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Certificate of Participation

This is to certify that

Zarazma Minerals Studies Company

has participated in the October 2012
Geostats Survey of International Laboratories

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Managing Director

Geostats Laboratory Survey
October 2012

Prepared for
Zarazma Minerals Studies Company

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 - October 2012

Western Australia		Ireland	
ACTLABS PER	Actlabs Pacific Pty Ltd	ALSM IRELAND	Omac Laboratories - Ireland
ALSM KAL	ALS Minerals - Kalgoorlie	Kyrgyz Republic	
ALSM PERTH	ALS Minerals - Perth	ALSM KYRGYZSTAN	Stewart Assay and Environmental Laboratories LLC
AMMTEC	Ammtec Laboratory	KUMTOR KYRGYZ	Kumtor Kyrgyz
BV KAL	Amdel Laboratory - Kalgoorlie	Laos	
BV ULTRA TRACE	Ultra Trace Pty Ltd	ALSM LAOS	ALS Minerals Vientiane (Laos)
DARLOT MINE	Darlot Gold Mine Assay Lab	PHU BIA LAOS	Phu Bia Mining Limited
GEN PER	Genalysis Laboratory Services Pty Ltd	SEFON LAOS	Lang Xang Minerals
GOLDEN GROVE	MMG Golden Grove	Malaysia	
GRANNYS	Granny Smith Gold Mine Laboratory	PENJOM MALAYSIA	Penjom Gold Mine
KAL PER	Kalassay Group (Perth Assay Laboratory)	Mali	
KALGOORLIE AL	Kalassay Group (Kalgoorlie Assay Laboratory)	ALSM MALI	Groupe de Laboratoire ALS Mali SARL
LABWEST	LabWest	SADIOLA MALI	Sadiola Mine Site Laboratory
LAWLERS MINE	Lawlers Gold Mine Assay Lab	SGS KAYES	SGS Laboratory - Kayes
MINANALYTICAL	MinAnalytical	SGS MALI GCEX	Analabs Morila Laboratory
NEWCREST TELFER	Newcrest Mining Limited - Telfer Gold Mine Lab	SGS SYAMA	SGS Minerals Syama Laboratory
NIFTY CU OP	Nifty Minesite Laboratory	Mauritania	
PLUTONIC MINE	Plutonic Gold Mine Assay Lab	SGS MAURITANIA	SGS Mineral Services Mauritania
SGS JUNDEE	SGS Jundee	Mexico	
SGS KALG	SGS Kalgoorlie	ACTLABS MEXICO	Actlabs Mexico SA de CV
SGS NEWBURN	SGS Newburn	Mongolia	
SGS ORESTEST	SGS Orestest	ACTLABS MONGOLIA	Actlabs Asia LLC
New South Wales		ALSM MONGOLIA	Stewart Mongolia LLC
ALSM ORANGE	ALS Minerals - Orange	SGS ULAAN	SGS Mongolia LLC
SGS WYALONG	SGS Wyalong	Morocco	
Northern Territory		MANAGEM AGM	AGM Laboratoire AKKA
GRANITES	Granites Gold Mine	MANAGEM REMINEX	Reminex Centre de Recherche
NTEL DARWIN	Northern Territory Environmental Laboratories	Namibia	
Queensland		BV NAMIBIA	Bureau Veritas Mineral Laboratories - Namibia
ALSM BRIS	ALS Minerals - Brisbane	New Zealand	
ALSM MT ISA	ALS Minerals - Mt Isa	SGS NZ MACRAES	SGS New Zealand, Macraes Laboratory
ALSM TVL	ALS Minerals - Townsville	SGS NZ REEFTON	SGS New Zealand, Reefton Laboratory
BHP CANNINGTON	BHP Billiton Cannington	SGS NZ WAIHI	SGS New Zealand, Minerals Laboratory
BV MT ISA	Amdel Mt Isa	Papua New Guinea	
CHEM LAB XSTR	Xstrata Chemical Laboratory	ITS MOROBE	ITS (PNG) Limited
GEN TOWNSVILLE	Genalysis Testing Services, Townsville	Peru	
HRLTESTING	HRL Testing	ACTLABS LIMA	Actlabs - Skyline Peru SAC
MMG CENTURY	MMG Century Mine	ALSM LIMA	ALSM Peru S.A.
OK TEDI	Ok Tedi	CERTIMIN	Certimin S.A.
PORGERA	Porgera Gold Mine Laboratory	CMH PERU	Consortio Minero Horizonte S.A.
SGS TOWNSVILLE	SGS Townsville	LAGUNA'S MINE	Minera Barrick Misquichilca - Unidad Lagunas Norte
South Australia		NEW PERU	Minera Yanacocha SRL - Newmont Lab (Peru)
BHP OLYMPIC	BHP Billiton	PIERINA MINE	Minera Barrick Misquichilca - Unidad Pierina
BV ADL	Amdel Laboratory - Adelaide	SGS LIMA	SGS del Peru SAC
GEN ADEL	Genalysis Laboratory Services - Adelaide	Philippines	
Tasmania		ITS MCPHAR	McPhar Geoservices Inc
ALSM BURNIE	Burnie Research Laboratory	Romania	
Argentina		ALSM ROMANIA	ALS Romania
VELADERO MINE	Veladero Project Assay Lab	Russia	
ASA MENDOZA	Alex Stewart Assayers Argentina SA - Mendoza	ALSM CHITA	ALS Minerals - Chita
ASA PERITO MORENO	Alex Stewart Assayers Argentina SA - Perito Moreno	ALSM MOSCOW	Stewart Geochemical and Assay Ltd
Armenia		IRGIREDMET RUSSIA	IRGIREDMET JSC
DENO ARMENIA	Deno Gold Mining Company	MNV RUSSIA	MNV - Mnogovershinnoye
Botswana		SGS CHITA	SGS Chita
BCL BOTSWANA	BCL Laboratory - Botswana	TOMS RUSSIA	TOMS-Irkutsk
MUPANE BOTS	Mupane Gold Project Lab	VSEGEI RUSSIA	VSEGEI All-Russia Geological research Institute
Brazil		Saudi Arabia	
SGS LF BELO HOR	SGS Geosol Laboratorios Ltda	ALAMRI JEDDAH	Al Amri Laboratory
Bulgaria		ALSM JEDDAH	ALS Minerals - Arabia
CHELOPECH MINE	Chelopech Mine Laboratory	Senegal	
Burkina Faso		SGS SABODALA	SGS Sabodala
ALSM OUAGADOUGOU	Abilab Burkina SARM	Serbia	
SEMAFO	Semafo Burkina Baso	SGS BOR	SGS Bor
SGS OUAGADOUGOU	SGS Burkina SA	South Africa	
Canada		ALSM JOBURG	ALS Minerals - Johannesburg
ACCURASSAY	Accurassay Laboratories	AR BMP	Anglo Research, Crown Mines - BMP
ACME VAN	Acme Analytical Laboratories Ltd - Vancouver	AR JOBURG	Anglo Research, Crown Mines - AS
ACTLABS CAN	Activation Laboratories Ltd (Canada)	GOLD FIELDS CHARL	Gold Fields West Wits Analytical Laboratories
ACTLABS TB	Activation Laboratories Ltd - Thunder Bay	INSPECTORATE RSA	Inspectorate Services Rustenburg
AGAT ONTARIO	AGAT Laboratories	MINTEK SA	Mintek Analytical Services Division
ALSM QUEBEC	ALS Minerals (Val d'Or)	PERF BARBERTON	Performance Laboratories Barberton
ALSM VAN	ALS Minerals - Vancouver	PERF PLR	Performance Laboratories (PLR)
BARRICK VAN	Barrick Technology Centre	PERF PLW	Performance Laboratories (PLW)
BEQUEREL-NAA	Bequerel Laboratories Inc	RAPPA RESEARCH	Rappa Research Laboratory
BOURLAMAQUE	Bourlamaque Assay Laboratories Ltd	SCI SER	Scientific Services Pty Ltd
FLIN FLON MINE	Flin Flon Mine Laboratory	SET POINT SA	Set Point Laboratories
HEMLO MINE	Williams Operating Corporation	SGS JOBURG	SGS South Africa Booyens
INSPECTORATE VAN	Inspectorate Services Vancouver	Spain	
MUSSELWHITE	Musselwhite Mine Laboratory	KINBAURI	Kinbauri España S.L.U.
SGS COCHRANE	SGS Cochrane	Suriname	
SGS LAKEFIELD	SGS Lakefield (Ontario)	FILAB SURINAME	Filab Suriname
SGS TORONTO	SGS Minerals Services (Toronto)	Tanzania	
SGS VANCOUVER	SGS Vancouver	BULYANHULLU TANZ	Bulyanhulu Mine Assay Lab
TSL SASKATCHEWAN	TSL Laboratories	GEITA TANZ	Geita Gold Mine Laboratory
Chile		SGS GOLDEN PRIDE	Golden Pride Mine Site Lab
ACME CHILE	Acme Analytical Laboratories Chile SA	SGS MWANZA	African Assay Laboratories (Tanzania) Ltd
ALSM CHINA	ALS Minerals - Guangzhou (China)	TULAWAKA TANZ	Tulawaka Mine Assay Lab
ALSM LASERENA	ALS Minerals - Chile	Thailand	
BV CESMEC	Bureau Veritas Mining & Chemical Division - Cesme	CHATREE THAI	Chatree Gold Mine Laboratory
BV GEONALITICA	Bureau Veritas Mineral Chemical Analysis - Geonalitica	Turkey	
ITS BELUNG	Intertek Testing Services, Ltd, Shanghai - Beijing Branch	ACME TURKEY	Acme Analytical Laboratories Ltd - Turkey
VIGALAB CHILE	Vigalab SA	ALSM TURKEY	ALS Minerals - Turkey
Cote d'Ivoire		ANAGOLD TURK	Anatolia Minerals Ltd
BV COTE	Bureau Veritas Mineral Laboratories Cote d'Ivoire	KOZAGOLD KAYMAZ	Koza Gold Mine Kaymaz Laboratory
Dominican Republic		KOZAGOLD TURKEY	Koza Gold Mine Laboratory
PUEBLO VIEJO	Pueblo Viejo Laboratorio	TUPRAG TURK	Tuprag Kisladag Gold Mine
Democratic Republic of Congo		Uruguay	
SGS DIKULUSHI	Mawson West - Anvil Mining Congo	OMI URUGUAY	Triselco SA Laboratory
SGS KINSEVERE	AMCK Mining SPRL	USA	
SGS TWANGIZA	SGS Twangiza	AALLABS	American Assay Laboratories
England		ACME ALASKA	Acme Analytical Laboratories Ltd - Alaska
WHEAL JANE ENGLAND	Wheal Jane Laboratory	ALSM RENO	ALS Minerals - Reno
Eritrea		BALD MOUNT	Bald Mountain Mine Assay Lab
SGS BISHA	SGS Bisha	CORTEZ MINE	Cortez JV Mine Assay Lab
Ethiopia		FLORIN RENO	Florin Analytical Services
MIDROC LEGADEMBI	Midroc Gold Mine PLC - Legadembi	GOLD SUNLIGHT MINE	Golden Sunlight Mine Assay Lab
Finland		GOLDSTRIKE	Barrick Analytical Laboratory
LABTIUM FIN	Labtium Laboratories	INSPECTORATE NEV	Inspectorate Services Sparks
Ghana		MARIGOLD MINES	Marigold Mining Company - Assay Lab
AG GHANA ASSA	AngloGold Ashanti - Assay Lab	MCCLELLAND NEV	McClelland Laboratories, Inc.
AG GHANA CHEM	AngloGold Ashanti - Chemical Lab	NEW GC	Newmont Mining Corporation - Carlin Assay Lab
ALSM GHANA	ALS Minerals - Ghana	NEW LONE	Newmont - Lone Tree Mine
GOLD FIELDS GHANA	Gold Fields Ghana Ltd	NEW MET SER	Newmont Metallurgical Services
ITS GHANA	Intertek Minerals Ltd (Ghana)	NEW TWIN CM	Newmont - Twin Creek Mine
NEW AHAFO GHANA	Ahafo Mine Site Laboratory	ROUND MOUNT MINE	Round Mountain Gold Assay Lab
SGS TARKWA	SGS Laboratories (Tarkwa)	SKYLINE ARIZONA	Skyline Assayers & Laboratories - Arizona
Guatemala		TURQ RIDGE MINE	Turquoise Ridge JV Mine Assay Lab
GC GUATEMALA	Marlin Mine	Zambia	
India		ALSM KANSANSHI	ALS Minerals - Kansanshi
SHIVA INDIA	Shiva Analyticals (India) Ltd	SGS KALULUSHI	SGS Inspection Services Zambia
Indonesia		Zimbabwe	
GEOSERVICES IND	PT Geoservices Ltd	ANTECH	Antech Laboratories
ITS INDO	Intertek Testing Services, Jakarta	PERF ZIMBABWE	Performance Laboratories Zimbabwe
ITS MATARAM	ITS Lab - PT Newmont Nusa Tenggara	Commercial Laboratory	
ITS UTAMA	Intertek Utama Services	Minesite Laboratory	
SGS JAKARTA	SGS Indo Assay Laboratories	Government Laboratory	
SUCOFINDO INDO	Sucofindo Timika Laboratory		
WAY LINGGO	PT Geoservices Ltd - Way Linggo		
Iran			
ZARAZMA	Zarazma Minerals Studies Company		

REPORT ON LABORATORY SURVEY – October 2012

A round robin to measure the accuracy of gold, silver, sulphur and base metal analyses from 199 laboratories was conducted during October 2012. 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 Steven Simpson at 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 11.6% and carbon values up to 2.9%.

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

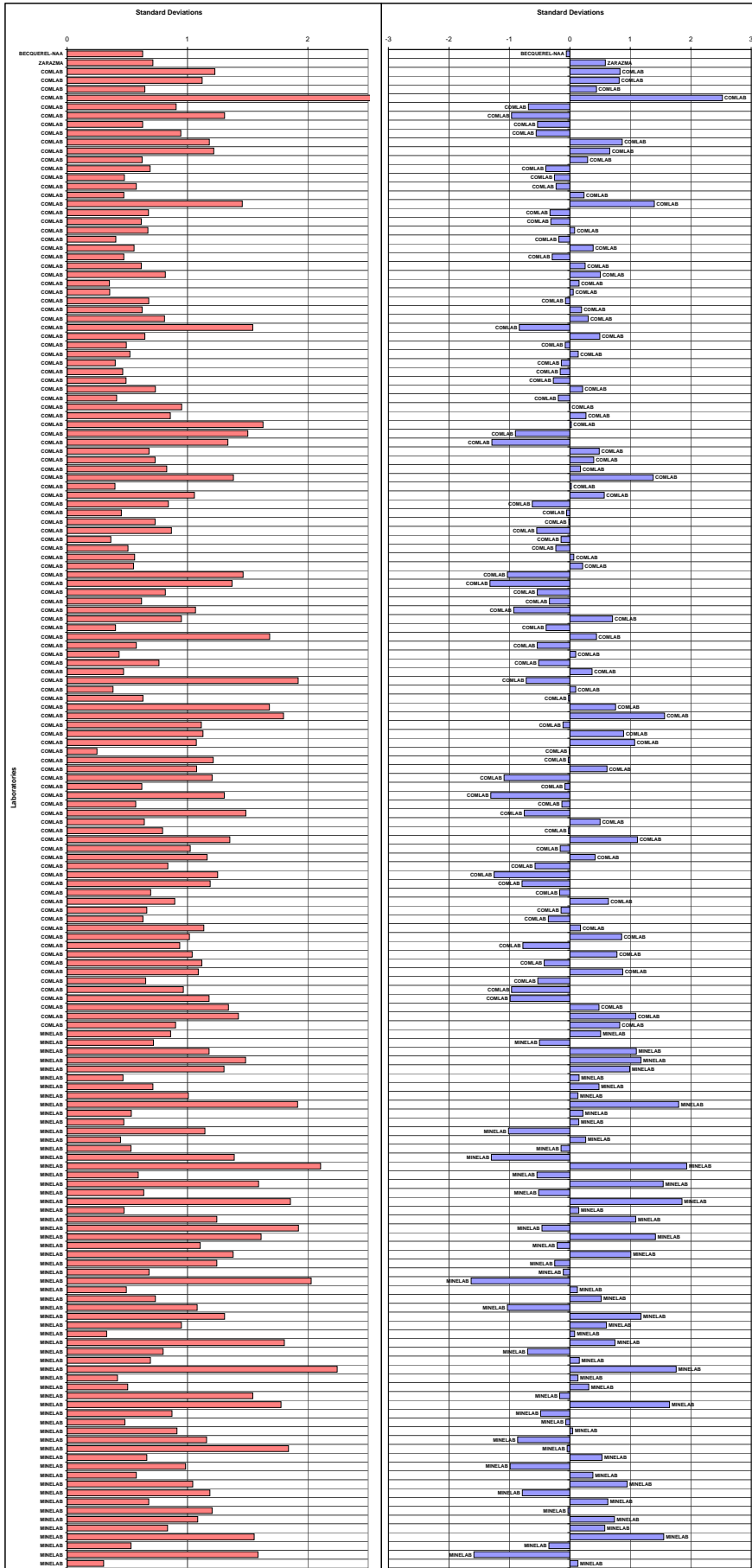
READINGS

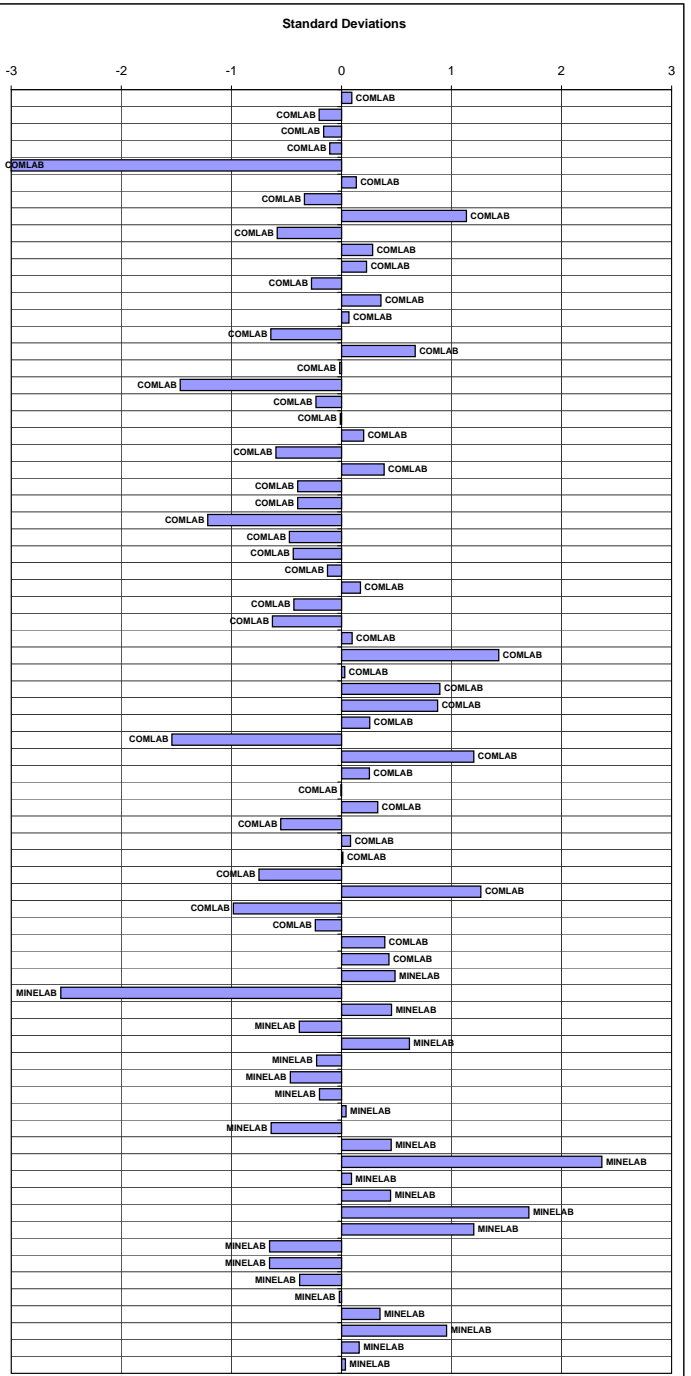
1A	1 Acid Digest	AAS	Atomic Absorption Spectroscopy
2A	2 Acid Digest	DIBK	DIBK Extraction
3A	3 Acid Digest	ES	ICP - Emission Spectroscopy
4A	4 Acid Digest	GRAV	Gravimetric
AD	Acid Digest	ICP	Inductively Coupled Plasma - Unspecified
AR	Aqua Regia	IR	Infrared
CSA	Carbon and Sulphur Analyser	MIBK	MIBK Extraction
FA	Fire Assay	MS	ICP - Mass Spectroscopy
FUS	Fusion	TITR	Titration
GF	Graphite Furnace	XRF	X-Ray Fluorescence
GRAV	Gravimetric		
IH	In House Method		
MAD	Multi-Acid Digest		
NAA	Neutron Activation Analysis		
PP	Pressed Powder		
PR	Pre-Roast		
VOL	Volumetric		

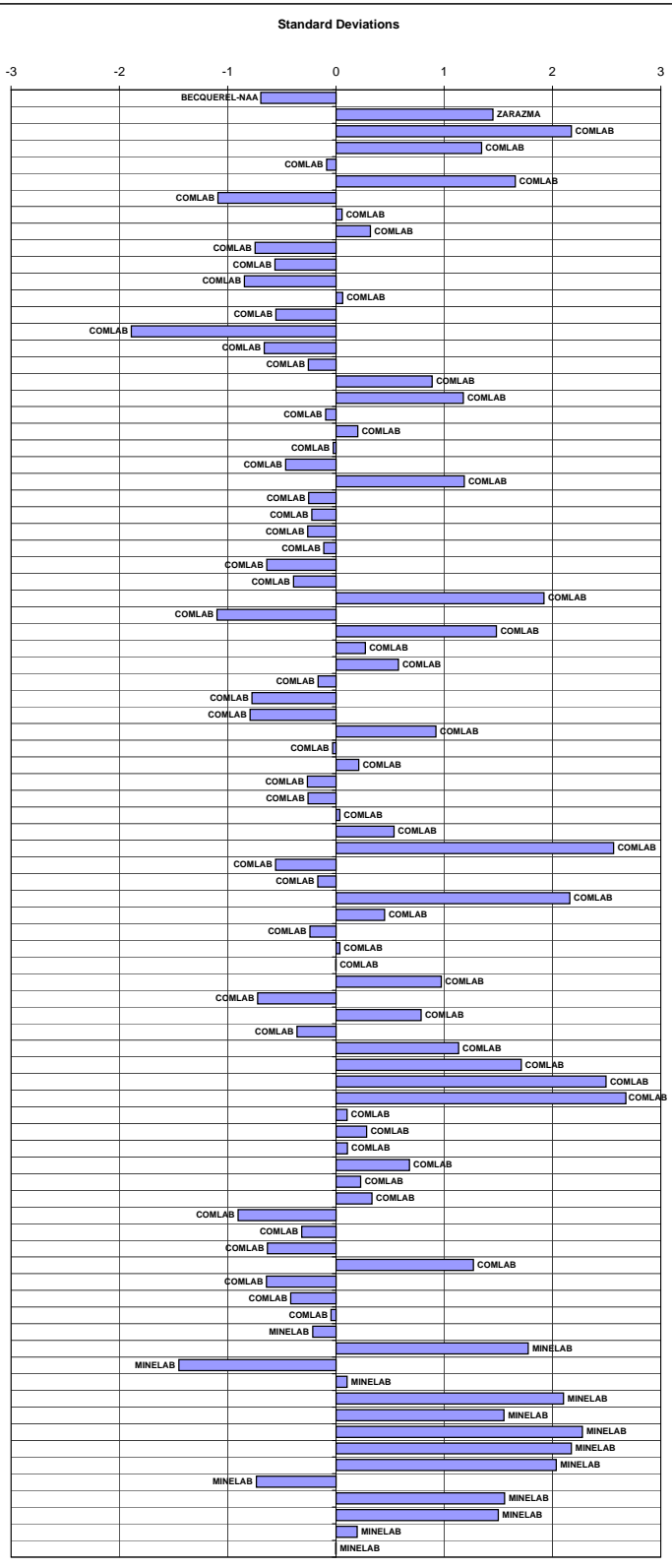
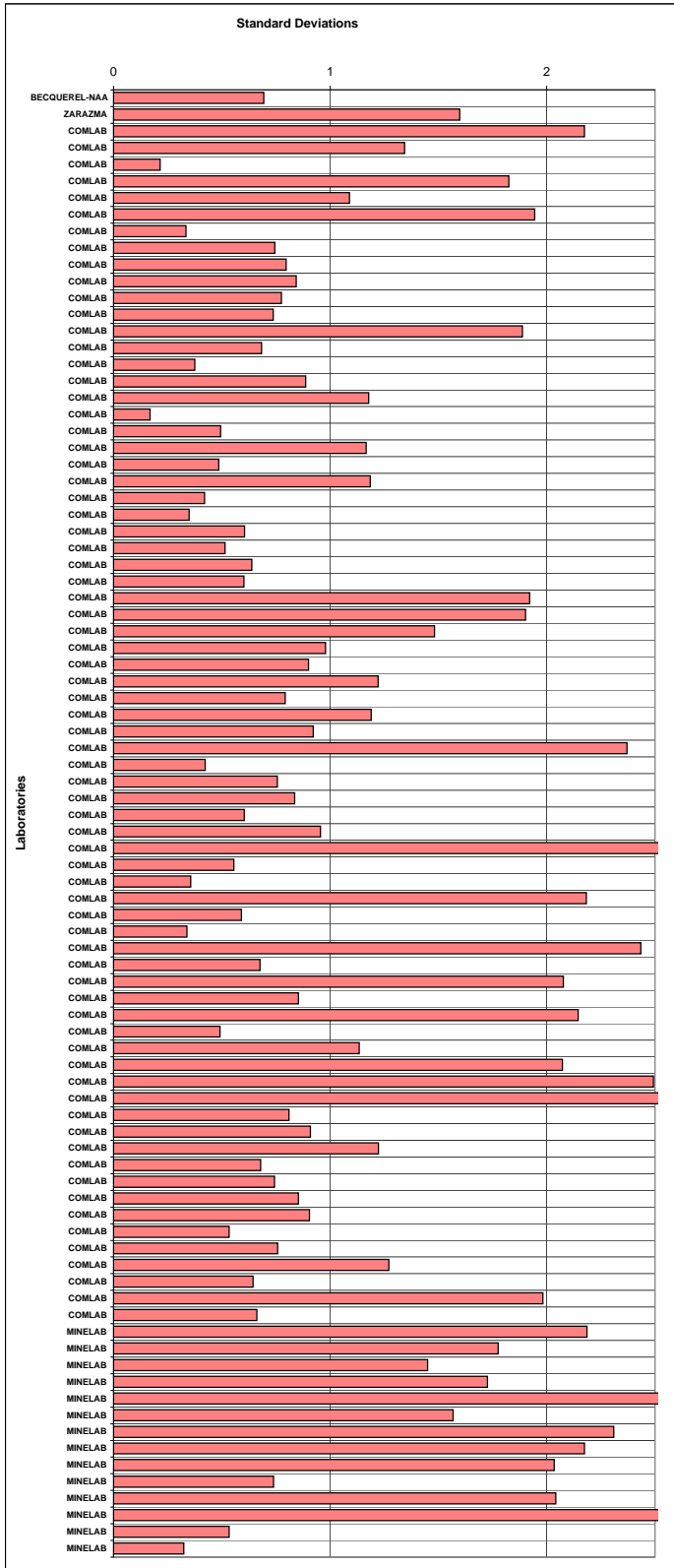
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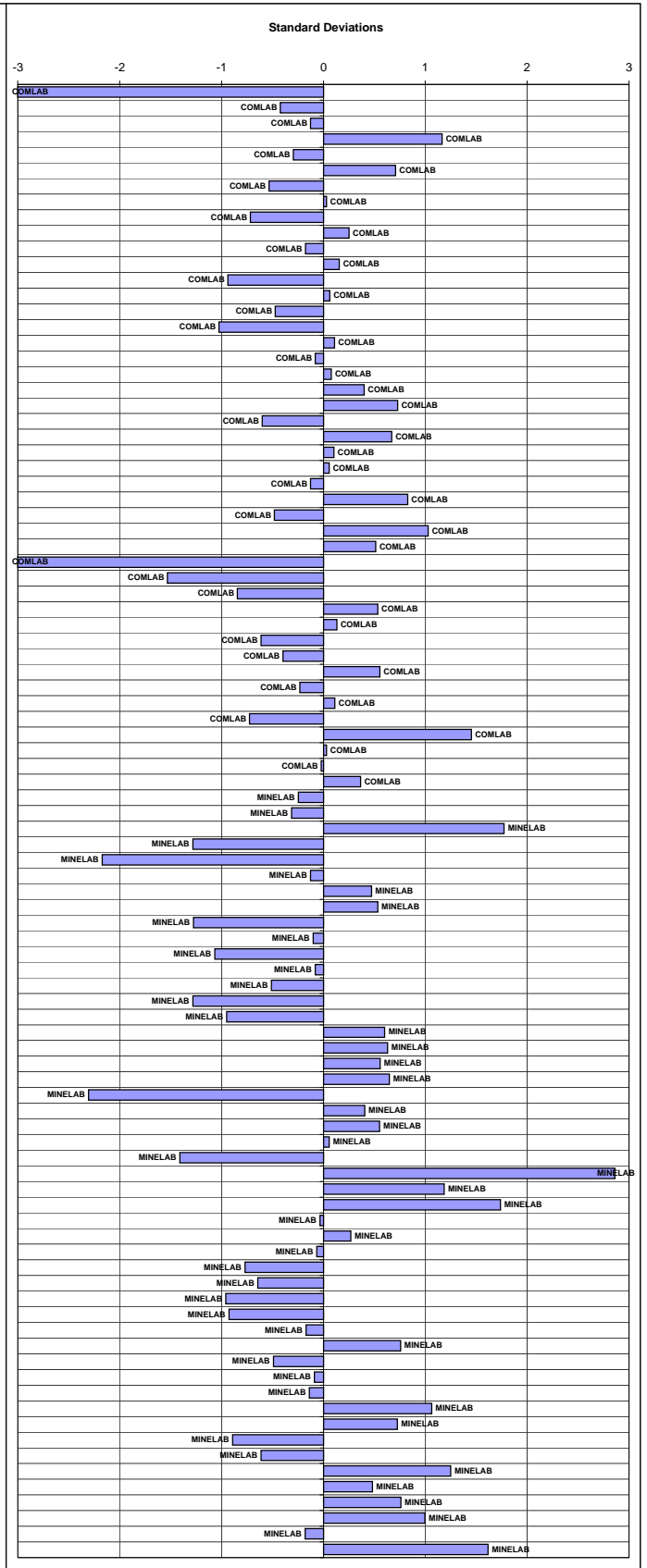
RESULTS OF ANALYSES PRESENTED AS TABLES AND PLOTS

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)
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	24	Mean of Positive Standardised Values (General Error)
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	26	Mean of Positive Standardised Values (General Error)
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		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
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		Mean of Standardised Values (General Bias)
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		Mean of Standardised Values (General Bias)
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	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)







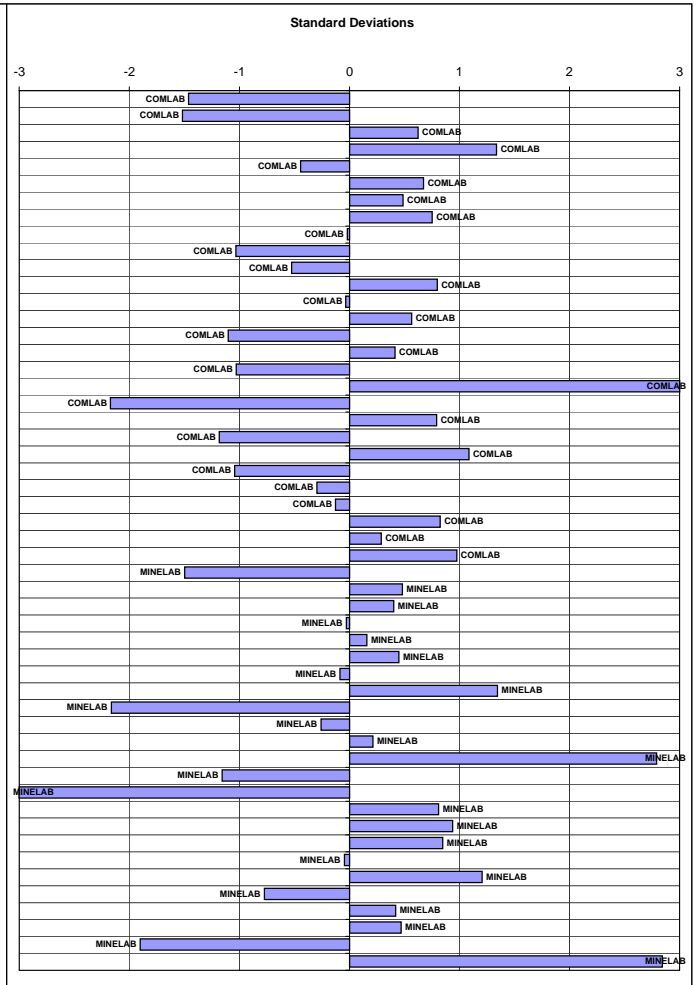


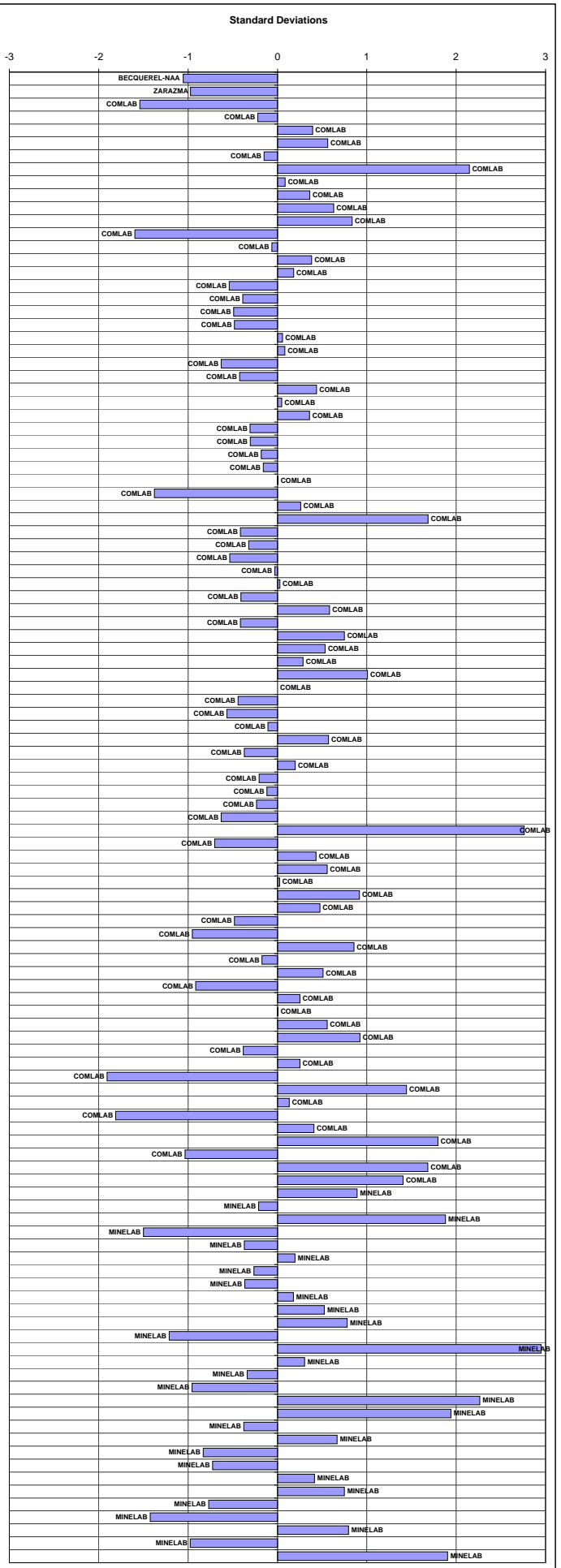
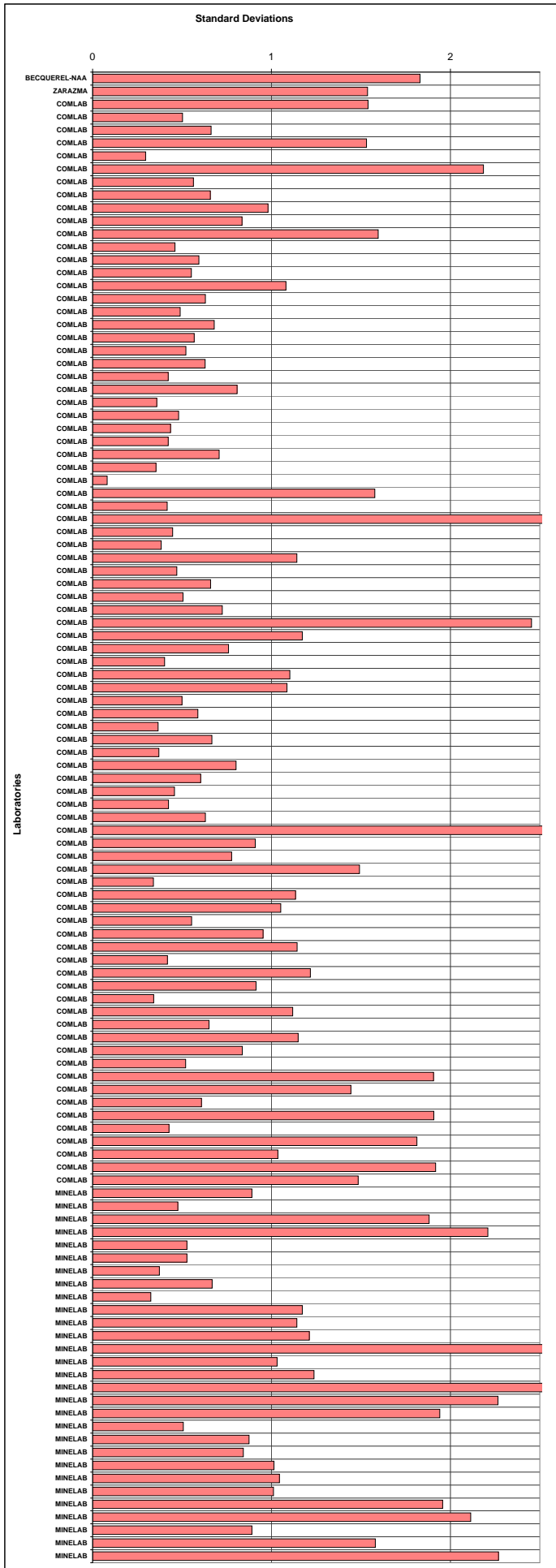
Silver on Carbon Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - October 2012

Standard Reference	GLC912-4	GBC912-2	GBC912-3	GLC912-1	GLC912-2	GLC912-3
MEAN (ppm)	619	528	662	1329	806	2102
STDEV (ppm)	85	49	86	89	93	163
95% CI (ppm)	24	15	25	27	27	50
95% CI (%)	3.94%	2.80%	3.72%	2.02%	3.39%	2.37%
MIN (ppm)	395	404	480	1131	570	1736
MEDIAN (ppm)	627	534	679	1323	833	2095
MAX (ppm)	823	616	843	1535	1022	2485
IQR (ppm)	91	58	94	74	84	183
COUNT	48	43	48	43	45	42

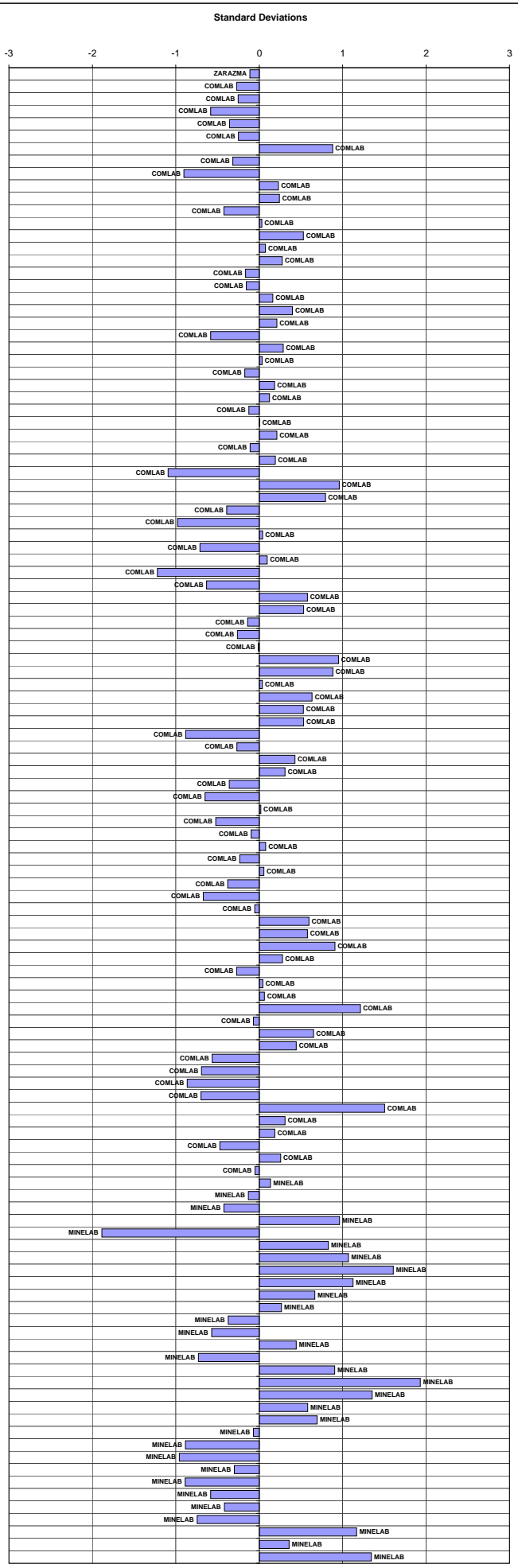
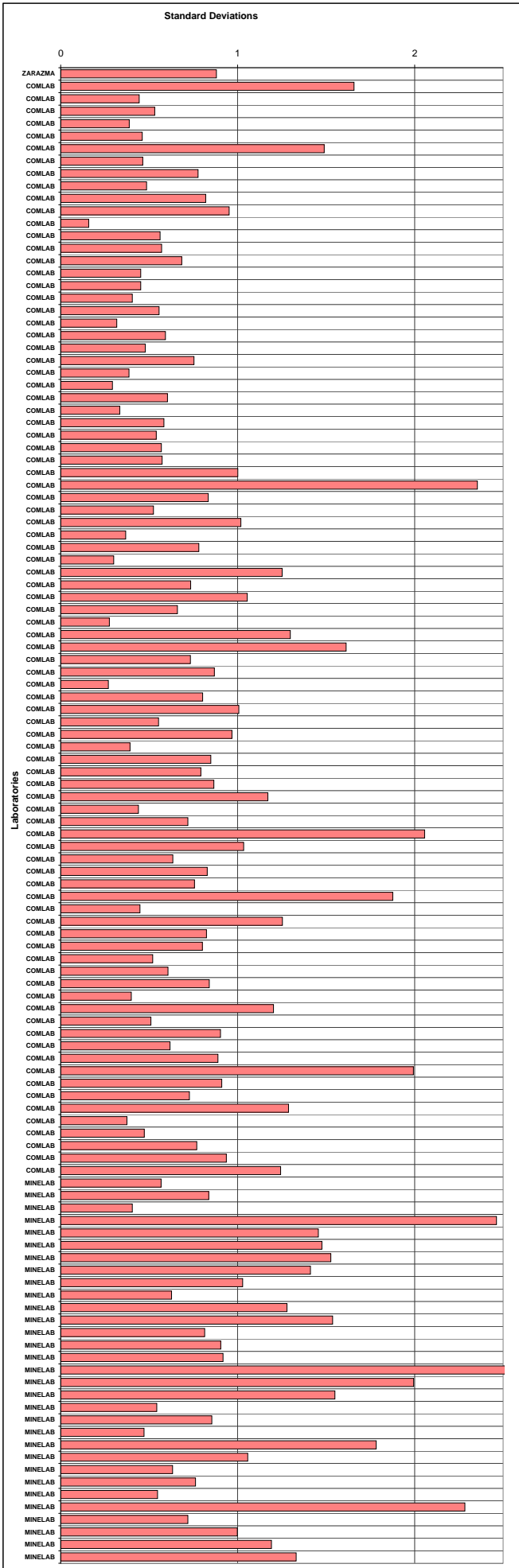
Standard Reference	GLC912-4		GBC912-2		GBC912-3		GLC912-1		GLC912-2		GLC912-3		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
COMLAB	492	-1.49	458	-1.44	557	-1.22	1308	-0.24	678	-1.38	1468	-3.00	FA	GRAV
COMLAB	470	-1.74	404	-2.54	546	-1.35	1160	-1.90	720	-0.93	2000	-0.63	FA	GRAV
COMLAB	653	0.40	559	0.63	697	0.40	1380	0.57	853	0.51	2300	1.21	PR,AR	AAS
COMLAB	637	0.22	585	1.16	746	0.97	1535	2.32	1415	3.00	2160	0.35	PR,AR	AAS
COMLAB	598	-0.24	509	-0.39	635	-0.32	1261	-0.77	770	-0.38	2012	-0.55	FA	AAS
COMLAB	663	0.52	577	1.00	710	0.55	1415	0.97	835	0.32	nr	nr	FA	GRAV
COMLAB	633	0.17	540	0.24	698	0.41	1368	0.43	850	0.47	2296	1.19	FA	GRAV
COMLAB	667	0.57	538	0.19	657	-0.06	1821	3.00	837	0.33	2181	0.49	1A	AAS
COMLAB	620	0.02	530	0.04	680	0.21	1360	0.35	820	0.16	1960	-0.87	FA,3A	AAS
COMLAB	444	-2.05	350	-3.00	464	-2.07	1518	2.13	972	1.80	1157	-3.00	FA	GRAV
COMLAB	576	-0.50	500	-0.58	684	0.08	1271	-0.65	790	-0.17	1885	-1.33	FA	GRAV
COMLAB	722	1.21	534	0.12	713	0.59	1425	1.08	896	0.98	2235	0.81	FA	GRAV
COMLAB	596	-0.27	536	0.17	711	0.57	1203	-1.42	834	0.30	2175	0.45	PR,AR	DIBK
COMLAB	655	0.43	531	0.06	706	0.51	1410	0.91	857	0.56	2255	0.94	FA,AR	ES
COMLAB	582	-0.43	493	-0.72	615	-0.55	1131	-2.23	676	-1.40	1893	-1.28	AR	AAS
COMLAB	607	-0.14	512	-0.33	617	-0.52	1340	0.12	838	0.35	2600	3.00	FA	GRAV
COMLAB	523	-1.12	478	-1.03	624	-0.44	1200	-1.45	724	-0.88	1900	-1.24	3A	MS
COMLAB	955	3.00	915	3.00	1092	3.00	1704	3.00	1266	3.00	2952	3.00	FA	GRAV
COMLAB	395	-2.63	461	-1.37	517	-1.68	876	-3.00	611	-2.10	1736	-2.25	FA,AR	ES,GRAV
COMLAB	665	0.55	557	0.59	728	0.76	1407	0.88	876	0.76	2301	1.22	FA	GRAV
COMLAB	515	-1.22	455	-1.50	565	-1.13	1210	-1.34	710	-1.03	1960	-0.87	AR	AAS
COMLAB	673	0.64	680	3.00	566	-1.12	1450	1.36	915	1.18	2340	1.46	PR,AR	AAS
COMLAB	580	-0.45	550	0.45	503	-1.85	1280	-0.55	644	-1.75	1760	-2.10	AR	AAS
COMLAB	567	-0.61	497	-0.64	631	-0.36	1318	-0.13	807	0.01	2093	-0.06	FA	GRAV
COMLAB	602	-0.20	521	-0.15	658	-0.05	1318	-0.13	772	-0.36	2122	0.12	PR	AAS
COMLAB	731	1.32	602	1.51	681	0.22	1360	0.35	843	0.40	2290	1.15	FA	GRAV
COMLAB	616	-0.03	540	0.24	740	0.90	1323	-0.07	844	0.41	2147	0.27	PR,FUS	MS,ES
COMLAB	705	1.01	616	1.80	772	1.27	1380	0.57	877	0.77	2170	0.42	PR,AR	AAS
MINELAB	521	-1.15	486	-0.86	323	-3.00	1260	-0.78	222	-3.00	2070	-0.20	FA	AAS
MINELAB	664	0.53	555	0.55	701	0.45	1365	0.40	832	0.29	2210	0.66	PR,AR	AAS
MINELAB	653	0.40	549	0.43	693	0.36	1349	0.22	846	0.44	2195	0.57	FA	GRAV
MINELAB	663	0.52	508	-0.40	685	0.26	1312	-0.20	818	0.14	2024	-0.48	FA	GRAV
MINELAB	658	0.46	549	0.43	704	0.48	1313	-0.18	837	0.34	2008	-0.58	FA	GRAV
MINELAB	681	0.73	596	1.40	751	1.03	1312	-0.20	833	0.29	2012	-0.56	FA	GRAV
MINELAB	620	0.02	510	-0.37	662	0.00	1306	-0.26	844	0.41	2051	-0.31	AR	AAS
MINELAB	708	1.05	577	1.01	762	1.16	1480	1.70	916	1.20	2423	1.96	FA	GRAV
MINELAB	501	-1.38	418	-2.26	531	-1.52	1010	-3.00	638	-1.81	1607	-3.00	PP	XRF
MINELAB	592	-0.31	494	-0.70	677	0.17	1305	-0.27	811	0.06	2021	-0.50	AR	AAS
MINELAB	659	0.47	550	0.45	655	-0.08	1346	0.19	858	0.57	2051	-0.31	AR	AAS
MINELAB	823	2.40	777	3.00	982	3.00	1633	3.00	1143	3.00	2485	2.34	FA,AR	AAS
MINELAB	546	-0.85	481	-0.96	578	-0.98	1142	-2.11	681	-1.35	1989	-0.69	AR	AAS
MINELAB	190	-3.00	160	-3.00	267	-3.00	734	-3.00	330	-3.00	1427	-3.00	PR,AR	AAS
MINELAB	780	1.89	610	1.68	810	1.71	1340	0.12	740	-0.71	2130	0.17	AR	AAS
MINELAB	704	1.00	730	3.00	717	0.64	1366	0.42	887	0.88	2053	-0.30	FA	GRAV
MINELAB	245	-3.00	287	-3.00	843	2.09	2924	3.00	1214	3.00	8622	3.00	FA	GRAV
MINELAB	614	-0.05	525	-0.06	660	-0.03	1314	-0.17	813	0.08	2096	-0.04	FA	GRAV
MINELAB	664	0.53	563	0.71	683	0.24	1366	0.42	1022	2.34	3065	3.00	FA	GRAV
MINELAB	563	-0.65	500	-0.58	574	-1.02	1266	-0.71	769	-0.40	1894	-1.28	PR,AR	AAS
MINELAB	712	1.10	605	1.57	660	-0.03	1315	-0.16	832	0.29	2063	-0.24	AR	AAS
MINELAB	664	0.53	550	0.45	696	0.39	1365	0.40	858	0.57	2179	0.47	FA,AR	AAS
MINELAB	518	-1.18	370	-3.00	480	-2.11	952	-3.00	570	-2.55	2174	0.44	FA,AR	GRAV
MINELAB	892	3.00	793	3.00	840	2.06	2280	3.00	1360	3.00	2820	3.00		

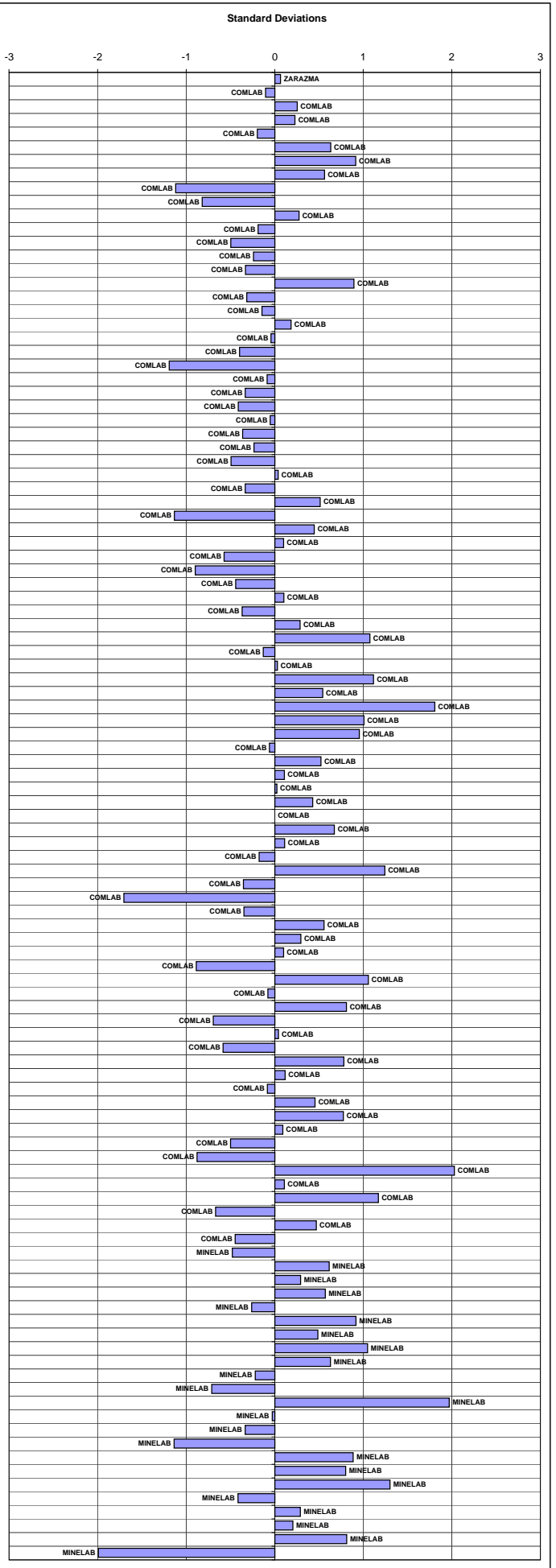
Highlighted values are outliers which are assigned a z-score of -3.00 or 3.00 in the standardised values.

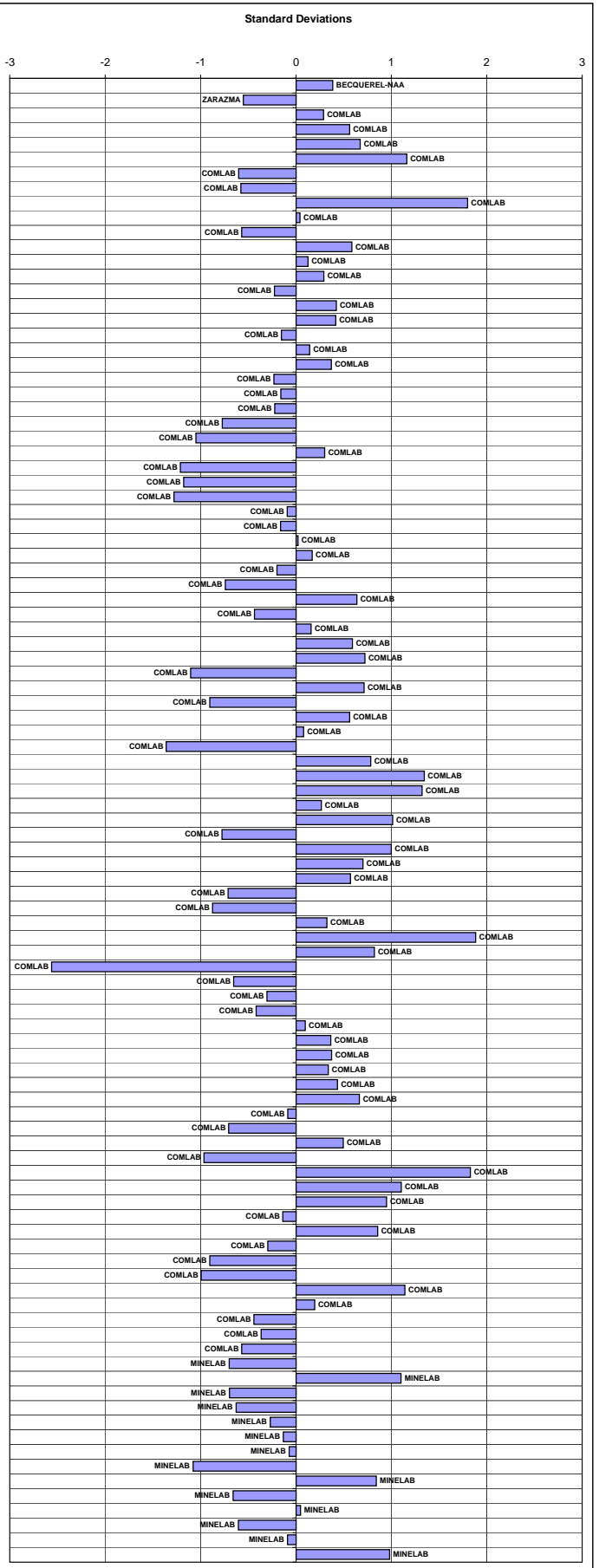
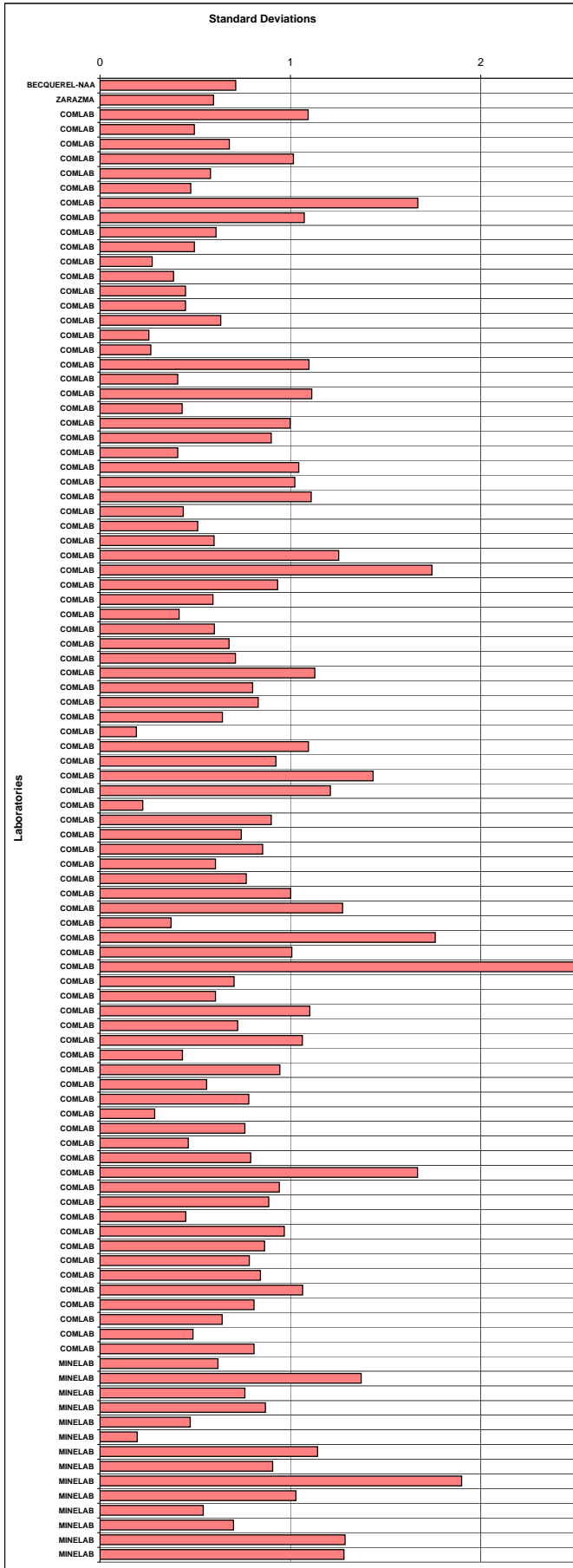




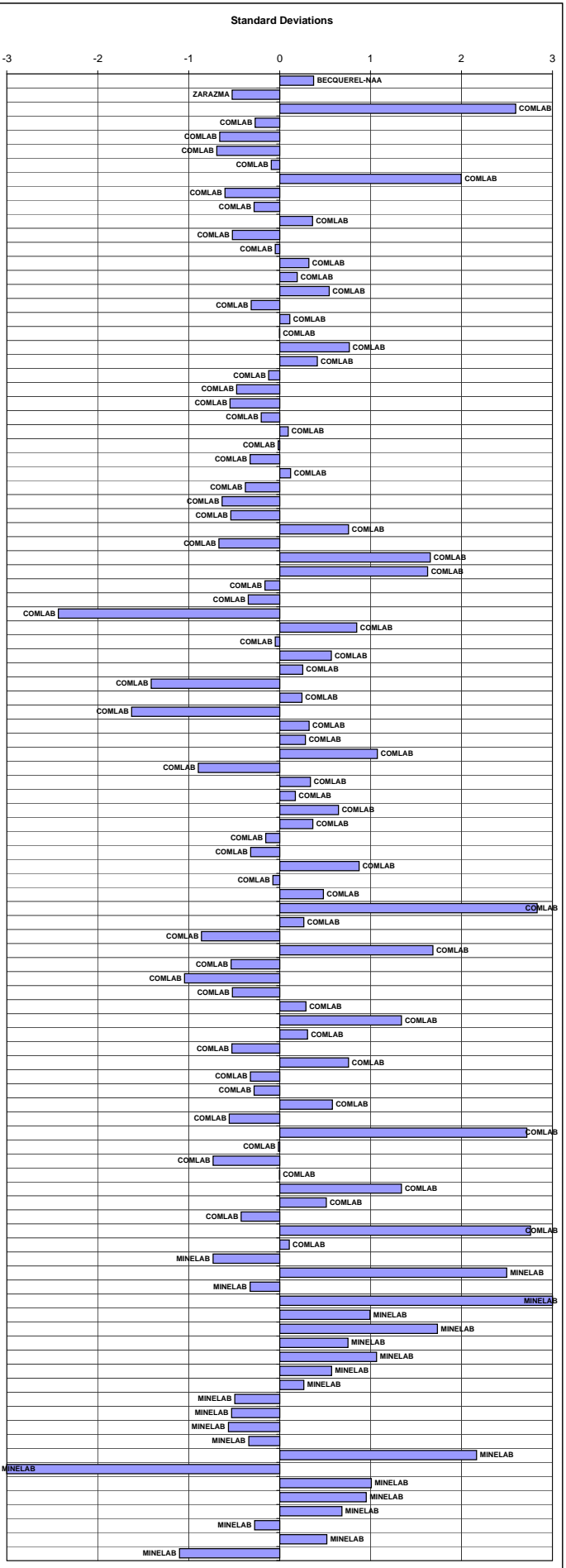
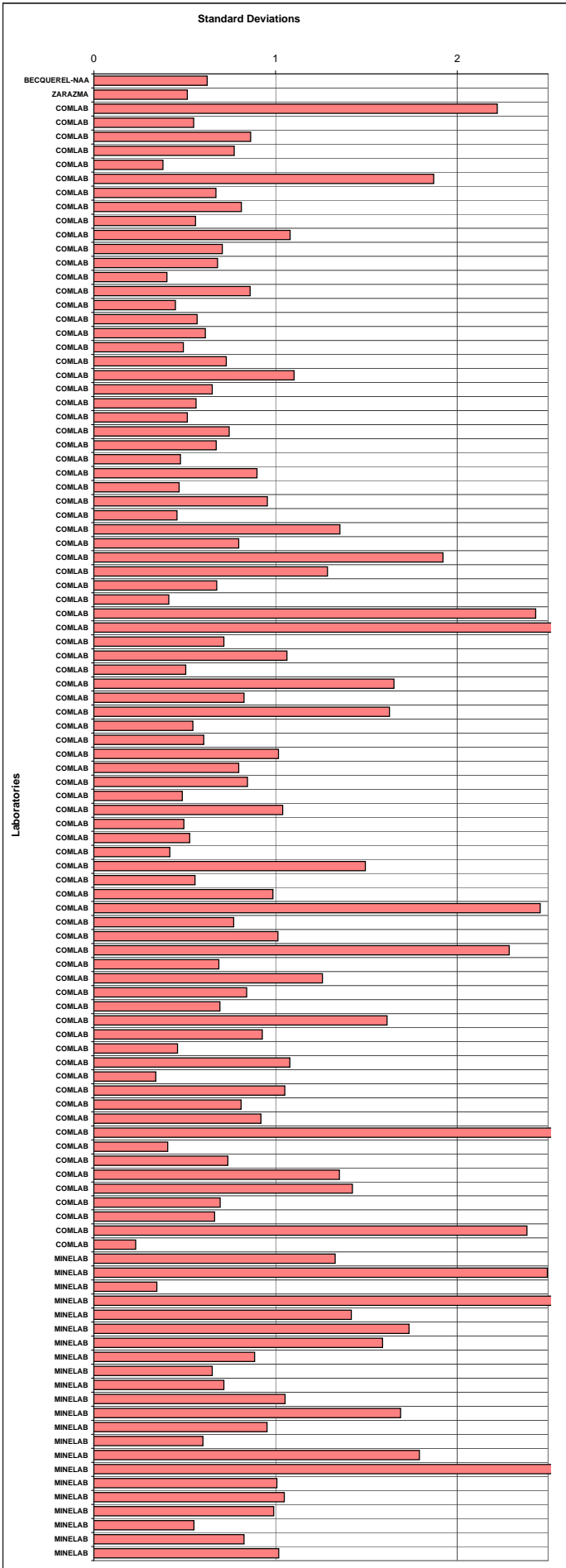
Laboratories







Laboratories



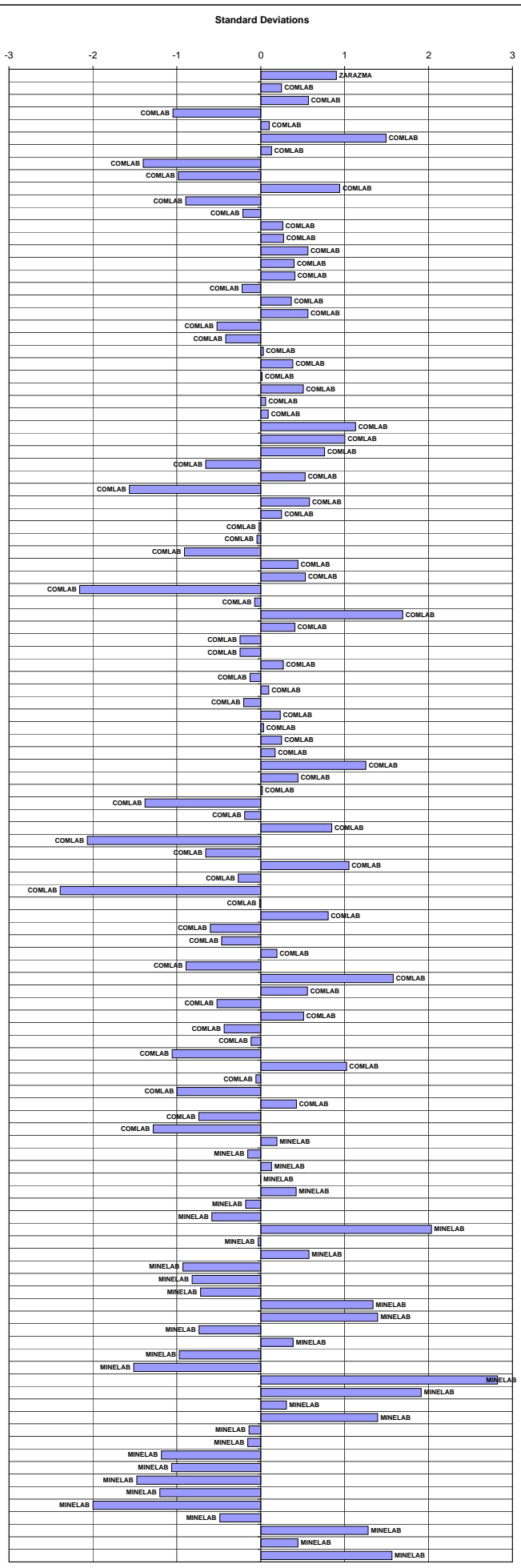
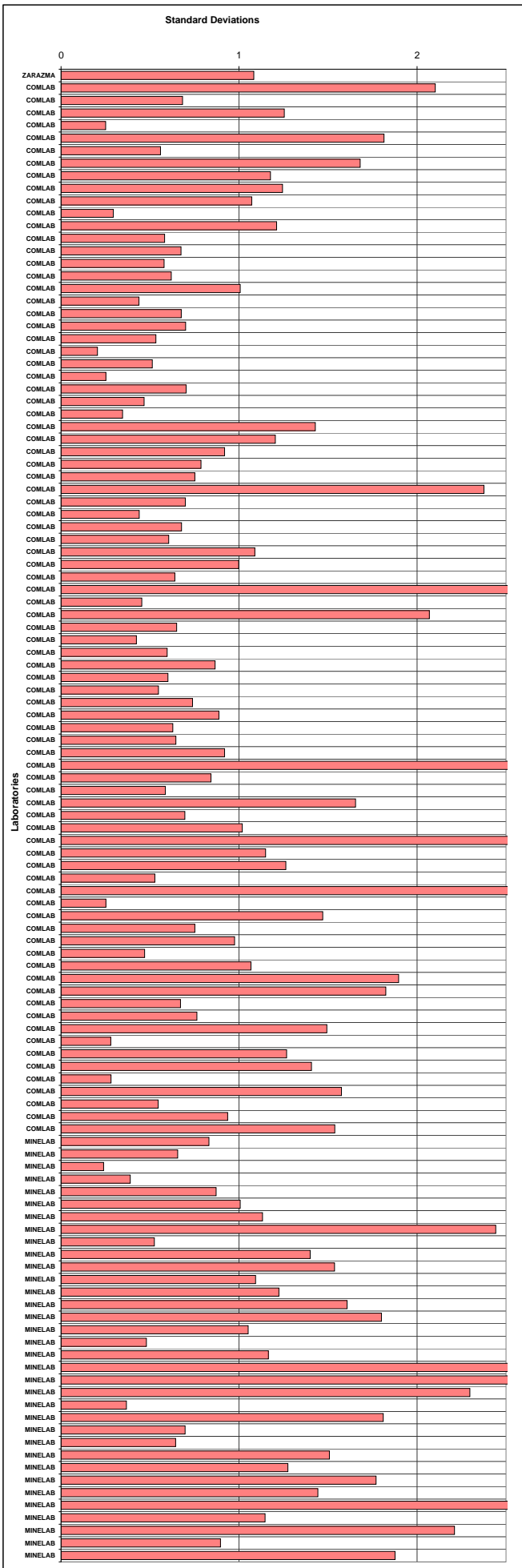
Laboratories

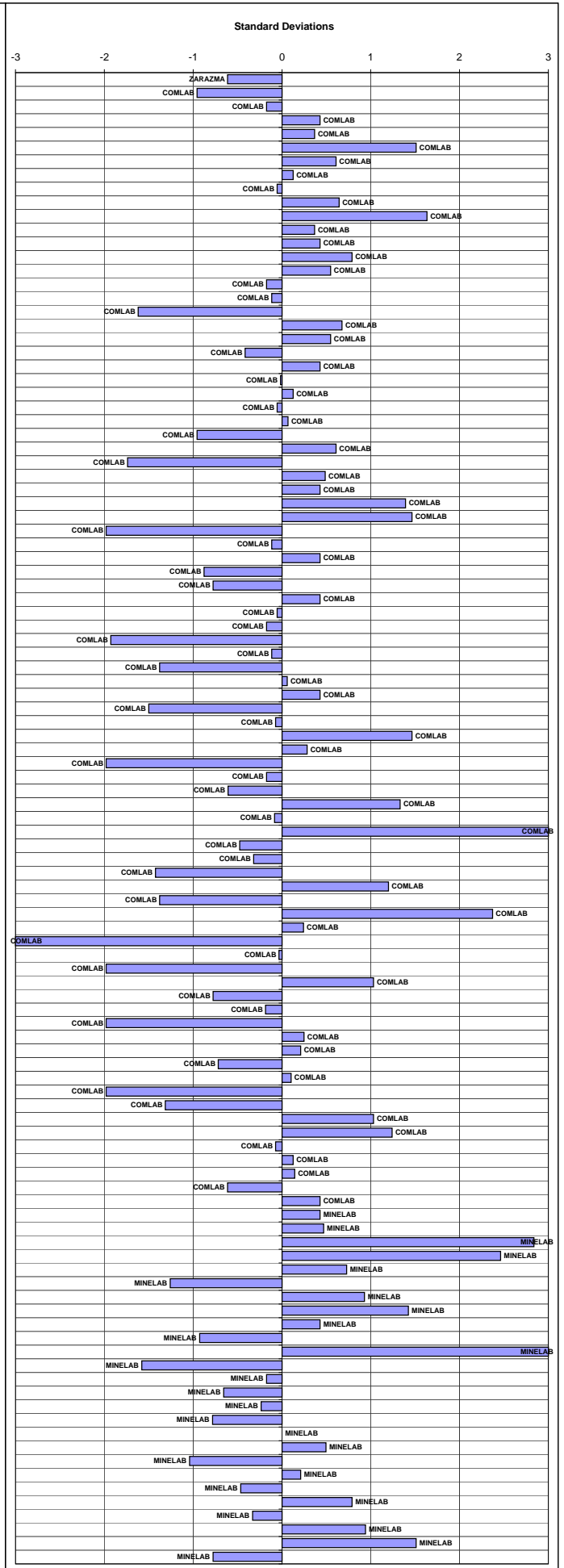
Cobalt Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - October 2012

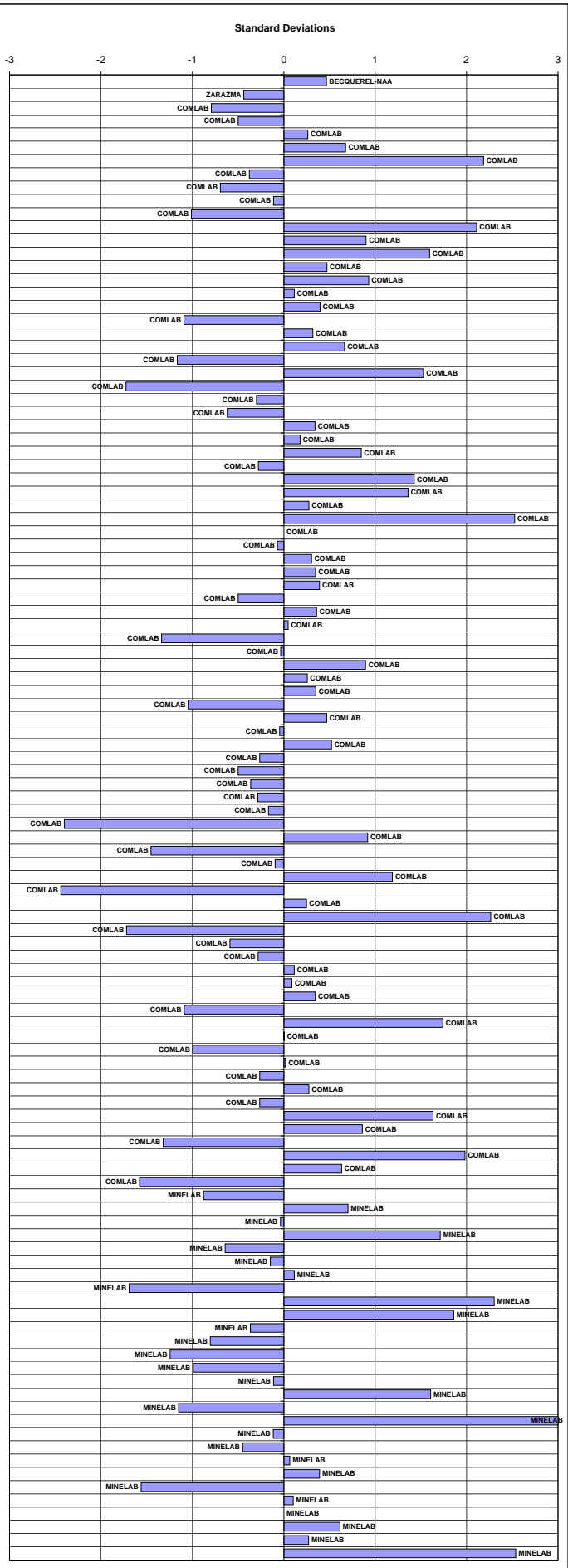
Standard Reference	GBM912-1	GBM912-2	GBM912-3	GBM912-4	GBM912-5	GBM912-6	GBM912-7	GBM912-8	GBM912-9	GBM912-10
MEAN (ppm)	28	32	8	26	18	18	36	23	250	2
STDEV (ppm)	7	4	2	13	6	6	7	6	19	0
95% CI (ppm)	1	1	0	3	1	1	1	1	4	0
95% CI (%)	4.69%	2.24%	5.04%	9.53%	6.73%	6.54%	3.56%	4.84%	1.48%	10.15%
MIN (ppm)	16	23	5	8	8	8	25	13	197	1
MEDIAN (ppm)	30	32	8	32	20	20	38	24	249	2
MAX (ppm)	41	40	13	56	32	30	48	35	288	2
IQR (ppm)	11	5	3	23	9	10	10	9	26	1
COUNT	97	97	90	96	96	96	99	97	100	31

Standard Reference Lab Reference	GBM912-1		GBM912-2		GBM912-3		GBM912-4		GBM912-5		GBM912-6		GBM912-7		GBM912-8		GBM912-9		GBM912-10		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		
	BECQUEREL-NAA	36	1.13	34	0.70	9	0.30	38	0.92	23	0.83	24	0.97	44	1.17	28	0.95	270	1.08	2		
ZARAZMA	19	-1.49	29	-0.69	6	-1.03	11	-1.27	10	-1.31	10	-1.39	27	-1.50	17	-1.12	230	-1.05	3	3.00	AR	ES

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 material. These results do not contribute to the error charts.





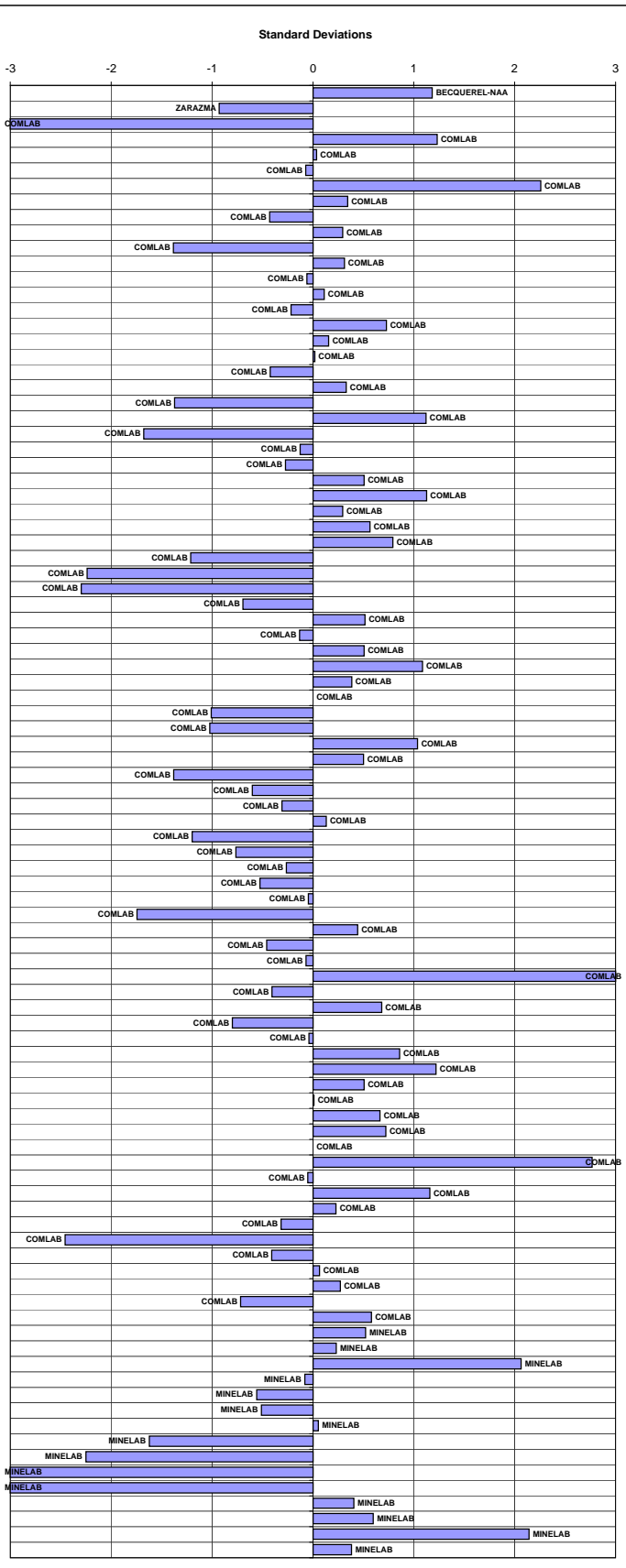
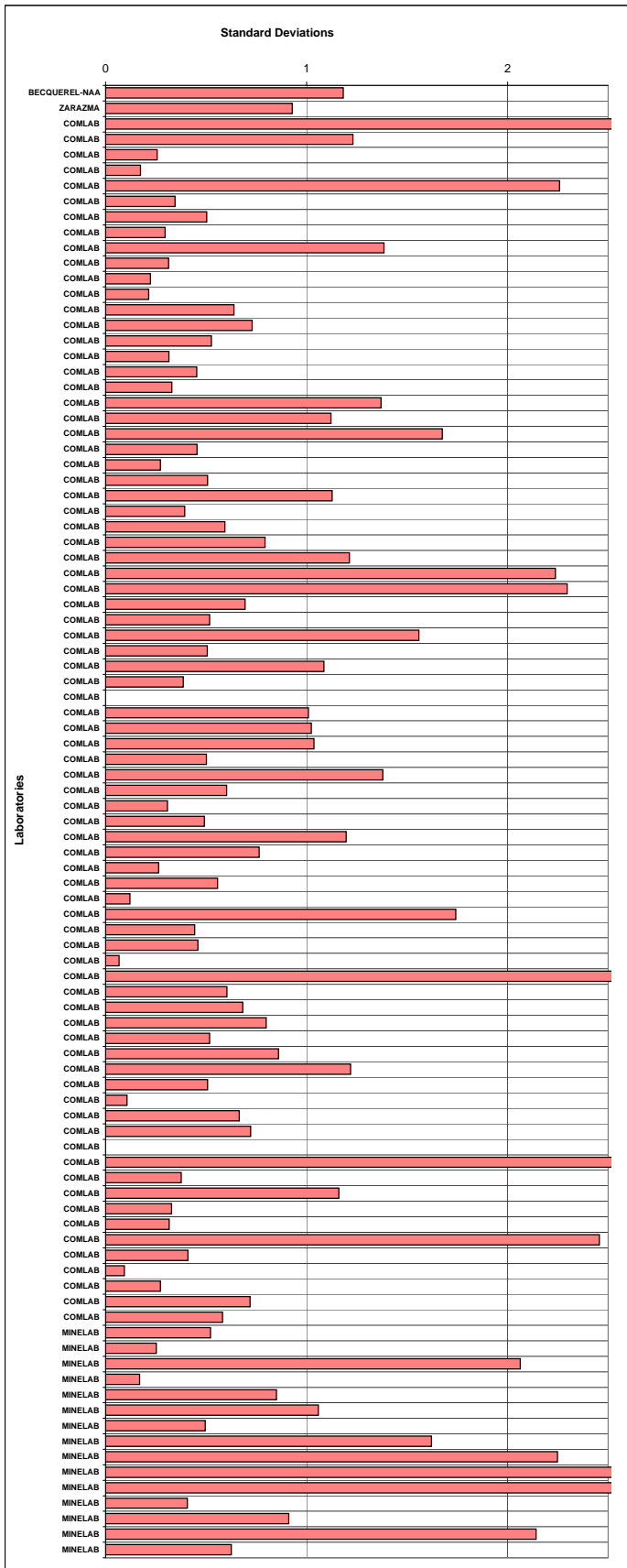


Laboratories

Ore Grade Nickel Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - October 2012

Standard Reference	GBM912-11	GBM912-12	GBM912-13	GBM912-14	GBM912-15	GBM912-16
MEAN (ppm)	42	27840	22670	673	38	37228
STDEV (ppm)	11	1032	881	28	11	1535
95% CI (ppm)	5	219	186	13	5	326
95% CI (%)	11.91%	0.79%	0.82%	1.91%	13.42%	0.88%
MIN (ppm)	30	25300	20200	610	20	33400
MEDIAN (ppm)	42	27880	22770	673	38	37300
MAX (ppm)	62	30555	24990	713	54	41134
IQR (ppm)	18	1105	967	36	15	1875
COUNT	19	86	87	19	19	86

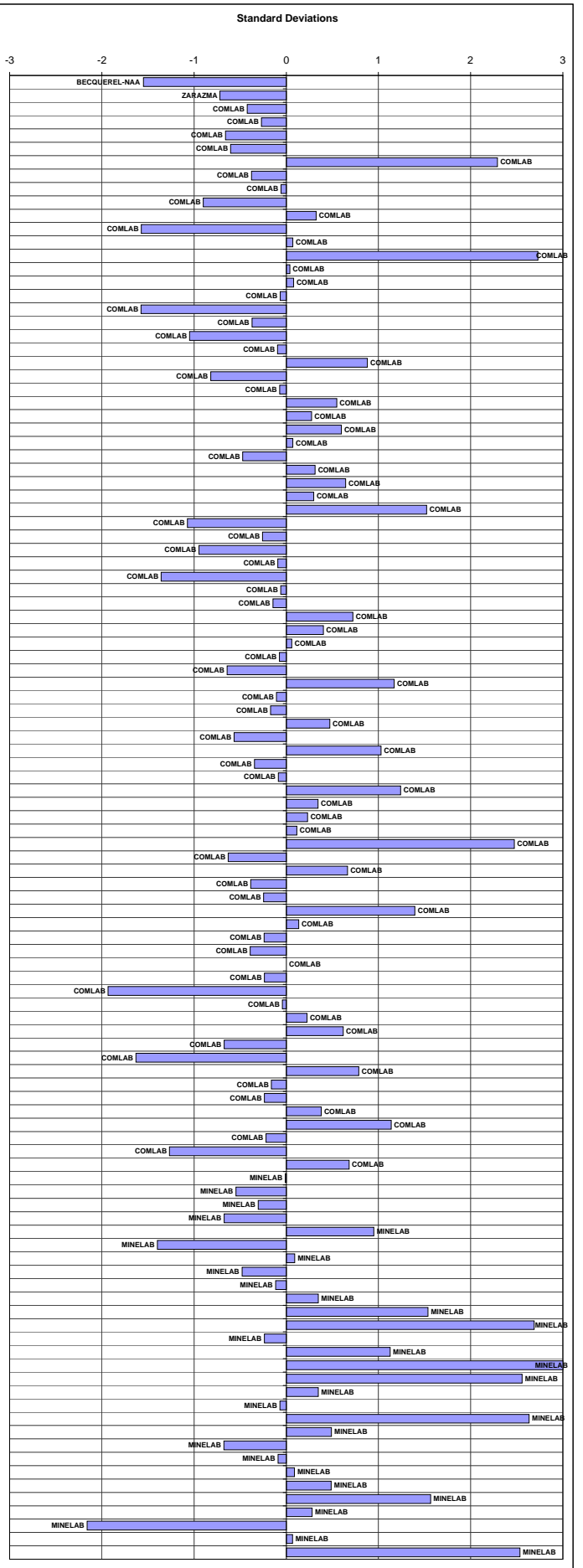
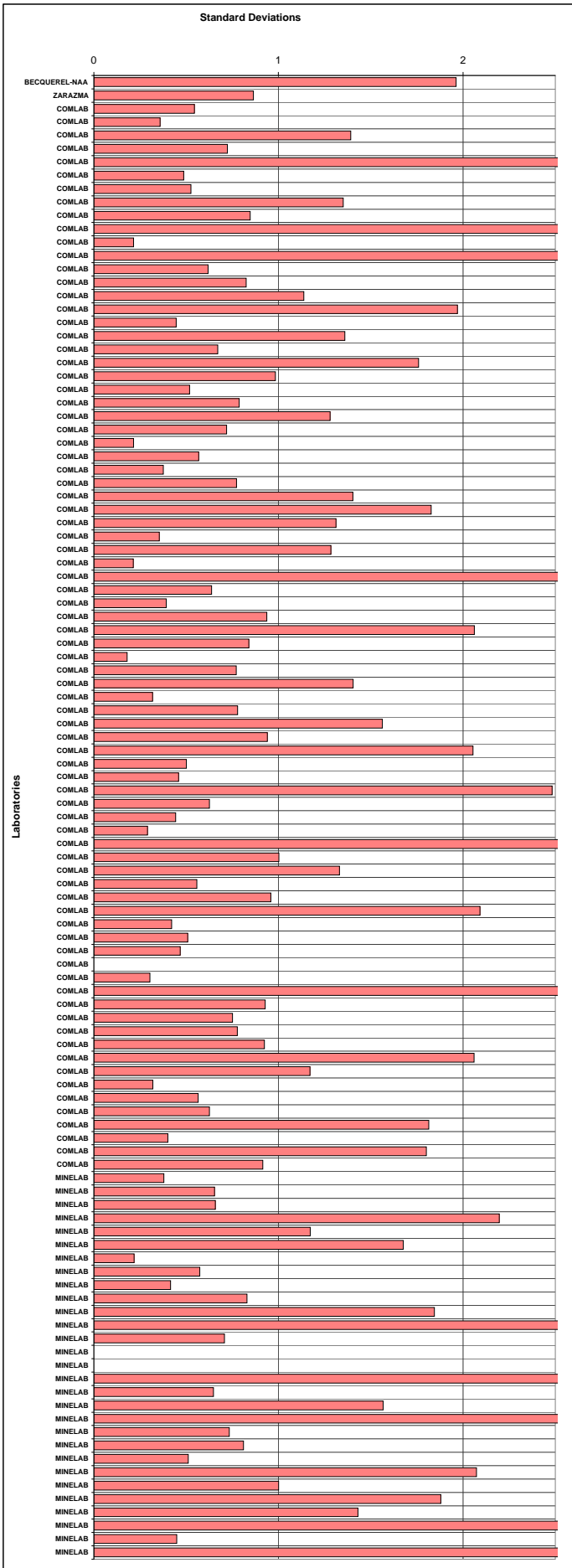
Standard Reference Lab Reference	GBM912-11		GBM912-12		GBM912-13		GBM912-14		GBM912-15		GBM912-16		Method	Reading
	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
BECQUEREL-NAA	42	0.02	29000	1.12	23500	0.94	650	-0.84	42	0.38	39500	1.48	NAA	ES
ZARAZMA	nr	nr	27340	-0.48	21452	-1.38	636	-1.34	nr	nr	35819	-0.92	AR	ES
COMLAB	nr	nr	19600	-3.00	17800	-3.00	nr	nr	nr	nr	27300	-3.00	4A	ES
COMLAB	30	-1.09	29030	1.15	23550	1.00	690	0.59	30	-0.71	39590	1.54	4A	ES
COMLAB	nr	nr	27500	-0.33	22900	0.26	nr	nr	nr	nr	37500	0.18	4A,FUS	ES
COMLAB	nr	nr	28000	0.15	22640	-0.03	nr	nr	nr	nr	36717	-0.33	4A	AAS
COMLAB	nr	nr	30555	2.63	24076	1.60	nr	nr	nr	nr	41134	2.54	1A,4A	AAS
COMLAB	nr	nr	28140	0.29	22770	0.11	nr	nr	nr	nr	38200	0.63	AR	AAS
COMLAB	nr	nr	26600	-1.20	22500	-0.19	nr	nr	nr	nr	37400	0.11	4A,FUS	ES
COMLAB	nr	nr	28000	0.15	22700	0.03	nr	nr	nr	nr	38300	0.70	4A	ES
COMLAB	nr	nr	26494	-1.30	21662	-1.14	nr	nr	nr	nr	34612	-1.70	4A	ES
COMLAB	30	-1.09	28090	0.24	22720	0.06	630	-1.56	20	-1.62	38210	0.64	3A	ES
COMLAB	nr	nr	27600	-0.23	22500	-0.19	nr	nr	nr	nr	37600	0.24	4A	ES
COMLAB	nr	nr	27700	-0.14	23100	0.49	nr	nr	nr	nr	37200	-0.02	1A,3A	AAS
COMLAB	nr	nr	27300	-0.52	22000	-0.47	nr	nr	nr	nr	38200	0.63	4A	ES
COMLAB	nr	nr	28250	0.40	23670	1.14	nr	nr	nr	nr	38230	0.65	4A	ES
COMLAB	<1000	bid	27700	-0.14	22300	-0.42	<1000	bid	<1000	bid	38800	1.02	3A	ES
COMLAB	nr	nr	27700	-0.14	22400	-0.31	nr	nr	nr	nr	38000	0.50	4A	ES
COMLAB	nr	nr	26800	-1.01	22400	-0.31	nr	nr	nr	nr	37300	0.05	4A	ES
COMLAB	nr	nr	27860	0.02	22863	0.22	nr	nr	nr	nr	38378	0.75	4A	ES
COMLAB	nr	nr	26500	-1.30	21300	-1.55	nr	nr	nr	nr	35300	-1.26	4A	AAS
COMLAB	nr	nr	29600	1.71	23400	0.83	nr	nr	nr	nr	38500	0.83	3A	ES
COMLAB	30	-1.09	26152	-1.64	21204	-1.66	666	-0.27	24	-1.26	34578	-1.73	3A	ES
COMLAB	nr	nr	28300	0.45	21900	-0.87	nr	nr	nr	nr	37300	0.05	AR	ES
COMLAB	nr	nr	27700	-0.14	22200	-0.53	nr	nr	nr	nr	37000	-0.15	AR	ES
COMLAB	nr	nr	28000	0.15	23200	0.60	nr	nr	nr	nr	38400	0.76	4A	ES
COMLAB	nr	nr	29300	1.41	23500	0.94	nr	nr	nr	nr	38800	1.02	4A	AAS
COMLAB	nr	nr	28400	0.54	23100	0.49	nr	nr	nr	nr	37000	-0.15	AR	AAS
COMLAB	nr	nr	27800	-0.04	23300	0.72	nr	nr	nr	nr	38800	1.02	4A	ES
COMLAB	nr	nr	28700	0.83	23300	0.72	nr	nr	nr	nr	38500	0.83	4A	AAS
COMLAB	nr	nr	26500	-1.30	21200	-1.67	nr	nr	nr	nr	36200	-0.67	4A	ES
COMLAB	nr	nr	24380	-3.00	20700	-2.24	nr	nr	nr	nr	34960	-1.48	4A	ES
COMLAB	nr	nr	26400	-1.40	17200	-3.00	nr	nr	nr	nr	33400	-2.49	4A	ES
COMLAB	nr	nr	26900	-0.91	22000	-0.76	nr	nr	nr	nr	36600	-0.41	1A	AAS
COMLAB	nr	nr	28500	0.64	22800	0.15	nr	nr	nr	nr	38400	0.76	3A	ES
COMLAB	nr	nr	30046	2.14	21789	-1.00	nr	nr	nr	nr	34865	-1.54	3A	AAS
COMLAB	nr	nr	28336	0.48	22900	0.26	nr	nr	nr	nr	38420	0.78	AR	AAS
COMLAB	nr	nr	28700	0.83	23500	0.94	685	0.42	nr	nr	39500	1.48	4A	ES
COMLAB	nr	nr	28400	0.54	23000	0.38	nr	nr	nr	nr	37600	0.24	4A	ES
COMLAB	34	-0.72	>10000	ald	>10000	ald	570	-3.00	44	0.56	>10000	ald	AR	ES
COMLAB	nr	nr	26800	-1.01	nr	nr	nr	nr	nr	nr	nr	nr	4A	ES
COMLAB	nr	nr	26000	-1.78	22300	-0.42	nr	nr	nr	nr	35900	-0.87	4A	ES
COMLAB	nr	nr	29080	1.20	23318	0.74	nr	nr	nr	nr	39027	1.17	4A	ES
COMLAB	nr	nr	28300	0.45	23100	0.49	nr	nr	nr	nr	38100	0.57	4A	AAS
COMLAB	45	0.30	26912	-0.90	21172	-1.70	563	-3.00	54	1.47	34868	-1.54	4A	ES
COMLAB	61	1.75	27060	-0.76	22130	-0.61	673	-0.02	42	0.41	36560	-0.44	4A	ES
COMLAB	nr	nr	27485	-0.34	22209	-0.52	nr	nr	nr	nr	37144	-0.05	4A	ES
COMLAB	56	1.32	28300	0.45	23100	0.49	713	1.42	46	0.75	36400	-0.54	4A	ES
COMLAB	nr	nr	26200	-1.59	21900	-0.87	nr	nr	nr	nr	35500	-1.13	4A	AAS
COMLAB	nr	nr	26800	-1.01	22300	-0.42	nr	nr	nr	nr	35900	-0.87	3A	AAS
COMLAB	nr	nr	27320	-0.50	22434	-0.27	nr	nr	nr	nr	37200	-0.02	4A	ES
COMLAB	nr	nr	26600	-1.20	22300	-0.42	nr	nr	nr	nr	37300	0.05	AR	ES
COMLAB	47	0.48	27681	-0.15	22769	0.11	703	1.06	42	0.38	37082	-0.10	4A	ES
COMLAB	40	-0.17	24500	-3.00	21700	-1.10	670	-0.12	23	-1.35	35500	-1.13	AR	ES
COMLAB	43	0.11	28460	0.60	23040	0.42	670	-0.12	38	0.02	37700	0.31	4A	MS,ES
COMLAB	nr	nr	27257	-0.57	22385	-0.32	nr	nr	nr	nr	36480	-0.49	AR	AAS
COMLAB	49	0.67	27801	-0.04	22568	-0.12	680	0.24	49	1.02	37152	-0.05	AR	AAS
COMLAB	<500	bid	32700	3.00	26900	3.00	760	3.00	<500	bid	44000	3.00	AR	ES
COMLAB	nr	nr	26596	-1.21	22932	0.30	nr	nr	nr	nr	36756	-0.31	AR	AAS
COMLAB	nr	nr	28477	0.62	23392	0.82	nr	nr	nr	nr	38163	0.61	3A	AAS
COMLAB	51	0.85	27800	-0.04	22639	-0.03	696	0.81	32	-0.53	33662	-2.32	3A	ES
COMLAB	nr	nr	27621	-0.21	22122	-0.62	nr	nr	nr	nr	38331	0.72	AR	ES
COMLAB	nr	nr	28952	1.08	23355	0.78	nr	nr	nr	nr	38344	0.73	FUS	ES
COMLAB	nr	nr	29100	1.22	24200	1.74	nr	nr	nr	nr	38300	0.70	3A	AAS
COMLAB	nr	nr	28000	0.15	23200	0.60	nr	nr	nr	nr	38400	0.76	4A	AAS
COMLAB	nr	nr	28020	0.17	22640	-0.03	nr	nr	nr	nr	37054	-0.11	4A	AAS
COMLAB	nr	nr	27900	0.06	23542	0.99	nr	nr	nr	nr	38679	0.95	4A	AAS
COMLAB	nr	nr	28900	1.03	23400	0.83	nr	nr	nr	nr	37700	0.31	4A	AAS
COMLAB	nr	nr	>2000	ald	>2000	ald	nr	nr	nr	nr	>2000	ald	AR	MS
COMLAB	nr	nr	32900	3.00	24700	2.31	nr	nr	nr	nr	46400	3.00	4A	ES
COMLAB	46	0.39	27400	-0.43	23100	0.49	706	1.17	54	1.47	36900	-0.21	4A	ES
COMLAB	38	-0.35	28807	0.94	23592	1.05	673	-0.01	37	-0.07	39523	1.50	4A,FUS	ES
COMLAB	<500	bid	28200	0.35	23100	0.49	700	0.95	<500	bid	37000	-0.15	FUS	ES
COMLAB	30	-1.09	27704	-0.13	22403	-0.30	651	-0.80	24	-1.26	36437	-0.52	4A	ES
COMLAB	nr	nr	25300	-2.46	20200	-2.80	nr	nr	nr	nr	34000	-2.10	3A	ES
COMLAB	nr	nr	27164	-0.66	22304	-0.42	nr	nr	nr	nr	36986	-0.16	3A	AAS
COMLAB	nr	nr	27797	-0.04	22862	0.22	nr	nr	nr	nr	37258	0.02	4A	AAS
COMLAB	62	1.91	28030	0.18	22940	0.31	693	0.70	54	1.48	37730	0.33	3A	ES
COMLAB	nr	nr	27294	-0.53	22062	-0.69	nr	nr	nr	nr	35792	-0.94	4A	AAS
COMLAB	nr	nr	28300	0.45	23600	1.06	nr	nr	nr	nr	37600	0.24	1A	AAS
MINELAB	nr	nr	28400	0.54	22900	0.26								



Ore Grade Silver Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - October 2012

Standard Reference	GBM912-11	GBM912-12	GBM912-13	GBM912-14	GBM912-15	GBM912-16
MEAN (ppm)	8.8	1.9	3.0	20.4	3.9	2.0
STDEV (ppm)	0.9	0.6	0.6	1.4	0.6	0.6
95% CI (ppm)	0.2	0.1	0.1	0.3	0.1	0.1
95% CI (%)	1.90%	6.75%	4.51%	1.31%	3.21%	6.63%
MIN (ppm)	6.8	0.4	1.7	16.7	2.7	0.6
MEDIAN (ppm)	8.9	1.8	3.0	20.4	4.0	2.0
MAX (ppm)	11.0	3.2	4.7	23.3	5.5	3.5
IQR (ppm)	0.8	0.5	0.4	1.6	0.6	0.5
COUNT	104	85	88	104	92	85

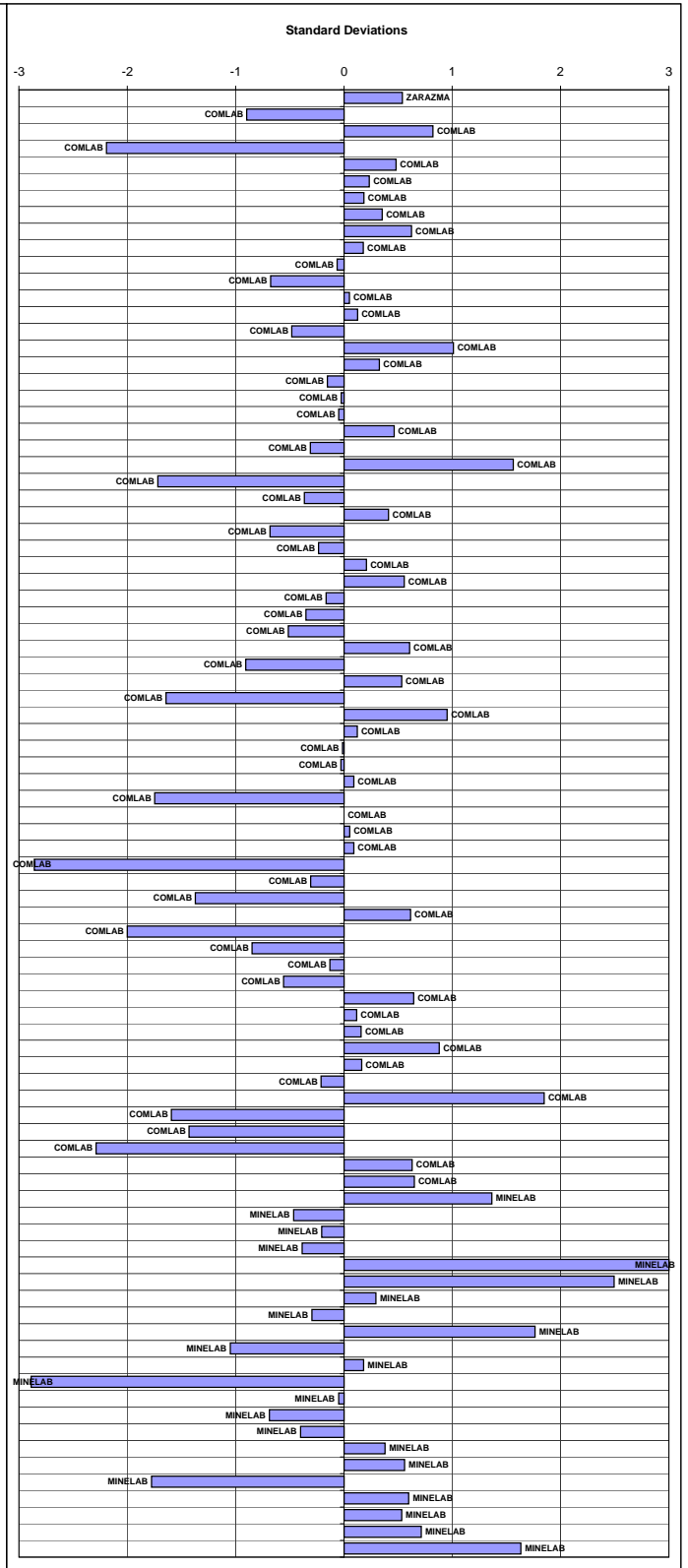
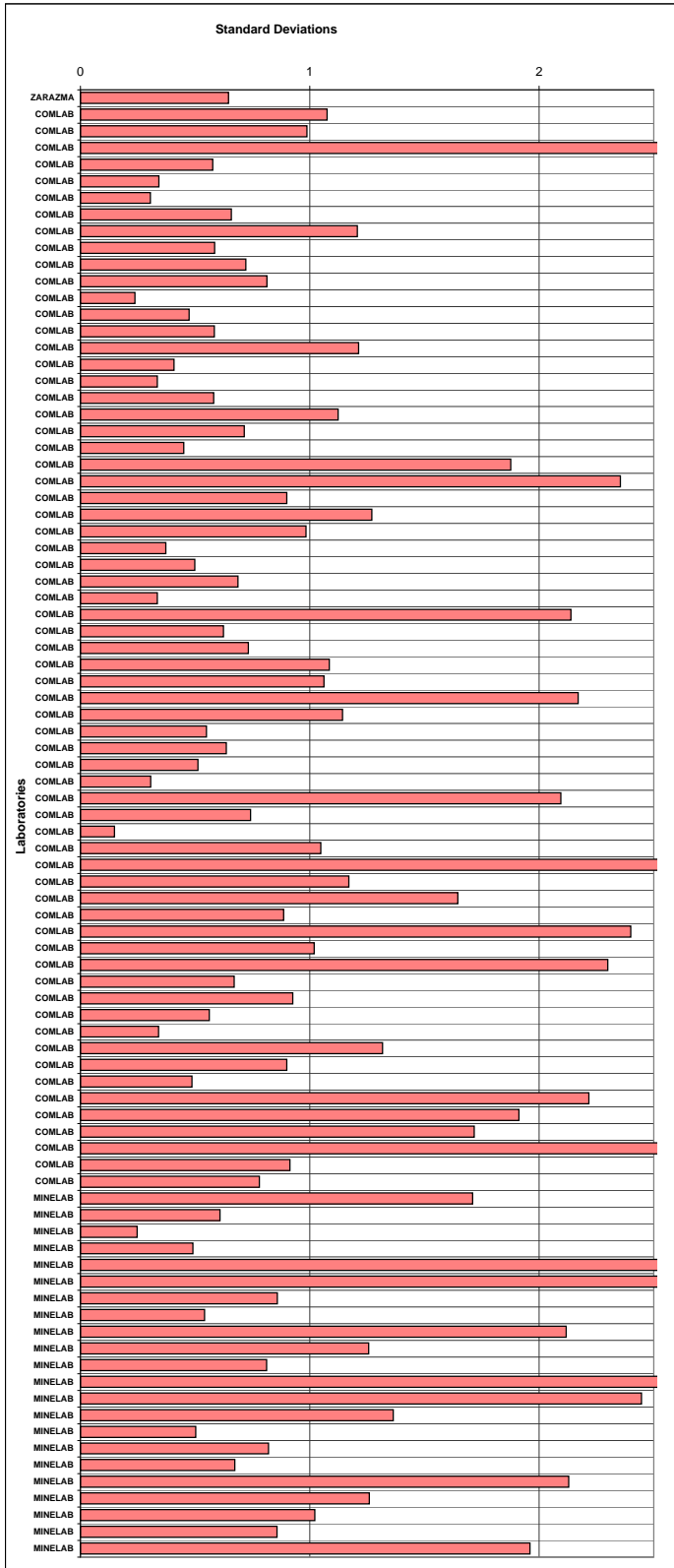
Standard Reference	GBM912-11		GBM912-12		GBM912-13		GBM912-14		GBM912-15		GBM912-16		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
BECQUEREL-NAA	8.0	-0.95	2.0	0.26	2.0	-1.51	17.0	-2.49	2.0	-3.00	1.0	-1.61	NAA	
ZARAZMA	8.2	-0.72	1.4	-0.82	2.8	-0.25	19.1	-0.97	3.3	-0.94	1.6	-0.62	AR	ES
COMLAB	8.9	0.09	1.4	-0.82	2.7	-0.40	19.6	-0.61	3.5	-0.57	1.9	-0.22	4A	ES
COMLAB	8.9	0.09	1.5	-0.60	2.8	-0.25	20.3	-0.10	3.7	-0.28	1.7	-0.48	4A	ES
COMLAB	8.0	-0.95	<3.0	bld	<3.0	bld	21.0	0.40	3.0	-1.43	<3.0	bld	4A	ES
COMLAB	7.8	-1.18	1.7	-0.26	2.6	-0.56	19.7	-0.54	3.6	-0.44	1.6	-0.64	AR	AAS
COMLAB	11.0	2.51	3.0	1.97	4.0	1.64	25.0	3.00	6.0	3.00	3.0	1.62	1A,4A	AAS
COMLAB	8.9	0.09	1.6	-0.43	2.6	-0.56	20.3	-0.10	3.5	-0.61	1.6	-0.64	AR	AAS
COMLAB	9.0	0.21	<3.0	bld	<3.0	bld	20.0	-0.32	<3.0	bld	<3.0	bld	4A	ES
COMLAB	8.0	-0.95	<3.0	bld	<3.0	bld	20.0	-0.32	3.0	-1.43	<3.0	bld	4A	ES
COMLAB	9.6	0.90	2.1	0.43	3.1	0.23	20.2	-0.18	4.8	1.54	1.4	-0.96	4A	ES
COMLAB	7.0	-2.10	<5.0	bld	<5.0	bld	19.0	-1.04	<5.0	bld	<5.0	bld	3A	ES
COMLAB	9.0	0.21	2.0	0.26	3.0	0.07	20.0	-0.32	4.0	0.22	2.0	0.00	4A	ES
COMLAB	11.0	2.51	6.0	3.00	6.0	3.00	25.0	3.00	5.0	1.87	5.0	3.00	1A,3A	AAS
COMLAB	9.0	0.21	2.0	0.26	3.0	0.07	22.0	1.13	3.0	-1.43	2.0	0.00	4A	ES
COMLAB	9.0	0.21	2.0	0.26	2.0	-1.51	20.0	-0.32	4.0	0.22	3.0	1.62	4A	ES
COMLAB	9.0	0.21	3.0	1.97	3.0	0.07	21.0	0.40	3.0	-1.43	1.0	-1.61	4A	ES
COMLAB	8.0	-0.95	1.0	-1.46	1.0	-1.46	19.0	-1.04	3.0	-1.43	<1.0	bld	4A	ES
COMLAB	8.8	-0.03	1.5	-0.60	2.7	-0.40	19.6	-0.61	3.8	-0.11	1.7	-0.48	4A	ES
COMLAB	8.0	-0.95	2.0	0.26	2.0	-1.51	19.0	-1.04	3.0	-1.43	1.0	-1.61	4A	AAS
COMLAB	9.1	0.32	1.6	-0.43	2.7	-0.40	21.4	0.69	4.1	0.38	1.3	-1.13	4A	AAS,ES
COMLAB	10.0	1.36	<5.0	bld	<5.0	bld	21.0	0.40	<5.0	bld	<5.0	bld	3A	ES
COMLAB	8.4	-0.49	0.9	-1.63	2.6	-0.56	20.2	-0.18	3.3	-0.94	1.3	-1.13	3A	ES
COMLAB	9.0	0.21	2.0	0.26	2.0	-1.51	20.0	0.40	4.0	0.22	2.0	0.00	AR	ES
COMLAB	10.0	1.36	3.0	1.97	3.0	0.07	20.0	-0.32	4.0	0.22	2.0	0.00	AR	ES
COMLAB	8.0	-0.95	3.0	1.97	4.0	1.64	21.0	0.40	3.0	-1.43	2.0	0.00	4A	ES
COMLAB	9.0	0.21	3.0	1.97	3.0	0.07	22.0	1.13	4.0	0.22	2.0	0.00	4A	AAS
COMLAB	9.0	0.21	2.0	0.26	3.0	0.07	20.0	-0.32	4.0	0.22	2.0	0.00	AR	AAS
COMLAB	8.8	-0.03	1.4	-0.77	2.4	-0.88	20.1	-0.25	3.6	-0.44	1.7	-0.48	AR	AAS
COMLAB	9.0	0.21	2.0	0.26	3.0	0.07	22.0	1.13	4.0	0.22	2.0	0.00	4A	ES
COMLAB	8.9	0.09	2.0	0.26	3.7	1.17	21.1	0.48	4.8	1.54	2.2	0.33	4A	ES
COMLAB	10.0	1.36	<2.0	bld	3.0	-1.51	21.2	1.13	4.0	0.22	<2.0	bld	4A	AAS
COMLAB	10.1	1.47	2.5	1.11	4.3	2.12	21.3	0.82	5.0	1.87	3.2	1.94	4A	ES
COMLAB	8.0	-0.95	1.0	-1.46	3.0	0.07	19.0	-1.04	3.0	-1.43	1.0	-1.61	1A	AAS
COMLAB	8.4	-0.49	1.8	-0.09	3.0	0.07	20.5	0.04	3.4	-0.77	1.8	-0.32	3A	MS
COMLAB	8.0	-0.98	1.2	-1.11	2.3	-1.10	19.0	-1.04	4.0	0.22	1.9	-0.32	3A	AAS
COMLAB	8.7	-0.14	1.7	-0.26	2.9	-0.09	20.5	0.04	4.0	0.22	1.8	-0.32	AR	AAS
COMLAB	8.0	-0.95	<4.0	bld	<4.0	bld	18.0	-1.77	<4.0	bld	<4.0	bld	FUS	XRF
COMLAB	8.5	-0.37	1.5	-0.60	3.0	0.07	22.0	1.13	4.0	0.22	1.5	-0.80	4A	MS
COMLAB	8.5	-0.37	2.0	0.26	3.0	0.07	19.0	-1.04	4.0	0.22	2.0	0.00	4A	MS
COMLAB	10.8	2.28	1.8	-0.09	2.9	-0.09	20.7	0.19	5.1	2.04	2.0	0.00	AR	ES
COMLAB	8.0	-0.95	3.0	1.97	4.0	1.64	22.0	1.13	2.0	-3.00	3.0	1.62	4A	MS
COMLAB	10.2	1.59	1.6	-0.43	2.7	-0.40	21.4	0.69	3.5	-0.61	1.7	-0.48	4A	AAS
COMLAB	9.0	0.16	1.8	-0.09	2.9	-0.10	20.3	-0.14	3.7	0.34	2.0	0.07	4A	MS
COMLAB	8.3	-0.60	1.4	-0.77	2.7	-0.40	19.3	-0.83	3.4	-0.77	1.7	-0.48	4A	AAS
COMLAB	9.6	0.90	2.3	0.77	4.4	2.27	21.7	0.91	4.3	0.71	2.9	1.46	4A	AAS
COMLAB	8.9	0.10	<3.0	bld	3.1	0.16	20.4	-0.02	3.5	-0.67	<3.0	bld	4A	ES
COMLAB	9.0	0.21	<2.0	bld	2.0	-1.51	21.0	0.40	4.0	0.22	<2.0	bld	4A	ES
COMLAB	8.7	-0.14	3.8	3.00	3.3	0.54	19.4	-0.75	2.9	-1.60	3.1	1.78	4A	MS
COMLAB	8.0	-0.95	1.3	-0.94	2.4	-0.88	20.2	-0.18	3.2	-1.10	2.0	0.65	4A	AAS
COMLAB	9.0	0.21	<5.0	bld	<5.0	bld	23.0	1.85	<5.0	bld	<5.0	bld	3A	AAS
COMLAB	8.6	-0.26	1.4	-0.77	2.8	-0.25	19.7	-0.54	4.0	0.22	1.7	-0.48	4A	ES
COMLAB	9.0	0.21	1.5	-0.60	3.0	0.07	21.0	0.40	4.0	0.22	1.5	-0.80	4A	ES
COMLAB	10.0	1.36	<5.0	bld	<5.0	bld	22.0	1.13	<5.0	bld	<5.0	bld	4A	ES
COMLAB	8.6	-0.26	2.0	0.26	3.6	1.01	21.6	0.84	3.7	-0.28	2.3	0.49	AR	AAS,ES
COMLAB	9.5	0.72	1.8	-0.17	2.9	-0.09	21.1	0.48	4.2	0.60	1.9	-0.16	AR	MS
COMLAB	8.7	-0.14	1.8	-0.09	3.0	0.07	21.3	0.62	4.1	0.38	1.9	-0.16	4A	MS
COMLAB	10.0	1.36	4.5	3.00	5.5	3.00	22.5	1.49	6.0	3.00	4.0	3.00	AR	AAS
COMLAB	9.0	0.21	1.0	-1.46	2.0	-1.51	21.0	0.40	3.0	-1.43	2.0	0.00	1A,4A	AAS
COMLAB	9.0	0.21	<5.0	bld	<5.0	bld	22.0	1.13	<5.0	bld	<5.0	bld	3A	AAS
COMLAB	8.4	-0.49	1.5	-0.60	3.0	0.07	18.8	-1.19	3.7	-0.28	2.1	0.17	3A	AAS
COMLAB	7.2	-1.87	2.1	0.43	3.4	0.70	20.5	0.04	3.1	-1.27	2.3	0.49	3A	ES
COMLAB	10.2	1.59	<3.0	bld	<3.0	bld	21.1	0.48	5.2	2.12	<3.0	bld	AR	ES
COMLAB	9.0	0.19	1.6	-0.41	2.9	-0.06	20.2	-0.19	4.0	0.24	2.6	1.03	AR	AAS
COMLAB	8.0	-0.95	2.0	0.26	3.0	0.07	19.0	-1.04	4.0	0.22	2.0	0.00	3A	AAS
COMLAB	8.7	-0.14	1.5	-0.60	2.7	-0.40	20.3	-0.10	3.4	-0.77	1.8	-0.32	4A	AAS
COMLAB	<100.0	bld	<100.0	bld	<100.0	bld	<100.0	bld	<100.0	bld	<100.0	bld	4A	AAS
COMLAB	8.5	-0.37	1.6	-0.43	2.8	-0.25	20.3	-0.10	3.9	0.05	1.8	-0.32	4A	AAS
COMLAB	7.0	-2.10	<5.0	bld	<5.0	bld	18.0	-1.77	<5.0	bld	<5.0	bld	4A	AAS
COMLAB	9.0	0.21	2.4	0.94	2.0	-1.51	19.8	-0.47	4.5	1.05	1.7	-0.48	AR	MS
COMLAB	10.0	1.36	1.7	-0.26	3.0	0.07	22.0	1.13	3.3	-0.94	2.0	0.00	4A	MS
COMLAB	9.4	0.67	1.8	-0.09	3.5	0.86	21.7	0.91	4.4	0.88	2.3	0.49	4A	ES
COMLAB	8.0	-0.95	1.0	-1.46	3.0	0.07	20.0	-0.32	4.0	0.22	1.0	-1.61	3A,4A	AAS,ES
COMLAB	6.0	-3.00	2.0	0.26	2.0	-1.51	17.0	-2.49	3.0	-1.43	1.0	-1.61	AR	AAS
COMLAB	9.7	1.01	3.1	2.14	2.8	-0.25	23.1	1.92	4.0	0.22	1.8	-0.32	4A	ES
COMLAB	9.0	0.21	1.5	-0.60	2.9	-0.09	20.6	0.11	3.8	-0.11	1.7	-0.48	AR	AAS
COMLAB	8.3	-0.60	1.5	-0.60	3.1	0.23	21.1	0.48	3.5	-0.61	1.8	-0.32	3A	AAS
COMLAB	9.2	0.44	1.6	-0.43	3.1	0.23	21.6	0.84						



Sulphur in Ore Grade Samples Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - October 2012

Standard Reference	GBM912-11	GBM912-12	GBM912-13	GBM912-14	GBM912-15	GBM912-16
MEAN (%)	3.49	9.78	8.01	4.40	1.99	11.55
STDEV (%)	0.18	0.32	0.24	0.15	0.10	0.38
95% CI (%)	0.04	0.07	0.05	0.03	0.02	0.09
95% CI (rel %)	1.08%	0.73%	0.67%	0.76%	1.08%	0.77%
MIN (%)	3.05	8.97	7.42	4.03	1.74	10.51
MEDIAN (%)	3.49	9.76	8.02	4.39	2.00	11.50
MAX (%)	3.93	10.57	8.54	4.80	2.22	12.49
IQR (%)	0.21	0.38	0.34	0.20	0.11	0.50
COUNT	85	80	77	82	82	73

Standard Reference	GBM912-11		GBM912-12		GBM912-13		GBM912-14		GBM912-15		GBM912-16		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
ZARAZMA	3.52	0.16	10.05	0.83	8.10	0.57	4.52	0.80	2.07	0.73	11.67	0.33	AR,FUS	ES
COMLAB	3.05	-2.48	9.72	-0.17	7.99	-0.08	4.30	-0.62	1.85	-1.46	11.33	-0.56	AR	ES
COMLAB	3.58	0.53	10.00	0.69	8.24	0.97	4.49	0.61	2.14	1.47	11.80	0.66	CSA	IR
COMLAB	3.15	-1.91	8.97	-2.48	7.42	-2.49	4.21	-1.20	1.76	-2.37	10.51	-2.70	CSA	IR
COMLAB	3.58	0.53	10.10	1.00	8.05	0.17	4.43	0.22	2.05	0.56	11.70	0.40	FUS	ES
COMLAB	3.46	-0.15	9.87	0.29	8.13	0.51	4.41	0.09	2.02	0.26	11.70	0.40	3A	ES
COMLAB	3.52	0.19	9.80	0.08	7.96	-0.21	4.42	0.16	2.03	0.36	11.75	0.53	CSA	IR
COMLAB	3.64	0.87	9.91	0.41	8.19	0.76	4.39	-0.04	1.94	-0.55	11.80	0.66	CSA	IR
COMLAB	3.40	-0.49	10.10	1.00	8.48	1.98	4.60	1.33	1.93	-0.65	11.77	0.59	4A	ES
COMLAB	3.39	-0.55	9.88	0.32	7.99	-0.08	4.35	-0.30	2.03	0.36	12.05	1.32	3A	ES
COMLAB	3.34	-0.84	9.84	0.20	8.12	0.46	4.42	0.16	1.88	-1.16	11.85	0.79	4A	ES
COMLAB	3.35	-0.78	9.53	-0.76	7.76	-1.05	4.28	-0.75	1.96	-0.35	11.40	-0.38	CSA	IR
COMLAB	3.44	-0.27	9.76	-0.05	7.98	-0.13	4.41	0.09	2.04	0.46	11.62	0.19	CSA	IR
COMLAB	3.60	0.64	9.65	-0.39	7.91	-0.42	4.46	0.42	2.03	0.36	11.60	0.14	CSA	IR
COMLAB	3.49	0.02	9.47	-0.94	7.88	-0.55	4.29	-0.68	1.96	-0.35	11.40	-0.38	3A	ES
COMLAB	3.65	0.92	10.57	2.45	8.33	1.35	4.44	0.29	2.01	0.16	11.89	0.90	3A	ES
COMLAB	3.49	0.02	10.00	0.69	8.06	0.21	4.45	0.35	2.03	0.36	>10.00	aid	AR	ES
COMLAB	3.53	0.24	9.75	-0.08	8.02	0.04	4.33	-0.43	1.94	-0.55	>10.00	aid	AR	ES
COMLAB	3.41	-0.44	9.70	-0.23	8.08	0.30	4.52	0.81	1.94	-0.55	>10.00	aid	4A	ES,IR
COMLAB	3.60	0.64	9.45	-1.00	7.70	-1.31	4.70	1.97	2.00	0.06	11.30	-0.64	AR,CSA	IR
COMLAB	3.44	-0.27	9.95	0.54	8.10	0.38	4.52	0.81	2.08	0.87	>10.00	aid	4A	ES
COMLAB	3.41	-0.44	9.84	0.20	7.89	-0.51	4.33	-0.43	1.99	-0.04	11.30	-0.64	CSA	IR
COMLAB	3.50	0.07	10.10	1.00	8.84	3.00	4.72	2.10	2.22	2.28	11.90	0.92	CSA	IR
COMLAB	3.30	-1.06	7.80	-3.00	6.72	-3.00	4.51	0.74	1.90	-0.98	9.14	-3.00	CSA	IR
COMLAB	3.61	0.70	9.33	-1.37	7.78	-0.97	4.30	-0.62	2.04	0.46	11.40	-0.38	4A	ES
COMLAB	3.71	1.27	9.97	0.60	8.03	0.08	4.58	1.20	2.12	1.27	10.80	-1.94	CSA	IR
COMLAB	3.33	-0.89	9.91	0.41	7.80	-0.89	4.27	-0.81	1.92	-0.75	11.10	-1.16	FUS	IR
COMLAB	3.46	-0.15	9.85	0.23	7.90	-0.46	4.36	-0.23	1.98	-0.15	11.30	-0.64	FUS,CSA	IR
COMLAB	3.58	0.53	9.69	-0.26	8.10	0.38	4.34	-0.36	2.05	0.56	11.70	0.40	FUS	XRF
COMLAB	3.62	0.75	10.00	0.69	8.40	1.65	4.42	0.16	1.99	-0.04	11.60	0.14	4A	ES
COMLAB	3.52	0.19	9.74	-0.11	7.78	-0.55	4.39	-0.04	2.01	0.16	11.30	-0.64	4A	ES
COMLAB	3.67	1.04	9.03	-2.30	7.85	-1.10	5.10	3.00	2.02	0.26	9.86	-3.00	4A	ES
COMLAB	3.49	0.02	9.58	-0.60	7.86	-0.63	4.30	-0.62	1.96	-0.35	11.20	-0.90	4A	ES
COMLAB	3.48	-0.01	9.94	0.51	8.06	0.23	4.56	1.05	2.09	0.95	11.90	0.91	4A	ES
COMLAB	3.33	-0.89	9.36	-1.28	7.70	-1.31	4.21	-1.20	1.94	-0.55	11.47	-0.20	FUS,CSA	IR
COMLAB	3.57	0.47	10.03	0.78	8.39	1.60	4.46	0.42	1.89	-1.06	11.92	0.98	CSA	IR
COMLAB	3.07	-2.35	8.70	-3.00	8.13	0.50	4.03	-2.35	1.88	-1.18	10.98	-1.47	AR	ES
COMLAB	3.65	0.92	10.39	1.89	8.20	0.80	4.54	0.94	2.02	0.26	11.89	0.90	4A	ES
COMLAB	3.48	-0.04	9.74	-0.11	8.42	1.73	4.38	-0.10	1.92	-0.75	11.55	0.01	4A	ES
COMLAB	3.48	-0.04	9.50	-0.85	7.95	-0.25	4.58	1.20	2.03	0.36	11.36	-0.48	4A	ES
COMLAB	3.60	0.64	9.71	-0.20	7.91	-0.42	4.30	-0.62	2.05	0.56	11.50	-0.12	CSA	IR
COMLAB	3.50	0.06	9.72	-0.18	8.14	0.54	4.43	0.22	2.02	0.22	11.43	-0.31	4A	ES
COMLAB	2.84	-3.00	9.36	-1.28	7.86	-0.63	4.18	-1.40	1.64	-3.00	11.10	-1.16	4A	ES
COMLAB	3.35	-0.78	10.06	0.88	8.22	0.89	4.41	0.09	1.91	-0.85	11.46	-0.22	4A	ES
COMLAB	3.50	0.07	9.74	-0.11	8.01	0.00	4.38	-0.10	2.00	0.06	11.70	0.40	CSA	IR
COMLAB	3.68	1.09	9.55	-0.68	7.82	-0.82	4.47	0.51	2.12	1.29	11.22	-0.85	4A	ES
COMLAB	3.11	-2.15	8.74	-3.00	7.18	-3.00	3.83	-3.00	1.58	-3.00	10.37	-3.00	FUS	ES
COMLAB	3.72	1.32	9.22	-1.71	7.82	-0.80	4.19	-1.33	2.03	0.36	11.67	0.32	4A	ES
COMLAB	3.25	-1.35	9.25	-1.62	7.66	-1.48	4.20	-1.27	1.86	-1.36	11.10	-1.16	CSA	IR
COMLAB	3.63	0.81	9.72	-0.17	8.02	0.04	4.57	1.13	2.20	2.08	11.47	-0.20	CSA	IR
COMLAB	3.12	-2.06	9.51	-0.83	7.23	-3.00	4.20	-1.24	1.74	-2.62	10.68	-2.25	AR	ES
COMLAB	3.37	-0.67	9.42	-1.10	7.71	-1.27	4.20	-1.26	1.96	-0.33	11.36	-0.48	CSA	IR
COMLAB	3.51	0.13	10.50	2.23	6.39	-3.00	4.23	-1.07	1.79	-2.07	13.80	-3.00	CSA	IR
COMLAB	3.42	-0.38	9.57	-0.63	7.75	-1.10	4.31	-0.55	1.99	-0.04	11.30	-0.64	PP,CSA	IR
COMLAB	3.42	-0.38	10.20	1.31	8.19	0.76	4.50	0.68	2.00	0.06	12.10	1.45	CSA	IR
COMLAB	3.54	0.30	9.64	-0.42	7.86	-0.63	4.45	0.35	2.09	0.97	11.60	0.14	CSA	AAS,IR
COMLAB	3.45	-0.21	9.83	0.17	8.08	0.30	4.37	-0.17	2.04	0.46	11.70	0.40	4A	AAS
COMLAB	3.70	1.21	10.10	1.00	8.33	1.35	4.62	1.45	1.93	-0.65	11.90	0.92	AR,CSA	IR
COMLAB	3.36	-0.72	10.10	1.00	8.08	0.30	4.32	-0.49	1.94	-0.55	12.10	1.45	4A	ES
COMLAB	3.53	0.24	9.60	-0.53	7.95	-0.24	4.28	-0.74	2.03	0.34	11.42	-0.33	CSA	IR
COMLAB	3.92	2.46	9.86	0.26	8.54	2.24	4.62	1.45	2.16	1.67	12.90	3.00	CSA	IR
COMLAB	3.23	-1.46	9.36	-1.28	7.76	-1.05	4.14	-1.66	1.77	-2.27	10.84	-1.84	3A	ES
COMLAB	3.36	-0.72	9.18	-1.83	7.65	-1.52	4.20	-1.27	1.75	-2.47	11.25	-0.77	AR,IH	GRAV
COMLAB	3.28	-1.18	8.24	-3.00	6.95	-3.00	3.91	-3.00	1.94	-0.55	9.14	-3.00	4A	ES
COMLAB	3.47	-0.10	9.87	0.29	8.27	1.10	4.80	2.62	2.01	0.16	11.43	-0.30	CSA	IR
COMLAB	3.63	0.81	9.87	0.29	8.17	0.68	4.49	0.61	2.13	1.37	11.60	0.14	CSA	IR
MINELAB	3.49	-0.01	10.54	2.37	8.78	3.00	4.56	1.05	2.04	0.42	nr	nr	CSA	IR
MINELAB	3.51	0.13	9.53	-0.76	7.82	-0.80	4.35	-0.30	1.94	-0.55	11.35	-0.51	IH	TITR
MINELAB	3.48	-0.04	9.77	-0.02	7.92	-0.38	4.36	-0.23	1.95	-0.45	11.50	-0.12	CSA	IR
MINELAB	3.37	-0.65	9.77	-0.03	8.03	0.07	4.34	-0.35	1.98	-0.14	11.08	-1.21	3A	GRAV
MINELAB	4.52	3.00	12.40	3.00	10.07	3.00	5.48	3.00	2.53	3.00	14.86	3.00	CSA	IR
MINELAB	3.93	2.51	10.90	3.00	8.54	2.24	5.35	3.00	2.19	1.98	12.40	2.23	4A	ES
MINELAB	3.65	0.92	9.89	0.35	8.22	0.89	4.50	0.68	1.87	-1.26	11.62	0.19	CSA	IR
MINELAB	3.57	0.47	9.62	-0.48	7.81	-0.84	4.38	-0.10	1.99	-0.04	11.25	-0.77	AD	ES
MINELAB	3.90	2.34	10.20	1.31	8.78	3.00	4.64	1.58	2.10	1.07	12.04	1.29	CSA	IR
MINELAB	3.45	-0.21	9.61	-0.51	7.68	-1.39	4.30	-0.62	1.94	-0.55	9.95	-3.00	FUS	XRF
MINELAB	3.67	1.04	9.64	-0.42	7.92	-0.38	4.53	0.87	2.06	0.66	11.28	-0.69	CSA	IR
MINELAB	2.83	-3.00	8.74	-3.00	7.14	-3.00	4.04	-2.33	1.65	-3.00	9.61	-3.00	3A	ES
MINELAB	3.45	-0.23	28.97	3.00	3.17	-3.00	nr	nr	9.56	3.00	9.51	-3.00	CSA	IR
MINELAB	3.23	-1.46	9.36	-1.28	7.57	-1.86	4.26	-0.88	2.01	0.16	12.00	1.18	CSA	IR
MINELAB	3.47	-0.10	9.59	-0.57	7.73	-1.18	4.34	-0.36	2.00	0.06	11.45	-0.25	CSA	IR
MINELAB	3.47	-0.10	9.90	0.38	8.16	0.63	4.27	-0.81	2.10	1.07	11.97	1.11	FUS,CSA	IR
MINELAB	3.59	0.58	9.94	0.51	8.16	0.63	4.46	0.42	2.06	0.66	11.76	0.56	4A	ES
MINELAB	3.13	-2.04	9.43	-1.07</										

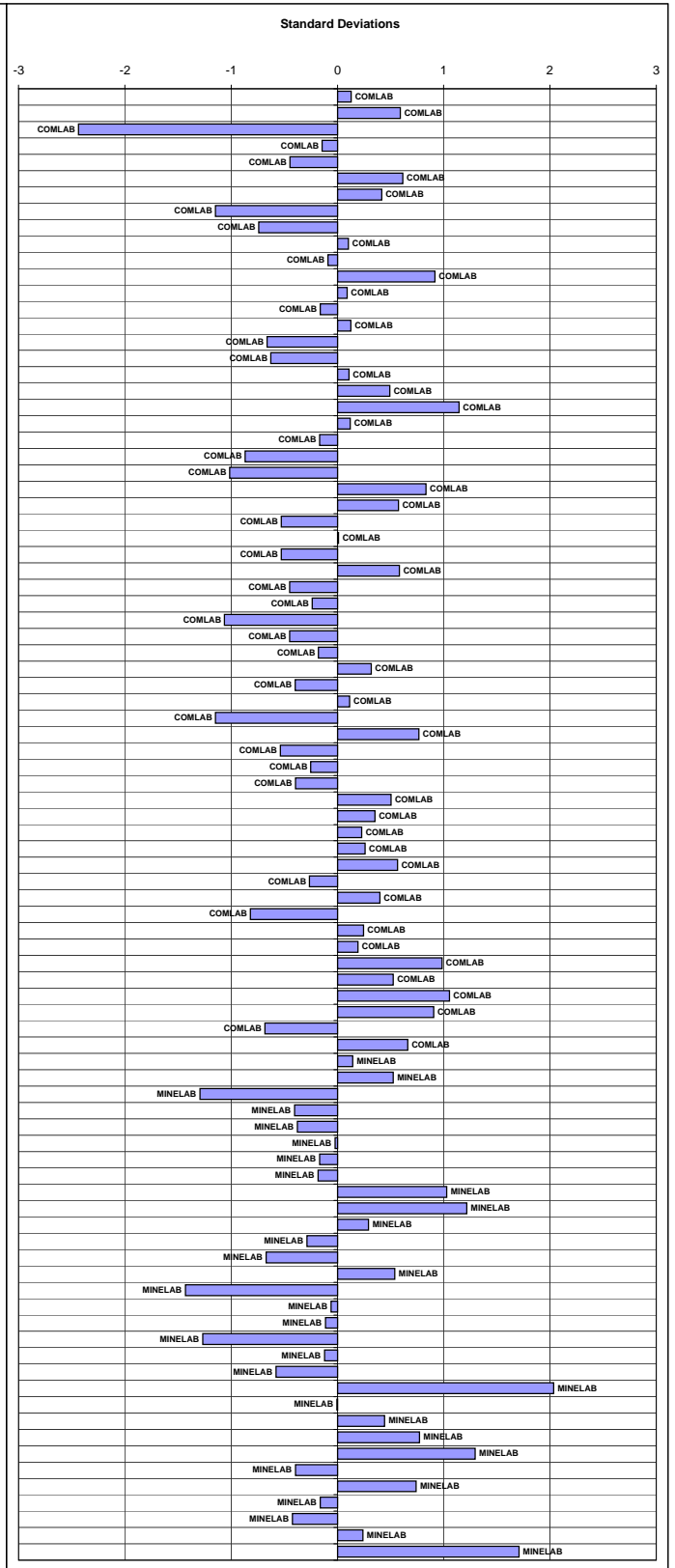


Sulphur Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - October 2012

Summary statistics table with columns: Standard Reference, GS912-1, GS912-2, GS912-3, GS912-4, GS912-5, GS912-6, GS912-7, GS912-8, GS912-9, GS912-10. Rows include MEAN (%), STDEV (%), 95% CI (%), 95% CI (rel %), MIN (%), MEDIAN (%), MAX (%), IQR (%), and COUNT.

Main data table with columns: Standard Reference, Lab Reference, GS912-1 (assay, z-score), GS912-2 (assay, z-score), GS912-3 (assay, z-score), GS912-4 (assay, z-score), GS912-5 (assay, z-score), GS912-6 (assay, z-score), GS912-7 (assay, z-score), GS912-8 (assay, z-score), GS912-9 (assay, z-score), GS912-10 (assay, z-score), Method, Reading. Rows list various lab references like COMLAB, MINELAB, etc.

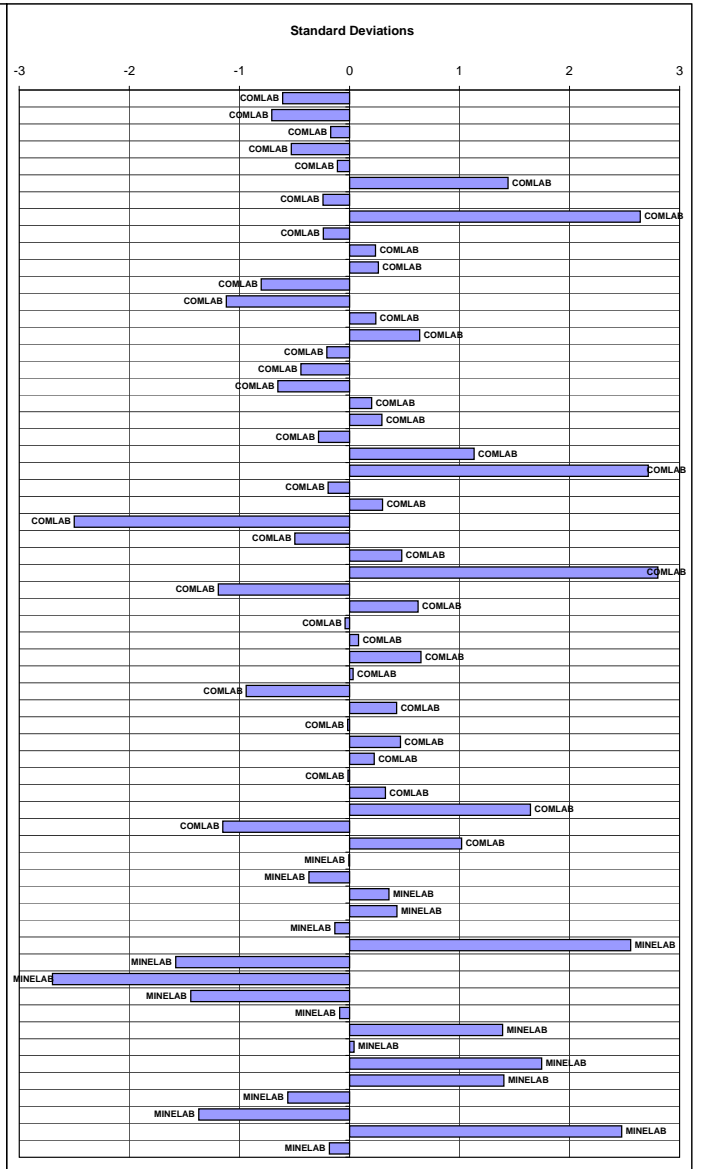
Highlighted values are outliers which are assigned a z-score of -3.00 or 3.00 in the standardised values.



Carbon Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - October 2012

Standard Reference	GS912-1	GS912-2	GS912-3	GS912-4	GS912-5	GS912-6	GS912-7	GS912-8	GS912-9	GS912-10
MEAN (%)	0.03	0.03	0.07	0.05	0.10	0.06	0.09	2.91	0.12	0.11
STDEV (%)	0.01	0.01	0.02	0.02	0.02	0.01	0.02	0.11	0.02	0.02
95% CI (%)	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.03	0.00	0.00
95% CI (rel %)	10.60%	12.55%	7.87%	10.03%	4.17%	6.28%	5.59%	0.98%	3.90%	3.98%
MIN (%)	0.01	0.01	0.02	0.01	0.08	0.04	0.05	2.65	0.09	0.09
MEDIAN (%)	0.03	0.03	0.07	0.05	0.10	0.06	0.09	2.92	0.12	0.11
MAX (%)	0.06	0.06	0.13	0.10	0.14	0.10	0.13	3.13	0.16	0.15
IQR (%)	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.12	0.02	0.03
COUNT	45	45	55	54	54	52	52	61	53	54

Standard Reference	GS912-1		GS912-2		GS912-3		GS912-4		GS912-5		GS912-6		GS912-7		GS912-8		GS912-9		GS912-10		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	<0.02	bld	<0.02	bld	0.06	-0.58	0.05	-0.07	0.09	-0.90	0.05	-0.99	0.07	-0.93	2.91	-0.03	0.10	-1.07	0.11	-0.28	CSA	IR
COMLAB	0.03	-0.25	<0.01	bld	0.06	-0.58	0.04	-0.59	0.08	-1.52	0.04	-1.86	0.07	-0.93	3.04	1.12	0.11	-0.48	0.09	-1.46	CSA	IR
COMLAB	0.06	2.46	0.02	-1.21	0.06	-0.58	0.01	-2.21	0.11	0.03	0.08	-1.11	0.05	-2.18	2.93	0.16	0.14	1.46	0.10	-0.75	CSA	IR
COMLAB	0.02	-1.09	0.01	-1.59	0.06	-0.58	0.04	-0.59	0.10	-0.28	0.05	-0.99	0.08	-0.36	2.89	-0.20	0.12	0.10	0.12	0.31	CSA	IR
COMLAB	0.02	-1.09	0.02	-0.83	0.07	-0.11	0.06	-0.45	0.11	0.34	0.06	-0.31	0.08	-0.36	2.96	0.42	0.12	0.10	0.12	0.31	CSA	IR
COMLAB	0.09	3.00	0.05	1.47	0.08	0.36	0.06	0.45	0.14	2.19	0.08	1.04	0.13	2.49	3.84	3.00	0.12	0.10	0.12	0.31		
COMLAB	0.03	-0.25	0.02	-0.83	0.07	-0.11	0.04	-0.59	0.10	-0.28	0.07	0.36	0.08	-0.36	2.96	0.42	0.11	-0.48	0.11	-0.28	CSA	IR
COMLAB	0.09	3.00	0.08	3.00	0.14	3.00	0.10	2.54	0.17	3.00	0.13	3.00	0.16	3.00	2.90	-0.11	0.18	3.00	0.18	3.00	CSA	IR
COMLAB	0.02	-1.09	0.03	-0.06	0.08	0.36	0.06	0.45	0.10	-0.28	0.06	-0.31	0.07	-0.93	2.81	-0.91	0.12	0.10	0.12	0.31	CSA	IR
COMLAB	0.06	2.29	0.03	-0.06	0.08	0.36	0.06	0.45	0.11	0.34	0.04	-1.66	0.10	0.78	2.92	0.06	0.12	0.10	0.11	-0.28	CSA	IR
COMLAB	0.04	0.60	0.08	3.00	0.12	2.23	0.04	-0.59	0.09	-0.90	0.06	-0.31	0.07	-0.93	2.88	-0.29	0.12	0.10	0.11	-0.28	CSA	IR
COMLAB	<0.03	bld	<0.03	bld	0.03	-1.98	0.03	-1.12	0.09	-0.90	<0.03	bld	0.06	-1.50	3.27	3.00	0.09	-1.66	0.09	-1.46	CSA	IR
COMLAB	0.01	-1.94	0.01	-1.59	0.06	-0.58	0.04	-0.59	0.08	-1.52	0.06	-0.31	0.07	-0.93	2.78	-1.18	0.10	-1.07	0.09	-1.46	CSA	IR
COMLAB	<1.00	bld	<1.00	bld	<1.00	bld	<1.00	bld	<1.00	bld	<1.00	bld	<1.00	bld	2.94	0.24	<1.00	bld	<1.00	bld	CSA	IR
COMLAB	0.04	0.60	0.03	-0.06	0.06	0.45	0.12	0.96	0.07	0.36	0.09	0.21	3.13	1.92	0.13	0.69	0.13	0.90	0.13	0.90	CSA	IR
COMLAB	0.03	-0.25	0.03	-0.06	0.07	-0.11	0.05	-0.07	0.09	-0.90	0.07	0.36	0.08	-0.36	2.99	0.68	0.11	-0.48	0.10	-0.87	CSA,FUS	IR
COMLAB	0.03	-0.25	0.04	0.70	0.06	-0.58	0.04	-0.59	0.08	-1.52	0.05	-0.99	0.06	-1.50	3.10	1.66	0.10	-1.07	0.11	-0.28	CSA	IR
COMLAB	0.02	-1.09	0.02	-0.83	0.06	-0.58	0.04	-0.59	0.09	-0.90	0.06	-0.31	0.07	-0.93	2.99	0.68	0.10	-1.07	0.10	-0.87	CSA	IR
COMLAB	0.03	-0.25	0.03	-0.06	0.10	1.29	0.03	-1.12	0.12	0.96	0.06	-0.31	0.11	1.35	2.95	0.33	0.13	0.69	0.10	-0.87	CSA	IR
COMLAB	0.04	0.60	0.04	0.70	0.08	0.36	0.08	1.49	0.11	0.34	0.06	-0.31	0.09	0.21	2.95	0.33	0.12	0.10	0.10	-0.87	CSA	IR
COMLAB	0.03	-0.25	0.03	-0.06	0.06	-0.58	0.05	-0.07	0.10	-0.28	0.06	-0.31	0.09	0.21	2.90	-0.11	0.11	-0.48	0.10	-0.87	CSA,FUS	IR
COMLAB	0.04	0.60	0.05	1.47	0.62	3.00	0.06	0.45	0.12	0.96	0.08	1.04	0.10	0.78	3.01	0.86	0.14	1.28	0.13	0.90	CSA	IR
COMLAB	0.10	3.00	0.13	3.00	0.18	3.00	0.13	3.00	0.18	3.00	0.17	3.00	0.16	3.00	2.93	0.15	0.21	3.00	0.22	3.00	CSA	IR
COMLAB	0.03	-0.25	0.02	-0.83	0.07	-0.11	0.05	-0.07	0.10	-0.28	0.06	-0.31	0.09	0.21	2.90	-0.11	0.12	0.10	0.11	-0.28	CSA	IR
COMLAB	0.04	0.60	0.05	1.47	0.07	-0.11	0.08	1.49	0.11	0.34	0.07	0.36	0.09	0.21	2.78	-1.18	0.12	0.10	0.11	-0.28	CSA	IR
COMLAB	<0.01	bld	<0.01	bld	0.02	-2.45	0.01	-2.16	0.04	-3.00	0.02	-3.00	0.03	-3.00	2.87	-0.38	0.05	-3.00	0.05	-3.00	CSA,FUS	IR
COMLAB	<0.05	bld	<0.05	bld	0.06	-0.53	<0.05	bld	0.11	0.09	0.06	-0.18	0.08	-0.36	2.85	-0.56	0.11	-0.66	0.09	-1.28	CSA	IR
COMLAB	0.05	1.45	0.05	1.47	0.09	0.83	0.06	0.45	0.11	0.34	0.08	1.04	0.08	-0.36	2.88	-0.29	0.11	-0.48	0.12	0.31	CSA	IR
COMLAB	0.19	3.00	0.11	3.00	0.17	3.00	0.13	3.00	0.21	3.00	0.17	3.00	0.31	3.00	3.03	1.04	0.18	3.00	0.22	3.00	CSA	IR
COMLAB	0.02	-1.35	0.01	-1.59	0.05	-1.00	0.03	-1.17	0.08	-1.39	0.04	-1.53	0.07	-1.04	2.87	-0.38	0.09	-1.60	0.10	-0.87	CSA	IR
COMLAB	0.04	0.60	0.04	0.70	0.07	-0.11	0.06	0.45	0.12	0.96	0.08	1.04	0.10	0.78	2.94	0.24	0.13	0.69	0.13	0.90	CSA	IR
COMLAB	0.03	-0.25	0.06	2.23	0.08	0.36	0.03	-1.12	0.11	0.34	0.06	-0.31	0.08	-0.36	2.72	-1.71	0.13	0.69	0.11	-0.28	CSA	IR
COMLAB	0.04	0.60	0.02	-0.83	0.07	-0.11	0.06	0.45	0.11	0.34	0.06	-0.31	0.09	0.21	2.92	0.06	0.12	0.10	0.12	0.31	CSA	IR
COMLAB	0.04	0.60	0.04	0.40	0.08	0.40	0.06	0.55	0.11	0.28	0.08	0.97	0.10	0.55	3.11	1.74	0.12	0.05	0.13	0.96	CSA	IR
COMLAB	0.04	0.60	0.03	-0.06	0.07	-0.11	0.05	-0.07	0.10	-0.28	0.06	-0.31	0.08	-0.36	2.97	0.51	0.12	0.10	0.12	0.31	CSA	IR
COMLAB	0.02	-1.09	0.02	-1.06	0.05	-0.91	0.03	-0.91	0.09	-1.21	0.04	-1.93	0.07	-1.10	3.12	1.83	0.09	-1.84	0.10	-1.17	CSA	IR
COMLAB	<0.005	bld	<0.005	bld	0.06	-0.58	0.04	-0.59	0.09	-0.90	0.10	2.39	0.18	3.00	2.88	-0.29	0.12	0.10	0.12	0.31	CSA	IR
COMLAB	nr	nr	0.04	0.70	0.08	0.36	0.07	0.97	0.11	0.34	0.07	0.36	0.09	0.21	2.65	-2.33	0.12	0.10	0.10	-0.87	CSA	IR
COMLAB	0.03	0.01	0.03	0.01	0.08	0.26	0.06	0.55	0.12	1.02	0.08	0.77	0.10	0.50	2.87	-0.38	0.13	0.75	0.13	1.13	CSA	IR
COMLAB	0.04	0.60	0.03	-0.06	0.08	0.36	0.07	0.97	0.11	0.34	0.06	-0.31	0.09	0.21	2.95	0.33	0.12	0.10	0.11	-0.28	CSA	IR
COMLAB	0.03	-0.25	0.02	-0.83	0.07	-0.11	0.05	-0.07	0.10	-0.28	0.07	0.36	0.09	0.21	2.96	0.42	0.12	0.10	0.12	0.31		
COMLAB	0.03	-0.25	0.03	-0.06	0.08	0.36	0.05	-0.07	0.11	0.34	0.07	0.36	0.10	0.78	2.87	-0.38	0.14	1.28	0.13	0.90	CSA	IR
COMLAB	0.05	1.45	0.06	2.23	0.11	1.76	0.09	2.02	0.14	2.19	0.10	2.39	0.12	1.92	2.68	-2.06	0.16	2.46	0.15	2.08	CSA	IR
COMLAB	<0.03	bld	<0.03	bld	0.03	-1.94	0.05	-0.07	0.09	-0.77	0.05	-1.33	0.03	-3.00	3.03	1.04	0.09	-1.84	0.09	-1.28	CSA	IR
COMLAB	0.04	0.60	0.05	1.47	0.09	0.83	0.10	2.54	0.11	0.34	0.08	1.04	0.12	1.92	2.90	-0.11	0.13	0.69	0.13	0.90	CSA	IR
MINELAB	0.02	-0.84	0.03	-0.21	0.07	-0.06	0.															



BECQUEREL CANADA - NEUTRON ACTIVATION ANALYSIS REPORT

NAA Results - Gold and Base Metals

		G912-1	G912-2	G912-3	G912-4	G912-5	G912-6	G912-7	G912-8	G912-9	G912-10	GLG912-1	GLG912-2	GLG912-3	GLG912-4	GLG912-5	GBM912-1	GBM912-2	GBM912-3	GBM912-4	GBM912-5	GBM912-6	GBM912-7	GBM912-8	GBM912-9	GBM912-10	GBM912-11	GBM912-12	GBM912-13	GBM912-14	GBM912-15	GBM912-16	
Sb	ppm	-0.2	1.3	0.2	-0.2	-0.2	1.2	0.5	0.6	0.8	1.5	-0.2	-0.2	-0.2	1.3	0.7	64	360	-0.2	-0.2	0.2	0.2	125	1.8	1.1	2.9	7.1	0.5	1	36	9.3	0.5	
As	ppm	-0.5	0.8	2	1	-0.5	9.7	4.6	5.5	5	8	-0.5	0.5	1	10.2	5.4	119	370	1	0.5	2.4	1.2	371	58	15	25	57	92	71	370	40	75	
Ba	ppm	480	430	470	500	380	220	340	300	350	400	500	250	280	270	330	350	460	430	250	400	450	380	1100	150	-100	350	100	-100	340	300	-100	
Br	ppm	-0.5	0.8	0.5	-0.5	0.5	2.6	1.8	1.9	0.8	0.6	1.2	-0.5	0.3	3.2	1.9	0.6	-0.5	1.1	-0.5	-0.5	0.9	-0.5	-0.5	2.6	4.3	-0.5	1.6	3.2	0.5	0.5	2.7	
Cd	ppm	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	10	-5	-5	-5	-5	-5	20	-5	-5	-5	-5	-5	-5	50	80	-5	
Ce	ppm	42	39	43	41	34	33	35	33	34	36	44	22	23	34	32	38	51	46	22	43	41	36	114	35	25	35	5	6	40	36	-5	
Cs	ppm	2.5	2.6	2.7	2.6	2.1	1.3	1.5	1.9	1.4	1.7	2.4	-0.5	-0.5	1.3	1.3	2.2	1.7	2.4	-0.5	2.6	2.6	2	3.8	-0.5	0.6	1.3	-0.5	-0.5	7.2	2	0.5	
Cr	ppm	85	100	90	104	131	117	129	129	85	84	16	183	190	119	116	117	22	18	183	89	103	111	196	4900	187	98	945	830	540	94	870	
Co	ppm	22	23	24	24	29	13	21	21	27	27	10	39	40	12	19	36	34	9	38	23	24	44	28	270	2	80	670	530	130	74	778	
Eu	ppm	1.4	1.2	1.2	1.3	1.4	0.8	1	1	1.2	1.1	0.7	1.7	1.8	0.7	1.1	1.4	0.8	0.8	1.8	1.3	1.3	1.3	1.8	0.6	0.1	1.4	0.2	0.2	0.8	1.4	0.3	
Au	ppb	7800	2550	2100	1900	350	4200	410	525	5500	6300	6	1	1	1300	220	1050	1000	-1	-1	2300	2090	510	500	90	-1	2500	100	660	5500	2000	66	
Hf	ppm	4	4	3.9	4	3.7	8.2	6	6	3.7	3.7	3.7	3.6	3.6	8	6	3.7	11.5	3.7	3.5	3.8	3.9	3.5	7.3	2	14.5	5.5	-0.5	0.6	5	3.6	0.7	
Ir	ppb	-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	35	25	-10	-10	50
Fe	%	5.23	5.89	5.17	5.2	6.25	9.25	7.63	7.92	5.16	5.12	2.73	8.44	8.77	9.18	7.8	6.05	5.25	2.74	8.58	5.16	5.14	6.42	5.8	14	16.5	8.8	16.4	14.4	15.1	6.95	19	
La	ppm	23	22	23	23	18	14	18	15	18	19	25	10	10	15	15	21	28	24	10	22	23	19	56	10	5	19	2	2	21	20	2	
Lu	ppm	0.4	0.4	0.4	0.4	0.5	0.3	0.4	0.4	0.5	0.4	0.4	0.5	0.4	0.3	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.2	0.2	0.4	0.1	0.1	0.4	0.4	0.1	
Mo	ppm	15	19	21	16	8	20	10	12	21	33	-5	-5	-5	25	16	10	34	-5	-5	20	16	73	70	-5	22	140	-5	-5	18	21	-5	
Ni	ppm	20	26	26	30	32	18	25	24	70	104	13	35	36	21	21	129	19	11	34	24	29	51	2270	3770	8	42	29000	23500	650	42	39500	
Rb	ppm	120	110	115	116	80	80	80	80	110	110	175	10	10	87	80	95	150	170	-10	114	107	88	177	10	20	65	-10	15	145	85	-10	
Sm	ppm	4.8	4.5	4.7	4.5	4.7	3	3.8	3.8	4.4	4.5	4	5.2	4.6	3	3.8	4.4	4.6	3.9	5	4.6	4.4	4.4	8.7	2.4	0.7	4.5	0.6	0.7	3.7	4.5	0.6	
Sc	ppm	18.5	20.5	18.8	20.4	24.7	15	20.4	20.6	18.1	17.8	8	32.2	33.5	14.7	19	22.4	13.1	8	32.4	18.4	20.3	22.3	19	19.5	12.5	21.2	8.4	10.4	14.1	19.4	9.4	
Se	ppm	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	3	3	-2	-2	-2	-2	7	-2	-2	-2	14	13	13	8	7	14	
Ag	ppm	-2	6	4	3	-2	3	-2	3	5	7	-2	-2	-2	4	2	8	8	1	1	3	3	18	2	1	2	8	2	2	17	2	1	
Na	%	2.36	2.39	2.43	2.5	2.38	1.32	1.95	1.85	2.2	2.2	2.2	2.05	2.09	1.34	1.78	2.46	2.58	2.25	2.06	2.4	2.49	2.35	2.16	0.45	0.02	2.14	0.3	0.41	1.05	2.15	0.6	
Ta	ppm	1.6	1	1.4	1	0.8	1.8	1.3	1.3	1.3	1.2	1.9	0.5	0.4	1.9	1.5	1.2	1.5	2	0.5	1.2	1.1	1.1	0.8	0.2	2.6	0.8	0.1	0.1	1.3	1	0.1	
Te	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
Tb	ppm	1	0.9	0.8	1.1	1	0.6	0.7	0.8	0.9	0.9	0.7	1	1.2	0.5	0.9	0.9	0.8	0.7	1.2	0.9	0.9	0.9	1.1	-0.5	0.5	0.8	-0.5	-0.5	1.1	0.8	-0.5	
Th	ppm	16.5	15.3	16	16	10.7	43.8	28.3	28.2	12.3	12.4	19.7	1.3	1.1	44	27	12.6	18.5	20.5	1.3	16	15	11.2	17.5	1.8	86	8.7	-0.5	-0.5	12.8	12.2	-0.5	
Sn	ppm	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200
W	ppm	-2	-2	-2	-2	-2	-2	-2	-2	-2	2	-2	-2	-2	-2	2	36	-2	-2	-2	-2	-2	3	3	4	-2	-2	-2	-2	24	-2	-2	
U	ppm	8.5	7.6	8	7.7	5.5	8	6.3	6.6	8	8.3	12.9	-0.5	-0.5	8.3	6.8	5.9	10.1	11.8	-0.5	7.9	7	5.4	2.2	1	6.2	5.5	-0.5	-0.5	2.7	7.3	-0.5	
Yb	ppm	2.8	2.8	2.7	2.7	2.2	2.2	2.5	3	3	3	3.1	3	3	2.1	2.7	2.9	3	2.9	3	2.7	2.6	2.7	3.6	1.3	1	2.7	-0.5	-0.5	1.8	2.6	-0.5	
Zn	ppm	80	76	104	96	100	50	64	74	450	660	50	120	130	45	68	3600	1300	50	120	110	95	9800	1085	500	10	1000	80	240	14000	920	70	
Zr	ppm	-500	-500	-500	-500	-500	-500	-500	-500	-500	-500	-500	-500	-500	-500	-500	-500	-500	-500	-500	-500	-500	-500	-500	-500	-500	-500	-500	-500	-500	-500	-500	

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.

The laboratory didn't report their results for Aqua Regia analysis.

5 samples were sent to the laboratory for Low Level Gold analysis. The laboratory reported their Low Level Gold results, and these contained 2 outliers.

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 no outliers.

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

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

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

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

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

The laboratory reported for Cobalt 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.

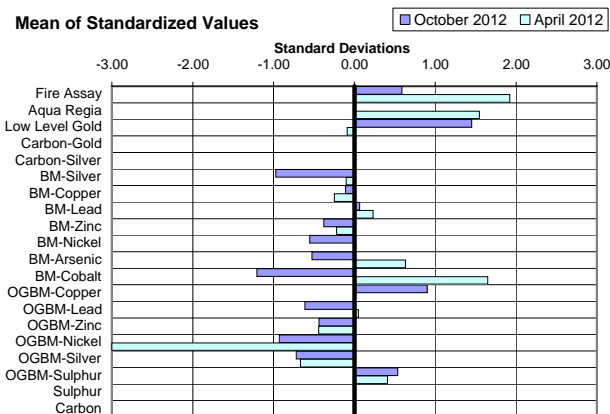
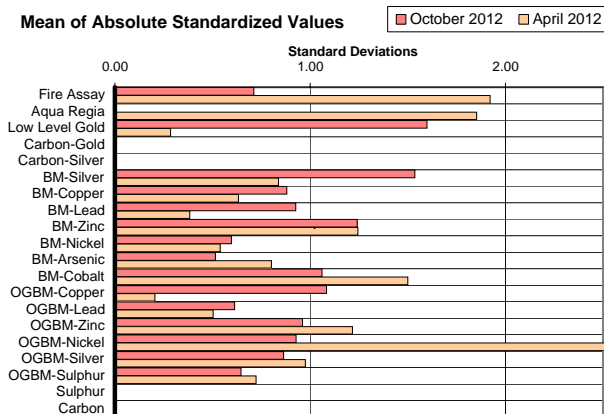
The laboratory reported for Silver content, and these contained no outliers.

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

SULPHUR SAMPLES

The laboratory were not sent any Sulphur samples for analysis.

ERROR GRAPHS



FURTHER INFORMATION

The samples analysed in this survey are available for purchase. Please contact us or visit www.geostats.com.au for a complete listing of available materials.

To discuss this report, please contact us on +618 9314 2566, or srr@geostats.com.au