	107
95% CI (%)	0.83%	0.71%	0.90%	0.86%	0.71%	0.69%
MIN (ppm)	4890	10100	29052	19600	12200	14300
MEDIAN (ppm)	5305	10800	31970	21900	13090	15382
MAX (ppm)	5890	11742	35600	24000	14188	16667
IQR (ppm)	263	400	1659	1000	553	600
COUNT	75	75	79	78	72	75

Standard Reference	GBM909-11		GBM909-12		GBM909-13		GBM909-14		GBM909-15		GBM909-16		Method	Reading
	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
ZARAZMA	5137	-1.06	11280	1.33	31776	-0.24	22298	0.48	13280	0.46	15791	0.93	AR	ICP-ES
COMLAB	5460	0.59	10970	0.41	32850	0.58	22260	0.43	13270	0.44	15350	-0.01	AR	ICP-ES
COMLAB	4940	-2.07	10700	-0.38	34900	2.17	23400	1.78	13600	1.27	15200	-0.33	4A	ICP-ES
COMLAB	5300	-0.23	10700	-0.38	31300	-0.61	21500	-0.47	12800	-0.75	15300	-0.12	4A	AAS
COMLAB	5280	-0.33	11100	0.80	31000	-0.84	21300	-0.71	13100	0.01	15100	-0.54	AR	AAS
COMLAB	5660	1.62	11690	2.54	35600	2.71	23450	1.84	14300	3.00	15700	0.74	FUS	ICP-ES
COMLAB	5370	0.13	10800	-0.09	32800	0.55	21800	-0.12	13350	0.64	15800	0.95	4A	ICP-ES
COMLAB	5470	0.65	11000	0.50	33100	0.78	22600	0.83	13750	1.64	16150	1.70	4A	ICP-ES
COMLAB	5270	-0.38	11100	0.80	32500	0.31	22200	0.36	13300	0.51	16000	1.38	4A	ICP-ES
COMLAB	5200	-0.74	10800	-0.09	31700	-0.30	22000	0.12	13450	0.89	15150	-0.44	4A	AAS
COMLAB	5300	-0.23	10800	-0.09	31900	-0.15	21800	-0.12	13050	-0.12	15200	-0.33	4A	AAS
COMLAB	5370	0.13	10750	-0.24	32000	-0.07	21900	0.00	13450	0.89	15400	0.10	4A	ICP-ES
COMLAB	6060	3.00	11550	2.12	33400	1.01	22200	0.36	12450	-1.63	15100	-0.54	AR	AAS
COMLAB	5300	-0.23	10800	-0.09	31800	-0.23	21800	-0.12	12700	-1.00	14900	-0.97	AR	AAS
COMLAB	5400	0.29	10700	-0.38	33100	0.78	22100	0.24	13100	0.01	15700	0.74	4A	AAS
COMLAB	5400	0.29	10900	0.21	32700	0.47	22650	0.89	13500	1.01	16000	1.38	4A	ICP-ES
COMLAB	5390	0.24	10700	-0.38	32400	0.24	21900	0.00	13300	0.51	15600	0.52	4A	ICP-ES
COMLAB	5235	-0.56	10929	0.29	32091	0.00	22719	0.98	12721	-0.95	15554	0.43	AR	ICP-ES
COMLAB	5890	2.80	11500	1.98	33400	1.01	22700	0.95	13600	1.27	15700	0.74	3A	ICP
COMLAB	5700	1.82	11600	2.27	33200	0.85	22900	1.19	12800	-0.75	15100	-0.54	FUS	XRF
COMLAB	5200	-0.74	10500	-0.98	30800	-1.00	21100	-0.95	12900	-0.50	15100	-0.54	MAD	AAS,CLAS
COMLAB	5050	-1.51	10620	-0.62	31200	-0.69	21400	-0.59	12680	-1.05	15130	-0.48	4A	AAS
COMLAB	5248	-0.49	10600	-0.68	31200	-0.69	21000	-1.07	13300	0.51	15400	0.10	4A	ICP-ES
COMLAB	6200	3.00	12600	3.00	31500	-0.46	24000	2.50	16100	3.00	18500	3.00	4A	ICP-ES
COMLAB	5368	0.12	10947	0.34	32206	0.09	21940	0.05	13370	0.69	15425	0.15	MAD	ICP, AAS
COMLAB	5100	-1.25	10100	-2.16	29500	-2.00	19600	-2.73	12200	-2.26	14300	-2.25	4A	AAS
COMLAB	5500	0.80	10700	-0.38	32500	0.31	22000	0.12	12800	-0.75	15400	0.10	3A	ICP-ES
COMLAB	4738	-3.00	9721	-3.00	29052	-2.35	24441	3.00	12516	-1.46	14339	-2.17	4A	ICP-ES
COMLAB	5050	-1.51	10530	-0.89	31970	-0.09	22630	0.87	13420	0.81	15420	0.14	4A	ICP-ES
COMLAB	5162	-0.93	10851	0.06	34670	1.99	22891	1.18	13323	0.57	16272	1.96	AR	ICP-ES
COMLAB	5361	0.09	10548	-0.83	31319	-0.60	21506	-0.47	12666	-1.09	14399	-2.04	4A	AAS
COMLAB	5400	0.29	11100	0.80	33000	0.70	22600	0.83	13600	1.27	16200	1.81	AR	ICP-ES
COMLAB	7268	3.00	17003	3.00	57308	3.00	37278	3.00	21734	3.00	25456	3.00	FUS	ICP
COMLAB	5514	0.87	10960	0.38	32680	0.45	22280	0.45	12880	-0.55	14510	-1.80	3A	AAS
COMLAB	5220	-0.63	12526	3.00	32867	0.60	22500	0.72	13200	0.26	15700	0.74	3A	AAS
COMLAB	5300	-0.23	10500	-0.98	30500	-1.23	21000	-1.07	11400	-3.00	13900	-3.00	4A	ICP-ES
COMLAB	5600	1.31	10800	-0.09	31000	-0.84	21400	-0.59	12700	-1.00	15700	0.74	3A	AAS
COMLAB	5700	1.82	11100	0.80	32100	0.01	21900	0.00	13400	0.76	15600	0.52	4A	AAS
COMLAB	5540	1.00	10900	0.21	32010	-0.06	21420	-0.57	13360	0.66	15420	0.14	4A	AAS
COMLAB	5300	-0.23	11200	1.09	33000	0.70	21900	0.00	13200	0.26	15500	0.31	4A	AAS
COMLAB	5250	-0.48	10800	-0.09	30800	-1.00	21300	-0.71	12500	-1.50	14800	-1.19	4A	AAS
COMLAB	5248	-0.49	10740	-0.27	30890	-0.93	20660	-1.47	13010	-0.22	15210	-0.31	4A	ICP-ES
COMLAB	5200	-0.74	10800	-0.09	31500	-0.46	21500	-0.47	12800	-0.75	15400	0.10	3A	ICP-ES
COMLAB	5590	1.26	11000	0.50	31200	-0.69	21300	-0.71	12800	-0.75	14900	-0.97	3A,4A	AAS
COMLAB	4540	-3.00	9160	-3.00	30600	-1.15	19900	-2.37	12900	-0.50	15500	0.31	FUS	XRF
COMLAB	5019	-1.66	10335	-1.46	33295	0.93	22133	0.28	12855	-0.61	15645	0.62	4A	ICP-ES
COMLAB	5488	0.74	11190	1.06	33484	1.07	22717	0.97	13704	1.53	16013	1.41	AR,4A	ICP-ES
COMLAB	5320	-0.12	10770	-0.18	32530	0.34	22270	0.44	13750	1.64	15950	1.27	3A	ICP-ES
COMLAB	5200	-0.74	10500	-0.98	31900	-0.15	21200	-0.83	12900	-0.50	15700	0.74	AR	AAS
COMLAB	5290	-0.28	10720	-0.33	32510	0.32	22010	0.13	13910	2.05	15710	0.76	3A	ICP-ES
COMLAB	5270	-0.38	10790	-0.12	32200	0.08	21700	-0.24	13080	-0.04	15450	0.20	AR	ICP-ES
COMLAB	4890	-2.32	10195	-1.88	31474	-0.48	21007	-1.06	12902	-0.49	14666	-1.47	3A	AAS
COMLAB	5440	0.49	11230	1.18	32250	0.12	21900	0.00	13130	0.08	15750	0.84	4A	AAS
COMLAB	5400	0.29	10600	-0.68	30900	-0.92	21400	-0.59	13200	0.26	15100	-0.54		AAS
COMLAB	5400	0.29	10600	-0.68	31600	-0.38	21500	-0.47	13000	-0.24	15300	-0.12		AAS
COMLAB	5130	-1.10	10700	-0.38	31900	-0.15	21900	0.00	12800	-0.75	15600	0.52	FUS	XRF
MINELAB	5200	-0.74	10600	-0.68	31200	-0.69	21200	-0.83	12800	-0.75	15100	-0.54	FUS	ICP-ES
MINELAB	5461	0.60	10364	-1.38	35069	2.30	23420	1.81	14188	2.75	17332	3.00	4A	ICP-ES
MINELAB	5588	1.25	10963	0.39	30904	-0.92	21275	-0.74	13006	-0.23	15884	1.13	4A	AAS
MINELAB	5060	-1.45	10440	-1.15	29940	-1.66	20780	-1.33	12730	-0.93	15620	0.57	AR	AAS,ICP
MINELAB	5200	-0.74	10400	-1.27	31200	-0.69	20900	-1.19	9600	-3.00	15200	-0.33	FUS	XRF
MINELAB	5600	1.31	11300	1.39	32700	0.47	21900	0.00	13800	1.77	15700	0.74	AR	AAS
MINELAB	5430	0.44	11000	0.50	33100	0.78	22800	1.07	12900	-0.50	15400	0.10	AR	ICP-ES
MINELAB	5305	-0.20	10700	-0.38	30400	-1.31	21200	-0.83	12800	-0.75	15100	-0.54	4A	AAS
MINELAB	5670	1.67	10900	0.21	31700	-0.30	22300	0.48	13100	0.01	15500	0.31		AAS
MINELAB	5633	1.48	11149	0.94	34083	1.54	23839	2.31	14748	3.00	15308	-0.10	AR	ICP-ES
MINELAB	5667	1.65	11000	0.50	33333	0.96	23333	1.70	13333	0.59	16667	2.80	1A,AR	AAS
MINELAB	5420	0.39	10900	0.21	32600	0.39	22100	0.24	13300	0.51	15300	-0.12	AR	ICP-ES
MINELAB	5262	-0.42	10480	-1.03	31021	-0.83	21055	-1.00	12896	-0.51	15164	-0.41	1A	AAS
MINELAB	5464	0.61	10400	-1.27	31100	-0.77	21800	-0.12	12800	-0.75	14300	-2.25	AR	ICP-ES
MINELAB	5265	-0.40	10752	-0.23	33631	1.19	22262	0.43	12368	-1.84	15134	-0.47	4A	ICP-ES
MINELAB	5400	0.29	10700	-0.38	32600	0.39	22100							



### Ore Grade Lead Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - October 2009

Standard Reference	GBM909-11	GBM909-12	GBM909-13	GBM909-14	GBM909-15	GBM909-16
MEAN (ppm)	2074	4191	8513	7039	2121	63
STDEV (ppm)	103	141	327	247	123	22
95% CI (ppm)	25	33	77	59	29	14
95% CI (%)	1.19%	0.79%	0.91%	0.83%	1.39%	22.03%
MIN (ppm)	1800	3800	7600	6451	1800	37
MEDIAN (ppm)	2080	4200	8500	7060	2100	67
MAX (ppm)	2340	4570	9164	7568	2462	100
IQR (ppm)	89	171	383	300	140	33
COUNT	68	71	70	69	68	11

Standard Reference	GBM909-11		GBM909-12		GBM909-13		GBM909-14		GBM909-15		GBM909-16		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
ZARAZMA	1830	-2.36	4037	-1.10	7875	-1.95	6514	-2.13	1839	-2.29	nr	nr	AR	ICP-ES
COMLAB	2100	0.25	4200	0.06	8700	0.57	7100	0.25	2200	0.64	<200	blid	4A	ICP-ES
COMLAB	2060	-0.14	4240	0.34	8590	0.24	7100	0.25	2160	0.32	nr	nr	4A	ICP-ES
COMLAB	2100	0.25	4400	1.48	8600	0.27	7200	0.65	2100	-0.17	nr	nr	4A	AAS
COMLAB	2140	0.64	4290	0.70	8350	-0.50	6930	-0.44	2170	0.40	nr	nr	AR	AAS
COMLAB	2030	-0.43	4100	-0.65	8450	-0.19	6760	-1.13	2170	0.40	150	3.00	FUS	ICP-ES
COMLAB	2040	-0.33	4240	0.34	8670	0.48	7080	0.17	2200	0.64	nr	nr	4A	ICP-ES
COMLAB	2450	3.00	4260	0.49	8470	-0.13	7020	-0.08	2180	0.48	nr	nr	4A	ICP-ES
COMLAB	2040	-0.33	4290	0.70	8490	-0.07	7030	-0.04	2100	-0.17	nr	nr	4A	ICP-ES
COMLAB	1960	-1.10	4190	-0.01	8310	-0.62	7160	0.49	2120	-0.01	nr	nr	4A	AAS
COMLAB	1950	-1.20	4190	-0.01	8420	-0.28	6980	-0.24	2090	-0.25	nr	nr	4A	AAS
COMLAB	2080	0.06	4270	0.56	8340	-0.53	7080	0.17	2100	-0.17	nr	nr	4A	ICP-ES
COMLAB	2270	1.89	4260	0.49	8790	0.85	6880	-0.64	2030	-0.74	nr	nr	AR	AAS
COMLAB	2100	0.25	4200	0.06	8400	-0.35	6900	-0.56	2100	-0.17	nr	nr	AR	AAS
COMLAB	2100	0.25	4300	0.77	8900	1.18	7200	0.65	2100	-0.17	nr	nr	4A	AAS
COMLAB	2000	-0.72	4250	0.42	8550	0.11	6900	-0.56	2100	-0.17	nr	nr	4A	ICP-ES
COMLAB	1940	-1.30	3930	-1.86	8350	-0.50	7100	0.25	2020	-0.82	40	-1.02	4A	ICP-MS
COMLAB	2326	2.44	4542	2.49	9164	1.99	7568	2.14	2265	1.17	93	1.36	AR	ICP-ES
COMLAB	2180	1.02	4079	-0.80	8182	-1.01	6499	-2.19	1857	-2.15	nr	nr	3A	ICP
COMLAB	2000	-0.72	4300	0.77	8300	-0.65	7000	-0.16	2100	-0.17	nr	nr	FUS	XRF
COMLAB	2100	0.25	4200	0.06	8700	0.57	7000	-0.16	2200	0.64	nr	nr	MAD	AAS
COMLAB	2215	1.36	4570	2.69	9120	1.86	7430	1.58	2270	1.21	nr	nr	4A	AAS
COMLAB	2093	0.18	4262	0.50	8896	1.17	7365	1.32	2201	0.65	<50	blid	4A	ICP-MS
COMLAB	2482	3.00	5342	3.00	10500	3.00	8764	3.00	2680	3.00	nr	nr	4A	ICP-ES
COMLAB	2128	0.52	4307	0.82	8642	0.39	7129	0.36	2283	1.32	nr	nr	MAD	ICP AAS
COMLAB	2100	0.25	4100	-0.65	8400	-0.35	6800	-0.97	2100	-0.17	nr	nr	4A	AAS
COMLAB	2100	0.25	4200	0.06	8600	0.27	7000	-0.16	2100	-0.17	nr	nr	3A	ICP-ES
COMLAB	1900	-1.68	3948	-1.73	8173	-1.04	6631	-1.65	2018	-0.84	nr	nr	4A	ICP-ES
COMLAB	2050	-0.23	4040	-1.08	8140	-1.14	7120	0.33	2060	-0.50	40	-1.02	4A	ICP-ES
COMLAB	2073	-0.01	4272	0.57	9114	1.84	7386	1.40	2175	0.44	nr	nr	AR	ICP-ES
COMLAB	1977	-0.94	4136	-0.39	8170	-1.05	6831	-0.84	8831	3.00	nr	nr	4A	AAS
COMLAB	3400	3.00	6200	3.00	10700	3.00	9800	3.00	4100	3.00	1500	3.00	AR	ICP-ES
COMLAB	5946	3.00	14267	3.00	14216	3.00	10214	3.00	9584	3.00	nr	nr	FUS	ICP
COMLAB	2243	1.63	4390	1.41	8729	0.66	7203	0.66	2234	0.92	nr	nr	3A	AAS
COMLAB	2080	0.06	4220	0.20	8720	0.63	7300	1.06	2113	-0.07	nr	nr	3A	AAS
COMLAB	2069	-0.05	4168	-0.17	8002	-1.56	6451	-2.38	1653	-3.00	70	0.33	4A	ICP-ES
COMLAB	2220	1.41	4460	1.91	8960	1.37	7450	1.66	2290	1.37	nr	nr	3A	AAS
COMLAB	2200	1.22	4300	0.77	8800	0.88	7300	1.06	2300	1.46	nr	nr	4A	AAS
COMLAB	2100	0.25	4200	0.06	8500	-0.04	7000	-0.16	2200	0.64	<1000	blid	4A	AAS
COMLAB	2100	0.25	4200	0.06	8800	0.88	7000	-0.16	2100	-0.17	nr	nr	4A	AAS
COMLAB	1930	-1.39	4130	-0.44	8420	-0.28	6990	-0.20	1960	-1.31	nr	nr	4A	AAS
COMLAB	2000	-0.72	4099	-0.66	8294	-0.67	6878	-0.65	2099	-0.18	nr	nr	4A	ICP-ES
COMLAB	2100	0.25	4300	0.77	8600	0.27	7100	0.25	2200	0.64	nr	nr	3A	ICP-ES
COMLAB	2070	-0.04	4140	-0.37	8450	-0.19	7080	0.17	2120	-0.01	nr	nr	4A	AAS
COMLAB	2020	-0.52	3970	-1.57	8370	-0.44	7070	0.12	2000	-0.98	nr	nr	FUS	XRF
COMLAB	1934	-1.35	3955	-1.68	8107	-1.24	6771	-1.09	2103	-0.15	80	0.78	4A	ICP-ES
COMLAB	2015	-0.57	4078	-0.81	8164	-1.07	6736	-1.23	2048	-0.59	nr	nr	AR,4A	ICP-ES
COMLAB	2100	0.25	4200	0.06	8800	0.88	7200	0.65	2200	0.64	<100	blid	3A	ICP-ES
COMLAB	2000	-0.72	4200	0.06	8600	0.27	6900	-0.56	2200	0.64	nr	nr	AR	AAS
COMLAB	2100	0.25	4300	0.77	8800	0.88	7200	0.65	2100	-0.17	<2000	blid	3A	ICP-ES
COMLAB	2000	-0.72	4200	0.06	8500	-0.04	7100	0.25	2200	0.64	<100	blid	AR	ICP-ES
COMLAB	3814	3.00	3990	-1.43	8290	-0.68	6673	-1.48	1990	-1.07	nr	nr	3A	AAS
COMLAB	1930	-1.39	4090	-0.72	8640	0.39	7110	0.29	1890	-1.88	nr	nr	4A	AAS
COMLAB	1900	-1.68	3800	-2.78	7600	-2.79	6200	-3.00	1900	-1.80	<100	blid	nr	AAS
COMLAB	2100	0.25	4100	-0.65	8600	0.27	7100	0.25	2200	0.64	nr	nr	nr	nr
COMLAB	2017	-0.55	4019	-1.23	8253	-0.79	6820	-0.89	2110	-0.09	<100	blid	FUS	XRF
MINELAB	2400	3.00	4300	0.77	8400	-0.35	7000	-0.16	2500	3.00	nr	nr	FUS	ICP-ES
MINELAB	2680	3.00	4844	3.00	9808	3.00	8172	3.00	2773	3.00	nr	nr	4A	ICP-ES
MINELAB	1991	-0.80	3936	-1.81	7811	-2.15	6570	-1.90	2016	-0.85	nr	nr	4A	AAS
MINELAB	2080	0.06	4190	-0.01	8500	-0.04	7110	0.29	2140	0.15	nr	nr	AR	AAS,ICP
MINELAB	2340	2.57	4946	3.00	nr	nr	7410	1.50	2462	2.77	nr	nr	FUS	XRF
MINELAB	2080	0.06	4270	0.56	8470	-0.13	7060	0.08	2030	-0.74	70	0.33	AR	ICP-ES
MINELAB	2182	1.04	4135	-0.40	8561	0.15	7274	0.95	2238	0.95	nr	nr	4A	AAS
MINELAB	2180	1.02	4000	-1.36	8200	-0.96	6700	-1.37	2100	-0.17	nr	nr	nr	AAS
MINELAB	2090	0.15	4330	0.98	9028	1.57	7420	1.54	2054	-0.54	nr	nr	AR	ICP-ES
MINELAB	3667	3.00	4000	-1.36	9000	1.49	4667	-3.00	3333	3.00	nr	nr	1A,AR	AAS
MINELAB	2110	0.35	4240	0.34	8490	-0.07	7030	-0.04	2060	-0.50	48	-0.68	AR	ICP-ES
MINELAB	2066	-0.08	4268	0.54	8292	-0.68	6949	-0.36	1987	-1.09	67	0.19	1A	AAS
MINELAB	2123	0.47	4205	0.10	8459	-0.16	7448	1.65	2076	-0.37	nr	nr	AR	ICP-ES
MINELAB	2200	1.22	4200	0.06	8700	0.57	7200	0.65	2400	2.27	nr	nr	3A	AAS
MINELAB	1800	-2.65	4200	0.06	6800	-3.00	5800	-3.00	1800	-2.61	100	1.67	AR	AAS
MINELAB	2100	0.25	4305	0.81	9150	1.95	7300	1.06	2148	0.22	37	-1.15	4A	AAS
MINELAB	2071	-0.03	4091	-0.71	8506	-0.02	6863	-0.71	2192	0.58	45	-0.79	AR	ICP-MS
MINELAB	2048	-0.25	4230	0.27	7930	-1.78	6880	-0.64	2073	-0.39	nr	nr	3A	ICP-ES
MINELAB	2239	1.60	4393	1.43	9094	1.78	7473	1.76	2393	2.21	nr	nr	AR	ICP-ES
MINELAB	2100	0.25	4200	0.06	8600	0.27	7000	-0.16	2100	-0.17	nr	nr	FUS	XRF
MINELAB	2038	-0.35	4010	-1.29	8107	-1.24	6709	-1.34	2104	-0.14	nr	nr	3A	AAS

Highlighted values are outliers which are assigned a z-score of -3.00 or 3.00 in the standardised values

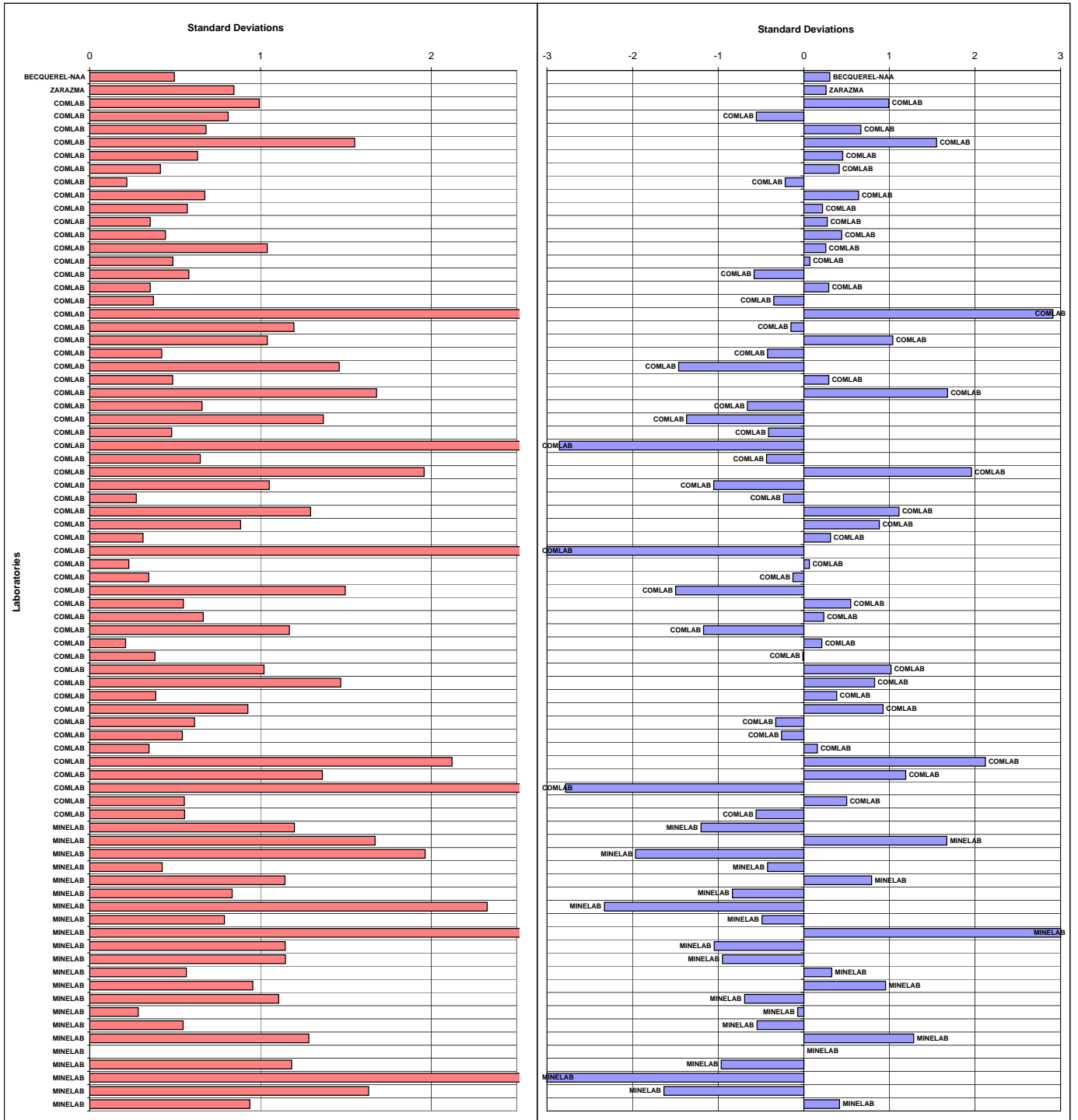


# Ore Grade Zinc Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - October 2009

Standard Reference	GBM909-11	GBM909-12	GBM909-13	GBM909-14	GBM909-15	GBM909-16
MEAN (ppm)	19486	40073	68362	65582	26698	123
STDEV (ppm)	591	1348	2363	2291	1251	35
95% CI (ppm)	144	323	570	553	289	19
95% CI (%)	0.74%	0.81%	0.83%	0.84%	1.08%	15.50%
MIN (ppm)	18050	36622	63100	60480	23826	73
MEDIAN (ppm)	19500	39927	68300	65700	26620	111
MAX (ppm)	20880	42723	73900	70239	30000	181
IQR (ppm)	777	1712	2650	3219	1354	36
COUNT	66	68	67	67	73	14

Standard Reference	GBM909-11		GBM909-12		GBM909-13		GBM909-14		GBM909-15		GBM909-16		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
BECQUEREL-NAA	20000	0.87	40700	0.46	69100	0.31	66400	0.36	26100	-0.48	<47	bld	NAA	
ZARAZMA	18737	-1.27	41934	1.38	67904	-0.19	65705	0.05	28354	1.32	nr	nr	AR	ICP-ES
COMLAB	19800	0.53	41400	0.98	71100	1.16	67900	1.01	28300	1.28	<100	bld	4A	ICP-ES
COMLAB	19200	-0.48	38700	-1.02	65900	-1.04	63600	-0.87	27500	0.64	nr	nr	4A	ICP-ES
COMLAB	20300	1.38	41800	1.28	68900	0.23	65500	-0.04	27300	0.48	nr	nr	4A	AAS
COMLAB	19500	0.02	44400	3.00	73900	2.34	69400	1.67	27600	0.72	nr	nr	AR	AAS
COMLAB	20880	2.36	40380	0.23	68620	0.11	64570	-0.44	26720	0.02	110	-0.37	FUS	ICP-ES
COMLAB	19500	0.02	40200	0.09	70200	0.78	65700	0.05	28100	1.12	nr	nr	4A	ICP-ES
COMLAB	19450	-0.06	39400	-0.50	67900	-0.20	65000	-0.25	26600	-0.08	nr	nr	4A	ICP-ES
COMLAB	19500	0.02	41900	1.35	71100	1.16	67300	0.75	26600	-0.08	nr	nr	4A	ICP-ES
COMLAB	19250	-0.40	41500	1.06	70000	0.69	66100	0.23	26100	0.48	nr	nr	4A	AAS
COMLAB	19800	0.53	39800	-0.20	69300	0.40	66500	0.40	27000	0.24	nr	nr	4A	AAS
COMLAB	19500	0.02	41000	0.69	69600	0.52	67100	0.66	27100	0.32	nr	nr	4A	ICP-ES
COMLAB	21300	3.00	39700	-0.28	68200	-0.07	61900	-1.61	27000	0.24	nr	nr	AR	AAS
COMLAB	20000	0.87	39900	-0.13	69600	0.52	65500	-0.04	25600	-0.88	nr	nr	AR	AAS
COMLAB	19300	-0.32	39200	-0.65	67000	-0.58	64100	-0.65	25800	-0.72	nr	nr	4A	AAS
COMLAB	19550	0.11	40800	0.54	69700	0.57	66500	0.40	26500	-0.16	nr	nr	4A	ICP-ES
COMLAB	19100	-0.65	39300	-0.57	68300	-0.03	65700	0.05	26000	-0.56	110	-0.37	4A	ICP-ES
COMLAB	22615	3.00	48238	3.00	82656	3.00	77149	3.00	29897	2.56	174	1.45	AR	ICP-ES
COMLAB	20800	2.22	40600	0.39	67600	-0.32	61900	-1.61	24900	-1.44	nr	nr	3A	ICP
COMLAB	20300	1.38	41500	1.06	69300	0.40	67700	0.92	28500	1.44	nr	nr	FUS	XRF
COMLAB	19200	-0.48	39500	-0.43	67000	-0.58	64700	-0.38	26400	-0.24	nr	nr	4A	AAS
COMLAB	19130	-0.60	37900	-1.61	63900	-1.89	60900	-2.04	25250	-1.16	nr	nr	4A	AAS
COMLAB	19200	-0.48	40500	0.32	70500	0.90	66500	0.40	27100	0.32	135	0.34	4A	ICP-ES
COMLAB	22500	3.00	42000	1.43	69000	0.27	68000	1.06	30000	2.64	nr	nr	4A	ICP-ES
COMLAB	18817	-1.13	39095	-0.73	67133	-0.52	63835	-0.76	26513	-0.15	nr	nr	MAD	ICP AAS
COMLAB	19300	-0.32	37800	-1.69	65600	-1.17	61200	-1.91	24500	-1.76	nr	nr	4A	AAS
COMLAB	18600	-1.50	40300	0.17	67700	-0.28	65100	-0.21	26400	-0.24	nr	nr	3A	ICP-ES
COMLAB	17005	-3.00	35410	-3.00	60242	-3.00	57837	-3.00	23848	-2.28	nr	nr	4A	ICP-ES
COMLAB	18740	-1.26	38750	-0.98	67430	-0.39	66800	0.53	26620	-0.06	nr	nr	4A	ICP-ES
COMLAB	19683	0.33	42091	1.50	77970	3.00	73171	3.00	29148	1.96	nr	nr	AR	ICP-ES
COMLAB	19382	-0.18	38544	-1.13	65606	-1.17	61848	-1.63	25261	-1.15	nr	nr	4A	AAS
COMLAB	19100	-0.65	39500	-0.43	67900	-0.20	65600	0.01	26800	0.08	<500	bld	AR	ICP-ES
COMLAB	19327	-0.27	42723	1.97	73244	2.07	70131	1.99	26473	-0.18	nr	nr	FUS	ICP
COMLAB	20350	1.46	41525	1.08	69850	0.63	68350	1.21	26745	0.04	nr	nr	3A	AAS
COMLAB	19550	0.11	40700	0.46	69180	0.35	66033	0.20	27255	0.45	nr	nr	3A	AAS
COMLAB	17700	-3.00	30200	-3.00	48500	-3.00	44900	-3.00	22400	-3.00	300	3.00	4A	ICP-ES
COMLAB	19500	0.02	40800	0.54	67400	-0.41	65800	0.10	26800	0.08	nr	nr	3A	AAS
COMLAB	19100	-0.65	39900	-0.13	68500	0.06	66700	0.49	26200	-0.40	nr	nr	4A	AAS
COMLAB	18810	-1.14	37313	-2.05	66133	-0.94	63175	-1.05	23826	-2.29	101	-0.63	4A	AAS
COMLAB	19600	0.19	41600	1.13	70200	0.78	66300	0.31	27100	0.32	nr	nr	4A	AAS
COMLAB	19700	0.36	39700	-0.28	69500	0.48	68800	1.40	25700	-0.80	nr	nr	4A	AAS
COMLAB	18050	-2.43	38480	-1.18	66910	-0.61	63900	-0.73	25590	-0.89	nr	nr	4A	ICP-ES
COMLAB	19500	0.02	40500	0.32	68400	0.02	65700	0.05	27500	0.64	nr	nr	3A	ICP-ES
COMLAB	19300	-0.32	39600	-0.35	69400	0.44	66700	0.49	26300	-0.32	nr	nr	4A	AAS
COMLAB	20200	1.21	41400	0.98	69700	0.57	67100	0.66	28900	1.68	nr	nr	MAD	ICP AAS
COMLAB	18729	-1.28	39640	-0.32	78110	3.00	70239	2.03	27589	0.71	134	0.31	4A	ICP-ES
COMLAB	19723	0.40	41046	0.72	69141	0.33	66407	0.36	26850	0.12	nr	nr	AR,4A	ICP-ES
COMLAB	20000	0.87	40900	0.61	71900	1.50	68800	1.40	27000	0.24	<100	bld	3A	ICP-ES
COMLAB	18700	-1.33	40500	0.32	68100	-0.11	63500	-0.91	27200	0.40	nr	nr	AR	AAS
COMLAB	19900	0.70	39600	-0.35	67600	-0.32	64900	-0.30	25400	-1.04	<2000	bld	3A	ICP-ES
COMLAB	20100	1.04	39700	-0.28	68900	0.23	65500	-0.04	26500	-0.16	<100	bld	AR	ICP-ES
COMLAB	19985	0.84	45155	3.00	75775	3.00	72845	3.00	27647	0.76	nr	nr	3A	AAS
COMLAB	21400	3.00	39600	-0.35	72000	1.54	69800	1.84	26600	-0.08	nr	nr	4A	AAS
COMLAB	16700	-3.00	33400	-3.00	44700	-3.00	43800	-3.00	24300	-1.92	<100	bld	AAS	
COMLAB	20000	0.87	39900	-0.13	69500	0.48	66700	0.49	27700	0.80	nr	nr		
COMLAB	18874	-1.04	39312	-0.56	67397	-0.41	65017	-0.25	26041	-0.53	120	-0.09	FUS	XRF
MINELAB	19000	-0.82	38100	-1.46	64800	-1.51	62000	-1.56	25900	-0.64	nr	nr	FUS	ICP-ES
MINELAB	22310	3.00	42061	1.47	71788	1.45	67311	0.75	28795	1.68	nr	nr	4A	ICP-ES
MINELAB	17542	-3.00	36622	-2.56	64779	-1.52	63863	-0.75	24204	-1.99	nr	nr	4A	AAS
MINELAB	18640	-1.43	39700	-0.28	67960	-0.17	65060	-0.23	26680	-0.01	nr	nr	AR	AAS,ICP
MINELAB	20200	1.21	41800	1.28	70700	0.99	68700	1.36	25600	-0.88	180	1.62	AR	ICP-ES
MINELAB	19100	-0.65	39900	-0.87	65500	-1.21	63200	-1.04	26200	-0.40	nr	nr	4A	AAS
MINELAB	18400	-1.84	35600	-3.00	60600	-3.00	57800	-3.00	25700	-0.80	nr	nr		AAS
MINELAB	19530	0.07	40991	0.68	65814	-1.08	63055	-1.10	25434	-1.01	nr	nr	AR	ICP-ES
MINELAB	51333	3.00	77333	3.00	120667	3.00	116667	3.00	53000	3.00	nr	nr	1A,AR	AAS
MINELAB	19000	-0.82	36800	-2.43	63100	-2.23	65780	0.09	26900	0.16	181	1.65	AR	ICP-ES
MINELAB	19776	0.49	39088	-0.73	63924	-1.88	60480	-2.23	26192	-0.40	136	0.37	1A	AAS
MINELAB	19300	-0.32	40400	0.24	67700	-0.28	67400	0.79	28200	1.20	nr	nr	AR	ICP-ES
MINELAB	20265	1.32	40743	0.50	72421	1.72	67223	0.72	27354	0.52	111	-0.34	4A	ICP-ES
MINELAB	19000	-0.82	38400	-1.24	65600	-1.17	62700	-1.26	28000	1.04	nr	nr	3A	AAS
MINELAB	19800	0.53	39700	-0.28	68000	-0.15	64700	-0.38	26600	-0.08	100	-0.66	AR	AAS
MINELAB	19125	-0.61	39300	-0.57	66900	-0.62	65100	-0.21	25800	-0.72	90	-0.94	4A	AAS
MINELAB	20492	1.70	41058	0.73	73316	2.10	68268	1.17	27					





Ore Grade Nickel Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - October 2009

Standard Reference	GBM909-11	GBM909-12	GBM909-13	GBM909-14	GBM909-15	GBM909-16
MEAN (ppm)	26	23	24	21	116542	23993
STDEV (ppm)	9	8	9	5	6351	1430
95% CI (ppm)	6	6	6	3	1634	356
95% CI (%)	24.45%	24.31%	24.66%	13.74%	1.40%	1.48%
MIN (ppm)	13	10	10	16	103398	20730
MEDIAN (ppm)	30	20	21	20	117000	24000
MAX (ppm)	38	35	40	31	128830	26903
IQR (ppm)	15	14	8	3	6975	1529
COUNT	9	10	10	12	59	63

Standard Reference	GBM909-11		GBM909-12		GBM909-13		GBM909-14		GBM909-15		GBM909-16		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
BECQUEREL-NAA	36	1.02	32	1.08	<21	bld	26	0.94	117000	0.07	24940	0.66	NAA	
ZARAZMA	nr	nr	nr	nr	nr	nr	nr	nr	103838	-2.00	21581	-1.69	AR	ICP-ES
COMLAB	20	-0.69	20	-0.33	20	-0.40	20	-0.27	113200	-0.53	24420	0.30	4A	ICP-ES
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	119000	0.39	24000	0.00	4A	ICP-ES
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	>100000	ald	23700	-0.21	4A	AAS
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	124000	1.17	25800	1.26	AR	AAS
COMLAB	100	3.00	30	0.85	40	1.84	20	-0.27	128830	1.93	25520	1.07	FUS	ICP-ES
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	116000	-0.09	23600	-0.28	4A	ICP-ES
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	116000	-0.09	23800	-0.14	4A	ICP-ES
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	114300	-0.35	24100	0.07	4A	ICP-ES
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	117000	0.07	23700	-0.21	4A	AAS
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	114500	-0.32	23400	-0.42	4A	AAS
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	114500	-0.32	23500	-0.35	4A	ICP-ES
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	114600	-0.31	23300	-0.48	AR	AAS
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	116600	0.01	24600	0.42	4A	AAS,GRAV
COMLAB	35	0.92	35	1.44	30	0.72	30	1.75	117000	0.07	24000	0.00	4A	ICP-ES
COMLAB	86	3.00	85	3.00	86	3.00	17	-0.87	87831	-3.00	19378	-3.00	AR	ICP-ES
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	120000	0.54	24900	0.63	4A	ICP
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	109000	-1.19	21400	-1.81	FUS	XRF
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	118000	0.23	24500	0.35	4A	AAS
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	107225	-1.47	21920	-1.45	4A	AAS
COMLAB	38	1.24	31	0.97	35	1.28	31	1.95	124000	1.17	24300	0.21	4A	ICP-ES
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	150100	3.00	37000	3.00	4A	ICP-ES
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	118133	0.25	24014	0.01	MAD	ICP,AAS
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	126000	1.49	25500	1.05	4A	AAS
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	113000	-0.56	23200	-0.55	3A	ICP-ES
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	103398	-2.07	20948	-2.13	4A	ICP-ES
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	114160	-0.38	nr	nr	4A	ICP-ES
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	127588	1.74	25847	1.30	AR	ICP-ES
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	111664	-0.77	21998	-1.40	4A	AAS
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	127000	1.65	26400	1.68	AR	ICP-ES
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	41453	-3.00	28929	3.00	FUS	ICP
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	105050	-1.81	20730	-2.28	3A	AAS
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	118500	0.31	23100	-0.62	3A	AAS
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	94700	-3.00	21500	-1.74	4A	ICP-ES
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	117000	0.07	24400	0.28	3A	AAS
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	119700	0.50	24600	0.42	4A	AAS
COMLAB	<500	bld	<500	bld	<500	bld	<500	bld	105375	-1.76	21834	-1.51	4A	AAS
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	111300	-0.83	22600	-0.97	4A	AAS
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	111000	-0.87	24200	0.14	4A	AAS
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	113600	-0.46	23140	-0.60	4A	ICP-ES
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	116000	-0.09	25100	0.77	MAD	ICP-ES
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	118000	0.23	25500	1.05	4A	AAS
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	126000	1.49	25600	1.12	MAD	ICP,AAS
COMLAB	13	-1.44	18	-0.57	23	-0.07	16	-1.08	126471	1.56	24448	0.32	4A	ICP-ES
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	111626	-0.77	23466	-0.37	AR,4A	ICP-ES
COMLAB	30	0.38	10	-1.51	10	-1.53	20	-0.27	120150	0.57	24730	0.52	3A	ICP-ES
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	105000	-1.82	24200	0.14	AR	AAS
COMLAB	<2000	bld	<2000	bld	<2000	bld	<2000	bld	119980	0.54	24540	0.38	3A	ICP-ES
COMLAB	30	0.38	<10	bld	20	-0.40	20	-0.27	>60000	ald	23930	-0.04	AR	ICP-ES
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	142533	3.00	23272	-0.50	3A	AAS
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	120800	0.67	25200	0.84	4A	AAS
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	117400	0.14	24100	0.07		
COMLAB	<100	bld	<100	bld	<100	bld	<100	bld	115700	-0.13	24000	0.00	FUS	XRF
MINELAB	nr	nr	nr	nr	nr	nr	nr	nr	121000	0.70	25600	1.12	FUS	ICP-ES
MINELAB	nr	nr	nr	nr	nr	nr	nr	nr	124650	1.28	26903	2.03	4A	ICP-ES
MINELAB	nr	nr	nr	nr	nr	nr	nr	nr	95870	-3.00	21938	-1.44	4A	AAS
MINELAB	nr	nr	nr	nr	nr	nr	nr	nr	120000	0.54	23330	-0.46	AR	AAS,ICP
MINELAB	20	-0.69	20	-0.33	20	-0.40	20	-0.27	121900	0.84	24300	0.21	AR	ICP-ES
MINELAB	nr	nr	nr	nr	nr	nr	nr	nr	105900	-1.68	22700	-0.90	4A	AAS
MINELAB	nr	nr	nr	nr	nr	nr	nr	nr	107965	-1.35	23487	-0.35	AR	ICP-ES
MINELAB	nr	nr	nr	nr	nr	nr	nr	nr	124000	1.17	26667	1.87	1A,AR	AAS
MINELAB	<100	bld	<100	bld	<100	bld	<100	bld	115000	-0.24	23700	-0.21	AR	ICP-ES
MINELAB	nr	nr	nr	nr	nr	nr	nr	nr	115000	-0.24	26800	1.96	AR	ICP-ES
MINELAB	<15	bld	16	-0.80	21	-0.29	19	-0.47	119165	0.41	23198	-0.56	AR	ICP-MS
MINELAB	nr	nr	nr	nr	nr	nr	nr	nr	>10000	ald	>10000	ald	3A	ICP-ES
MINELAB	nr	nr	nr	nr	nr	nr	nr	nr	123666	1.12	26483	1.74	AR	ICP-ES
MINELAB	16	-1.12	16	-0.80	17	-0.74	17	-0.87	111747	-0.76	23704	-0.20	3A	ICP-MS
MINELAB	nr	nr	nr	nr	nr	nr	nr	nr	117500	0.15	23700	-0.21	3A	AAS

Highlighted values are outliers which are assigned a z-score of -3.00 or 3.00 in the standardised values



Ore Grade Silver Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - October 2009

Standard Reference	GBM909-11	GBM909-12	GBM909-13	GBM909-14	GBM909-15	GBM909-16
MEAN (ppm)	26	51.7	127.3	97	14	4
STDEV (ppm)	2	3.0	6.8	5	1	1
95% CI (ppm)	0	0.7	1.6	1	1	0
95% CI (%)	1.61%	1.39%	1.29%	1.23%	3.61%	7.42%
MIN (ppm)	22	45.0	110.3	84	12	2
MEDIAN (ppm)	25	51.3	127.0	97	14	4
MAX (ppm)	30	59.5	146.0	109	16	7
IQR (ppm)	2	3.6	7.8	4	2	2
COUNT	67	68	66	66	23	62

Standard Reference	GBM909-11		GBM909-12		GBM909-13		GBM909-14		GBM909-15		GBM909-16		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
BECQUEREL-NAA	23.0	-1.48	51.0	-0.22	131.0	0.54	98.0	0.29	12.0	-1.69	<4.0	blid	NAA	
ZARAZMA	24.2	-0.77	48.8	-0.94	116.6	-1.59	90.7	-1.20	nr	nr	2.8	-1.07	AR	ICP-ES
COMLAB	25.0	-0.30	52.0	0.11	131.0	0.54	97.0	0.08	14.0	-0.04	4.0	-0.12	AR	ICP-ES
COMLAB	24.0	-0.89	50.0	-0.56	125.0	-0.34	95.0	-0.33	nr	nr	4.0	-0.12	4A	ICP-ES
COMLAB	25.0	-0.30	52.0	0.11	126.0	-0.20	95.0	-0.33	nr	nr	<20.0	blid	4A	AAS
COMLAB	25.5	-0.01	48.8	-0.96	118.1	-1.36	88.3	-1.70	12.8	-1.03	4.0	-0.12	4A	ICP-ES
COMLAB	25.0	-0.30	51.0	-0.22	127.0	-0.05	97.0	0.08	nr	nr	4.0	-0.12	4A	ICP-ES
COMLAB	26.0	0.28	54.0	0.78	133.0	0.84	101.0	0.90	nr	nr	4.0	-0.12	4A	ICP-ES
COMLAB	25.0	-0.30	51.0	-0.22	123.0	-0.64	93.0	-0.74	nr	nr	nr	nr	4A	ICP-ES
COMLAB	25.0	-0.30	51.0	-0.22	121.0	-0.93	95.0	-0.33	nr	nr	2.0	-1.75	4A	AAS
COMLAB	27.0	0.87	52.0	0.11	124.0	-0.49	97.0	0.08	nr	nr	2.0	-1.75	4A	AAS
COMLAB	25.0	-0.30	52.0	0.11	127.0	-0.05	99.0	0.49	nr	nr	3.0	-0.94	4A	ICP-ES
COMLAB	28.0	1.46	56.0	1.45	134.0	0.99	98.0	0.29	nr	nr	6.0	1.51		AAS
COMLAB	26.0	0.28	50.0	-0.56	128.0	0.10	96.0	-0.12	nr	nr	4.0	-0.12	AR	AAS
COMLAB	25.8	0.17	48.6	-1.02	130.5	0.47	95.3	-0.26	nr	nr	3.3	-0.69	4A	AAS
COMLAB	27.0	0.87	52.0	0.11	134.0	0.99	100.0	0.70	nr	nr	4.0	-0.12	4A	ICP-ES
COMLAB	27.0	0.87	54.0	0.78	133.0	0.84	100.0	0.70	16.0	1.61	4.0	-0.12	4A	ICP-MS
COMLAB	27.5	1.17	54.0	0.78	131.0	0.54	101.0	0.90	15.3	1.03	4.2	0.04	AR	ICP-ES
COMLAB	23.0	-1.48	49.0	-0.89	128.0	0.10	98.0	0.29	nr	nr	<5.0	blid	3A	AAS
COMLAB	18.0	-3.00	38.0	-3.00	102.0	-3.00	79.0	-3.00	nr	nr	7.0	2.32	3A	AAS
COMLAB	25.4	-0.07	50.6	-0.35	125.8	-0.23	95.4	-0.24	nr	nr	3.4	-0.61	MAD	AAS
COMLAB	27.4	1.11	53.6	0.65	134.0	0.99	101.0	0.90	nr	nr	5.3	0.94	4A	AAS
COMLAB	24.0	-0.89	52.0	0.11	126.0	-0.20	96.0	-0.12	14.0	-0.04	5.0	0.69	4A	ICP-MS
COMLAB	27.8	1.34	59.5	2.62	114.4	-1.91	90.1	-1.33	nr	nr	6.8	2.16	4A	ICP-ES
COMLAB	26.0	0.28	48.0	-1.22	118.0	-1.38	93.0	-0.74	nr	nr	6.0	1.51	MAD	ICP,AAS
COMLAB	28.0	1.46	53.0	0.45	126.0	-0.20	94.0	-0.53	nr	nr	7.0	2.32	4A	AAS
COMLAB	25.0	-0.30	51.0	-0.22	129.0	0.25	97.0	0.08	nr	nr	5.0	0.69	3A	ICP-ES
COMLAB	26.3	0.44	55.1	1.14	136.8	1.40	104.6	1.65	nr	nr	3.9	-0.22	AR	ICP-MS
COMLAB	25.7	0.11	50.6	-0.35	129.0	0.25	94.9	-0.35	13.9	-0.12	3.7	0.37	AR	ICP-ES
COMLAB	24.2	-0.77	48.8	-0.96	119.4	-1.17	89.9	-1.37	nr	nr	3.6	-0.45	4A	AAS
COMLAB	23.5	-1.18	55.0	1.12	122.0	-0.79	96.5	-0.02	13.5	-0.45	6.0	1.51	AR	AAS
COMLAB	30.0	2.64	59.0	2.45	146.0	2.76	122.0	3.00	nr	nr	6.0	1.51	3A	AAS
COMLAB	23.0	-1.48	49.4	-0.76	123.6	-0.55	94.0	-0.53	7.3	-3.00	nr	nr	AR	AAS
COMLAB	32.0	3.00	68.0	3.00	163.0	3.00	126.0	3.00	nr	nr	6.0	1.51	4A	ICP-ES
COMLAB	27.0	0.87	58.0	2.12	129.0	0.25	107.0	2.14	nr	nr	5.0	0.69	3A	AAS
COMLAB	25.7	0.11	51.2	-0.15	127.0	-0.05	97.5	0.19	nr	nr	3.8	-0.29	4A	AAS
COMLAB	26.0	0.28	56.0	1.45	137.0	1.43	104.0	1.52	nr	nr	<10.0	blid	4A	AAS
COMLAB	24.0	-0.89	53.0	0.45	132.0	0.69	98.0	0.29	nr	nr	5.0	0.69	4A	AAS
COMLAB	27.0	0.87	53.0	0.45	127.0	-0.05	101.0	0.90	14.0	-0.04	<5.0	blid	4A	AAS
COMLAB	24.0	-0.89	47.0	-1.56	122.0	-0.79	96.0	-0.12	nr	nr	3.0	-0.94	4A	ICP-ES
COMLAB	25.0	-0.30	53.0	0.45	134.0	0.99	95.0	-0.33	nr	nr	nr	nr	3A	ICP-ES
COMLAB	27.0	0.87	52.0	0.11	141.0	2.02	98.0	0.29	nr	nr	4.0	-0.12	4A	AAS
COMLAB	25.0	-0.30	48.0	-1.22	120.0	-1.08	90.0	-1.35	nr	nr	3.4	-0.61	AD	AAS
COMLAB	21.7	-2.24	48.9	-0.92	122.0	-0.79	96.7	0.02	13.5	-0.45	3.7	-0.37	AR	ICP-ES
COMLAB	24.3	-0.71	49.3	-0.79	126.0	-0.20	97.0	0.08	nr	nr	3.3	-0.69	AR,4A	ICP-ES
COMLAB	24.0	-0.89	49.0	-0.89	127.0	-0.05	96.0	-0.12	14.0	-0.04	<5.0	blid	3A	ICP-ES
COMLAB	26.1	0.34	54.2	0.85	126.9	-0.06	97.7	0.23	nr	nr	3.8	-0.29	AR	AAS
COMLAB	25.0	-0.30	53.0	0.45	127.0	-0.05	97.0	0.08	15.0	0.79	<5.0	blid	3A	ICP-ES
COMLAB	24.0	-0.89	51.0	-0.22	130.0	0.39	97.0	0.08	13.0	-0.86	<5.0	blid	AR	ICP-ES
COMLAB	7.5	-3.00	27.4	-3.00	78.3	-3.00	41.0	-3.00	nr	nr	3.3	-0.69	3A	AAS
COMLAB	26.0	0.28	54.7	1.02	131.6	0.63	99.0	0.49	13.4	-0.53	4.3	0.12	4A	AAS
COMLAB	24.5	-0.60	48.2	-1.16	119.0	-1.23	88.0	-1.76	13.6	-0.37	4.1	-0.04		
COMLAB	28.0	1.46	56.0	1.45	142.0	2.17	109.0	2.55	nr	nr	4.0	-0.12		
COMLAB	25.0	-0.30	50.2	-0.49	126.0	-0.20	92.7	-0.80	12.4	-1.36	3.7	-0.37	1A	AAS
MINELAB	28.0	1.46	53.0	0.45	122.0	-0.79	102.0	1.11	nr	nr	4.0	-0.12	4A	ICP-ES
MINELAB	23.6	-1.13	49.5	-0.72	119.0	-1.23	90.0	-1.35	nr	nr	3.9	-0.20	4A	AAS
MINELAB	24.6	-0.54	51.3	-0.12	126.2	-0.17	95.4	-0.24	nr	nr	3.0	-0.94	AR	AAS,ICP
MINELAB	26.4	0.53	54.1	0.82	154.5	3.00	100.5	0.80	nr	nr	3.5	-0.55	AR	AAS
MINELAB	24.8	-0.42	50.2	-0.50	126.7	-0.10	99.2	0.54	13.1	-0.78	3.4	-0.64	AR	ICP-ES
MINELAB	25.0	-0.30	50.4	-0.42	129.9	0.38	97.1	0.10	13.4	-0.53	3.6	-0.45	4A	AAS
MINELAB	24.6	-0.54	52.1	0.15	128.0	0.10	97.1	0.10	nr	nr	3.5	-0.53		
MINELAB	23.7	-1.09	48.3	-1.13	127.0	-0.05	90.7	-1.21	nr	nr	3.2	-0.81	AR	ICP-ES
MINELAB	26.7	0.70	51.3	-0.12	110.3	-2.51	90.0	-1.35	nr	nr	4.7	0.45	1A,AR	AAS
MINELAB	26.4	0.52	51.8	0.05	130.0	0.39	98.5	0.39	13.7	-0.29	3.5	-0.53	AR	ICP-ES
MINELAB	25.0	-0.30	53.0	0.45	134.0	0.99	102.0	1.11	12.0	-1.69	2.0	-1.75	3A	AAS
MINELAB	26.7	0.70	53.2	0.53	131.8	0.66	102.8	1.28	nr	nr	2.3	-1.48	AR	ICP-ES
MINELAB	29.9	2.60	58.4	2.26	140.2	1.90	107.6	2.25	15.5	1.21	4.9	0.64	4A	ICP-ES
MINELAB	14.0	-3.00	50.0	-0.56	79.0	-3.00	60.0	-3.00	nr	nr	5.0	0.69	3A	AAS
MINELAB	25.0	-0.30	50.0	-0.56	123.0	-0.64	92.0	-0.94	16.0	1.61	7.0	2.32	AR	AAS
MINELAB	24.0	-0.89	47.0	-1.56	126.0	-0.20	96.0	-0.12	15.0	0.79	3.0	-0.94	4A	AAS
MINELAB	31.0	3.00	63.0	3.00	159.0	3.00	119.0	3.00	18.0	3.00	<15.0	blid	AR	ICP-MS
MINELAB	>10.0	ald	>10.0	ald	>10.0	ald	>10.0	ald	nr	nr	4.6	0.40	3A	ICP-ES
MINELAB	28.6	1.80	62.6	3.00	200.8	3.00	137.0	3.00	16.4	1.92	5.7	1.23	AR	AAS
MINELAB	22.0	-2.07	46.0	-1.89	112.9	-2.14	84.3	-2.51	nr	nr	2.8	-1.07	AR	ICP-ES
MINELAB	19.0	-3.00	45.0	-2.23	125.0	-0.34	85.0	-2.38	nr	nr	3.0	-0.94	AR	AAS

Highlighted values are outliers which are assigned a z-score of -3.00 or 3.00 in the standardised values



Sulphur in Ore Grade Samples Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - October 2009

Standard Reference	GBM909-11	GBM909-12	GBM909-13	GBM909-14	GBM909-15	GBM909-16
MEAN (%)	4.83	9.91	18.13	15.71	26.87	24.17
STDEV (%)	0.15	0.35	0.60	0.73	0.80	0.78
95% CI (%)	0.04	0.09	0.15	0.19	0.21	0.21
95% CI (rel %)	0.84%	0.91%	0.85%	1.18%	0.79%	0.87%
MIN (%)	4.43	9.15	16.61	14.02	25.01	22.22
MEDIAN (%)	4.83	9.91	18.10	15.70	26.90	24.20
MAX (%)	5.22	10.80	19.66	17.45	28.78	25.79
IQR (%)	0.18	0.41	0.73	0.66	0.90	0.70
COUNT	57	60	58	61	55	53

Standard Reference	GBM909-11		GBM909-12		GBM909-13		GBM909-14		GBM909-15		GBM909-16		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
ZARAZMA	5.22	2.51	10.73	2.33	19.11	1.65	16.62	1.24	26.89	0.02	25.05	1.14	AR	ICP-ES
COMLAB	5.04	1.33	10.01	0.29	18.49	0.61	15.88	0.23	26.44	-0.55	24.04	-0.16	AR	ICP-ES
COMLAB	4.98	0.94	10.10	0.54	18.50	0.62	16.00	0.39	28.10	1.54	25.20	1.33	FUS	ICP-ES
COMLAB	5.33	3.00	10.79	2.49	19.66	2.57	17.44	2.36	29.71	3.00	26.58	3.00	CSA	IR
COMLAB	5.18	2.23	10.60	1.94	19.10	1.63	17.44	2.36	27.80	1.16	25.70	1.97	FUS	ICP-ES
COMLAB	4.80	-0.22	9.68	-0.64	17.95	-0.30	15.85	0.19	27.30	0.53	24.20	0.04	CSA	IR
COMLAB	5.06	1.45	10.10	0.54	17.45	-1.14	15.10	-0.84	25.40	-1.85	18.55	-3.00	4A	ICP-ES
COMLAB	4.85	0.10	9.86	-0.13	17.10	-1.73	14.95	-1.04	24.40	-3.00	18.58	-3.00	4A	ICP-ES
COMLAB	4.93	0.62	10.20	0.83	18.00	-0.22	15.10	-0.84	27.30	0.53	24.00	-0.22	FUS	IR
COMLAB	4.91	0.49	10.05	0.40	17.65	-0.81	15.80	0.12	26.90	0.03	24.30	0.17	CSA	IR
COMLAB	4.65	-1.19	9.65	-0.72	18.30	0.29	15.55	-0.22	25.90	-1.23	24.20	0.04	CSA	IR
COMLAB	4.95	0.74	9.66	-0.70	18.50	0.62	15.80	0.12	27.20	0.41	24.20	0.04	AR, GRAV	Grav
COMLAB	5.11	1.78	9.61	-0.84	18.10	-0.05	15.30	-0.56	27.20	0.41	24.20	0.04	CSA	IR
COMLAB	4.82	-0.09	9.95	0.12	18.00	-0.22	15.80	0.12	26.80	-0.09	24.60	0.56	4A	ICP-ES
COMLAB	4.82	-0.09	10.04	0.38	18.34	0.35	15.78	0.09	27.17	0.37	24.76	0.76	AR	ICP-ES
COMLAB	4.64	-1.26	9.32	-1.66	17.40	-1.23	15.10	-0.84	26.20	-0.85	23.40	-0.99	CSA	IR
COMLAB	4.63	-1.32	10.14	0.66	18.73	1.01	15.93	0.30	26.81	-0.08	24.46	0.38	CSA	IR
COMLAB	4.87	0.23	9.82	-0.25	18.04	-0.15	15.57	-0.19	26.37	-0.63	24.04	-0.16	GRAV	IR
COMLAB	4.88	0.29	9.91	0.01	17.75	-0.64	15.45	-0.36	25.93	-1.19	21.77	-3.00	CSA	IR
COMLAB	4.91	0.49	9.84	-0.19	18.31	0.30	15.89	0.24	25.78	-1.38	23.65	-0.67	4A	ICP-ES
COMLAB	4.67	-1.06	9.59	-0.90	17.61	-0.87	15.10	-0.84	26.55	-0.41	23.43	-0.95	MAD	ICP-AAS
COMLAB	4.81	-0.16	10.09	0.52	18.30	0.29	15.68	-0.04	25.73	-1.44	21.51	-3.00	4A	ICP-ES
COMLAB	4.73	-0.68	9.94	0.09	18.10	-0.05	15.70	-0.02	27.20	0.41	24.20	0.04	CSA	IR
COMLAB	4.58	-1.64	9.15	-2.14	16.61	-2.56	14.20	-2.06	22.56	-3.00	19.55	-3.00	4A	ICP-ES
COMLAB	4.91	0.47	10.06	0.43	18.25	0.20	15.83	0.16	25.95	-1.16	22.86	-1.68	4A	ICP-ES
COMLAB	4.79	-0.29	10.06	0.44	18.43	0.50	16.17	0.63	27.15	0.35	25.01	1.08	AR	ICP-ES
COMLAB	4.82	-0.09	10.17	0.74	18.23	0.17	17.06	1.84	26.90	0.03	22.22	-2.50	GRAV	
COMLAB	4.64	-1.26	9.35	-1.57	17.90	-0.39	15.40	-0.43	25.60	-1.60	23.80	-0.47	CSA	IR
COMLAB	3.89	-3.00	9.57	-0.95	18.13	0.00	16.32	0.83	27.36	0.61	24.18	0.02	CSA	IR
COMLAB	4.85	0.10	10.09	0.52	19.55	2.39	16.52	1.10	26.03	-1.06	23.76	-0.52	4A, CSA	ICP-ES
COMLAB	4.43	-2.61	9.28	-1.77	17.00	-1.90	14.40	-1.79	26.10	-0.97	22.30	-2.40	CSA	IR
COMLAB	4.75	-0.55	9.96	0.15	17.40	-1.23	15.50	-0.29	26.60	-0.35	23.80	-0.47	CSA	IR
COMLAB	5.15	2.06	10.54	1.79	18.82	1.16	16.55	1.15	27.29	0.52	24.47	0.39	CSA	IR
COMLAB	4.91	0.49	10.20	0.83	18.93	1.34	16.33	0.84	28.78	2.40	25.15	1.26	CSA	IR
COMLAB	4.72	-0.74	9.45	-1.29	18.10	-0.05	15.50	-0.29	28.00	1.41	24.50	0.43	CSA	IR
COMLAB	5.00	1.07	10.10	0.54	18.40	0.45	15.80	0.12	28.00	1.41	25.00	1.07	4A	IR
COMLAB	4.86	0.16	9.90	-0.02	18.30	0.29	15.70	-0.02	26.90	0.03	24.10	-0.09	CSA	IR
COMLAB	4.62	-1.39	9.89	-0.05	17.50	-1.06	14.70	-1.38	26.60	-0.35	23.40	-0.99	CSA	IR
COMLAB	4.95	0.74	9.68	-0.64	18.31	0.30	15.81	0.13	27.02	0.18	23.91	-0.33	CSA	IR
COMLAB	4.79	-0.29	9.83	-0.22	18.21	0.13	15.87	0.22	27.39	0.65	24.42	0.32	3A	ICP-ES
COMLAB	4.82	-0.09	9.94	0.09	18.48	0.59	15.42	-0.40	26.86	-0.02	23.79	-0.49	AR	ICP-ES
COMLAB	4.73	-0.68	9.96	0.15	17.86	-0.45	15.37	-0.47	27.23	0.45	24.16	-0.01	3A	ICP-ES
COMLAB	4.71	-0.80	9.74	-0.47	17.73	-0.67	15.35	-0.50	26.57	-0.38	24.04	-0.16	AR	ICP-ES
COMLAB	4.72	-0.74	9.68	-0.64	17.56	-0.96	15.13	-0.80	25.67	-1.51	22.73	-1.85	CSA	IR
COMLAB	4.76	-0.48	10.06	0.43	20.34	3.00	17.45	2.38	29.36	3.00	25.79	2.09		
COMLAB	4.61	-1.45	9.73	-0.50	17.41	-1.21	15.20	-0.70	26.14	-0.92	23.43	-0.95	FUS	XRF
MINELAB	3.54	-3.00	8.36	-3.00	16.20	-3.00	13.10	-3.00	20.40	-3.00	22.90	-1.63	FUS	ICP-ES
MINELAB	5.64	3.00	9.45	-1.29	18.35	0.37	15.32	-0.54	28.18	1.64	24.75	0.75	CSA	IR
MINELAB	4.31	-3.00	8.79	-3.00	16.05	-3.00	14.02	-2.31	24.33	-3.00	21.71	-3.00	CLAS	
MINELAB	4.75	-0.55	9.75	-0.44	17.98	-0.25	15.57	-0.19	26.95	0.09	24.34	0.22	GRAV	
MINELAB	5.30	3.00	10.40	1.39	18.00	-0.22	15.90	0.26	27.10	0.28	24.50	0.43	CSA	IR
MINELAB	4.85	0.10	9.84	-0.19	18.10	-0.05	15.70	-0.02	26.98	0.13	24.47	0.39	CSA	
MINELAB	4.89	0.36	9.78	-0.36	18.04	-0.15	15.63	-0.11	26.96	0.11	24.41	0.31	GRAV	
MINELAB	4.78	-0.35	9.39	-1.46	17.30	-1.39	14.20	-2.07	27.70	1.04	24.10	-0.09	AD	ICP-ES
MINELAB	4.90	0.42	9.80	-0.30	17.90	-0.39	15.40	-0.43	26.90	0.03	24.00	-0.22	FUS, CSA	AAS
MINELAB	4.96	0.81	9.77	-0.39	19.10	1.63	16.60	1.21	28.00	1.41	25.20	1.33	AR	ICP-ES
MINELAB	4.83	-0.03	9.76	-0.41	17.66	-0.79	15.32	-0.54	26.79	-0.11	23.75	-0.54	FUS	IR
MINELAB	4.96	0.81	10.17	0.74	18.60	0.79	16.21	0.68	27.91	1.30	25.13	1.24	CSA	IR
MINELAB	4.74	-0.61	9.98	0.21	18.70	0.96	16.00	0.39	27.60	0.91	25.10	1.20	1A	IR
MINELAB	4.90	0.42	10.10	0.54	18.60	0.79	16.00	0.39	27.50	0.79	24.50	0.43	FUS	IR
MINELAB	4.72	-0.74	>5.00	ald	>5.00	ald	>5.00	ald	>5.00	ald	>5.00	ald	3A	ICP-ES
MINELAB	4.89	0.36	10.80	2.52	20.47	3.00	17.12	1.93	29.71	3.00	27.56	3.00	CSA	IR
MINELAB	4.56	-1.77	9.44	-1.32	17.30	-1.39	14.90	-1.11	25.55	-1.67	22.70	-1.89	FUS	XRF
MINELAB	4.87	0.23	9.65	-0.72	17.71	-0.71	15.34	-0.51	25.01	-2.34	18.68	-3.00	3A	ICP-MS

Highlighted values are outliers which are assigned a z-score of -3.00 or 3.00 in the standardised values



Sulphur Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - October 2009

Standard Reference	GS909-1	GS909-2	GS909-3	GS909-4	GS909-5	GS909-6	GS909-7	GS909-8	GS909-9	GS909-10
MEAN (%)	24.14	1.66	0.70	0.92	0.16	6.54	15.78	33.85	0.34	0.29
STDEV (%)	1.12	0.10	0.05	0.07	0.02	0.22	0.70	1.40	0.03	0.02
95% CI (%)	0.27	0.02	0.01	0.02	0.01	0.05	0.17	0.35	0.01	0.01
95% CI (rel %)	1.13%	1.40%	1.61%	1.88%	3.24%	0.83%	1.10%	1.04%	2.38%	2.04%
MIN (%)	21.10	1.45	0.57	0.76	0.11	5.98	13.97	30.16	0.27	0.23
MEDIAN (%)	24.29	1.65	0.70	0.91	0.16	6.52	15.75	34.01	0.34	0.29
MAX (%)	26.70	1.91	0.80	1.12	0.22	6.97	17.24	37.70	0.42	0.34
IQR (%)	1.15	0.11	0.05	0.07	0.02	0.25	0.77	1.62	0.04	0.03
COUNT	66	68	66	69	64	64	64	62	67	65

Standard Reference	GS909-1		GS909-2		GS909-3		GS909-4		GS909-5		GS909-6		GS909-7		GS909-8		GS909-9		GS909-10		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
COMLAB	23.90	-0.21	1.54	-1.24	0.68	-0.42	0.84	-1.08	0.15	-0.60	6.52	-0.08	15.40	-0.54	32.60	-0.89	0.32	-0.64	0.29	0.05	CSA	IR
COMLAB	25.24	0.99	1.68	0.20	0.73	0.65	0.93	0.16	0.16	-0.13	6.43	-0.49	15.94	0.23	35.35	1.07	0.33	-0.34	0.28	-0.37	CSA	IR
COMLAB	24.30	0.15	1.78	1.24	0.77	1.51	0.99	0.98	0.18	0.81	6.50	-0.17	16.40	0.89	32.90	-0.68	0.41	2.03	0.31	0.88	CSA	IR
COMLAB	26.70	2.29	1.82	1.65	0.75	1.08	0.97	0.71	0.17	0.34	6.93	1.79	16.47	0.99	35.53	1.20	0.36	0.55	0.31	0.88	CSA	IR
COMLAB	25.60	1.31	1.82	1.65	0.72	0.46	0.99	1.04	0.19	1.46	7.32	3.00	17.10	1.88	34.80	0.68	0.39	1.46	0.30	0.59	CSA	IR
COMLAB	24.60	0.41	1.66	0.00	0.75	1.08	0.95	0.43	0.16	-0.13	6.60	0.28	15.70	-0.11	34.40	0.39	0.35	0.25	0.28	-0.37	CSA	IR
COMLAB	24.50	0.33	1.73	0.72	0.75	1.08	0.94	0.29	0.17	0.34	6.72	0.83	15.80	0.03	34.60	0.53	0.36	0.55	0.30	0.46	CSA	IR
COMLAB	25.10	0.86	1.74	0.82	0.77	1.51	0.94	0.29	0.17	0.34	6.65	0.51	16.40	0.89	35.20	0.96	0.36	0.55	0.28	-0.37	CSA	IR
COMLAB	25.40	1.13	1.85	-0.11	0.72	0.44	0.94	0.29	0.15	-0.60	6.48	-0.27	16.20	0.60	35.20	0.96	0.30	-1.23	0.28	-0.37	FUS	IR
COMLAB	24.30	0.15	1.66	0.00	0.70	0.01	0.95	0.43	0.15	-0.60	6.50	-0.17	15.30	-0.68	34.10	0.18	0.32	-0.64	0.27	-0.78	CSA	IR
COMLAB	24.80	0.59	1.62	-0.42	0.69	-0.21	0.91	-0.12	0.17	0.34	6.59	0.24	16.65	1.24	34.30	0.32	0.34	-0.05	0.28	-0.37	CSA	IR
COMLAB	24.10	-0.03	1.63	-0.31	0.69	-0.21	0.91	-0.12	0.15	-0.60	6.26	-1.27	15.50	-0.40	33.70	-0.11	0.29	-1.53	0.32	-1.29	CSA	IR
COMLAB	24.80	0.59	1.65	-0.16	0.69	-0.32	0.87	-0.74	0.16	-0.13	6.65	0.49	15.75	-0.04	34.25	0.29	0.32	-0.64	0.28	-0.37	CSA	IR
COMLAB	23.53	-0.54	1.57	-0.93	0.71	0.22	0.88	-0.53	0.15	-0.60	6.51	-0.13	15.40	-0.44	32.75	-0.78	0.34	-0.05	0.31	0.88	CSA	IR
COMLAB	24.59	0.40	1.61	-0.52	0.70	-0.10	0.91	-0.19	0.17	0.53	6.69	0.67	15.79	0.02	34.20	0.25	0.34	-0.14	0.30	0.25	CSA	IR
COMLAB	24.90	0.68	1.60	-0.62	0.66	-0.85	0.85	-0.94	0.13	-1.53	6.51	-0.13	16.20	0.60	34.60	0.53	0.27	-2.12	0.24	-2.03	CSA	IR
COMLAB	22.60	-1.37	1.74	0.82	0.75	1.08	0.94	0.29	0.26	3.00	6.48	-0.27	13.30	-3.00	34.90	0.75	0.42	2.32	0.37	3.00	CSA	IR
COMLAB	24.10	-0.03	1.68	0.20	0.69	-0.21	0.89	-0.39	0.14	-1.06	6.38	-0.72	15.10	-0.97	34.00	0.11	0.33	-0.34	0.28	-0.37	CSA	IR
COMLAB	25.22	0.97	1.83	1.75	0.88	3.00	1.02	1.39	0.29	3.00	6.46	-0.36	16.13	0.50	34.19	0.24	0.42	2.32	0.37	3.00	CSA	IR
COMLAB	24.10	-0.03	1.58	-0.83	0.68	-0.42	0.91	-0.12	0.14	-1.06	6.85	1.43	15.57	-0.30	33.66	-0.14	0.28	-1.82	0.26	-1.20	CSA	IR
COMLAB	21.82	-2.07	1.62	-0.46	0.69	-0.32	0.89	-0.42	0.16	-0.03	6.61	0.31	12.39	-3.00	24.77	-3.00	0.28	-1.76	0.24	-1.99	CSA	IR
COMLAB	24.05	-0.08	1.52	-1.45	0.67	-0.64	0.94	0.29	0.24	3.00	6.56	0.10	15.93	0.21	28.90	-3.00	0.33	-0.34	0.20	-3.00	CSA	IR
COMLAB	24.77	0.57	1.66	-0.03	0.80	2.20	0.85	-0.96	0.15	-0.83	6.81	1.23	16.62	1.20	35.55	1.21	0.35	0.10	0.30	0.50	CSA	IR
COMLAB	24.60	0.41	1.67	0.10	0.72	0.44	0.91	-0.12	0.17	0.34	6.48	-0.27	15.70	-0.11	32.90	-0.68	0.35	0.25	0.30	0.46	CSA	IR
COMLAB	23.00	-1.01	1.61	-0.52	0.70	0.01	0.93	0.16	0.16	-0.13	5.98	-2.55	14.31	-2.10	32.77	-0.77	0.37	0.84	0.30	0.46	CSA	IR
COMLAB	22.45	-1.50	1.78	1.24	7.55	3.00	1.08	2.22	0.20	1.74	6.94	1.84	17.22	2.06	34.02	0.12	0.35	0.25	0.32	1.29	AR GRAV	
COMLAB	23.17	-0.86	1.60	-0.62	0.70	0.01	0.93	0.16	0.18	0.81	6.32	-1.00	15.34	-0.63	33.12	-0.52	0.35	0.25	0.28	-0.37	CSA	IR
COMLAB	24.61	0.42	1.09	3.00	0.60	-2.14	0.76	-2.18	0.20	1.74	6.87	1.52	15.73	-0.07	34.63	0.56	0.47	3.00	0.39	3.00	CSA	IR
COMLAB	24.40	0.24	1.70	0.41	0.74	0.87	0.96	0.57	0.18	0.81	6.73	0.88	16.00	0.31	34.10	0.18	0.35	0.25	0.30	0.46	CSA	IR
COMLAB	23.70	-0.39	1.65	-0.11	0.71	0.26	0.94	0.24	0.16	-0.36	6.42	-0.54	15.50	-0.40	33.60	-0.18	0.33	-0.31	0.28	-0.53	CSA	IR
COMLAB	28.60	3.00	1.51	-1.55	0.89	3.00	1.12	2.77	0.22	2.68	6.58	0.19	17.10	1.88	37.70	2.74	0.39	1.43	0.33	1.71	CSA	IR
COMLAB	23.60	-0.48	1.66	0.00	0.70	0.01	0.95	0.43	0.15	-0.60	6.97	1.97	15.00	-1.11	33.20	-0.46	0.27	-2.12	0.27	-0.78	CSA	IR
COMLAB	nr	nr	1.36	-3.00	1.16	3.00	0.84	-1.07	0.14	-1.16	6.07	-2.14	nr	nr	nr	nr	0.37	0.96	0.30	0.42	CSA	IR
COMLAB	25.33	1.07	1.65	-0.11	0.72	0.44	0.94	0.29	0.16	-0.13	6.75	0.97	16.18	0.57	35.70	1.32	0.31	-0.93	0.28	-0.37	CSA	IR
COMLAB	24.50	0.33	1.52	-1.45	0.63	-1.43	0.78	-1.92	0.11	-2.56	6.60	-0.28	15.60	-0.26	33.60	-0.18	0.24	-3.00	0.23	-2.40	CSA	IR
COMLAB	24.10	-0.03	1.67	0.10	0.65	-1.07	0.91	-0.12	0.18	0.81	6.92	1.75	15.20	-0.83	33.70	-0.11	0.32	-0.64	0.26	-1.20	CSA	IR
COMLAB	26.00	1.66	1.65	-0.11	0.72	0.50	0.95	0.42	0.17	0.29	6.36	-0.81	15.20	-0.83	35.83	1.41	0.33	-0.43	0.29	-0.16	CSA	IR
COMLAB	24.30	0.15	1.66	0.00	0.72	0.48	0.94	0.28	0.17	0.34	6.48	-0.27	16.00	0.31	34.10	0.18	0.34	-0.05	0.29	-0.16	CSA	IR
COMLAB	23.50	-0.57	1.67	0.10	0.73	0.67	0.89	-0.34	0.18	0.95	6.26	-1.27	15.70	-0.11	30.80	-2.17	0.40	1.61	0.30	0.42	FUS	IR
COMLAB	23.40	-0.66	1.75	0.93	0.71	0.22	0.98	0.84	0.18	0.81	6.22	-1.45	14.80	-1.40	31.90	-1.39	0.35	0.25	0.31	0.88	CSA	IR
COMLAB	24.85	0.64	1.64	-0.21	0.69	-0.21	0.89	-0.39	0.16	-0.13	6.44	-0.45	15.91	0.19	33.72	-0.09	0.33	-0.34	0.30	0.46	CSA	IR
COMLAB	24.09	-0.04	1.71	0.51	0.73	0.65	0.89	-0.39	0.17	0.34	6.58	0.19	15.94	0.23	34.52	0.48	0.35	0.25	0.30	0.46	CSA	IR
COMLAB	21.69	-2.19	1.46	-2.04	0.65	-1.11	0.84	-1.12	0.27	3.00	5.78	-3.00	13.97	-2.59	30.16	-2.63	0.40	1.64	0.34	2.25	CSA	IR
COMLAB	23.65	-0.43	1.71	0.51	0.76	1.30	0.98	0.84	0.19	1.28	6.51	-0.13	15.58	-0.28	33.35	-0.36	0.38	1.14	0.33	1.71	CSA	IR
COMLAB	22.55	-1.41	1.69	0.31	5.20	3.00	0.76	-2.18	11.55	3.00	6.45	-0.40	15.35	-0.61	31.69	-1.54	0.46	0.55	0.54	-3.00	GRAV	
MINELAB	23.70	-0.39	1.91	2.58	0.62	-1.71	0.62	-3.00	0.15	-0.60	5.44	-3.00	12.90	-3.00	30.50	-2.39	0.22	-3.00	0.25	-1.61	CSA	





## Carbon Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - October 2009

Standard Reference	GS909-1	GS909-2	GS909-3	GS909-4	GS909-5	GS909-6	GS909-7	GS909-8	GS909-9	GS909-10
MEAN (%)	0.15	0.44	1.33	1.04	0.16	0.30	0.14	0.22	0.65	0.27
STDEV (%)	0.04	0.03	0.05	0.06	0.02	0.04	0.02	0.03	0.04	0.03
95% CI (%)	0.01	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
95% CI (rel %)	8.54%	2.06%	1.27%	1.72%	4.79%	3.81%	5.43%	3.93%	1.80%	3.46%
MIN (%)	0.06	0.39	1.23	0.91	0.12	0.22	0.10	0.15	0.57	0.21
MEDIAN (%)	0.15	0.44	1.34	1.03	0.16	0.30	0.14	0.22	0.65	0.27
MAX (%)	0.24	0.50	1.47	1.18	0.22	0.36	0.20	0.28	0.73	0.35
IQR (%)	0.04	0.05	0.07	0.07	0.02	0.05	0.03	0.03	0.05	0.03
COUNT	38	38	38	39	39	40	39	38	40	43

Standard Reference	GS909-1		GS909-2		GS909-3		GS909-4		GS909-5		GS909-6		GS909-7		GS909-8		GS909-9		GS909-10		Method	Reading
	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
COMLAB	0.13	-0.46	0.42	-0.85	1.33	-0.08	1.04	0.03	0.15	-0.55	0.29	-0.25	0.12	-0.91	0.20	-0.69	0.63	-0.57	0.25	-0.78	CSA	IR
COMLAB	0.13	-0.46	0.44	-0.14	1.35	0.30	1.06	0.39	0.15	-0.55	0.30	0.03	0.14	-0.08	0.22	0.07	0.65	-0.03	0.27	-0.15	CSA	IR
COMLAB	0.70	3.00	0.41	-1.20	1.32	-0.27	0.80	3.00	0.06	3.00	0.33	0.85	0.46	3.00	0.21	-0.31	0.68	0.77	0.22	-1.74	CSA	IR
COMLAB	0.15	0.05	0.47	0.91	1.38	0.87	1.10	1.10	0.17	0.27	0.34	1.13	0.15	0.33	0.24	0.82	0.69	1.04	0.29	0.49	CSA	IR
COMLAB	0.13	-0.46	0.43	-0.50	1.34	0.11	1.01	-0.50	0.14	-0.95	0.29	-0.25	0.12	-0.91	0.19	-1.06	0.65	-0.03	0.25	-0.78	CSA	IR
COMLAB	0.13	-0.46	0.47	0.91	1.36	0.49	1.10	1.10	0.17	0.27	0.29	-0.25	0.13	-0.49	0.23	0.44	0.69	1.04	0.27	-0.15	CSA	IR
COMLAB	0.16	0.31	0.43	-0.50	1.33	-0.08	1.05	0.21	0.15	-0.55	0.31	0.30	0.12	-0.91	0.20	-0.69	0.64	-0.30	0.26	-0.46	FUS	IR
COMLAB	0.19	1.07	0.44	-0.14	1.33	-0.08	1.05	0.21	0.15	-0.55	0.34	1.13	0.14	-0.08	0.22	0.07	0.68	0.77	0.29	0.49	CSA	IR
COMLAB	0.15	0.05	0.46	0.56	1.37	0.68	1.08	0.75	0.17	0.27	0.32	0.58	0.13	-0.49	0.22	0.07	0.67	0.51	0.27	-0.15	CSA	IR
COMLAB	0.16	0.31	0.44	-0.14	1.34	0.11	1.03	-0.15	0.16	-0.14	0.33	0.85	0.15	0.33	0.24	0.82	0.64	-0.30	0.28	0.17	CSA	IR
COMLAB	0.12	-0.71	0.41	-1.20	1.29	-0.84	1.01	-0.50	0.14	-0.95	0.30	0.03	0.13	-0.49	0.20	-0.69	0.62	-0.83	0.24	-1.10	CSA	IR
COMLAB	0.16	0.31	0.45	0.21	1.27	-1.22	1.02	-0.32	0.18	0.67	0.32	0.58	0.15	0.33	0.24	0.82	0.63	-0.57	0.29	0.49	CSA	IR
COMLAB	0.15	0.05	0.44	-0.14	1.35	0.30	0.95	-1.57	0.22	2.30	0.22	-2.17	0.12	-0.91	0.22	0.07	0.66	0.24	0.21	-2.06	CSA	IR
COMLAB	0.10	-1.22	0.40	-1.55	1.41	1.44	1.18	2.53	0.13	-1.36	0.24	-1.62	0.11	-1.32	0.18	-1.44	0.60	-1.37	0.23	-1.42	CSA	IR
COMLAB	0.27	3.00	0.62	3.00	1.34	0.11	1.04	0.03	0.21	1.89	0.51	3.00	0.26	3.00	0.36	3.00	0.71	1.58	0.33	1.76	CSA	IR
COMLAB	0.10	-1.22	0.41	-1.20	1.31	-0.46	1.02	-0.32	0.14	-0.95	0.27	-0.80	0.11	-1.32	0.18	-1.44	0.63	-0.57	0.24	-1.10	CSA	IR
COMLAB	0.15	0.05	0.44	-0.14	1.35	0.30	1.07	0.57	0.17	0.27	0.27	-0.80	0.15	0.33	0.21	-0.31	0.65	-0.03	0.27	-0.15	CSA	IR
COMLAB	0.46	3.00	0.40	-1.55	1.31	-0.46	1.01	-0.50	0.16	-0.14	0.24	-1.62	0.17	1.15	0.15	-2.56	0.62	-0.83	0.25	-0.78	CSA	IR
COMLAB	0.12	-0.71	0.39	-1.91	1.23	-1.98	0.97	-1.21	0.16	-0.14	0.28	-0.52	0.15	0.33	0.23	0.44	0.59	-1.64	0.26	-0.46	CSA	IR
COMLAB	<0.05	blid	0.14	3.00	1.05	3.00	0.83	3.00	<0.05	blid	<0.05	blid	<0.05	blid	<0.05	blid	0.41	3.00	<0.05	blid	CSA	IR
COMLAB	0.16	0.31	0.45	0.21	1.32	-0.27	1.23	3.00	0.18	0.67	0.33	0.85	0.16	0.74	0.26	1.57	0.73	2.11	0.30	0.81	CSA	IR
COMLAB	0.24	2.35	0.32	3.00	0.91	3.00	0.78	3.00	0.12	-1.77	0.22	-2.17	0.18	1.57	0.30	3.00	0.50	3.00	0.27	-0.15	CSA	IR
COMLAB	26.60	3.00	1.51	3.00	0.89	3.00	1.01	-0.50	0.22	2.30	6.35	3.00	15.80	3.00	35.80	3.00	0.39	3.00	0.33	1.76	CSA	IR
COMLAB	0.15	0.05	0.44	-0.14	1.28	-1.03	1.01	-0.50	0.18	0.67	0.32	0.58	0.15	0.33	0.23	0.44	0.64	-0.30	0.29	0.49	CSA	IR
COMLAB	0.12	-0.64	0.44	-0.18	0.61	3.00	0.96	-1.41	0.16	0.02	0.29	-0.30	0.14	-0.25	0.20	-0.57	0.59	-1.64	0.27	-0.02	CSA	IR
COMLAB	0.12	-0.71	0.55	3.00	1.52	3.00	1.24	3.00	0.16	-0.14	0.36	1.68	0.14	-0.08	0.22	0.07	0.77	3.00	0.26	-0.46	CSA	IR
COMLAB	0.13	-0.35	0.41	-1.16	1.28	-1.03	1.01	-0.50	0.16	-0.26	0.28	-0.41	0.14	-0.25	0.20	-0.54	0.62	-0.92	0.25	-0.85	CSA	IR
COMLAB	0.12	-0.71	0.47	0.91	1.30	-0.65	0.99	-0.86	0.12	-1.77	0.27	-0.80	0.10	-1.73	0.22	0.07	0.63	-0.57	0.26	-0.46	CSA	IR
COMLAB	0.13	-0.46	0.43	-0.46	1.33	-0.04	1.05	0.16	0.15	-0.75	0.29	-0.28	0.13	-0.66	0.20	-0.69	0.64	-0.35	0.26	-0.56	CSA	IR
COMLAB	0.23	2.04	0.44	-0.25	1.40	1.25	1.11	1.28	0.16	-0.34	0.30	0.14	0.17	1.15	0.32	3.00	0.64	-0.22	0.27	-0.31	CSA	IR
COMLAB	0.14	-0.20	0.48	1.27	1.39	1.06	1.12	1.46	0.17	0.27	0.33	0.85	0.14	-0.08	0.23	0.44	0.69	1.04	0.29	0.49	CSA	IR
COMLAB	0.14	-0.20	0.45	0.21	1.30	-0.65	1.03	-0.15	0.16	-0.14	0.31	0.30	0.15	0.33	0.22	0.07	0.62	-0.83	0.27	-0.15	CSA	IR
COMLAB	0.09	-1.48	0.45	0.21	1.42	1.62	1.10	1.10	0.15	-0.55	0.29	-0.25	0.10	-1.73	0.18	-1.44	0.67	0.51	0.26	-0.46	CSA	IR
COMLAB	0.17	0.44	0.41	-1.09	1.23	-1.98	0.97	-1.18	0.18	0.51	0.29	-0.14	0.16	0.87	0.22	0.03	0.61	-1.10	0.26	-0.37	CSA	IR
COMLAB	0.10	-1.22	0.41	-1.20	1.34	0.11	1.02	-0.32	0.14	-0.95	0.27	-0.80	0.11	-1.32	0.21	-0.31	0.63	-0.57	0.25	-0.78	CSA	IR
MINELAB	0.20	1.33	0.49	1.62	1.24	-1.79	1.00	-0.68	0.24	3.00	0.34	1.13	0.20	2.39	0.27	1.95	0.64	-0.30	0.33	1.76	CSA	IR
MINELAB	0.23	2.15	0.58	3.00	1.15	3.00	0.91	-2.21	0.24	3.00	0.31	0.27	0.14	0.12	0.34	3.00	0.65	0.00	0.35	2.46	CSA	IR
MINELAB	0.18	0.77	0.49	1.69	1.37	0.73	1.08	0.80	0.20	1.57	0.35	1.38	0.17	1.24	0.26	1.38	0.70	1.34	0.31	1.25	CSA	IR
MINELAB	0.20	1.33	0.46	0.56	1.32	-0.27	0.95	-1.57	0.15	-0.55	0.30	0.03	0.17	1.15	0.23	0.44	0.71	1.58	0.28	0.17	CSA	IR
MINELAB	0.12	-0.71	0.48	1.27	1.47	2.57	1.02	-0.32	0.14	-0.95	0.24	-1.62	0.11	-1.32	0.17	-1.81	0.66	0.24	0.23	-1.42	FUS	IR
MINELAB	0.06	-2.24	0.42	-0.85	1.27	-1.22	1.01	-0.50	0.14	-0.95	0.25	-1.35	0.11	-1.32	0.20	-0.69	0.61	-1.10	0.26	-0.46		
MINELAB	0.19	1.07	0.47	0.99	1.35	0.30	1.11	1.28	0.21	1.89	0.33	0.91	0.19	1.81	0.28	2.40	0.69	1.12	0.30	0.87	CSA	IR
MINELAB	0.13	-0.46	0.46	0.56	1.39	1.06	1.09	0.92	0.16	-0.14	0.31	0.30	0.13	-0.49	0.22	0.07	0.68	0.77	0.28	0.17	CSA	IR
MINELAB	<0.2	blid	0.50	1.97	1.32	-0.27	1.05	0.21	<0.2	blid	0.36	1.68	<0.2	blid	0.23	0.44	0.57	-2.18	0.33	1.76	PP	IR
MINELAB	0.15	0.05	0.44	-0.14	1.39	1.06	1.10	1.10	0.17	0.27	0.46	3.00	0.15	0.33	0.23	0.44	0.66	0.24	0.31	1.13	CSA	IR
MINELAB	0.15	0.05	0.48	1.27	1.34	0.11	1.08	0.75	0.18	0.67	0.31	0.30	0.16	0.74	0.23	0.44	0.70	1.31	0.27	-0.15	CSA	IR

Highlighted values are outliers which are assigned a z-score of -3.00 or 3.00 in the standardised values



**BECQUEREL CANADA - NEUTRON ACTIVATION ANALYSIS REPORT**

**NAA Results - Gold and Base Metals**

		G909-1	G909-2	G909-3	G909-4	G909-5	G909-6	G909-7	G909-8	G909-9	G909-10	GLG909-1	GLG909-2	GLG909-3	GLG909-4	GLG909-5	GBM909-1	GBM909-2	GBM909-3	GBM909-4	GBM909-5	GBM909-6	GBM909-7	GBM909-8	GBM909-9	GBM909-10	GBM909-11	GBM909-12	GBM909-13	GBM909-14	GBM909-15	GBM909-16	
<b>Sb</b>	ppm	-0.1	1	0.2	-0.1	-0.1	-0.1	-0.1	-0.1	1	0.9	0.8	3.1	0.8	0.2	-0.1	1.1	0.9	1.6	1	0.1	84.8	107	6	-0.1	10.1	19.3	39.8	78.9	64.4	4.1	0.4	
<b>As</b>	ppm	-0.5	0.9	0.8	-0.5	-0.5	-0.5	-0.5	-0.5	104	122	0.7	20	-0.5	3.8	-0.5	113	126	34	8.5	43	960	2000	575	-0.5	265	51.9	107	218	180	63.9	27	
<b>Ba</b>	ppm	280	290	290	280	370	280	280	400	81	80	460	-50	290	160	120	93	79	2600	-50	1200	380	150	170	-50	1400	110	97	-50	-50	-50	76	
<b>Br</b>	ppm	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	3	-1	1	-1	-1	1	-1	2	-1	
<b>Cd</b>	ppm	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	5	-2	3	-2	-2	45	91	150	150	75	-6	
<b>Ce</b>	ppm	34	41	35	23	38	36	33	35	80	90	45	-3	36	25	25	78	99	-3	6	110	43	8	50	4	50	20	17	10	15	-9	-7	
<b>Cs</b>	ppm	1.1	1.5	1.2	1.4	1.8	1.3	1.3	2.1	1.8	0.7	2.8	86.7	1.6	-0.5	-0.5	2.2	0.7	21	15	1.3	4.6	14	4.1	16	3.2	-0.5	0.7	-0.5	-0.5	1.2	0.6	
<b>Cr</b>	ppm	120	180	160	140	130	120	130	150	66	69	71	53	92	140	190	86	140	140	71	75	250	140	500	59	230	150	120	89	94	260	200	
<b>Co</b>	ppm	36	36	35	37	32	38	37	27	26	25	25	42	36	35	45	27	25	13	10	69	49	31	104	8	49	54	69	94	86	2660	1250	
<b>Eu</b>	ppm	1.3	1.6	1.4	1.7	1.3	1.3	1.4	1.2	0.7	0.9	1.1	-0.5	1.3	1.5	1.8	1	1.4	-0.5	-0.5	1.9	1	-0.5	0.9	-0.5	1.4	1.7	1.4	1.1	1.6	-0.5	-0.5	
<b>Au</b>	ppb	1080	2100	14100	7900	2900	600	528	36200	350	510	68	170	55	18	-5	357	447	1800	12900	7420	2070	4180	4280	1840	2950	124	278	461	350	143	894	
<b>Hf</b>	ppm	4	13	8	5	5	5	4	5	12	13	5	-1	5	4	4	11	13	2	5	7	3	3	4	18	3	3	3	-1	2	-1	-1	
<b>Ir</b>	ppb	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	130	150
<b>Fe</b>	%	7.9	8.8	8.2	8.2	6.8	8.3	8.1	6	1.6	1.9	6.1	1	8.5	8	10	1.6	2.1	4.8	2	7.7	5.4	3	7.2	2.1	4.9	11.5	14.5	18.9	17.4	26.4	37.5	
<b>La</b>	ppm	17	21	17	16	19	17	17	19	42	47	25	-1	19	11	11	42	51	3	4	57	21	6	25	3	26	9	8	6	7	2	6	
<b>Lu</b>	ppm	0.37	0.46	0.37	0.43	0.36	0.38	0.37	0.41	0.32	0.36	0.28	-0.05	0.4	0.41	0.47	0.54	0.62	0.14	0.28	0.77	0.38	0.16	0.38	0.22	0.26	0.54	0.45	0.33	0.35	0.2	0.12	
<b>Mo</b>	ppm	-1	31	49	36	20	13	14	41	-1	-1	7	17	7	-1	-1	-1	-1	11	50	31	7	-1	6	2	-1	-1	-1	-1	-1	39	-1	
<b>Ni</b>	ppm	36	32	39	35	32	35	38	56	27	31	30	92	42	44	44	30	30	25	15	40	1750	190	1350	15	25	36	32	-21	26	117000	24200	
<b>Rb</b>	ppm	54	62	55	55	80	54	54	93	87	64	120	2060	66	13	12	95	63	640	470	75	100	550	120	480	65	9	-5	11	8	-13	14	
<b>Sm</b>	ppm	5.4	6.1	5.6	5.3	4.9	5.6	5.4	4.4	5	5.8	4.7	0.1	5.6	5.6	5.8	5.5	6.4	1.2	1.3	10	3.9	1.2	4.4	1.4	5	4.7	4.1	2.8	3.1	0.4	1.3	
<b>Sc</b>	ppm	30.8	39.8	34.6	31.2	28.3	32.8	31.6	23.8	7.3	7.4	22.4	0.6	30.9	28.2	39.5	7	7.8	7.2	6.9	22	13.1	9.3	16.4	7.4	11.8	29.6	25	16.6	18.1	1.8	9.4	
<b>Se</b>	ppm	-1	-3	-3	-1	-1	-1	-1	-4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-3	-4	-4	-3	-1	-2	12	30	61	49	13	11	
<b>Ag</b>	ppm	4	7	20	9	7	4	7	62	-1	-1	-1	-1	2	-1	-1	1	2	3	400	18	3	1	1	101	5	23	51	131	98	12	3	
<b>Na</b>	%	2.3	2.5	2.4	2.4	2.5	2.4	2.3	2.4	0.13	0.08	2.5	1	2.2	2	2.3	0.12	0.11	1	1.1	2.3	1	1.2	1	1.1	0.09	1.8	1.5	1	1.2	0.1	0.38	
<b>Ta</b>	ppm	1.1	9	5.3	1.3	2.1	1.5	1.2	2.3	1	1.1	1.6	0.3	1.3	0.5	0.7	1.3	1.2	0.3	0.2	1.4	2.6	2	0.7	0.3	0.9	0.5	0.4	0.3	0.3	-0.2	0.2	
<b>Te</b>	ppm	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10
<b>Tb</b>	ppm	1.2	1.2	1.2	1.2	1.2	1.3	1.3	0.9	0.8	0.9	1	-0.5	1.3	1.3	1.4	0.9	0.9	-0.5	-0.5	1.7	0.5	-0.5	0.7	-0.5	0.8	1.1	1.1	-0.5	0.7	-0.5	-0.5	
<b>Th</b>	ppm	6.8	10	7.6	6.8	10.6	7.1	6.8	11.6	13.9	15	15.7	0.3	7.9	1.5	1.3	15.7	15.5	0.6	0.6	19.9	8.5	2	15.8	0.9	10	1.3	0.9	0.8	0.8	1	0.7	
<b>Sn</b>	ppm	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-120	-50	-50	-50	-50	150	340	640	520	-140	-50	
<b>W</b>	ppm	-1	12	6	2	2	1	-1	2	41	56	-1	-1	1	-1	-1	45	52	-1	-3	7	16	9	16	-1	4	-2	-3	-4	-4	-4	-4	
<b>U</b>	ppm	3.4	5	4	3.7	5.5	3.6	3.5	6.4	2.9	3.2	8.4	0.3	4.2	0.3	0.2	3	3.1	0.4	-0.3	3.8	2.8	0.8	2.3	0.5	5.6	0.3	-0.3	-0.2	-0.2	0.7	-0.3	
<b>Yb</b>	ppm	3.2	3.5	2.4	2.4	2.7	2.8	3.2	1.5	2.5	2.8	2.4	-0.5	3.4	3.1	3.5	2.6	2.6	0.8	-0.5	3.6	1.2	-0.5	1.7	1.3	1.4	2.6	2.1	-0.5	1	-1.1	-0.5	
<b>Zn</b>	ppm	120	120	110	130	110	120	120	140	-50	-50	93	110	120	120	140	30	35	700	240	150	690	30	390	30	50	20000	40700	69100	66400	26100	-50	
<b>Zr</b>	ppm	150	320	390	-100	-100	-100	150	-100	280	360	-100	-100	170	170	170	340	360	-100	-100	-210	210	-220	-100	740	220	-260	-100	-210	-210	-370	-220	

**SUMMARY REPORT OF INDIVIDUAL LABORATORY PERFORMANCE**  
**Zarazma Minerals Studies Company**

**GOLD SAMPLES**

10 samples were sent to the laboratory for Fire Assay analysis. The laboratory reported their Fire Assay results, and these contained no outliers.

10 samples were sent to the laboratory for Aqua Regia analysis. The laboratory reported their Aqua Regia results, and these contained 1 outlier.

5 samples were sent to the laboratory for Low Level Gold analysis. The laboratory reported their Low Level Gold

**Au & Ag IN CARBON SAMPLES**

The laboratory were not sent any samples for Au & Ag in carbon analysis.

**BASE METAL SAMPLES**

10 Base Metal samples were sent to the laboratory for analysis.

The laboratory reported for Silver content, and these contained 1 outlier.

The laboratory reported for Copper content, and these contained no outliers.

The laboratory reported for Nickel content, and these contained no outliers.

The laboratory reported for Arsenic content, and these contained no outliers.

**ORE GRADE BASE METAL SAMPLES**

6 Ore Grade Base Metal samples were sent to the laboratory for analysis.

The laboratory reported for Copper content, and these contained no outliers.

The laboratory reported for Lead content, and these contained no outliers.

The laboratory reported for Zinc content, and these contained no outliers.

The laboratory reported for Nickel content, and these contained no outliers.

The laboratory reported for Silver content, and these contained no outliers.

The laboratory reported for Sulphur content, and these contained no outliers.

**SULPHUR SAMPLES**

The laboratory were not sent any Sulphur samples for analysis.

---