

Geostats Laboratory Survey  
April 2014

Prepared for  
Promotional

Confidential



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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.

Kind regards,

**Stuart Romero** BSc, BEng

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**Geostats Pty Ltd, O'Connor, Western Australia.**  
**Listing of Participating Laboratories for Round Robin - April 2014**

<b>Western Australia</b>	Actlabs Pacific Pty Ltd	<b>Ireland</b>	ALSM IRELAND	Omac Laboratories - Ireland
ALSM KAL	ALS Minerals - Kalgoorlie	<b>Kyrgyz Republic</b>	ALSM KYRGYZSTAN	Stewart Assay and Environmental Laboratories LLC
ALSM METALLURGY	Amimex Laboratory	<b>Laos PDR</b>	ALSM LAOS	ALS Minerals Vientiane (Laos)
ALSM PERTH	ALS Minerals - Perth	PHU BIA LAOS	Phu Bia Mining Limited	
BV KAL	Amdel Laboratory - Kalgoorlie	SEPON LAOS	Lane Xang Minerals	
BV ULTRA TRACE	Ultra Trace Pty Ltd	<b>Liberia</b>	SGS MONROVIA	SGS Monrovia
GEKKO VICTORIA	Gekko Assay Laboratory	<b>Malaysia</b>	PENJOM MALAYSIA	Penjom Gold Mine
GEN PER	Genalysis Laboratory Services Pty Ltd	<b>Mali</b>	ALSM MALI	Groupe de Laboratoire ALS Mali SARL
GOLDEN GROVE	MMG Golden Grove	SADIOLA MALI	Sadiola Mine Site Laboratory	
KAL PER	Kalassay Group (Perth Assay Laboratory)	SGS BAMAHO	SGS Minerals Services (Bamako)	
KALGOORLIE AL	Kalassay Group (Kalgoorlie Assay Laboratory)	SGS LOULO	SGS Loulo	
LABWEST	LabWest	SGS MALI GCEX	Analabs Morila Laboratory	
MINANALYTICAL	MinAnalytical	SGS SYAMA	SGS Minerals Syama Laboratory	
NEWCREST TELFER	Newcrest Mining Limited - Telfer Gold Mine Lab	<b>Mauritania</b>	ALSM TASIAST	ALS Minerals - Tasiast
PLUTONIC MINE	Plutonic Gold Mine Assay Lab	<b>Mexico</b>	ACTLABS MEXICO	Actlabs Mexico SA de CV
SGS JUNDEE	SGS Junde	AURICO SANTA RITA	Aurico Gold - Minera Santa Rita	
SGS NEWBURN	SGS Newburn	SGM CHIHUAHUA	Centro Experimental Chihuahua	
<b>New South Wales</b>		SGM OAXACA	Centro Experimental Oaxaca	
ALSM ORANGE	ALS Minerals - Orange	<b>Mongolia</b>	ACTLABS MONGOLIA	Actlabs Asia LLC
NEWCREST ORANGE	Newcrest Laboratory Services Orange	ALSM MONGOLIA	ALS Group LLC	
SGS WYALONG	SGS Wyalong	SGS OYU TOLGOI	SGS Mongolia LLC - IMME	
<b>Northern Territory</b>		SGS ULAAN	SGS Mongolia LLC	
GRANITES	Granites Gold Mine	<b>Namibia</b>	BV NAMIBIA	Bureau Veritas Mineral Laboratories - Namibia
<b>Queensland</b>		<b>New Zealand</b>	SGS NZ MACRAES	SGS New Zealand, Macraes Laboratory
ALSM BRIS	ALS Minerals - Brisbane	SGS NZ REEFTON	SGS New Zealand, Reefton Laboratory	
ALSM MT ISA	ALS Minerals - Mt Isa	SGS NZ WAIHI	SGS New Zealand, Minerals Laboratory	
ALSM TVL	ALS Minerals - Townsville	<b>Papua New Guinea</b>	ITS MOROBE	ITS (PNG) Limited
BV MT ISA	Amdel Mt Isa	LIHIR	Lihr Gold - Minesite Laboratory	
CHEM LAB MIM	Xstrata Chemical Laboratory	<b>Peru</b>	SKYLINE LIMA	Skyline Peru SAC
EH MINE XSTR	Ernest Henry Mine Laboratory	AGO PERU	AGO Peru SAC	
FREEPOR IND	Freeport Indonesia	ALSM LIMA	ALS Peru SA	
GEN TOWNSVILLE	Genalysis Testing Services, Townsville	CERTIMIN	Certimin S.A.	
HRLTESTING	HRL Testing	CERTIMIN LA ARENA	Certimin S.A. - La Arena	
MMG CENTURY	MMG Century Mine	LAGUNAS MINE	Minera Barrick Misquichilca - Unidad Lagunas Norte	
PORGERA	Porgera Gold Mine Laboratory	NEW PERU	Minera Yanacocha SRL - Newmont Lab (Peru)	
SGS TOWNSVILLE	SGS Townsville	PIERINA MINE	Minera Barrick Misquichilca - Unidad Pierina	
<b>South Australia</b>		SGS LIMA	SGS del Peru SAC	
BHP OLYMPIC	BHP Billiton	<b>Philippines</b>	ITS McPHAR	Intertek Testing Services Philippines
BV ADL	Amdel Laboratory - Adelaide	<b>Portugal</b>	SOMINCOR	Somincor, S.A.
GEN ADEL	Genalysis Laboratory Services - Adelaide	<b>Romania</b>	ALSM ROMANIA	ALS Romania
<b>Tasmania</b>		<b>Russia</b>	ALSM CHITA	ALS Minerals - Chita
ALSM BURNIE	Burnie Research Laboratory	ALSM MOSCOW	Stewart Geochemical and Assay Ltd	
<b>Argentina</b>		IRGIREDMET RUSSIA	IRGIREDMET JSC	
ASA MENDOZA	Alex Stewart Assayers Argentina SA - Mendoz	SGS CHITA	SGS Chita	
ASA PERITO MORENO	Alex Stewart Assayers Argentina SA - Perito Moreno	TOMS RUSSIA	TOMS-Irkutsk	
VELADERO MINE	Veladero Project Assay Lab	VSEGEI RUSSIA	VSEGEI All-Russia Geological research Institute	
<b>Armenia</b>		<b>Saudi Arabia</b>	ALSM JEDDAH	ALS Minerals - Arabia
DUNDEE ARMENIA	Deno Gold Mining Company	<b>Serbia</b>	SGS BOR	SGS Bor
<b>Botswana</b>		<b>South Africa</b>	ALSM JOBURG	ALS Minerals - Johannesburg
BCL BOTSWANA	BCL Laboratory - Botswana	AR BMP	Anglo Research, Crown Mines - BMP	
MUPANE BOTS	Mupane Gold Project Lab	AR JOBURG	Anglo Research, Crown Mines - AS	
<b>Brazil</b>		INSPECTORATE RSA	Inspectorate Services Rustenburg	
SGS LF BELO HOR	SGS Geosol Laboratórios Ltda	MINTEK SA	Mintek Analytical Services Division	
<b>Bulgaria</b>		RAPPA RESEARCH	Rappa Research Laboratory	
CHELOPECH MINE	Chelopech Mine Laboratory	SCI SER	Scientific Services Pty Ltd	
<b>Burkina Faso</b>		SET POINT SA	Set Point Laboratories	
ALSM OUAGADOUGOU	Abilab Burkina SARL	SGS JOBURG	SGS South Africa Boosens	
BISSA GOLD	Bissa Gold SA	SGS PLR	Performance Laboratories (PLR)	
SEMAFO	Semafo Burkina Faso	SGS PLW	Performance Laboratories (PLW)	
SGS OUAGADOUGOU	SGS Burkina SA	SIBANYE CHARL	Sibanyegold Analytical Laboratory Driefontein Operations	
<b>Canada</b>		<b>Suriname</b>	FLAB SURINAME	Filab Suriname
ACME VAN	Acme Analytical Laboratories Ltd - Vancouver	<b>Tanzania</b>	BULYANHULU TANZ	Bulyanhulu Mine Assay Lab
ACTLABS CAN	Activation Laboratories Ltd (Canada)	NORTH MARA	North Mara Minesite Laboratory	
ACTLABS TB	Activation Laboratories Ltd - Thunder Bay	SGS MWANZA	Anglo Assay Laboratories (Tanzania) Ltd	
AGAT ONTARIO	AGAT Laboratories	TMAA TANZANIA	Tanzania Minerals Audit Agency (TMAA)	
ALSM QUEBEC	ALS Minerals (Val d'Or)	<b>Thailand</b>	CHATREE THAI	Chatree Gold Mine Laboratory
ALSM VAN	ALS Minerals - Vancouver	<b>Turkey</b>	ACME TURKEY	Acme Analytical Laboratories Ltd - Turkey
AURICO YOUNG	AuRico Gole - Young-Davidson	ALSM TURKEY	ALS Minerals - Turkey	
BARRICK VAN	Barrick Technology Centre	ANAGOLD TURK	Anagold Madencilik San Ve Tic.A.S.	
BECQUEREL-NAA	Bequerel Laboratories Inc	IAR TURKEY	Istanbul Gold Refinery Inc.	
FLIN FLON MINE	Flin Flon Mine Laboratory	KARMINE TURKEY	Karmine Karadeniz Madencilik	
HEMLO MINE	Williams Operating Corporation	KOZAGOLD KAYMAZ	Koza Gold Mine Kaymaz Laboratory	
MET-SOLVE	Met-Solve Analytical Services	KOZAGOLD TURKEY	Koza Gold Mine Laboratory	
MUSSELWHITE	Musselwhite Mine Laboratory	ONSA TURKEY	Onsa Refinery	
SGS COCHRANE	SGS Cochrane	SGS TURKEY	SGS Turkey	
SGS LAKEFIELD	SGS Lakefield (Ontario)	TUPRAG TURK	Tuprag Kisladag Gold Mine	
SGS VANCOUVER	SGS Vancouver	<b>United States of America</b>	ACTLABS	American Assay Laboratories
TSL SASKATCHEWAN	TSL Laboratories	ALSM RENO	ALS Minerals - Reno	
<b>Chile</b>		BALD MOUNT	Bald Mountain Mine Assay Lab	
ACME CHILE	Acme Analytical Laboratories Chile SA	CORTEZ MINE	Cortez JV Mine Assay Lab	
ACTLABS CHILE	Activation Laboratories Ltd (Chile)	CSAL USA	Copper State Analytical Laboratory	
ALSM SANTIAGO	ALS Minerals - Chile	FLORIN RENO	Florin Analytical Services	
BV CESMEC	Bureau Veritas Mining & Chemical Division - Cesmec	FLSMIDTH USA	FLSmith Analytical Lab	
BV GEO ANTO	Bureau Veritas Mineral Chemical Analysis - Geoanalitica	GOLD SUNLIGHT MINE	Golden Sunlight Mine Assay Lab	
BV GEO COQ	Bureau Veritas Mineral Chemical Analysis - Geoanalitica Coquimbo	GOLDSTRIKE	Barrick Analytical Laboratory	
ITS CHILE	Intertek Minerals Chile	INSPECTORATE NEV	Inspectorate Services Sparks	
<b>China</b>		MCCELLAND NEV	McClelland Laboratories, Inc.	
ALSM CHINA	ALS Minerals - Guangzhou (China)	NEW GC	Newmont Mining Corporation - Carlin Assay Lab	
ITS BEIJING	Intertek Testing Services, Ltd, Shanghai - Beijing Branch	NEW LONE	Newmont - Lone Tree Mine	
ZIJIN CHINA	Fujian Zijin Mining and Metallurgy Testing Technology Co., Ltd	NEW MET SER	Newmont Metallurgical Services	
<b>Colombia</b>		NEW TWIN CM	Newmont - Twin Creek Mine	
ACTLABS COLOMBIA	Actlabs Colombia S.A.S.	ROUND MOUNT MINE	Round Mountain Gold Assay Lab	
SGS COLOMBIA	SGS Colombia	SKYLINE ARIZONA	Skyline Assayers & Laboratories - Arizona	
<b>Congo</b>		SKYLINE NEVADA	Skyline Assayers & Laboratories - Nevada	
SGS TWANGIZA	SGS Twangiza	TURQ RIDGE MINE	Turquoise Ridge JV Mine Assay Lab	
<b>Cote d'Ivoire</b>		<b>Uruguay</b>	OMI URUGUAY	Triselco SA Laboratory
BV COTE	Bureau Veritas Mineral Laboratories Cote d'Ivoire	<b>Zambia</b>	AHK KITWE	Alfred H Knight Zambia Ltd
<b>Democratic Republic of Congo</b>		ALSM KANSANSHI	ALS Minerals - Kansanshi	
FRONTIER DRC	Frontier Mine	LUMWANA MINE	Lumwana Mine Site Lab	
SGS DIKULUSHI	Mawson West - Anvil Mining Congo	SGS KALLULUSHI	SGS Inspection Services Zambia	
SGS KINSEVERE	ANK Mining SPRL	<b>Zimbabwe</b>	ANTECH	Antech Laboratories
SGS KIPOI	SGS Laboratory - Kpoi	BINDURA ZIM	Bindura Nickel Corporation Limited	
<b>Dominican Republic</b>		SGS ZIMBABWE	Performance Laboratories Zimbabwe	
PUEBLO VIEJO	Pueblo Viejo Laboratorio	<b>Commercial Laboratory</b>		
<b>England</b>		<b>Minesite Laboratory</b>		
WARDELL ENGLAND	Wardell Armstrong	<b>Government Laboratory</b>		
WHEAL JANE ENGLAND	Wheal Jane Laboratory			
<b>Eritrea</b>				
SGS BISHA	SGS Bisha			
<b>Finland</b>				
LABTIUM FIN	Labtium Laboratories			
<b>Ghana</b>				
AG GHANA CHEM	AngloGold Ashanti - Chemical Lab			
ALSM GHANA	ALS Minerals - Ghana			
GOLD FIELDS GHANA	Gold Fields Ghana Ltd			
ITS GHANA	Intertek Minerals Ltd (Ghana)			
NEW AHAFU GHANA	Ahafo Mine Site Laboratory			
SGS OBUASI	AngloGold Ashanti - Assay Lab			
SGS TARKWA	SGS Laboratories (Tarkwa)			
<b>Greece</b>				
HELLAS GREECE	Hellas Gold			
<b>Guinea</b>				
SGS SIGUIRI	SGS Mineral Services (Guinee) SARL			
<b>Guyana</b>				
ACTLABS GUYANA	Actlabs Guyana Inc			
<b>Indonesia</b>				
GEOSERVICES IND	PT Geoservices Ltd			
ITS GOSOWONG	Gosowong Gold Project Lab			
ITS INDO	Intertek Testing Services, Jakarta			
ITS MATARAM	ITS Lab - PT Newmont Nusa Tenggara			
ITS UTAMA	Intertek Utama Services Manado			
SUCOFINDO INDO	Sucofindo Timika Laboratory			
WAY LINGGO	PT Geoservices Ltd - Way Linggo			
<b>Iran</b>				
IMPRC IRAN	Iran Mineral Processing Research Center (IMPRC)			
ZARAZMA	Zarazma Minerals Studies Company			

## REPORT ON LABORATORY SURVEY – April 2014

A round robin to measure the accuracy of gold, silver, sulphur and base metal analyses from 213 laboratories was conducted during April 2014. 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 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 Debbie D'Alessandro at [Debbie.Grota@maxxam.ca](mailto:Debbie.Grota@maxxam.ca)

### 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. However, the report groups them into Total (typically 4 acid digest or fusion) and Partial (all others, mainly aqua regia) methods. Becquerel Canada performed Neutron Activation Analysis and these have been included in the Total digest group. 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 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 (red 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 (red charts).

Bias is indicated in negative/positive column charts (blue 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	DIBK	DIBK Extraction
4A	4 Acid Digest	ES	ICP - Emission Spectroscopy
AD	Acid Digest	GRAV	Gravimetric
AR	Aqua Regia	ICP	Inductively Coupled Plasma - Unspecified
CSA	Carbon and Sulphur Analyser	IR	Infrared
FA	Fire Assay	MIBK	MIBK Extraction
FUS	Fusion	MS	ICP - Mass Spectroscopy
GF	Graphite Furnace	TITR	Titration
GRAV	Gravimetric	XRF	X-Ray Fluorescence
IH	In House Method		
MAD	Multi-Acid Digest		
MICR	Microwave		
NAA	Neutron Activation Analysis		
PP	Pressed Powder		
PR	Pre-Roast		
TITR	Titration		
VOL	Volumetric		



# CONTENTS

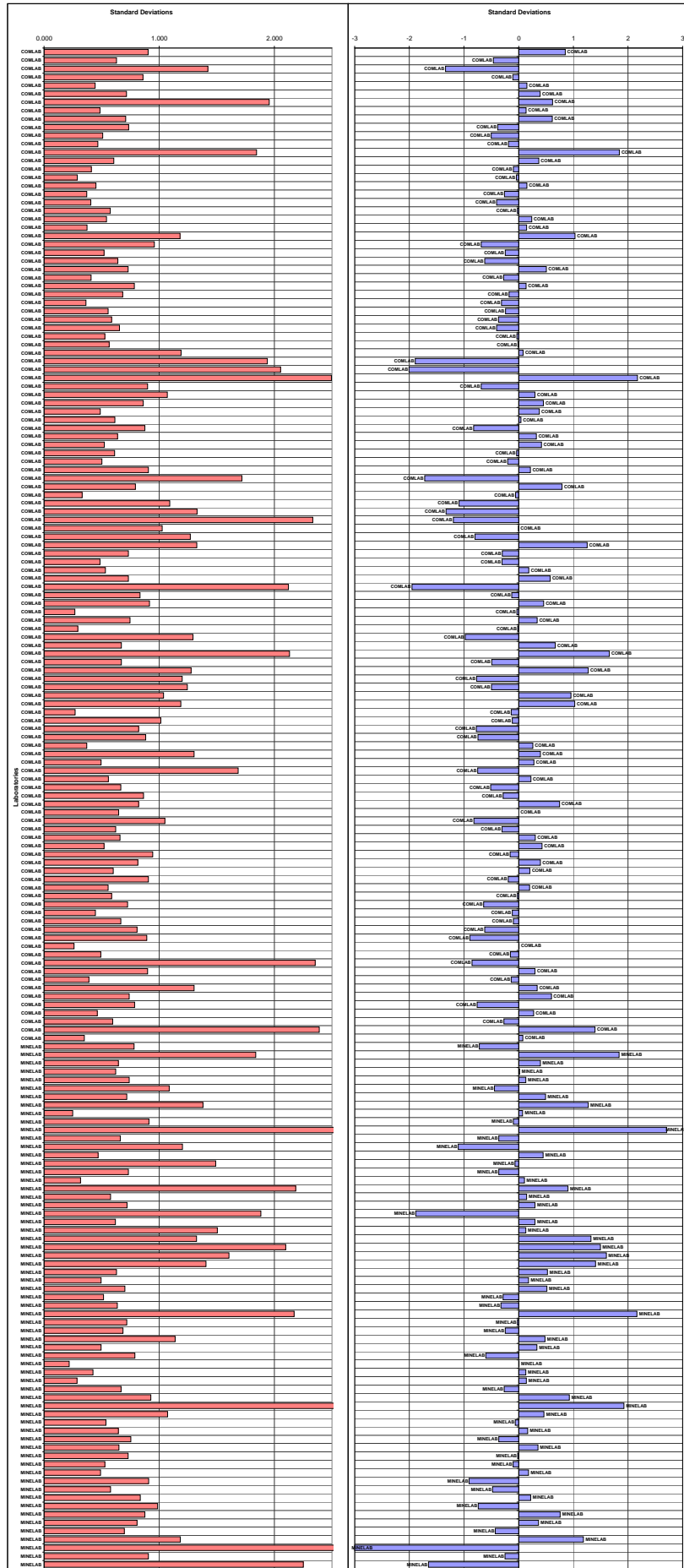
## RESULTS OF ANALYSES PRESENTED AS TABLES AND PLOTS

ANALYSIS	PAGES	DESCRIPTION
<b>GOLD SAMPLES</b>		
Fire Assay Gold	1 & 2	Summary statistics, Assays, Standardised Values and Charts
Aqua Regia Digest Gold	3 & 4	Summary statistics, Assays, Standardised Values and Charts
Low Grade Gold Analysis	5 & 6	Summary statistics, Assays, Standardised Values and Charts
<b>Au &amp; Ag IN CARBON SAMPLES</b>		
Gold On Carbon Analysis	7 & 8	Summary statistics, Assays, Standardised Values and Charts
Silver On Carbon Analysis	9 & 10	Summary statistics, Assays, Standardised Values and Charts
<b>BASE METAL SAMPLES</b>		
Silver (Total Digest) Analysis	11 & 12	Summary statistics, Assays, Standardised Values and Charts
Silver (Partial Digest) Analysis	13 & 14	Summary statistics, Assays, Standardised Values and Charts
Copper (Total Digest) Analysis	15 & 16	Summary statistics, Assays, Standardised Values and Charts
Copper (Partial Digest) Analysis	17 & 18	Summary statistics, Assays, Standardised Values and Charts
Lead (Total Digest) Analysis	19 & 20	Summary statistics, Assays, Standardised Values and Charts
Lead (Partial Digest) Analysis	21 & 22	Summary statistics, Assays, Standardised Values and Charts
Zinc (Total Digest) Analysis	23 & 24	Summary statistics, Assays, Standardised Values and Charts
Zinc (Partial Digest) Analysis	25 & 26	Summary statistics, Assays, Standardised Values and Charts
Nickel (Total Digest) Analysis	27 & 28	Summary statistics, Assays, Standardised Values and Charts
Nickel (Partial Digest) Analysis	29 & 30	Summary statistics, Assays, Standardised Values and Charts
Arsenic (Total Digest) Analysis	31 & 32	Summary statistics, Assays, Standardised Values and Charts
Arsenic (Partial Digest) Analysis	33 & 34	Summary statistics, Assays, Standardised Values and Charts
Cobalt (Total Digest) Analysis	35 & 36	Summary statistics, Assays, Standardised Values and Charts
Cobalt (Partial Digest) Analysis	37 & 38	Summary statistics, Assays, Standardised Values and Charts
<b>ORE GRADE BASE METAL SAMPLES</b>		
Copper Analysis	39 & 40	Summary statistics, Assays, Standardised Values and Charts
Lead Analysis	41 & 42	Summary statistics, Assays, Standardised Values and Charts
Zinc Analysis	43 & 44	Summary statistics, Assays, Standardised Values and Charts
Nickel Analysis	45 & 46	Summary statistics, Assays, Standardised Values and Charts
Silver Analysis	47 & 48	Summary statistics, Assays, Standardised Values and Charts
Sulphur Analysis	49 & 50	Summary statistics, Assays, Standardised Values and Charts
<b>SULPHUR SAMPLES</b>		
Sulphur Analysis	51 & 52	Summary statistics, Assays, Standardised Values and Charts
Carbon Analysis	53 & 54	Summary statistics, Assays, Standardised Values and Charts
<b>OTHER</b>		
Becquerel Analysis	55	Becquerel Gold + 33 element analysis (Gold, Base Metals)

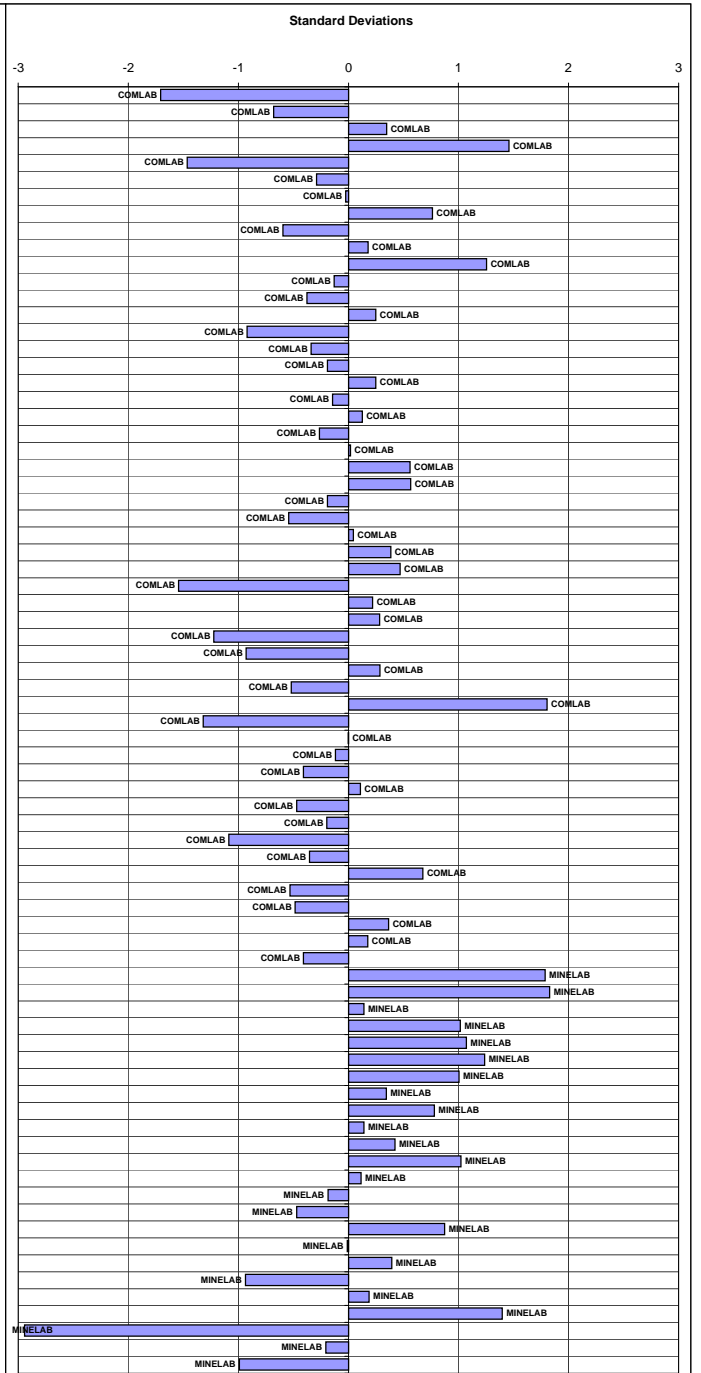
FA50 Gold Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2014

Table with 26 columns: Standard Reference, G314-1, G314-2, G314-3, G314-4, G314-5, G314-6, G314-7, G314-8, G314-9, G314-10, Method, Reading. It contains summary statistics like MEAN (ppm), STDDEV (ppm), 95% CI (ppm), and 95% CI (%), followed by two sets of assay data (G314-1 to G314-10) with z-scores and standardized values, and a final Method/Reading column.

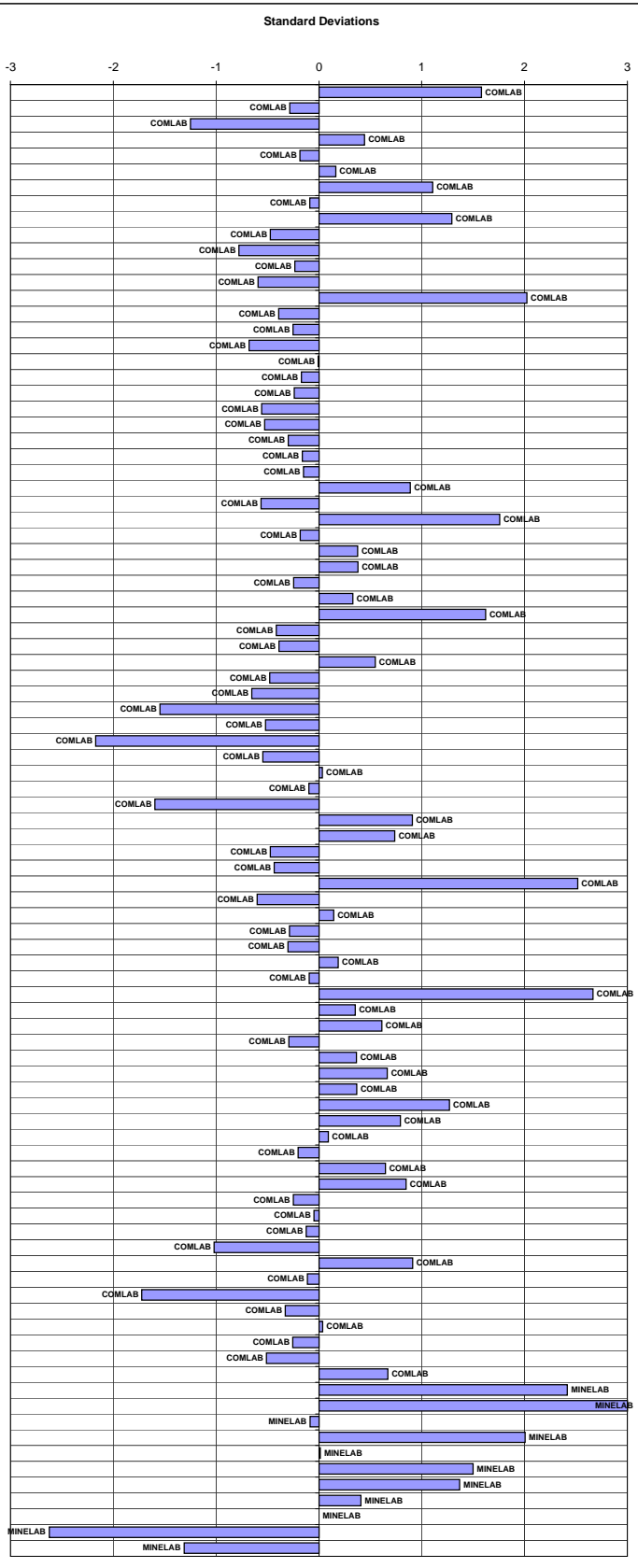
Highlighted values are outliers which are assigned a z-score of 3.00 or 3.01 in the standardised values.





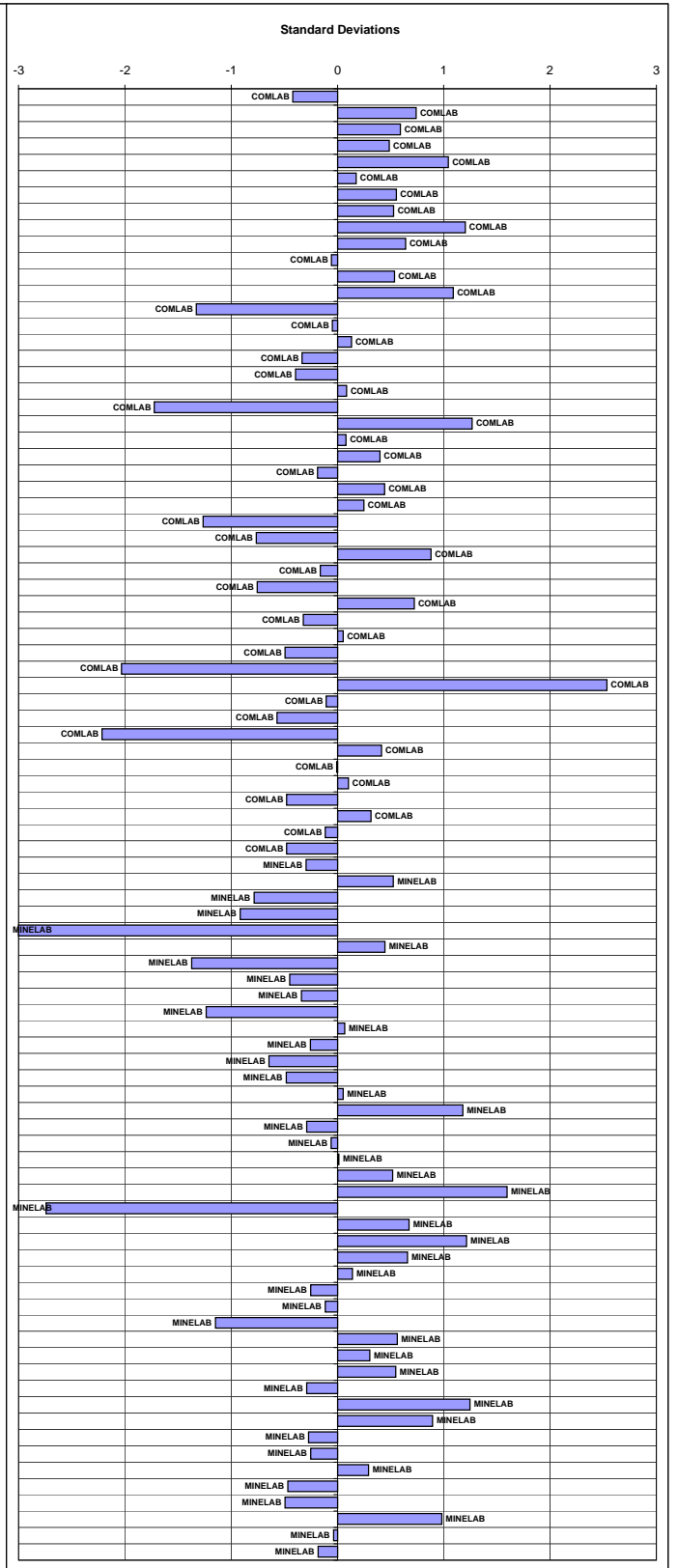










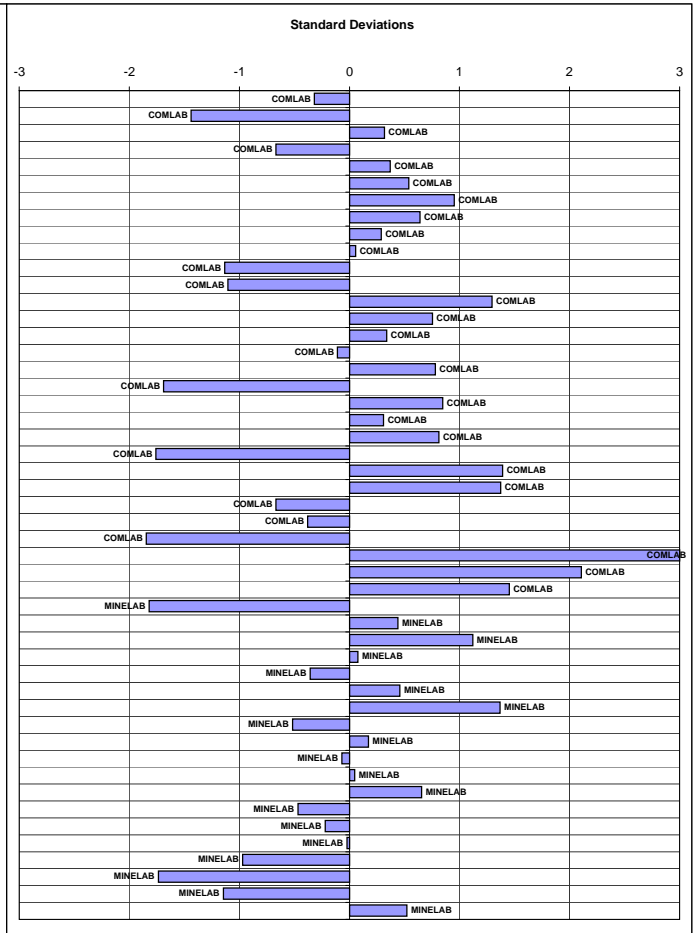


Silver on Carbon Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2014

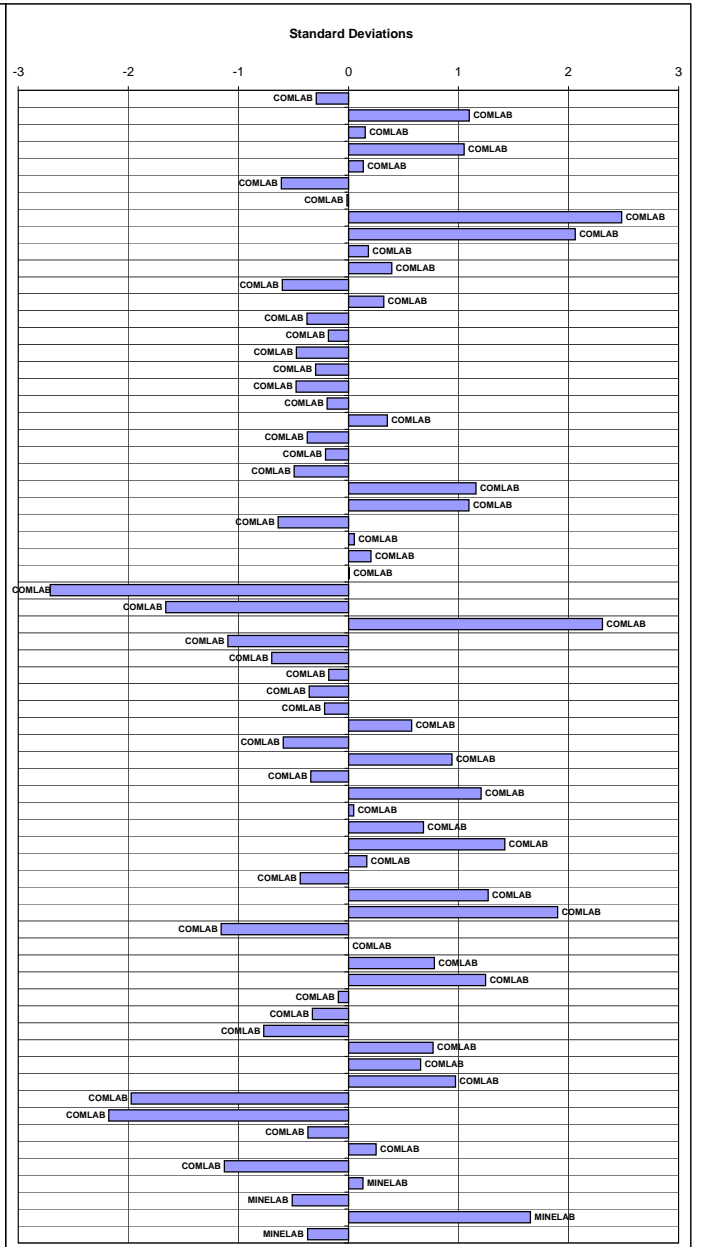
Standard Reference	GBC314-1	GBC314-2	GBC314-3	GBC314-4	GLC314-1	GLC314-2
MEAN (ppm)	38	72	134	181	953	1126
STDEV (ppm)	9	4	43	56	69	83
95% CI (ppm)	3	2	12	16	20	25
95% CI (%)	7.51%	2.13%	9.27%	8.77%	2.13%	2.20%
MIN (ppm)	20	64	47	66	795	952
MEDIAN (ppm)	40	72	143	202	956	1140
MAX (ppm)	58	81	220	283	1100	1321
IQR (ppm)	9	4	54	93	68	92
COUNT	41	28	47	48	45	44

Standard Reference	GBC314-1		GBC314-2		GBC314-3		GBC314-4		GLC314-1		GLC314-2		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
COMLAB	41	0.29	69	-0.73	153	0.46	210	0.51	922	-0.45	1060	-0.79	FA	GRAV
COMLAB	43	0.50	76	0.99	163	0.69	218	0.66	828	-1.82	599	-3.00	FA	GRAV
COMLAB	43	0.49	70	-0.49	140	0.15	125	-1.01	945	-0.12	1175	0.59	FA	GRAV
COMLAB	37	-0.14	72	0.01	137	0.08	191	0.17	742	-3.00	1220	1.14	FA	GRAV
COMLAB	47	0.93	81	2.22	160	0.62	222	0.73	929	-0.35	1170	0.54	PR,AR	AAS
COMLAB	44	0.61	77	1.24	167	0.78	228	0.84	985	0.46	1171	0.55	FA	AAS
COMLAB	52	1.47	115	3.00	196	1.46	233	0.93	1020	0.97	1160	0.41	FA	GRAV
COMLAB	47	0.93	nr	nr	160	0.62	226	0.79	986	0.48	1168	0.52	FA	GRAV
COMLAB	41	0.29	71	-0.24	143	0.22	198	0.30	982	0.42	1139	0.16	FA	GRAV
COMLAB	39	0.08	73	0.18	108	-0.60	66	-2.08	989	0.52	1090	-0.43	PR,AR	MS
COMLAB	39	0.08	70	-0.37	151	0.41	215	0.60	855	-1.42	955	-2.06	FA	GRAV
COMLAB	40	0.20	72	-0.01	149	0.37	215	0.60	856	-1.42	952	-2.10	FA	GRAV
COMLAB	105	3.00	134	3.00	195	1.43	234	0.95	985	0.47	1160	0.42	FA	GRAV
COMLAB	71	3.00	66	-1.54	139	0.13	206	0.44	922	-0.45	1102	-0.29	PR,AR	DIBK
COMLAB	42	0.44	73	0.20	152	0.43	208	0.48	981	0.41	1140	0.17	AR	AAS
COMLAB	40	0.13	68	-1.03	61	-1.70	121	-1.09	936	-0.25	1108	-0.21	PR,AR	ES
COMLAB	38	-0.04	68	-0.98	170	0.85	222	0.73	1030	1.12	1230	1.26	FA	GRAV
COMLAB	20	-1.97	36	-3.00	65	-1.60	80	-1.82	628	-3.00	1118	-0.09	AR	AAS
COMLAB	41	0.29	74	0.50	157	0.55	221	0.71	1027	1.07	1224	1.19	AR	AAS
COMLAB	42	0.44	69	-0.69	147	0.33	207	0.47	968	0.22	1148	0.27	AR	ES
COMLAB	45	0.75	81	2.16	165	0.74	225	0.77	1017	0.93	1189	0.77	FA,PR	AAS
COMLAB	22	-1.76	54	-3.00	62	-1.67	129	-0.94	>200	ald	>200	ald	AR	AAS
COMLAB	58	2.11	71	-0.24	140	0.15	194	0.23	1050	1.41	1180	0.66	PR,AR	AAS
COMLAB	70	3.00	48	-3.00	50	-1.95	90	-1.64	952	-0.02	1220	1.14	AR	AAS
COMLAB	25	-1.44	47	-3.00	97	-0.85	125	-1.01	985	0.46	1040	-1.03	PR,AR	AAS
COMLAB	27	-1.22	68	-0.98	128	-0.13	180	-0.03	966	0.19	1117	-0.10	PR,AR	ES
COMLAB	20	-1.96	34	-3.00	77	-1.32	108	-1.33	795	-2.30	1020	-1.28	FA	GRAV
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	1174	3.00	1475	3.00	FA	GRAV
COMLAB	49	1.19	86	3.00	167	0.78	273	1.65	1100	2.13	1450	3.00	PR,FUS	MS,ES
COMLAB	48	1.04	73	0.25	101	-0.76	132	-0.89	1075	1.77	1254	1.55	PR,AR	AAS
MINELAB	22	-1.72	14	-3.00	74	-1.39	83	-1.77	902	-0.74	454	-3.00	PR,AR	AAS
MINELAB	40	0.19	72	0.05	125	-0.20	144	-0.68	989	0.52	1177	0.62	PR,AR	AAS
MINELAB	71	3.00	126	3.00	191	1.34	283	1.82	951	-0.03	1158	0.39	AR	AAS
MINELAB	41	0.29	73	0.25	158	0.57	222	0.73	948	-0.07	1127	0.02	AR	AAS
MINELAB	40	0.19	74	0.43	157	0.54	216	0.62	920	-0.48	1061	-0.78	FA	GRAV
MINELAB	67	3.00	120	3.00	197	1.47	262	1.44	896	-0.84	1060	-0.79	FA	GRAV
MINELAB	36	-0.22	79	1.61	149	0.37	211	0.52	1088	1.96	1321	2.36	FA	GRAV
MINELAB	42	0.38	73	0.13	153	0.45	222	0.72	897	-0.82	1034	-1.11	FA	GRAV
MINELAB	41	0.29	72	0.01	130	-0.08	178	-0.06	952	-0.02	1146	0.25	AR	AAS
MINELAB	32	-0.68	26	-3.00	71	-1.46	106	-1.35	966	0.19	1149	0.28	PR,AR	AAS
MINELAB	<100	bid	<100	bid	102	-0.74	127	-0.98	956	0.04	1130	0.06	AR	AAS
MINELAB	<200	bid	<200	bid	220	2.01	221	0.72	994	0.60	1185	0.72	AR	AAS
MINELAB	53	1.62	98	3.00	nr	nr	182	0.01	876	-1.12	968	-1.90	FA	GRAV
MINELAB	40	0.18	68	-0.98	150	0.39	190	0.15	925	-0.41	1090	-0.43	FA	GRAV
MINELAB	40	0.18	64	-1.96	130	-0.08	166	-0.28	966	0.19	1090	-0.43	PR,AR	AAS
MINELAB	32	-0.68	38	-3.00	54	-1.86	98	-1.50	875	-1.13	1035	-1.09	AR	AAS
MINELAB	27	-1.22	51	-3.00	139	0.13	191	0.17	814	-2.02	963	-1.96	PP	XRF
MINELAB	20	-1.97	59	-3.00	129	-0.11	221	0.71	879	-1.08	1094	-0.38	FA	GRAV
MINELAB	34	-0.52	32	-3.00	47	-2.02	86	-1.72	1010	0.83	1230	1.26	PR,AR	AAS

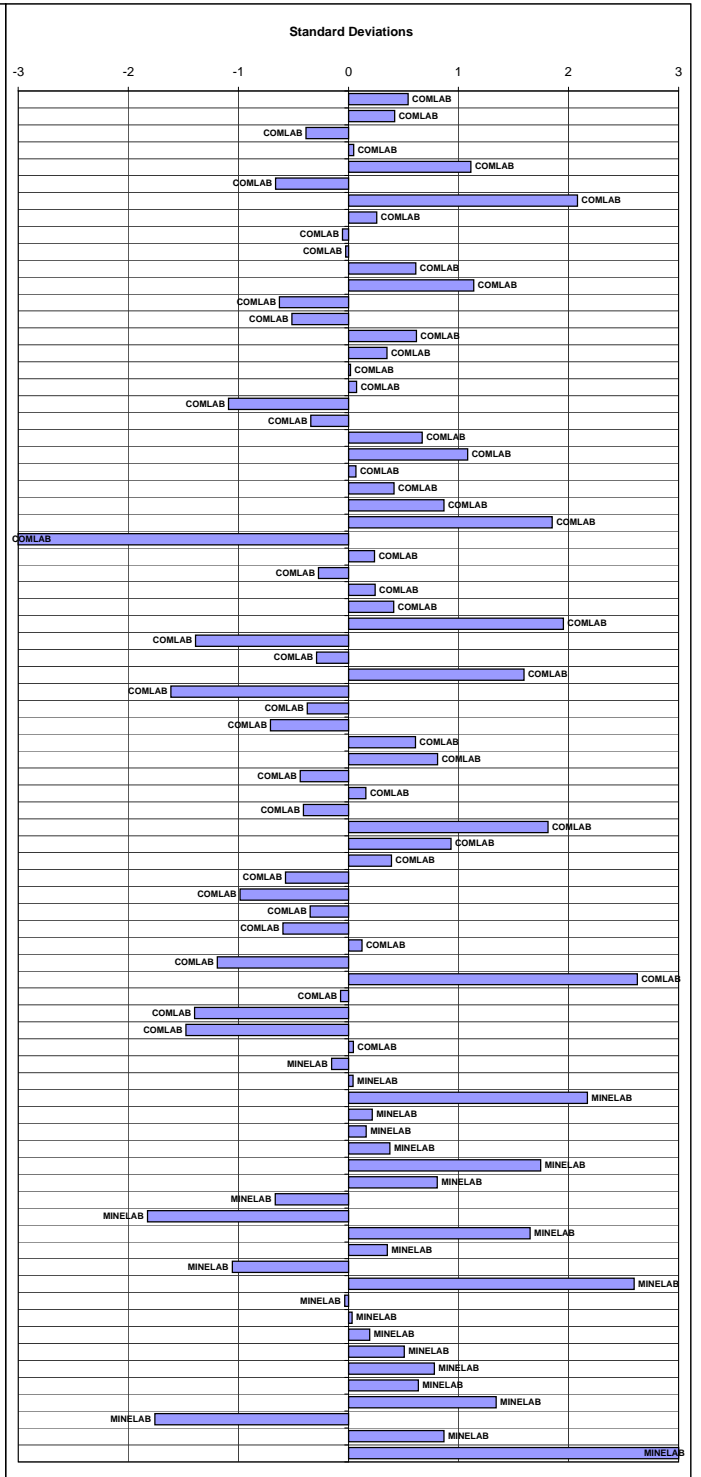
Highlighted values are outliers which are assigned a z-score of -3.00 or 3.00 in the standardised values. Insufficient reliable results were received for the highlighted materials. These results do not contribute to the error charts.





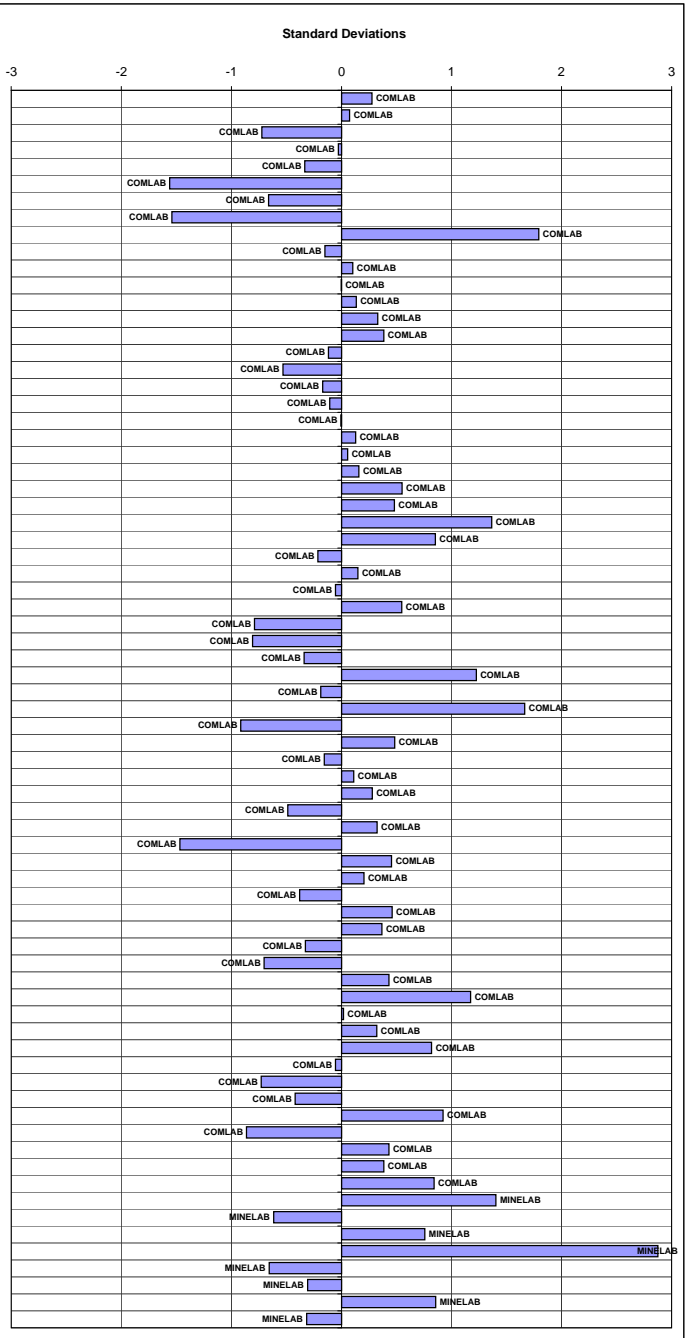




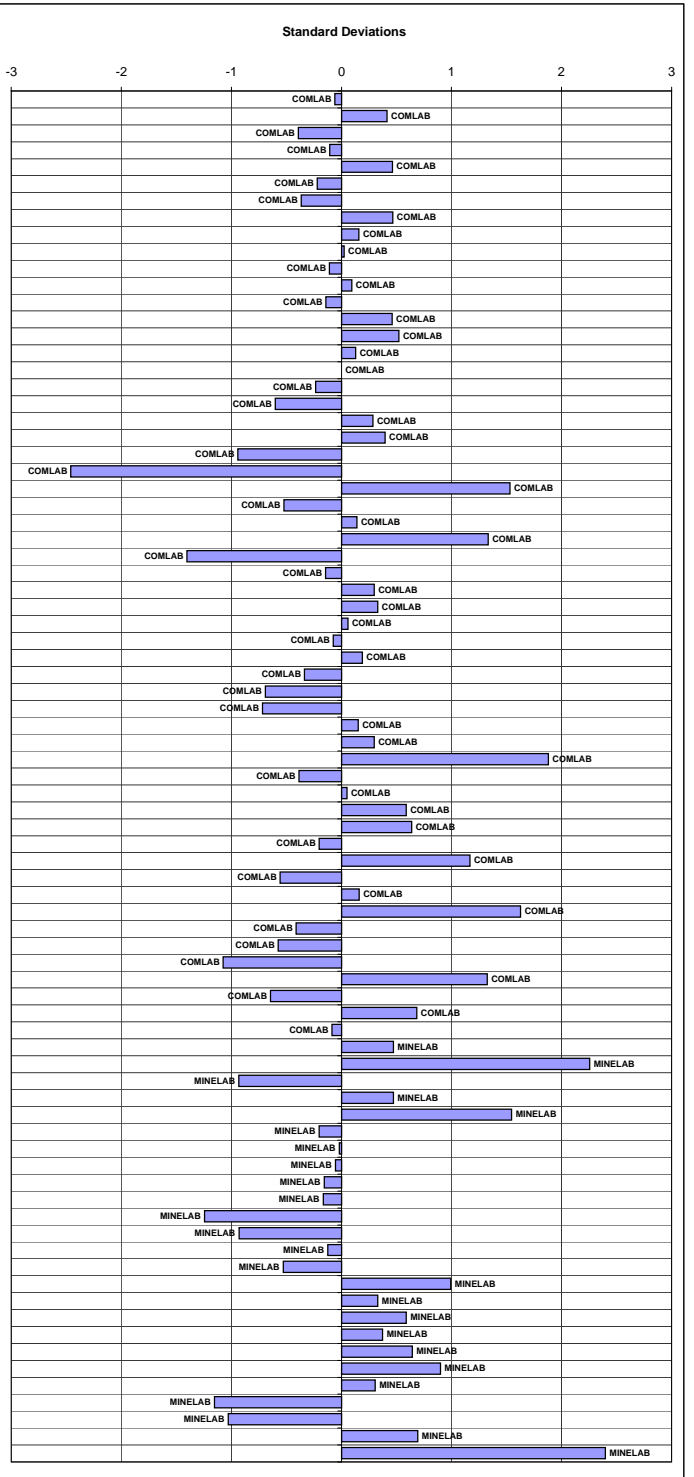




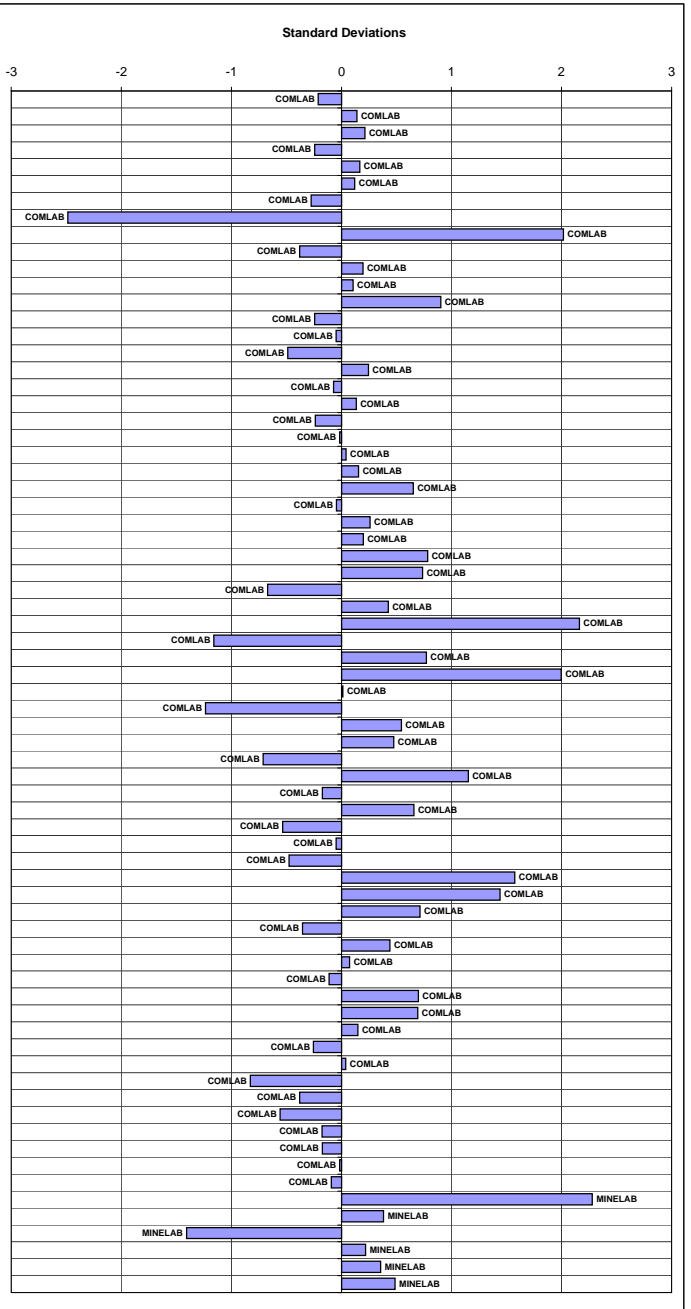




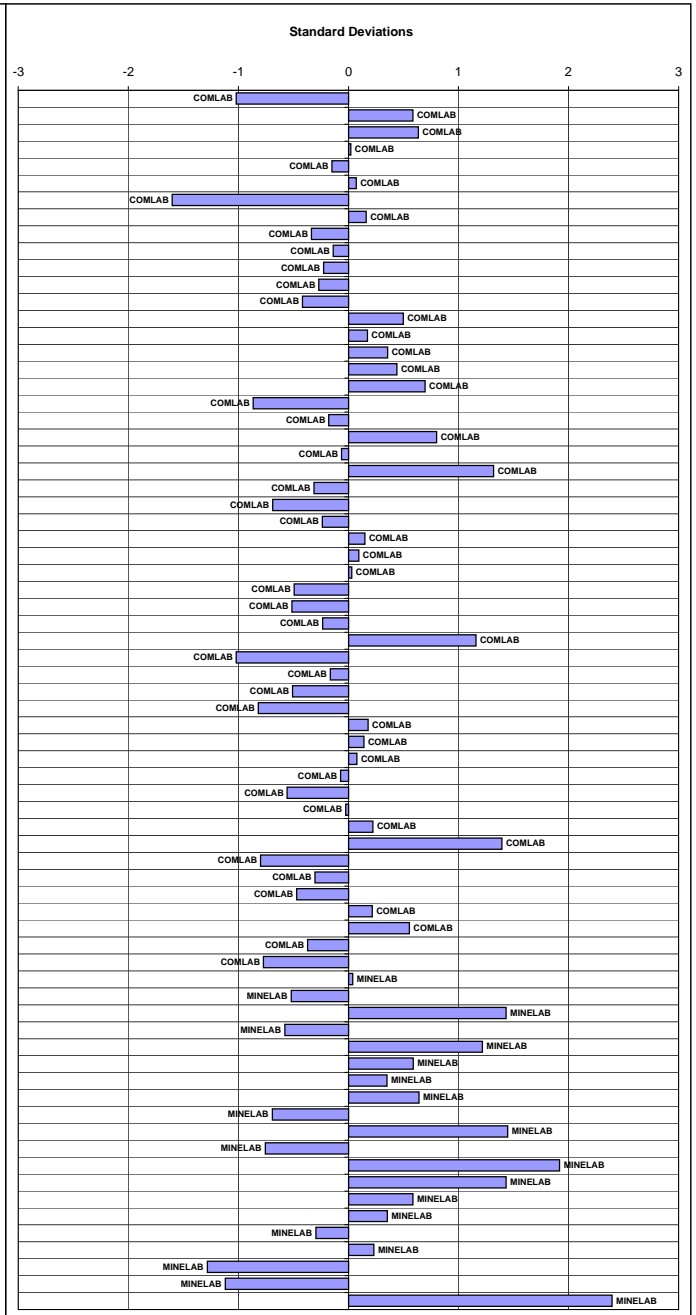






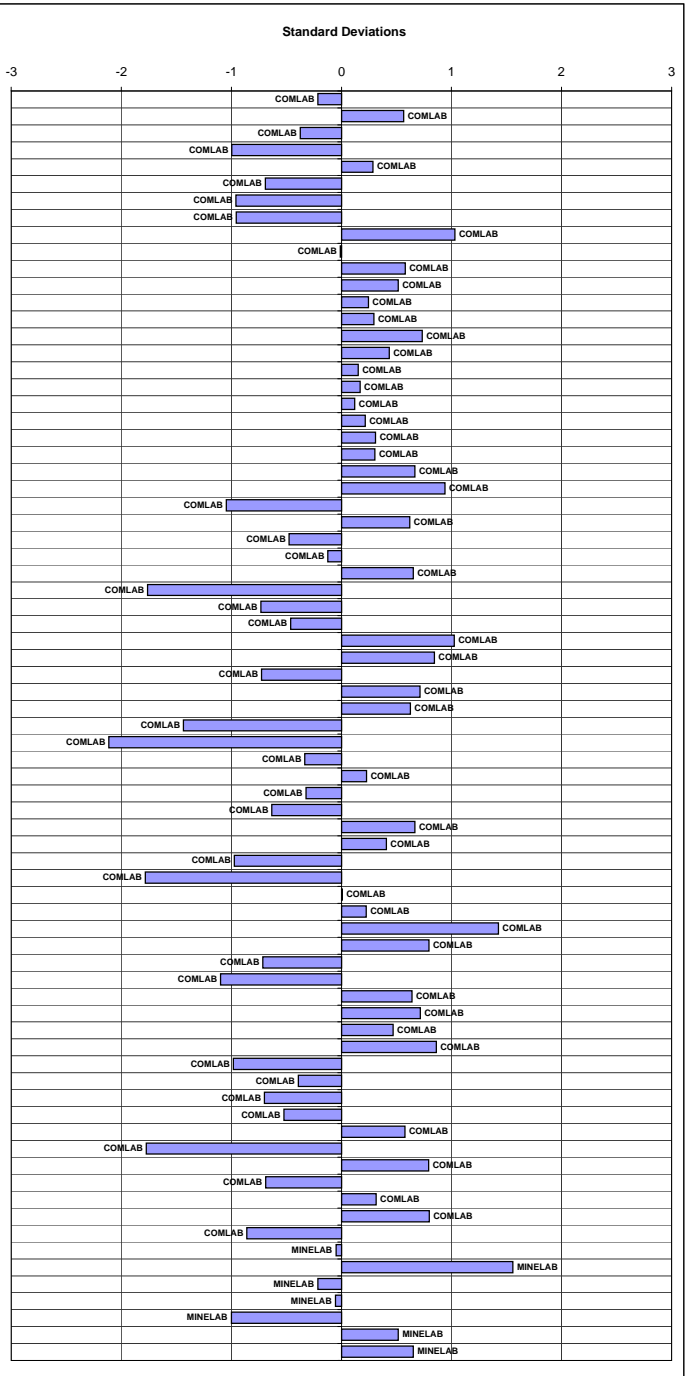




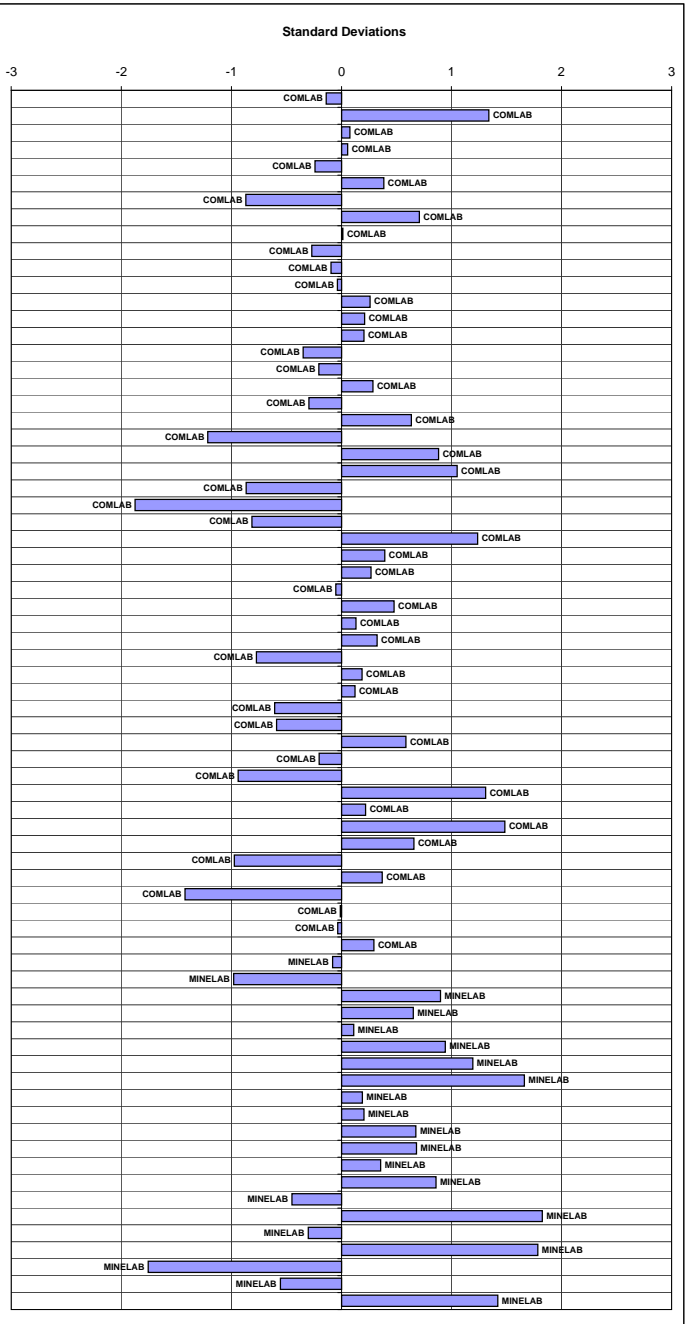




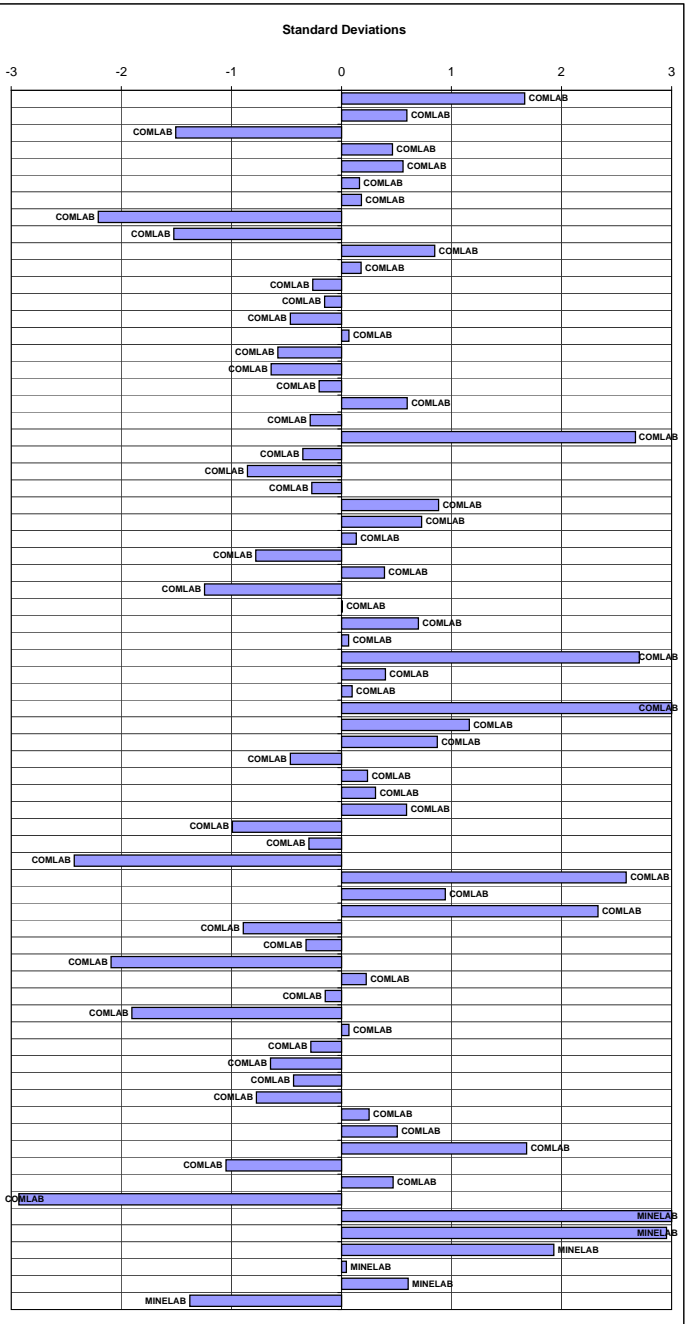




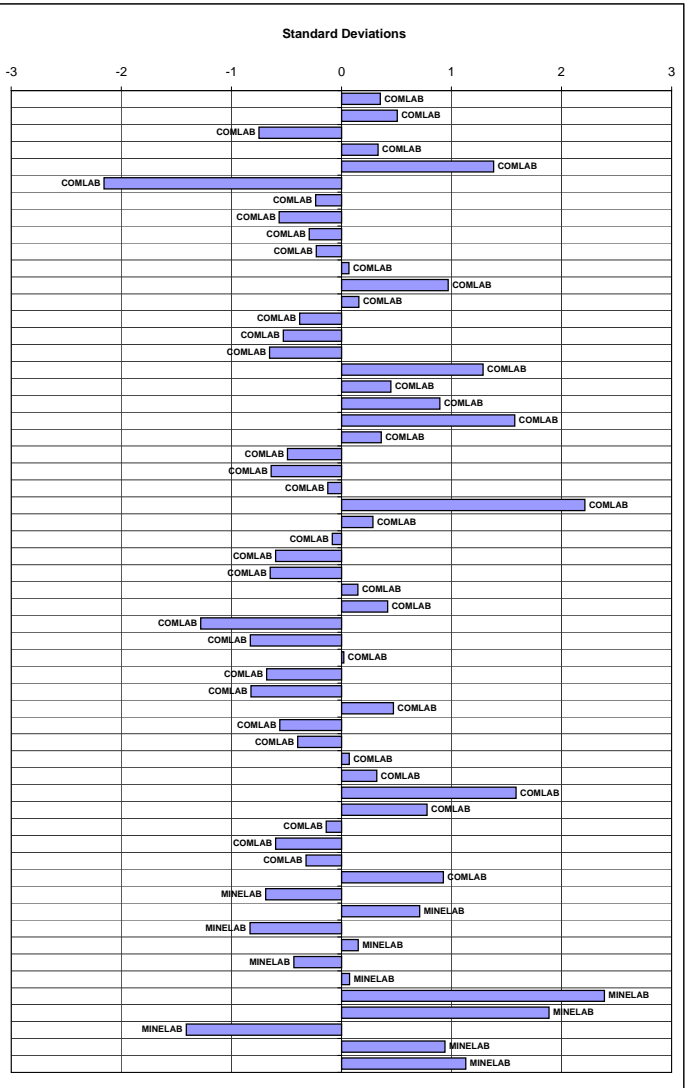






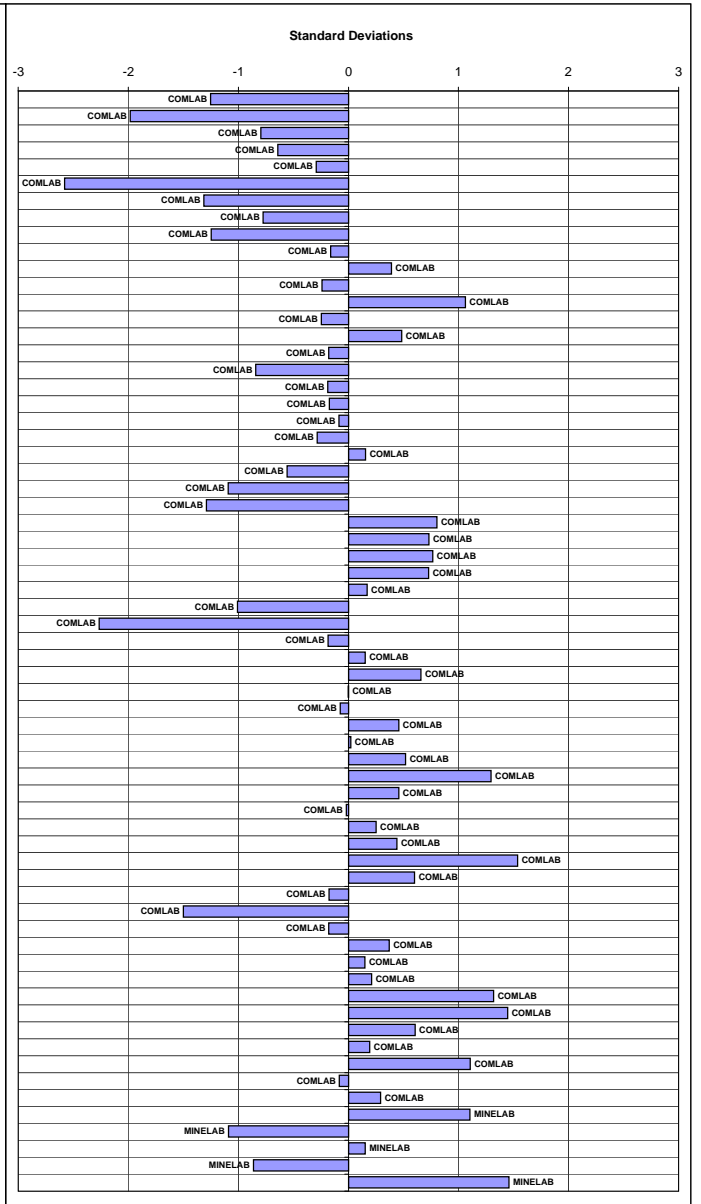
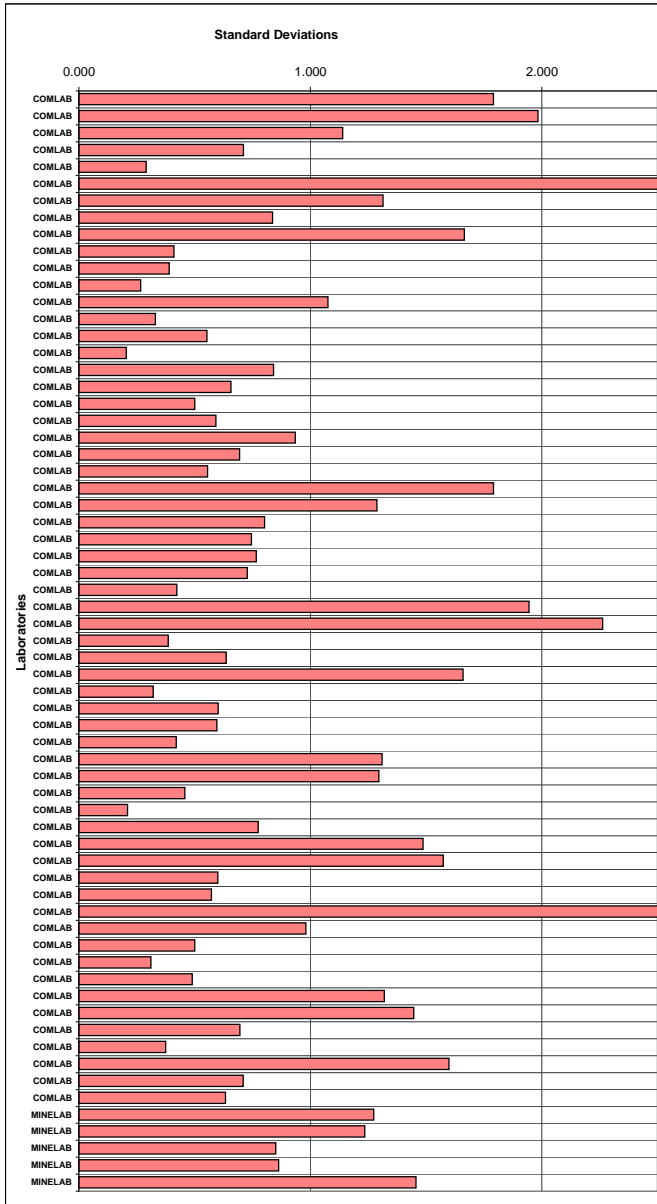




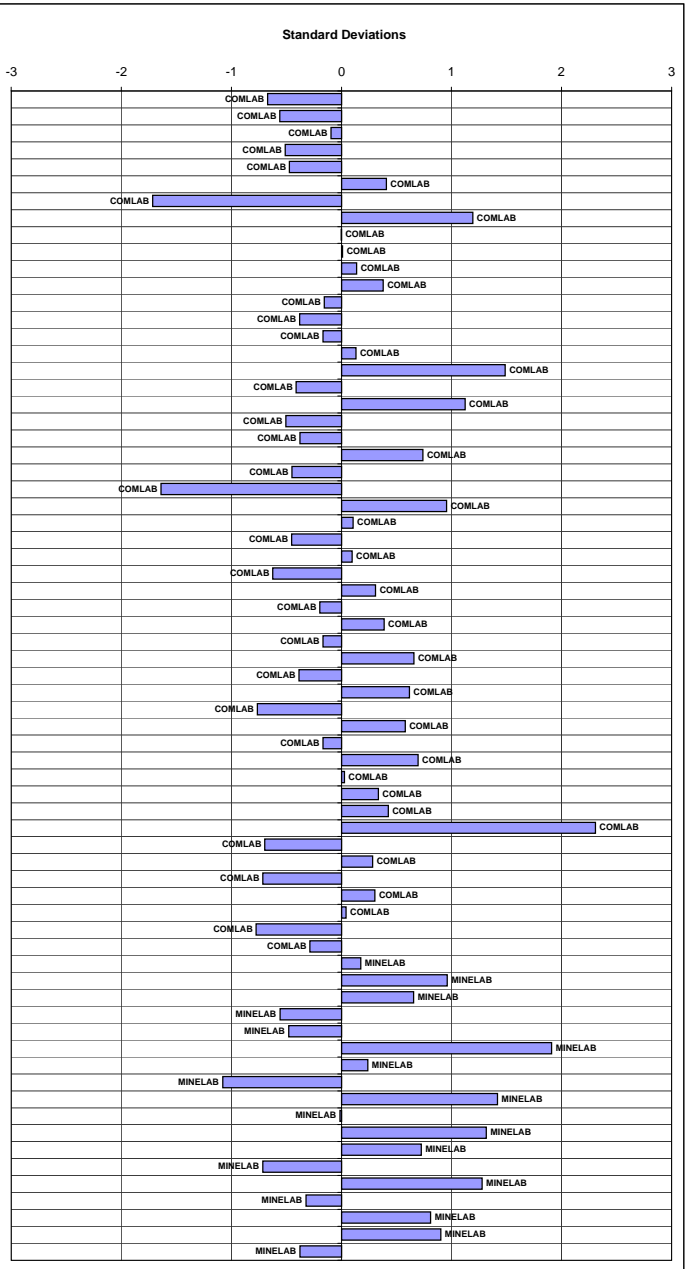








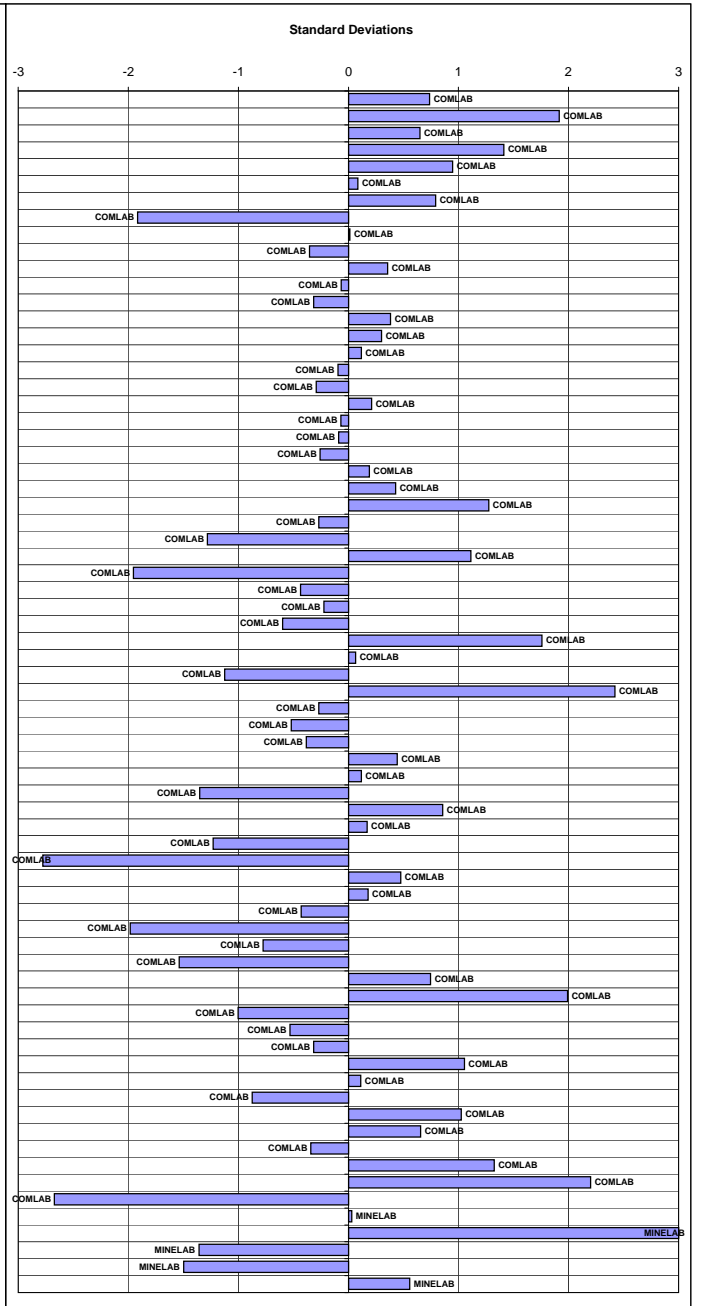




**Cobalt (Total Digest) Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2014**

Standard Reference	GBM314-1	GBM314-2	GBM314-3	GBM314-4	GBM314-5	GBM314-6	GBM314-7	GBM314-8	GBM314-9	GBM314-10
MEAN (ppm)	83	7	7	19	22	205	9	32	33	39
STDEV (ppm)	7	1	1	2	2	11	1	2	2	3
95% CI (ppm)	2	0	0	0	0	3	0	1	1	1
95% CI (%)	1.99%	3.28%	3.14%	2.62%	2.03%	1.27%	2.50%	1.62%	1.70%	2.03%
MIN (ppm)	65	5	6	14	18	179	7	28	28	31
MEDIAN (ppm)	83	7	7	18	22	205	9	32	33	39
MAX (ppm)	98	9	9	23	25	228	11	37	38	44
IQR (ppm)	9	1	1	2	2	12	1	2	3	4
COUNT	69	58	60	62	59	63	53	57	59	61

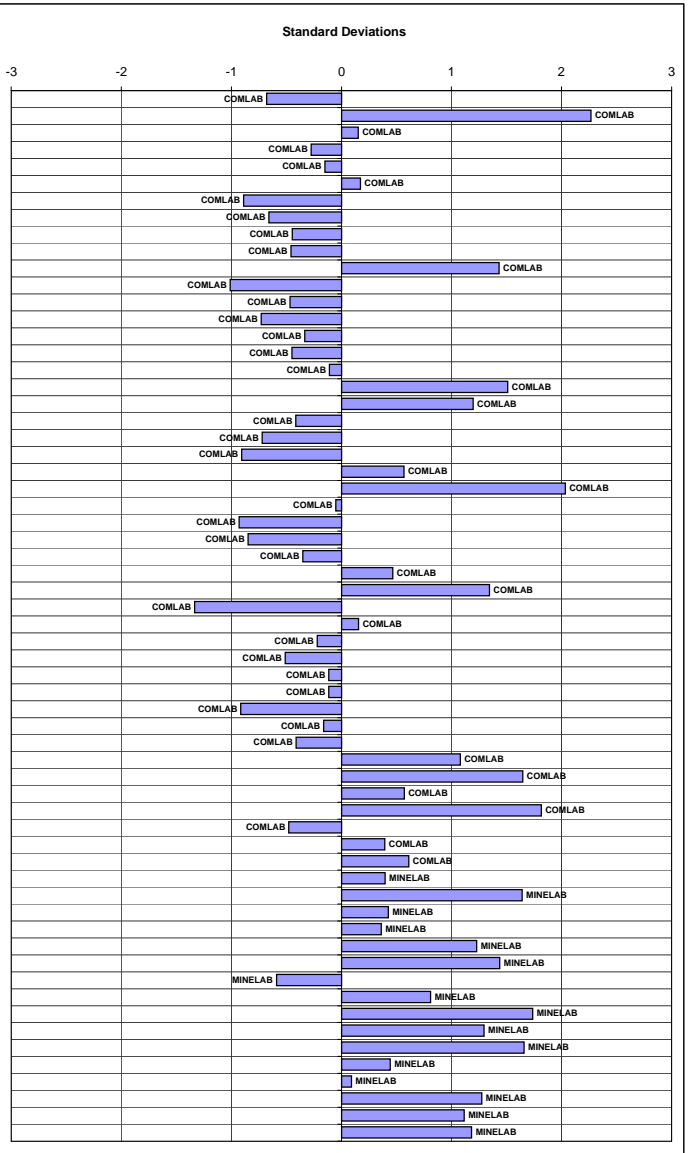
Standard Reference	GBM314-1		GBM314-2		GBM314-3		GBM314-4		GBM314-5		GBM314-6		GBM314-7		GBM314-8		GBM314-9		GBM314-10		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
COMLAB	86	0.49	6	-1.29	8	0.80	21	1.27	23	0.63	237	3.00	10	1.30	33	0.51	33	0.20	40	0.45	4A	ICP
COMLAB	73	-1.39	15	3.00	11	3.00	23	2.31	33	3.00	244	3.00	11	2.52	35	1.52	37	2.06	39	0.12	4A	AAS
COMLAB	79	-0.52	8	0.91	7	-0.31	19	0.24	23	0.63	251	3.00	10	1.30	32	0.00	35	1.13	39	0.12	4A	AAS
COMLAB	94	1.65	7	-0.19	9	1.92	21	1.27	24	1.21	241	3.00	10	1.30	40	3.00	33	0.20	41	0.77	4A	ICP
COMLAB	85	0.35	8	0.91	8	0.80	21	1.27	24	1.21	243	3.00	10	1.30	31	-0.50	34	0.66	40	0.45	4A	ICP
COMLAB	84	0.20	8	0.36	7	-0.20	18	-0.12	23	0.34	211	0.54	10	0.69	31	-0.55	31	-0.83	40	0.41	4A	MS
COMLAB	89	0.93	7	-0.19	8	0.80	20	0.76	24	1.21	223	1.68	10	1.30	32	0.00	34	0.66	41	0.77	4A	ICP
COMLAB	69	-1.95	4	3.00	6	-1.74	16	-1.35	19	-1.83	199	-0.62	8	-0.64	26	3.00	26	3.00	32	-2.03	4A	ES
COMLAB	78	-0.67	9	2.01	6	-1.43	17	-0.79	22	0.05	209	0.35	9	0.09	33	0.51	33	0.20	38	-0.20	4A	AAS
COMLAB	83	0.06	7	-0.19	6	-1.43	18	-0.28	22	0.05	201	-0.41	9	0.09	31	-0.50	31	-0.73	38	-0.20	4A	ES
COMLAB	82	-0.09	7	-0.19	8	0.80	19	0.24	24	1.21	211	0.54	9	0.09	32	0.00	33	0.20	41	0.77	4A	ES
COMLAB	78	-0.67	8	0.91	7	-0.31	17	-0.79	21	-0.53	205	-0.03	9	0.09	33	0.51	32	-0.27	40	0.45	4A	ES
COMLAB	79	-0.52	8	0.91	7	-0.31	18	-0.28	22	0.05	200	-0.50	9	0.09	30	-1.01	31	-0.73	36	-0.84	4A	ES
COMLAB	81	-0.23	9	2.01	8	0.80	19	0.24	22	0.05	203	-0.22	10	1.30	32	0.00	32	-0.27	39	0.12	4A	ES
COMLAB	84	0.20	8	0.91	7	-0.31	19	0.24	23	0.63	215	0.92	9	0.09	32	0.00	33	0.20	39	0.12	4A	ES
COMLAB	86	0.49	7	-0.19	8	0.80	18	-0.28	21	-0.53	221	1.49	9	0.09	29	-1.51	32	-0.27	42	1.09	4A	ICP
COMLAB	82	-0.09	8	0.91	7	-0.31	18	-0.28	22	0.05	205	-0.03	9	0.09	31	-0.50	32	-0.27	37	-0.52	4A	ES
COMLAB	80	-0.38	8	0.91	6	-1.43	18	-0.28	21	-0.53	211	0.54	8	-1.13	31	-0.50	32	-0.27	39	0.12	4A	ES
COMLAB	87	0.64	7	-0.19	7	-0.31	18	-0.28	22	0.05	212	0.64	9	0.09	33	0.51	33	0.20	41	0.77	4A	ES
COMLAB	79	-0.52	8	0.91	7	-0.31	18	-0.28	22	0.05	204	-0.12	9	0.09	31	-0.50	33	0.20	38	-0.20	4A	ES
COMLAB	81	-0.23	5	-2.40	6	-1.43	18	-0.28	24	1.21	205	-0.03	10	1.30	32	0.00	33	0.20	41	0.77	4A	ES
COMLAB	82	-0.09	6	-1.29	7	-0.31	18	-0.28	23	0.63	206	0.07	8	-1.13	31	-0.50	33	0.20	39	0.12	4A	ES
COMLAB	84	0.20	8	0.91	8	0.80	19	0.24	21	-0.53	211	0.54	nr	nr	32	0.00	32	-0.27	38	-0.20	4A	ES
COMLAB	89	0.93	7	-0.19	7	-0.31	19	0.24	23	0.63	220	1.40	8	-1.13	33	0.51	35	1.13	42	1.09	NAA	
COMLAB	98	2.29	8	1.13	8	0.47	20	0.76	25	1.67	228	2.16	9	0.57	34	0.96	35	1.13	44	1.61	4A	ICP
COMLAB	86	0.49	8	0.91	8	0.80	17	-0.79	20	-1.10	214	0.83	9	0.09	28	-2.02	31	-0.73	35	-1.17	4A	ES
COMLAB	77	-0.81	7	-0.19	7	-0.31	10	-3.00	11	-3.00	203	-0.22	5	-3.00	30	-1.01	31	-0.73	37	-0.52	4A	AAS
COMLAB	82	-0.09	8	0.91	9	1.92	22	1.79	28	3.00	205	-0.03	14	3.00	32	0.00	35	1.13	37	-0.52	4A	AAS
COMLAB	77	-0.81	6	-1.29	8	0.80	5	-3.00	8	-3.00	203	-0.22	5	-3.00	11	-3.00	13	-3.00	10	-3.00	4A	AAS
COMLAB	92	1.36	8	0.91	4	-3.00	16	-1.31	32	0.05	204	-0.12	8	-1.13	32	0.00	32	-0.27	36	-0.84	4A	ES
COMLAB	94	1.65	8	0.91	8	0.80	16	-1.31	20	-1.10	216	1.02	8	-1.13	30	-1.01	30	-1.20	36	-0.84	4A	ES
COMLAB	84	0.20	6	-1.29	7	-0.31	18	-0.28	21	-0.53	197	-0.79	9	0.09	30	-1.01	30	-1.20	36	-0.84	4A	MS
COMLAB	90	1.07	10	3.00	9	1.92	23	2.31	25	1.79	206	0.07	12	3.00	36	2.03	34	0.66	44	1.74	4A	MS
COMLAB	85	0.35	7	-0.41	7	-0.43	19	0.14	22	-0.24	209	0.35	9	0.33	33	0.56	32	-0.50	40	0.51	4A	MS
COMLAB	80	-0.38	6	-1.29	6	-1.43	17	-0.79	19	-1.68	200	-0.50	8	-1.13	29	-1.51	29	-1.67	36	-0.84	4A	AAS
COMLAB	91	1.22	8	0.91	9	1.92	31	3.00	38	3.00	228	2.16	14	3.00	52	3.00	48	3.00	62	3.00	4A	ES
COMLAB	67	-2.26	10	3.00	7	-0.19	18	-0.28	21	-0.64	183	-2.12	9	0.09	32	-0.15	32	-0.22	39	0.09	4A,MICR	MS
COMLAB	88	0.74	7	-0.35	7	-0.24	18	-0.53	21	-0.58	197	-0.79	8	-0.63	30	-0.96	30	-1.15	37	-0.68	4A	ICP
COMLAB	85	0.35	7	-0.19	6	-1.43	18	-0.28	21	-0.53	214	0.83	8	-1.13	31	-0.50	31	-0.73	38	-0.20	4A	ES
COMLAB	86	0.42	8	0.47	7	0.13	19	0.19	23	0.86	212	0.66	9	0.21	33	0.66	33	0.34	40	0.51	4A	ES
COMLAB	86	0.49	7	-0.19	7	-0.31	19	0.24	23	0.63	206	0.07	9	0.09	32	0.00	32	-0.27	40	0.45	4A	ES
COMLAB	30	-3.00	7	-0.19	7	-0.31	17	-0.79	21	-0.53	172	-3.00	9	0.09	29	-1.51	28	-2.13	32	-2.14	4A	AAS
COMLAB	88	0.78	7	-0.19	8	0.80	21	1.27	24	1.21	217	1.11	10	1.30	33	0.51	34	0.66	42	1.09	4A	ES
COMLAB	87	0.70	7	-0.08	7	-0.20	19	0.19	23	0.52	203	-0.26	39	3.00	34	0.91	32	-0.08	7	-3.00	4A	MS
COMLAB	75	-1.10	8	0.91	9	1.92	14	-2.34	15	-3.00	208	0.26	9	0.09	25	-3.00	26	-3.00	25	-3.00	4A	ES
COMLAB	74	-1.25	2	-3.00	2	-3.00	1	-3.00	4	-3.00	179	-2.50	3	-3.00	10	-3.00	10	-3.00	7	-3.00	4A	ES
COMLAB	88	0.78	8	0.91	8	0.80	20	0.76	23	0.63	198	-0.69	9	0.09	33	0.51	33	0.20	41	0.77	4A	ICP
COMLAB	95	1.80	7	-0.19	7	-0.31	19	0.24	21	-0.53	216	1.02	9	0.09	32	0.00	33	0.20	37	-0.52	4A	ES
COMLAB	68	-2.19	7	0.14	7	0.13	17	-0.64	22	0.28	206	0.07	9	-0.16	31	-0.45	31	-0.92	37	-0.55	4A	MS
COMLAB	65	-2.55	6	-1.29	6	-1.43	15	-1.83	19	-1.68	164	-3.00	9	0.09	24	-3.00	25	3.00	32	-2.14	4A	ICP
COMLAB	75	-1.09	6	-1.56	6	-1.29	16	-1.19	19	-1.62	198	-0.69	8	-1.46	36	1.83	35	1.06	33	-1.75	FUS,4A	ICP
COMLAB	76	-0.92	8	1.06	8	0.85	11	3.00	14	-3.00	198	-0.69	8	-0.68	19	-3.00	21	-3.00	20	-3.00	4A	AAS</



**Cobalt (Partial Digest) Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2014**

Standard Reference	GBM314-1	GBM314-2	GBM314-3	GBM314-4	GBM314-5	GBM314-6	GBM314-7	GBM314-8	GBM314-9	GBM314-10
MEAN (ppm)	84	8	8	8	11	208	7	16	17	11
STDEV (ppm)	13	1	1	3	3	13	2	4	4	2
95% CI (ppm)	3	0	0	1	1	3	0	1	1	1
95% CI (%)	4.01%	5.22%	3.62%	8.32%	6.77%	1.58%	6.66%	5.84%	5.81%	4.90%
MIN (ppm)	48	4	5	5	7	178	3	12	11	7
MEDIAN (ppm)	83	7	8	7	10	206	7	15	15	11
MAX (ppm)	113	11	10	15	18	243	11	25	26	16
IQR (ppm)	17	1	1	3	3	16	2	5	5	2
COUNT	61	53	55	55	56	59	53	54	54	47

Standard Reference	GBM314-1		GBM314-2		GBM314-3		GBM314-4		GBM314-5		GBM314-6		GBM314-7		GBM314-8		GBM314-9		GBM314-10		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	54	-2.24	7	-0.41	7	-0.64	6	-0.84	9	-0.64	194	-1.09	7	0.05	15	-0.36	15	-0.49	11	-0.13	AR	ICP	
COMLAB	76	-0.58	<b>13</b>	<b>3.00</b>	9	1.28	<b>21</b>	<b>3.00</b>	<b>26</b>	<b>3.00</b>	243	2.74	9	1.23	<b>39</b>	<b>3.00</b>	<b>39</b>	<b>3.00</b>	<b>36</b>	<b>3.00</b>	AR	AAS	
COMLAB	82	-0.12	8	0.28	9	1.28	8	-0.05	9	-0.64	202	-0.46	7	0.05	17	0.20	19	0.61	12	0.39	AR	AAS	
COMLAB	48	-2.69	7	-0.41	7	-0.64	8	-0.05	9	-0.64	228	1.57	7	0.05	15	-0.36	15	-0.49	13	0.91	AR	ICP	
COMLAB	66	-1.33	7	-0.48	7	-0.35	7	-0.44	10	-0.13	222	1.10	7	-0.07	16	-0.05	18	0.23	11	0.02	AR	MS	
COMLAB	76	-0.58	7	-0.41	8	0.32	8	-0.05	10	-0.28	224	1.26	7	0.05	16	-0.08	17	0.06	14	1.44	AR	ICP	
COMLAB	71	-0.95	4	-2.47	6	-1.40	6	-0.76	8	-0.85	200	-0.63	6	-0.49	14	-0.71	15	-0.53	11	-0.11	AR	ES	
COMLAB	76	-0.58	6	-1.09	7	-0.64	7	-0.44	9	-0.64	197	-0.85	6	-0.54	14	-0.65	15	-0.49	10	-0.66	AR	ES	
COMLAB	79	-0.35	7	-0.41	7	-0.64	6	-0.84	10	-0.28	206	-0.15	6	-0.54	14	-0.65	15	-0.49	11	-0.13	AR	ES	
COMLAB	82	-0.12	7	-0.41	7	-0.64	6	-0.84	9	-0.64	213	0.40	6	-0.54	14	-0.65	15	-0.49	10	-0.66	AR	ES	
COMLAB	90	0.48	10	1.65	5	-2.56	15	2.71	15	1.53	220	0.95	10	1.82	25	2.47	25	2.27	<b>25</b>	<b>3.00</b>	3A	ES	
COMLAB	79	-0.35	7	-0.41	6	-1.60	5	-1.23	8	-1.00	196	-0.93	5	-1.13	12	-1.21	13	-1.04	9	-1.18	AR	ES	
COMLAB	83	-0.05	7	-0.41	7	-0.64	6	-0.84	9	-0.64	208	0.01	6	-0.54	13	-0.93	15	-0.49	11	-0.13	AR	ES	
COMLAB	62	-1.63	6	-1.09	7	-0.64	7	-0.44	8	-1.00	203	-0.38	6	-0.54	14	-0.65	14	-0.77	11	-0.13	AR	ES	
COMLAB	80	-0.27	7	-0.41	8	0.32	7	-0.44	9	-0.64	207	-0.07	6	-0.54	14	-0.65	15	-0.49	11	-0.13	AR	ES	
COMLAB	79	-0.35	9	0.96	7	-0.64	5	-1.23	8	-1.00	206	-0.15	6	-0.54	13	-0.93	15	-0.49	11	-0.13	AR	ES	
COMLAB	80	-0.27	7	-0.41	8	0.32	nr	nr	nr	nr	207	-0.07	nr	nr	nr	nr	nr	nr	nr	nr	nr	AR	ES
COMLAB	69	-1.10	7	-0.41	8	0.32	<b>24</b>	<b>3.00</b>	<b>29</b>	<b>3.00</b>	186	-1.71	<b>12</b>	<b>3.00</b>	<b>41</b>	<b>3.00</b>	<b>39</b>	<b>3.00</b>	<b>46</b>	<b>3.00</b>	AR	ES	
COMLAB	<b>197</b>	<b>3.00</b>	<b>60</b>	<b>3.00</b>	<b>43</b>	<b>3.00</b>	6	-1.04	<b>21</b>	<b>3.00</b>	<b>125</b>	<b>-3.00</b>	<b>&lt;1</b>	<b>-3.00</b>	20	1.00	<b>58</b>	<b>3.00</b>	<b>40</b>	<b>3.00</b>	AR	AAS	
COMLAB	95	0.86	7	-0.41	7	-0.64	6	-0.84	10	-0.28	209	0.09	5	-1.13	14	-0.65	15	-0.49	10	-0.66	AR	ES	
COMLAB	78	-0.43	8	0.07	7	-0.64	6	-0.96	8	-0.97	194	-1.09	6	-0.78	13	-0.90	13	-1.02	10	-0.50	AR	ICP	
COMLAB	76	-0.58	7	-0.41	7	-0.64	6	-0.84	8	-1.00	180	-2.18	6	-0.54	13	-0.93	14	-0.77	9	-1.18	AR	ES	
COMLAB	95	0.83	<b>13</b>	<b>3.00</b>	<b>11</b>	<b>3.00</b>	8	-0.15	<b>11</b>	-0.03	194	-1.09	7	0.08	16	-0.21	17	-0.05	12	0.31	AR	ES	
COMLAB	95	0.86	10	1.65	9	1.28	<b>19</b>	<b>3.00</b>	<b>22</b>	<b>3.00</b>	212	0.32	9	1.23	<b>31</b>	<b>3.00</b>	<b>32</b>	<b>3.00</b>	<b>39</b>	<b>3.00</b>	AR	ES	
COMLAB	87	0.25	7	-0.41	7	-0.64	7	-0.44	12	0.45	206	-0.15	7	0.05	16	-0.08	17	0.06	12	0.39	AR	MS	
COMLAB	86	0.18	5	-1.78	6	-1.60	5	-1.23	8	-1.00	206	-0.15	6	-0.54	13	-0.93	13	-1.04	9	-1.18	AR	ES	
COMLAB	75	-0.65	6	-1.38	6	-1.21	6	-0.86	8	-0.95	203	-0.37	6	-0.59	14	-0.56	13	-0.98	10	-0.91	AR	ES	
COMLAB	91	0.56	9	0.78	8	0.09	6	-0.81	8	-0.99	217	0.71	6	-0.39	12	-1.10	15	-0.58	8	-1.77	AR	ES	
COMLAB	59	-1.86	7	-0.41	8	0.32	11	1.13	12	0.45	208	0.01	8	0.64	19	0.77	19	0.61	<b>19</b>	<b>3.00</b>	AR	AAS	
COMLAB	83	-0.05	6	-1.09	7	-0.64	13	1.92	16	1.90	208	0.01	11	2.41	<b>29</b>	<b>3.00</b>	<b>30</b>	<b>3.00</b>	<b>25</b>	<b>3.00</b>	3A	ICP	
COMLAB	67	-1.26	7	-0.41	7	-0.64	6	-0.84	7	-1.37	178	-2.34	4	-1.72	12	-1.21	12	-1.32	7	-2.23	AR	ICP	
COMLAB	110	1.99	9	0.96	8	0.32	7	-0.44	9	-0.64	216	0.63	6	-0.54	15	-0.36	16	-0.22	11	-0.13	AR	AAS	
COMLAB	94	0.78	7	-0.41	8	-0.16	7	-0.56	8	-0.93	213	0.40	6	-0.48	15	-0.28	16	-0.33	11	-0.24	AR	MS	
COMLAB	79	-0.35	7	-0.41	8	0.32	6	-0.84	8	-1.00	>100	ald	7	0.05	13	-0.93	14	-0.77	10	-0.66	AR	AAS	
COMLAB	88	0.36	8	0.28	8	0.32	7	-0.44	8	-0.86	229	1.65	6	-0.54	14	-0.76	14	-0.82	11	-0.34	AR	MS	
COMLAB	95	0.86	8	0.28	8	0.32	7	-0.44	9	-0.64	199	-0.89	nr	nr	15	-0.36	16	-0.22	11	-0.13	AR	AAS,MS	
COMLAB	67	-1.26	6	-1.09	7	-0.64	7	-0.44	9	-0.64	184	-1.87	5	-1.13	14	-0.65	14	-0.77	10	-0.66	AR	ES	
COMLAB	85	0.10	6	-1.09	7	-1.12	8	-0.05	12	0.27	197	-0.85	6	-0.54	16	-0.08	17	0.06	15	1.70	AR	ES	
COMLAB	98	1.08	11	2.33	6	-1.60	9	0.35	13	0.81	198	-0.77	3	-2.31	12	-1.21	11	-1.60	9	-1.18	AR	AAS	
COMLAB	81	-0.20	8	0.28	9	1.28	12	1.53	14	1.17	201	-0.54	9	1.23	22	1.62	22	1.44	<b>22</b>	<b>3.00</b>	AR	ES	
COMLAB	86	0.18	9	0.96	9	1.28	13	1.92	18	2.62	215	0.55	8	1.23	24	2.18	26	2.55	<b>23</b>	<b>3.00</b>	AR	ES	
COMLAB	83	-0.05	8	0.28	<b>11</b>	<b>3.00</b>	9	0.35	12	0.45	206	-0.15	8	0.64	18	0.49	18	0.34	12	0.39	3A	AAS	
COMLAB	107	1.76	<b>20</b>	<b>3.00</b>	<b>12</b>	<b>3.00</b>	<10	bid	13	0.81	211	0.24	<10	bid	19	0.80	<b>208</b>	<b>3.00</b>	15	1.91	AR	AAS	
COMLAB	93	0.67	7	-0.47	7	-0.54	6	-0.69	9	-0.80	206	-0.15	6	-0.81	13	-0.87	14	-0.80	11	-0.34	AR	MS	
COMLAB	95	0.86	10	1.65	8	0.32	8	-0.05	10	-0.28	224	1.26	7	0.05	17	0.20	17	0.06	11	-0.13	AD	AAS	
COMLAB	75	-0.65	8	0.28	8	0.32	10	0.74	16	1.90	225	1.34	8	0.64	<b>32</b>	<b>3.00</b>	14	-0.77	10	-0.66	AR	ES	
MINELAB	101	1.34	8	0.39	8	0.63	7	-0.30	10	-0.38	233	1.96	7	-0.03	16	-0.13	16	-0.24	13	0.73	AR	ES	
MINELAB	75	-0.65	10	1.65	9	1.28	11	1.13	<b>27</b>	<b>3.00</b>	219	0.87	<b>20</b>	<b>3.00</b>	<b>38</b>	<b>3.00</b>	21	1.16	15	1.96	3A	AAS	
MINELAB	75	-0.65	10	1.65	10	2.24	<10	bid	10	-0.28	200	-0.62	<b>15</b>	<b>3.00</b>	15	-0.36	15	-0.49	10	-0.66	AR	AAS	
MINELAB	108	1.84	11	2.24	9	1.32	8	0.09	11	-0.07	195	-1.01	8	0.43	15	-0.41	15	-0.50	11	-0.32	AR	MS	
MINELAB	106	1.69	7	-0.09	8	0.11	12	1.66	14	1.19	203	-0.36	9	1.03	23	1.91	25	2.16	<b>25&lt;/</b>				

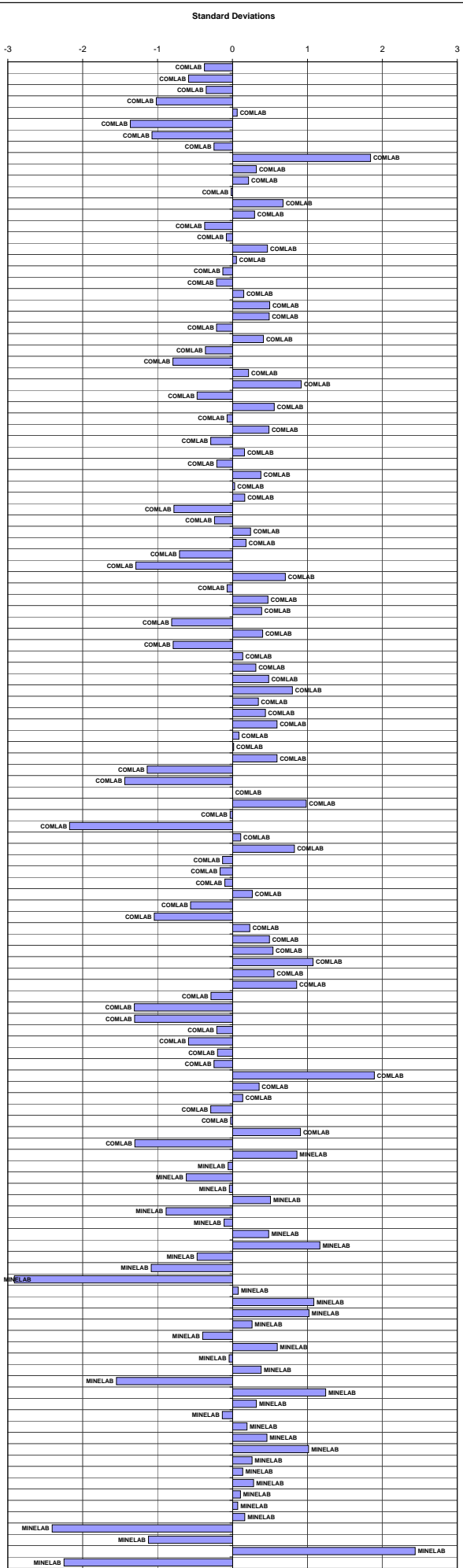


## Ore Grade Copper Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2014

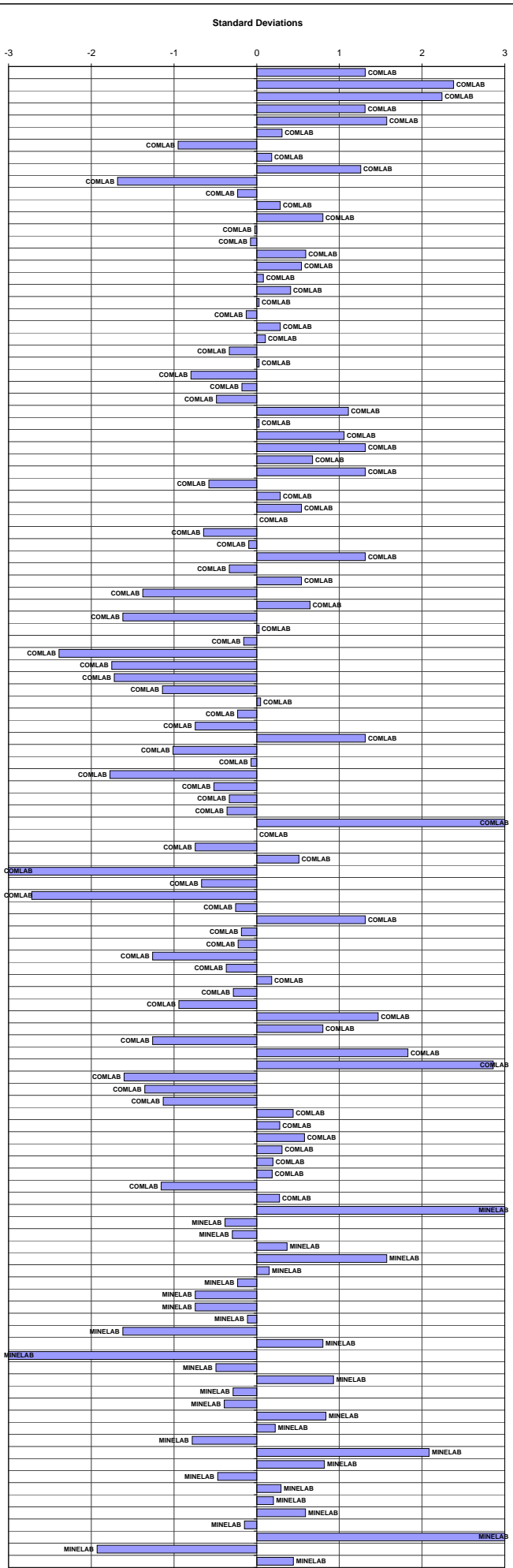
Standard Reference	GBM314-11	GBM314-12	GBM314-13	GBM314-14	GBM314-15	GBM314-16
MEAN (ppm)	34499	29880	5309	256	212876	160964
STDEV (ppm)	1222	1137	205	15	5758	4819
95% CI (ppm)	211	199	36	6	1057	855
95% CI (%)	0.61%	0.66%	0.68%	2.23%	0.50%	0.53%
MIN (ppm)	31226	26800	4799	230	197873	148368
MEDIAN (ppm)	34529	29900	5300	253	213506	161500
MAX (ppm)	37817	32800	5980	288	227635	171379
IQR (ppm)	1300	1395	219	21	7190	4935
COUNT	130	127	126	26	115	123

Standard Reference	GBM314-11		GBM314-12		GBM314-13		GBM314-14		GBM314-15		GBM314-16		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
COMLAB 34400	-0.08		29800	-0.07	5340	0.15	nr	nr	208000	-0.85	156000	-1.03	FUS	
COMLAB 32750	-1.43		28980	-0.79	5120	-0.92	nr	nr	213490	0.11	161470	0.11	4A	AAS
COMLAB 33278	-1.00		28980	-0.79	5277	-0.16	4192	3.00	214080	0.21	160850	-0.02	4A	AAS
COMLAB 33600	-0.74		29100	-0.69	5020	-1.41	249	-0.46	207000	-1.02	155000	-1.24	4A	ICP
COMLAB 34310	-0.15		30420	0.47	5330	0.10	nr	nr	212910	-0.51	161170	0.04	AR	AAS
COMLAB 33062	-1.18		29463	-0.37	5209	-0.49	nr	nr	197873	-2.61	156410	-2.19	4A	MS
COMLAB 32500	-1.64		29700	-0.16	4980	-1.61	nr	nr	205000	-1.37	158000	-0.62	4A	ES
COMLAB 33900	-0.49		29800	-0.07	5450	0.69	240	-1.08	205000	-1.37	161000	0.01	FUS	ES
COMLAB 35780	1.05		31450	1.38	5470	0.79	nr	nr	254200	3.00	201000	3.00	3A,VOL	AAS
COMLAB 35099	0.49		29324	-0.49	5845	2.62	nr	nr	208511	-0.76	159620	-0.28	4A	AAS
COMLAB 34650	0.12		29760	-0.11	5290	-0.09	300	3.00	216530	0.63	163410	0.51	3A	ES
COMLAB 35200	0.57		29900	0.02	5290	-0.09	nr	nr	210000	-0.50	160500	-0.10	4A	ES
COMLAB 35900	1.15		30700	0.72	5400	0.44	nr	nr	216000	0.54	163500	0.53	FUS	XRF
COMLAB 34700	0.16		30100	0.19	5490	0.88	nr	nr	213000	0.02	162000	0.22	4A	ES
COMLAB 34730	-0.19		29540	-0.30	5330	0.10	nr	nr	205920	-1.21	157850	-0.65	AR	ES
COMLAB 34300	-0.16		30000	0.11	5300	-0.04	nr	nr	211000	-0.33	161000	0.01	4A	ES
COMLAB 35100	0.49		30600	0.63	5600	1.42	nr	nr	211000	-0.33	161500	0.11	4A	ES
COMLAB 35300	0.66		29400	-0.42	5300	-0.04	nr	nr	212000	-0.15	162000	0.22	4A	ICP
COMLAB 34065	-0.35		29720	-0.14	5339	0.15	nr	nr	210849	-0.35	161196	0.05	4A	ES
COMLAB 33600	-0.74		29300	-0.51	5160	-0.73	nr	nr	218000	0.89	161000	0.01	4A	ES
COMLAB 35400	0.74		30200	0.28	5360	0.25	nr	nr	211000	-0.33	160000	-0.20	4A	ES
COMLAB 35000	0.41		30300	0.37	5390	0.40	260	0.29	218000	0.89	163000	0.42	FUS	ES
COMLAB 35045	0.45		30482	0.53	5300	-0.04	nr	nr	218511	0.98	163515	0.53	3A	ES
COMLAB 35000	0.41		30000	0.11	5240	-0.34	nr	nr	208000	-0.85	159500	-0.41	AR	ES
COMLAB 34500	0.00		30600	0.63	5340	0.15	nr	nr	216000	0.54	164500	0.73	AR	ES
COMLAB 34900	0.33		29600	-0.25	5300	-0.04	nr	nr	207000	-1.02	157000	-0.82	4A	ES
COMLAB 33540	-0.78		29380	-0.44	5070	-1.17	nr	nr	nr	nr	nr	nr	AR	AAS
COMLAB 34840	0.28		29390	-0.43	5200	-0.53	nr	nr	219300	1.12	164050	0.64	AR	AAS
COMLAB 36840	1.92		31990	1.85	5500	0.93	nr	nr	212900	0.00	160350	-0.13	4A	AAS
COMLAB 33700	-0.65		29100	-0.69	5100	-1.02	nr	nr	214000	0.20	160000	-0.20	AR	AAS
COMLAB 35700	0.98		30200	0.28	5380	0.35	nr	nr	216000	0.54	164000	0.63	4A	ES
COMLAB 34100	-0.33		29300	-0.51	5300	-0.04	nr	nr	214600	0.30	162000	0.22	4A,VOL	AAS
COMLAB 34160	-0.28		29907	0.02	4815	-2.41	nr	nr	241877	3.00	171054	2.09	4A	ES
COMLAB 34300	-0.16		30000	0.11	5400	0.44	nr	nr	207000	-1.02	157000	-0.82	FUS	ES
COMLAB 35627	-0.92		29840	-0.03	5403	0.46	nr	nr	209000	-0.54	161000	-0.43	4A	ES
COMLAB 34890	0.32		30660	0.69	5210	-0.48	260	0.29	208770	-0.71	156830	-0.86	4A	AAS
COMLAB 34800	0.25		29800	-0.07	5270	-0.19	nr	nr	219000	1.06	165000	0.84	3A	ES
COMLAB 35241	0.61		30819	0.83	5033	-1.35	250	-0.39	nr	nr	nr	nr	AR	AAS
COMLAB 34721	0.18		30006	0.11	5213	-0.47	nr	nr	218077	0.90	161351	0.08	4A	AAS
COMLAB 34601	0.08		29837	-0.04	5274	-0.17	257	0.09	nr	nr	15428	-3.00	4A	AAS
COMLAB 34400	-0.08		29100	-0.69	5100	-1.02	500	3.00	215000	0.37	162000	0.22	FUS	XRF
COMLAB 34800	0.25		30500	0.54	5450	0.69	nr	nr	210000	-0.50	162000	0.22	4A	ES
COMLAB 35100	0.49		30300	0.37	5486	0.74	nr	nr	210000	-0.50	160000	-0.20	4A	ES
COMLAB 32942	-1.27		28061	-1.60	5290	-1.11	nr	nr	216945	0.65	155089	-1.22	4A	MS,AAS
COMLAB 33800	-0.57		29450	-0.38	5220	-0.43	240	-0.74	190000	-3.00	151000	-2.07	4A	ES
COMLAB 35100	0.49		30400	0.46	5290	-0.09	261	0.36	221000	1.41	167000	1.25	4A	ES
COMLAB 34120	-0.31		29540	-0.30	5240	-0.34	nr	nr	214000	0.20	162800	0.38	4A,VOL	AAS
COMLAB 37817	2.72		32121	1.97	5794	2.37	nr	nr	198115	-2.56	150721	-2.13	4A	AAS
COMLAB 34100	-0.33		30500	0.54	5180	-0.63	nr	nr	218000	0.89	168000	1.46	4A,MICR	ES
COMLAB 34835	0.28		29955	0.07	5430	0.59	nr	nr	194350	-3.00	151350	-2.00	AR	ES
COMLAB 33820	-0.56		29090	-0.69	5741	2.11	274	1.26	215900	0.53	164000	0.63	4A	ICP
COMLAB 33041	-1.19		28910	-0.85	5109	-0.98	nr	nr	207185	-0.99	161224	0.05	4A	ES
COMLAB 35000	0.41		29800	-0.07	5183	-0.61	273	1.19	217000	0.72	162100	0.24	4A	ES
COMLAB 35400	0.74		29800	-0.07	5400	0.44	nr	nr	213000	0.02	163000	0.42	AR	ES
COMLAB 35000	0.41		30800	0.81	5600	1.42	nr	nr	210800	0.20	161800	0.17	3A,4A	AAS
COMLAB 35100	0.49		31000	0.98	5700	1.91	nr	nr	214000	0.02	163000	0.42	3A	AAS
COMLAB 34681	0.15		30898	0.89	5487	0.87	nr	nr	213201	0.06	159740	-0.25	4A	ES
COMLAB 34257	-0.20		31729	1.63	5489	0.88	nr	nr	210297	-0.45	162586	0.34	4A	ES
COMLAB 35000	0.41		30700	0.72	4900	-2.00	nr	nr	241000	3.00	165000	0.84	AR	ES
COMLAB 34859	0.30		29962	0.07	5316	0.03	nr	nr	213088	0.04	160952	0.00	AR	ES
COMLAB 34400	-0.08		30000	0.11	5150	-0.78	252	-0.26	214000	0.20	164000	0.63	AR	ES
COMLAB 34300	-0.16		29900	0.02	5435	0.62	nr	nr	219500	1.15	167500	1.36	4A	ICP
COMLAB 32700	-1.47		27800	-2.00	5120	-0.92	247	-0.60	209000	-0.67	158000	-0.62	4A	ES
COMLAB 33293	-0.89		27555	-2.04	4600	-3.00	230	-1.15	207275	-0.97	160023	-0.20	4A	ES
COMLAB 34500	-0.80		aid	aid	aid	aid	288	-0.84	aid	aid	aid	aid	AR	MS
COMLAB 34400	-0.08		28800	-0.95	5300	-0.04	nr	nr	233700	3.00	177000	3.00	3A	AAS
COMLAB 35029	0.43		30154	0.24	5163	-0.71	238	-1.22	212652	-0.04	160570	-0.08	3A	ICP
COMLAB 31226	-2.68	26025	-3.00	5131	-0.87	288	2.22	199380	-2.34	151376	-1.99	4A	ICP	
COMLAB 35272	0.63		29831	-0.04	5151	-0.77	nr	nr	213900	0.18	163600	0.55	FUS,TITR	ICP
COMLAB 35426	0.76		30853	0.86	5051	-1.26	nr	nr	224100	1.95	169800	1.83	4A	AAS
COMLAB 34968	0.38		29695	-0.16	5222	-0.42	nr	nr	213506	0.11	158203	-0.57	4A	AAS
COMLAB 33800	-0.57		29200	-0.30	5320	0.05	nr	nr	213500	0.11	161800	0.17	4A,GRAV	AAS
COMLAB 33932	-0.46		30293	0.66	5106	-0.99	nr	nr	218210	0.93	159294	-0.35	4A	AAS
COMLAB 34522	0.02		30180	0.26	5342	0.16	nr	nr	215800	0.51	162720	0.36	4A	AAS
COMLAB 32700	-1.47		28900	-0										





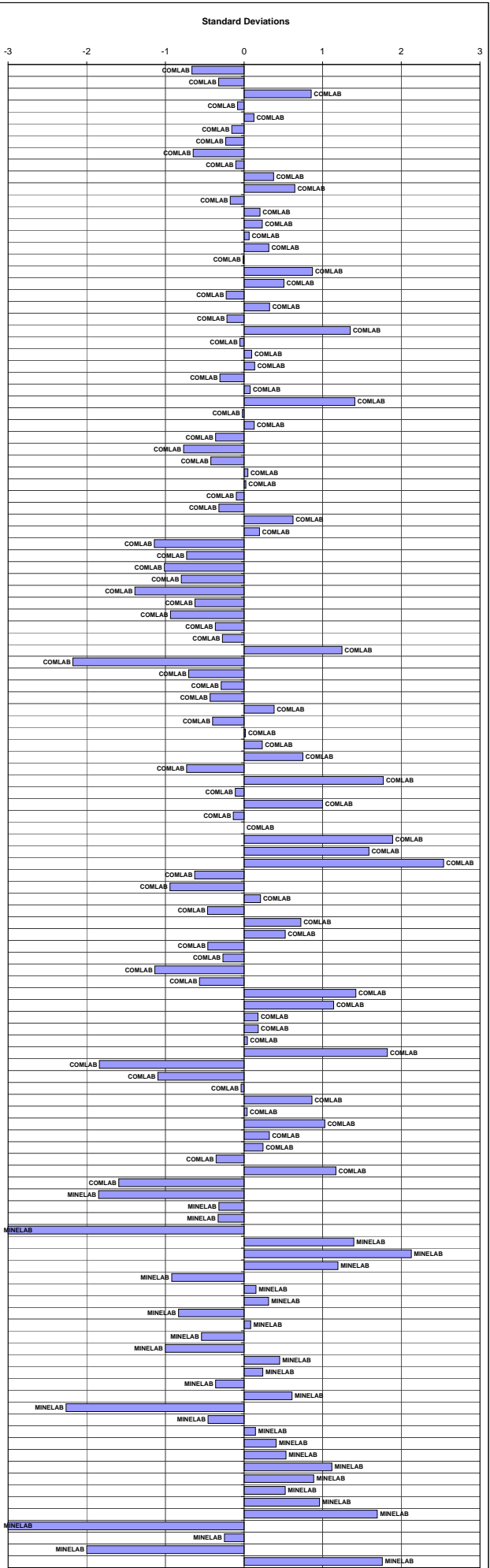




Ore Grade Zinc Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2014

Standard Reference	GBM314-11	GBM314-12	GBM314-13	GBM314-14	GBM314-15	GBM314-16
MEAN (ppm)	15367	5516	107	113	200	2896
STDEV (ppm)	552	235	25	15	15	153
95% CI (ppm)	100	43	12	6	7	28
95% CI (%)	0.65%	0.77%	11.63%	5.53%	3.44%	0.96%
MIN (ppm)	14200	4848	70	90	170	2508
MEDIAN (ppm)	15287	5517	100	107	200	2900
MAX (ppm)	16815	6164	160	140	232	3304
IQR (ppm)	786	244	37	26	18	172
COUNT	118	118	17	22	19	117

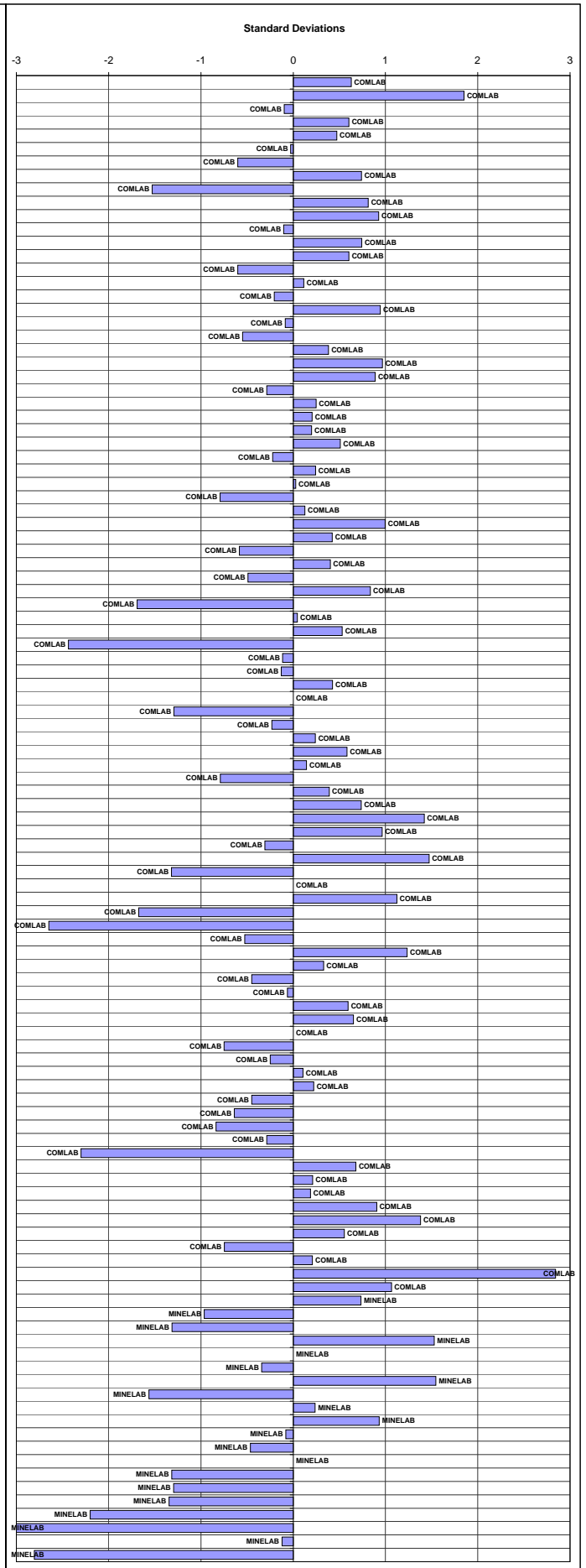
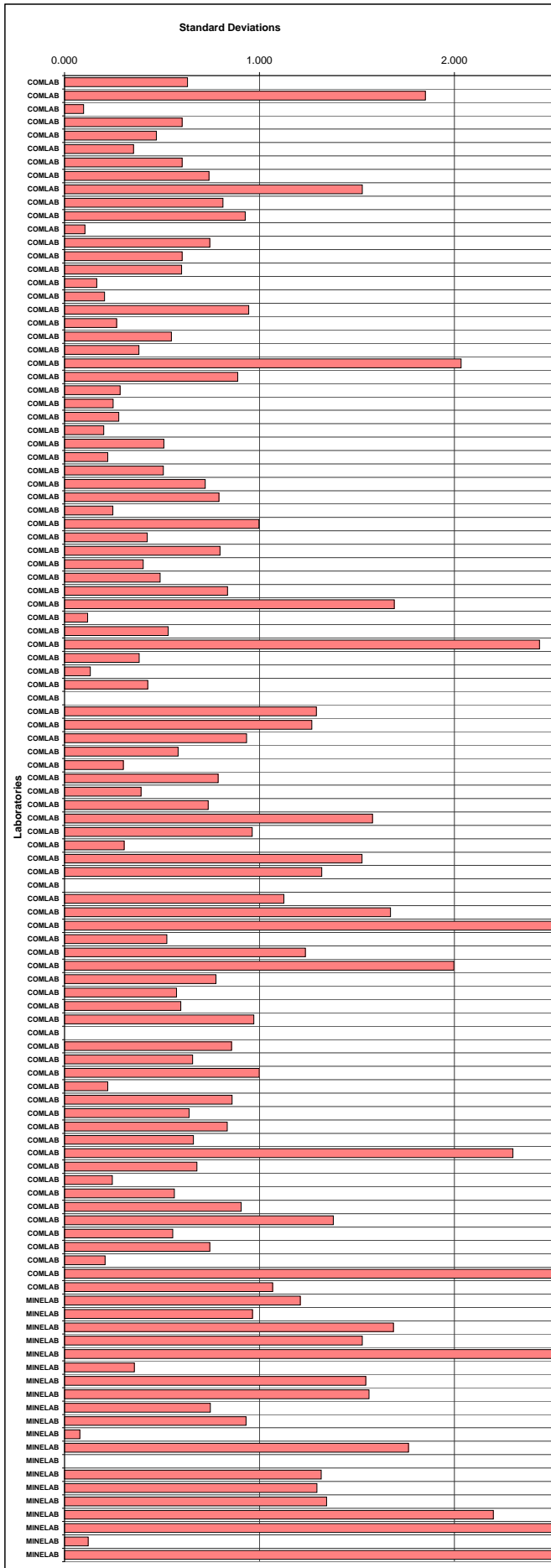
Standard Reference	GBM314-11		GBM314-12		GBM314-13		GBM314-14		GBM314-15		GBM314-16		Method	Reading		
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score				
COMLAB 14900	14900	-0.85	5400	-0.49	nr	nr	nr	nr	nr	nr	2800	-0.64	FUS			
COMLAB 14644	14644	-1.31	5673	0.67	nr	nr	nr	nr	nr	nr	nr	nr	4A	AAS		
COMLAB 15658	15658	0.53	5691	0.74	nr	nr	nr	nr	nr	nr	3095	nr	4A	AAS		
COMLAB 15200	15200	-0.30	5620	0.44	100	-0.26	107	-0.41	187	-0.88	2840	-0.38	4A	ICP		
COMLAB 15230	15230	-0.25	5600	0.36	nr	nr	nr	nr	nr	nr	2940	0.27	AR	AAS		
COMLAB 15224	15224	-0.26	5646	0.55	nr	nr	nr	nr	nr	nr	2783	-0.76	4A	MS		
COMLAB 14900	14900	-0.85	5640	0.53	nr	nr	nr	nr	nr	nr	2840	-0.38	4A	ES		
COMLAB 15000	15000	-0.66	5290	-0.96	100	-0.26	100	-0.89	200	-0.01	2850	-0.32	FUS	ES		
COMLAB 15690	15690	0.58	5295	-0.94	nr	nr	nr	nr	nr	nr	2904	0.04	3A	AAS		
COMLAB 16006	16006	1.16	5682	0.71	nr	nr	nr	nr	nr	nr	2787	-0.73	4A	AAS		
COMLAB 16000	16000	1.15	5700	0.78	100	-0.26	100	-0.89	200	-0.01	2900	0.01	3A	ES		
COMLAB 15100	15100	-0.48	5520	0.02	nr	nr	nr	nr	nr	nr	2890	-0.05	4A	ES		
COMLAB 15500	15500	0.24	5600	0.36	nr	nr	nr	nr	nr	nr	2900	0.01	FUS	XRF		
COMLAB 15500	15500	0.24	5560	0.19	nr	nr	nr	nr	nr	nr	2940	0.27	4A	ES		
COMLAB 15280	15280	-0.16	5520	0.02	nr	nr	nr	nr	nr	nr	2950	0.34	AR	ES		
COMLAB 15250	15250	-0.21	5710	0.82	70	-1.45	130	1.17	190	-0.68	2950	0.34	4A	ES		
COMLAB 15500	15500	0.24	5510	-0.03	nr	nr	nr	nr	nr	nr	2860	-0.25	4A	ES		
COMLAB 15900	15900	0.96	5900	1.63	nr	nr	nr	nr	nr	nr	2900	0.01	4A	ICP		
COMLAB 15293	15293	-0.13	5767	1.07	nr	nr	nr	nr	nr	nr	2989	0.59	4A	ES		
COMLAB 15300	15300	-0.12	5520	0.02	nr	nr	nr	nr	nr	nr	2810	-0.58	4A	ES		
COMLAB 15400	15400	0.06	5860	0.61	nr	nr	nr	nr	nr	nr	2945	0.31	4A	ES		
COMLAB 15400	15400	0.06	5500	-0.07	<100	blid	<100	blid	200	-0.01	2800	-0.64	FUS	ES		
COMLAB 16082	16082	1.29	6121	2.57	nr	nr	nr	nr	nr	nr	2928	0.19	3A	ES		
COMLAB 15300	15300	-0.12	5490	-0.11	nr	nr	nr	nr	nr	nr	2910	0.08	AR	ES		
COMLAB 15150	15150	-0.39	5660	0.61	nr	nr	nr	nr	nr	nr	2910	0.08	AR	ES		
COMLAB 15600	15600	0.42	5510	-0.03	nr	nr	nr	nr	nr	nr	2900	0.01	4A	ES		
COMLAB 15550	15550	0.33	5450	-0.28	nr	nr	nr	nr	nr	nr	2750	-0.97	AR	AAS		
COMLAB 15400	15400	0.06	5640	0.10	nr	nr	nr	nr	nr	nr	2910	0.08	AR	AAS		
COMLAB 16100	16100	1.33	5950	1.84	nr	nr	nr	nr	nr	nr	3060	1.06	4A	AAS		
COMLAB 15600	15600	0.42	5400	-0.49	nr	nr	nr	nr	nr	nr	2900	0.01	AR	AAS		
COMLAB 15600	15600	0.42	5490	-0.11	nr	nr	nr	nr	nr	nr	2910	0.08	4A	ES		
COMLAB 14800	14800	-1.03	5500	-0.07	nr	nr	nr	nr	nr	nr	2900	0.01	4A	AAS		
COMLAB 15478	15478	0.20	5336	-0.76	nr	nr	nr	nr	nr	nr	2633	-1.74	4A	ES		
COMLAB 14700	14700	-1.21	5500	-0.07	nr	nr	nr	nr	nr	nr	2900	0.01	FUS	ES		
COMLAB 16700	16700	0.60	5560	0.19	160	2.11	170	3.00	170	-2.02	2900	-0.64	4A	AAS		
COMLAB 15126	15126	-0.44	5356	-0.68	nr	nr	nr	nr	nr	nr	3079	1.18	4A	ES		
COMLAB 15000	15000	-0.66	5600	0.36	100	-0.26	100	-0.89	200	-0.01	2900	0.01	4A	AAS		
COMLAB 15100	15100	-0.48	5480	-0.15	nr	nr	nr	nr	nr	nr	2850	-0.32	3A	ES		
COMLAB nr	nr	nr	6001	2.06	110	0.13	107	-0.41	200	-0.01	2774	-0.81	AR	AAS		
COMLAB 15949	15949	1.05	5410	-0.45	nr	nr	nr	nr	nr	nr	2896	-0.02	4A	AAS		
COMLAB nr	nr	nr	5273	-1.03	nr	nr	104	-0.61	nr	nr	2708	-1.25	4A	AAS		
COMLAB 15000	15000	-0.66	5000	-2.19	<1000	blid	<1000	blid	<1000	blid	3000	0.67	FUS	XRF		
COMLAB 14500	14500	-1.57	5370	-0.62	nr	nr	nr	nr	nr	nr	2770	-0.84	4A	ES		
COMLAB 14800	14800	-1.03	5330	-0.79	nr	nr	nr	nr	nr	nr	2810	-0.58	4A	ES		
COMLAB 14714	14714	-1.18	5275	-1.02	nr	nr	nr	nr	nr	nr	2600	-1.95	4A	MS,AAS		
COMLAB 14700	14700	-1.21	5450	-0.28	nr	nr	120	0.48	nr	nr	2840	-0.38	4A	ES		
COMLAB 14800	14800	-1.03	5310	-0.88	132	1.00	116	0.21	197	-0.21	2760	-0.91	4A	ES		
COMLAB 15060	15060	-0.56	5480	-0.15	nr	nr	nr	nr	nr	nr	2840	-0.38	4A,VOL	AAS		
COMLAB 15125	15125	-0.44	5488	-0.12	nr	nr	nr	nr	nr	nr	2858	-0.26	4A	AAS		
COMLAB 15300	15300	-0.12	5850	1.42	nr	nr	nr	nr	nr	nr	3270	2.44	4A,MICR	ES		
COMLAB 14720	14720	-1.17	4848	-2.84	nr	nr	nr	nr	nr	nr	2514	-2.52	AR	ES		
COMLAB 14860	14860	-0.74	5200	-1.34	611	3.00	101	-0.82	247	3.00	2894	-0.03	4A	ICP		
COMLAB 14991	14991	-0.68	5499	-0.07	nr	nr	nr	nr	nr	nr	2880	-0.12	4A	ES		
COMLAB 15100	15100	-0.48	5394	-0.52	123	0.65	128	1.03	211	0.73	2853	-0.30	4A	ES		
COMLAB 15800	15800	0.78	5600	0.36	nr	nr	nr	nr	nr	nr	2900	0.01	AR	ES		
COMLAB 14500	14500	-1.57	5600	0.36	nr	nr	nr	nr	nr	nr	2900	0.01	3A,4A	AAS		
COMLAB 15300	15300	-0.12	5400	-0.49	nr	nr	nr	nr	nr	nr	3000	0.67	3A	AAS		
COMLAB 15739	15739	0.67	5665	0.63	nr	nr	nr	nr	nr	nr	2805	-0.61	4A	ES		
COMLAB 15040	15040	-0.59	5558	0.18	nr	nr	nr	nr	nr	nr	3304	2.66	4A	ES		
COMLAB 14660	14660	-1.28	5300	-0.92	nr	nr	nr	nr	nr	nr	2900	0.01	AR	ES		
COMLAB 16193	16193	1.50	6164	2.75	nr	nr	nr	nr	nr	nr	3061	1.07	AR	ES		
COMLAB 15000	15000	-0.66	5530	0.06	<100	blid	100	-0.89	223	1.54	2940	0.27	AR	ES		
COMLAB 16650	16650	2.32	5510	-0.03	nr	nr	nr	nr	nr	nr	3005	0.70	4A	ICP		
COMLAB 14990	14990	-0.68	5365	-0.64	114	0.29	118	0.34	212	0.80	3038	0.92	4A	ES		
COMLAB >500	ald	ald	>500	ald	148	1.63	130	1.17	232	2.14	>500	ald	AR	MS		
COMLAB 17500	17500	3.00	5700	0.78	nr	nr	nr	nr	nr	nr	nr	nr	3A	AAS		
COMLAB 16014	16014	1.17	5862	1.47	426	3.00	132	1.30	464	3.00	3223	2.13	3A	ICP		
COMLAB 16258	16258	1.61	5525	3.00	nr	nr	nr	nr	nr	nr	nr	nr	4A	ICP		
COMLAB 15091	15091	-0.50	5337	-0.76	nr	nr	nr	nr	nr	nr	nr	nr	2804	-0.62	FUS	ICP
COMLAB 15148	15148	-0.40	5171	-1.47	nr	nr	nr	nr	nr	nr	nr	nr	2752	-0.96	4A	AAS
COMLAB 14340	14340	-1.86	5396	-0.51	nr	nr	nr	nr	nr	nr	nr	nr	3389	3.00	4A	AAS
COMLAB 15300	15300	-0.12	5370	-0.62	nr	nr	nr	nr	nr	nr	nr	nr	2800	-0.64	4A	AAS
COMLAB 15816	15816	0.81	5514	-0.01	nr	nr	nr	nr	nr	nr	nr	nr	3106	1.36	4A	AAS
COMLAB 15490	15490	0.22	5775	1.10	nr	nr	nr	nr	nr	nr	nr	nr	2936	0.25	4A	AAS
COMLAB 15000	15000	-0.66	5500	-0.07	nr	nr	nr	nr	nr	nr	nr	nr	2800	-0.64	4A	AAS
COMLAB 14791	14791	-1.04	5683	0.28	nr	nr	nr	nr	nr	nr	nr	nr	2891	-0.05	AR	MS
COMLAB 15100	15100	-0.48	5150	-1.56	75	-1.25	105	-0.55	351	3.00	2690	-1.37	4A	ES		
COMLAB 14771	14771	-1.08	5257	-1.10	124	0.69	140	1.85	207	0.46	2972	0.48	4A	AAS		
COMLAB 16500	16500	2.05	5710	0.82	nr	nr	nr	nr	nr	nr	nr	nr	3110	1.39	3A	ES
COMLAB 15500	15500	0.24	5800	1.21	nr	nr	nr	nr	nr	nr	nr	nr	3200	1.98	AR	ICP
COMLAB 16224	16224	1.55	5471	-0.19	nr	nr	nr	nr	nr	nr	nr	nr	2772	-0.83	AR	AAS
COMLAB 15100	15100	-0.48	5600	0.36	nr	nr	nr	nr	nr	nr	nr	nr	3000	0.67	FUS	XRF
COMLAB 15000	15000	-0.66	5700	0.78	nr	nr	nr	nr	nr	nr	nr	nr	2900	0.01	4A	ES
COMLAB 16000	16000	1.15	6300	3.00	nr	nr	nr	nr	nr	nr	nr	nr	3100	1.32	AR	ES
COMLAB 14825	14825	-0.98	4978	-2.29	79	-1.09	100	-0.89	193	-0.48	2555	-2.25	3A	AAS		
COMLAB 14444	14444	-1.67	5199	-1.35	nr	nr	nr	nr	nr	nr	nr	nr	2857	-0.27	AR	AAS
COMLAB 14859	14859	-0.92	5649	-0.57	nr	nr	nr	nr	nr	nr	nr	nr	2935	0.24	4A	AAS
COMLAB 14990	14990	-0.68	5580	0.27	111	0.17	90	-1.61	183	-1.13	3660	3.00	3A	ES		
COMLAB 15830	15830	0.84	5545	0.12												



# Ore Grade Nickel Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2014

Standard Reference	GBM314-11	GBM314-12	GBM314-13	GBM314-14	GBM314-15	GBM314-16
MEAN (ppm)	63	127	94113	4230	37	661
STDEV (ppm)	13	8	4242	187	7	36
95% CI (ppm)	6	4	872	37	3	15
95% CI (%)	9.69%	2.86%	0.93%	0.87%	9.16%	2.30%
MIN (ppm)	40	117	84386	3741	20	584
MEDIAN (ppm)	64	126	94361	4256	38	669
MAX (ppm)	83	146	103540	4732	50	718
IQR (ppm)	17	9	4957	226	9	29
COUNT	19	20	92	101	19	22

Standard Reference	GBM314-11		GBM314-12		GBM314-13		GBM314-14		GBM314-15		GBM314-16		Method	Reading		
	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score				
COMLAB	nr	nr	nr	nr	95600	0.35	4400	0.91	nr	nr	nr	nr	FUS	AAS		
COMLAB	nr	nr	nr	nr	107077	3.00	4361	0.70	nr	nr	nr	nr	4A	AAS		
COMLAB	nr	nr	nr	nr	93700	-0.10	nr	nr	nr	nr	nr	nr	4A	AAS		
COMLAB	76	1.00	128	0.10	95600	0.35	4390	0.86	31	-0.87	592	-1.93	4A	ICP		
COMLAB	nr	nr	nr	nr	97200	0.73	4270	0.22	nr	nr	nr	nr	AR	AAS		
COMLAB	nr	nr	nr	nr	92498	-0.38	4291	0.33	nr	nr	nr	nr	4A	MS		
COMLAB	nr	nr	nr	nr	89000	-1.21	4230	0.00	nr	nr	nr	nr	4A	ES		
COMLAB	60	-0.21	120	-0.89	97900	0.89	4340	0.59	30	-1.01	670	0.27	FUS	ES		
COMLAB	nr	nr	nr	nr	86474	-1.80	3995	-1.26	nr	nr	nr	nr	AR	ES		
COMLAB	nr	nr	nr	nr	96395	0.54	4433	1.09	nr	nr	nr	nr	4A	AAS		
COMLAB	50	-0.97	120	-0.89	99930	1.37	4320	0.48	30	-1.01	690	0.83	3A	ES		
COMLAB	nr	nr	nr	nr	93900	-0.05	4200	-0.16	nr	nr	nr	nr	4A	ES		
COMLAB	nr	nr	nr	nr	94300	0.04	4500	1.44	nr	nr	nr	nr	FUS	XRF		
COMLAB	nr	nr	nr	nr	95600	0.35	4390	0.86	nr	nr	nr	nr	4A	ES		
COMLAB	nr	nr	nr	nr	91730	-0.56	4110	-0.64	nr	nr	nr	nr	AR	ES		
COMLAB	60	-0.21	140	1.58	95300	0.28	4220	-0.05	40	0.34	690	0.83	4A	ES		
COMLAB	nr	nr	nr	nr	93500	-0.14	4180	-0.27	nr	nr	nr	nr	AR	ICP		
COMLAB	nr	nr	nr	nr	96000	0.44	4500	1.44	nr	nr	nr	nr	4A	ICP		
COMLAB	nr	nr	nr	nr	94886	0.18	4164	-0.35	nr	nr	nr	nr	4A	ES		
COMLAB	nr	nr	nr	nr	91500	-0.62	4140	-0.48	nr	nr	nr	nr	4A	ES		
COMLAB	nr	nr	nr	nr	95300	0.28	4320	0.48	nr	nr	nr	nr	4A	ES		
COMLAB	40	-1.73	120	-0.89	>300000	3.00	4030	-1.07	20	-2.35	630	-0.86	FUS	ES		
COMLAB	nr	nr	nr	nr	>50000	aid	4396	0.89	nr	nr	nr	nr	3A	ES		
COMLAB	nr	nr	nr	nr	93500	-0.14	4150	-0.43	nr	nr	nr	nr	AR	ES		
COMLAB	nr	nr	nr	nr	96000	0.44	4240	0.06	nr	nr	nr	nr	AR	ES		
COMLAB	nr	nr	nr	nr	93800	-0.07	4320	0.48	nr	nr	nr	nr	4A	ES		
COMLAB	nr	nr	nr	nr	94900	0.19	4270	0.22	nr	nr	nr	nr	AR	AAS		
COMLAB	nr	nr	nr	nr	94800	0.16	4390	0.86	nr	nr	nr	nr	4A	AAS		
COMLAB	nr	nr	nr	nr	92900	-0.29	4200	-0.16	nr	nr	nr	nr	AR	ES		
COMLAB	nr	nr	nr	nr	93000	-0.26	4370	0.75	nr	nr	nr	nr	4A	AAS		
COMLAB	nr	nr	nr	nr	97300	0.75	4100	-0.69	nr	nr	nr	nr	4A	AAS		
COMLAB	nr	nr	nr	nr	91017	-0.73	4070	-0.85	nr	nr	nr	nr	4A	ES		
COMLAB	nr	nr	nr	nr	93600	-0.12	4300	0.38	nr	nr	nr	nr	FUS	ES		
COMLAB	80	1.31	137	1.21	96900	0.66	4480	1.34	38	0.07	718	1.62	NAA	AAS		
COMLAB	nr	nr	nr	nr	94322	0.05	4379	0.80	nr	nr	nr	nr	4A	ES		
COMLAB	40	-1.73	130	0.35	88260	-1.38	4270	0.22	40	0.34	690	0.83	4A	AAS		
COMLAB	nr	nr	nr	nr	96400	0.54	4280	0.27	nr	nr	nr	nr	3A	ES		
COMLAB	63	0.02	125	-0.27	nr	nr	4138	-0.49	42	0.61	687	0.74	AR	AAS		
COMLAB	nr	nr	nr	nr	>50000	aid	4386	0.84	nr	nr	nr	nr	4A	AAS		
COMLAB	nr	nr	nr	nr	62125	-3.00	4158	-0.38	38	0.07	nr	nr	4A	AAS		
COMLAB	nr	nr	nr	nr	93800	-0.07	4260	0.16	nr	nr	nr	nr	4A	ES		
COMLAB	nr	nr	nr	nr	95900	0.42	4350	0.64	nr	nr	nr	nr	4A	ES		
COMLAB	nr	nr	nr	nr	>10000	aid	3774	-2.44	nr	nr	nr	nr	4A	MS		
COMLAB	nr	nr	nr	nr	92000	-0.50	4280	0.27	nr	nr	nr	nr	658	-0.07	4A	ES
COMLAB	83	1.54	146	1.71	93000	-0.26	4230	0.00	41	0.47	657	-0.10	4A	ES		
COMLAB	nr	nr	nr	nr	95460	0.32	4330	0.54	nr	nr	nr	nr	4A	AAS		
COMLAB	96395	3.00	4243	3.00	nr	nr	nr	nr	nr	nr	nr	nr	4A	ICP		
COMLAB	nr	nr	nr	nr	87000	-1.68	4060	-0.91	nr	nr	nr	nr	4A.MICR	ICP		
COMLAB	nr	nr	nr	nr	98505	1.04	3949	-1.50	nr	nr	nr	nr	AR	ES		
COMLAB	65	0.15	125	-0.27	99090	1.17	4100	-0.69	31	-0.85	672	0.32	4A	ICP		
COMLAB	nr	nr	nr	nr	95895	0.42	4369	0.74	nr	nr	nr	nr	4A	ES		
COMLAB	nr	nr	nr	nr	96000	0.44	4200	-0.16	nr	nr	nr	nr	4A	ES		
COMLAB	nr	nr	nr	nr	88100	-1.42	4200	-0.16	nr	nr	nr	nr	3A	AAS		
COMLAB	nr	nr	nr	nr	96845	0.64	4256	0.14	nr	nr	nr	nr	4A	ES		
COMLAB	nr	nr	nr	nr	95819	0.40	4430	1.07	nr	nr	nr	nr	4A	ES		
COMLAB	nr	nr	nr	nr	108700	3.00	4200	-0.16	nr	nr	nr	nr	AR	ES		
COMLAB	nr	nr	nr	nr	100170	1.43	4323	0.50	nr	nr	nr	nr	AR	ES		
COMLAB	<100	bid	121	-0.76	93100	-0.24	4160	-0.37	<100	bid	672	0.32	AR	ES		
COMLAB	nr	nr	nr	nr	107000	3.00	4220	-0.05	nr	nr	nr	nr	4A	ICP		
COMLAB	71	0.62	123	-0.52	84564	-2.25	4157	-0.39	49	1.55	655	-0.16	4A	ES		
COMLAB	117	3.00	96	-3.00	500	aid	>500	aid	75	3.00	424	-3.00	AR	MS		
COMLAB	nr	nr	nr	nr	99800	1.34	4400	0.91	nr	nr	nr	nr	3A	AAS		
COMLAB	52	-0.82	117	-1.26	87127	-1.65	3912	-1.70	34	-0.47	655	-0.16	3A	ICP		
COMLAB	nr	nr	nr	nr	84386	-2.29	3200	-3.00	nr	nr	nr	nr	4A	ICP		
COMLAB	nr	nr	nr	nr	91133	-0.70	4165	-0.35	nr	nr	nr	nr	FUS	ICP		
COMLAB	nr	nr	nr	nr	101000	1.62	4388	0.85	nr	nr	nr	nr	4A	AAS		
COMLAB	nr	nr	nr	nr	87043	-1.67	4665	2.33	nr	nr	nr	nr	4A	AAS		
COMLAB	nr	nr	nr	nr	95500	0.33	4000	-1.23	nr	nr	nr	nr	4A	AAS		
COMLAB	nr	nr	nr	nr	91412	-0.64	4326	0.51	nr	nr	nr	nr	4A	AAS		
COMLAB	nr	nr	nr	nr	98300	0.99	4268	0.20	nr	nr	nr	nr	4A	AAS		
COMLAB	nr	nr	nr	nr	101000	1.62	4170	-0.32	nr	nr	nr	nr	4A	AAS		
COMLAB	nr	nr	nr	nr	>1000	aid	>1000	aid	45	1.01	nr	nr	AR	MS		
COMLAB	64	0.09	127	-0.02	87300	-1.61	4250	0.11	80	3.00	671	0.29	4A	ES		
COMLAB	69	0.47	129	0.16	90273	-0.91	4306	0.41	37	-0.13	673	0.35	4A	AAS		
COMLAB	nr	nr	nr	nr	98800	1.10	4063	-0.89	nr	nr	nr	nr	4A.TITR	ICP		
COMLAB	nr	nr	nr	nr	94400	0.07	4300	0.38	nr	nr	nr	nr	AR	AAS		
COMLAB	nr	nr	nr	nr	95860	0.41	3985	-1.31	nr	nr	nr	nr	AR	AAS		
COMLAB	nr	nr	nr	nr	93900	-0.05	4000	-1.23	<500	bid	<500	-3.00	FUS	XRF		
COMLAB	nr	nr	nr	nr	87700	-1.51	4200	-0.16	nr	nr	nr	nr	4A	ES		
COMLAB	nr	nr	nr	nr	90100	-0.95	4300	0.38	nr	nr	nr	nr	4A	ICP		
COMLAB	46	-1.27	120	-0.89	87326	-1.60	3363	-3.00	50	1.68	609	-1.45	3A	AAS		
COMLAB	nr	nr	nr	nr	96539	0.57	4377	0.79	nr	nr	nr	nr	AR	AAS		
COMLAB	nr	nr	nr	nr	96046	0.46	4223	-0.04	nr	nr	nr	nr	4A	AAS		
COMLAB	83	1.50	128	0.10	92520	-0.38	4370	0.75	46	1.20	655	-0.16	3A	ES		
COMLAB	nr	nr	nr	nr	101300	1.69	4252	0.12	nr	nr	nr	nr	1A	AAS		
COMLAB	nr	nr	nr	nr	103540	2.22	4330	0.54	nr	nr	nr	nr				

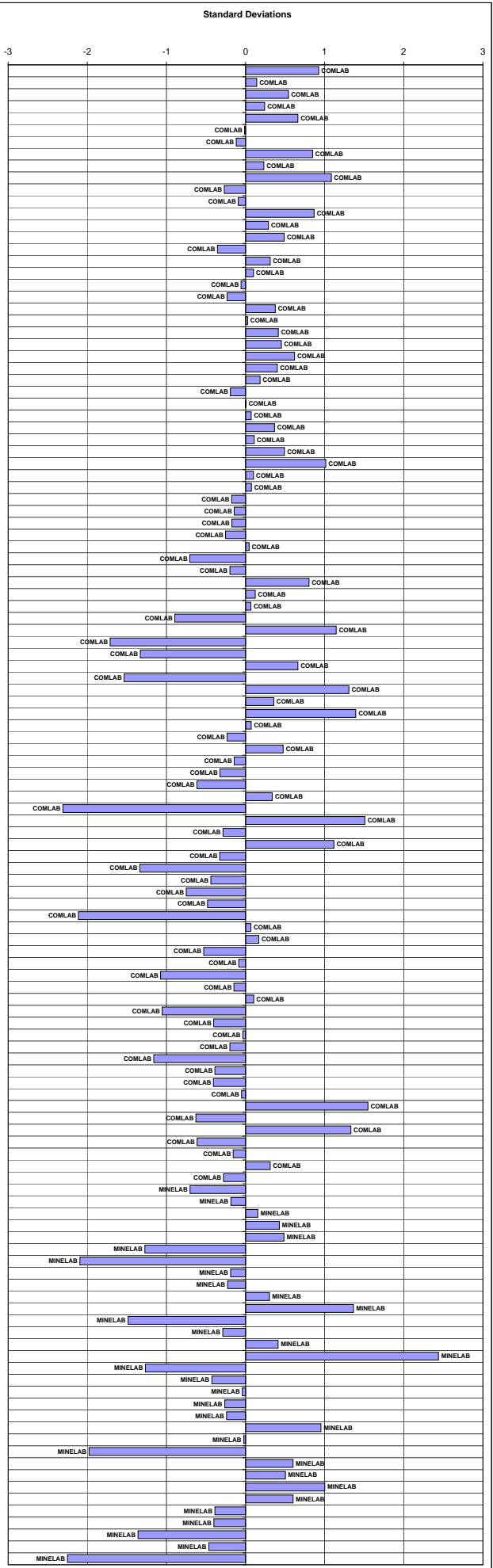


Ore Grade Silver Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2014

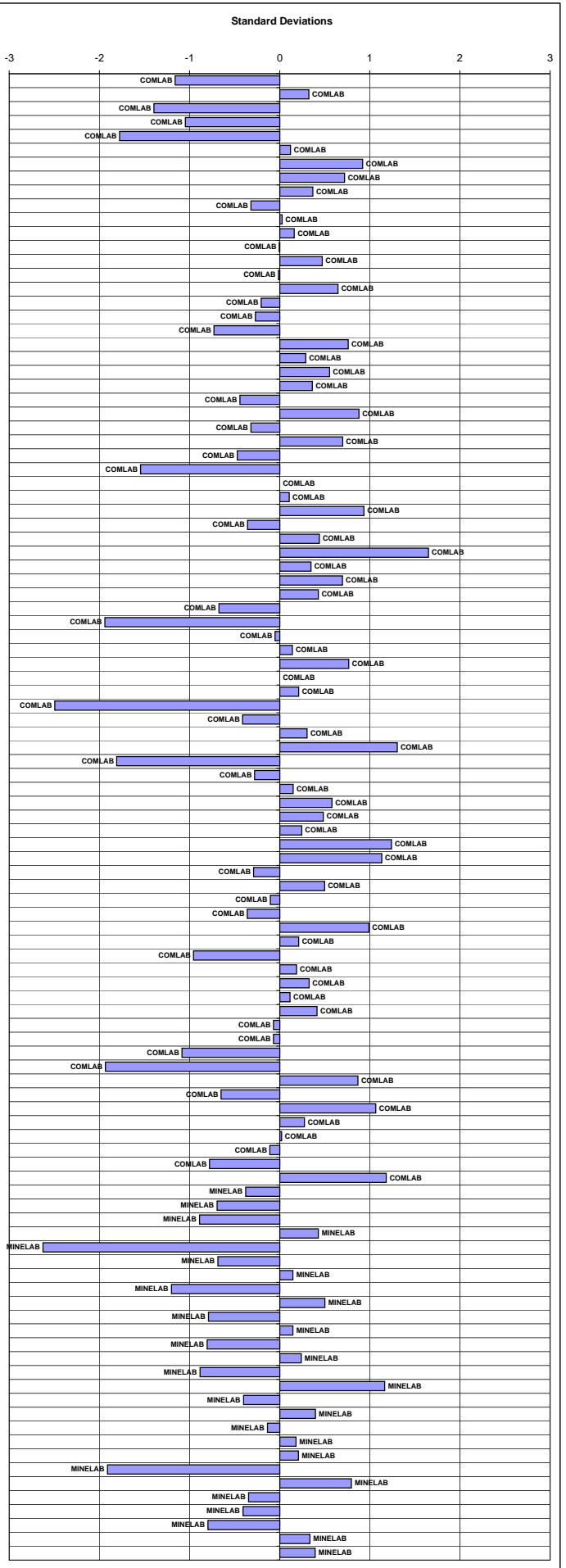
Standard Reference	GBM314-11	GBM314-12	GBM314-13	GBM314-14	GBM314-15	GBM314-16
MEAN (ppm)	51.6	3.1	4.3	0.6	176.2	89.4
STDEV (ppm)	3.4	0.7	0.5	0.3	7.6	5.2
95% CI (ppm)	0.6	0.1	0.1	0.1	1.4	1.0
95% CI (%)	1.20%	4.70%	2.46%	17.65%	0.81%	1.08%
MIN (ppm)	43.0	1.0	3.0	0.2	157.0	77.1
MEDIAN (ppm)	51.3	3.0	4.2	0.5	177.5	89.2
MAX (ppm)	61.0	4.9	5.8	1.5	198.0	104.0
IQR (ppm)	3.4	0.7	0.6	0.5	9.8	5.5
COUNT	118	103	100	43	112	115

Standard Reference	GBM314-11		GBM314-12		GBM314-13		GBM314-14		GBM314-15		GBM314-16		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
COMLAB	52.0	0.13	<3.0	bid	5.0	1.31	<3.0	bid	181.0	0.63	98.0	1.63		ES
COMLAB	52.0	0.13	2.7	-0.47	3.9	-0.74	0.3	-0.85	187.1	1.43	96.6	1.37	4A	AAS
COMLAB	61.0	2.76	2.9	-0.20	4.1	-0.36	0.4	-0.56	192.0	0.76	94.0	0.87	AR	AAS
COMLAB	52.9	0.38	3.1	0.07	4.4	0.20	<0.3	bid	183.0	0.89	87.7	-0.33	4A	ICP
COMLAB	57.7	1.80	3.0	-0.07	4.3	0.01	0.3	-0.85	185.6	1.23	99.2	1.86	AR	AAS
COMLAB	58.0	1.89	2.8	-0.34	4.7	0.76	0.3	-0.81	142.0	-3.00	97.0	1.44	AR	MS
COMLAB	49.0	-0.75	<3.0	bid	4.0	-0.55	<3.0	bid	173.0	-0.42	96.0	1.25	4A	ES
COMLAB	80.9	3.00	4.4	1.82	4.9	1.13	<2.5	bid	164.0	-1.60	88.8	-0.12	4A	ES
COMLAB	98.8	3.00	2.7	-0.54	4.2	-0.27	0.2	-1.14	172.4	-0.49	93.9	0.85	3A	AAS
COMLAB	52.0	0.13	4.0	1.28	6.0	3.00	1.0	1.17	181.0	0.63	91.0	0.30	4A	AAS
COMLAB	49.0	-0.75	<5.0	bid	<5.0	bid	<5.0	bid	175.0	-0.16	90.0	0.11	3A	ES
COMLAB	51.0	-0.16	3.0	-0.07	4.0	-0.55	<1.0	bid	175.0	-0.16	92.0	0.49	4A	ES
COMLAB	55.0	1.01	4.0	1.28	5.0	1.31	1.0	1.17	183.0	0.89	87.0	-0.46	3A	AAS
COMLAB	50.0	-0.46	3.0	-0.07	5.0	1.31	<1.0	bid	179.0	0.37	91.0	0.30	4A	ES
COMLAB	55.5	1.15	3.2	0.20	4.7	0.76	<1.0	bid	177.9	0.22	90.0	0.11	AR	ES
COMLAB	50.0	-0.46	3.0	-0.07	4.0	-0.55	<1.0	bid	173.0	-0.42	88.0	-0.27	4A	ES
COMLAB	53.0	0.42	3.0	-0.07	5.0	1.31	<1.0	bid	176.0	-0.03	89.0	-0.08	4A	ES
COMLAB	54.0	0.71	3.0	-0.07	4.0	-0.55	<1.0	bid	180.0	0.50	89.0	-0.08	4A	ICP
COMLAB	52.4	0.25	2.7	-0.47	4.1	-0.36	<1.0	bid	179.3	0.41	88.9	-0.10	4A	ES
COMLAB	49.0	-0.75	2.0	-1.42	4.0	-0.55	<1.0	bid	180.0	0.50	95.0	1.06	4A	ES
COMLAB	60.0	2.47	<2.0	bid	<2.0	bid	<2.0	bid	188.0	1.54	92.0	0.49	4A	AAS
COMLAB	56.0	1.30	2.0	-1.42	4.0	-0.55	<1.0	bid	183.0	0.89	89.0	-0.08	FUS	ES
COMLAB	52.0	0.13	<5.0	bid	<5.0	bid	<5.0	bid	181.0	0.63	92.0	0.49	3A	ES
COMLAB	55.0	1.01	3.0	-0.07	4.0	-0.55	1.0	1.17	177.0	0.10	95.0	1.06	AR	ES
COMLAB	53.0	0.42	4.0	1.28	4.0	-0.55	<1.0	bid	183.0	0.89	95.0	1.06	AR	ES
COMLAB	53.0	0.42	3.0	-0.07	5.0	1.31	<1.0	bid	178.0	0.24	90.0	0.11	4A	ES
COMLAB	51.0	-0.16	4.0	1.28	4.0	-0.55	1.0	1.17	175.0	-0.16	87.0	-0.46	AR	AAS
COMLAB	49.0	-0.75	3.0	-0.07	4.0	-0.55	<1.0	bid	180.0	0.50	89.0	-0.08	AR	AAS
COMLAB	51.0	-0.16	3.0	-0.07	4.0	-0.55	1.0	1.17	177.0	0.10	87.0	-0.46	4A	AAS
COMLAB	50.0	-0.46	2.0	-1.42	5.0	1.31	<1.0	bid	181.0	0.63	91.0	0.30	AR	AAS
COMLAB	52.0	0.13	3.0	-0.07	5.0	1.31	<1.0	bid	176.0	-0.03	92.0	0.49	4A	ES
COMLAB	49.6	-0.57	nr	nr	4.1	-0.36	<0.7	bid	184.0	1.02	91.3	0.36	FA	GRAV
COMLAB	56.5	1.45	3.1	0.07	4.4	0.20	0.6	0.02	183.0	0.89	91.2	0.34	4A	ES
COMLAB	59.0	2.18	3.0	-0.07	4.0	-0.55	<1.0	bid	192.0	2.07	97.0	1.44	NAA	
COMLAB	46.0	-1.63	3.0	-0.07	5.0	1.31	<2.0	bid	172.0	-0.55	97.0	1.44	4A	ES
COMLAB	51.0	-0.16	2.0	-1.42	5.0	1.31	<2.0	bid	176.0	-0.03	93.0	0.68	4A	AAS
COMLAB	51.2	-0.11	2.8	-0.34	4.4	0.20	0.4	-0.56	178.0	0.24	87.0	-0.46	3A	MS
COMLAB	51.7	0.04	3.4	0.47	nr	nr	<1.0	bid	170.0	-0.81	88.0	-0.27	AR	AAS
COMLAB	51.2	-0.11	3.1	0.07	4.3	0.01	<1.0	bid	172.0	-0.55	88.0	-0.27	4A	AAS
COMLAB	51.1	-0.14	2.7	-0.47	4.2	-0.18	<1.0	bid	174.3	-0.25	88.3	-0.22	4A	AAS
COMLAB	52.0	0.13	<4.0	bid	4.0	-0.55	<4.0	bid	180.0	0.50	90.0	0.11	AR	AAS
COMLAB	50.0	-0.46	<5.0	bid	<5.0	bid	<5.0	bid	170.0	-0.81	85.0	-0.85	4A	ES
COMLAB	52.0	0.13	3.5	0.61	4.0	-0.55	0.5	-0.27	175.0	-0.16	84.5	-0.94	4A	MS
COMLAB	50.6	-0.28	3.1	0.07	4.3	0.01	<0.1	bid	185.5	1.22	128.4	3.00	4A	MS
COMLAB	49.6	-0.57	2.9	-0.20	4.2	-0.18	nr	nr	184.0	1.02	92.3	0.55	4A	MS
COMLAB	53.7	0.63	3.4	0.40	4.3	-0.08	0.2	-1.14	176.0	-0.03	92.7	0.62	4A	MS
COMLAB	49.1	-0.72	2.5	-0.75	3.9	-0.74	<0.5	bid	173.0	-0.42	79.8	-1.84	4A	AAS
COMLAB	51.5	-0.02	4.8	2.36	5.3	1.87	0.7	0.30	182.0	0.76	97.8	1.60	4A	AAS
COMLAB	44.1	-2.19	2.6	-0.58	4.0	-0.51	0.3	-0.99	151.0	-3.00	64.1	-3.00	4A,MICR	MS,ES
COMLAB	46.6	-1.75	2.4	-0.89	3.6	-1.37	<1.0	bid	179.0	0.37	72.2	-3.00	AR	AAS
COMLAB	56.0	1.30	3.1	0.09	4.3	0.08	<1.0	bid	178.0	0.37	97.1	1.46	4A	ICP
COMLAB	45.0	-1.92	2.0	-1.42	3.0	-2.41	<2.0	bid	171.0	-0.68	83.0	-1.23	4A	ES
COMLAB	54.7	0.92	3.6	0.74	6.4	3.00	3.5	3.00	177.6	0.18	89.4	-0.01	4A	ES
COMLAB	53.3	0.51	2.5	-0.75	7.9	3.00	0.8	0.59	171.3	-0.64	86.5	-0.56	4A	ES
COMLAB	52.0	0.13	8.0	3.00	7.0	3.00	2.0	3.00	171.0	-0.68	89.0	-0.08	3A,4A	AAS
COMLAB	50.0	-0.46	<5.0	bid	5.0	1.31	<5.0	bid	171.0	-0.68	90.0	0.11	3A	AAS
COMLAB	54.1	0.74	3.4	0.47	4.0	-0.55	0.2	-1.14	175.7	-0.07	84.9	-0.86	4A	ES
COMLAB	53.0	0.42	<5.0	bid	<5.0	bid	<5.0	bid	186.0	1.28	88.0	-0.27	4A	ES
COMLAB	48.0	-1.04	3.4	0.47	4.6	0.57	0.8	0.59	160.0	-2.12	93.0	0.68	AR	ES
COMLAB	49.8	-0.53	2.8	-0.33	4.1	-0.31	<1.0	bid	184.7	1.11	81.3	-1.56	AR	AAS
COMLAB	47.7	-1.13	2.6	-0.65	1.2	-3.00	<1.0	bid	168.0	-1.07	104.0	2.78	AR	ES
COMLAB	51.0	-0.16	3.4	0.40	4.5	0.38	<0.5	bid	178.5	0.30	93.5	0.78	4A	ICP
COMLAB	45.0	-1.92	1.0	-2.77	3.0	-2.41	<0.5	bid	159.0	-2.25	78.0	-2.18	4A	AAS
COMLAB	59.0	2.18	<5.0	bid	<5.0	bid	<5.0	bid	186.0	1.28	95.0	1.06	4A	ES
COMLAB	33.5	-3.00	2.1	-1.29	5.5	2.25	0.7	0.33	204.0	3.00	48.7	-3.00	AR	MS
COMLAB	53.2	0.48	4.9	2.50	4.9	1.13	1.1	1.46	181.6	0.71	91.7	0.43	3A	AAS
COMLAB	46.6	-1.45	4.7	2.23	5.0	1.31	0.7	0.30	165.9	-1.35	31.9	-3.00	3A	ICP
COMLAB	44.0	-2.22	3.0	-0.07	4.0	-0.55	0.3	-0.85	166.0	-1.34	68.0	-3.00	4A	ICP
COMLAB	51.2	-0.11	2.6	-0.61	4.2	-0.10	0.3	-0.76	170.8	-0.71	87.7	-0.33	AR	AAS
COMLAB	50.3	-0.37	2.7	-0.47	4.2	-0.18	0.6	0.02	165.8	-1.36	78.3	-2.12	4A	AAS
COMLAB	51.0	-0.16	2.7	-0.47	4.3	0.01	<0.5	bid	173.0	-0.42	82.4	-1.34	4A	AAS
COMLAB	<100.0	bid	<100.0	bid	<100.0	bid	<100.0	bid	160.1	-2.11	<100.0	bid	4A	AAS
COMLAB	52.5	0.27	3.1	0.07	4.0	-0.55	<0.3	bid	179.8	0.47	89.9	0.09	4A	AAS
COMLAB	53.0	0.42	<5.0	bid	<5.0	bid	<5.0	bid	176.0	-0.03	90.0	0.11	4A	AAS
COMLAB	50.5	-0.31	2.3	-1.02	3.5	-1.46	<0.1	bid	181.0	0.62	87.0	-0.47	AR	MS
COMLAB	55.0	1.01	3.0	-0.07	4.0	-0.55	<1.0	bid	175.0	-0.16	86.0	-0.66	3A	AAS
COMLAB	52.3	0.22	1.5	-2.10	4.4	0.20	<0.5	bid	157.0	-2.51	83.3	-1.17	4A	ES
COMLAB	52.0	0.13	2.5	-0.75	4.0	-0.55	<1.0	bid	179.0	0.37	89.8	0.08	4A	AAS
COMLAB	49.0	-0.75	3.0	-0.07	5.0	1.31	<1.0	bid	180.0	0.50	87.0	-0.46	3A	
COMLAB	50.4	-0.34	2.0	-1.42	3.8	-0.92	<0.3	bid	169.0	-0.94	80.8	-1.65		ICP
COMLAB	49.0	-0.75	4.0	1.28	3.0	-2.41	3.0	3.00	163.0	-1.73	80.0	-1.80	3A,FA	AAS,GRAV
COMLAB	51.6	0.01	3.1	0.07	4.6	0.57	0.3	-0.85	178.1	0.25	88.1	-0.25	AR	AAS
COMLAB	49.9	-0.78	2.9	-0.20	5.0	1.31	0.3	-0.85	178.8	0.34	84.2	-1.00	3A	ICP
COMLAB	49.2	-0.69	3.0	-0.07	3.8	-0.92	<0.5	bid	145.9	-3.00	83.6	-1.11	3A	AAS
COMLAB	51.8	0.07	2.6	-0.66	3.9	-0.66	<0.5	bid	174.0	-0.29	87.4	-0.39	AR	AAS
COMLAB	52.6	0.30	2.5	-0.75	3.8	-0.92	0.3	-0.85	174.0	-0.29	89.8	0.07	4A	AAS
COMLAB	48.3	-0.96	2.											

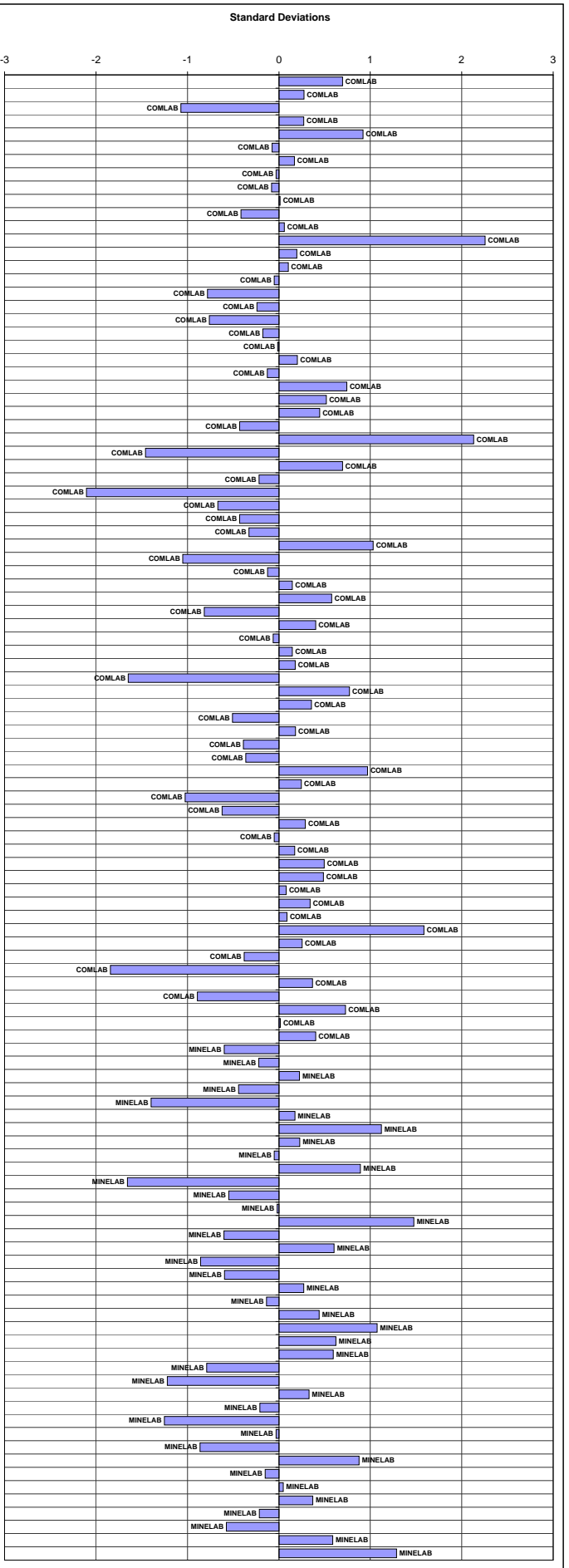
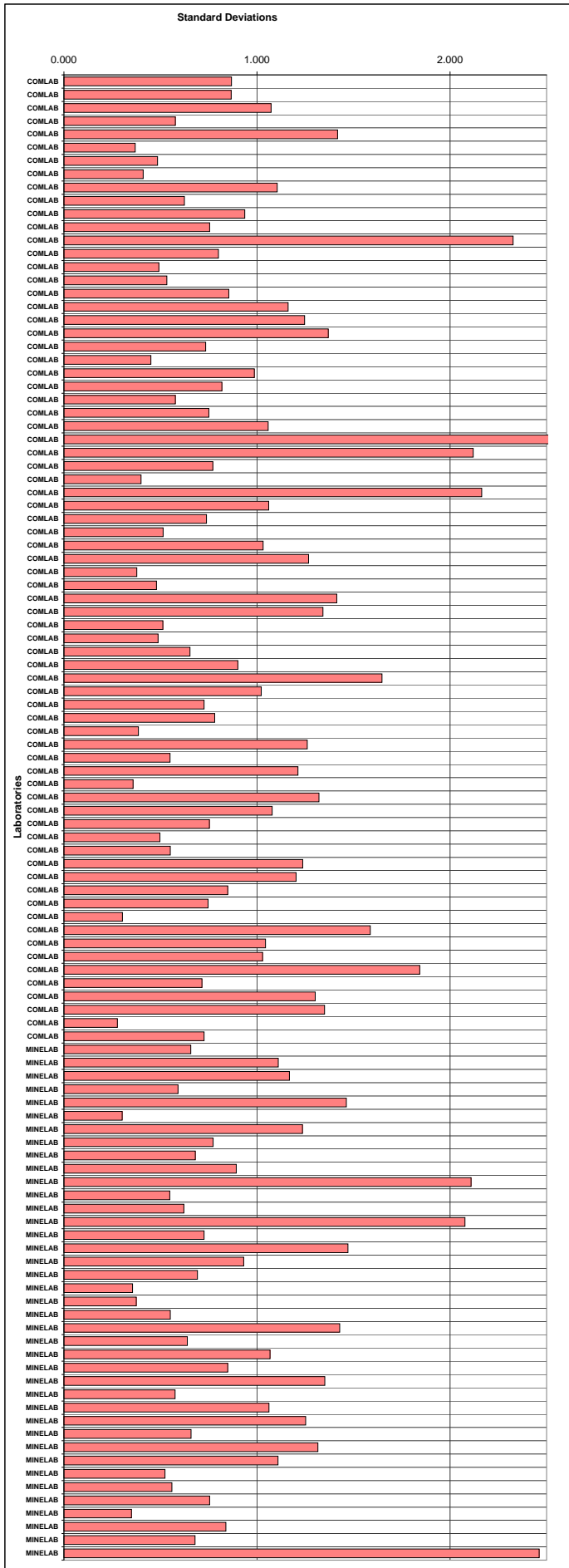




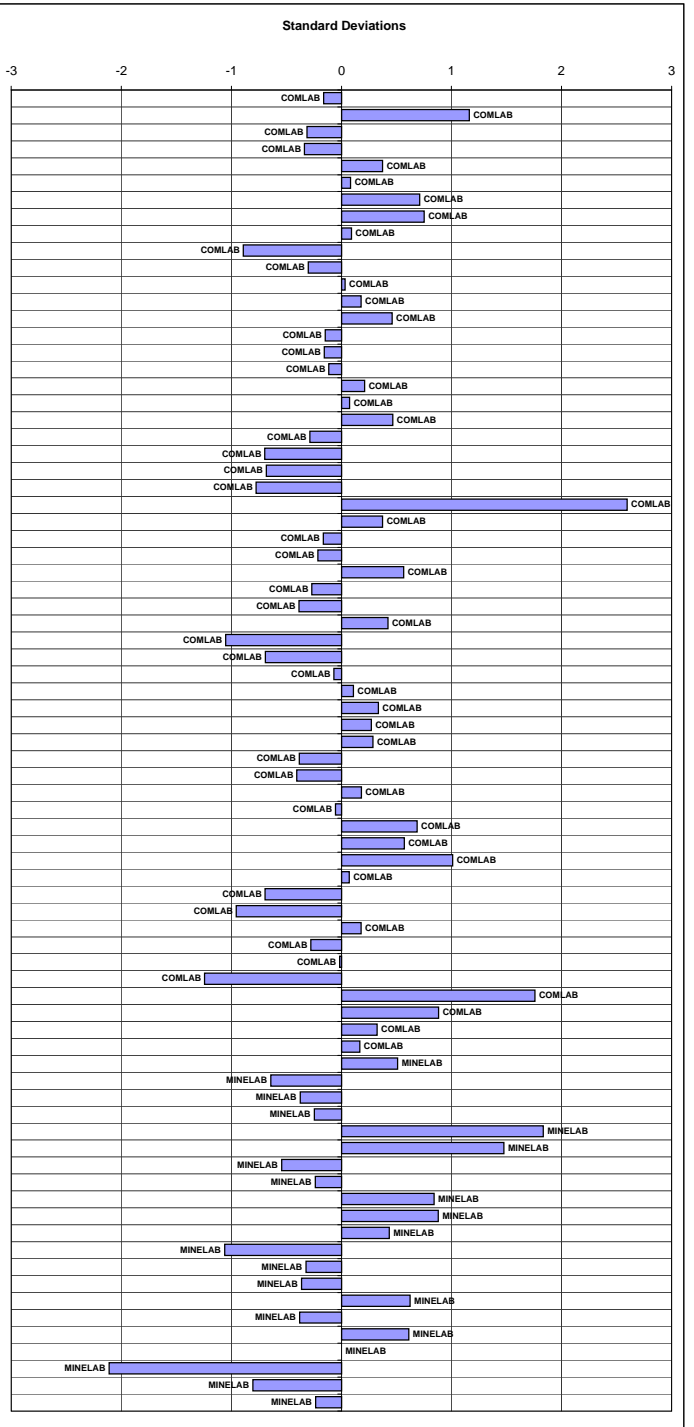












**BECQUEREL CANADA - NEUTRON ACTIVATION ANALYSIS REPORT**

**NAA Results - Gold and Base Metals**

		G314-1	G314-2	G314-3	G314-4	G314-5	G314-6	G314-7	G314-8	G314-9	G314-10	GLG314-1	GLG314-2	GLG314-3	GLG314-4	GLG314-5	GBM314-1	GBM314-2	GBM314-3	GBM314-4	GBM314-5	GBM314-6	GBM314-7	GBM314-8	GBM314-9	GBM314-10	GBM314-11	GBM314-12	GBM314-13	GBM314-14	GBM314-15	GBM314-16
<b>Sb</b>	ppm	0.2	1.2	<0.1	0.3	<0.1	<0.1	<0.1	1	0.7	<0.1	<0.1	<0.1	0.1	0.1	0.5	272	75.5	5.3	1.1	<0.1	0.2	<0.1	0.8	<0.1	<0.1	68.2	1.1	7.4	1.7	246	217
<b>As</b>	ppm	4	3	<1	14	<1	<1	<1	6	6	<1	<1	<1	55	31	5	5200	4650	390	3	3	13	1	<1	<1	<1	320	47	67	113	901	209
<b>Ba</b>	ppm	450	480	280	540	590	400	390	400	340	580	510	120	170	570	410	<370	<180	350	410	370	530	440	280	620	120	<50	70	130	<50	580	<310
<b>Br</b>	ppm	0.9	0.5	0.7	1	0.7	<0.5	<0.5	2.2	2.2	1	1.7	<0.2	<0.5	<1.2	1.4	<5	<2.5	<0.5	<0.5	0.6	0.9	1.1	<0.5	<0.5	<0.5	<0.5	<0.5	1.6	7.6	<0.895	<2
<b>Cd</b>	ppm	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	342	<13	<5	<5	<5	<5	<5	<5	<5	<5	46.9	24.8	<5	<5	<5	<24.9
<b>Ce</b>	ppm	55	53	24	112	42	44	34	36	36	45	53	22	28	49	52	<83	<59	30	35	36	86	38	24	61	28	<36	21	<18	11	55	<93
<b>Cs</b>	ppm	2.4	3.4	1.3	2.3	3	1.8	1.8	2.4	2	3.8	3	0.7	<0.5	3.7	2.2	<3.5	1.8	1.1	2.5	2	2.3	2.2	1.5	1	0.6	0.9	1.2	<0.5	2.1	3.3	<2.5
<b>Cr</b>	ppm	90	90	140	140	120	130	140	90	100	120	30	210	210	30	140	220	<140	<20	80	70	110	<20	60	80	160	100	<20	300	1090	<90	<160
<b>Co</b>	ppm	26	24	33	240	20	25	26	12	16	28	12	48	52	45	19	89	7	7	19	23	220	8	33	35	42	152	108	109	147	19	310
<b>Eu</b>	ppm	1	1	2	2	1	1	<1	1	1	2	<1	2	2	1	1	<6	<4	<1	<1	<1	1	<1	2	2	2	4	2	<1	<1	3	<4
<b>Au</b>	ppb	800	1070	7300	110	6200	2160	2700	1150	1700	440	<1	<1.28	120	60	100	1980	5110	1900	1010	780	120	2.45	57.1	280	<1.82	21200	89.6	120	1050	2540	99800
<b>Hf</b>	ppm	5	5	4	7	5	5	4	7	7	5	5	5	5	4	7	<8	<5	2	4	4	6	4	5	6	4	4	3	4	<1	<2	<7
<b>Ir</b>	ppb	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<213	<132	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<181
<b>Fe</b>	%	6.7	4.2	7.2	4.5	4.6	6.5	6.1	6.2	7	5.1	3	9.3	8.8	1.4	8.4	23	7.2	4.4	4	5.4	3.6	2.4	7.3	7.7	8.3	11.4	12.7	4.4	7.1	4.5	31
<b>La</b>	ppm	28	29	19	49	28	23	21	21	20	24	29	11	11	28	23	9	6	20	22	22	40	22	16	35	10	19	13	8	5	42	26
<b>Lu</b>	ppm	0.3	0.3	0.4	0.3	<0.2	0.4	0.3	0.2	0.2	<0.2	<0.2	0.5	0.5	<0.2	<0.2	<0.9	0.9	0.2	<0.2	<0.2	<0.2	<0.2	0.3	0.5	0.4	0.4	0.4	0.4	<0.2	0.6	<1.08
<b>Mo</b>	ppm	26	4	24	7	23	23	22	24	19	8	2	<1	76	47	21	<10	<5	2	2	19	6	<1	9	<1	<1	158	18	<1	2	22	2718
<b>Ni</b>	ppm	32	25	33	83	29	23	32	18	16	36	23	59	61	116	25	10	32	9	22	28	78	14	36	38	41	80	137	96900	4480	38	718
<b>Rb</b>	ppm	120	140	80	160	150	100	90	150	130	13	200	20	<10	230	100	<50	<20	50	110	110	140	180	50	40	13	20	40	<10	20	60	<30
<b>Sm</b>	ppm	5.3	5	5.1	8.4	5	5	4.9	3.1	3.6	5.1	4	6.8	6.4	3.1	4	1.2	1.6	3.4	4.3	4.6	7.8	3.4	5.4	7.9	5.9	5.8	4.7	3.4	1	5.2	2.5
<b>Sc</b>	ppm	19.6	18.9	26.4	18.3	15.7	23.2	22.7	12.3	14.6	18.6	9.1	35.2	33.7	4.1	19.7	<1.3	1.9	8.7	14.2	15.3	14.8	6.7	23.9	25.9	32.1	29.2	20.3	18.3	7.6	3.2	3.8
<b>Se</b>	ppm	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<52.7	<27.1	<5	<5	<5	<5	<5	<5	<5	<5	26.8	189	<5	<5	<14.4	167
<b>Ag</b>	ppm	<2	7	<2	<2	<2	7	5	6	5	<2	<2	<2	1.94	<2	<2	200	3	7	6	3	<1	<1	4	4	<1	59	3	4	<1	192	97
<b>Na</b>	%	2.47	2.77	2.6	1.23	2.53	2.7	2.55	2.11	1.99	2.57	2.57	2.26	2.26	2.59	2.33	0.0474	0.0407	0.684	1.94	1.82	0.924	1.85	1.86	2.01	1.96	1.81	1.18	1.16	0.341	1.2	0.89
<b>Ta</b>	ppm	1.7	1.9	1.3	1.1	2	1.3	1.3	2.6	2.3	1.5	2.4	0.7	0.6	2.7	2	<2	<0.9	<0.5	1.1	1.3	0.7	2.1	1.2	0.9	0.7	<0.5	0.6	<0.5	<0.5	<0.5	<0.95
<b>Tb</b>	ppm	1	1	1.1	1.2	1	1	1	0.8	0.8	0.9	0.8	1.4	1.4	0.7	0.9	<1.4	<0.5	<0.5	0.8	0.8	0.9	0.6	1	1.1	1	0.8	0.8	0.9	<0.5	<0.5	<1.4
<b>Th</b>	ppm	17.2	18.8	9.2	13.4	26.4	12.9	12.2	34.6	34.6	17.2	22.1	1.1	0.9	25.1	35.4	<3.5	<1.7	4.6	15.4	14.4	12.3	19.7	7.4	10.6	0.6	1.5	3.9	1.8	1.4	15	13.71
<b>W</b>	ppm	1	<1	1	2	1	<1	<1	1	1	1	1	<1	<1	<1	1	<3	<1	6	<1	1	1	1	1	<1	<1	57	<1	<1	3	3	14
<b>U</b>	ppm	9.2	9.6	6	13.4	14	6.5	6.3	11.7	10.4	8.7	14.1	0.5	<0.5	17.3	8.1	3.8	<0.8	4.2	8.6	8.4	13.2	13	3.8	2.7	<0.5	1.8	2.5	<0.5	0.7	4.9	7.4
<b>Yb</b>	ppm	2	3	3	3	<2	3	2	<2	<2	2	3	4	4	2	<2	<7	<5	3	3	3	4	3	3	4	3	5	<2	2	<2	<2	<6
<b>Zn</b>	ppm	<100	630	120	150	<100	120	120	<100	80	90	<100	220	220	<100	100	112000	980	220	430	<100	100	<100	100	<100	110	15700	5560	160	170	170	2800