African Mineral Standards
REFERENCE MATERIALS FOR AFRICAN ORES

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African Mineral Standards

Certificate of Analysis

Copper Sulphide Ore
Reference Material from Lonshi
Democratic Republic of the Congo

AMIS0072

Recommended Concentration and two "Between Laboratory" Standard Deviations

*Certified Concentrations**

Cu (F)**	1.63	±	0.075	%
Cu (P)**	1.65	±	0.085	%
Cu (T/ICP)**	1.65	±	0.095	%
Specific Gravity	2.79	±	0.24	g/cc

Provisional Concentrations

Ag (T)	3.5	±	0.9	ppm
Au (Pb Collection)	0.06	±	0.02	ppm
Co (P)	9.5	±	1.6	ppm
Co (T/ICP)	11.0	±	2.2	ppm
Ni (T/ICP)	38.5	±	6.4	ppm
Ni (XRF)	39.6	±	11.5	ppm
U (T/ICP)	3.8	±	0.7	ppm
Zn (T/ICP)	148	±	28	ppm

Indicated Means

As (T/ICP)	5.9	ppm
Pb (T/ICP)	13.9	ppm

Additional uncertified major and trace element data is on p2 and in the appendix of this certificate.

** *N.B. Appologies. The two "Between Laboratory" standard deviations on the original certificate were incorrectly stated at 0.75%, 0.85%and 0.95%. That was incorrect.*

Intended Use: AMIS0072 is suitable to monitor the accuracy of a single analysis of copper ore. The material can be used for routine quality control by inserting within a batch of samples, method development and for the calibration of equipment.

The recommended mean and "Between Lab" standard deviations for this standard reflect the average results from the laboratories that participated in the round robin. Slight variations in analytical procedures between laboratories will reflect as slight biases to the recommended concentrations and this is acceptable. Good laboratories however will report results within the two standard deviation levels with a failure of <10 %.

Origin of Material: This standard was made using sulphide ore sourced from the Lonshi Copper Mine which is owned and operated by Compagnie Miniere du Sakania sprl (Comisa), a wholly owned Congolese subsidiary of First Quantum Minerals Ltd (FQM). The mine is situated in the Congo Pedicle region of the Province of Katanga, Democratic Republic of the Congo.

Lonshi is a sediment hosted, structurally controlled deposit of Copperbelt type. In contrast to other Copperbelt deposits, Lonshi is interpreted to occur at or near the upper contact of the Upper Roan Group where a sheared and tectonised clastic unit, the Lonshi Conglomerate, is in thrust contact with overlying carbonaceous, silty, dolomitic marbles. This folded and thrusted contact is the locus for mineralization which occurs in both the conglomerate and the intensely weathered dolomite.

(for more information, refer to Form 43-101F1 Technical Report, The Lonshi Copper Mine, Katanga Province, Democratic Republic of the Congo, March 26th 2003, Alan J. Stephens Vice President, Exploration, and G. Clive Newall, President, First Quantum Minerals Ltd.)

Mineral and Chemical Composition: Primary sulphide mineralization, mainly chalcopyrite, occurs as carbonate clast replacement in the conglomerate, and as disseminations and rare veinlets in both conglomerate and dolomite. Supergene enrichment and subsequent deep oxidation, has resulted in complete carbonate destruction in the dolomite, within the weathering zone, and formation of chalcocite now largely oxidized to malachite and black Cu oxide minerals.

Fifteen laboratories returned additional major and trace element data. This has not been certified but the iterated statistics are presented below and in the appendix. The major element chemistry was largely tested using X-Ray Fluorescence techniques. This data can be used to assist with instrument calibration.

	Mean	2SD	RSD%	n	unit
Al_2O_3	4.1	0.1	1.4	86	%
BaO	0.11	0.02	9.3	29	%
CaO	1.9	0.1	2.2	87	%
Cr_2O_3	0.07	0.03	21.4	71	%
Fe_2O_3	3.0	0.1	1.3	78	%
K_2O	1.4	0.1	2.0	78	%
LOI	4.7	0.5	5.5	79	%
MgO	2.4	0.1	1.5	64	%
MnO	0.15	0.01	3.7	78	%
Na_2O	0.04	0.02	30.3	40	%
P_2O_5	0.09	0.02	9.9	87	%
S	0.22	0.02	4.4	53	%
SiO_2	79.8	1.2	0.8	77	%
TiO_2	0.41	0.02	2.0	86	%

Appearance: The material is a very fine Greyish Orange Pink powder (Corstor Colour Gauge - 5YR 7/2).

Method of Preparation: The material was crushed, dry-milled and air-classified to 100% <54um. Wet sieve particle size analysis of random samples confirmed the material was 100% <54um. It was then blended in a bi-conical mixer, systematically divided and then sealed into 1kg Laboratory Packs. Explorer Packs are subdivided from the Laboratory packs as required. Samples were randomly selected for homogeneity testing and third party analysis. Statistical analysis of both homogeneity and the consensus test results were carried out by an independent statistician.

Methods of Analysis:

1. Cu, Fusion AAS or ICP-OES.
2. Multi-acid digest multi-element scan - (to include Cu, Co, Ni, Pb, As, Zn, Ag, U.). ICP-OES or ICP-MS.
3. Aqua regia digest - Cu, Co. ICP-OES or ICP-MS.
4. Pressed pellet multi-element scan - (to include Cu, Co, Ni, Pb, As, Zn, Ag, U.). XRF.
5. Fusion (Majors). XRF.
6. Au. Pb collection ICP-OES or ICP-MS.
7. SG. Gas pycnometer.

Method of Certification: Twenty one laboratories were each given eight randomly selected packages of sample. Results from the nineteen laboratories that reported back were used for the determinations in the tables below

The final limits were calculated after first determining if all data was compatible within a spread normally expected for similar analytical methods done by reputable laboratories. Data from any one laboratory was removed from further calculations when the mean of all analyses from that laboratory failed a t test of the global means of the other laboratories. The means and standard deviations were calculated using all remaining data. Any analysis that fell outside of the mean ±2 standard deviations was removed from the ensuing data base. The mean and standard deviations were again calculated using the remaining data. This method is different from that used by Government agencies in that the actual “between-laboratory” standard deviation is used in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses. The limits can therefore be used to monitor accuracy from individual analyses, unlike the Confidence Limits published on other standards. Standards with an RSD of near or less than 5 % are certified, RSD’s of between near 5 % and 15 % are Provisional, and RSD’s over 15 % are Indicated.

Participating Laboratories: (Not in the same order as in the table of assays)

1. ACME Analytical Laboratories Ltd., (Canada).
2. Activation Laboratories Ltd., (ActLabs, Ancaster, ON, Canada).
3. Alex Stewart International Corporation (Zambia)
4. ALS Chemex South Africa (Pty) Ltd.
5. ALS Chemex, (Vancouver, Canada).
6. Amdel Limited, (Perth, Australia).
7. Anglo Research (Crown Campus, South Africa).
8. Assayers Canada, (Vancouver).
9. Genalysis Laboratory Services (Pty) Ltd., (Australia).
10. Geoscience Laboratories, (Geo Labs, Sudbury, Canada).
11. Geoservice Centre, Geolaboratory, (GTK. Finland).
12. Nkomati JV Laboratory
13. OMAC Laboratories (Ireland).
14. Pt Intertek Utama Services (Intertek, Indonesia)
15. Set Point Laboratories (Pty) Ltd (South Africa)
16. SGS Lakefield Research (Canada)
17. SGS Lakefield Research Africa (Pty) Ltd. (Joburg, South Africa)
18. SGS Welshpool (Australia).

19. Ultra Trace (Pty) Ltd. (Australia).

Assay Data: Data as received from the laboratories for the important certified elements listed on p1 is set out below. A proficiency report has been sent to the managers of the participating laboratories. Additional data from this round robin is available on request.

Lab Code	Ag T/ICP ppm	As T/ICP ppm	Au Pb coll ppm	Co P ppm	Co T/ICP ppm	Cu F ppm	Cu P ppm	Cu T/ICP ppm	Ni T/ICP ppm	Ni XRF ppm	Pb T/ICP ppm	SG g/cc	U T/ICP ppm	Zn T/ICP ppm
A	3.00		0.05			17450	15850	16500	50.00					200
A	3.00		0.07			16300	16400	16400	30.00					190
A	4.00		0.08			16050	16400	16500	60.00					130
A	2.00		0.04			16000	16400	16500	40.00					210
A	3.00		0.07			16400	16450	16400	50.00					180
A	3.00		0.06			16000	16200	16700	50.00					190
A	4.00		0.07			16400	16500	16600	40.00					180
A	3.00		0.05			16250	16400	16700	20.00					180
B	2.90		0.05	9.00	9.00	16650	16800	16750	33.00	40.00	11.00	2.73		128
B	3.50		0.05	9.00	9.00	16300	16900	16600	38.00	30.00	13.00	2.75		146
B	3.40		0.07	9.00	9.00	15900	17300	16850	37.00	40.00	13.00	2.74		146
B	3.50		0.06	9.00	10.00	16650	16700	16600	37.00	40.00	15.00	2.74		143
B	3.30		0.06	9.00	9.00	16200	17400	16750	36.00	30.00	11.00	2.75		142
B	3.40		0.08	9.00	10.00	16100	17200	16800	40.00	30.00	12.00	2.80		151
B	3.60		0.05	11.00	10.00	16450	16600	16750	38.00	30.00	13.00	2.77		146
B	3.40		0.08	8.00	9.00	16450	17300	16300	36.00	40.00	12.00	2.76		145
C				4.00	12.00	15900		16200	32.00				3.88	156
C				4.00	13.00	15900		16100	31.00				3.77	162
C				4.00	13.00	16000		15800	30.00				3.77	161
C				4.00	13.00	16000		16200	33.00				4.14	156
C				4.00	12.00	16000		15600	36.00				4.42	151
C				4.00	13.00	16000		17000	35.00				4.32	168
C				4.00	12.00	16100		15500	36.00				4.42	151
C				4.00	12.00	15800		15500	32.00				3.88	150
D			0.06									2.92		
D			0.07									2.96		
D			0.07									2.96		
D			0.06									2.97		
D			0.07									2.94		
D			0.06									2.93		
D			0.06									2.96		
D			0.07									2.95		
E	3.00		0.06	9.00	13.00	16500	16100	16000	38.00			2.75		140
E	3.00		0.06	9.00	12.00	16100	16000	16000	40.00			2.77		140
E	3.00		0.06	9.00	12.00	15900	16400	16000	38.00			2.73		150
E	3.00		0.06	9.00	11.00	16200	16200	16000	31.00			2.79		140
E	3.00		0.07	9.00	11.00	16400	16100	16000	32.00			2.78		130
E	3.00		0.06	9.00	11.00	16000	16400	16000	32.00			2.73		140
E	3.00		0.05	9.00	11.00	16400	16700	16000	34.00			2.78		140
E	3.00		0.06	10.00	12.00	16300	16300	16000	36.00			2.81		140
F	4.10		0.05	8.00	11.00	16000	17100	17100	41.00		20.00	3.01	3.67	165
F	4.00		0.05	8.00	11.00	15900	17600	17200	40.00		20.00	3.00	3.51	163
F	4.10		0.05	8.00	11.00	15900	17900	17100	42.00		20.00	3.04	3.58	166
F	4.10		0.06	8.00	11.00	16000	17400	16900	42.00		20.00	3.05	3.65	173
F	4.10		0.06	9.00	11.00	17000	17900	17300	42.00		20.00	2.94	3.59	168
F	4.00		0.05	8.00	11.00	16000	17200	17000	42.00		20.00	3.06	3.47	169
F	4.10		0.06	8.00	12.00	16000	17300	17200	44.00		30.00	3.04	3.52	173
F	4.10		0.05	8.00	11.00	17000	16900	17100	43.00		20.00	2.97	3.52	169
G	3.70		0.06					17000	34.00	48.00				140
G	3.70		0.06		10.00			17000	34.00	48.00				130
G	3.60		0.06		12.00			17000	34.00	48.00				140
G	3.80		0.05		12.00			17000	33.00	48.00				130
G	3.80		0.07		12.00			16000	35.00	48.00				130
G	3.60		0.06		12.00			16000	35.00	49.00				130
G	3.90		0.06		11.00			16000	36.00	48.00				130
G	3.80		0.06		13.00			16000	35.00	48.00				140
H	3.50	7.00	0.06	12.00	15.00	16700	16600	16500	42.00		13.00	2.68	3.90	154
H	3.50	6.00	0.06	10.00	10.00	16600	16400	16400	44.00		15.00	2.63	3.90	150
H	4.00	4.00	0.06	10.00	10.00	16600	16100	16600	46.00		14.00	2.64	3.80	156
H	3.50	6.00	0.06	10.00	10.00	17000	16200	16900	42.00		14.00	2.63	3.70	156
H	3.50	6.00	0.06	12.00	10.00	16600	16200	16600	42.00		13.00	2.63	3.70	154
H	3.50	4.00	0.06	10.00	10.00	16700	16600	17100	42.00		13.00	2.67	4.00	152
H	3.50	4.00	0.06	12.00	10.00	16600	16900	16900	42.00		14.00	2.65	3.80	156
H	3.50	6.00	0.06	10.00	10.00	17000	16400	16700	42.00		15.00	2.69	3.90	158
I	3.60	9.31	0.05	11.00	5.60	15300		15089	50.27	42.50	14.55	2.80	1.83	135
I	3.60	10.26	0.04	10.00	7.76	15606		15958	54.96	39.80	12.56	2.78	1.50	132
I	2.40	9.41	0.05	9.00	8.16	15708		16590	50.63	38.10	12.20	2.78	1.60	137
I	4.70	9.73	0.04	7.00	8.16	15708		15800	53.37	43.50	17.06	2.78	1.63	133
I	3.80	10.27	0.05	7.00	7.52	15708		15879	55.85	37.20	10.76	2.77	1.83	134
I	2.30	11.24	0.05	10.00	10.72	15504		16511	51.60	39.10	8.01	2.78	1.92	133
I	6.30	10.24	0.05	10.00	10.08	15708		16432	47.88	40.60	13.91	2.78	2.14	136
I	2.60	9.76	0.06	10.00	11.20	15606		16353	58.77	40.70	9.63	2.77	2.33	131

Lab Code	Ag T/ICP ppm	As T/ICP ppm	Au Pb coll ppm	Co P ppm	Co T/ICP ppm	Cu F ppm	Cu P ppm	Cu T/ICP ppm	Ni T/ICP ppm	Ni XRF ppm	Pb T/ICP ppm	SG g/cc	U T/ICP ppm	Zn T/ICP ppm
J	2.70	3.00	0.05	9.00	9.60	15964	16120	15684	42.00	37.00	13.00	2.81	3.36	161
J	3.00	4.00	0.06	9.00	9.40	16189	16921	15684	42.00	36.00	13.00	2.81	3.31	165
J	2.80	4.00	0.07	10.00	9.70	16190	16496	15136	39.00	35.00	13.00	2.80	3.29	150
J	3.00	5.00	0.05	10.00	9.50	15993	15859	15395	40.00	34.00	14.00	2.80	3.32	151
J	2.60	3.00	0.06	9.00	9.60	16101	16044	15529	39.00	37.00	13.00	2.81	3.51	151
J	2.90	4.00	0.05	9.00	9.40	15922	16079	15924	40.00	35.00	13.00	2.83	3.29	152
J	3.00	6.00	0.05	9.00	9.40	15986	16512	15397	38.00	37.00	14.00	2.82	3.29	148
J	2.90	4.00	0.06	9.00	9.40	15904	16239	15977	40.00	36.00	13.00	2.82	3.21	153
K	3.60	7.00	0.07	10.00	12.00	16500	16210	18685	34.40		12.90	2.51	3.90	182
K	3.60	9.00	0.05	10.00	11.00	16400	16230	18187	39.00		14.20	2.56	4.00	178
K	3.80	9.00	0.07	10.00	13.00	16300	16510	18232	38.20		13.40	2.49	4.00	170
K	3.80	7.00	0.06	10.00	12.00	16800	16380	17990	42.00		14.00	2.50	4.00	168
K	3.50	10.00	0.06	10.00	12.00	16700	16060	17561	36.60		12.40	2.54	3.90	169
K	3.40	11.00	0.06	10.00	12.00	16800	16150	17878	39.30		15.90	2.54	3.90	173
K	3.90	7.00	0.09	10.00	12.00	16100	16120	17883	42.80		14.20	2.48	3.80	171
K	3.60		0.06	10.00	12.00	16300	16060	17856	38.50		12.10	2.59	3.80	162
L			0.05	11.00	10.80	16300		16600	41.40	43.00	12.00	2.75	4.20	135
L			0.06	12.00	11.00	15700		16600	40.90	39.00	16.00	2.84	4.10	130
L			0.07	12.00	10.80	16100		16500	38.90	43.00	15.00	2.72	4.00	127
L			0.07	12.00	10.10	16400		16800	40.50	41.00	15.00	2.72	4.30	127
L			0.06	11.00	11.10	16300		16900	43.60	43.00	17.00	2.77	4.10	136
L			0.05	10.00	11.40	16700		16300	42.90	38.00	16.00	2.79	4.30	136
L			0.06	11.00	10.30	17700		16400	41.20	43.00	14.00	2.75	7.70	126
L			0.05	10.00	11.40	16200		16200	43.30	40.00	16.00	2.75	9.30	138
M					9.96			16200			19.91			139
M					10.00			16000			29.99			130
M					9.99			15300			29.97			140
M					9.98			15300			19.97			140
M					9.98			15900			29.93			130
M					10.00			15500			29.99			130
M					9.98			16300			29.94			140
M					9.91			16100			29.97			130
N				9.95			17502							
N				6.83			17360							
N				12.86			16659							
N				10.06			16424							
N				7.98			17154							
N				6.79			17003							
N				6.59			16976							
N				6.64			17040							
O	3.78	3.78	0.09	9.89	10.88		16589	16446	38.53		12.06		3.28	156
O	3.85	4.03	0.07	9.71	10.74		16491	16679	39.23		12.08		3.28	158
O	3.81	3.84	0.06	9.86	10.95		16653	16735	38.88		12.16		3.25	158
O	3.74	4.24	0.06	10.12	11.25		16363	16743	38.95		12.74		3.29	161
O	3.74	4.18	0.07	9.86	11.00		16117	16759	39.16		12.20		3.28	159
O	3.76	4.20	0.11	10.52	11.13		16246	16486	39.15		12.31		3.26	157
O	3.78	4.02	0.06	9.79	10.78		16530	16700	39.11		12.47		3.27	157
O	3.71	3.81	0.07	9.64	10.91		16246	16654	38.76		12.31		3.29	162
P		4.30	0.06		10.20	16600		15000	34.90	48.00	12.70			158
P		3.81	0.05		10.10	16700		15000	33.30	42.00	12.70			142
P		3.47	0.06		10.20	16800		15100	34.00	41.00	12.80			141
P		3.75	0.07		10.30	16800		14900	35.10	45.00	13.50			143
P		3.60	0.05		11.50	16700		15100	34.00	46.00	12.70			140
P		4.00	0.05		11.10	16800		15100	34.30	47.00	15.30			146
P		5.89	0.06		9.92	16600		14900	32.00	87.00	12.00			141
P		4.10	0.05		10.80	16800		15100	35.50	43.00	13.20			149
Q			0.05	8.45	11.40	15869			38.00	32.00	13.50		3.72	137
Q			0.07	8.64	11.20	16577			39.00	34.00	13.60		3.63	137
Q			0.05	8.92	11.20	16922			38.00	32.00	13.00		3.63	132
Q			0.05	8.77	10.80	16237			39.00	31.00	13.40		3.71	136
Q			0.06	8.55	11.10	16702			39.00	32.00	13.00		3.69	138
Q			0.06	9.09	11.50	15959			40.00	34.00	13.30		3.66	139
Q			0.05	8.89	11.40	16238			42.00	32.00	13.80		3.92	134
Q			0.05	8.90	10.90	16117			40.00	33.00	13.20		3.74	137
R	4.00	9.00	0.06		13.00			17000	39.00		14.00			182
R	3.90	9.00	0.09		13.00			16900	38.00		14.00			180
R	3.80	10.00	0.07		12.00			17000	38.00		13.00			174
R	3.80	8.00	0.06		12.00			16900	38.00		15.00			178
R	4.00	7.00	0.05		12.00			16800	37.00		15.00			176
R	3.80	7.00	0.06		13.00			17000	41.00		12.00			187
R	3.90	7.00	0.06		12.00			17200	38.00		15.00			178
R	4.10	8.00	0.07		12.00			17200	39.00		14.00			179
S														
S														
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S														
T	4.70	6.10	0.06	10.00	13.20	15300			39.90		7.40		4.30	160
T	4.90	6.80	0.06	10.00	14.10	15500			42.50		10.80		4.80	171
T	4.80	6.50	0.07	10.00	14.70	15700			41.80		13.10		4.10	168
T	4.80	6.80	0.05	10.00	14.30	15300			41.10		11.10		4.10	163
T	4.80	6.40	0.05	10.00	14.70	15200			42.10		9.40		4.20	170
T	4.70	6.40	0.06	10.00	14.70	15400			40.90		10.40		4.10	164
T	5.00	6.20	0.05	10.00	13.90	15800			41.90		8.70		4.10	170
T	5.20	6.90	0.06	10.00	14.90	15600			42.90		8.50		4.40	172

Availability: This product is available in Laboratory Packs containing 1kg of material or in Explorer Packs containing client specified weights of material (from 50g up to 250g). Laboratory Packs are sealed bottles delivered in sealed foil pouches. Explorer Packs contain material in standard geochem envelopes placed into foil pouches that are nitrogen flushed and vacuum sealed.

Legal Notice: This certificate and the reference material described in it have been prepared with due care and attention. However AMIS, Set Point Technology (Pty) Ltd, Mike McWha, Dr Barry Smee and Smee and Associates Ltd; accept no liability for any decisions or actions taken following the use of the reference material.

19 January 2008

Certifying Officers:

African Mineral Standards:_____

Mike McWha
BSc (Hons), FGSSA, MAusIMM, Pr.Sci.Nat

Geochemist:_____

Barry W. Smee
BSc, PhD, P.Geo, (B.C.)

APPENDIX

Additional trace element statistics.

	Mean	2SD	RSD%	n	unit
Al M/ICP	2.16	0.20	4.5	40	ppm
Au Pb coll*	57	15	13.1	60	ppb*
Ba M/ICP	948	116	6.1	55	ppm
Be M/ICP	0.76	0.21	13.6	32	ppm
Bi M/ICP	0.83	0.21	12.4	32	ppm
Ca M/ICP	1.37	0.13	4.6	37	ppm
Ce M/ICP	29	7	11.8	40	ppm
Cr M/ICP	412	145	17.6	48	ppm
Cs M/ICP	1.50	0.67	22.4	30	ppm
Dy M/ICP	1.65	0.31	9.3	24	ppm
Eu M/ICP	0.56	0.18	16.0	24	ppm
Fe M/ICP	2.18	0.12	2.8	40	ppm
Ga M/ICP	6.00	2.07	17.3	40	ppm
Gd M/ICP	2.03	0.44	10.9	24	ppm
Hf M/ICP	1.76	0.33	9.3	32	ppm
Ho M/ICP	0.31	0.09	14.0	24	ppm
In M/ICP	0.04			14	ppm
K M/ICP	1.19	0.12	5.2	45	ppm
La M/ICP	15	3	10.4	40	ppm
Li M/ICP	31	3	4.9	40	ppm
Lu M/ICP	0.13	0.04	14.6	16	ppm
Mg M/ICP	1.35	0.19	7.1	48	ppm
Mn M/ICP	1157	113	4.9	47	ppm
Mo M/ICP	3.26	0.95	14.5	39	ppm
Na M/ICP	341	102	14.9	38	ppm
Nb M/ICP	6.66	4.82	36.2	47	ppm
Nd M/ICP	13	3	10.8	24	ppm
P M/ICP	427	80	9.3	48	ppm
Pr M/ICP	3.43	0.57	8.4	24	ppm
Rb M/ICP	40	10	12.5	40	ppm
Sb M/ICP	7.17	1.12	7.8	38	ppm
Sc M/ICP	5.17	0.85	8.2	42	ppm
Sm M/ICP	2.49	0.57	11.5	24	ppm
Sn M/ICP	1.75	0.33	9.4	40	ppm
Sr M/ICP	44	9	9.8	54	ppm
Ta M/ICP	0.32	0.30	47.4	40	ppm
Tb M/ICP	0.29	0.07	11.6	24	ppm
Th M/ICP	3.89	0.49	6.3	30	ppm
Ti M/ICP	2177	649	14.9	48	ppm
Tl M/ICP	0.20	0.04	9.9	31	ppm
Tm M/ICP	0.13	0.03	13.3	24	ppm
U M/ICP	3.87	0.97	12.6	62	ppm
V M/ICP	53	13	12.5	56	ppm
W M/ICP	0.57	0.17	15.2	38	ppm
Y M/ICP	8.62	3.73	21.6	53	ppm
Yb M/ICP	0.89	0.21	12.1	23	ppm
Zr M/ICP	70	27	19.2	47	ppm

* NB - These ppb results are for information purposes. Based on the lab results Au is officially certified as “Provisional” 0.06± 0.02 g/t.