

2013 Technical Exploration Report For The Gus Property
Nelson M.D., B.C.

Title Page

BC Geological Survey
Assessment Report
34166

Property Name Gus
Mining Division Nelson
Location Latitude 49 02 54, Longitude 117 14 33
NTS Map Sheet 82 F/3, BCGS 82F004
Claim Owner M. A. Kaufman, FMC 113753
Operators M. A. Kaufman, Jack Denny, Robert Denny
Author of report M. A. Kaufman
Report Year 2013
Claims worked on 504800, 504804
General Work Geochemical
Categories
Work Reported soils geochemical Survey, revision of digital maps

Pertinent related Assessment Reports: 33328, 32681, 27915, 27526, 27249, 26981, 26674, 26408, 25704, 25090, 24748, 24199, 23711, 23438, 11452 and 10842.

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Gus Claim Group, Nelson Mining Division
British Columbia

Introduction/ Geological Summary

The Gus Claim Group, which occupies 6.35 sq. km. in the Kootenay Arc region, is situated approximately 7.5 km NE of the Canada - U.S.A. Nelway border crossing. The west margin of the claims is along the west shore of Rosebud Lake. Access is by the Rosebud Lake Road, and then by a rough logging road starting just north of Rosebud Lake and going SE to the Lone Silver Mine, and then ENE to the Davne Mine. Beyond the Davne Mine area the road is overgrown, so that the Lucky Strike Mine can now only be reached by walking. One must have a key to access the logging road beyond a locked gate at the north end of Rosebud Lake. Otherwise, access is by walking only, or by the rough BC Hydro power line road south of Rosebud Lake.

Past Assessment reports provide detailed geological descriptions of the property geology and the three mines within it. Please refer to 2011, Rept. 32681 for comprehensive information. To briefly recapitulate, the physiography of the property is characterized by northern and southern upland areas separated by a broad, northeasterly trending central valley. Bedrock is buried under moderate to deep glacial overburden, with only minor outcrop. The area is underlain by the Paleozoic Active, Nelway and Laib sedimentary formations, with thick sections of carbonaceous, silty limestone comprising the Nelway formation, and limey argillites dominating the Active formation. The region is traversed by the northeasterly striking, southerly dipping Argillite and Black Bluff thrust faults along with transverse faults cutting the thrusts. The Black Bluff fault marks the unconformable contact between the overlying, older Nelway formation and the younger Active formation. A small Tertiary, Coryell alkalic plug, and similar sills or dykes cut the sediments, which are overturned as a result of the thrust faults.

Three mines on the property, Lone Silver, Davne and Lucky Strike, all located in the southern upland, have produced small amounts of very high grade silver/gold ore associated with galena, tetrahedrite, sphalerite and lesser pyrite in fault-vein and replacement deposits. The mines appear

to be aligned roughly on the trend of the Black Bluff fault. The past productive Jersey lead-zinc and adjacent Emerald tungsten mines are located approximately 6.4 kilometres to the north of the Gus property mines. At the Lone Silver mine, which is located on the Black Bluff fault, there appears to be fine grained, difficult to see mineralization associated with dolomitic breccia and graphitic altered zones. Also, sporadic float and some small outcrops in what we call the East Gold Anomaly exhibit anomalous to high grade Au in limey argillite, which does not appear to be mineralized even by hand lens observation.

2013 Work

2013 work consisted of follow-up soils geochemical surveys, both conventional B horizon and Ah horizon sampling. The B Horizon sampling was done on the northern upland part of the property to follow up similar work done in 2011 and 2012. The shallow Ah horizon work was concentrated both in the valley area and the southern upland. All of the samples were taken at 50 metre intervals with the exception of 001-007, which were spaced at 25 metres.

Statistics

Northern Upland (Please refer to accompanying 1:5000 and 10000 scale sample maps)

All samples taken here from 2011 through 2013 were conventional B Horizon soils samples at about one metre depth.

Averages of 58 samples taken here during 2012 and 2013 were as follows:

Ag .65 ppm, Pb 19 ppm, Zn 406 ppm, Cu 27 ppm, W .37 ppm and Hg 12 ppb

I believe that the Hg values are skewed to the high side, as the 2012 samples were sent to a lab with a less sensitive capability.

The only comparable conventional soils sampling was done By Corona Corp. during 1988, but this was done in the southern upland and the valley. Averages of a large number of samples from this survey were as follows:

Ag .31 ppm, Pb 20 ppm, Zn 187 ppm and Cu 20 ppm. There were no assays for Hg or W.

The soils in the northern area, on average, contain considerably higher Ag, and Zn than in the southern area, and in places are anomalous. No bedrock was seen in the northern survey area, which is thought to be underlain by Active Formation sedimentary rocks. The discrepancy in B horizon values between the north and south areas might be caused by deeper overburden in the southern area, or by the possibility that the underlying formations in the north area contain higher zinc and silver.

Valley and Southern Upland (Please refer to accompanying 1:10000 scale sample map).

Shallow Ah horizon soils work was done in the valley and southern upland, close to the old Corona work. Averages of 73 samples taken are as follows:

Ag .28 ppm, Pb 60 ppm, Zn 196 ppm, Cu 29 ppm, W 1.7 ppm and Hg 40 ppb

In general, this year's Ah sampling shows similar results to the 1988 Corona B horizon work, with the exception of lead values, which, overall, are much higher in the Ah horizon. Also, average tungsten assays in the Ah survey (South) area are much higher than B horizon sampling in the North area. Possibly, the Ah layer has a greater affinity to lead and tungsten than the B horizon, or the underlying formations in the South area contain higher lead and tungsten.

It is difficult to establish threshold and anomalous values because of the different horizons sampled, and because we are sampling separate areas. Arbitrarily, I have selected .8 ppm silver and 500 ppm zinc to be threshold values, and 60 ppm lead to be of possible interest. In regard to gold, it is generally below significant levels. One sample was anomalous, and a few samples returned detectable levels.

Anomalous Areas

Southern Upland

Bottom of DDH Gus 2, drilled in 2005. The location of the drill collar was at GPS NAD 83 Zone 10; 0481654 E, 5432810N. The hole was drilled in what we call the Saddle Area at Azimuth 158 degrees at -45 degrees inclination. The purpose of the hole was to test a strong horizontal loop electromagnetic conductor coincident with the intersection of the Black Bluff and Styx Creek faults, located approximately 400 metres east of the Lone Silver Mine workings.

The hole was lost in overburden because drillers were negligent in not properly casing. Only seven metres of casing were put down, and the hole continued in overburden to 36.6 metres, at which point the drill could no longer turn. It is very probable that the hole started wandering and flattening immediately after seven metres depth, so we have no idea what the true depth of the hole bottom is, or where it ended up laterally. However, it is very likely much shallower than 36.6 metres depth. We were able to collect from the returned material several samples of overburden containing argillite rock chips. These contained weakly elevated gold values. But the most interesting assays came from fine-grained muck in the bottom two metres of the hole. Resampling of this fine, clay-like material this year corroborates anomalous silver and tungsten. A sample of the bottom metre of the hole (MK 13-3 assayed 8.5 ppm Ag and 55 ppm W, and a sample of the overlying metre of similar material (MK 13-3) assayed 3.67 ppm Ag, 108 ppm Cu, 60 ppm Pb and >100 ppm W. Though tungsten is not cited in old government reports, we have noted sporadic anomalous to highly anomalous tungsten assays from the Lone Silver dumps, the East gold anomalous area and the Lucky Strike Mine. Moreover, the past productive Emerald Tungsten mine is situated 6.4 kilometres north of the Lone Silver area.

Past soils sampling by Orvana detected sporadic anomalous gold in the Saddle Area, and one of my old Pionjar soils test holes (the only one in the Saddle Area) showed anomalous gold. But the 2013 Ah sampling over and around DDH 2 detected only weakly anomalous Pb in sample 105.

Line 5432775N (samples 66-84): A multi-element anomaly (Au, Ag, Zn, Pb, Hg) is found in samples 66-68. These locations are about 50 metres down a gentle slope from the base of the eastern Lone Silver dump, in an area probably covered by deep overburden. This anomaly could represent metals transported by drainage from the dumps, though no dump material is evident near the sample sites. Or, possibly, the anomaly might represent a source at depth. Our 2004 EM survey indicated a conductor under this sampled area, which probably coincides with the underlying Black Bluff fault trace. East of the workings, Anomalous W is found in sample 69, and anomalous Pb, Hg and W in sample 71. And anomalous Pb is found in samples 72-74. It is evident that there are sporadic weakly anomalous metals values along this line east of the Lone Silver workings for a distance of 400 metres. This area, on the north slope of the southern upland, is likely covered by deep overburden.

Anomalous lead was found in the area covered by samples 80-82, with accompanying Hg and W at sample 82. This 100 metre length, which is likely covered by relatively shallow overburden, is close to the contact between the Nelway and Laib formations.

Line 5432975N (samples 54-65): This line was run on the moderate north slope of the southern upland, an area thought to be covered by deep overburden. Possibly anomalous Hg was found in samples 57-61 with anomalous Pb in samples 59 and 61-65. Anomalous W is found in samples 63 and 65.

North-South line (samples 96-105): Elevated Hg was found in samples 97 and 99. Elevated Pb was found in samples 101, 102 and 105.

Valley

Line 5433225N (samples 32-53): This line is in the flat valley bottom from samples 32 to 40, then climbs the gentle lower slope of the southern upland from samples 41 to the end of the line at sample 53. The whole line area is thought to be covered by deep overburden. Detectable Au was found in sample 32, and Au –Hg was detected in sample 34. Elevated Pb was detected in sample 36, and elevated Hg in sample 40. Elevated Pb was found

in sample 41, and anomalous Ag, elevated Cu and anomalous W were found in sample 42. Elevated to anomalous Pb and elevated Hg was found in samples 44 through 51, with the exception of sample 48. And anomalous W accompanied the Pb-Hg in samples 51 and 52.

North-South line (samples 85-95): Elevated to weakly anomalous Pb was found in samples 86 and 88. Elevated Hg was found in samples 89, 92 and 93.

North Upland

Line 5434428N (samples 1-7): This line is on the crest and upper north slope of the northern upland area. The whole line area is overburden covered. It is estimated that the overburden depth is probably a few metres. As can be seen on the accompanying 1:5000 scale map, There are isolated Zn and/or Ag anomalies, as well as more extensive anomalous areas. Most notable, are highly anomalous Zn in samples 2011-26 and 2012- 20 located in the northwest survey area, a possible cluster of Ag anomalies represented by samples 2012- 9,10,17 and 18, and anomalous Zn/Ag over 300 metres along the east portion of the line. As well, sample 7 was Au anomalous refer to 1:10000 scale map.

Line 5433858N (samples 8-31): This line roughly follows contour on the south slope of the northern upland. The area is overburden covered probably by a few to several metres depth. Elevated Cu values are noted over 150 metres in samples 10-13. Anomalous Ag and Pb accompanies Cu in sample 12, and anomalous Ag and Zn accompanies Cu in sample 13.

Conclusions

Because of limited coverage and variable overburden thicknesses, as well as different sample horizons, it is not possible to make any overall interpretation. The most extensive anomalies (Zn-Ag) are found in the northern upland, particularly at the east end of Line 5434428N where Ag

values exceed 1.0 ppm for 300 metres, including a high of 4.72 ppm, giving an average of 1.6 ppm. Anomalous Zn occurs with Ag throughout this interval, with a high of 1070 ppm. To the south on line 54333858N, a weaker Ag anomaly seen at samples 12 and 13 could be correlative with the broader anomaly to the north. My best guess for the cause of these anomalies is likely enriched metal content related to certain Active Formation strata within the upper plate of the Argillite thrust fault.

The strongest soils values in the southern upland area are multi-element anomalies found along Line 5432775N down slope from the Lone Silver workings in samples 66-68, and 400 metres to the East in overburden collected from the bottom of DDH 2 in the Saddle area. Between these two areas, fairly consistent elevated base metals were detected. Anomalous base metals were found near the East end of the line in samples 80-82. The anomaly downslope from the Lone Silver mine shows detectable Au as well as strong Ag (up to 9.85 ppm), and strong Zn-Pb. The anomaly at the bottom of DDH 2 shows strong Ag and very strong W. As mentioned above, much of this area is underlain by a strong EM anomaly most likely related to the intersection of the Black Bluff and Styx Creek faults. Much of Line 5432975N shows elevated to anomalous base metals and Hg, as does Line 5433225N, particularly on its east portion. Both lines are located down slope from the projected trace of the Black Bluff fault. Possibly, the elevated metals values along these lines could result from downslope movement of metals from the Black Bluff fault, or they could represent an underlying bedrock source.

The detectable Au values found in the deeply overburden covered valley area on the west end of Line 5433225N could possibly be significant, but more detailed sampling is needed.

Further Exploration: As noted in previous assessment reports, there are three sites on property where drilling would be justified without further work. They are as follows; a repeat hole near 2005 hole Gus 2 to reach and test bedrock, a hole to test at depth under the high grade Lucky Strike fault – vein, and an offset hole to the old Orvana hole, which cut several anomalous gold intersections in proximity to the East Gold anomaly. From the point of geophysics The Gus Property presents challenges because of the predominant underlying carbonaceous sedimentary section. Probably,

the most useful method would be high quality electromagnetic work, which might detect very high graphitic content associated with major fault structures. Evidence for the association of anomalous metals coincident with high graphite is seen in the easternmost Lone Silver dump material. Moreover, the high graphite anomalous zones are in close proximity to mineralized dolomitic breccias. A good test for this scenario would be the repeat hole suggested near DDH Gus 2.

M. A. Kaufman, P. Eng.

Oct. 14, 2013

Statement of Qualifications M. A. Kaufman

I, M. A. Kaufman hereby state that I have worked as a mining geologist and mining engineer since 1955, interrupted by a short period of military service.

I received an A, B, degree in geology from Dartmouth College in 1955, and an M. S. degree in geology and mining engineering from the University of Minnesota in 1957.

I am currently registered as a Professional Engineer/Geologist in the province of British Columbia.

From the period 1955 - 1963 I worked for the major companies Kennecott Copper Corp., Kermac Nuclear Fuels Corp., Giant Yellowknife Gold Mines Ltd. (Falconbridge), and Hunting Survey Corp., Ltd. I spent one year (1963-1964) working for the State of Alaska, Div. of Mines and Minerals. Beginning in 1965 I worked independently as a contractor, for major companies. From 1969 through 1989, I was a principal of the consulting and contracting firm of Perry, Knox, Kaufman, Inc., and its successor, Knox, Kaufman Inc., which carried out metals exploration and supervised mine developments for mining and oil companies. From 1990 to present I have worked as an independent consultant and prospector.

M. A. Kaufman

GUS PROJECT 2013

SAMPLE #	NORTHING	EASTING	HORIZON	DEPTH	COLOR	COARSENESS	NOTES
GUS 13-001	5434428	481768	B	30cm	br/gr	med coarse	
GUS 13-002	5434428	481818	B	30cm	gr/br	med coarse	
GUS 13-003	5434428	481843	B	30cm	br	fine	
GUS 13-004	5434428	481868	B	20cm	br	fine	
GUS 13-005	5434428	481893	B	30cm	br/gr	med coarse	
GUS 13-006	5434428	481918	B	30cm	lt br	med fine	
GUS 13-007	5434428	481943	B	30cm	br	med fine	
GUS 13-008	5433858	481211	B	30cm	br	med coarse	
GUS 13-009	5433858	481261	B	30cm	gr/br	coarse	
GUS 13-010	5433858	481311	B	30cm	dk gr	med coarse	
GUS 13-011	5433858	481361	B	20cm	dk gr	med coarse	
GUS 13-012	5433858	481411	B	20cm	dk gr	med coarse	
GUS 13-013	5433858	481461	B	25cm	dk gr	med fine	
GUS 13-014	5433858	481511	B	30cm	dk gr	med fine	
GUS 13-015	5433858	481561	B	30cm	gr/br	med fine	
GUS 13-016	5433858	481611	B	30cm	gr/br	med fine	
GUS 13-017	5433858	481661	B	30cm	lt br	med fine	
GUS 13-018	5433858	481711	B	30cm	lt br	med fine	
GUS 13-019	5433858	481761	B	30cm	br	med fine	
GUS 13-020	5433858	481811	B	30cm	gr/br	med fine	
GUS 13-021	5433858	481861	B	30cm	gr/br	med coarse	
GUS 13-022	5433858	481911	B	25cm	br	med fine	
GUS 13-023	5433858	481961	B	30cm	br	med fine	
GUS 13-024	5433858	482011	B	30cm	br/gr	med coarse	
GUS 13-025	5433858	482061	B	30cm	br	med fine	
GUS 13-026	5433858	482111	B	30cm	lt br	med fine	
GUS 13-027	5433858	482161	B	30cm	br/gr	med fine	
GUS 13-028	5433858	482211	B	30cm	gr/br	med coarse	
GUS 13-029	5433858	482261	B	30cm	lt br	med fine	
GUS 13-030	5433858	482311	B	30cm	br	med fine	
GUS 13-031	5433858	482361	B	30cm	br	med fine	
GUS 13-032	5433225	481162	AH	4cm	bl	fine	
GUS 13-033	5433225	481212	AH	4cm	bl/dk br	fine	
GUS 13-034	5433225	481262	AH	4cm	bl/dk br	fine	
GUS 13-035	5433225	481312	AH	4cm	bl/dk br	fine	
GUS 13-036	5433225	481362	AH	4cm	bl/dk br	fine	
GUS 13-037	5433225	481412	AH	4cm	bl/dk br	fine	
GUS 13-038	5433225	481462	AH	4cm	bl/dk br	fine	
GUS 13-039	5433225	481512	AH	4cm	bl/dk br	fine	
GUS 13-040	5433225	481562	AH	4cm	bl/dk br	fine	
GUS 13-041	5433225	481612	AH	4cm	bl/dk br	fine	followed by baseline sample 096
GUS 13-042	5433225	481712	AH	10cm	bl/dk br	fine	ground water, verry wet
GUS 13-043	5433225	481762	AH	4cm	bl/dk br	fine	
GUS 13-044	5433225	481812	AH	4cm	bl/dk br	fine	
GUS 13-045	5433225	481862	AH	4cm	bl/dk br	fine	
GUS 13-046	5433225	481912	AH	4cm	bl/dk br	fine	
GUS 13-047	5433225	481962	AH	4cm	bl/dk br	fine	

GUS 13-048	5433225	482012	AH	4cm	bl/dk br	fine	
GUS 13-049	5433225	482062	AH	4cm	bl/dk br	fine	
GUS 13-050	5433225	482112	AH	4cm	bl/dk br	fine	
GUS 13-051	5433225	482162	AH	4cm	bl/dk br	fine	
GUS 13-052	5433225	482212	AH	4cm	bl/dk br	fine	
GUS 13-053	5433225	482262	AH	4cm	bl/dk br	fine	
GUS 13-054	5432975	481362	AH	4cm	bl/dk br	fine	
GUS 13-055	5432975	481412	AH	4cm	bl/dk br	fine	
GUS 13-056	5432975	481462	AH	4cm	bl/dk br	fine	
GUS 13-057	5432975	481512	AH	4cm	bl/dk br	fine	
GUS 13-058	5432975	481562	AH	4cm	bl/dk br	fine	
GUS 13-059	5432975	481612	AH	4cm	bl/dk br	fine	
GUS 13-060	5432975	481712	AH	4cm	bl/dk br	fine	followed by baseline sample 101
GUS 13-061	5432975	481762	AH	4cm	bl/dk br	fine	
GUS 13-062	5432975	481812	AH	4cm	bl/dk br	fine	
GUS 13-063	5432975	481862	AH	4cm	bl/dk br	fine	
GUS 13-064	5432975	481912	AH	4cm	bl/dk br	fine	
GUS 13-065	5432975	481962	AH	4cm	bl/dk br	fine	
GUS 13-066	5432775	481162	AH	4cm	bl/dk br	fine	below Lone Silver Workings
GUS 13-067	5432775	481212	AH	4cm	bl/dk br	fine	below Lone Silver Workings
GUS 13-068	5432775	481262	AH	4cm	bl/dk br	fine	below Lone Silver Workings
GUS 13-069	5432775	481312	AH	4cm	bl/dk br	fine	
GUS 13-070	5432775	481362	AH	4cm	bl/dk br	fine	
GUS 13-071	5432775	481412	AH	4cm	bl/dk br	fine	
GUS 13-072	5432775	481462	AH	4cm	bl/dk br	fine	
GUS 13-073	5432775	481512	AH	4cm	bl/dk br	fine	
GUS 13-074	5432775	481562	AH	4cm	bl/dk br	fine	
GUS 13-075	5432775	481612	AH	4cm	bl/dk br	fine	followed by baseline sample 105
GUS 13-076	5432775	481712	AH	4cm	bl/dk br	fine	
GUS 13-077	5432775	481762	AH	4cm	bl/dk br	fine	
GUS 13-078	5432775	481812	AH	4cm	bl/dk br	fine	
GUS 13-079	5432775	481862	AH	4cm	bl/dk br	fine	
GUS 13-080	5432775	481912	AH	4cm	bl/dk br	fine	
GUS 13-081	5432775	481962	AH	4cm	bl/dk br	fine	
GUS 13-082	5432775	482012	AH	4cm	bl/dk br	fine	closer to bedrock
GUS 13-083	5432775	482062	AH	4cm	bl/dk br	fine	closer to bedrock
GUS 13-084	5432775	482112	AH	4cm	bl/dk br	fine	
GUS 13-085	5433775	481662	AH	4cm	bl/dk br	fine	
GUS 13-086	5433725	481662	AH	4cm	bl/dk br	fine	
GUS 13-087	5433675	481662	AH	4cm	bl/dk br	fine	
GUS 13-088	5433625	481662	AH	4cm	bl/dk br	fine	
GUS 13-089	5433575	481662	AH	4cm	bl/dk br	fine	
GUS 13-090	5433525	481662	AH	4cm	bl/dk br	fine	
GUS 13-091	5433475	481662	AH	2cm	bl/dk br	fine	AH is very thin, old log landing
GUS 13-092	5433425	481662	AH	15cm	bl/dk gr	fine	swamp
GUS 13-093	5433375	481662	AH	4cm	bl/dk br	fine	
GUS 13-094	5433325	481662	AH	4cm	bl/dk br	fine	
GUS 13-095	5433275	481662	AH	4cm	bl/dk br	fine	
GUS 13-096	5433225	481662	AH	4cm	bl/dk br	fine	

GUS 13-097	5433175	481662	AH	4cm	bl/dk br	fine	
GUS 13-098	5433125	481662	AH	4cm	bl/dk br	fine	
GUS 13-099	5433075	481662	AH	4cm	bl/dk br	fine	
GUS 13-100	5433025	481662	AH	4cm	bl/dk br	fine	
GUS 13-101	5432975	481662	AH	4cm	bl/dk br	fine	
GUS 13-102	5432925	481662	AH	4cm	bl/dk br	fine	
GUS 13-103	5432875	481662	AH	4cm	bl/dk br	fine	
GUS 13-104	5432825	481662	AH	4cm	bl/dk br	fine	
GUS 13-105	5432775	481662	AH	4cm	bl/dk br	fine	

	A	B	C	D	E	F	G	H
1	Gus 2013 Worksheet showing significant assay values							
2								
3		Au ppb	Ag ppm	Cu ppm	Zn ppm	Pb ppm	Hg ppb	W ppm
4			>.5	>50	>500	>50	>50	>3
5								
6	GUS13-001		1.61		755			
7	GUS13-002		1.44		1070			
8	GUS13-003		1.68		873			
9	GUS13-004		1.23		707			
10	GUS13-005				910			
11	GUS13-006							
12	GUS13-007	108			545			
13	GUS13-008							
14	GUS13-009							
15	GUS13-010			54.7				
16	GUS13-011			53				
17	GUS13-012		0.811	77		63		
18	GUS13-013		0.802	87	515			
19	GUS13-014		0.501					
20	GUS13-015							
21	GUS13-016							
22	GUS13-017							
23	GUS13-018							
24	GUS13-019							
25	GUS13-020							
26	GUS13-021							
27	GUS13-022							
28	GUS13-023				502			
29	GUS13-024							
30	GUS13-025							
31	GUS13-026							
32	GUS13-027							
33	GUS13-028							
34	GUS13-029							
35	GUS13-030							
36	GUS13-031							
37	GUS13-032	6						
38	GUS13-033							
39	GUS13-034	9					50	
40	GUS13-035							
41	GUS13-036					64		
42	GUS13-037						50	
43	GUS13-038							
44	GUS13-039							
45	GUS13-040						80	
46	GUS13-041					70		
47	GUS13-042		0.936	63.2				3.7
48	GUS13-043							

	A	B	C	D	E	F	G	H
49	GUS13-044					50	50	
50	GUS13-045					50	50	
51	GUS13-046					125		
52	GUS13-047					79	70	
53	GUS13-048							
54	GUS13-049					68		
55	GUS13-050					81	50	
56	GUS13-051					60	60	3.3
57	GUS13-052					89	60	4.9
58	GUS13-053							
59	GUS13-054							
60	GUS13-055						50	
61	GUS13-056					50		
62	GUS13-057						80	
63	GUS13-058						60	
64	GUS13-059					73	70	
65	GUS13-060						70	
66	GUS13-061					82	70	
67	GUS13-062					88	60	
68	GUS13-063					86		3.2
69	GUS13-064					72		
70	GUS13-065					53		3.5
71	GUS13-066	7	1.45		660	113	80	
72	GUS13-067	13	9.85	46.8	520	261	120	
73	GUS13-068		1.91		522	158		
74	GUS13-069							3
75	GUS13-070							
76	GUS13-071					61	50	3.3
77	GUS13-072					70		
78	GUS13-073					80		
79	GUS13-074					75		
80	GUS13-075							
81	GUS13-076					58		
82	GUS13-077						50	
83	GUS13-078							
84	GUS13-079					56		
85	GUS13-080					115		
86	GUS13-081					107		
87	GUS13-082					110	70	4.9
88	GUS13-083					52		
89	GUS13-084							
90	GUS13-085							
91	GUS13-086					82		
92	GUS13-087							
93	GUS13-088					57		
94	GUS13-089						80	
95	GUS13-090							
96	GUS13-091							

	A	B	C	D	E	F	G	H
97	GUS13-092						60	
98	GUS13-093						80	
99	GUS13-094							
100	GUS13-095							
101	GUS13-096							
102	GUS13-097						50	
103	GUS13-098							
104	GUS13-099						80	
105	GUS13-100							
106	GUS13-101					52		
107	GUS13-102					53		
108	GUS13-103							
109	GUS13-104							
110	GUS13-105					61		
111	MK13-1			94.5				
112	MK13-2		8.5	70				55.4
113	MK13-3		3.67	108			60	>100

	A	B	C	D	E	F
1	Report Date: 6/25/2013					
2						
3	Analyte Symbol	Li	Be	B	Na	Mg
4	Unit Symbol	ppm	ppm	ppm	%	%
5	Detection Limit	0.1	0.1	1	0.001	0.01
6	Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
7						
8	GUS13-001	15.9	0.5	3	0.015	0.31
9	GUS13-002	16.2	0.4	4	0.019	0.3
10	GUS13-003	17	0.6	3	0.022	0.27
11	GUS13-004	15.6	0.5	3	0.02	0.27
12	GUS13-005	14.6	0.5	4	0.017	0.27
13	GUS13-006	18.1	0.8	4	0.026	0.36
14	GUS13-007	12.1	0.6	4	0.018	0.22
15	GUS13-008	16	0.7	5	0.017	0.44
16	GUS13-009	25.6	0.7	4	0.017	0.58
17	GUS13-010	15.8	0.5	9	0.01	0.47
18	GUS13-011	15.1	0.6	8	0.013	0.52
19	GUS13-012	12.9	0.5	8	0.013	0.38
20	GUS13-013	12.5	0.5	8	0.017	0.31
21	GUS13-014	22.9	0.6	5	0.026	0.59
22	GUS13-015	17.1	0.7	5	0.017	0.39
23	GUS13-016	17.5	0.7	5	0.021	0.42
24	GUS13-017	18.6	0.9	6	0.018	0.43
25	GUS13-018	18.5	0.9	5	0.033	0.35
26	GUS13-019	21.8	0.8	5	0.034	0.47
27	GUS13-020	19.5	0.7	6	0.021	0.4
28	GUS13-021	23.1	0.8	5	0.019	0.45
29	GUS13-022	19.3	0.7	5	0.022	0.39
30	GUS13-023	22.4	0.7	5	0.02	0.48
31	GUS13-024	19.5	0.7	7	0.021	0.43
32	GUS13-025	20.7	0.7	4	0.015	0.44
33	GUS13-026	21.6	0.8	4	0.016	0.42
34	GUS13-027	18.1	0.6	4	0.015	0.38
35	GUS13-028	24	0.8	5	0.016	0.46
36	GUS13-029	22.5	0.9	4	0.016	0.46
37	GUS13-030	23.4	0.7	4	0.018	0.46
38	GUS13-031	27.8	0.9	4	0.02	0.52
39	GUS13-032	22.3	0.8	6	0.015	0.44
40	GUS13-033	17.8	0.7	4	0.015	0.43
41	GUS13-034	12.1	0.4	5	0.013	0.29
42	GUS13-035	19.2	0.7	2	0.018	0.44
43	GUS13-036	11.9	0.6	2	0.015	0.27
44	GUS13-037	9.8	0.3	3	0.01	0.22
45	GUS13-038	13	0.5	2	0.011	0.28
46	GUS13-039	15.7	0.5	2	0.012	0.25
47	GUS13-040	8.9	0.2	3	0.011	0.2
48	GUS13-041	22.5	0.4	3	0.013	0.29

	A	B	C	D	E	F
49	GUS13-042	44.3	1.2	4	0.027	0.64
50	GUS13-043	18.6	0.7	4	0.018	0.32
51	GUS13-044	17.9	0.5	5	0.015	0.31
52	GUS13-045	9	0.4	5	0.012	0.19
53	GUS13-046	9.3	0.5	3	0.016	0.23
54	GUS13-047	11.4	0.5	7	0.013	0.33
55	GUS13-048	11.9	0.5	3	0.018	0.29
56	GUS13-049	11.7	0.4	3	0.013	0.31
57	GUS13-050	10.4	0.6	4	0.022	0.24
58	GUS13-051	15.6	0.6	6	0.016	0.35
59	GUS13-052	12.5	0.5	4	0.013	0.31
60	GUS13-053	15.2	0.6	3	0.016	0.29
61	GUS13-054	13.2	0.5	3	0.015	0.26
62	GUS13-055	7.6	0.3	5	0.01	0.23
63	GUS13-056	12.8	0.6	5	0.015	0.27
64	GUS13-057	20.3	0.6	4	0.015	0.28
65	GUS13-058	13.7	0.4	5	0.016	0.3
66	GUS13-059	9.3	0.4	3	0.013	0.22
67	GUS13-060	9.9	0.4	6	0.013	0.28
68	GUS13-061	8.7	0.5	6	0.014	0.27
69	GUS13-062	7.7	0.4	4	0.015	0.25
70	GUS13-063	10.2	0.5	4	0.016	0.25
71	GUS13-064	7.2	0.3	3	0.009	0.22
72	GUS13-065	10.5	0.3	5	0.014	0.29
73	GUS13-066	5.3	0.2	16	0.013	0.64
74	GUS13-067	12.9	0.6	4	0.018	0.46
75	GUS13-068	11.9	0.6	4	0.019	0.29
76	GUS13-069	10	0.4	4	0.009	0.29
77	GUS13-070	17.3	0.6	3	0.016	0.4
78	GUS13-071	8.6	0.4	7	0.012	0.34
79	GUS13-072	11.3	0.4	4	0.012	0.32
80	GUS13-073	8.1	0.3	6	0.015	0.27
81	GUS13-074	11.1	0.4	4	0.018	0.26
82	GUS13-075	9.5	0.3	3	0.016	0.23
83	GUS13-076	16.1	0.6	4	0.021	0.31
84	GUS13-077	8.4	0.4	4	0.013	0.28
85	GUS13-078	11.9	0.5	3	0.018	0.27
86	GUS13-079	8.9	0.5	3	0.019	0.21
87	GUS13-080	11.7	0.5	4	0.018	0.27
88	GUS13-081	14	0.5	4	0.014	0.31
89	GUS13-082	14.6	0.5	7	0.016	0.29
90	GUS13-083	26.6	0.6	4	0.011	0.46
91	GUS13-084	16.8	0.5	4	0.017	0.26
92	GUS13-085	12.3	0.5	4	0.015	0.32
93	GUS13-086	11.8	0.5	3	0.019	0.31
94	GUS13-087	9.4	0.4	5	0.019	0.3
95	GUS13-088	12	0.4	3	0.014	0.31
96	GUS13-089	6.6	0.2	9	0.014	0.26

	A	B	C	D	E	F
97	GUS13-090	14.7	0.3	5	0.015	0.39
98	GUS13-091	19.1	0.5	3	0.018	0.54
99	GUS13-092	2.9	0.1	10	0.019	0.22
100	GUS13-093	9.6	0.3	5	0.016	0.22
101	GUS13-094	23.9	0.6	3	0.02	0.39
102	GUS13-095	17	0.3	2	0.011	0.34
103	GUS13-096	20.4	0.5	3	0.016	0.37
104	GUS13-097	14.4	0.4	3	0.011	0.24
105	GUS13-098	13.2	0.5	4	0.013	0.28
106	GUS13-099	4.5	0.2	3	0.01	0.16
107	GUS13-100	6.8	0.4	5	0.015	0.22
108	GUS13-101	7.8	0.3	3	0.014	0.2
109	GUS13-102	15.8	0.5	3	0.018	0.3
110	GUS13-103	11.8	0.4	4	0.016	0.29
111	GUS13-104	15	0.6	3	0.016	0.29
112	GUS13-105	9.2	0.5	3	0.02	0.24
113	MK13-1	73.2	0.9	3	0.057	2.2
114	MK13-2	27.5	0.8	4	0.065	1.29
115	MK13-3	26.3	0.8	3	0.068	1.28
116						
117						
118						
119						
120						

	G	H	I	J	K	L
1						
2						
3	Al	P	S	K	Ca	V
4	%	%	%	%	%	ppm
5	0.01	0.001	0.001	0.01	0.01	1
6	AR-MS	AR-ICP	AR-ICP	AR-MS	AR-MS	AR-MS
7						
8	1.98	0.335	0.008	0.1	0.26	39
9	1.76	0.308	0.009	0.12	0.22	66
10	2.28	0.24	0.008	0.09	0.19	52
11	1.8	0.269	0.008	0.1	0.19	46
12	1.32	0.077	0.009	0.14	0.2	49
13	2.16	0.268	0.009	0.22	0.42	40
14	1.62	0.266	0.009	0.14	0.25	42
15	2.01	0.104	0.009	0.26	0.39	50
16	2.83	0.1	0.01	0.16	0.39	39
17	1.4	0.144	0.018	0.17	1.47	38
18	1.58	0.123	0.018	0.21	0.86	43
19	1.48	0.165	0.018	0.15	1.07	40
20	1.54	0.441	0.021	0.11	2.4	40
21	2.13	0.157	0.014	0.18	0.53	51
22	2.24	0.132	0.008	0.23	0.28	49
23	2.09	0.209	0.009	0.23	0.44	42
24	2.09	0.257	0.011	0.35	0.55	44
25	2.81	0.459	0.014	0.21	0.53	36
26	2.74	0.207	0.01	0.24	0.32	47
27	2.46	0.227	0.013	0.28	0.61	46
28	2.64	0.214	0.012	0.26	0.43	47
29	2.27	0.183	0.009	0.18	0.34	50
30	2.56	0.184	0.012	0.18	0.38	54
31	2.32	0.163	0.006	0.17	0.37	52
32	2.62	0.223	0.01	0.14	0.31	49
33	2.64	0.175	0.01	0.15	0.28	56
34	2.12	0.204	0.007	0.16	0.28	50
35	2.61	0.176	0.006	0.17	0.32	47
36	2.77	0.2	0.01	0.19	0.33	52
37	2.26	0.199	0.007	0.16	0.27	45
38	2.65	0.163	0.007	0.17	0.3	49
39	2.66	0.174	0.013	0.19	0.3	47
40	2.32	0.162	0.019	0.16	0.33	41
41	1.34	0.199	0.038	0.1	0.82	26
42	2.49	0.175	0.023	0.16	0.49	34
43	1.51	0.162	0.014	0.12	0.36	34
44	0.99	0.088	0.027	0.11	0.63	25
45	1.55	0.154	0.023	0.11	0.4	31
46	1.71	0.136	0.014	0.09	0.19	34
47	0.87	0.1	0.036	0.1	0.53	23
48	1.64	0.065	0.021	0.1	0.5	39

	G	H	I	J	K	L
49	2.94	0.061	0.026	0.27	0.88	67
50	2.35	0.271	0.014	0.12	0.29	36
51	1.7	0.14	0.026	0.12	0.74	34
52	1.05	0.106	0.035	0.08	0.54	24
53	1.17	0.203	0.023	0.15	0.54	29
54	1.22	0.12	0.046	0.14	1.18	25
55	1.54	0.199	0.022	0.14	0.57	32
56	1.08	0.085	0.029	0.11	0.64	32
57	1.63	0.272	0.031	0.12	0.54	29
58	1.69	0.152	0.051	0.14	1.06	33
59	1.24	0.151	0.025	0.12	0.68	32
60	1.93	0.287	0.017	0.13	0.38	34
61	1.89	0.28	0.023	0.1	0.65	31
62	0.96	0.126	0.032	0.11	0.67	25
63	1.92	0.319	0.023	0.1	0.54	31
64	1.69	0.095	0.034	0.13	0.92	41
65	1.26	0.067	0.044	0.1	0.94	29
66	1.05	0.08	0.031	0.09	0.63	26
67	1.16	0.169	0.05	0.12	0.94	22
68	1.39	0.214	0.05	0.13	1.15	23
69	1.16	0.165	0.037	0.15	0.85	27
70	1.43	0.196	0.037	0.12	0.79	27
71	0.8	0.088	0.029	0.1	0.68	23
72	1.15	0.117	0.046	0.12	0.97	25
73	0.49	0.123	0.117	0.14	3.14	17
74	1.53	0.177	0.037	0.16	1	37
75	1.89	0.356	0.023	0.14	1.2	34
76	0.93	0.089	0.026	0.11	0.63	24
77	1.85	0.125	0.025	0.17	0.58	39
78	0.73	0.08	0.056	0.16	1.32	23
79	0.99	0.087	0.031	0.14	0.73	27
80	0.88	0.125	0.054	0.11	1.23	22
81	1.33	0.142	0.031	0.11	0.67	28
82	1.04	0.116	0.041	0.11	0.58	22
83	1.93	0.219	0.016	0.12	0.36	31
84	0.98	0.105	0.039	0.15	0.64	24
85	1.37	0.188	0.024	0.13	0.61	25
86	1.56	0.313	0.022	0.12	0.38	24
87	1.49	0.209	0.021	0.13	0.54	27
88	1.51	0.117	0.018	0.12	0.42	30
89	1.51	0.086	0.036	0.12	0.99	30
90	1.45	0.056	0.04	0.08	1.25	19
91	1.4	0.084	0.033	0.11	0.81	22
92	1.43	0.175	0.018	0.17	0.64	29
93	1.52	0.223	0.019	0.16	0.61	32
94	1.21	0.14	0.054	0.13	1.37	23
95	1.47	0.158	0.025	0.12	0.63	32
96	0.72	0.102	0.083	0.11	1.93	17

	G	H	I	J	K	L
97	1.35	0.121	0.028	0.12	0.83	33
98	1.61	0.096	0.021	0.22	0.5	44
99	0.36	0.104	0.26	0.05	3.75	21
100	1.21	0.086	0.079	0.06	1.61	19
101	2.04	0.11	0.033	0.15	0.68	28
102	1.14	0.045	0.033	0.1	0.86	27
103	1.54	0.085	0.032	0.18	0.64	35
104	1.21	0.072	0.036	0.08	0.54	23
105	1.5	0.207	0.036	0.11	0.74	28
106	0.71	0.102	0.053	0.07	0.73	16
107	1.1	0.197	0.037	0.1	0.84	21
108	0.85	0.088	0.043	0.09	0.7	22
109	1.66	0.115	0.021	0.1	0.44	33
110	1.35	0.208	0.029	0.11	0.66	26
111	1.91	0.137	0.015	0.12	0.3	34
112	1.38	0.216	0.019	0.11	0.5	31
113	2.9	0.161	0.265	0.4	4.17	115
114	1.89	0.098	0.027	0.42	5.15	67
115	1.9	0.096	0.024	0.39	4.88	70
116						
117						
118						
119						
120						

	M	N	O	P	Q	R
1						
2						
3	Cr	Ti	Mn	Fe	Co	Ni
4	ppm	%	ppm	%	ppm	ppm
5	0.5	0.01	1	0.01	0.1	0.1
6	AR-MS	AR-ICP	AR-MS	AR-MS	AR-MS	AR-MS
7						
8	17.7	0.09	297	2.08	7.9	65.4
9	13.2	0.08	274	1.6	5.5	53.8
10	15.2	0.1	182	1.98	6.7	59.1
11	15.6	0.08	211	1.73	6.5	42.8
12	20.8	0.08	376	1.78	7.4	34.7
13	25.6	0.08	459	2.28	8.8	36.6
14	19.6	0.07	617	1.78	6.6	27.3
15	30.2	0.09	476	2.44	9.9	39.9
16	23	0.09	535	3.06	13.6	48.2
17	13.2	0.04	765	2.31	9.9	40.6
18	18.1	0.05	609	2.69	12.2	47.2
19	16.6	0.05	705	2.51	11.7	51.9
20	12.8	0.05	763	2.38	10.2	55.5
21	27.9	0.09	526	2.78	12.2	82.5
22	25.6	0.09	551	2.4	9	37.8
23	24.5	0.08	445	2.36	9.4	43.2
24	31.9	0.09	760	2.52	10.8	42.5
25	26.1	0.1	733	2.21	9.5	39.3
26	29.8	0.11	543	2.65	10.9	41.6
27	26.8	0.09	789	2.44	9.4	43.6
28	33.8	0.09	471	2.56	10.9	57.7
29	25.7	0.09	567	2.41	9.5	41.8
30	29.1	0.09	738	2.71	12.2	56.4
31	22.3	0.09	280	2.56	9.4	54.2
32	24.6	0.09	320	2.43	9.3	36
33	27.5	0.09	389	2.66	10.4	41.4
34	21.3	0.08	275	2.32	8.8	47.7
35	27.5	0.1	342	2.59	10.5	41.9
36	26.4	0.1	405	2.82	11.4	44.4
37	26.4	0.1	717	2.74	10.5	38.8
38	29	0.1	378	2.9	11.2	34.6
39	33.1	0.09	480	2.63	9.9	32.8
40	33.4	0.07	820	2.24	9.7	30
41	15.1	0.05	702	1.5	6.1	16.6
42	27.2	0.09	327	1.9	6.3	24.5
43	21.9	0.08	1210	1.84	6.2	18.4
44	15.6	0.05	713	1.26	4.8	13.6
45	20.3	0.06	1270	1.7	6.6	20.4
46	18.9	0.07	832	1.92	6.6	16.3
47	13.5	0.04	702	1.2	4.1	11.5
48	20.9	0.07	964	2.05	7.3	18

	M	N	O	P	Q	R
49	57.6	0.08	971	3.05	9.9	50.9
50	24.4	0.07	1780	2.01	6.8	21.5
51	21.8	0.06	1630	1.82	6.5	20.3
52	14.1	0.06	915	1.28	4.5	12.3
53	16.6	0.06	968	1.59	6.4	15.3
54	17.4	0.04	1150	1.35	5.9	18.6
55	20.4	0.06	645	1.72	6.6	20.6
56	20.4	0.05	759	1.53	5.9	18.4
57	19.3	0.06	2070	1.67	6.2	18.3
58	21.5	0.06	847	1.66	6.5	19.2
59	20.1	0.07	532	1.65	6.3	18
60	21.4	0.07	770	1.82	6.9	23.5
61	20.7	0.07	1250	1.8	6.1	19.2
62	15.9	0.05	897	1.26	4.5	12.3
63	20.7	0.05	2650	1.74	6	17.6
64	23.1	0.06	2790	1.87	6.7	23.7
65	23.2	0.05	707	1.44	5.6	19.9
66	17.1	0.05	2070	1.44	5.6	13.3
67	17.4	0.05	1390	1.31	4.9	15.5
68	17.2	0.04	2040	1.37	5.7	15.9
69	19.6	0.04	1830	1.41	6.4	16.1
70	20	0.05	1100	1.51	5.8	15.8
71	15.7	0.04	1220	1.1	4.8	11.2
72	17.3	0.05	829	1.22	5.4	18.3
73	13.6	0.02	335	0.83	4.3	13.3
74	22.4	0.05	1670	1.83	7.2	23.8
75	19.7	0.07	2340	1.75	7.1	24
76	20.1	0.04	673	1.28	5.3	17.3
77	27.4	0.07	588	1.99	8.1	25.4
78	21.5	0.04	1430	1.2	6.3	16.9
79	22.7	0.05	999	1.37	6.7	18.7
80	18.2	0.04	999	1.14	5.4	15.1
81	18.5	0.06	1200	1.54	6.4	16.3
82	16.5	0.05	498	1.15	4.4	13.7
83	22.2	0.08	757	1.74	6.4	19.1
84	18.7	0.05	574	1.21	5	15.4
85	18.9	0.06	658	1.42	5.3	18.5
86	16	0.07	1190	1.45	5.1	16.6
87	18.3	0.06	1800	1.84	6.8	18.6
88	21.2	0.07	1570	1.93	7.3	23.9
89	18.9	0.07	1500	1.99	7.2	19.4
90	19.2	0.04	649	2.5	11	31.6
91	15.7	0.04	1870	2.48	9.3	27.5
92	20	0.06	854	1.68	6.7	25
93	19.7	0.06	1900	1.78	7.3	20.8
94	16.6	0.04	1200	1.27	5.1	17.1
95	20.2	0.05	1720	1.68	6.8	18.5
96	13	0.03	765	0.8	3.6	10.8

	M	N	O	P	Q	R
97	20	0.06	793	1.66	6.8	20.1
98	28.6	0.05	376	2.21	9.6	27.9
99	10.9	0.01	96	0.33	1.8	7.1
100	9.9	0.04	876	0.97	3.9	7.7
101	23.1	0.06	329	1.8	6.6	20.4
102	20.5	0.03	471	1.59	5.8	15
103	28.2	0.06	427	1.68	7.7	23.5
104	19	0.05	282	1.29	4.8	16
105	19.7	0.06	1550	1.56	6.7	19
106	12.7	0.04	559	0.83	3.1	8.8
107	15	0.04	1800	1.22	5.1	12.3
108	14.8	0.05	586	1.08	4	10.7
109	20.7	0.07	899	1.79	6.9	16.7
110	18.9	0.06	1610	1.52	6	15.5
111	24.1	0.08	410	1.79	6.6	18.7
112	20	0.08	1160	1.6	5.9	14.8
113	31.3	0.02	808	5.56	22.8	19
114	56.8	0.1	526	3.13	14.6	52.4
115	57.3	0.1	523	2.92	15.2	47.2
116						
117						
118						
119						
120						

	S	T	U	V	W	X
1						
2						
3	Cu	Zn	Ga	Ge	As	Se
4	ppm	ppm	ppm	ppm	ppm	ppm
5	0.01	0.1	0.02	0.1	0.1	0.1
6	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
7						
8	19.7	755	6.48	< 0.1	12.6	0.8
9	14.6	1070	6.48	< 0.1	6.4	0.7
10	14.4	873	6.91	< 0.1	7.3	0.8
11	12.1	707	5.84	< 0.1	5.1	0.6
12	11.2	910	5.61	< 0.1	4.9	0.6
13	19.1	427	7.24	< 0.1	7.2	0.8
14	9.68	545	6.18	< 0.1	5.2	0.5
15	20.6	255	6.69	< 0.1	5.9	0.8
16	49.2	214	7.23	< 0.1	7.2	0.9
17	54.7	261	4.21	< 0.1	14.1	1.2
18	53.6	299	5.2	< 0.1	16.5	1.2
19	76.7	374	4.75	< 0.1	18.2	1.3
20	86.7	515	4.61	< 0.1	18	1.7
21	37.4	311	6.7	< 0.1	8.8	1.1
22	18	235	7.21	< 0.1	7	0.5
23	23.8	275	6.46	< 0.1	7.3	0.5
24	20.7	260	6.26	< 0.1	5.2	0.6
25	22.3	250	7.92	< 0.1	9.1	0.7
26	28.1	210	8.77	< 0.1	11.2	0.8
27	27.9	307	8.49	< 0.1	8.2	0.7
28	22.7	402	8.49	< 0.1	6.2	0.8
29	21.9	371	7.32	< 0.1	7.5	0.7
30	28.8	502	7.57	< 0.1	10.5	0.9
31	28.6	464	7.7	< 0.1	7.8	0.7
32	25.1	234	8.21	< 0.1	7.6	0.5
33	27.9	278	8.7	< 0.1	7.1	0.4
34	28	408	6.88	< 0.1	10.2	0.6
35	26.9	301	8.67	< 0.1	9.1	0.5
36	31	275	7.97	< 0.1	12.1	0.7
37	17.2	253	7.78	< 0.1	7.1	0.5
38	30.3	175	8.65	< 0.1	10.5	0.6
39	23.1	191	9.24	< 0.1	14.7	0.4
40	17.7	189	7.6	< 0.1	11.2	0.5
41	11.3	220	5.45	< 0.1	7.3	0.4
42	19.2	181	7.68	< 0.1	6.6	0.5
43	8.61	156	7.92	< 0.1	7.9	0.2
44	6.48	144	5.07	< 0.1	4.4	0.1
45	10.1	181	6.49	< 0.1	5.6	0.2
46	7.51	149	7.47	< 0.1	5.5	0.2
47	7.35	126	4.46	< 0.1	4.2	0.3
48	10.2	142	6.92	< 0.1	8.6	0.2

	S	T	U	V	W	X
49	63.2	274	9.54	< 0.1	16.1	0.8
50	11.9	245	7.99	< 0.1	7.2	0.3
51	12.3	174	7.55	< 0.1	8	0.3
52	6.32	152	5.19	< 0.1	4.9	0.4
53	11.9	145	6.18	< 0.1	4.2	0.3
54	13.5	167	4.85	< 0.1	4.4	0.2
55	9.82	163	5.76	< 0.1	5.8	0.3
56	11.6	161	4.82	< 0.1	3.8	0.2
57	12	229	6.37	< 0.1	4.3	0.3
58	15.4	199	6.22	< 0.1	5.9	0.5
59	15.4	252	5.55	< 0.1	4	0.3
60	11.5	224	6.87	< 0.1	6.1	0.4
61	11.2	211	7.29	< 0.1	5.3	0.4
62	9.61	159	5.28	< 0.1	3.6	0.4
63	11.9	227	8.06	< 0.1	6.3	0.4
64	14.4	253	6.44	< 0.1	6.2	0.4
65	13.3	158	4.62	< 0.1	5.1	0.3
66	7.2	214	5.76	< 0.1	4.7	0.2
67	9.37	214	5.63	< 0.1	5	0.3
68	13.3	184	6.05	< 0.1	6	0.3
69	11.7	206	4.88	< 0.1	3.8	0.2
70	10.4	294	6.66	< 0.1	4.3	0.4
71	7.67	152	4.49	< 0.1	2.6	0.2
72	10.2	196	4.86	< 0.1	3.8	0.3
73	24.2	660	1.73	< 0.1	4.2	0.9
74	46.8	520	5.53	< 0.1	8.3	0.6
75	21.7	522	6.89	< 0.1	4.5	0.1
76	9.76	141	3.85	< 0.1	3.5	0.2
77	16	192	6.24	< 0.1	4.9	0.3
78	12.1	160	3.75	< 0.1	3.8	0.3
79	11.2	123	4.27	< 0.1	3.6	0.2
80	10.6	164	4.11	< 0.1	3.4	0.4
81	8.66	216	6.01	< 0.1	6.3	0.2
82	6.22	120	4.59	< 0.1	3.5	0.4
83	10	218	6.95	< 0.1	7.7	0.4
84	10.3	118	4.14	< 0.1	5	0.2
85	8.78	199	5.57	< 0.1	3.7	0.3
86	9.53	180	5.26	< 0.1	5.5	0.2
87	9.67	270	6.05	< 0.1	5.2	0.3
88	9.03	213	5.96	< 0.1	5.6	0.2
89	7.99	227	5.13	< 0.1	5.3	0.3
90	11.8	86.6	4.15	< 0.1	3.1	0.5
91	7.97	97.9	5.18	< 0.1	5.5	0.4
92	13.1	264	5.08	< 0.1	4.2	0.3
93	15.7	255	5.09	< 0.1	4.4	0.3
94	11.5	169	4.27	< 0.1	2.8	0.5
95	12.5	199	5.96	< 0.1	4.2	0.4
96	12.2	289	3.41	< 0.1	2.8	0.5

	S	T	U	V	W	X
97	15	207	5.12	< 0.1	4.4	0.3
98	26.8	147	4.91	< 0.1	8.4	0.4
99	19.4	67.7	1.24	< 0.1	1.8	4.9
100	13.7	95	3.66	< 0.1	5.2	0.7
101	26.6	139	5.39	< 0.1	4.9	0.6
102	18.8	84.5	4.15	< 0.1	3.4	0.5
103	22.4	123	4.84	< 0.1	10.1	0.5
104	10.1	133	4.03	< 0.1	8	0.3
105	12.3	195	5.71	< 0.1	9	0.4
106	6.05	134	3.98	< 0.1	4.1	0.3
107	8.99	214	4.91	< 0.1	4.1	0.4
108	6.83	120	4.23	< 0.1	3.9	0.4
109	7.99	187	6.95	< 0.1	6.7	0.3
110	9.91	198	5.52	< 0.1	7.1	0.4
111	11.7	123	6.52	< 0.1	7.1	0.3
112	10.5	210	6.9	< 0.1	4.8	0.4
113	94.5	87.7	11.9	< 0.1	< 0.1	0.4
114	70.6	165	6.56	< 0.1	17.5	0.8
115	108	181	6.74	< 0.1	17	0.5
116						
117	29.31870968	410.1935484				
118		196.1175676				
119	13.39216216					
120						

	Y	Z	AA	AB	AC	AD
1						
2						
3	Rb	Sr	Y	Zr	Sc	Pr
4	ppm	ppm	ppm	ppm	ppm	ppm
5	0.1	0.5	0.01	0.1	0.1	0.1
6	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
7						
8	16.1	23.6	4.32	5.4	2.1	2.6
9	23.6	21.1	3.57	3.3	1.9	2
10	28.1	18.2	3.46	8.4	2.1	1.8
11	25.3	19.9	3.79	3.5	2	2.2
12	43.6	16.7	3.02	1.3	1.7	2.8
13	30.2	33	6.97	2.8	3.1	3.4
14	27.6	28.4	3.51	2.2	2.1	2.3
15	27.5	30.1	7.41	3.2	3.3	4.1
16	27.7	35.8	11	5.7	3.4	4.4
17	16.6	115	22.8	4.4	2.9	5.2
18	21.1	73.7	23.3	3.7	3	5.2
19	17.6	72.9	24.2	3.6	2.7	4.6
20	16.1	168	30.3	5.1	2.6	4.4
21	29.8	50.8	13.9	3	3.5	4.1
22	22.2	31.4	5.71	2.8	2.7	3.4
23	19.4	35.4	8.09	4	2.8	3.8
24	25	40.1	7.57	2.7	3.3	4
25	18.9	40.9	9.44	5.3	3.5	3.7
26	26	33.4	9.7	7.4	4	4
27	22.8	46.7	7.5	3.7	3	3.7
28	25.1	35.5	7.17	3.2	3.3	3.5
29	21.7	31.1	6.15	3.1	2.9	2.9
30	23.9	40.1	6.44	2.7	3	3.3
31	20.6	30.9	7.79	10.1	3.2	3.3
32	19.7	26	5.64	4.5	2.8	3
33	21.1	21.9	7.05	4.4	3.2	3.5
34	16.9	24.7	5.33	4.9	2.6	3.1
35	20.3	23.7	5.26	6.1	3	3.1
36	23.4	24	6.11	4.1	3.2	3.4
37	21.5	22.6	3.45	3.1	3	2.5
38	22	23.2	6.92	6.8	3.7	3.6
39	23.9	22.7	5.1	3.2	2.9	3.3
40	21.4	22.4	3.62	1	1.7	2.7
41	12.7	36	1.92	1.2	0.6	1.4
42	23.6	25.7	4.88	4.1	2.2	2.6
43	14.5	20.9	2.07	1.4	1.5	1.9
44	11.4	31.3	1.7	1	0.8	1.5
45	16	24.1	2.18	1	1	1.7
46	13.3	11.7	1.8	0.9	1.3	1.8
47	8.3	23.1	1.42	0.6	0.4	1.2
48	10.4	21.5	2.26	1.2	1.4	1.9

	Y	Z	AA	AB	AC	AD
49	25.3	42.9	15.2	2.5	4.3	4.9
50	16.1	17.8	2.81	1.8	1.7	1.8
51	11.3	33.3	2.45	0.9	1	1.8
52	7.7	21.9	1.43	1.2	0.6	1.1
53	11	31	1.87	1	1.2	1.4
54	11.3	54.2	2.32	0.9	0.6	1.3
55	14.7	34.3	2.45	1.1	1.1	1.7
56	10.9	37.4	2.42	0.7	1.2	1.8
57	11.6	33.1	2.45	1	1.1	1.6
58	16	42.2	3.31	2.6	1	1.6
59	14	35.7	2.6	2.1	1.6	1.8
60	14.9	29.6	2.62	1.4	1.6	1.9
61	11.5	31.4	2.57	1.8	1.3	1.6
62	8.7	28.4	1.44	0.9	0.7	1.2
63	14.6	37.9	2.43	1.1	1	1.7
64	9.7	38.3	3.7	1.4	1.3	1.7
65	6.8	40.4	1.66	1.2	0.9	1.1
66	7.7	28.7	1.58	0.6	0.7	1
67	10.2	41.6	1.44	1.5	0.6	1
68	10.5	65.4	2.57	1.5	0.4	1.3
69	10.4	50	2.71	0.5	0.6	1.6
70	11.1	43.1	2.6	1.7	1	1.3
71	6.2	39.9	1.63	0.3	0.3	1.3
72	10.4	60.2	2.25	1.2	0.7	1.3
73	9.9	54.6	3.12	1.1	0.2	1
74	13.8	38	4.76	2	1.4	2.2
75	13.3	61.9	3.59	4.2	1.9	1.6
76	11.2	31.2	2.26	0.6	1	2.1
77	19.4	28.9	3.92	2.7	1.9	2.1
78	14.5	62.9	1.8	0.7	0.6	1.2
79	13.5	37.7	2.17	0.4	0.9	1.7
80	7.7	70.3	1.98	1	0.5	1.2
81	11.8	39.8	2.08	1.4	0.9	1.4
82	9.5	31	1.42	2.4	0.7	1
83	14.5	26.7	2.77	5.2	1.9	1.6
84	12.3	40.9	1.96	1.1	0.6	1.2
85	13.8	41.8	2.3	1.9	1.2	1.5
86	10.3	32.1	2.06	3.9	1.2	1.2
87	12.9	36.7	2.52	1.8	1.4	1.5
88	17.9	30.4	2.36	0.8	1.2	1.8
89	15.8	54.2	2.61	3.5	1.5	1.5
90	12.5	61.7	9.27	5.2	2.4	3.8
91	12.4	50.8	3.66	1.8	1.3	2.3
92	14.7	46.6	4.06	1.6	1.3	2.1
93	15.2	51.8	3.67	1.6	1.7	1.8
94	11.9	63.4	2.46	1.4	0.8	1.2
95	12.5	44.4	2.41	1	1.1	1.6
96	7.2	126	1.49	1.2	0.2	0.7

	Y	Z	AA	AB	AC	AD
97	14.9	61.2	2.54	2.4	1.2	1.8
98	19	29.9	6.97	0.9	1.6	3.6
99	2.2	119	2.63	2	< 0.1	0.5
100	5.8	51.1	3.21	1.7	0.1	1
101	12.8	27.7	6.98	3.3	1.2	2.4
102	8.5	28.3	2.5	0.5	0.5	1.7
103	15.6	23.2	6.43	1.7	1.4	2.6
104	7.2	26.4	1.79	1.8	0.6	1.1
105	11.9	29	2.08	1.3	0.9	1.5
106	5.9	29.9	0.95	1.3	0.2	0.6
107	10.5	34.4	1.54	0.5	0.3	1
108	7	29.9	1.22	0.9	0.5	0.9
109	11.4	24.4	1.77	0.9	1.2	1.3
110	13.5	38.8	1.75	0.8	0.7	1.2
111	14.5	21.2	2.93	3.7	1.6	1.8
112	12.1	34.2	2.03	1.9	1.5	1.5
113	19.4	213	12.5	3.2	11.9	3.6
114	31.7	79.5	9.49	3.5	4.4	3.9
115	31.2	81.6	9.31	3.6	4.2	3.9
116						
117						
118						
119						
120						

	AE	AF	AG	AH	AI	AJ
1						
2						
3	Gd	Dy	Ho	Er	Tm	Nb
4	ppm	ppm	ppm	ppm	ppm	ppm
5	0.1	0.1	0.1	0.1	0.1	0.1
6	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
7						
8	1.4	1	0.2	0.5	< 0.1	1.2
9	1.1	0.8	0.1	0.4	< 0.1	0.9
10	1.1	0.8	0.1	0.4	< 0.1	1.4
11	1.2	0.8	0.1	0.4	< 0.1	1
12	1.3	0.7	0.1	0.3	< 0.1	1.4
13	2	1.5	0.3	0.7	< 0.1	1.4
14	1.2	0.8	0.1	0.4	< 0.1	1.1
15	2.1	1.6	0.3	0.7	< 0.1	1.7
16	2.4	2	0.4	1.1	0.2	1.3
17	3.6	3.2	0.7	1.9	0.3	0.7
18	3.5	3.2	0.6	1.9	0.3	1
19	3.4	3.2	0.7	2	0.3	0.9
20	3.7	3.6	0.8	2.3	0.3	0.8
21	2.6	2.2	0.4	1.2	0.2	1.5
22	1.8	1.2	0.2	0.6	< 0.1	1.5
23	2.3	1.6	0.3	0.8	0.1	1.5
24	2.2	1.6	0.3	0.7	0.1	1.9
25	2.3	1.9	0.3	0.9	0.1	1.8
26	2.5	1.9	0.4	1	0.1	2
27	2	1.5	0.3	0.7	0.1	1.7
28	1.9	1.4	0.3	0.7	0.1	1.6
29	1.6	1.2	0.2	0.6	< 0.1	1.4
30	1.8	1.3	0.2	0.6	< 0.1	1.4
31	2	1.5	0.3	0.8	0.1	1.3
32	1.7	1.2	0.2	0.6	< 0.1	1.4
33	2.1	1.5	0.3	0.7	< 0.1	1.4
34	1.6	1.2	0.2	0.5	< 0.1	1.2
35	1.7	1.2	0.2	0.6	< 0.1	1.3
36	2	1.4	0.2	0.6	< 0.1	1.6
37	1.3	0.8	0.1	0.4	< 0.1	1.4
38	2.1	1.6	0.3	0.8	0.1	1.4
39	1.7	1.2	0.2	0.5	< 0.1	2
40	1.3	0.9	0.1	0.4	< 0.1	1.3
41	0.7	0.5	< 0.1	0.2	< 0.1	1.1
42	1.4	1	0.2	0.5	< 0.1	1.6
43	0.9	0.5	< 0.1	0.2	< 0.1	1.4
44	0.7	0.4	< 0.1	0.2	< 0.1	1.2
45	0.8	0.5	< 0.1	0.2	< 0.1	1.1
46	0.8	0.4	< 0.1	0.2	< 0.1	1.1
47	0.6	0.3	< 0.1	0.1	< 0.1	0.8
48	0.9	0.5	< 0.1	0.2	< 0.1	1.5

	AE	AF	AG	AH	AI	AJ
49	3.2	2.5	0.5	1.3	0.2	2.2
50	1	0.7	0.1	0.3	< 0.1	1
51	0.9	0.6	< 0.1	0.3	< 0.1	1
52	0.5	0.3	< 0.1	0.1	< 0.1	1
53	0.7	0.4	< 0.1	0.2	< 0.1	1
54	0.7	0.5	< 0.1	0.2	< 0.1	0.9
55	0.8	0.6	< 0.1	0.3	< 0.1	1
56	0.9	0.6	< 0.1	0.2	< 0.1	1.2
57	0.8	0.5	0.1	0.2	< 0.1	0.9
58	1	0.7	0.1	0.4	< 0.1	1.4
59	0.9	0.6	0.1	0.2	< 0.1	1.5
60	1	0.6	0.1	0.3	< 0.1	1.1
61	0.9	0.6	0.1	0.3	< 0.1	1.1
62	0.5	0.3	< 0.1	0.1	< 0.1	0.9
63	0.9	0.6	< 0.1	0.2	< 0.1	0.8
64	1	0.7	0.1	0.3	< 0.1	1.2
65	0.6	0.4	< 0.1	0.2	< 0.1	1.2
66	0.5	0.4	< 0.1	0.2	< 0.1	0.9
67	0.5	0.3	< 0.1	0.1	< 0.1	1.1
68	0.7	0.5	< 0.1	0.2	< 0.1	0.8
69	0.8	0.6	< 0.1	0.3	< 0.1	0.6
70	0.8	0.5	0.1	0.3	< 0.1	1.1
71	0.6	0.4	< 0.1	0.1	< 0.1	0.6
72	0.7	0.5	< 0.1	0.2	< 0.1	0.9
73	0.7	0.6	0.1	0.3	< 0.1	0.6
74	1.3	0.9	0.2	0.4	< 0.1	1.2
75	0.9	0.7	0.1	0.4	< 0.1	1.2
76	1	0.5	< 0.1	0.2	< 0.1	1
77	1.2	0.9	0.1	0.4	< 0.1	1.5
78	0.6	0.4	< 0.1	0.2	< 0.1	0.8
79	0.8	0.5	< 0.1	0.2	< 0.1	0.9
80	0.6	0.4	< 0.1	0.2	< 0.1	0.9
81	0.7	0.5	< 0.1	0.2	< 0.1	1.1
82	0.5	0.4	< 0.1	0.2	< 0.1	1.1
83	0.9	0.6	0.1	0.3	< 0.1	1.2
84	0.6	0.4	< 0.1	0.2	< 0.1	1
85	0.8	0.5	< 0.1	0.2	< 0.1	1.1
86	0.7	0.5	< 0.1	0.2	< 0.1	1.1
87	0.8	0.6	< 0.1	0.3	< 0.1	0.9
88	0.9	0.5	< 0.1	0.2	< 0.1	0.9
89	0.8	0.6	0.1	0.3	< 0.1	1.5
90	2.3	2	0.4	1	0.2	0.9
91	1.1	0.8	0.1	0.4	< 0.1	0.8
92	1.2	0.8	0.2	0.4	< 0.1	1
93	1.1	0.8	0.1	0.4	< 0.1	0.9
94	0.7	0.5	< 0.1	0.2	< 0.1	1
95	0.8	0.5	< 0.1	0.2	< 0.1	1
96	0.4	0.3	< 0.1	0.1	< 0.1	0.7

	AE	AF	AG	AH	AI	AJ
97	0.9	0.6	< 0.1	0.2	< 0.1	1.3
98	2	1.4	0.2	0.7	< 0.1	0.8
99	0.4	0.4	< 0.1	0.2	< 0.1	0.2
100	0.8	0.6	0.1	0.3	< 0.1	0.7
101	1.6	1.3	0.2	0.6	< 0.1	1.1
102	0.9	0.6	< 0.1	0.2	< 0.1	0.8
103	1.6	1.2	0.2	0.6	< 0.1	1.2
104	0.6	0.4	< 0.1	0.2	< 0.1	1.2
105	0.8	0.5	< 0.1	0.2	< 0.1	1.1
106	0.3	0.2	< 0.1	< 0.1	< 0.1	0.7
107	0.5	0.3	< 0.1	0.2	< 0.1	0.6
108	0.4	0.3	< 0.1	0.1	< 0.1	1
109	0.7	0.4	< 0.1	0.2	< 0.1	1.1
110	0.7	0.4	< 0.1	0.2	< 0.1	0.9
111	1	0.6	0.1	0.3	< 0.1	1.5
112	0.7	0.5	< 0.1	0.2	< 0.1	1.2
113	3.3	2.8	0.5	1.3	0.2	< 0.1
114	2.4	1.8	0.3	0.9	0.1	0.6
115	2.3	1.8	0.3	0.9	0.1	0.3
116						
117						
118						
119						
120						

	AK	AL	AM	AN	AO	AP
1						
2						
3	Mo	Ag	Cd	In	Sn	Sb
4	ppm	ppm	ppm	ppm	ppm	ppm
5	0.01	0.002	0.01	0.02	0.05	0.02
6	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
7						
8	2.49	1.61	5.43	0.03	0.78	1.37
9	2.74	1.44	4.89	0.02	0.79	0.94
10	1.63	1.68	6.62	0.02	0.85	0.59
11	1.51	1.23	5.35	< 0.02	0.83	0.47
12	2.08	0.475	12.1	0.02	0.78	0.81
13	1.4	0.438	4.85	0.02	0.79	0.6
14	1.33	0.232	9.26	0.03	0.73	0.56
15	1.79	0.381	1.66	0.02	0.75	1.02
16	2.02	0.248	1.43	0.03	0.8	0.87
17	3.92	0.211	1.96	0.06	0.69	1.77
18	4.9	0.315	2.35	0.07	0.69	2.05
19	7.07	0.811	3.79	0.08	0.9	2.88
20	6.81	0.822	5.3	0.04	0.8	3.54
21	2.2	0.501	1.16	0.03	5.88	1.09
22	1.77	0.225	0.98	0.02	0.94	0.85
23	1.64	0.187	1.18	0.02	0.78	0.8
24	1.69	0.29	1.59	0.03	0.9	0.88
25	1.2	0.239	1.69	0.03	0.99	0.66
26	1.55	0.22	0.45	0.03	0.95	0.81
27	1.86	0.421	2.32	0.03	0.83	0.96
28	1.92	0.304	2.69	0.03	0.86	0.98
29	1.4	0.237	4.34	0.04	0.86	0.84
30	2.02	0.368	2.94	0.03	0.89	1.06
31	2.01	0.301	2.31	0.03	0.83	1.17
32	1.46	0.167	0.72	0.03	1.2	0.73
33	1.78	0.251	0.88	0.03	0.9	0.89
34	2.27	0.329	1.71	0.02	0.78	1.04
35	1.51	0.203	1.33	0.02	0.82	0.73
36	1.59	0.177	1.09	0.03	0.83	0.88
37	0.94	0.134	0.91	0.03	0.85	0.42
38	0.98	0.219	0.64	0.03	0.86	0.52
39	1.33	0.214	0.9	0.04	0.98	0.72
40	1.08	0.103	1.04	0.04	0.97	0.56
41	0.88	0.318	2.24	0.08	1.29	0.5
42	0.71	0.178	0.53	0.05	1.08	0.3
43	0.78	0.077	1.88	0.1	1.56	0.7
44	0.61	0.005	1.07	0.08	1.63	0.45
45	0.84	0.03	0.93	0.08	1.37	0.5
46	1.03	0.055	0.6	0.08	1.15	0.57
47	0.86	0.018	0.7	0.09	1.07	0.55
48	2.13	0.054	1.53	0.11	1.12	0.76

	AK	AL	AM	AN	AO	AP
49	1.28	0.936	3.4	0.04	1.32	1.07
50	1.04	0.125	1.12	0.07	1	0.41
51	1.54	0.09	2.15	0.1	1	0.74
52	0.94	0.1	1.41	0.16	1.09	0.64
53	0.81	0.14	2.18	0.16	1.5	1.03
54	0.91	0.105	2.28	0.14	1.03	0.85
55	0.67	0.077	1.97	0.09	0.92	0.54
56	0.96	0.01	1.43	0.12	0.94	0.77
57	0.71	0.073	1.77	0.13	1.41	0.7
58	0.96	0.186	1.29	0.1	1.05	0.79
59	0.63	0.092	2.21	0.13	1.3	0.71
60	0.77	0.156	1.64	0.05	0.97	0.45
61	0.86	0.101	2.14	0.11	1.14	0.56
62	0.79	0.035	1.88	0.13	1.06	0.75
63	0.88	0.044	2.03	0.11	1.03	0.59
64	1.33	0.091	3.75	0.21	1.29	0.94
65	0.94	0.097	1.94	0.1	0.95	0.69
66	0.79	0.021	2.28	0.16	1.15	0.66
67	0.89	0.162	2.29	0.21	0.98	0.61
68	0.71	0.076	3.7	0.16	1.11	0.61
69	0.75	0.175	3.52	0.16	1.07	0.74
70	0.85	0.17	2.82	0.14	1.15	0.62
71	0.84	0.165	1.91	0.12	0.91	0.57
72	0.73	0.172	2.06	0.11	1.05	0.6
73	1.35	1.45	9	0.08	1.51	3.79
74	1.85	9.85	4.43	0.14	1.96	21.6
75	3.18	1.91	11	0.14	2.06	3.46
76	0.78	0.226	1.88	0.08	0.69	0.63
77	0.97	0.085	1.68	0.07	0.85	0.81
78	1.06	0.129	2.1	0.15	0.88	0.81
79	0.83	0.124	1.38	0.12	1.1	0.68
80	0.85	0.139	3.43	0.16	1.03	0.78
81	0.66	0.02	1.18	0.13	1.25	0.7
82	0.8	0.007	0.47	0.12	0.93	0.53
83	0.55	< 0.002	0.87	0.12	1.06	0.48
84	0.72	0.032	0.86	0.1	0.75	0.63
85	0.57	0.03	1.91	0.1	0.93	0.41
86	0.56	0.083	1.33	0.09	1.41	0.44
87	0.74	0.007	3.87	0.17	1.3	0.81
88	0.71	0.105	1.34	0.17	1.28	0.8
89	0.88	< 0.002	1.24	0.23	1.33	1.04
90	0.54	< 0.002	0.95	0.14	0.81	0.56
91	0.76	< 0.002	0.71	0.18	1.06	0.81
92	1.07	< 0.002	2.39	0.08	0.77	0.69
93	1.11	0.009	2.6	0.12	1.1	1
94	0.9	0.137	2.97	0.09	0.79	0.51
95	0.91	0.095	3.09	0.11	0.93	0.63
96	1.08	0.08	3.85	0.08	0.55	0.48

	AK	AL	AM	AN	AO	AP
97	1.12	0.029	2.35	0.09	0.79	0.63
98	1.61	0.065	1.23	0.02	0.56	0.62
99	0.88	0.02	2.84	0.05	0.49	0.52
100	1.13	0.054	1.75	0.09	0.71	0.52
101	0.62	0.241	1.49	0.04	0.72	0.31
102	1.2	0.122	2.82	0.07	0.95	0.44
103	0.97	0.156	1.15	0.03	0.55	0.51
104	1.29	0.093	0.86	0.08	0.78	0.41
105	1.45	0.144	1.69	0.09	0.92	0.57
106	1.9	0.145	1.12	0.11	0.77	0.65
107	0.8	0.092	2.93	0.15	1.04	0.59
108	0.94	0.061	1.26	0.1	0.91	0.59
109	0.62	0.009	0.75	0.12	1.01	0.54
110	0.6	0.093	1.37	0.08	0.91	0.69
111	0.61	0.094	0.49	0.04	0.74	0.39
112	0.57	0.06	1.04	0.14	1.12	0.55
113	0.89	< 0.002	0.07	0.03	0.52	< 0.02
114	2.6	8.5	1.17	0.02	0.93	0.84
115	1.86	3.67	2.61	0.02	1.03	0.87
116						
117						
118		0.473096774				
119						
120		0.28009589				

	AQ	AR	AS	AT	AU	AV
1						
2						
3	Te	Cs	Ba	La	Ce	Nd
4	ppm	ppm	ppm	ppm	ppm	ppm
5	0.02	0.02	1	0.5	0.01	0.02
6	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
7						
8	0.08	1.6	360	11.7	26.5	9.67
9	0.03	1.97	412	8.8	18.4	7.37
10	< 0.02	1.83	233	7.8	24.5	6.76
11	0.06	1.69	264	9.6	22.1	8.18
12	0.06	2.22	175	13.1	26.3	10.6
13	< 0.02	1.93	294	15.1	32.6	12.9
14	0.08	1.7	355	10.4	22.5	8.46
15	0.08	2.04	213	18.8	38.5	15.1
16	0.05	1.73	293	20.1	43.6	16.3
17	0.1	1.14	350	24.1	46.4	20
18	0.1	1.27	323	23.9	46.2	20
19	0.09	1.13	284	20.4	39.1	17.8
20	0.06	1.22	342	19.5	36.1	17.6
21	0.05	2.14	199	18.2	36	15.6
22	< 0.02	1.71	256	15.5	35	12.5
23	0.02	1.65	195	17	36.1	14.2
24	< 0.02	2.12	401	18.2	37.1	14.7
25	< 0.02	1.85	356	16	34.1	14
26	0.03	2.26	253	17.9	38.2	15.1
27	< 0.02	1.83	451	16.8	35.3	13.6
28	0.03	2.15	287	15.7	33.9	13.1
29	0.08	1.74	268	12.8	30.2	10.7
30	0.02	1.8	286	14.6	36.2	12.3
31	0.02	1.67	249	14.5	33	12.3
32	< 0.02	1.69	217	13.1	34.7	11
33	0.06	1.81	237	15.6	37.7	13.4
34	0.05	1.53	230	14.2	31.7	11.4
35	0.05	1.79	241	13.8	36.3	11.6
36	0.05	1.89	245	15.4	40.2	12.8
37	0.03	1.92	257	11.5	27.9	9.31
38	0.03	1.86	238	15.5	37.5	13.6
39	0.03	2	230	15.1	35.5	12.4
40	0.06	1.88	217	12.3	30.5	9.99
41	0.04	1.18	184	6.1	14.9	5.05
42	0.05	1.66	207	11.1	26.1	9.78
43	0.09	1.31	343	8.9	18.5	6.93
44	0.04	1	272	7.1	14.1	5.53
45	0.03	1.35	276	8.1	18.3	6.32
46	0.05	1.34	153	8.3	17.4	6.6
47	0.04	0.76	175	5.6	12.3	4.3
48	0.08	1.04	116	8.4	20	6.93

	AQ	AR	AS	AT	AU	AV
49	0.02	2.4	246	22.1	31.9	18.6
50	0.07	1.49	237	8.3	21.4	6.87
51	0.03	1.12	279	8.7	18.7	6.52
52	0.03	0.88	153	5.1	11.8	4.11
53	0.05	0.91	328	6.7	13.6	5
54	0.05	0.96	320	6.3	14.2	4.68
55	0.03	1.27	238	7.7	17.3	6.09
56	0.03	0.98	246	8.4	16.6	6.7
57	0.03	1.16	407	7.3	18.5	5.85
58	0.05	1.24	240	7.5	19.5	6.08
59	0.04	1.1	211	8.2	17.4	6.39
60	0.02	1.37	260	8.8	21.6	7.02
61	0.04	1.2	356	7.5	17.9	5.85
62	0.07	0.79	285	6	12.3	4.31
63	0.03	1.34	518	8.3	19.3	6.05
64	0.04	1.28	216	7.4	16.8	6.37
65	0.03	0.89	134	5	10.6	4.16
66	0.02	0.82	239	4.7	10.8	3.89
67	0.05	0.97	309	4.7	10.5	3.63
68	0.08	0.93	446	7	15.5	4.61
69	0.03	0.91	385	8.8	15.3	5.8
70	0.05	1.2	384	6.2	15	5.01
71	< 0.02	0.66	271	6.2	11.7	4.73
72	0.04	0.94	285	6.4	13.8	4.87
73	0.06	0.59	90	4.4	8.27	3.8
74	< 0.02	1.14	344	10.7	21.7	7.86
75	0.04	1.25	456	7.2	18.1	5.86
76	0.02	0.81	206	10.4	19.9	7.64
77	0.06	1.49	227	10	22.2	7.79
78	0.05	0.91	297	6.1	11.2	4.35
79	0.07	1.03	230	8.3	16.6	6.3
80	0.03	0.77	340	5.8	11.4	4.33
81	0.04	1.17	311	6.4	14.6	4.88
82	0.02	0.98	200	4.7	11.4	3.63
83	0.03	1.4	278	6.9	18.7	5.73
84	< 0.02	1.01	212	5.6	12.5	4.36
85	< 0.02	1.3	319	6.7	15.6	5.34
86	< 0.02	1.13	386	5.5	15.1	4.31
87	0.06	1.2	359	7	17.5	5.63
88	0.03	1.36	253	8.2	17.8	6.28
89	0.07	1.14	212	6.9	17	5.55
90	0.04	0.95	126	16.6	38.6	14.1
91	0.05	1.23	227	10.5	27.4	7.98
92	< 0.02	1.25	323	9.7	21.5	7.55
93	0.05	1.26	392	8.4	20.1	6.74
94	0.03	0.98	352	6.2	13.7	4.45
95	0.04	1.04	416	7.6	17.1	5.88
96	0.04	0.63	341	3.1	7.97	2.64

	AQ	AR	AS	AT	AU	AV
97	0.05	1.04	339	8.8	18.3	6.5
98	< 0.02	1.37	137	15.7	31.1	13.1
99	0.03	0.19	87	2.1	3.63	2.04
100	0.06	0.63	158	4	12.8	3.81
101	< 0.02	0.95	141	9.9	21	9.27
102	0.04	0.53	96	7.8	16.3	6.3
103	< 0.02	1.21	133	11.5	23.4	9.85
104	< 0.02	0.84	131	5.2	12.4	4.1
105	0.08	1.22	229	7.2	18.6	5.45
106	0.04	0.63	249	2.7	6.24	2.15
107	0.04	0.89	404	4.5	10.7	3.55
108	0.03	0.83	185	4.5	8.87	3.3
109	< 0.02	1.29	203	6	15.7	4.71
110	0.05	1.22	256	5.7	13.9	4.5
111	0.05	1.27	144	8.3	21.6	6.51
112	< 0.02	1.21	277	6.9	15.2	5.27
113	< 0.02	1.43	97	14.8	30.1	14.3
114	0.05	2.88	186	17.6	33.4	14.5
115	0.08	2.89	187	17.5	33.5	14.5
116						
117						
118						
119						
120						

	AW	AX	AY	AZ	BA	BB
1						
2						
3	Sm	Eu	Tb	Yb	Lu	Hf
4	ppm	ppm	ppm	ppm	ppm	ppm
5	0.1	0.1	0.1	0.1	0.1	0.1
6	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
7						
8	1.7	0.3	0.2	0.3	< 0.1	< 0.1
9	1.3	0.3	0.1	0.3	< 0.1	< 0.1
10	1.2	0.3	0.1	0.3	< 0.1	< 0.1
11	1.5	0.3	0.2	0.3	< 0.1	< 0.1
12	1.7	0.3	0.2	0.2	< 0.1	< 0.1
13	2.3	0.5	0.3	0.5	< 0.1	< 0.1
14	1.5	0.3	0.1	0.3	< 0.1	< 0.1
15	2.6	0.5	0.3	0.5	< 0.1	< 0.1
16	2.8	0.6	0.3	1	0.1	< 0.1
17	3.6	0.8	0.5	1.6	0.2	< 0.1
18	3.6	0.8	0.5	1.5	0.2	< 0.1
19	3.4	0.8	0.5	1.7	0.3	< 0.1
20	3.4	0.8	0.5	2	0.3	< 0.1
21	2.8	0.6	0.4	1	0.2	< 0.1
22	2.1	0.4	0.2	0.5	< 0.1	< 0.1
23	2.6	0.5	0.3	0.7	< 0.1	< 0.1
24	2.6	0.5	0.3	0.6	< 0.1	< 0.1
25	2.6	0.5	0.3	0.8	0.1	< 0.1
26	2.7	0.6	0.3	0.8	0.1	< 0.1
27	2.4	0.5	0.3	0.6	< 0.1	< 0.1
28	2.4	0.5	0.3	0.6	< 0.1	< 0.1
29	2	0.4	0.2	0.5	< 0.1	< 0.1
30	2.1	0.4	0.2	0.5	< 0.1	< 0.1
31	2.3	0.5	0.3	0.6	< 0.1	0.1
32	2	0.4	0.2	0.5	< 0.1	< 0.1
33	2.4	0.5	0.3	0.6	< 0.1	< 0.1
34	2	0.4	0.2	0.4	< 0.1	< 0.1
35	2.1	0.4	0.2	0.4	< 0.1	< 0.1
36	2.3	0.4	0.3	0.5	< 0.1	< 0.1
37	1.6	0.3	0.2	0.3	< 0.1	< 0.1
38	2.5	0.5	0.3	0.6	< 0.1	< 0.1
39	2.2	0.4	0.2	0.4	< 0.1	< 0.1
40	1.7	0.3	0.2	0.3	< 0.1	< 0.1
41	0.9	0.2	< 0.1	0.1	< 0.1	< 0.1
42	1.7	0.3	0.2	0.4	< 0.1	< 0.1
43	1.1	0.2	0.1	0.2	< 0.1	< 0.1
44	0.9	0.2	< 0.1	0.1	< 0.1	< 0.1
45	1	0.2	< 0.1	0.2	< 0.1	< 0.1
46	1.1	0.2	< 0.1	0.1	< 0.1	< 0.1
47	0.7	0.1	< 0.1	0.1	< 0.1	< 0.1
48	1.2	0.2	0.1	0.2	< 0.1	< 0.1

	AW	AX	AY	AZ	BA	BB
49	3.5	0.8	0.4	1.1	0.2	< 0.1
50	1.2	0.2	0.1	0.2	< 0.1	< 0.1
51	1.1	0.2	0.1	0.2	< 0.1	< 0.1
52	0.7	0.1	< 0.1	0.1	< 0.1	< 0.1
53	0.8	0.1	< 0.1	0.1	< 0.1	< 0.1
54	0.8	0.2	< 0.1	0.2	< 0.1	< 0.1
55	1	0.2	0.1	0.2	< 0.1	< 0.1
56	1.1	0.2	0.1	0.2	< 0.1	< 0.1
57	1	0.2	0.1	0.2	< 0.1	< 0.1
58	1.1	0.2	0.1	0.3	< 0.1	< 0.1
59	1.1	0.2	0.1	0.2	< 0.1	< 0.1
60	1.2	0.2	0.1	0.2	< 0.1	< 0.1
61	1	0.2	0.1	0.2	< 0.1	< 0.1
62	0.7	0.1	< 0.1	0.1	< 0.1	< 0.1
63	1	0.2	0.1	0.2	< 0.1	< 0.1
64	1.1	0.2	0.1	0.3	< 0.1	< 0.1
65	0.7	0.1	< 0.1	0.1	< 0.1	< 0.1
66	0.7	0.1	< 0.1	0.1	< 0.1	< 0.1
67	0.6	0.1	< 0.1	0.1	< 0.1	< 0.1
68	0.8	0.2	< 0.1	0.2	< 0.1	< 0.1
69	1	0.2	0.1	0.2	< 0.1	< 0.1
70	0.9	0.2	0.1	0.2	< 0.1	< 0.1
71	0.8	0.1	< 0.1	0.1	< 0.1	< 0.1
72	0.8	0.2	< 0.1	0.2	< 0.1	< 0.1
73	0.7	0.2	< 0.1	0.2	< 0.1	< 0.1
74	1.4	0.3	0.2	0.3	< 0.1	< 0.1
75	1.1	0.2	0.1	0.3	< 0.1	< 0.1
76	1.3	0.2	0.1	0.1	< 0.1	< 0.1
77	1.4	0.3	0.2	0.3	< 0.1	< 0.1
78	0.7	0.1	< 0.1	0.1	< 0.1	< 0.1
79	1	0.2	< 0.1	0.1	< 0.1	< 0.1
80	0.7	0.1	< 0.1	0.1	< 0.1	< 0.1
81	0.8	0.1	< 0.1	0.1	< 0.1	< 0.1
82	0.6	0.1	< 0.1	0.1	< 0.1	< 0.1
83	1	0.2	0.1	0.3	< 0.1	< 0.1
84	0.7	0.1	< 0.1	0.1	< 0.1	< 0.1
85	0.9	0.2	< 0.1	0.2	< 0.1	< 0.1
86	0.8	0.2	< 0.1	0.2	< 0.1	< 0.1
87	1	0.2	0.1	0.2	< 0.1	< 0.1
88	1.1	0.2	0.1	0.2	< 0.1	< 0.1
89	1	0.2	0.1	0.2	< 0.1	< 0.1
90	2.5	0.6	0.3	0.9	0.1	0.1
91	1.3	0.3	0.1	0.3	< 0.1	< 0.1
92	1.3	0.3	0.2	0.3	< 0.1	< 0.1
93	1.2	0.3	0.1	0.3	< 0.1	< 0.1
94	0.8	0.2	< 0.1	0.2	< 0.1	< 0.1
95	1	0.2	0.1	0.2	< 0.1	< 0.1
96	0.5	< 0.1	< 0.1	0.1	< 0.1	< 0.1

	AW	AX	AY	AZ	BA	BB
97	1.1	0.2	0.1	0.2	< 0.1	< 0.1
98	2.4	0.5	0.3	0.5	< 0.1	< 0.1
99	0.4	< 0.1	< 0.1	0.2	< 0.1	< 0.1
100	0.8	0.2	0.1	0.3	< 0.1	< 0.1
101	1.7	0.4	0.2	0.6	< 0.1	< 0.1
102	1.1	0.2	0.1	0.2	< 0.1	< 0.1
103	1.8	0.4	0.2	0.5	< 0.1	< 0.1
104	0.7	0.1	< 0.1	0.1	< 0.1	< 0.1
105	0.9	0.2	< 0.1	0.1	< 0.1	< 0.1
106	0.4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
107	0.6	0.1	< 0.1	0.1	< 0.1	< 0.1
108	0.6	0.1	< 0.1	< 0.1	< 0.1	< 0.1
109	0.8	0.2	< 0.1	0.1	< 0.1	< 0.1
110	0.8	0.1	< 0.1	0.1	< 0.1	< 0.1
111	1.1	0.2	0.1	0.2	< 0.1	< 0.1
112	0.9	0.2	< 0.1	0.1	< 0.1	< 0.1
113	3	0.8	0.5	1	0.2	< 0.1
114	2.6	0.6	0.3	0.7	< 0.1	< 0.1
115	2.6	0.5	0.3	0.7	< 0.1	< 0.1
116						
117						
118						
119						
120						

	BC	BD	BE	BF	BG	BH
1						
2						
3	Ta	W	Re	Au	Tl	Pb
4	ppm	ppm	ppm	ppb	ppm	ppm
5	0.05	0.1	0.001	5	0.02	0.01
6	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
7						
8	< 0.05	< 0.1	< 0.001	< 5	0.13	16.2
9	< 0.05	< 0.1	0.001	< 5	0.22	13.8
10	< 0.05	0.2	0.001	< 5	0.15	13.1
11	< 0.05	< 0.1	0.002	< 5	0.15	10.9
12	< 0.05	0.2	< 0.001	< 5	0.15	14.7
13	< 0.05	0.3	0.001	< 5	0.19	20.4
14	< 0.05	< 0.1	< 0.001	108	0.1	20.5
15	< 0.05	< 0.1	0.001	< 5	0.18	18.7
16	< 0.05	< 0.1	< 0.001	< 5	0.13	19.8
17	< 0.05	< 0.1	< 0.001	< 5	0.15	40.9
18	< 0.05	< 0.1	0.001	< 5	0.22	43.6
19	< 0.05	< 0.1	0.001	< 5	0.19	63.2
20	< 0.05	< 0.1	< 0.001	< 5	0.19	27.4
21	< 0.05	< 0.1	0.001	< 5	0.2	19.5
22	< 0.05	< 0.1	0.001	< 5	0.18	16.9
23	< 0.05	< 0.1	< 0.001	< 5	0.18	16.9
24	< 0.05	< 0.1	0.001	< 5	0.19	20.7
25	< 0.05	< 0.1	0.001	< 5	0.18	18
26	< 0.05	1.4	< 0.001	< 5	0.25	17.9
27	< 0.05	0.1	0.001	< 5	0.18	18.4
28	< 0.05	0.4	0.001	< 5	0.26	17.7
29	< 0.05	0.2	0.001	< 5	0.16	22.3
30	< 0.05	< 0.1	< 0.001	< 5	0.19	23.5
31	< 0.05	2.3	< 0.001	< 5	0.18	19.5
32	< 0.05	< 0.1	< 0.001	< 5	0.13	16.9
33	< 0.05	< 0.1	< 0.001	< 5	0.15	19.9
34	< 0.05	< 0.1	< 0.001	< 5	0.16	17.2
35	< 0.05	0.2	< 0.001	< 5	0.17	20.6
36	< 0.05	2.4	< 0.001	< 5	0.19	22
37	< 0.05	0.2	< 0.001	< 5	0.15	19.2
38	< 0.05	1	0.001	< 5	0.17	21.7
39	< 0.05	< 0.1	< 0.001	6	0.17	25.7
40	< 0.05	< 0.1	0.001	< 5	0.16	23.2
41	< 0.05	0.6	0.001	9	0.1	37.9
42	< 0.05	0.6	0.002	< 5	0.13	22.8
43	< 0.05	0.8	0.001	< 5	0.15	64.6
44	< 0.05	0.9	0.002	< 5	0.12	38.5
45	< 0.05	1.1	< 0.001	< 5	0.12	34.8
46	< 0.05	0.8	0.001	< 5	0.14	40
47	< 0.05	1.8	0.001	< 5	0.09	42.5
48	< 0.05	1	0.002	< 5	0.1	70.5

	BC	BD	BE	BF	BG	BH
49	< 0.05	3.7	< 0.001	< 5	0.21	36.9
50	< 0.05	1.8	0.002	< 5	0.11	29
51	< 0.05	1	0.001	< 5	0.13	50.4
52	< 0.05	1.9	0.001	< 5	0.11	50.6
53	< 0.05	1.5	< 0.001	< 5	0.1	125
54	< 0.05	1.7	0.001	< 5	0.1	79.9
55	< 0.05	1.2	0.001	< 5	0.11	41.4
56	< 0.05	2.1	< 0.001	< 5	0.1	68.5
57	< 0.05	2	0.001	< 5	0.15	81.6
58	< 0.05	3.3	< 0.001	< 5	0.13	60.5
59	< 0.05	4.9	0.001	< 5	0.1	89.6
60	< 0.05	1.1	0.001	< 5	0.1	29.3
61	< 0.05	1.3	0.001	< 5	0.12	49.7
62	< 0.05	1.8	0.001	< 5	0.11	79.1
63	< 0.05	1.6	< 0.001	< 5	0.13	50.5
64	< 0.05	2.3	0.001	< 5	0.16	106
65	< 0.05	1.7	< 0.001	< 5	0.1	46.6
66	< 0.05	1.6	0.001	< 5	0.12	73.8
67	< 0.05	1.9	< 0.001	< 5	0.11	51
68	< 0.05	2.5	0.001	< 5	0.09	82.9
69	< 0.05	2.5	< 0.001	< 5	0.09	88.5
70	< 0.05	3.2	< 0.001	< 5	0.09	86.4
71	< 0.05	2.2	< 0.001	< 5	0.09	72.5
72	< 0.05	3.5	0.001	< 5	0.09	53.1
73	< 0.05	1.7	< 0.001	7	0.06	113
74	< 0.05	1.6	0.001	13	0.18	261
75	< 0.05	0.9	< 0.001	< 5	0.17	158
76	< 0.05	3	< 0.001	< 5	0.1	42
77	< 0.05	1.7	0.001	< 5	0.13	36.9
78	< 0.05	3.3	0.001	< 5	0.11	61.3
79	< 0.05	2	0.001	< 5	0.09	70.6
80	< 0.05	2.3	< 0.001	< 5	0.1	80.3
81	< 0.05	1.2	0.001	< 5	0.11	75.9
82	< 0.05	2.9	0.001	< 5	0.09	49.2
83	< 0.05	2.1	< 0.001	< 5	0.12	58.4
84	< 0.05	2.3	0.001	< 5	0.11	41.6
85	< 0.05	2.3	0.002	< 5	0.11	48
86	< 0.05	1.7	< 0.001	< 5	0.1	56.7
87	< 0.05	1.4	0.001	< 5	0.12	115
88	< 0.05	1.8	< 0.001	< 5	0.15	107
89	< 0.05	4.9	0.001	< 5	0.16	110
90	< 0.05	2.4	0.002	< 5	0.09	52.7
91	< 0.05	2.1	< 0.001	< 5	0.11	84.2
92	< 0.05	1.1	0.001	< 5	0.11	42.4
93	< 0.05	1.3	< 0.001	< 5	0.11	82.2
94	< 0.05	1.6	< 0.001	< 5	0.11	36.3
95	< 0.05	1.3	0.001	< 5	0.11	57.2
96	< 0.05	1.2	0.001	< 5	0.07	31.1

	BC	BD	BE	BF	BG	BH
97	< 0.05	1.2	< 0.001	< 5	0.1	41.2
98	< 0.05	0.6	0.001	< 5	0.13	15.3
99	< 0.05	0.8	0.007	< 5	0.02	24.8
100	< 0.05	0.4	< 0.001	< 5	0.04	46.6
101	< 0.05	0.7	0.001	< 5	0.06	20.1
102	< 0.05	0.5	0.001	< 5	0.03	39.8
103	< 0.05	1.5	< 0.001	< 5	0.08	18.8
104	< 0.05	2.5	0.001	< 5	0.05	31.1
105	< 0.05	0.8	< 0.001	< 5	0.13	46.6
106	< 0.05	1.6	0.001	< 5	0.07	45.4
107	< 0.05	1.2	< 0.001	< 5	0.1	63
108	< 0.05	1.4	< 0.001	< 5	0.1	52.7
109	< 0.05	1.2	< 0.001	< 5	0.11	53.9
110	< 0.05	0.8	< 0.001	< 5	0.12	47.9
111	< 0.05	0.9	< 0.001	< 5	0.09	20.6
112	< 0.05	1.9	0.001	< 5	0.13	61.6
113	< 0.05	0.2	0.001	< 5	0.11	7.07
114	< 0.05	55.4	0.001	< 5	0.23	32.9
115	< 0.05	> 100	0.001	< 5	0.21	35
116						
117						
118		0.287096774				21.67741935
119		1.702702703				
120						60.59054054

	BI	BJ	BK	BL
1				
2				
3	Bi	Th	U	Hg
4	ppm	ppm	ppm	ppb
5	0.02	0.1	0.1	10
6	AR-MS	AR-MS	AR-MS	AR-MS
7				
8	0.31	4.3	0.8	40
9	0.19	2.6	0.7	< 10
10	0.23	3.6	0.6	< 10
11	0.24	3.1	0.6	< 10
12	0.44	2.8	0.5	< 10
13	0.46	4.4	0.8	< 10
14	0.32	2.9	0.5	< 10
15	0.38	5.3	0.8	< 10
16	0.45	5.9	0.8	< 10
17	0.36	3.8	0.7	< 10
18	0.43	4.3	1.1	< 10
19	0.5	3.3	1.5	< 10
20	0.3	2.6	1.3	< 10
21	0.36	4.4	1.4	< 10
22	0.34	5	0.8	< 10
23	0.34	5.2	0.8	< 10
24	0.48	5.2	0.9	< 10
25	0.42	5.2	0.9	< 10
26	0.47	6.3	1	< 10
27	0.42	5.1	0.9	< 10
28	0.65	5	1	< 10
29	0.42	4.3	0.9	< 10
30	0.4	4.6	1.4	< 10
31	0.36	5.5	1.7	< 10
32	0.34	4.7	0.9	< 10
33	0.38	5.4	1	< 10
34	0.32	5.4	0.9	< 10
35	0.4	6.2	1	< 10
36	0.46	5.5	1.1	< 10
37	0.46	5.5	0.6	< 10
38	0.47	6.2	1.1	< 10
39	0.61	4.4	1.2	< 10
40	0.45	1.4	0.7	< 10
41	0.35	0.5	0.3	50
42	0.42	2.3	1.3	30
43	0.62	2.5	0.4	30
44	0.41	1.3	0.2	50
45	0.41	1.1	0.3	20
46	0.45	1.6	0.4	50
47	0.35	0.4	0.3	80
48	0.57	1.8	0.9	40

	BI	BJ	BK	BL
49	0.98	3.2	3.1	40
50	0.52	1.8	0.8	20
51	0.53	0.7	0.5	50
52	0.41	0.5	0.3	50
53	0.72	1	0.3	20
54	0.51	0.4	0.3	70
55	0.45	0.9	0.4	30
56	0.52	1.2	0.5	30
57	0.6	0.8	0.4	50
58	0.5	1	0.8	60
59	0.6	2.1	0.4	60
60	0.44	1.7	0.5	10
61	0.55	1.2	0.5	30
62	0.5	0.8	0.3	50
63	0.55	0.8	0.4	40
64	0.67	0.9	2.4	80
65	0.46	0.7	0.4	60
66	0.52	0.7	0.3	70
67	0.42	0.7	0.2	70
68	0.59	0.4	0.3	70
69	0.64	0.4	0.4	60
70	0.63	0.9	0.4	40
71	0.51	0.4	0.3	20
72	0.37	0.6	0.3	50
73	0.21	0.7	0.4	80
74	0.45	1.6	0.8	120
75	0.52	2.3	0.5	40
76	0.41	1.6	0.3	10
77	0.55	1.9	0.6	20
78	0.6	0.6	0.3	50
79	0.63	0.8	0.3	30
80	0.55	0.4	0.3	80
81	0.65	1.1	0.3	30
82	0.43	1.1	0.4	40
83	0.6	2.7	0.5	30
84	0.46	1	0.3	50
85	0.46	1.9	0.4	30
86	0.48	1.9	0.3	20
87	0.71	1.9	0.4	30
88	0.69	1.8	0.3	20
89	0.61	2.1	0.3	70
90	0.34	5.4	0.3	40
91	0.46	1.7	0.3	30
92	0.43	2.2	0.5	20
93	0.54	1.9	0.5	20
94	0.3	0.7	0.4	40
95	0.46	1.1	0.4	20
96	0.25	0.3	0.3	80

	BI	BJ	BK	BL
97	0.38	2.3	0.6	20
98	0.36	1.7	1.4	< 10
99	0.18	0.2	17.6	60
100	0.32	0.3	1.7	80
101	0.36	1.4	2.9	40
102	0.41	0.5	1.1	20
103	0.5	1.8	1.8	< 10
104	0.44	1.1	0.5	50
105	0.55	1.1	0.4	30
106	0.34	0.4	0.2	80
107	0.48	0.3	0.2	30
108	0.42	0.6	0.2	30
109	0.48	1	0.3	20
110	0.54	0.6	0.3	20
111	0.4	2.7	0.5	10
112	0.57	1.9	0.3	10
113	0.3	4.9	0.6	< 10
114	1.3	7.8	1.6	30
115	1.2	8.6	1.7	60
116				1.290322581
117				40.27027027
118				
119				
120				

	A	B	C
1	Gus 2013 expenses		
2			
3	M. A. Kaufman		
4	date	work	cost
5			
6	14-May	planning, map prep	\$800.00
7	15-May	planning , map prep	\$400.00
8	3-Jun	supervision	\$800.00
9		sample old core	
10			
11	26-Jun	data comp	\$800.00
12	30-Jun	data comp/map prep	\$400.00
13	16-Jul	assesss. Rept costs	
14		geochem statistics	
15		maps	\$800.00
16	7-Oct	assess rept prep	\$800.00
17	12-Oct	assess rept	\$800.00
18	Oct 14-17	assess rept	\$400.00
19	T MAK		\$6,000.00
20			
21			
22	Contractors		
23	Jack Denny	geochem survey	\$1,446.12
24	Bob Denny	geochem survey	\$945.00
25			
26	Actlabs	assays	\$3,821.93
27	Wayne Reich	drafting	\$161.25
28	T contractors		\$6,374.30
29			
30			
31	Field Expenses		
32			
33	3-Jun	vehicle 422 km	
34		0.5/km	\$211.00
35			
36	Total of above		\$12,585.30
37			
38	From PAC acct		\$3,291.78
39	Of M. A. kaufman		
40	Grand Total		\$15,877.08



Date Submitted: 12-Jun-13
Invoice No.: A13-06563 (i)
Invoice Date: 25-Jun-13
Your Reference:

M.A. Kaufman
P.O. Box 14336
Spokane Valley Washington 99214
United States

ATTN: M.A. KAUFMAN

CERTIFICATE OF ANALYSIS

1 Rock sample and 107 Soil samples were submitted for analysis.

The following analytical package was requested: Code UT-2-Kamloops Aqua Regia ICP-ICP/MS

REPORT **A13-06563 (i)**

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Notes:

Due to matrix change used in AR-MS analysis, detection limits for Au has been modified to 5ppb. The AU from AR-MS is only semi-quantitative. For accurate Au data, fire assay is recommended.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Emmanuel Esemé". The signature is written over a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

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Activation Laboratories Ltd. Report: A13-06563 (i)

Analyte Symbol	Li	Be	B	Na	Mg	Al	P	S	K	Ca	V	Cr	Ti	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb
Unit Symbol	ppm	ppm	ppm	%	%	%	%	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.1	1	0.001	0.01	0.01	0.001	0.001	0.01	0.01	1	0.5	0.01	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.1
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-ICP	AR-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GUS13-105	9.2	0.5	3	0.020	0.24	1.38	0.216	0.019	0.11	0.50	31	20.0	0.08	1160	1.60	5.9	14.8	10.5	210	6.90	< 0.1	4.8	0.4	12.1
MK13-1	73.2	0.9	3	0.057	2.20	2.90	0.161	0.265	0.40	4.17	115	31.3	0.02	808	5.56	22.8	19.0	94.5	87.7	11.9	< 0.1	< 0.1	0.4	19.4
MK13-2	27.5	0.8	4	0.065	1.29	1.89	0.098	0.027	0.42	5.15	67	56.8	0.10	526	3.13	14.6	52.4	70.6	165	6.56	< 0.1	17.5	0.8	31.7
MK13-3	26.3	0.8	3	0.068	1.28	1.90	0.096	0.024	0.39	4.88	70	57.3	0.10	523	2.92	15.2	47.2	108	181	6.74	< 0.1	17.0	0.5	31.2

Activation Laboratories Ltd. Report: A13-06563 (i)

Analyte Symbol	Sr	Y	Zr	Sc	Pr	Gd	Dy	Ho	Er	Tm	Nb	Mo	Ag	Cd	In	Sn	Sb	Te	Cs	Ba	La	Ce	Nd	Sm
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.5	0.01	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.01	0.002	0.01	0.02	0.05	0.02	0.02	0.02	1	0.5	0.01	0.02	0.1
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GUS13-053	29.6	2.62	1.4	1.6	1.9	1.0	0.6	0.1	0.3	< 0.1	1.1	0.77	0.156	1.64	0.05	0.97	0.45	0.02	1.37	260	8.8	21.6	7.02	1.2
GUS13-054	31.4	2.57	1.8	1.3	1.6	0.9	0.6	0.1	0.3	< 0.1	1.1	0.86	0.101	2.14	0.11	1.14	0.56	0.04	1.20	356	7.5	17.9	5.85	1.0
GUS13-055	28.4	1.44	0.9	0.7	1.2	0.5	0.3	< 0.1	0.1	< 0.1	0.9	0.79	0.035	1.88	0.13	1.06	0.75	0.07	0.79	285	6.0	12.3	4.31	0.7
GUS13-056	37.9	2.43	1.1	1.0	1.7	0.9	0.6	< 0.1	0.2	< 0.1	0.8	0.88	0.044	2.03	0.11	1.03	0.59	0.03	1.34	518	8.3	19.3	6.05	1.0
GUS13-057	38.3	3.70	1.4	1.3	1.7	1.0	0.7	0.1	0.3	< 0.1	1.2	1.33	0.091	3.75	0.21	1.29	0.94	0.04	1.28	216	7.4	16.8	6.37	1.1
GUS13-058	40.4	1.66	1.2	0.9	1.1	0.6	0.4	< 0.1	0.2	< 0.1	1.2	0.94	0.097	1.94	0.10	0.95	0.69	0.03	0.89	134	5.0	10.6	4.16	0.7
GUS13-059	28.7	1.58	0.6	0.7	1.0	0.5	0.4	< 0.1	0.2	< 0.1	0.9	0.79	0.021	2.28	0.16	1.15	0.66	0.02	0.82	239	4.7	10.8	3.89	0.7
GUS13-060	41.6	1.44	1.5	0.6	1.0	0.5	0.3	< 0.1	0.1	< 0.1	1.1	0.89	0.162	2.29	0.21	0.98	0.61	0.05	0.97	309	4.7	10.5	3.63	0.6
GUS13-061	65.4	2.57	1.5	0.4	1.3	0.7	0.5	< 0.1	0.2	< 0.1	0.8	0.71	0.076	3.70	0.16	1.11	0.61	0.08	0.93	446	7.0	15.5	4.61	0.8
GUS13-062	50.0	2.71	0.5	0.6	1.6	0.8	0.6	< 0.1	0.3	< 0.1	0.6	0.75	0.175	3.52	0.16	1.07	0.74	0.03	0.91	385	8.8	15.3	5.80	1.0
GUS13-063	43.1	2.60	1.7	1.0	1.3	0.8	0.5	0.1	0.3	< 0.1	1.1	0.85	0.170	2.82	0.14	1.15	0.62	0.05	1.20	384	6.2	15.0	5.01	0.9
GUS13-064	39.9	1.63	0.3	0.3	1.3	0.6	0.4	< 0.1	0.1	< 0.1	0.6	0.84	0.165	1.91	0.12	0.91	0.57	< 0.02	0.66	271	6.2	11.7	4.73	0.8
GUS13-065	60.2	2.25	1.2	0.7	1.3	0.7	0.5	< 0.1	0.2	< 0.1	0.9	0.73	0.172	2.06	0.11	1.05	0.60	0.04	0.94	285	6.4	13.8	4.87	0.8
GUS13-066	54.6	3.12	1.1	0.2	1.0	0.7	0.6	0.1	0.3	< 0.1	0.6	1.35	1.45	9.00	0.08	1.51	3.79	0.06	0.59	90	4.4	8.27	3.80	0.7
GUS13-067	38.0	4.76	2.0	1.4	2.2	1.3	0.9	0.2	0.4	< 0.1	1.2	1.85	9.85	4.43	0.14	1.96	21.6	< 0.02	1.14	344	10.7	21.7	7.86	1.4
GUS13-068	61.9	3.59	4.2	1.9	1.6	0.9	0.7	0.1	0.4	< 0.1	1.2	3.18	1.91	11.0	0.14	2.06	3.46	0.04	1.25	456	7.2	18.1	5.86	1.1
GUS13-069	31.2	2.26	0.6	1.0	2.1	1.0	0.5	< 0.1	0.2	< 0.1	1.0	0.78	0.226	1.88	0.08	0.69	0.63	0.02	0.81	206	10.4	19.9	7.64	1.3
GUS13-070	28.9	3.92	2.7	1.9	2.1	1.2	0.9	0.1	0.4	< 0.1	1.5	0.97	0.085	1.68	0.07	0.85	0.81	0.06	1.49	227	10.0	22.2	7.79	1.4
GUS13-071	62.9	1.80	0.7	0.6	1.2	0.6	0.4	< 0.1	0.2	< 0.1	0.8	1.06	0.129	2.10	0.15	0.88	0.81	0.05	0.91	297	6.1	11.2	4.35	0.7
GUS13-072	37.7	2.17	0.4	0.9	1.7	0.8	0.5	< 0.1	0.2	< 0.1	0.9	0.83	0.124	1.38	0.12	1.10	0.68	0.07	1.03	230	8.3	16.6	6.30	1.0
GUS13-073	70.3	1.98	1.0	0.5	1.2	0.6	0.4	< 0.1	0.2	< 0.1	0.9	0.85	0.139	3.43	0.16	1.03	0.78	0.03	0.77	340	5.8	11.4	4.33	0.7
GUS13-074	39.8	2.08	1.4	0.9	1.4	0.7	0.5	< 0.1	0.2	< 0.1	1.1	0.66	0.020	1.18	0.13	1.25	0.70	0.04	1.17	311	6.4	14.6	4.88	0.8
GUS13-075	31.0	1.42	2.4	0.7	1.0	0.5	0.4	< 0.1	0.2	< 0.1	1.1	0.80	0.007	0.47	0.12	0.93	0.53	0.02	0.98	200	4.7	11.4	3.63	0.6
GUS13-076	26.7	2.77	5.2	1.9	1.6	0.9	0.6	0.1	0.3	< 0.1	1.2	0.55	< 0.002	0.87	0.12	1.06	0.48	0.03	1.40	278	6.9	18.7	5.73	1.0
GUS13-077	40.9	1.96	1.1	0.6	1.2	0.6	0.4	< 0.1	0.2	< 0.1	1.0	0.72	0.032	0.86	0.10	0.75	0.63	< 0.02	1.01	212	5.6	12.5	4.36	0.7
GUS13-078	41.8	2.30	1.9	1.2	1.5	0.8	0.5	< 0.1	0.2	< 0.1	1.1	0.57	0.030	1.91	0.10	0.93	0.41	< 0.02	1.30	319	6.7	15.6	5.34	0.9
GUS13-079	32.1	2.06	3.9	1.2	1.2	0.7	0.5	< 0.1	0.2	< 0.1	1.1	0.56	0.083	1.33	0.09	1.41	0.44	< 0.02	1.13	386	5.5	15.1	4.31	0.8
GUS13-080	36.7	2.52	1.8	1.4	1.5	0.8	0.6	< 0.1	0.3	< 0.1	0.9	0.74	0.007	3.87	0.17	1.30	0.81	0.06	1.20	359	7.0	17.5	5.63	1.0
GUS13-081	30.4	2.36	0.8	1.2	1.8	0.9	0.5	< 0.1	0.2	< 0.1	0.9	0.71	0.105	1.34	0.17	1.28	0.80	0.03	1.36	253	8.2	17.8	6.28	1.1
GUS13-082	54.2	2.61	3.5	1.5	1.5	0.8	0.6	0.1	0.3	< 0.1	1.5	0.88	< 0.002	1.24	0.23	1.33	1.04	0.07	1.14	212	6.9	17.0	5.55	1.0
GUS13-083	61.7	9.27	5.2	2.4	3.8	2.3	2.0	0.4	1.0	0.2	0.9	0.54	< 0.002	0.95	0.14	0.81	0.56	0.04	0.95	126	16.6	38.6	14.1	2.5
GUS13-084	50.8	3.66	1.8	1.3	2.3	1.1	0.8	0.1	0.4	< 0.1	0.8	0.76	< 0.002	0.71	0.18	1.06	0.81	0.05	1.23	227	10.5	27.4	7.98	1.3
GUS13-085	46.6	4.06	1.6	1.3	2.1	1.2	0.8	0.2	0.4	< 0.1	1.0	1.07	< 0.002	2.39	0.08	0.77	0.69	< 0.02	1.25	323	9.7	21.5	7.55	1.3
GUS13-086	51.8	3.67	1.6	1.7	1.8	1.1	0.8	0.1	0.4	< 0.1	0.9	1.11	0.009	2.60	0.12	1.10	1.00	0.05	1.26	392	8.4	20.1	6.74	1.2
GUS13-087	63.4	2.46	1.4	0.8	1.2	0.7	0.5	< 0.1	0.2	< 0.1	1.0	0.90	0.137	2.97	0.09	0.79	0.51	0.03	0.98	352	6.2	13.7	4.45	0.8
GUS13-088	44.4	2.41	1.0	1.1	1.6	0.8	0.5	< 0.1	0.2	< 0.1	1.0	0.91	0.095	3.09	0.11	0.93	0.63	0.04	1.04	416	7.6	17.1	5.88	1.0
GUS13-089	126	1.49	1.2	0.2	0.7	0.4	0.3	< 0.1	0.1	< 0.1	0.7	1.08	0.080	3.85	0.08	0.55	0.48	0.04	0.63	341	3.1	7.97	2.64	0.5
GUS13-090	61.2	2.54	2.4	1.2	1.8	0.9	0.6	< 0.1	0.2	< 0.1	1.3	1.12	0.029	2.35	0.09	0.79	0.63	0.05	1.04	339	8.8	18.3	6.50	1.1
GUS13-091	29.9	6.97	0.9	1.6	3.6	2.0	1.4	0.2	0.7	< 0.1	0.8	1.61	0.065	1.23	0.02	0.56	0.62	< 0.02	1.37	137	15.7	31.1	13.1	2.4
GUS13-092	119	2.63	2.0	< 0.1	0.5	0.4	0.4	< 0.1	0.2	< 0.1	0.2	0.88	0.020	2.84	0.05	0.49	0.52	0.03	0.19	87	2.1	3.63	2.04	0.4
GUS13-093	51.1	3.21	1.7	0.1	1.0	0.8	0.6	0.1	0.3	< 0.1	0.7	1.13	0.054	1.75	0.09	0.71	0.52	0.06	0.63	158	4.0	12.8	3.81	0.8
GUS13-094	27.7	6.98	3.3	1.2	2.4	1.6	1.3	0.2	0.6	< 0.1	1.1	0.62	0.241	1.49	0.04	0.72	0.31	< 0.02	0.95	141	9.9	21.0	9.27	1.7
GUS13-095	28.3	2.50	0.5	0.5	1.7	0.9	0.6	< 0.1	0.2	< 0.1	0.8	1.20	0.122	2.82	0.07	0.95	0.44	0.04	0.53	96	7.8	16.3	6.30	1.1
GUS13-096	23.2	6.43	1.7	1.4	2.6	1.6	1.2	0.2	0.6	< 0.1	1.2	0.97	0.156	1.15	0.03	0.55	0.51	< 0.02	1.21	133	11.5	23.4	9.85	1.8
GUS13-097	26.4	1.79	1.8	0.6	1.1	0.6	0.4	< 0.1	0.2	< 0.1	1.2	1.29	0.093	0.86	0.08	0.78	0.41	< 0.02	0.84	131	5.2	12.4	4.10	0.7
GUS13-098	29.0	2.08	1.3	0.9	1.5	0.8	0.5	< 0.1	0.2	< 0.1	1.1	1.45	0.144	1.69	0.09	0.92	0.57	0.08	1.22	229	7.2	18.6	5.45	0.9
GUS13-099	29.9	0.95	1.3	0.2	0.6	0.3	0.2	< 0.1	< 0.1	< 0.1	0.7	1.90	0.145	1.12	0.11	0.77	0.65	0.04	0.63	249	2.7	6.24	2.15	0.4
GUS13-100	34.4	1.54	0.5	0.3	1.0	0.5	0.3	< 0.1	0.2	< 0.1	0.6	0.80	0.092	2.93	0.15	1.04	0.59	0.04	0.89	404	4.5	10.7	3.55	0.6
GUS13-101	29.9	1.22	0.9	0.5	0.9	0.4	0.3	< 0.1	0.1	< 0.1	1.0	0.94	0.061	1.26	0.10	0.91	0.59	0.03	0.83	185	4.5	8.87	3.30	0.6
GUS13-102	24.4	1.77	0.9	1.2	1.3	0.7	0.4	< 0.1	0.2	< 0.1	1.1	0.62	0.009	0.75	0.12	1.01	0.54	< 0.02	1.29	203	6.0	15.7	4.71	0.8

Activation Laboratories Ltd. Report: A13-06563 (i)

Analyte Symbol	Sr	Y	Zr	Sc	Pr	Gd	Dy	Ho	Er	Tm	Nb	Mo	Ag	Cd	In	Sn	Sb	Te	Cs	Ba	La	Ce	Nd	Sm
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.5	0.01	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.01	0.002	0.01	0.02	0.05	0.02	0.02	0.02	1	0.5	0.01	0.02	0.1
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GUS13-105	34.2	2.03	1.9	1.5	1.5	0.7	0.5	< 0.1	0.2	< 0.1	1.2	0.57	0.060	1.04	0.14	1.12	0.55	< 0.02	1.21	277	6.9	15.2	5.27	0.9
MK13-1	213	12.5	3.2	11.9	3.6	3.3	2.8	0.5	1.3	0.2	< 0.1	0.89	< 0.002	0.07	0.03	0.52	< 0.02	< 0.02	1.43	97	14.8	30.1	14.3	3.0
MK13-2	79.5	9.49	3.5	4.4	3.9	2.4	1.8	0.3	0.9	0.1	0.6	2.60	8.50	1.17	0.02	0.93	0.84	0.05	2.88	186	17.6	33.4	14.5	2.6
MK13-3	81.6	9.31	3.6	4.2	3.9	2.3	1.8	0.3	0.9	0.1	0.3	1.86	3.67	2.61	0.02	1.03	0.87	0.08	2.89	187	17.5	33.5	14.5	2.6

Activation Laboratories Ltd. Report: A13-06563 (i)

Analyte Symbol	Eu	Tb	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Bi	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Detection Limit	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.001	5	0.02	0.01	0.02	0.1	0.1	10
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GUS13-001	0.3	0.2	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.13	16.2	0.31	4.3	0.8	40
GUS13-002	0.3	0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.22	13.8	0.19	2.6	0.7	< 10
GUS13-003	0.3	0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	0.001	< 5	0.15	13.1	0.23	3.6	0.6	< 10
GUS13-004	0.3	0.2	0.3	< 0.1	< 0.1	< 0.05	< 0.1	0.002	< 5	0.15	10.9	0.24	3.1	0.6	< 10
GUS13-005	0.3	0.2	0.2	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.15	14.7	0.44	2.8	0.5	< 10
GUS13-006	0.5	0.3	0.5	< 0.1	< 0.1	< 0.05	0.3	0.001	< 5	0.19	20.4	0.46	4.4	0.8	< 10
GUS13-007	0.3	0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	108	0.10	20.5	0.32	2.9	0.5	< 10
GUS13-008	0.5	0.3	0.5	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.18	18.7	0.38	5.3	0.8	< 10
GUS13-009	0.6	0.3	1.0	0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.13	19.8	0.45	5.9	0.8	< 10
GUS13-010	0.8	0.5	1.6	0.2	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.15	40.9	0.36	3.8	0.7	< 10
GUS13-011	0.8	0.5	1.5	0.2	< 0.1	< 0.05	< 0.1	0.001	< 5	0.22	43.6	0.43	4.3	1.1	< 10
GUS13-012	0.8	0.5	1.7	0.3	< 0.1	< 0.05	< 0.1	0.001	< 5	0.19	63.2	0.50	3.3	1.5	< 10
GUS13-013	0.8	0.5	2.0	0.3	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.19	27.4	0.30	2.6	1.3	< 10
GUS13-014	0.6	0.4	1.0	0.2	< 0.1	< 0.05	< 0.1	0.001	< 5	0.20	19.5	0.36	4.4	1.4	< 10
GUS13-015	0.4	0.2	0.5	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.18	16.9	0.34	5.0	0.8	< 10
GUS13-016	0.5	0.3	0.7	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.18	16.9	0.34	5.2	0.8	< 10
GUS13-017	0.5	0.3	0.6	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.19	20.7	0.48	5.2	0.9	< 10
GUS13-018	0.5	0.3	0.8	0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.18	18.0	0.42	5.2	0.9	< 10
GUS13-019	0.6	0.3	0.8	0.1	< 0.1	< 0.05	1.4	< 0.001	< 5	0.25	17.9	0.47	6.3	1.0	< 10
GUS13-020	0.5	0.3	0.6	< 0.1	< 0.1	< 0.05	0.1	0.001	< 5	0.18	18.4	0.42	5.1	0.9	< 10
GUS13-021	0.5	0.3	0.6	< 0.1	< 0.1	< 0.05	0.4	0.001	< 5	0.26	17.7	0.65	5.0	1.0	< 10
GUS13-022	0.4	0.2	0.5	< 0.1	< 0.1	< 0.05	0.2	0.001	< 5	0.16	22.3	0.42	4.3	0.9	< 10
GUS13-023	0.4	0.2	0.5	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.19	23.5	0.40	4.6	1.4	< 10
GUS13-024	0.5	0.3	0.6	< 0.1	0.1	< 0.05	2.3	< 0.001	< 5	0.18	19.5	0.36	5.5	1.7	< 10
GUS13-025	0.4	0.2	0.5	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.13	16.9	0.34	4.7	0.9	< 10
GUS13-026	0.5	0.3	0.6	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.15	19.9	0.38	5.4	1.0	< 10
GUS13-027	0.4	0.2	0.4	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.16	17.2	0.32	5.4	0.9	< 10
GUS13-028	0.4	0.2	0.4	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.17	20.6	0.40	6.2	1.0	< 10
GUS13-029	0.4	0.3	0.5	< 0.1	< 0.1	< 0.05	2.4	< 0.001	< 5	0.19	22.0	0.46	5.5	1.1	< 10
GUS13-030	0.3	0.2	0.3	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.15	19.2	0.46	5.5	0.6	< 10
GUS13-031	0.5	0.3	0.6	< 0.1	< 0.1	< 0.05	1.0	0.001	< 5	0.17	21.7	0.47	6.2	1.1	< 10
GUS13-032	0.4	0.2	0.4	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	6	0.17	25.7	0.61	4.4	1.2	< 10
GUS13-033	0.3	0.2	0.3	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.16	23.2	0.45	1.4	0.7	< 10
GUS13-034	0.2	< 0.1	0.1	< 0.1	< 0.1	< 0.05	0.6	0.001	9	0.10	37.9	0.35	0.5	0.3	50
GUS13-035	0.3	0.2	0.4	< 0.1	< 0.1	< 0.05	0.6	0.002	< 5	0.13	22.8	0.42	2.3	1.3	30
GUS13-036	0.2	0.1	0.2	< 0.1	< 0.1	< 0.05	0.8	0.001	< 5	0.15	64.6	0.62	2.5	0.4	30
GUS13-037	0.2	< 0.1	0.1	< 0.1	< 0.1	< 0.05	0.9	0.002	< 5	0.12	38.5	0.41	1.3	0.2	50
GUS13-038	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	1.1	< 0.001	< 5	0.12	34.8	0.41	1.1	0.3	20
GUS13-039	0.2	< 0.1	0.1	< 0.1	< 0.1	< 0.05	0.8	0.001	< 5	0.14	40.0	0.45	1.6	0.4	50
GUS13-040	0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.05	1.8	0.001	< 5	0.09	42.5	0.35	0.4	0.3	80
GUS13-041	0.2	0.1	0.2	< 0.1	< 0.1	< 0.05	1.0	0.002	< 5	0.10	70.5	0.57	1.8	0.9	40
GUS13-042	0.8	0.4	1.1	0.2	< 0.1	< 0.05	3.7	< 0.001	< 5	0.21	36.9	0.98	3.2	3.1	40
GUS13-043	0.2	0.1	0.2	< 0.1	< 0.1	< 0.05	1.8	0.002	< 5	0.11	29.0	0.52	1.8	0.8	20
GUS13-044	0.2	0.1	0.2	< 0.1	< 0.1	< 0.05	1.0	0.001	< 5	0.13	50.4	0.53	0.7	0.5	50
GUS13-045	0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.05	1.9	0.001	< 5	0.11	50.6	0.41	0.5	0.3	50
GUS13-046	0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.05	1.5	< 0.001	< 5	0.10	125	0.72	1.0	0.3	20
GUS13-047	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	1.7	0.001	< 5	0.10	79.9	0.51	0.4	0.3	70
GUS13-048	0.2	0.1	0.2	< 0.1	< 0.1	< 0.05	1.2	0.001	< 5	0.11	41.4	0.45	0.9	0.4	30
GUS13-049	0.2	0.1	0.2	< 0.1	< 0.1	< 0.05	2.1	< 0.001	< 5	0.10	68.5	0.52	1.2	0.5	30
GUS13-050	0.2	0.1	0.2	< 0.1	< 0.1	< 0.05	2.0	0.001	< 5	0.15	81.6	0.60	0.8	0.4	50
GUS13-051	0.2	0.1	0.3	< 0.1	< 0.1	< 0.05	3.3	< 0.001	< 5	0.13	60.5	0.50	1.0	0.8	60
GUS13-052	0.2	0.1	0.2	< 0.1	< 0.1	< 0.05	4.9	0.001	< 5	0.10	89.6	0.60	2.1	0.4	60

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Analyte Symbol	Eu	Tb	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Bi	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Detection Limit	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.001	5	0.02	0.01	0.02	0.1	0.1	10
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GUS13-053	0.2	0.1	0.2	< 0.1	< 0.1	< 0.05	1.1	0.001	< 5	0.10	29.3	0.44	1.7	0.5	10
GUS13-054	0.2	0.1	0.2	< 0.1	< 0.1	< 0.05	1.3	0.001	< 5	0.12	49.7	0.55	1.2	0.5	30
GUS13-055	0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.05	1.8	0.001	< 5	0.11	79.1	0.50	0.8	0.3	50
GUS13-056	0.2	0.1	0.2	< 0.1	< 0.1	< 0.05	1.6	< 0.001	< 5	0.13	50.5	0.55	0.8	0.4	40
GUS13-057	0.2	0.1	0.3	< 0.1	< 0.1	< 0.05	2.3	0.001	< 5	0.16	106	0.67	0.9	2.4	80
GUS13-058	0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.05	1.7	< 0.001	< 5	0.10	46.6	0.46	0.7	0.4	60
GUS13-059	0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.05	1.6	0.001	< 5	0.12	73.8	0.52	0.7	0.3	70
GUS13-060	0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.05	1.9	< 0.001	< 5	0.11	51.0	0.42	0.7	0.2	70
GUS13-061	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	2.5	0.001	< 5	0.09	82.9	0.59	0.4	0.3	70
GUS13-062	0.2	0.1	0.2	< 0.1	< 0.1	< 0.05	2.5	< 0.001	< 5	0.09	88.5	0.64	0.4	0.4	60
GUS13-063	0.2	0.1	0.2	< 0.1	< 0.1	< 0.05	3.2	< 0.001	< 5	0.09	86.4	0.63	0.9	0.4	40
GUS13-064	0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.05	2.2	< 0.001	< 5	0.09	72.5	0.51	0.4	0.3	20
GUS13-065	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	3.5	0.001	< 5	0.09	53.1	0.37	0.6	0.3	50
GUS13-066	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	1.7	< 0.001	7	0.06	113	0.21	0.7	0.4	80
GUS13-067	0.3	0.2	0.3	< 0.1	< 0.1	< 0.05	1.6	0.001	13	0.18	261	0.45	1.6	0.8	120
GUS13-068	0.2	0.1	0.3	< 0.1	< 0.1	< 0.05	0.9	< 0.001	< 5	0.17	158	0.52	2.3	0.5	40
GUS13-069	0.2	0.1	0.1	< 0.1	< 0.1	< 0.05	3.0	< 0.001	< 5	0.10	42.0	0.41	1.6	0.3	10
GUS13-070	0.3	0.2	0.3	< 0.1	< 0.1	< 0.05	1.7	0.001	< 5	0.13	36.9	0.55	1.9	0.6	20
GUS13-071	0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.05	3.3	0.001	< 5	0.11	61.3	0.60	0.6	0.3	50
GUS13-072	0.2	< 0.1	0.1	< 0.1	< 0.1	< 0.05	2.0	0.001	< 5	0.09	70.6	0.63	0.8	0.3	30
GUS13-073	0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.05	2.3	< 0.001	< 5	0.10	80.3	0.55	0.4	0.3	80
GUS13-074	0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.05	1.2	0.001	< 5	0.11	75.9	0.65	1.1	0.3	30
GUS13-075	0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.05	2.9	0.001	< 5	0.09	49.2	0.43	1.1	0.4	40
GUS13-076	0.2	0.1	0.3	< 0.1	< 0.1	< 0.05	2.1	< 0.001	< 5	0.12	58.4	0.60	2.7	0.5	30
GUS13-077	0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.05	2.3	0.001	< 5	0.11	41.6	0.46	1.0	0.3	50
GUS13-078	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	2.3	0.002	< 5	0.11	48.0	0.46	1.9	0.4	30
GUS13-079	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	1.7	< 0.001	< 5	0.10	56.7	0.48	1.9	0.3	20
GUS13-080	0.2	0.1	0.2	< 0.1	< 0.1	< 0.05	1.4	0.001	< 5	0.12	115	0.71	1.9	0.4	30
GUS13-081	0.2	0.1	0.2	< 0.1	< 0.1	< 0.05	1.8	< 0.001	< 5	0.15	107	0.69	1.8	0.3	20
GUS13-082	0.2	0.1	0.2	< 0.1	< 0.1	< 0.05	4.9	0.001	< 5	0.16	110	0.61	2.1	0.3	70
GUS13-083	0.6	0.3	0.9	0.1	0.1	< 0.05	2.4	0.002	< 5	0.09	52.7	0.34	5.4	0.3	40
GUS13-084	0.3	0.1	0.3	< 0.1	< 0.1	< 0.05	2.1	< 0.001	< 5	0.11	84.2	0.46	1.7	0.3	30
GUS13-085	0.3	0.2	0.3	< 0.1	< 0.1	< 0.05	1.1	0.001	< 5	0.11	42.4	0.43	2.2	0.5	20
GUS13-086	0.3	0.1	0.3	< 0.1	< 0.1	< 0.05	1.3	< 0.001	< 5	0.11	82.2	0.54	1.9	0.5	20
GUS13-087	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	1.6	< 0.001	< 5	0.11	36.3	0.30	0.7	0.4	40
GUS13-088	0.2	0.1	0.2	< 0.1	< 0.1	< 0.05	1.3	0.001	< 5	0.11	57.2	0.46	1.1	0.4	20
GUS13-089	< 0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.05	1.2	0.001	< 5	0.07	31.1	0.25	0.3	0.3	80
GUS13-090	0.2	0.1	0.2	< 0.1	< 0.1	< 0.05	1.2	< 0.001	< 5	0.10	41.2	0.38	2.3	0.6	20
GUS13-091	0.5	0.3	0.5	< 0.1	< 0.1	< 0.05	0.6	0.001	< 5	0.13	15.3	0.36	1.7	1.4	< 10
GUS13-092	< 0.1	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.8	0.007	< 5	0.02	24.8	0.18	0.2	17.6	60
GUS13-093	0.2	0.1	0.3	< 0.1	< 0.1	< 0.05	0.4	< 0.001	< 5	0.04	46.6	0.32	0.3	1.7	80
GUS13-094	0.4	0.2	0.6	< 0.1	< 0.1	< 0.05	0.7	0.001	< 5	0.06	20.1	0.36	1.4	2.9	40
GUS13-095	0.2	0.1	0.2	< 0.1	< 0.1	< 0.05	0.5	0.001	< 5	0.03	39.8	0.41	0.5	1.1	20
GUS13-096	0.4	0.2	0.5	< 0.1	< 0.1	< 0.05	1.5	< 0.001	< 5	0.08	18.8	0.50	1.8	1.8	< 10
GUS13-097	0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.05	2.5	0.001	< 5	0.05	31.1	0.44	1.1	0.5	50
GUS13-098	0.2	< 0.1	0.1	< 0.1	< 0.1	< 0.05	0.8	< 0.001	< 5	0.13	46.6	0.55	1.1	0.4	30
GUS13-099	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	1.6	0.001	< 5	0.07	45.4	0.34	0.4	0.2	80
GUS13-100	0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.05	1.2	< 0.001	< 5	0.10	63.0	0.48	0.3	0.2	30
GUS13-101	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	1.4	< 0.001	< 5	0.10	52.7	0.42	0.6	0.2	30
GUS13-102	0.2	< 0.1	0.1	< 0.1	< 0.1	< 0.05	1.2	< 0.001	< 5	0.11	53.9	0.48	1.0	0.3	20
GUS13-103	0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.05	0.8	< 0.001	< 5	0.12	47.9	0.54	0.6	0.3	20
GUS13-104	0.2	0.1	0.2	< 0.1	< 0.1	< 0.05	0.9	< 0.001	< 5	0.09	20.6	0.40	2.7	0.5	10

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Analyte Symbol	Eu	Tb	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Bi	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Detection Limit	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.001	5	0.02	0.01	0.02	0.1	0.1	10
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GUS13-105	0.2	< 0.1	0.1	< 0.1	< 0.1	< 0.05	1.9	0.001	< 5	0.13	61.6	0.57	1.9	0.3	10
MK13-1	0.8	0.5	1.0	0.2	< 0.1	< 0.05	0.2	0.001	< 5	0.11	7.07	0.30	4.9	0.6	< 10
MK13-2	0.6	0.3	0.7	< 0.1	< 0.1	< 0.05	55.4	0.001	< 5	0.23	32.9	1.30	7.8	1.6	30
MK13-3	0.5	0.3	0.7	< 0.1	< 0.1	< 0.05	> 100	0.001	< 5	0.21	35.0	1.20	8.6	1.7	60

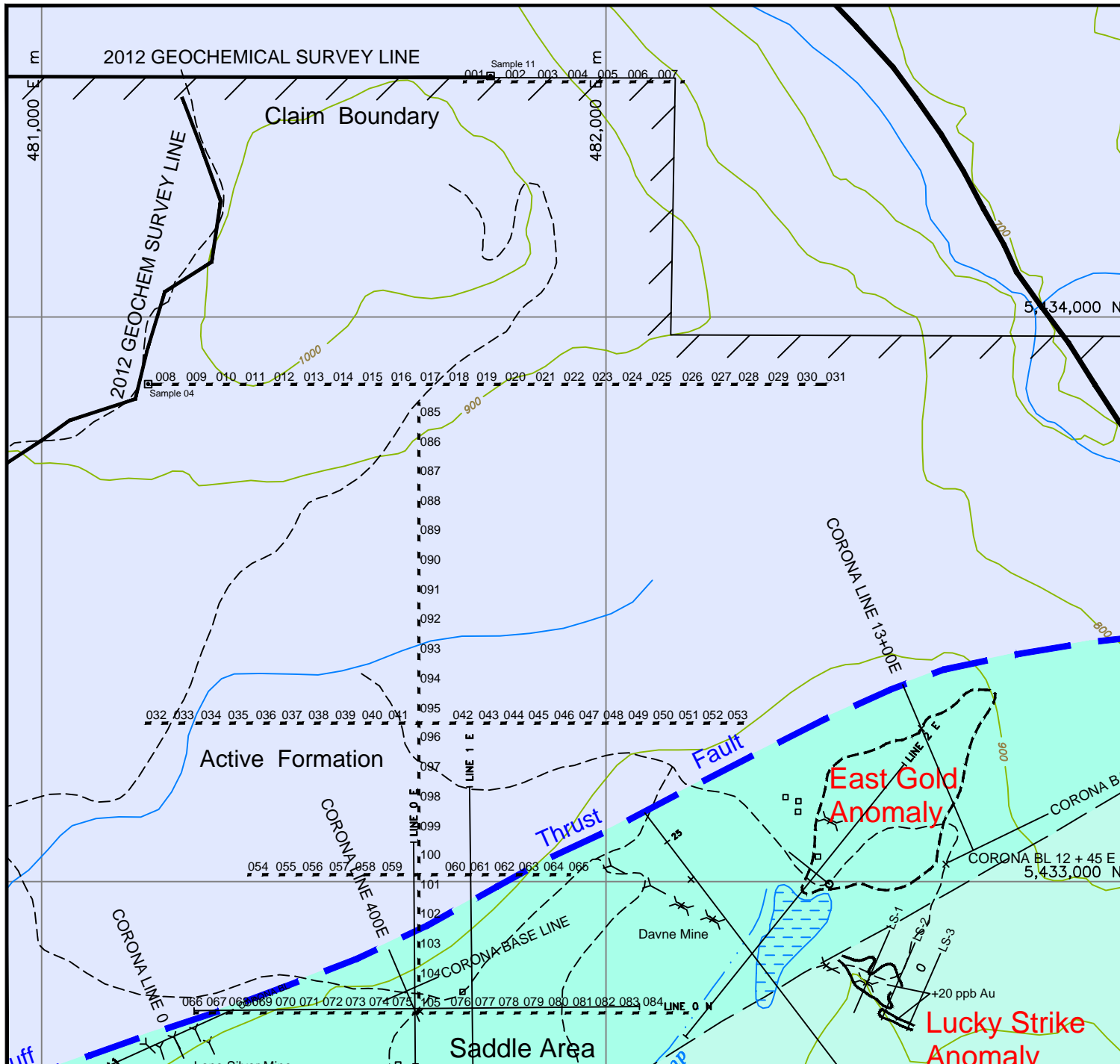
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Quality Control																								
Analyte Symbol	Li	Be	B	Na	Mg	Al	P	S	K	Ca	V	Cr	Ti	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb
Unit Symbol	ppm	ppm	ppm	%	%	%	%	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.1	1	0.001	0.01	0.01	0.001	0.001	0.01	0.01	1	0.5	0.01	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.1
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-ICP	AR-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GXR-1 Meas	5.2	1.0	12	0.037	0.14	0.33	0.033	0.164	0.03	0.87	78	9.2		782	22.7	7.2	38.6	1170	810	4.63		385	12.4	2.3
GXR-1 Cert	8.20	1.22	15.0	0.0520	0.217	3.52	0.0650	0.257	0.050	0.960	80.0	12.0		852	23.6	8.20	41.0	1110	760	13.8		427	16.6	14.0
GXR-1 Meas	5.4	0.9	13	0.033	0.13	0.34			0.03	0.89	80	8.5		882	25.3	8.1	39.3	1210	841	4.52		395	13.0	2.1
GXR-1 Cert	8.20	1.22	15.0	0.0520	0.217	3.52			0.050	0.960	80.0	12.0		852	23.6	8.20	41.0	1110	760	13.8		427	16.6	14.0
GXR-4 Meas	10.5	1.5	4	0.123	1.54	2.74	0.119	1.598	1.86	0.87	82	59.7		132	3.09	13.7	41.2	6830	77.3	12.1		104	6.0	101
GXR-4 Cert	11.1	1.90	4.50	0.564	1.66	7.20	0.120	1.77	4.01	1.01	87.0	64.0		155	3.09	14.6	42.0	6520	73.0	20.0		98.0	5.60	160
GXR-4 Meas	10.4	1.4	5	0.125	1.49	2.65			1.78	0.89	78	55.6		133	3.06	14.3	39.7	6730	76.4	11.6		98.2	5.4	96.3
GXR-4 Cert	11.1	1.90	4.50	0.564	1.66	7.20			4.01	1.01	87.0	64.0		155	3.09	14.6	42.0	6520	73.0	20.0		98.0	5.60	160
GXR-6 Meas	25.9	1.0	4	0.056	0.39	7.58	0.032	0.012	1.20	0.15	182	90.8		1080	6.38	14.4	26.4	77.0	138	20.0		264	0.6	64.4
GXR-6 Cert	32.0	1.40	9.80	0.104	0.609	17.7	0.0350	0.0160	1.87	0.180	186	96.0		1010	5.58	13.8	27.0	66.0	118	35.0		330	0.940	90.0
GXR-6 Meas	26.6	0.9	6	0.052	0.38	7.31			1.19	0.15	172	83.4		1100	6.53	14.9	26.7	77.8	138	21.6		257	0.5	62.1
GXR-6 Cert	32.0	1.40	9.80	0.104	0.609	17.7			1.87	0.180	186	96.0		1010	5.58	13.8	27.0	66.0	118	35.0		330	0.940	90.0
SAR-M (U.S.G.S.) Meas	14.4	1.0		0.018	0.36	0.92	0.062		0.23	0.30	29	93.9	0.04	4040	2.98	10.1	46.4	355	1000	5.51		37.3	0.9	20.4
SAR-M (U.S.G.S.) Cert	27.4	2.20		1.140	0.50	6.30	0.070		2.94	0.61	67.20	79.7	2.7	5220	2.99	10.70	41.50	331	930.0	16.8		38.8	0.39	146.0
SAR-M (U.S.G.S.) Meas	14.3	1.0		0.017	0.33	0.95			0.22	0.29	31	91.5		4220	2.85	10.4	42.7	337	1050	5.47		36.7	1.1	20.6
SAR-M (U.S.G.S.) Cert	27.4	2.20		1.140	0.50	6.30			2.94	0.61	67.20	79.7		5220	2.99	10.70	41.50	331	930.0	16.8		38.8	0.39	146.0
GUS13-013 Orig	13.0	0.5	8	0.018	0.32	1.58	0.442	0.021	0.12	2.50	41	13.0	0.05	794	2.46	10.5	57.0	89.1	524	4.62	< 0.1	18.5	1.7	16.6
GUS13-013 Dup	12.0	0.5	7	0.016	0.29	1.50	0.440	0.020	0.11	2.30	38	12.5	0.05	732	2.30	9.8	54.0	84.3	505	4.60	< 0.1	17.5	1.7	15.5
GUS13-027 Orig	18.4	0.6	4	0.016	0.40	2.16	0.207	0.007	0.17	0.29	51	21.9	0.08	279	2.41	8.9	49.4	29.6	414	7.46	< 0.1	10.6	0.7	17.0
GUS13-027 Dup	17.8	0.6	4	0.015	0.36	2.08	0.201	0.007	0.16	0.27	49	20.7	0.08	270	2.24	8.7	45.9	26.4	402	6.30	< 0.1	9.8	0.5	16.8
GUS13-046 Orig	8.9	0.4	2	0.015	0.22	1.11	0.197	0.022	0.14	0.51	28	16.2	0.06	923	1.52	6.2	14.3	11.2	136	5.79	< 0.1	3.9	0.3	10.5
GUS13-046 Dup	9.6	0.5	3	0.018	0.23	1.23	0.210	0.024	0.16	0.57	31	17.0	0.07	1010	1.65	6.7	16.2	12.7	154	6.58	< 0.1	4.4	0.3	11.5
GUS13-060 Orig	9.9	0.4	7	0.013	0.28	1.16	0.168	0.050	0.12	0.96	22	17.2	0.05	1370	1.30	4.9	15.5	9.36	213	5.67	< 0.1	5.0	0.3	10.2
GUS13-060 Dup	9.9	0.4	6	0.013	0.28	1.16	0.170	0.051	0.12	0.93	22	17.6	0.05	1410	1.32	4.9	15.4	9.39	216	5.59	< 0.1	5.0	0.2	10.1
GUS13-073 Orig	7.9	0.3	6	0.013	0.27	0.84	0.121	0.053	0.11	1.25	20	17.6	0.03	989	1.10	5.3	14.6	10.4	161	3.84	< 0.1	3.5	0.5	7.4
GUS13-073 Dup	8.4	0.3	6	0.016	0.28	0.92	0.128	0.056	0.12	1.21	23	18.7	0.04	1010	1.17	5.5	15.5	10.8	167	4.37	< 0.1	3.4	0.3	7.9
GUS13-087 Orig	9.7	0.4	7	0.013	0.30	1.20	0.131	0.052	0.14	1.47	23	16.5	0.03	1200	1.25	5.1	17.7	12.0	173	4.09	< 0.1	2.9	0.4	12.4
GUS13-087 Dup	9.1	0.4	3	0.024	0.30	1.23	0.148	0.057	0.13	1.27	23	16.8	0.05	1210	1.29	5.0	16.4	11.1	166	4.46	< 0.1	2.8	0.6	11.4
Method Blank	< 0.1	< 0.1	< 1	< 0.001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.01	< 0.01	< 1	< 0.5	< 0.01	< 1	< 0.01	< 0.1	< 0.1	< 0.01	< 0.1	< 0.02	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	< 0.1	< 1	< 0.001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.01	< 0.01	< 1	< 0.5	< 0.01	< 1	< 0.01	< 0.1	< 0.1	< 0.01	< 0.1	< 0.02	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank							< 0.001	< 0.001					< 0.01											

Activation Laboratories Ltd. Report: A13-06563 (i)

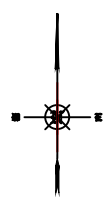
Quality Control																								
Analyte Symbol	Sr	Y	Zr	Sc	Pr	Gd	Dy	Ho	Er	Tm	Nb	Mo	Ag	Cd	In	Sn	Sb	Te	Cs	Ba	La	Ce	Nd	Sm
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.5	0.01	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.01	0.002	0.01	0.02	0.05	0.02	0.02	0.02	1	0.5	0.01	0.02	0.1
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GXR-1 Meas	146	26.1	8.6	0.8		3.2	4.4			0.3	< 0.1	16.8	31.7	2.52	0.70	22.8	73.8	12.9	2.55	180	4.5	9.01	5.59	2.0
GXR-1 Cert	275	32.0	38.0	1.58		4.20	4.30			0.430	0.800	18.0	31.0	3.30	0.770	54.0	122	13.0	3.00	750	7.50	17.0	18.0	2.70
GXR-1 Meas	150	26.1	9.2	1.0		3.3	4.6			0.4	< 0.1	17.5	32.4	2.63	0.74	24.1	75.8	14.0	2.55	160	4.7	9.50	6.03	2.2
GXR-1 Cert	275	32.0	38.0	1.58		4.20	4.30			0.430	0.800	18.0	31.0	3.30	0.770	54.0	122	13.0	3.00	750	7.50	17.0	18.0	2.70
GXR-4 Meas	78.5	12.1	9.8	6.4		4.0	2.5			0.1	0.2	311	3.37	0.11	0.19	5.49	3.63	0.87	2.29	35	40.4	80.7	32.4	5.1
GXR-4 Cert	221	14.0	186	7.70		5.25	2.60			0.210	10.0	310	4.00	0.860	0.270	5.60	4.80	0.970	2.80	1640	64.5	102	45.0	6.60
GXR-4 Meas	74.4	11.1	10.1	6.5		4.0	2.5			0.1	0.1	308	3.55	0.13	0.20	5.62	3.51	1.01	2.28	14	42.2	83.8	34.0	5.3
GXR-4 Cert	221	14.0	186	7.70		5.25	2.60			0.210	10.0	310	4.00	0.860	0.270	5.60	4.80	0.970	2.80	1640	64.5	102	45.0	6.60
GXR-6 Meas	30.6	7.07	13.1	24.6		1.8	1.5			0.1	< 0.1	1.86	0.209	0.12	0.05	1.11	1.72	0.07	2.83	739	9.6	30.0	10.1	2.1
GXR-6 Cert	35.0	14.0	110	27.6		2.97	2.80			0.0320	7.50	2.40	1.30	1.00	0.260	1.70	3.60	0.0180	4.20	1300	13.9	36.0	13.0	2.67
GXR-6 Meas	29.3	6.69	13.4	23.8		1.9	1.5			0.1	< 0.1	1.86	0.289	0.11	0.06	1.21	1.65	0.10	2.86	713	9.9	30.6	10.6	2.1
GXR-6 Cert	35.0	14.0	110	27.6		2.97	2.80			0.0320	7.50	2.40	1.30	1.00	0.260	1.70	3.60	0.0180	4.20	1300	13.9	36.0	13.0	2.67
SAR-M (U.S.G.S.) Meas	28.4	19.7		2.8							2.8	12.0	3.11	4.61	0.92	2.19	3.57	0.91	1.67	143	45.0	94.8		
SAR-M (U.S.G.S.) Cert	151.0	28.00		7.83							29.90	13.10	3.64	5.27	1.08	2.76	6.00	0.96	5.15	801	57.4	122.00		
SAR-M (U.S.G.S.) Meas	27.8	20.5		2.9							2.9	11.7	3.61	4.66	0.95	2.04	3.21	0.83	1.70	139	45.4	96.5		
SAR-M (U.S.G.S.) Cert	151.0	28.00		7.83							29.90	13.10	3.64	5.27	1.08	2.76	6.00	0.96	5.15	801	57.4	122.00		
GUS13-013 Orig	174	31.6	4.8	2.7	4.5	3.8	3.7	0.8	2.4	0.3	0.9	7.05	0.915	5.50	0.04	0.81	3.72	0.05	1.28	358	20.0	37.1	18.3	3.6
GUS13-013 Dup	162	28.9	5.3	2.5	4.2	3.5	3.4	0.7	2.2	0.3	0.8	6.58	0.728	5.10	0.03	0.80	3.36	0.07	1.16	326	19.0	35.0	16.8	3.3
GUS13-027 Orig	25.6	5.38	5.2	2.7	3.2	1.6	1.2	0.2	0.6	< 0.1	1.2	2.29	0.329	1.74	0.02	0.82	1.08	0.06	1.57	237	14.5	32.6	11.7	2.0
GUS13-027 Dup	23.9	5.29	4.7	2.5	3.0	1.6	1.1	0.2	0.5	< 0.1	1.2	2.25	0.329	1.68	0.02	0.75	1.00	0.05	1.49	224	14.0	30.7	11.1	1.9
GUS13-046 Orig	29.1	1.76	1.0	1.1	1.3	0.6	0.4	< 0.1	0.2	< 0.1	0.9	0.78	0.108	2.08	0.15	1.27	0.94	0.05	0.86	311	6.1	12.5	4.67	0.8
GUS13-046 Dup	32.9	1.97	1.1	1.3	1.5	0.7	0.5	< 0.1	0.2	< 0.1	1.0	0.84	0.173	2.29	0.17	1.73	1.13	0.05	0.96	346	7.2	14.6	5.34	0.9
GUS13-060 Orig	42.0	1.44	1.6	0.7	1.0	0.5	0.3	< 0.1	0.1	< 0.1	1.1	0.90	0.151	2.30	0.16	1.04	0.62	0.06	0.98	315	4.6	10.4	3.56	0.6
GUS13-060 Dup	41.3	1.44	1.4	0.6	1.0	0.5	0.3	< 0.1	0.1	< 0.1	1.1	0.87	0.173	2.27	0.27	0.93	0.61	0.04	0.96	303	4.8	10.6	3.69	0.6
GUS13-073 Orig	69.3	1.89	0.9	0.5	1.1	0.6	0.4	< 0.1	0.2	< 0.1	0.9	0.82	0.119	3.38	0.14	1.03	0.76	0.02	0.75	335	5.4	10.7	4.04	0.7
GUS13-073 Dup	71.3	2.06	1.0	0.6	1.3	0.7	0.4	< 0.1	0.2	< 0.1	1.0	0.87	0.158	3.47	0.17	1.03	0.80	0.03	0.79	345	6.2	12.2	4.62	0.8
GUS13-087 Orig	66.0	2.48	1.3	0.6	1.3	0.7	0.5	< 0.1	0.2	< 0.1	0.9	0.94	0.044	3.00	0.09	0.80	0.49	0.02	1.00	348	6.2	13.8	4.48	0.8
GUS13-087 Dup	60.7	2.43	1.6	0.9	1.2	0.7	0.5	< 0.1	0.2	< 0.1	1.0	0.86	0.230	2.94	0.09	0.78	0.52	0.04	0.96	356	6.2	13.6	4.41	0.8
Method Blank	< 0.5	< 0.01	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.01	< 0.002	< 0.01	< 0.02	< 0.05	< 0.02	< 0.02	< 0.02	< 1	< 0.5	< 0.01	< 0.02	< 0.1
Method Blank	< 0.5	< 0.01	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.01	< 0.002	< 0.01	< 0.02	< 0.05	< 0.02	< 0.02	< 0.02	< 1	< 0.5	< 0.01	< 0.02	< 0.1
Method Blank																								

Quality Control																
Analyte Symbol	Eu	Tb	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Bi	Th	U	Hg	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppb	
Detection Limit	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.001	5	0.02	0.01	0.02	0.1	0.1	10	
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	
GXR-1 Meas	0.5	0.6	1.9	0.3	0.2	< 0.05	> 100		3330	0.34	690	1590	1.2	31.2	3610	
GXR-1 Cert	0.690	0.830	1.90	0.280	0.960	0.175	164		3300	0.390	730	1380	2.44	34.9	3900	
GXR-1 Meas	0.5	0.7	2.1	0.3	0.2	< 0.05	> 100		3210	0.34	773	1670	1.3	33.3	3910	
GXR-1 Cert	0.690	0.830	1.90	0.280	0.960	0.175	164		3300	0.390	730	1380	2.44	34.9	3900	
GXR-4 Meas	1.2	0.5	0.8	0.1	0.3	< 0.05	15.5		417	2.89	55.1	21.8	17.0	4.9		
GXR-4 Cert	1.63	0.360	1.60	0.170	6.30	0.790	30.8		470	3.20	52.0	19.0	22.5	6.20		
GXR-4 Meas	1.2	0.5	0.8	0.1	0.3	< 0.05	14.3		523	2.91	46.0	20.4	16.0	4.7		
GXR-4 Cert	1.63	0.360	1.60	0.170	6.30	0.790	30.8		470	3.20	52.0	19.0	22.5	6.20		
GXR-6 Meas	0.5	0.3	0.7	0.1	0.3	< 0.05	0.2		94	1.44	99.1	0.19	4.2	0.8		
GXR-6 Cert	0.760	0.415	2.40	0.330	4.30	0.485	1.90		95.0	2.20	101	0.290	5.30	1.54		
GXR-6 Meas	0.5	0.3	0.8	0.1	0.4	< 0.05	< 0.1		70	1.38	106	0.18	4.2	0.8		
GXR-6 Cert	0.760	0.415	2.40	0.330	4.30	0.485	1.90		95.0	2.20	101	0.290	5.30	1.54		
SAR-M (U.S.G.S.) Meas							3.8			1.00	932	1.80	11.1	2.0		
SAR-M (U.S.G.S.) Cert							9.78			2.88	982	1.94	17.2	3.57		
SAR-M (U.S.G.S.) Meas							2.9			1.02	956	1.79	12.5	2.0		
SAR-M (U.S.G.S.) Cert							9.78			2.88	982	1.94	17.2	3.57		
GUS13-013 Orig	0.9	0.6	2.0	0.3	< 0.1	< 0.05	< 0.1	0.001	< 5	0.20	28.4	0.31	2.6	1.3	< 10	
GUS13-013 Dup	0.8	0.5	1.9	0.3	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.18	26.5	0.29	2.6	1.2	< 10	
GUS13-027 Orig	0.4	0.2	0.4	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.18	17.2	0.32	5.7	1.0	< 10	
GUS13-027 Dup	0.4	0.2	0.4	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.14	17.2	0.31	5.0	0.9	< 10	
GUS13-046 Orig	0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.05	1.5	0.001	< 5	0.09	119	0.69	1.0	0.3	20	
GUS13-046 Dup	0.2	< 0.1	0.1	< 0.1	< 0.1	< 0.05	1.6	< 0.001	< 5	0.10	131	0.75	1.0	0.3	20	
GUS13-060 Orig	0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.05	1.9	< 0.001	< 5	0.11	50.3	0.43	0.7	0.2	70	
GUS13-060 Dup	0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.05	1.9	0.001	< 5	0.11	51.7	0.41	0.7	0.2	70	
GUS13-073 Orig	0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.05	2.2	< 0.001	< 5	0.10	77.9	0.53	0.4	0.3	70	
GUS13-073 Dup	0.2	< 0.1	0.1	< 0.1	< 0.1	< 0.05	2.3	< 0.001	< 5	0.10	82.8	0.57	0.4	0.3	80	
GUS13-087 Orig	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	1.8	< 0.001	< 5	0.10	37.3	0.31	0.7	0.4	30	
GUS13-087 Dup	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	1.5	< 0.001	< 5	0.13	35.3	0.29	0.7	0.3	50	
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	< 0.02	< 0.01	< 0.02	< 0.1	< 0.1	< 10	
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	< 0.02	< 0.01	< 0.02	< 0.1	< 0.1	< 10	
Method Blank																

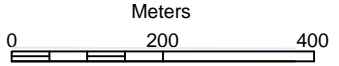


EXPLANATION

- Lower and middle Ordovician: Active Formation, argillite and limestone
- Middle Cambrian: Nelway Formation, limestone and calcareous argillite
- Lower Cambrian: Laib Formation, phyllite and argillite
- Contact
- Thrust fault
- Excavator prospect pits
- 2013 Soil Sample line with sample number
- 2013 Rock Sample line with sample number



Meters



1 : 10,000
UTM Zone 11, NAD 83

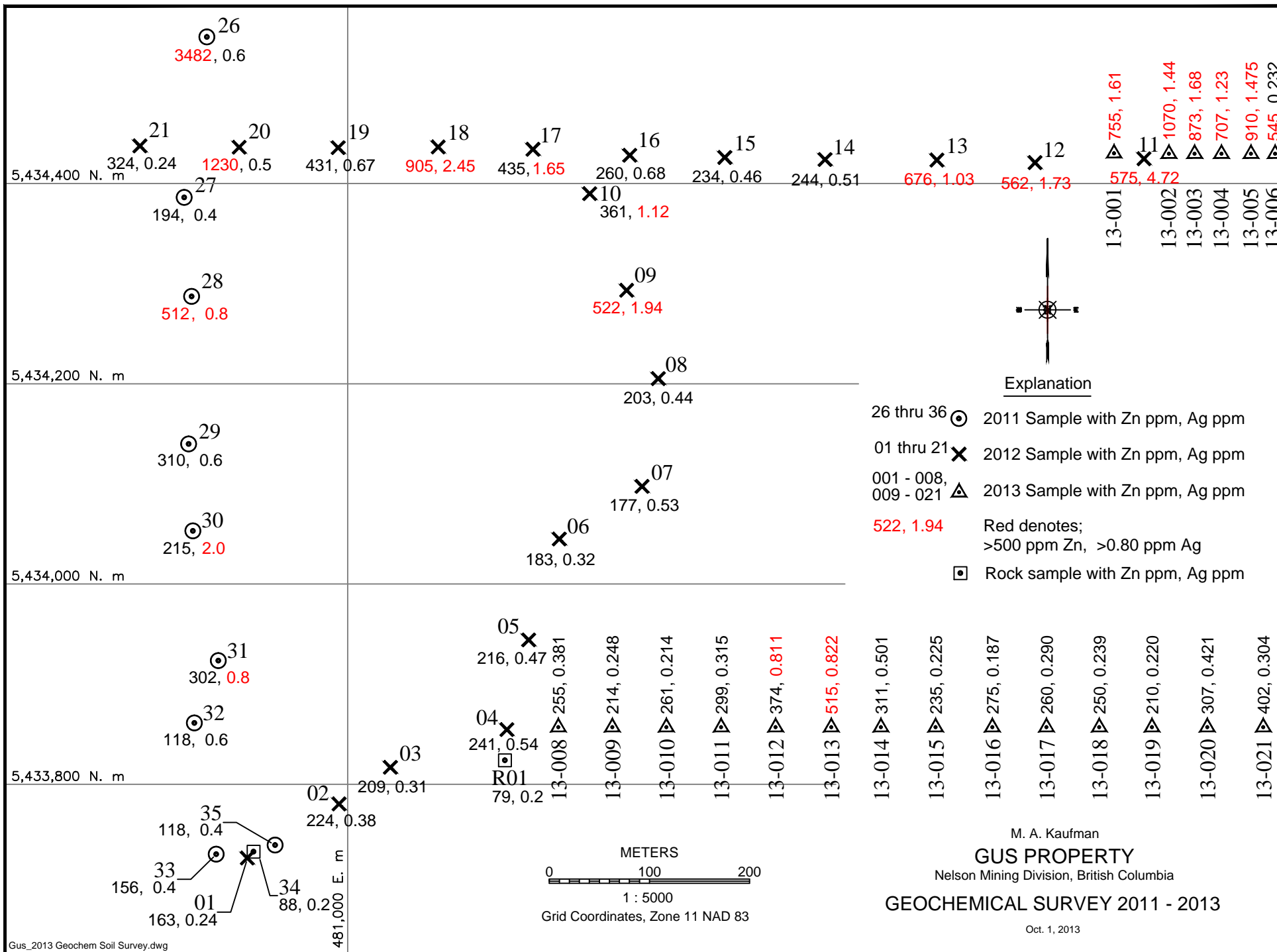
M. A. Kaufman

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Nelson Mining Division, British Columbia

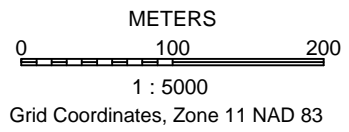
**2013
SOILS GEOCHEMICAL SURVEY**

Oct. 1, 2013

Gus Geo. 2013 Geochem.dwg



- Explanation**
- 26 thru 36 ○ 2011 Sample with Zn ppm, Ag ppm
 - 01 thru 21 × 2012 Sample with Zn ppm, Ag ppm
 - 001 - 008, 009 - 021 ▲ 2013 Sample with Zn ppm, Ag ppm
 - 522, 1.94 Red denotes; >500 ppm Zn, >0.80 ppm Ag
 - Rock sample with Zn ppm, Ag ppm



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GEOCHEMICAL SURVEY 2011 - 2013
 Oct. 1, 2013