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To: ATAC RESOURCES LTD.
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 1016-510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

Page: 1
 Total # Pages: 3 (A - D)
 Plus Appendix Pages
 Finalized Date: 25-SEP-2019
 Account: RCM

CERTIFICATE WH19198339

Project: CN

This report is for 63 Rock samples submitted to our lab in Whitehorse, YT, Canada on 12-AUG-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	JULIA LANE
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS41	Ultra Trace Aqua Regia ICP-MS	
Ag-OG46	Ore Grade Ag - Aqua Regia	
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Pb-OG46	Ore Grade Pb - Aqua Regia	
Zn-OG46	Ore Grade Zn - Aqua Regia	
Ag-GRA21	Ag 30g FA-GRAV finish	WST-SIM
Pb-VOL70	Pb by Titration	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH19198339

Sample Description	Method	WEI-21	Au-AA24	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	0.005	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
W793401		0.50	0.006	0.07	0.37	15.5	<0.02	<10	50	0.16	0.15	0.07	0.02	28.8	6.8	9
W793402		1.98	0.718	14.20	0.27	>10000	0.69	<10	120	0.98	1.05	0.03	63.6	69.7	2.9	7
W793403		1.87	<0.005	1.30	0.81	38.9	<0.02	<10	60	0.31	0.62	0.18	0.43	67.3	0.5	10
W793404		2.05	<0.005	0.09	0.14	8.9	<0.02	<10	20	0.07	3.02	0.04	0.04	3.56	0.3	10
W793405		2.47	<0.005	0.10	4.12	16.7	<0.02	<10	220	1.78	0.29	2.49	0.55	30.6	11.4	73
W793406		1.66	0.059	0.09	1.25	37.8	<0.02	<10	20	0.36	0.06	0.94	0.53	7.95	1.9	4
W793407		2.41	<0.005	0.20	0.21	37.6	<0.02	<10	60	0.07	0.11	0.55	0.09	2.83	7.2	37
W793408		2.45	<0.005	0.96	0.87	67.3	<0.02	<10	200	0.23	2.92	1.16	1.08	2.48	4.2	18
W793409		0.96	0.005	0.06	3.44	5.0	<0.02	<10	200	0.73	0.08	0.93	0.09	12.50	7.4	40
W793410		0.63	<0.005	1.54	1.59	131.0	<0.02	<10	70	0.28	0.28	0.26	2.38	19.45	59.5	23
W793411		0.55	<0.005	0.05	0.46	1.3	<0.02	<10	40	0.43	0.14	0.01	0.04	61.2	1.9	6
W793412		1.13	<0.005	0.26	0.21	87.2	<0.02	<10	30	0.14	0.02	0.04	0.90	2.97	1.3	17
W793413		1.38	<0.005	0.59	0.60	86.6	<0.02	<10	130	0.20	0.13	8.35	2.16	19.20	26.8	17
W793414		1.53	2.57	>100	0.15	1935	1.11	<10	70	0.24	4.09	0.01	3.68	46.3	0.2	13
W793415		2.10	0.492	51.7	0.18	>10000	0.30	<10	380	0.14	3.87	0.12	7.95	6.70	0.8	28
W793416		0.82	0.008	0.87	0.05	86.6	<0.02	<10	30	<0.05	0.05	<0.01	0.06	2.85	0.2	14
W793417		1.09	<0.005	0.43	0.07	245	<0.02	<10	10	0.27	0.74	0.02	0.07	2.56	3.1	14
W793418		0.45	0.012	0.41	0.83	74.6	<0.02	<10	50	1.10	1.09	0.04	0.99	53.2	2.1	4
W793419		1.03	0.600	>100	1.20	>10000	0.67	<10	130	2.06	0.58	0.03	9.51	290	0.3	2
W793420		0.65	0.272	>100	0.28	>10000	0.30	<10	140	1.23	29.2	0.02	32.4	8.42	2.3	4
W793421		1.01	0.491	>100	0.58	>10000	0.53	<10	40	0.48	263	0.04	10.20	16.25	2.5	3
W793422		0.17	0.113	>100	0.52	3780	0.11	<10	10	0.51	56.9	0.02	1.67	3.91	0.8	2
W793423		0.26	0.485	>100	1.50	>10000	0.48	<10	60	1.91	368	0.60	2.23	32.1	5.3	4
W793424		0.83	0.033	36.6	0.89	3100	0.03	<10	<10	0.14	33.0	1.83	111.5	1.48	10.0	9
W793425		1.23	3.17	40.9	1.53	>10000	2.71	<10	<10	0.15	81.2	0.47	103.0	0.58	997	3
W793426		1.25	0.270	18.65	4.42	>10000	0.26	<10	<10	0.48	24.5	0.96	34.4	0.54	67.1	8
W793427		1.96	<0.005	0.56	1.02	86.2	<0.02	<10	40	0.26	2.72	0.37	0.12	13.20	25.3	8
W793428		1.14	1.960	>100	0.45	>10000	1.97	<10	230	0.36	256	0.05	13.00	13.65	2.2	4
W793429		0.59	0.008	2.02	0.64	166.5	<0.02	<10	120	0.39	10.80	0.32	0.10	18.95	1.6	8
W793430		1.48	0.009	2.04	1.25	169.5	<0.02	<10	180	0.55	1.08	0.56	0.26	34.0	5.7	5
K291817		2.02	<0.005	2.91	1.24	490	<0.02	<10	30	0.49	4.33	0.49	13.35	11.50	8.6	21
K291818		1.39	<0.005	0.50	0.93	54.0	<0.02	<10	200	0.38	2.93	0.13	0.24	46.1	0.9	38
K291819		1.33	0.213	>100	0.17	>10000	0.20	<10	120	0.08	9.72	<0.01	48.1	10.05	0.6	11
K291820		2.18	<0.005	1.50	0.35	429	<0.02	<10	20	1.03	1.79	0.01	0.46	24.9	0.6	6
K291821		1.80	2.20	16.55	0.11	>10000	2.25	<10	40	0.14	1.18	0.01	3.97	15.80	0.8	11
K291822		1.73	7.32	81.7	0.04	>10000	7.16	<10	30	<0.05	2.14	0.01	1.69	0.55	0.1	8
K291823		1.65	7.90	>100	0.11	>10000	7.51	<10	20	0.06	18.60	<0.01	16.75	1.50	0.3	2
K291824		2.30	0.046	4.57	1.01	394	0.05	<10	160	0.48	0.10	0.50	7.64	47.6	6.5	8
K291825		1.63	0.779	56.0	0.60	>10000	0.81	<10	100	0.34	2.18	0.01	5.26	24.6	0.3	7
K291826		3.19	1.830	3.26	0.07	>10000	1.82	<10	70	0.06	0.43	<0.01	2.22	3.11	0.2	12



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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
LOD		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
W793401		1.10	31.3	1.68	4.03	<0.05	<0.02	<0.01	0.013	0.14	17.2	5.1	0.09	74	2.12	0.02
W793402		0.92	131.5	5.32	1.88	0.07	0.03	0.16	0.387	0.16	42.1	0.9	0.01	2650	0.95	<0.01
W793403		0.87	20.9	1.54	4.80	0.09	0.02	<0.01	0.219	0.26	31.0	15.7	0.31	338	0.71	0.03
W793404		0.13	60.2	0.74	0.82	<0.05	0.05	<0.01	0.080	0.04	2.2	1.9	0.05	75	0.18	<0.01
W793405		3.09	51.0	1.88	11.50	0.08	0.06	<0.01	0.009	0.39	17.4	9.1	0.52	169	12.85	0.33
W793406		0.92	72.0	2.86	5.88	0.07	0.16	<0.01	0.259	0.01	4.1	8.2	0.99	901	0.15	0.01
W793407		0.31	147.5	1.53	1.65	<0.05	0.05	<0.01	0.019	0.05	1.0	1.2	0.57	178	0.09	0.02
W793408		0.80	163.0	1.88	4.24	0.06	0.09	<0.01	0.058	0.16	1.2	10.6	0.64	686	0.06	0.03
W793409		12.00	25.1	3.62	14.55	0.06	0.03	<0.01	0.020	1.34	5.7	36.3	1.02	267	0.61	0.33
W793410		1.08	405	4.97	7.60	0.06	0.08	0.01	0.098	0.15	8.7	29.1	0.95	1420	0.20	0.02
W793411		0.38	2.4	0.66	2.65	<0.05	0.13	<0.01	0.005	0.24	21.0	3.0	0.16	246	0.54	0.01
W793412		0.18	22.3	1.07	1.57	<0.05	<0.02	<0.01	0.016	0.02	1.7	3.2	0.14	201	0.55	<0.01
W793413		0.27	79.3	2.76	1.77	<0.05	0.05	<0.01	0.012	0.08	8.9	3.6	0.18	1190	1.22	<0.01
W793414		0.05	318	0.69	1.77	<0.05	0.05	6.96	0.178	0.14	32.9	1.2	0.02	27	5.37	<0.01
W793415		0.31	343	6.88	5.55	<0.05	0.04	0.03	0.331	0.21	3.5	1.2	0.01	94	5.82	<0.01
W793416		0.18	19.7	0.69	0.63	<0.05	<0.02	0.04	<0.005	0.05	3.0	0.1	<0.01	33	0.63	0.01
W793417		0.12	101.0	4.90	2.85	0.09	<0.02	0.01	0.032	0.01	0.9	0.3	<0.01	82	5.10	0.01
W793418		2.52	100.0	4.26	5.24	0.07	0.05	0.01	0.068	0.21	24.3	5.2	0.05	137	2.07	<0.01
W793419		8.34	403	5.21	8.93	0.41	0.04	0.10	10.05	0.33	230	1.5	0.02	18	2.23	<0.01
W793420		0.45	3900	14.60	3.65	0.08	0.04	1.59	7.29	0.35	6.5	1.6	0.01	1080	48.6	0.02
W793421		0.55	7660	10.85	6.20	0.07	0.04	0.22	9.73	0.09	9.5	2.1	0.03	204	60.1	0.02
W793422		0.18	393	1.25	8.80	<0.05	0.02	0.10	1.760	0.01	2.7	1.0	0.01	40	114.5	<0.01
W793423		6.29	594	4.05	5.36	0.06	0.08	0.02	0.720	0.16	20.8	13.9	0.26	543	8.23	0.01
W793424		1.64	1120	2.84	3.41	0.15	<0.02	0.02	4.14	0.02	0.8	25.6	0.86	1350	0.42	<0.01
W793425		0.89	414	26.1	5.99	0.58	<0.02	0.01	0.180	0.24	0.3	30.3	1.35	789	10.10	<0.01
W793426		0.64	690	11.10	16.10	0.61	0.03	0.01	0.817	0.02	0.3	107.5	3.87	2600	1.23	<0.01
W793427		0.89	161.0	5.42	5.63	0.10	0.13	<0.01	0.082	0.06	5.5	14.9	0.34	149	1.72	0.03
W793428		0.89	1880	7.10	2.86	0.05	0.03	0.32	6.75	0.17	9.5	2.0	0.03	117	269	0.01
W793429		0.68	110.5	4.15	6.14	0.14	0.37	0.01	0.109	0.14	12.9	5.5	0.30	137	1.29	0.03
W793430		1.61	40.4	1.36	3.39	<0.05	0.04	<0.01	0.032	0.17	16.7	9.0	0.16	402	35.8	0.09
K291817		0.66	168.0	6.42	7.01	0.29	0.11	0.01	0.168	0.03	5.2	11.2	0.40	856	0.78	<0.01
K291818		0.59	26.3	1.99	6.99	0.08	0.23	<0.01	0.041	0.14	24.3	20.9	0.62	265	5.21	0.02
K291819		0.23	194.5	1.47	1.24	<0.05	<0.02	0.04	0.685	0.10	4.9	1.1	0.01	37	0.78	<0.01
K291820		0.47	180.5	7.67	3.26	0.06	0.04	<0.01	0.141	0.20	12.5	5.0	0.01	29	14.35	<0.01
K291821		0.12	111.0	5.51	4.43	<0.05	<0.02	0.01	1.135	0.05	8.7	0.7	<0.01	145	3.61	<0.01
K291822		0.09	125.5	4.80	0.63	<0.05	<0.02	0.10	0.283	0.02	0.4	0.6	<0.01	100	4.94	<0.01
K291823		0.16	2240	7.33	2.47	<0.05	<0.02	0.22	4.22	0.06	1.0	0.5	<0.01	52	4.23	<0.01
K291824		1.60	42.0	3.41	5.21	0.08	0.13	<0.01	0.072	0.24	26.0	20.0	0.52	2230	1.98	0.04
K291825		0.63	240	5.12	4.66	0.05	0.07	0.20	2.74	0.34	14.1	0.8	0.01	61	65.9	0.01
K291826		0.37	81.4	2.24	0.90	<0.05	<0.02	0.02	0.241	0.04	2.0	0.9	<0.01	62	0.69	<0.01



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
W793401		1.11	2.2	300	8.8	8.1	<0.001	0.05	0.07	1.3	<0.2	0.9	8.3	<0.01	0.03	7.8
W793402		0.23	2.0	70	5760	20.7	<0.001	0.86	230	0.9	0.3	3.3	25.1	<0.01	0.06	5.0
W793403		0.09	2.9	840	197.0	24.1	<0.001	<0.01	1.45	1.5	0.3	0.4	4.2	<0.01	0.01	20.4
W793404		0.32	0.6	100	7.8	3.0	<0.001	0.01	0.13	0.1	0.2	1.0	3.1	<0.01	0.04	2.0
W793405		0.44	74.0	830	12.9	31.2	0.017	0.52	0.21	3.3	4.2	0.6	156.5	0.02	0.05	9.3
W793406		0.13	2.5	180	12.7	1.3	<0.001	<0.01	0.97	1.4	<0.2	0.8	36.7	<0.01	<0.01	1.7
W793407		0.08	6.8	90	6.3	6.0	<0.001	0.05	0.28	3.9	0.5	0.4	5.7	<0.01	0.03	0.5
W793408		0.68	8.1	600	118.0	14.2	<0.001	0.04	0.42	5.3	<0.2	1.8	20.2	<0.01	0.05	0.7
W793409		0.30	12.9	520	3.9	124.0	0.001	0.27	0.18	22.3	1.0	0.4	65.9	<0.01	0.04	3.5
W793410		0.48	52.2	520	274	21.1	<0.001	0.02	0.59	14.0	2.2	1.4	5.8	<0.01	0.12	2.6
W793411		0.21	0.9	80	7.7	17.2	<0.001	<0.01	0.08	0.5	<0.2	0.3	3.0	<0.01	0.01	25.1
W793412		0.13	8.5	110	87.4	1.6	<0.001	0.01	0.50	1.1	0.3	0.4	2.7	<0.01	0.01	0.2
W793413		1.70	66.4	950	19.7	3.8	0.002	0.09	0.59	2.0	4.2	1.2	301	0.02	0.12	2.5
W793414		0.47	0.6	80	>10000	6.7	<0.001	0.20	2130	0.4	0.5	0.4	6.5	<0.01	8.20	37.1
W793415		0.08	1.7	710	>10000	13.9	0.003	0.43	125.0	3.6	5.2	6.2	9.4	<0.01	0.26	3.2
W793416		<0.05	0.6	30	77.9	1.9	<0.001	0.03	12.45	0.1	0.3	<0.2	3.6	<0.01	0.06	1.2
W793417		0.05	3.1	20	87.3	0.8	<0.001	<0.01	3.03	0.3	0.6	0.9	1.1	<0.01	0.06	0.2
W793418		0.35	2.8	360	81.9	38.2	<0.001	0.02	4.18	2.6	0.5	1.4	4.4	<0.01	0.03	27.5
W793419		0.12	0.8	100	>10000	33.8	<0.001	1.08	1280	1.6	0.2	13.1	60.8	<0.01	0.02	13.1
W793420		0.09	1.4	660	>10000	20.7	<0.001	1.89	564	0.7	0.4	2.2	115.0	<0.01	0.04	3.6
W793421		0.20	1.1	440	>10000	11.6	<0.001	3.10	1755	0.7	1.4	5.0	41.5	<0.01	0.18	2.9
W793422		0.06	1.2	120	>10000	1.5	<0.001	0.12	382	0.5	2.1	1.7	26.9	<0.01	<0.01	1.1
W793423		0.19	2.6	660	>10000	36.9	<0.001	0.28	134.5	2.6	0.4	1.3	74.8	<0.01	0.48	14.3
W793424		<0.05	5.5	10	>10000	8.0	<0.001	0.90	19.25	2.1	1.8	1.9	10.9	<0.01	0.21	0.3
W793425		0.06	52.8	30	5620	11.2	0.002	9.83	124.0	1.6	14.0	1.2	188.0	<0.01	14.60	<0.2
W793426		<0.05	8.3	110	6080	2.5	0.001	1.62	13.30	1.6	1.6	3.6	12.0	<0.01	0.75	<0.2
W793427		0.64	15.7	1080	61.1	4.8	0.002	2.72	0.54	3.8	0.7	2.7	20.7	<0.01	0.47	2.2
W793428		0.07	0.9	330	>10000	18.2	0.001	0.93	1320	0.9	5.2	2.7	77.6	<0.01	0.28	4.2
W793429		1.99	2.5	1860	220	9.8	<0.001	0.16	3.26	4.4	0.3	3.5	32.9	0.01	0.18	3.5
W793430		0.35	6.8	430	210	18.4	0.001	0.09	4.11	1.6	0.2	0.2	44.4	<0.01	0.01	16.6
K291817		0.84	19.8	560	363	2.3	<0.001	0.04	5.87	2.5	1.0	5.6	28.9	0.02	0.05	5.4
K291818		1.11	3.8	890	75.9	15.1	0.001	0.08	0.81	4.2	0.5	0.7	33.6	<0.01	0.05	11.3
K291819		0.06	2.4	160	7290	9.6	0.001	0.20	1200	0.6	1.4	1.2	2.1	<0.01	0.03	1.5
K291820		2.65	1.0	60	417	20.4	<0.001	0.10	9.49	0.8	4.0	2.2	1.2	0.08	0.15	66.1
K291821		0.06	0.9	100	8860	3.7	0.001	0.24	160.0	0.2	<0.2	0.3	98.4	<0.01	0.01	0.9
K291822		0.09	0.7	70	2660	2.1	0.003	0.14	557	0.3	<0.2	0.6	15.1	<0.01	0.01	0.3
K291823		<0.05	0.4	150	>10000	6.2	0.001	6.97	2120	3.6	0.5	6.7	6.2	<0.01	0.01	3.7
K291824		0.38	4.7	980	1830	32.6	<0.001	0.13	6.36	3.7	<0.2	0.5	22.8	<0.01	<0.01	18.8
K291825		0.05	0.5	750	>10000	30.5	0.001	0.87	322	0.9	<0.2	1.7	338	<0.01	<0.01	3.1
K291826		<0.05	0.6	60	649	5.6	<0.001	0.06	107.5	0.1	<0.2	0.5	15.0	<0.01	<0.01	0.7



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Ag-OG46	Pb-OG46	Zn-OG46	Ag-GRA21	Pb-VOL70
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Pb %	Zn %	Ag ppm	Pb %
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	1	0.001	0.001	5	0.01
W793401		0.042	0.06	3.16	8	0.17	8.00	8	<0.5					
W793402		<0.005	0.25	14.45	2	0.16	20.2	905	0.7					
W793403		<0.005	0.21	2.72	11	<0.05	11.20	241	<0.5					
W793404		0.005	0.04	1.00	1	0.10	1.11	16	1.6					
W793405		0.109	0.50	2.60	82	0.66	8.39	58	1.7					
W793406		0.027	0.02	8.45	13	0.39	5.84	29	4.0					
W793407		0.050	0.08	0.12	23	0.05	1.57	17	0.9					
W793408		0.163	0.20	0.29	59	0.37	5.59	206	1.4					
W793409		0.202	0.95	0.65	142	0.11	4.97	43	<0.5					
W793410		0.102	0.22	2.67	65	0.45	12.30	486	1.5					
W793411		0.007	0.13	2.14	2	0.07	4.75	69	4.6					
W793412		0.013	0.03	0.43	18	0.06	1.55	91	<0.5					
W793413		0.181	0.15	0.86	11	0.23	9.43	109	1.3					
W793414		<0.005	0.15	41.0	1	0.05	1.55	36	2.0	157	1.070			
W793415		0.013	0.41	0.85	42	0.69	0.75	180	2.1		2.22			
W793416		<0.005	0.07	0.91	1	<0.05	0.68	9	0.6					
W793417		<0.005	0.04	0.42	5	0.24	0.99	7	<0.5					
W793418		<0.005	0.43	3.71	7	0.05	8.11	137	1.5					
W793419		<0.005	0.33	21.5	2	0.18	13.05	907	0.9	117	7.83			
W793420		<0.005	0.31	23.1	18	6.60	2.46	1380	1.3	260	8.83			
W793421		0.007	0.12	5.19	8	3.21	1.57	290	1.1	1130	18.95			
W793422		<0.005	0.02	4.71	4	2.26	0.83	108	0.7	1425	>20.0			55.03
W793423		0.012	0.22	7.42	27	0.41	5.45	277	1.9	260	3.71			
W793424		<0.005	0.24	0.18	17	<0.05	1.36	>10000	<0.5		1.590	2.07		
W793425		<0.005	0.31	0.11	18	<0.05	1.17	5770	<0.5					
W793426		0.011	0.11	0.17	18	0.08	3.30	5070	0.7					
W793427		0.127	0.10	0.91	54	5.32	7.28	31	2.8					
W793428		<0.005	0.21	46.6	7	128.0	2.85	561	0.9	642	6.24			
W793429		0.213	0.10	1.48	77	3.45	3.37	18	7.7					
W793430		0.019	0.18	3.19	15	0.66	5.80	35	1.9					
K291817		0.129	0.55	1.19	20	0.18	2.84	1490	1.7					
K291818		0.079	0.23	4.77	72	1.98	6.79	44	8.2					
K291819		<0.005	0.38	2.47	5	1.83	0.87	204	<0.5	207				
K291820		<0.005	0.17	5.40	1	6.83	8.48	110	1.3					
K291821		<0.005	0.10	5.32	2	0.74	0.45	239	<0.5					
K291822		<0.005	0.05	2.60	1	390	0.14	41	<0.5					
K291823		<0.005	0.63	11.00	5	11.95	0.31	222	<0.5	>1500	>20.0		1485	43.96
K291824		0.056	0.27	2.76	55	4.00	11.10	1080	2.8					
K291825		<0.005	0.35	51.4	8	71.5	1.19	312	2.7		4.05			
K291826		<0.005	0.06	2.21	1	0.51	0.25	56	<0.5					



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Sample Description	Method Analyte Units LOD	WEI-21	Au-AA24	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.005	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
K291827		1.87	0.015	1.44	0.73	228	<0.02	<10	170	0.22	0.09	0.49	0.47	40.0	4.5	9
K291828		1.90	5.91	>100	0.49	>10000	5.97	<10	20	0.32	21.9	0.01	11.30	2.26	0.7	4
K291829		2.05	0.008	0.68	0.49	91.9	<0.02	<10	100	0.43	0.35	0.15	0.19	45.6	4.4	5
K291830		0.43	0.138	7.27	0.08	1110	0.14	<10	10	0.05	0.67	0.02	0.27	0.74	2.1	9
K291831		0.72	<0.005	0.23	0.25	16.0	<0.02	<10	100	0.11	2.45	0.01	0.03	1.14	0.1	2
K291832		0.40	0.005	0.80	0.36	24.2	<0.02	<10	100	0.15	0.63	0.01	0.04	3.31	0.1	4
K291833		1.11	<0.005	0.17	0.03	19.0	<0.02	<10	10	<0.05	0.27	<0.01	0.02	0.45	0.5	14
K291834		0.46	0.408	>100	0.54	>10000	0.40	<10	50	0.63	162.5	0.02	4.53	48.1	1.2	4
K291835		0.75	0.256	>100	0.25	>10000	0.31	<10	50	0.23	5.17	0.02	1.10	16.70	0.8	5
K291836		0.41	0.464	>100	0.65	>10000	0.38	<10	110	0.44	15.75	0.02	26.6	56.0	1.2	4
K291837		1.36	<0.005	8.41	0.27	166.5	<0.02	<10	80	0.27	140.5	0.03	0.06	29.5	0.4	4
K291838		2.11	0.007	6.06	0.63	691	<0.02	<10	250	0.43	0.71	0.20	1.00	52.2	4.9	6
K291839		2.64	<0.005	0.18	0.65	27.1	<0.02	<10	100	0.35	0.53	0.25	0.12	42.3	4.1	7
K291840		2.98	<0.005	0.27	0.69	41.8	<0.02	<10	110	0.39	0.57	0.26	0.14	47.0	5.4	5
K291841		2.13	<0.005	0.08	0.68	33.4	<0.02	<10	100	0.50	0.31	0.20	0.27	53.2	5.0	5
K291842		3.24	<0.005	0.25	0.62	57.9	<0.02	<10	100	0.40	0.37	0.21	0.22	132.5	3.8	5
K291843		3.00	<0.005	0.07	0.63	33.6	<0.02	<10	100	0.38	1.21	0.25	0.20	43.7	3.9	5
K291844		1.64	0.005	0.10	0.53	27.0	<0.02	<10	110	0.36	0.75	0.22	0.18	43.5	3.5	5
K291845		2.37	<0.005	0.07	0.60	36.7	<0.02	<10	110	0.37	0.41	0.26	0.14	44.4	3.2	6
K291846		4.92	<0.005	0.12	0.89	65.5	<0.02	<10	140	0.44	1.63	0.37	0.17	44.4	4.0	7
K291847		5.26	<0.005	0.12	0.83	96.9	<0.02	<10	150	0.62	1.57	0.29	0.32	47.7	4.5	6
K291848		0.31	0.069	4.46	0.18	815	0.07	<10	350	0.27	9.50	0.03	3.08	20.0	14.4	4
K291849		1.22	<0.005	0.26	1.16	7.4	<0.02	<10	30	0.22	0.95	0.87	0.01	27.5	4.5	14



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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
LOD		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
K291827		1.16	29.6	3.16	4.83	0.09	0.16	<0.01	0.041	0.25	22.8	9.8	0.46	241	1.24	0.07
K291828		0.22	1720	10.05	2.08	0.06	0.02	0.36	85.8	0.13	1.3	1.2	0.01	169	239	<0.01
K291829		1.32	96.5	1.12	2.02	<0.05	0.03	<0.01	0.112	0.18	24.2	4.9	0.08	636	25.1	0.03
K291830		0.08	61.4	1.11	0.86	<0.05	<0.02	0.01	1.630	0.03	0.5	0.5	0.01	47	6.29	<0.01
K291831		0.31	1.5	1.93	0.63	<0.05	<0.02	<0.01	0.015	0.25	0.6	0.4	0.01	9	3.05	0.12
K291832		0.77	2.8	0.53	0.60	<0.05	<0.02	<0.01	0.023	0.28	1.5	1.1	0.01	22	1.33	0.03
K291833		0.05	3.0	0.55	0.34	<0.05	<0.02	<0.01	0.009	0.03	0.4	0.2	<0.01	30	0.33	<0.01
K291834		0.45	939	8.48	13.85	0.07	0.03	0.24	5.67	0.31	32.7	0.6	0.01	96	0.86	0.01
K291835		0.60	591	8.39	9.95	0.05	0.03	0.06	8.851	0.61	16.3	0.7	0.01	77	18.20	0.13
K291836		0.39	1450	13.35	21.6	0.08	0.04	0.45	16.10	0.49	52.7	0.9	0.01	131	7.16	0.23
K291837		0.84	60.7	1.61	1.70	<0.05	0.15	0.01	0.040	0.23	23.5	0.6	0.02	90	243	<0.01
K291838		1.64	44.3	1.92	3.79	0.05	0.11	0.01	0.218	0.19	34.0	11.5	0.23	2390	52.9	0.04
K291839		1.35	21.8	1.77	4.04	0.06	0.17	<0.01	0.014	0.17	22.8	14.6	0.31	523	30.3	0.04
K291840		1.74	24.2	1.77	3.81	0.06	0.18	<0.01	0.016	0.18	25.2	12.3	0.28	654	48.9	0.05
K291841		1.95	31.0	1.45	3.12	0.05	0.11	<0.01	0.011	0.18	26.4	10.0	0.20	627	57.4	0.04
K291842		1.70	21.4	1.51	3.14	0.06	0.18	<0.01	0.014	0.17	136.5	8.1	0.17	477	36.8	0.05
K291843		1.40	24.1	1.77	3.33	0.05	0.19	<0.01	0.010	0.15	22.2	10.1	0.23	454	30.1	0.05
K291844		1.33	21.0	1.63	2.81	<0.05	0.18	<0.01	0.014	0.18	21.6	6.7	0.16	785	57.5	0.05
K291845		1.27	25.4	1.60	3.64	0.05	0.27	<0.01	0.014	0.17	26.1	11.3	0.26	476	23.7	0.06
K291846		1.71	38.7	2.14	4.96	0.07	0.16	<0.01	0.012	0.16	27.8	14.1	0.35	438	29.4	0.05
K291847		3.11	32.6	2.20	4.49	0.06	0.14	<0.01	0.021	0.17	28.0	11.4	0.25	804	60.7	0.04
K291848		0.41	241	4.26	1.28	<0.05	0.03	0.01	1.955	0.09	8.4	1.5	0.02	28500	130.5	0.01
K291849		1.24	380	3.05	5.38	0.07	0.17	<0.01	0.008	0.03	17.2	4.3	0.07	88	1.45	0.16



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		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
K291827		0.93	2.1	1090	348	25.6	<0.001	0.02	2.91	1.3	<0.2	0.8	31.5	<0.01	<0.01	15.8
K291828		0.05	0.6	1020	>10000	9.0	0.001	1.87	1775	2.0	4.8	2.7	2.7	<0.01	0.12	3.3
K291829		0.23	2.9	420	247	19.7	<0.001	0.02	3.67	2.1	<0.2	0.3	9.3	<0.01	<0.01	16.1
K291830		0.21	1.9	60	3520	1.5	<0.001	0.08	36.6	0.2	<0.2	0.4	2.5	<0.01	0.08	0.3
K291831		0.07	0.2	50	41.2	12.7	<0.001	0.56	0.43	0.4	1.0	<0.2	7.2	<0.01	0.10	1.4
K291832		0.06	0.3	20	140.5	14.9	<0.001	0.23	1.37	0.2	0.7	0.2	4.0	<0.01	0.11	1.9
K291833		0.12	1.0	20	33.7	1.3	<0.001	0.04	0.44	0.1	<0.2	<0.2	2.1	<0.01	0.10	<0.2
K291834		0.05	0.8	200	>10000	14.7	<0.001	1.65	1295	1.6	0.2	3.5	124.5	<0.01	0.55	6.6
K291835		0.05	0.5	280	>10000	48.1	<0.001	2.05	262	0.6	<0.2	1.1	339	<0.01	0.12	3.3
K291836		0.07	1.0	590	>10000	26.5	<0.001	2.72	1100	5.7	0.2	1.1	250	<0.01	0.08	7.1
K291837		<0.05	0.7	330	758	20.7	0.004	0.10	4.65	0.6	0.2	<0.2	32.3	<0.01	0.25	18.9
K291838		0.45	4.1	590	1060	23.1	<0.001	0.05	15.25	1.5	<0.2	0.3	26.1	<0.01	<0.01	19.3
K291839		0.77	2.8	690	39.2	18.4	<0.001	0.01	0.47	1.9	<0.2	0.5	19.4	<0.01	<0.01	20.6
K291840		0.71	3.3	710	47.3	21.4	0.001	0.01	0.81	1.8	0.3	0.4	17.9	<0.01	0.01	22.2
K291841		0.21	2.7	630	18.1	22.1	<0.001	0.01	0.37	1.6	0.5	0.2	18.8	<0.01	0.01	20.4
K291842		0.38	2.5	550	25.9	18.7	0.001	0.01	0.50	1.5	<0.2	0.3	16.4	<0.01	0.01	24.6
K291843		0.86	2.5	650	17.4	17.3	<0.001	0.01	0.31	1.6	0.3	0.4	32.5	<0.01	0.01	21.2
K291844		0.76	2.3	640	20.0	23.0	<0.001	0.01	0.38	1.7	0.2	0.4	17.2	<0.01	<0.01	22.1
K291845		1.02	2.8	650	12.9	19.2	<0.001	0.01	0.28	1.6	<0.2	0.6	20.7	<0.01	<0.01	28.6
K291846		1.14	3.6	810	18.8	19.0	<0.001	0.01	0.32	2.4	0.3	0.9	53.4	<0.01	0.02	24.2
K291847		0.69	4.2	760	20.5	25.6	0.001	0.01	0.35	2.4	0.5	0.5	45.4	<0.01	0.01	24.1
K291848		0.06	3.8	90	743	7.2	0.001	0.07	6.92	0.7	0.3	0.2	39.9	<0.01	0.03	3.4
K291849		0.46	4.3	730	7.4	1.3	0.002	1.53	0.20	0.8	3.3	0.5	53.5	<0.01	0.81	2.6



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Ag-OG46	Pb-OG46	Zn-OG46	Ag-GRA21	Pb-VOL70
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Pb %	Zn %	Ag ppm	Pb %
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	1	0.001	0.001	5	0.01
K291827		0.153	0.17	2.17	68	7.70	8.53	90	3.0					
K291828		<0.005	0.22	17.15	9	8.39	0.56	708	1.0	336	16.95			
K291829		0.012	0.21	2.49	9	0.54	5.25	20	1.4					
K291830		0.011	0.02	0.73	4	0.29	0.28	18	<0.5					
K291831		<0.005	0.10	0.09	1	0.08	0.50	2	0.8					
K291832		<0.005	0.08	0.13	2	0.44	0.82	5	0.6					
K291833		0.005	<0.02	0.07	2	<0.05	0.06	2	<0.5					
K291834		<0.005	0.24	5.20	11	0.51	0.94	984	0.8	708	9.21			
K291835		<0.005	0.59	2.11	8	5.09	0.41	270	0.9	134	4.80			
K291836		<0.005	0.45	11.70	24	1.10	1.29	638	1.6	426	8.58			
K291837		<0.005	0.18	8.86	2	1.00	2.12	10	4.2					
K291838		0.031	0.22	2.71	26	1.13	5.90	66	3.5					
K291839		0.057	0.17	1.54	32	0.72	5.85	27	4.6					
K291840		0.050	0.22	1.95	31	0.40	5.05	31	3.9					
K291841		0.013	0.21	2.59	21	0.46	5.23	26	3.6					
K291842		0.021	0.22	2.38	23	2.47	5.19	29	4.5					
K291843		0.048	0.17	1.96	31	0.46	5.58	36	5.1					
K291844		0.041	0.22	2.21	29	0.31	4.91	33	4.7					
K291845		0.070	0.21	2.34	32	9.60	4.97	23	6.2					
K291846		0.097	0.16	2.35	45	2.14	5.80	30	3.6					
K291847		0.043	0.23	4.93	38	1.36	5.83	37	4.5					
K291848		<0.005	0.20	6.21	8	0.29	4.93	184	1.0					
K291849		0.147	0.10	0.82	16	0.14	10.95	4	3.7					



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CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
CRU-31 CRU-QC LOG-21 PUL-31
PUL-QC SPL-21 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Ag-GRA21 Ag-OG46 Au-AA24 ME-MS41
ME-OG46 Pb-OG46 Pb-VOL70 Zn-OG46



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This report is for 200 Soil samples submitted to our lab in Whitehorse, YT, Canada on 12-AUG-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	JULIA LANE	
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	Ultra Trace Aqua Regia ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
YY11001		0.42	0.007	0.06	1.93	35.4	<0.02	<10	120	1.04	0.22	0.18	0.32	46.1	10.9	27
YY11002		0.36	0.003	0.71	2.44	145.0	<0.02	<10	220	1.04	2.94	0.20	1.40	53.4	9.3	50
YY11003		0.46	0.001	0.07	2.04	11.8	<0.02	<10	130	0.52	0.20	0.12	0.22	27.6	6.7	26
YY11004		0.25	<0.001	0.06	0.73	7.9	<0.02	<10	40	0.17	0.17	0.07	0.10	10.60	2.6	13
YY11005		0.41	0.002	0.05	2.02	24.9	<0.02	<10	140	1.02	0.25	0.23	0.14	35.3	7.5	28
YY11006		0.45	0.004	0.03	2.02	15.2	<0.02	<10	150	1.07	0.17	0.24	0.31	30.3	15.5	25
YY11007		0.35	0.003	0.08	2.29	10.8	<0.02	<10	140	0.57	0.18	0.13	0.35	22.1	7.9	31
YY11008		0.42	0.002	0.16	1.95	11.5	<0.02	<10	90	0.51	0.25	0.08	0.43	21.8	5.1	25
YY11009		0.30	0.005	0.27	1.72	14.9	<0.02	<10	110	0.40	0.43	0.09	0.15	20.5	5.1	24
YY11010		0.33	0.003	0.15	1.67	31.2	<0.02	<10	120	0.65	0.35	0.20	0.43	25.3	7.3	25
YY11011		0.33	0.004	2.65	2.10	407	<0.02	<10	290	0.78	1.25	0.21	1.99	31.7	7.8	29
YY11012		0.45	0.005	0.95	1.77	205	<0.02	<10	160	0.70	0.58	0.22	1.16	30.1	8.8	29
YY11013		0.30	0.001	0.49	1.19	81.0	0.05	<10	90	0.28	0.40	0.13	0.92	17.80	3.9	24
YY11014		0.35	0.004	1.42	1.64	123.5	<0.02	<10	180	0.56	0.47	0.18	0.90	19.25	5.3	26
YY11015		0.39	0.013	1.44	2.12	342	<0.02	<10	180	0.85	0.73	0.24	1.46	23.2	6.8	28
YY11016		0.34	0.009	6.95	2.28	255	<0.02	<10	200	0.87	0.62	0.34	1.83	33.0	17.3	27
YY11017		0.32	0.007	2.41	2.12	249	<0.02	<10	180	0.80	0.57	0.32	1.87	29.5	19.2	26
YY11018		0.27	0.007	3.62	2.35	324	<0.02	<10	220	0.93	0.90	0.42	2.36	27.7	8.5	22
YY11019		0.33	0.010	3.43	2.50	336	<0.02	<10	240	1.03	0.74	0.42	1.77	33.2	10.3	24
YY11020		0.27	0.003	1.14	1.02	134.0	<0.02	<10	60	0.21	0.26	0.20	0.53	14.10	3.5	9
YY11021		0.20	0.005	0.63	1.03	23.2	<0.02	<10	100	0.26	0.19	0.17	0.46	15.75	3.7	17
YY11022		0.28	0.001	0.12	1.27	9.1	<0.02	<10	80	0.32	0.22	0.13	0.21	20.4	5.1	22
YY11023		0.27	0.001	0.30	1.84	27.1	<0.02	<10	150	0.63	0.22	0.18	0.24	23.7	7.3	27
YY11024		0.24	<0.001	0.13	1.70	13.8	<0.02	<10	150	0.65	0.20	0.10	0.26	27.4	5.3	23
YY11025		0.29	0.001	0.08	1.02	5.7	<0.02	<10	40	0.18	0.17	0.05	0.06	13.20	2.4	14
YY11026		0.27	<0.001	0.09	1.53	15.8	<0.02	<10	90	0.59	0.20	0.10	0.17	15.75	4.8	17
YY11027		0.23	<0.001	0.09	0.84	6.2	<0.02	<10	80	0.39	0.13	0.09	0.15	12.00	2.6	14
YY11028		0.35	0.003	0.18	1.92	44.3	<0.02	<10	160	0.73	0.24	0.21	0.38	28.2	7.7	28
YY11029		0.26	0.005	0.31	2.39	58.1	<0.02	<10	230	1.22	0.35	0.22	0.40	35.6	9.5	31
YY11030		0.47	0.002	0.14	2.44	66.0	<0.02	<10	200	1.39	0.27	0.22	0.33	37.8	10.4	37
YY11031		0.26	<0.001	0.18	1.01	8.5	<0.02	<10	60	0.23	0.15	0.07	0.13	13.60	2.0	12
YY11032		0.42	0.003	0.10	2.12	30.3	<0.02	<10	150	0.78	0.35	0.15	0.27	33.5	8.9	31
YY11033		0.33	0.002	0.30	2.06	37.8	<0.02	<10	200	0.86	0.46	0.24	0.40	32.6	7.7	26
YY11034		0.43	0.007	0.07	2.31	27.2	<0.02	<10	130	0.83	0.24	0.18	0.30	33.4	9.1	29
YY11035		0.39	0.002	0.13	2.39	23.2	<0.02	<10	100	0.71	0.28	0.11	0.27	30.8	8.4	27
YY11036		0.42	0.005	0.19	2.02	40.9	0.03	<10	140	0.77	0.54	0.18	0.23	35.5	8.0	26
YY11037		0.40	0.005	0.65	2.52	144.5	<0.02	<10	180	1.26	2.08	0.12	0.47	46.1	9.1	34
YY11038		0.46	0.004	0.51	1.91	59.5	<0.02	<10	120	0.96	2.33	0.22	0.36	47.3	8.7	26
YY11039		0.39	0.005	0.15	2.31	59.6	<0.02	<10	100	0.53	0.44	0.12	0.25	28.0	8.3	31
YY11040		0.43	0.017	0.74	2.23	373	<0.02	<10	240	0.97	5.98	0.25	0.60	83.2	9.6	36



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY11001		2.75	22.2	3.27	7.05	0.08	0.04	0.03	0.026	0.20	24.8	21.1	0.51	281	1.91	0.02
YY11002		4.99	51.5	3.64	9.92	0.10	0.04	0.03	0.042	0.50	27.7	30.0	0.82	209	2.94	0.02
YY11003		1.61	16.8	2.91	8.35	0.05	0.02	0.08	0.023	0.10	14.3	18.6	0.39	230	1.70	0.01
YY11004		0.81	9.5	1.33	4.02	<0.05	<0.02	0.03	0.010	0.04	5.5	3.9	0.14	76	1.01	0.02
YY11005		2.49	21.9	3.03	6.84	0.07	0.03	0.03	0.024	0.16	17.9	16.7	0.55	192	1.34	0.01
YY11006		3.87	21.4	2.86	6.91	0.09	0.04	0.02	0.024	0.26	14.9	22.5	0.59	395	1.47	0.02
YY11007		1.39	17.7	2.93	6.61	<0.05	0.02	0.07	0.025	0.07	10.4	17.1	0.43	285	1.34	0.01
YY11008		1.33	13.8	3.16	8.52	<0.05	0.02	0.04	0.022	0.04	10.9	14.2	0.26	186	1.63	0.01
YY11009		3.00	15.5	3.07	10.45	<0.05	0.03	0.02	0.022	0.09	10.8	12.6	0.31	169	2.16	0.01
YY11010		1.88	21.5	2.40	6.06	0.05	0.02	0.03	0.022	0.09	12.8	13.6	0.43	263	1.17	0.02
YY11011		2.94	30.6	3.33	8.61	0.05	0.02	0.05	0.051	0.13	17.0	16.3	0.47	335	2.50	0.02
YY11012		1.87	29.8	2.68	6.01	0.06	0.02	0.04	0.040	0.12	15.5	16.3	0.49	392	1.79	0.02
YY11013		1.68	17.9	1.73	5.00	<0.05	<0.02	0.03	0.025	0.07	9.3	9.1	0.30	178	1.19	0.01
YY11014		2.19	40.2	1.97	6.07	0.05	<0.02	0.04	0.034	0.08	9.5	11.6	0.43	172	1.51	0.02
YY11015		2.81	47.4	2.59	7.69	0.05	<0.02	0.05	0.045	0.11	12.5	16.8	0.48	506	3.59	0.02
YY11016		2.22	82.6	2.92	7.69	0.06	<0.02	0.07	0.111	0.11	16.4	16.3	0.53	1360	3.25	0.02
YY11017		2.33	57.0	2.79	7.94	0.05	0.02	0.07	0.048	0.12	15.7	16.9	0.55	954	4.39	0.02
YY11018		2.46	42.1	2.88	8.28	0.08	0.02	0.07	0.065	0.10	15.7	17.3	0.48	619	3.25	0.02
YY11019		3.27	51.4	2.81	8.55	0.08	0.02	0.09	0.062	0.08	19.0	18.4	0.45	740	3.23	0.02
YY11020		1.58	12.0	1.52	4.44	<0.05	<0.02	0.04	0.027	0.04	7.5	5.9	0.15	251	0.94	0.02
YY11021		0.96	9.7	1.56	5.92	<0.05	0.02	0.05	0.022	0.07	7.6	6.7	0.23	146	0.90	0.02
YY11022		0.98	11.1	2.11	7.34	0.05	0.02	0.05	0.020	0.07	9.4	9.1	0.27	174	1.58	0.01
YY11023		1.53	15.9	2.49	7.06	0.05	0.02	0.03	0.025	0.08	11.6	14.7	0.45	342	1.50	0.02
YY11024		1.50	14.7	2.16	6.23	0.05	0.02	0.06	0.024	0.05	13.8	9.9	0.28	170	1.57	0.02
YY11025		0.94	8.0	1.65	6.34	<0.05	0.02	0.03	0.017	0.03	6.4	4.8	0.11	114	0.93	0.02
YY11026		1.22	11.9	1.90	5.88	<0.05	0.02	0.06	0.019	0.05	7.4	9.5	0.22	203	1.29	0.02
YY11027		0.93	9.7	1.15	3.78	<0.05	<0.02	0.03	0.015	0.05	5.6	4.6	0.14	85	0.88	0.02
YY11028		1.56	18.2	2.61	6.81	0.06	0.02	0.04	0.031	0.08	13.9	15.6	0.45	337	1.68	0.02
YY11029		2.60	26.4	3.14	8.92	0.07	0.02	0.04	0.038	0.13	16.8	20.9	0.55	450	1.81	0.02
YY11030		3.02	23.4	3.22	8.10	0.08	0.04	0.04	0.036	0.14	18.6	27.9	0.68	389	1.46	0.01
YY11031		0.79	8.6	1.15	4.63	<0.05	<0.02	0.05	0.014	0.03	6.6	3.8	0.10	69	0.89	0.02
YY11032		1.79	20.6	3.04	7.68	0.07	0.03	0.03	0.029	0.09	16.7	17.4	0.47	350	1.97	0.01
YY11033		2.29	27.8	2.87	7.92	0.07	0.02	0.05	0.031	0.11	16.7	16.2	0.47	240	2.22	0.02
YY11034		1.99	21.6	3.04	6.97	0.07	0.06	0.04	0.032	0.12	16.7	19.8	0.48	290	1.43	0.02
YY11035		1.74	19.2	3.02	7.68	0.05	0.02	0.06	0.035	0.07	14.5	18.0	0.36	275	1.49	0.02
YY11036		1.70	22.5	2.74	7.06	0.06	0.02	0.04	0.029	0.09	16.9	14.7	0.41	245	1.37	0.02
YY11037		3.65	32.6	4.30	11.05	0.09	0.05	0.06	0.046	0.12	22.8	19.5	0.47	273	3.26	0.02
YY11038		2.45	25.6	3.43	6.38	0.08	0.03	0.04	0.068	0.14	25.0	17.5	0.48	299	1.37	0.02
YY11039		1.16	19.2	2.94	7.46	0.05	0.03	0.05	0.029	0.06	13.0	16.0	0.39	286	1.77	0.01
YY11040		3.35	69.9	4.61	10.20	0.13	0.04	0.04	0.063	0.24	41.2	23.1	0.58	178	3.78	0.02



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY11001		3.42	20.1	620	18.1	31.3	<0.001	0.05	3.13	4.5	0.7	1.8	16.9	0.01	0.02	12.8
YY11002		3.42	24.4	630	135.5	68.3	<0.001	0.06	23.5	7.1	0.6	2.6	24.5	<0.01	0.04	19.7
YY11003		3.26	17.0	330	11.4	19.1	<0.001	0.03	0.76	3.5	0.3	1.4	13.0	0.01	0.03	6.2
YY11004		0.82	6.4	340	5.9	5.9	<0.001	0.03	0.51	0.8	0.3	0.5	9.4	<0.01	0.03	0.5
YY11005		2.47	18.1	590	12.3	27.7	<0.001	0.01	0.97	4.6	0.4	1.3	23.8	<0.01	0.03	9.3
YY11006		2.23	22.0	790	18.3	37.7	<0.001	0.02	0.69	5.1	<0.2	2.3	20.5	<0.01	0.03	6.0
YY11007		1.44	20.6	440	11.1	12.7	<0.001	0.04	0.59	3.0	0.4	1.1	13.9	0.01	0.04	2.0
YY11008		1.79	12.8	300	15.9	9.2	<0.001	0.02	0.65	2.5	0.3	1.1	10.4	0.01	0.04	2.7
YY11009		2.45	12.6	330	24.4	15.4	<0.001	0.03	0.74	3.2	0.2	2.2	13.7	<0.01	0.05	3.1
YY11010		1.32	16.7	700	26.4	14.4	<0.001	0.03	0.75	2.9	0.2	1.4	17.4	<0.01	0.04	2.4
YY11011		1.52	20.8	670	572	26.0	<0.001	0.08	9.16	3.4	0.3	1.7	25.7	<0.01	0.05	3.4
YY11012		1.20	19.2	670	171.5	19.7	<0.001	0.04	3.00	3.8	0.2	1.1	19.3	<0.01	0.04	4.0
YY11013		0.87	12.2	500	90.2	13.0	<0.001	0.03	1.46	1.7	0.2	0.6	14.0	<0.01	0.03	0.8
YY11014		0.75	17.9	710	86.8	12.4	<0.001	0.06	1.40	1.8	0.4	0.6	21.4	<0.01	0.06	0.3
YY11015		1.22	16.2	720	124.0	24.2	<0.001	0.05	2.76	2.9	0.5	1.0	32.6	<0.01	0.03	1.3
YY11016		1.72	15.7	790	881	23.2	<0.001	0.04	6.99	4.2	0.8	1.1	48.9	<0.01	0.03	3.2
YY11017		2.08	15.5	840	285	25.8	<0.001	0.05	2.74	3.8	0.6	1.0	45.9	<0.01	0.03	3.6
YY11018		1.73	13.7	840	465	22.1	0.001	0.04	5.20	3.3	0.6	0.7	70.9	<0.01	0.02	4.8
YY11019		1.46	17.6	810	363	20.1	<0.001	0.05	4.05	3.6	0.3	0.6	69.3	<0.01	0.04	4.4
YY11020		0.96	4.6	450	145.5	7.0	<0.001	0.02	1.48	1.2	0.2	0.3	45.5	0.01	0.02	1.4
YY11021		1.46	7.9	550	39.1	9.0	<0.001	0.04	0.44	1.7	0.3	0.9	21.9	<0.01	0.02	0.7
YY11022		1.86	13.4	380	11.7	9.2	<0.001	0.03	0.45	2.5	0.8	1.0	14.0	<0.01	0.05	1.8
YY11023		1.13	16.5	570	18.7	16.6	<0.001	0.04	0.50	2.7	0.4	1.0	19.8	<0.01	0.03	0.8
YY11024		1.09	13.2	700	14.1	10.2	<0.001	0.07	0.43	1.7	0.5	0.7	14.2	<0.01	0.04	0.3
YY11025		1.21	6.2	270	8.3	4.6	<0.001	0.03	0.27	1.1	<0.2	0.6	7.8	<0.01	0.04	0.5
YY11026		1.37	10.1	450	12.1	8.4	<0.001	0.03	0.37	1.9	0.2	0.6	11.5	0.01	0.03	1.7
YY11027		0.53	7.9	490	8.2	8.3	<0.001	0.04	0.24	0.9	0.6	0.5	13.2	<0.01	0.03	<0.2
YY11028		1.23	18.8	730	21.7	15.6	<0.001	0.03	0.66	2.9	0.6	1.6	18.4	<0.01	0.03	1.6
YY11029		1.59	22.3	730	33.1	22.7	<0.001	0.04	1.00	4.2	0.5	1.9	22.9	<0.01	0.05	3.0
YY11030		2.01	26.2	720	22.6	23.0	<0.001	0.02	0.87	5.2	0.8	1.9	18.6	<0.01	0.04	6.5
YY11031		0.58	5.5	330	7.7	4.3	<0.001	0.03	0.29	0.7	0.5	0.6	9.7	<0.01	0.03	<0.2
YY11032		1.60	20.9	560	17.1	17.7	0.001	0.02	0.90	4.1	0.4	1.5	16.6	<0.01	0.03	4.3
YY11033		1.39	19.9	800	23.3	20.8	<0.001	0.08	1.34	3.0	0.4	2.1	30.0	<0.01	0.04	1.8
YY11034		1.77	21.4	570	14.7	20.4	<0.001	0.04	0.86	4.2	0.4	2.3	18.6	<0.01	0.04	7.7
YY11035		1.87	20.1	530	14.8	13.2	0.001	0.04	0.69	3.5	0.4	2.0	14.1	0.01	0.04	4.2
YY11036		1.61	19.8	690	18.5	13.6	<0.001	0.06	0.79	3.2	0.5	1.6	18.5	<0.01	0.04	2.6
YY11037		2.33	23.3	530	58.5	29.5	<0.001	0.06	1.48	5.1	0.6	2.7	21.3	<0.01	0.08	7.8
YY11038		1.76	20.0	800	140.0	20.3	<0.001	0.12	1.07	3.6	0.5	1.6	21.4	<0.01	0.03	8.3
YY11039		1.70	22.1	360	15.6	10.7	0.001	0.04	0.75	3.3	0.5	0.9	13.3	0.01	0.04	2.6
YY11040		2.51	23.0	790	82.3	45.0	<0.001	0.07	3.06	7.3	0.6	2.4	32.0	<0.01	0.04	22.3



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY11001		0.122	0.22	2.51	55	4.56	8.80	66	1.6
YY11002		0.152	0.47	8.05	68	1.99	14.60	103	1.8
YY11003		0.099	0.15	1.17	62	2.79	4.29	44	1.0
YY11004		0.049	0.09	0.58	33	0.21	1.61	21	0.5
YY11005		0.106	0.21	2.36	50	0.58	9.11	53	1.5
YY11006		0.149	0.26	1.75	63	1.48	8.62	70	1.9
YY11007		0.082	0.13	0.91	62	0.96	4.13	59	0.8
YY11008		0.089	0.14	0.79	78	0.44	3.63	52	0.8
YY11009		0.130	0.17	0.73	85	1.06	2.83	49	1.4
YY11010		0.092	0.12	1.33	52	1.14	6.91	80	1.0
YY11011		0.084	0.20	1.71	64	1.70	7.63	130	0.8
YY11012		0.085	0.15	2.21	53	1.83	6.95	140	0.7
YY11013		0.060	0.12	0.94	40	0.45	2.92	95	<0.5
YY11014		0.045	0.16	2.12	42	0.32	5.94	136	<0.5
YY11015		0.053	0.19	5.57	55	0.74	6.58	266	<0.5
YY11016		0.076	0.23	6.00	58	0.59	8.76	298	0.5
YY11017		0.098	0.24	6.14	62	1.30	7.25	247	0.8
YY11018		0.085	0.19	5.54	62	1.42	5.97	283	0.7
YY11019		0.074	0.18	8.29	58	1.50	8.30	252	0.8
YY11020		0.050	0.07	1.39	34	1.62	2.12	119	<0.5
YY11021		0.073	0.09	0.96	40	0.38	2.85	41	0.6
YY11022		0.090	0.10	0.69	58	0.27	3.03	36	1.0
YY11023		0.076	0.15	1.61	57	0.31	5.49	61	0.7
YY11024		0.053	0.12	1.87	45	0.22	8.38	39	0.8
YY11025		0.069	0.09	0.41	47	0.17	1.44	21	0.9
YY11026		0.066	0.11	0.93	42	0.24	3.07	38	1.2
YY11027		0.040	0.08	1.13	28	0.15	2.88	28	<0.5
YY11028		0.072	0.14	1.72	55	0.74	7.39	78	0.8
YY11029		0.082	0.20	2.73	62	1.17	10.35	100	0.9
YY11030		0.115	0.20	2.45	64	0.88	10.30	97	1.7
YY11031		0.038	0.09	0.85	26	0.26	2.17	17	<0.5
YY11032		0.084	0.16	1.84	64	0.92	7.52	60	1.1
YY11033		0.063	0.16	2.73	55	2.34	10.45	67	0.8
YY11034		0.093	0.21	1.41	56	2.53	6.86	56	2.4
YY11035		0.083	0.15	1.29	60	6.60	5.21	47	0.9
YY11036		0.080	0.17	1.70	57	1.28	6.34	50	0.8
YY11037		0.097	0.27	2.91	81	1.45	12.45	68	1.5
YY11038		0.098	0.28	1.91	57	1.54	8.39	82	1.3
YY11039		0.086	0.15	0.94	68	0.30	4.00	59	1.1
YY11040		0.100	0.51	8.12	62	0.55	18.55	92	1.8



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Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
LOD	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
YY11041		0.53	0.007	0.36	2.13	212	<0.02	<10	170	0.99	9.00	0.21	0.23	53.1	7.3	30
YY11042		0.45	0.006	0.07	2.08	25.0	<0.02	<10	110	0.90	0.24	0.32	0.20	36.9	8.6	29
YY11043		0.43	0.004	0.05	1.99	12.2	<0.02	<10	90	0.73	0.19	0.20	0.20	31.8	8.3	25
YY11044		0.36	0.003	0.10	2.93	25.2	<0.02	<10	180	1.29	0.32	0.23	0.47	38.7	11.9	32
YY11045		0.40	0.003	0.33	3.29	34.9	<0.02	<10	210	1.74	0.35	0.19	0.32	48.0	12.0	38
YY11046		0.37	0.006	0.20	2.68	33.1	<0.02	<10	210	1.41	0.33	0.32	0.29	40.9	8.2	29
YY11047		0.54	0.007	0.09	1.98	20.3	<0.02	<10	130	0.80	0.21	0.28	0.23	40.4	8.9	28
YY11048		0.43	0.003	0.19	1.78	31.4	<0.02	<10	130	0.69	0.33	0.19	0.27	39.7	8.2	32
YY11049		0.33	0.002	0.20	1.41	28.9	<0.02	<10	100	0.45	0.25	0.18	0.20	25.2	4.9	23
YY11050		0.29	0.005	1.82	1.77	143.0	<0.02	<10	110	1.41	0.38	0.28	0.26	57.7	6.2	26
YY11051		0.36	0.003	0.70	2.00	66.4	<0.02	<10	130	0.79	0.29	0.15	0.12	34.8	19.7	27
YY11052		0.51	0.003	0.12	1.52	15.8	<0.02	<10	130	0.51	0.18	0.26	0.23	34.4	7.3	27
YY11053		0.35	0.001	0.16	1.81	17.5	<0.02	<10	160	0.65	0.22	0.23	0.28	34.0	9.2	28
YY11054		0.38	0.002	0.15	1.78	11.3	<0.02	<10	130	0.60	0.19	0.17	0.22	27.8	7.9	28
YY11055		0.40	0.002	0.19	1.75	8.7	<0.02	<10	170	0.51	0.23	0.19	0.17	28.2	6.3	26
YY11056		0.37	0.004	0.26	1.91	8.5	<0.02	<10	180	0.84	0.34	0.23	0.21	34.5	8.5	31
YY11057		0.50	0.002	0.17	1.99	8.3	<0.02	<10	120	0.99	0.37	0.24	0.20	31.1	7.0	29
YY11058		0.38	0.002	0.25	1.97	7.1	<0.02	<10	160	1.03	0.27	0.25	0.31	36.6	6.2	28
YY11059		0.44	0.001	0.20	1.94	27.0	<0.02	<10	90	1.08	0.24	0.26	0.52	34.6	7.9	26
YY11060		0.48	0.002	0.19	1.87	8.4	<0.02	<10	100	1.38	0.41	0.22	0.47	44.8	8.4	21
YY11061		0.49	0.002	0.06	1.86	5.6	<0.02	<10	80	0.81	0.18	0.30	0.18	30.1	7.3	21
YY11062		0.43	0.002	0.04	1.99	8.6	<0.02	<10	70	0.59	0.21	0.12	0.16	27.7	6.6	25
YY11063		0.40	0.003	0.06	2.10	10.1	<0.02	<10	90	0.70	0.21	0.11	0.20	26.3	7.2	27
YY11064		0.41	0.002	0.07	2.14	9.4	<0.02	<10	100	0.70	0.24	0.12	0.27	28.0	7.2	27
YY11065		0.48	0.004	0.06	1.86	8.2	<0.02	<10	80	0.76	0.22	0.19	0.22	31.2	6.6	25
YY11066		0.49	0.003	0.09	1.87	9.5	<0.02	<10	130	1.07	0.27	0.32	0.18	50.6	7.7	24
YY11067		0.47	0.006	0.15	2.10	10.8	<0.02	<10	140	1.05	0.28	0.28	0.22	40.7	8.9	28
YY11068		0.47	0.003	0.11	1.63	9.3	<0.02	<10	90	0.51	0.36	0.16	0.17	29.4	5.7	27
YY11069		0.53	0.002	0.23	2.14	9.0	<0.02	<10	130	0.98	0.49	0.23	0.18	39.5	8.1	29
YY11070		0.33	0.002	0.09	1.31	6.5	<0.02	<10	70	0.31	0.29	0.07	0.11	21.9	3.2	18
YY11071		0.37	0.003	0.08	1.82	8.3	<0.02	<10	90	0.73	0.26	0.15	0.22	35.1	6.5	23
YY11072		0.40	0.002	0.06	1.37	6.9	<0.02	<10	60	0.31	0.20	0.09	0.12	22.6	3.8	20
YY11073		0.32	0.001	0.34	1.23	5.2	<0.02	<10	80	0.49	0.17	0.10	0.17	20.5	3.3	16
YY11074		0.36	0.009	0.09	1.03	7.1	<0.02	<10	90	0.37	0.32	0.13	0.21	33.8	4.0	17
YY11075		0.40	0.002	0.17	2.08	10.6	<0.02	<10	150	0.88	0.27	0.23	0.21	37.3	7.4	29
YY11076		0.23	0.003	0.22	2.01	9.8	<0.02	<10	150	0.83	0.27	0.24	0.16	36.2	6.8	27
YY11077		0.50	0.004	0.13	1.95	18.8	<0.02	<10	150	0.87	0.21	0.29	0.26	42.6	9.7	29
YY11078		0.43	0.003	0.11	1.99	30.1	<0.02	<10	140	0.92	0.22	0.17	0.27	36.1	7.3	26
YY11079		0.33	0.003	0.19	1.92	42.6	<0.02	<10	150	0.78	0.23	0.24	0.48	44.1	8.0	29
YY11080		0.34	0.002	0.20	1.82	26.0	<0.02	<10	190	0.70	0.22	0.17	0.28	37.4	6.9	27



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
YY11041		2.48	35.8	2.71	8.09	0.10	0.03	0.05	0.085	0.18	26.4	22.6	0.54	152	1.27	0.01
YY11042		1.82	18.9	2.75	6.47	0.08	0.04	0.04	0.029	0.10	18.5	17.3	0.51	190	0.77	0.01
YY11043		1.38	17.5	2.68	6.37	0.06	0.03	0.05	0.028	0.08	15.6	16.8	0.48	310	1.01	0.01
YY11044		2.31	18.4	3.44	8.35	0.08	0.06	0.06	0.060	0.08	18.4	24.1	0.63	324	1.14	0.02
YY11045		2.69	28.9	3.70	9.97	0.10	0.09	0.08	0.045	0.09	25.7	23.1	0.65	350	1.44	0.01
YY11046		3.70	19.6	3.27	9.94	0.08	0.03	0.17	0.047	0.14	19.7	21.9	0.60	305	1.29	0.02
YY11047		2.06	17.6	2.83	7.65	0.09	0.03	0.02	0.031	0.12	19.2	17.8	0.59	325	1.13	0.01
YY11048		1.78	16.5	2.84	7.72	0.08	0.02	0.04	0.033	0.11	18.8	14.1	0.51	435	1.69	0.02
YY11049		1.50	11.0	1.97	6.21	0.06	<0.02	0.05	0.024	0.09	12.5	11.0	0.43	187	1.02	0.02
YY11050		1.63	18.9	1.99	6.78	0.10	0.02	0.07	0.036	0.08	24.6	18.5	0.36	392	1.56	0.02
YY11051		1.67	15.9	2.65	7.39	0.07	<0.02	0.04	0.033	0.08	16.7	19.1	0.49	1140	1.15	0.01
YY11052		1.48	14.4	2.45	6.64	0.08	0.02	0.02	0.024	0.11	17.6	15.1	0.49	277	1.23	0.01
YY11053		1.65	16.0	2.50	7.22	0.06	0.02	0.05	0.030	0.08	17.1	17.1	0.45	401	1.24	0.01
YY11054		1.60	14.3	2.57	7.33	0.06	0.02	0.03	0.028	0.08	14.2	17.2	0.49	400	1.19	0.01
YY11055		1.72	19.1	2.45	7.07	0.06	0.02	0.03	0.030	0.11	14.1	17.6	0.51	224	1.06	0.01
YY11056		2.00	22.1	2.56	7.21	0.06	0.02	0.05	0.034	0.15	16.4	18.5	0.52	301	1.26	0.02
YY11057		2.15	18.9	2.50	7.15	0.08	0.02	0.02	0.032	0.18	15.7	20.8	0.60	227	0.92	0.01
YY11058		2.04	15.0	2.30	7.52	0.07	0.02	0.06	0.032	0.14	19.1	19.1	0.54	195	0.87	0.01
YY11059		1.75	14.4	2.48	6.99	0.06	0.04	0.04	0.030	0.10	17.8	19.6	0.47	320	1.05	0.01
YY11060		3.21	11.3	2.49	7.02	0.08	<0.02	0.02	0.028	0.13	23.1	20.9	0.46	391	1.21	0.01
YY11061		1.65	10.7	1.93	5.99	0.06	0.03	0.01	0.019	0.09	15.4	18.1	0.48	253	0.66	0.01
YY11062		1.23	15.1	2.38	7.57	0.05	0.03	0.04	0.023	0.07	14.1	14.1	0.35	200	1.32	0.01
YY11063		1.53	15.1	3.04	8.18	0.06	0.02	0.05	0.026	0.07	13.4	20.1	0.35	231	1.42	0.01
YY11064		1.57	23.6	2.76	7.83	0.06	<0.02	0.02	0.028	0.07	13.3	17.0	0.39	254	1.28	0.01
YY11065		2.14	14.1	2.42	7.67	0.08	0.03	0.02	0.027	0.12	15.8	19.2	0.51	213	0.92	0.01
YY11066		2.10	16.8	2.67	6.87	0.09	0.04	0.01	0.026	0.18	23.8	20.7	0.52	314	0.83	0.01
YY11067		1.99	17.5	2.77	7.19	0.07	0.04	0.02	0.029	0.17	21.3	22.3	0.58	367	0.96	0.01
YY11068		1.50	12.5	2.33	7.44	0.07	0.02	0.02	0.025	0.11	14.7	13.9	0.44	191	1.36	0.01
YY11069		1.84	17.5	2.87	7.22	0.07	0.04	0.04	0.033	0.12	18.8	24.5	0.57	254	1.10	0.01
YY11070		1.25	12.8	1.90	7.75	<0.05	0.02	0.04	0.021	0.05	11.1	6.5	0.16	92	1.42	0.01
YY11071		1.95	13.4	2.61	7.98	0.07	0.02	0.04	0.030	0.11	16.9	18.9	0.43	220	1.16	0.01
YY11072		1.03	9.9	2.00	7.59	<0.05	0.03	0.03	0.023	0.05	11.8	8.5	0.25	120	1.16	0.01
YY11073		1.22	10.5	1.58	4.41	0.05	<0.02	0.06	0.023	0.04	11.7	6.1	0.20	91	1.04	0.02
YY11074		1.39	9.4	1.81	5.80	0.05	<0.02	0.02	0.022	0.09	17.4	7.8	0.28	131	1.49	0.01
YY11075		2.03	19.8	2.81	7.57	0.07	0.02	0.06	0.040	0.15	19.1	20.5	0.59	246	1.20	0.01
YY11076		2.12	19.5	2.64	7.60	0.07	0.03	0.04	0.033	0.15	18.8	18.7	0.55	204	1.16	0.02
YY11077		2.31	19.3	2.90	7.66	0.08	0.03	0.04	0.040	0.15	21.3	22.3	0.57	374	1.27	0.01
YY11078		1.94	19.8	2.63	7.22	0.06	0.02	0.04	0.035	0.10	17.3	17.5	0.43	313	1.48	0.02
YY11079		1.97	19.9	2.87	7.60	0.08	0.02	0.04	0.038	0.12	22.6	19.6	0.49	327	1.48	0.02
YY11080		1.88	14.7	2.54	7.85	0.07	0.03	0.04	0.031	0.10	18.6	17.3	0.41	281	1.29	0.01



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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
Units		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY11041		3.46	18.4	550	56.2	34.7	0.001	0.02	2.39	5.0	0.2	2.5	18.6	<0.01	0.03	9.1
YY11042		1.98	22.3	810	17.6	16.3	<0.001	0.02	0.51	3.8	0.5	1.1	21.9	0.01	0.03	6.7
YY11043		1.84	22.0	560	11.1	15.5	<0.001	0.03	0.46	2.8	0.2	1.2	16.0	0.01	0.03	3.9
YY11044		2.45	27.9	730	74.4	17.5	<0.001	0.02	0.60	4.8	0.5	1.8	19.9	0.01	0.05	8.2
YY11045		2.27	27.2	480	48.4	16.5	0.001	0.02	0.57	7.3	0.8	1.9	23.7	0.01	0.05	10.2
YY11046		2.59	22.2	750	57.9	24.9	<0.001	0.05	0.58	4.0	0.8	2.7	34.8	0.01	0.06	4.4
YY11047		1.95	22.9	820	25.8	19.0	<0.001	0.02	0.56	3.6	0.6	2.5	20.8	<0.01	0.03	5.6
YY11048		1.43	21.1	670	45.8	19.9	<0.001	0.04	0.60	2.7	0.4	1.7	19.2	<0.01	0.03	2.1
YY11049		1.09	15.3	490	27.8	14.2	<0.001	0.03	0.40	1.9	0.5	1.0	19.1	<0.01	0.04	0.9
YY11050		0.79	16.8	900	72.5	11.0	<0.001	0.09	0.91	1.8	0.8	1.2	29.9	<0.01	0.02	0.6
YY11051		1.13	16.2	600	34.3	13.2	0.001	0.05	0.50	2.7	0.5	1.5	15.7	<0.01	0.03	1.4
YY11052		1.34	17.1	710	19.6	17.9	<0.001	0.02	0.46	2.5	0.2	1.1	20.7	<0.01	0.04	2.0
YY11053		1.23	18.3	790	22.5	16.9	<0.001	0.05	0.50	2.6	0.3	0.8	20.9	<0.01	0.03	1.4
YY11054		1.30	16.5	550	15.8	15.9	0.001	0.04	0.39	2.5	0.6	0.9	18.6	<0.01	0.03	1.2
YY11055		1.42	16.6	640	14.6	21.0	<0.001	0.04	0.44	2.9	0.5	1.0	17.8	<0.01	0.02	1.5
YY11056		1.50	19.2	770	14.3	23.1	<0.001	0.05	0.44	3.1	0.5	1.1	23.2	<0.01	0.03	1.7
YY11057		1.76	18.3	760	23.3	26.7	<0.001	0.02	0.37	3.4	0.2	1.1	17.9	<0.01	0.03	4.0
YY11058		1.61	17.8	670	29.4	23.6	<0.001	0.05	0.41	3.3	0.6	1.1	27.6	<0.01	0.03	2.4
YY11059		1.90	17.5	790	81.6	15.1	<0.001	0.02	0.95	3.2	0.6	0.8	21.7	<0.01	0.04	5.9
YY11060		1.78	15.1	730	49.2	22.0	<0.001	0.03	0.63	2.7	0.3	1.1	22.7	<0.01	0.07	8.4
YY11061		1.56	14.9	780	15.3	12.4	0.001	0.01	0.38	2.6	0.6	0.7	18.2	0.01	0.03	7.0
YY11062		1.77	16.2	350	10.3	10.2	<0.001	0.02	0.53	3.0	0.5	0.9	13.4	0.01	0.03	3.1
YY11063		1.76	17.6	420	13.1	13.0	<0.001	0.03	0.59	3.0	0.7	1.0	13.5	0.01	0.04	3.2
YY11064		1.13	17.4	520	12.4	11.1	<0.001	0.04	0.62	1.9	0.5	0.9	15.1	<0.01	0.03	0.5
YY11065		2.10	17.4	540	15.5	19.3	<0.001	0.02	0.47	3.1	0.4	1.3	18.7	<0.01	0.03	5.0
YY11066		1.76	18.4	1070	16.7	24.9	0.001	0.02	0.45	3.4	<0.2	1.1	19.4	<0.01	0.03	6.8
YY11067		1.85	20.7	980	19.9	24.7	<0.001	0.01	0.47	3.9	0.2	1.1	20.8	<0.01	0.03	6.3
YY11068		1.65	16.7	470	18.7	19.6	<0.001	0.02	0.41	2.6	0.2	1.0	14.5	<0.01	0.04	2.2
YY11069		1.86	19.7	790	23.2	20.9	<0.001	0.02	0.49	3.6	0.8	1.0	17.4	<0.01	0.03	4.2
YY11070		1.47	9.8	390	15.7	8.6	<0.001	0.04	0.44	1.4	0.5	1.1	9.9	<0.01	0.04	0.6
YY11071		2.33	15.9	510	21.1	19.4	<0.001	0.02	0.45	2.9	0.5	1.1	14.3	<0.01	0.04	3.6
YY11072		2.00	10.4	290	19.1	8.3	<0.001	0.02	0.35	2.3	0.7	1.0	10.3	<0.01	0.03	3.0
YY11073		0.71	7.9	680	28.2	7.5	<0.001	0.07	0.23	1.1	0.3	0.5	14.4	<0.01	0.03	0.2
YY11074		1.33	10.2	420	51.1	13.2	0.001	0.04	0.35	1.6	0.4	0.9	16.5	<0.01	0.02	1.6
YY11075		1.67	19.8	740	17.6	26.4	<0.001	0.04	0.46	3.3	0.7	1.0	21.6	<0.01	0.03	2.5
YY11076		1.70	18.2	740	19.7	25.4	<0.001	0.05	0.43	3.1	0.4	1.0	25.6	<0.01	0.03	2.0
YY11077		1.92	20.9	910	27.7	25.6	0.001	0.03	0.50	3.8	0.6	1.1	22.0	<0.01	0.04	4.8
YY11078		1.33	18.5	750	26.7	16.6	<0.001	0.05	0.56	2.4	0.3	0.9	17.7	<0.01	0.03	1.6
YY11079		1.61	20.7	880	38.0	20.6	<0.001	0.05	0.57	3.2	0.7	0.9	19.6	<0.01	0.03	2.9
YY11080		1.47	15.6	600	43.9	16.9	0.001	0.04	0.58	2.6	0.6	1.0	18.5	<0.01	0.03	1.4



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY11041		0.097	0.35	3.30	49	0.45	11.50	65	1.1
YY11042		0.098	0.17	1.38	52	0.36	9.66	56	2.0
YY11043		0.096	0.15	0.78	53	0.24	6.69	58	1.1
YY11044		0.099	0.21	1.35	63	0.28	8.12	117	2.3
YY11045		0.104	0.25	4.43	72	0.24	13.10	79	4.4
YY11046		0.098	0.23	2.31	61	0.39	10.40	85	1.3
YY11047		0.107	0.18	1.47	57	0.33	9.96	69	1.3
YY11048		0.085	0.18	1.37	58	0.23	8.02	75	0.8
YY11049		0.072	0.15	0.95	40	0.18	5.10	54	0.6
YY11050		0.040	0.17	3.35	38	0.19	24.1	63	<0.5
YY11051		0.070	0.25	2.04	54	0.23	10.25	55	0.5
YY11052		0.095	0.15	1.19	53	0.24	9.11	58	0.7
YY11053		0.076	0.16	1.49	55	0.43	9.42	65	0.8
YY11054		0.081	0.19	1.32	58	0.23	6.71	60	0.8
YY11055		0.085	0.20	1.68	50	0.23	6.81	60	0.8
YY11056		0.083	0.23	2.29	52	0.28	9.80	63	0.9
YY11057		0.098	0.26	1.95	48	0.26	9.15	89	0.8
YY11058		0.074	0.25	2.60	43	0.26	12.25	72	0.7
YY11059		0.079	0.17	1.63	47	0.26	10.45	99	1.2
YY11060		0.060	0.22	3.23	38	0.29	11.70	81	0.5
YY11061		0.064	0.13	1.07	35	0.21	9.99	52	0.7
YY11062		0.086	0.13	0.79	62	0.23	4.85	41	1.0
YY11063		0.082	0.16	1.06	65	0.28	5.93	47	0.8
YY11064		0.062	0.16	1.06	59	0.19	5.54	59	0.6
YY11065		0.094	0.17	1.65	48	0.29	7.65	52	1.0
YY11066		0.090	0.20	2.20	46	0.29	14.20	69	1.2
YY11067		0.094	0.22	2.13	50	0.29	12.45	79	1.2
YY11068		0.093	0.16	1.23	53	0.27	6.15	63	0.7
YY11069		0.085	0.21	2.40	51	0.27	12.05	84	1.2
YY11070		0.071	0.16	0.93	56	0.26	3.94	32	0.8
YY11071		0.094	0.21	1.36	52	0.24	7.21	56	1.0
YY11072		0.085	0.16	0.76	51	0.18	3.40	32	1.3
YY11073		0.037	0.14	2.74	31	0.15	6.58	33	0.6
YY11074		0.071	0.16	1.25	38	0.24	7.14	49	0.5
YY11075		0.093	0.22	2.09	54	0.23	9.51	66	1.1
YY11076		0.093	0.23	2.13	52	0.25	9.74	64	1.2
YY11077		0.105	0.20	1.96	57	0.32	12.15	78	1.1
YY11078		0.069	0.18	2.13	53	0.27	10.10	78	1.0
YY11079		0.084	0.19	2.01	57	0.34	12.75	97	1.1
YY11080		0.087	0.20	1.48	59	0.25	9.93	65	1.1



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		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
YY11081		0.52	0.002	0.11	1.86	13.7	<0.02	<10	160	0.96	0.16	0.35	0.33	58.0	8.1	24
YY11082		0.33	0.004	0.36	1.63	60.2	<0.02	<10	130	0.75	0.26	0.21	0.24	38.4	7.0	23
YY11083		0.47	0.005	0.11	1.86	45.9	<0.02	<10	110	0.83	0.32	0.22	0.27	46.7	9.4	30
YY11084		0.31	0.002	0.28	0.96	16.1	<0.02	<10	60	0.37	0.25	0.12	0.26	30.6	3.3	19
YY11085		0.47	0.003	0.28	2.03	96.1	<0.02	<10	120	1.06	0.35	0.27	0.31	50.3	7.2	26
YY11086		0.50	0.003	0.15	1.25	39.5	<0.02	<10	100	0.47	0.23	0.15	0.62	32.9	5.4	25
YY11087		0.32	0.002	0.97	1.21	55.4	<0.02	<10	120	0.90	0.28	0.20	0.44	40.8	3.3	15
YY11088		0.47	0.003	0.33	1.33	132.0	<0.02	<10	70	0.75	0.52	0.20	0.45	43.5	4.5	17
YY11089		0.52	0.004	0.23	1.42	125.5	<0.02	<10	70	0.52	0.66	0.15	0.50	32.2	8.3	27
YY11090		0.39	0.012	0.24	1.80	252	<0.02	<10	70	0.88	0.46	0.31	0.62	45.6	5.3	22
YY11091		0.49	0.001	0.03	2.36	135.5	<0.02	<10	90	1.41	2.71	0.23	0.31	40.8	7.7	16
YY11092		0.44	0.004	0.15	1.93	50.9	<0.02	<10	110	1.13	1.40	0.17	0.43	80.7	8.6	31
YY11093		0.40	0.006	0.28	1.96	22.4	<0.02	<10	130	0.74	1.20	0.14	0.22	58.7	7.2	25
YY11094		0.41	0.001	0.25	1.94	18.4	<0.02	<10	140	0.75	0.74	0.14	0.27	38.8	6.8	25
YY11095		0.48	0.002	0.16	1.88	31.7	<0.02	<10	120	0.73	0.47	0.10	0.27	44.6	6.2	25
YY11096		0.35	0.007	2.17	2.68	202	<0.02	<10	330	1.83	1.29	0.50	1.26	276	11.0	38
YY11097		0.41	0.002	0.24	1.39	45.0	<0.02	<10	70	0.69	0.79	0.13	0.37	59.0	4.4	20
YY11098		0.52	0.004	0.59	1.69	45.6	<0.02	<10	130	0.76	0.35	0.22	0.54	55.8	7.2	25
YY11099		0.43	0.009	2.04	1.91	87.9	<0.02	<10	180	0.65	0.50	0.29	0.89	54.2	5.7	29
YY11100		0.60	0.004	0.28	1.60	63.5	<0.02	<10	150	0.50	0.44	0.27	0.31	42.9	6.8	26
YY11101		0.39	0.006	0.32	1.78	137.0	<0.02	<10	170	0.50	0.37	0.21	0.18	45.8	10.1	30
YY11102		0.41	0.004	0.11	1.64	15.8	<0.02	<10	150	0.47	0.33	0.25	0.15	38.7	8.7	27
YY11103		0.50	0.004	0.18	1.52	20.2	<0.02	<10	160	0.54	0.38	0.26	0.18	46.8	15.4	30
YY11104		0.42	0.003	0.12	1.36	6.4	<0.02	<10	150	0.27	0.20	0.20	0.13	28.7	4.4	27
YY11105		0.48	0.002	0.13	1.34	4.5	<0.02	<10	140	0.35	0.16	0.23	0.15	32.3	5.2	23
YY11106		0.40	0.002	0.11	1.58	4.9	<0.02	<10	140	0.48	0.15	0.21	0.12	42.0	5.3	23
YY11107		0.32	0.003	0.21	1.67	13.0	<0.02	<10	190	0.62	0.19	0.30	0.39	52.2	7.9	25
YY11108		0.36	0.006	0.34	1.46	29.3	<0.02	<10	150	0.59	0.28	0.22	0.40	43.5	5.8	27
YY11109		0.52	0.004	0.20	1.61	20.8	0.14	<10	150	0.65	0.24	0.36	0.35	53.4	9.7	28
YY11110		0.50	0.002	0.20	1.97	10.4	<0.02	<10	140	0.78	0.22	0.25	0.17	51.1	6.4	27
YY11111		0.58	0.003	0.15	1.84	12.0	<0.02	<10	150	0.72	0.28	0.33	0.22	60.0	7.1	26
YY11112		0.38	0.001	0.14	0.98	32.1	<0.02	<10	50	0.34	0.12	0.13	0.10	26.6	3.1	11
YY11113		0.48	0.002	0.10	1.80	9.0	0.02	<10	100	0.62	0.25	0.36	0.12	37.4	6.8	24
YY11114		0.67	0.004	0.17	2.23	10.8	<0.02	<10	140	0.83	0.60	0.36	0.24	37.0	9.4	30
YY11115		0.54	0.005	0.08	1.87	8.4	<0.02	<10	110	0.89	0.22	0.31	0.19	52.9	9.1	28
YY11116		0.44	0.002	0.04	2.10	10.2	<0.02	<10	120	0.72	0.16	0.22	0.13	32.2	11.0	29
YY11117		0.46	0.003	0.04	2.26	8.8	<0.02	<10	150	0.80	0.15	0.30	0.17	41.1	11.1	31
YY11118		0.45	0.003	0.03	2.26	11.5	<0.02	<10	160	0.78	0.18	0.19	0.26	43.3	13.4	31
YY11119		0.47	0.001	0.05	2.03	10.9	<0.02	<10	90	0.68	0.21	0.14	0.23	37.2	8.0	29
YY11120		0.44	0.003	0.07	2.06	13.1	<0.02	<10	80	0.70	3.57	0.14	0.26	36.3	8.0	29



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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units LOD	ppm 0.05	ppm 0.2	% 0.01	ppm 0.05	ppm 0.05	ppm 0.02	ppm 0.01	ppm 0.005	% 0.01	ppm 0.2	ppm 0.1	% 0.01	ppm 5	ppm 0.05	% 0.01
YY11081		2.47	13.2	2.79	8.05	0.11	0.02	0.02	0.035	0.30	25.9	23.7	0.58	329	1.03	0.01
YY11082		1.82	13.9	2.54	6.67	0.08	0.02	0.04	0.028	0.15	18.2	15.2	0.47	339	1.04	0.01
YY11083		2.04	16.9	2.89	7.83	0.09	0.02	0.03	0.039	0.13	22.5	21.1	0.52	435	1.35	0.01
YY11084		1.38	8.3	1.43	6.21	0.05	0.02	0.06	0.017	0.09	14.4	8.0	0.19	102	1.16	0.01
YY11085		3.20	16.6	2.89	8.18	0.10	0.02	0.06	0.036	0.22	25.1	23.7	0.65	272	1.05	0.01
YY11086		1.41	13.8	2.42	7.15	<0.05	0.02	0.03	0.029	0.06	15.2	13.1	0.31	190	1.37	0.02
YY11087		2.61	13.7	1.55	4.71	0.05	<0.02	0.09	0.025	0.08	23.4	6.5	0.25	106	0.79	0.02
YY11088		2.37	14.0	1.99	6.69	0.05	<0.02	0.02	0.043	0.12	20.5	14.5	0.37	186	0.78	0.01
YY11089		1.71	15.2	2.43	7.57	<0.05	0.02	0.07	0.033	0.11	15.2	11.7	0.41	542	1.46	0.01
YY11090		3.70	16.6	2.41	6.79	0.06	0.02	0.04	0.118	0.11	22.6	18.7	0.53	219	1.14	0.02
YY11091		5.01	21.7	2.74	9.57	<0.05	<0.02	0.03	0.023	0.11	17.2	18.6	0.50	510	8.90	0.01
YY11092		1.59	23.5	3.10	6.86	0.08	0.02	0.06	0.039	0.08	40.0	21.1	0.41	374	2.23	0.02
YY11093		1.28	18.8	2.70	6.62	0.05	0.02	0.04	0.032	0.06	28.3	14.3	0.35	220	1.70	0.02
YY11094		1.40	19.7	3.19	8.61	<0.05	0.02	0.06	0.037	0.06	18.2	19.9	0.32	313	2.08	0.01
YY11095		1.43	16.2	3.04	9.12	0.05	0.02	0.06	0.036	0.06	21.3	14.6	0.27	235	1.99	0.01
YY11096		2.10	43.5	3.73	11.10	0.43	0.05	0.08	0.062	0.15	153.5	22.8	0.55	558	3.98	0.02
YY11097		1.45	18.4	2.51	7.99	0.07	0.02	0.06	0.036	0.09	35.0	11.3	0.21	369	2.07	0.01
YY11098		1.67	18.6	1.85	6.62	0.11	0.02	0.06	0.035	0.08	34.9	16.2	0.45	238	0.94	0.02
YY11099		1.99	21.3	1.79	6.94	0.07	0.03	0.08	0.045	0.13	30.1	17.6	0.51	190	0.63	0.02
YY11100		1.58	16.5	2.12	6.66	0.06	0.02	0.03	0.031	0.10	21.5	15.8	0.53	171	0.75	0.02
YY11101		1.47	15.7	3.05	6.96	0.05	0.02	0.06	0.034	0.08	22.7	15.3	0.49	313	2.20	0.02
YY11102		1.86	11.3	2.47	6.61	0.06	0.02	0.09	0.030	0.13	18.7	16.6	0.55	196	0.93	0.02
YY11103		1.89	11.1	2.83	6.62	0.05	0.02	0.05	0.026	0.14	21.6	14.4	0.48	779	1.62	0.01
YY11104		1.33	8.4	1.90	5.73	<0.05	0.02	0.04	0.017	0.08	14.0	11.4	0.45	117	0.72	0.02
YY11105		1.23	10.0	1.56	5.33	<0.05	0.03	0.05	0.021	0.08	15.5	11.5	0.42	138	0.61	0.02
YY11106		1.69	12.0	1.81	6.22	0.05	0.02	0.04	0.022	0.10	20.5	13.5	0.48	122	0.62	0.02
YY11107		1.87	15.1	2.42	6.46	0.06	0.02	0.09	0.029	0.14	25.1	14.7	0.52	317	0.82	0.02
YY11108		1.67	16.3	2.23	6.70	<0.05	0.02	0.06	0.026	0.10	22.1	11.9	0.40	226	1.11	0.02
YY11109		1.93	16.9	2.60	6.64	0.07	0.02	0.04	0.036	0.17	25.8	17.5	0.61	378	0.85	0.02
YY11110		2.99	15.9	2.78	8.03	0.07	0.02	0.03	0.032	0.19	26.3	19.3	0.63	189	0.96	0.01
YY11111		2.95	17.4	2.55	6.92	0.08	0.03	0.02	0.030	0.22	30.6	19.2	0.64	173	0.57	0.02
YY11112		1.42	11.4	1.41	4.38	<0.05	0.02	0.03	0.018	0.07	15.7	6.0	0.23	100	0.49	0.03
YY11113		4.25	10.8	2.35	7.10	0.07	0.02	0.04	0.024	0.32	19.6	20.1	0.83	192	0.50	0.02
YY11114		5.43	17.0	3.38	8.78	0.06	0.02	0.05	0.078	0.44	19.0	26.0	1.03	278	0.52	0.01
YY11115		3.13	19.2	2.90	7.59	0.08	0.02	0.02	0.030	0.21	26.8	21.9	0.67	346	0.82	0.02
YY11116		1.64	22.4	2.75	5.89	<0.05	0.05	0.04	0.027	0.07	14.5	16.4	0.55	339	0.78	0.02
YY11117		3.67	19.1	3.23	7.42	0.08	0.05	0.03	0.032	0.29	20.8	23.2	0.87	401	0.73	0.02
YY11118		1.48	23.1	3.10	6.33	0.05	0.06	0.03	0.029	0.09	19.6	17.3	0.61	451	0.92	0.02
YY11119		1.66	18.1	2.88	6.91	<0.05	0.02	0.05	0.029	0.07	16.9	15.9	0.45	302	1.14	0.01
YY11120		2.25	15.3	3.04	7.66	<0.05	0.03	0.05	0.032	0.07	17.7	19.4	0.47	308	1.16	0.01



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
YY11081		2.20	16.4	1140	21.1	38.2	<0.001	0.02	0.38	4.2	0.2	1.8	21.4	<0.01	0.02	8.4
YY11082		1.29	14.8	820	31.9	20.6	<0.001	0.06	0.45	3.0	0.3	1.5	17.5	<0.01	0.02	1.8
YY11083		1.70	20.6	800	52.9	22.0	0.001	0.02	0.53	3.3	0.3	1.6	17.7	<0.01	0.02	4.5
YY11084		1.78	10.5	550	30.9	13.9	<0.001	0.05	0.28	1.5	<0.2	3.0	13.7	<0.01	0.01	1.9
YY11085		2.22	17.5	910	86.6	32.1	<0.001	0.02	0.57	3.5	0.2	1.9	18.4	<0.01	0.03	8.8
YY11086		1.56	16.0	410	58.0	10.4	<0.001	0.03	0.52	1.9	0.5	0.9	14.7	<0.01	0.02	1.4
YY11087		0.75	9.0	900	66.2	14.8	<0.001	0.10	0.40	0.7	0.3	0.7	22.9	<0.01	0.01	0.3
YY11088		1.70	10.1	720	192.0	20.3	<0.001	0.02	0.80	1.7	0.3	3.2	13.1	<0.01	0.01	3.7
YY11089		1.55	16.5	730	74.9	19.1	<0.001	0.05	0.66	1.9	0.4	1.8	13.9	<0.01	0.02	1.5
YY11090		1.99	15.1	940	190.5	17.5	<0.001	0.02	2.28	2.8	0.5	1.4	20.3	<0.01	0.01	7.9
YY11091		1.57	11.4	730	72.5	12.9	<0.001	<0.01	0.87	2.5	0.3	2.2	11.3	<0.01	0.39	13.9
YY11092		2.46	22.8	470	52.5	14.7	<0.001	0.02	1.98	3.6	0.5	1.1	14.3	<0.01	0.09	9.8
YY11093		2.05	16.9	360	38.0	11.0	<0.001	0.02	0.90	3.1	0.3	0.9	14.7	0.01	0.08	5.6
YY11094		2.47	16.3	440	24.9	13.1	<0.001	0.04	0.84	2.4	0.5	1.3	14.4	<0.01	0.05	2.7
YY11095		2.92	14.9	340	22.3	14.6	<0.001	0.02	0.90	2.8	0.5	1.4	12.8	0.01	0.03	4.8
YY11096		2.93	28.2	880	190.5	25.5	0.001	0.07	6.25	6.9	1.4	1.8	43.3	0.01	0.09	12.2
YY11097		2.74	10.7	510	29.6	16.0	<0.001	0.04	1.60	2.5	0.4	1.7	9.9	<0.01	0.04	7.1
YY11098		1.24	15.2	690	72.3	16.2	<0.001	0.05	1.19	3.0	0.6	1.1	18.1	<0.01	0.01	2.3
YY11099		1.48	19.1	850	168.5	21.5	<0.001	0.04	1.71	3.6	0.3	1.1	21.7	<0.01	0.03	4.0
YY11100		2.09	16.6	650	72.0	20.4	<0.001	0.02	0.87	3.8	0.5	1.2	19.4	<0.01	0.01	7.9
YY11101		1.48	16.6	790	56.8	14.4	<0.001	0.04	0.71	3.1	0.6	0.9	17.6	<0.01	0.01	3.3
YY11102		1.74	17.4	710	20.4	23.0	<0.001	0.02	0.43	2.9	0.3	1.1	18.1	<0.01	0.01	4.4
YY11103		1.63	17.2	920	18.9	22.0	<0.001	0.04	0.47	2.4	<0.2	0.8	18.6	<0.01	0.02	3.0
YY11104		1.22	14.6	660	12.7	13.7	<0.001	0.04	0.33	1.9	0.4	1.0	16.1	<0.01	0.01	1.2
YY11105		1.20	14.1	710	11.8	14.0	<0.001	0.04	0.35	2.2	0.2	0.6	17.8	<0.01	0.02	1.8
YY11106		1.46	14.4	670	15.0	19.8	<0.001	0.04	0.34	2.5	0.5	1.0	16.4	<0.01	0.01	2.0
YY11107		1.43	15.9	780	29.5	24.5	<0.001	0.06	0.46	2.3	<0.2	1.0	26.2	<0.01	0.01	1.6
YY11108		1.29	16.2	780	76.6	21.6	<0.001	0.08	0.58	2.1	<0.2	1.1	21.6	<0.01	0.02	1.2
YY11109		1.76	20.7	880	66.5	26.1	0.001	0.02	0.62	3.9	0.6	1.0	23.9	<0.01	0.01	7.1
YY11110		1.90	17.1	990	19.3	33.0	<0.001	0.05	0.48	3.2	0.2	1.2	18.4	<0.01	0.02	3.8
YY11111		2.08	18.4	840	25.7	32.9	<0.001	0.01	0.57	4.5	0.4	0.8	20.4	<0.01	0.02	11.6
YY11112		0.87	6.2	520	29.2	9.0	<0.001	0.04	0.41	1.0	<0.2	0.4	13.0	<0.01	0.01	0.7
YY11113		1.89	15.8	980	29.3	39.8	<0.001	0.01	0.48	3.6	0.2	0.8	19.0	<0.01	0.01	5.6
YY11114		2.01	19.9	1070	120.5	52.8	<0.001	0.02	0.63	4.3	0.5	0.9	19.2	<0.01	0.01	5.5
YY11115		1.95	21.3	970	12.0	30.3	<0.001	0.01	0.54	3.8	0.5	1.1	18.8	<0.01	0.01	7.8
YY11116		1.47	27.3	550	11.3	9.6	0.001	0.02	0.57	3.3	0.7	0.5	23.0	<0.01	0.03	3.4
YY11117		1.94	23.9	870	22.8	43.0	<0.001	0.02	0.48	4.6	<0.2	0.8	18.6	<0.01	0.02	5.4
YY11118		1.27	26.5	640	12.0	12.6	<0.001	0.03	0.62	3.9	0.5	0.5	18.1	<0.01	0.04	3.7
YY11119		1.22	20.9	500	23.7	11.6	<0.001	0.03	0.68	2.4	0.4	0.7	13.0	<0.01	0.02	1.8
YY11120		1.73	19.1	470	43.2	12.9	<0.001	0.03	0.66	2.9	0.4	0.8	12.5	<0.01	0.04	3.5



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Sample Description	Method Analyte Units LOD	ME-MS41 Ti %	ME-MS41 Tl ppm	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm
YY11081		0.124	0.26	2.16	52	0.23	15.35	74	1.0
YY11082		0.083	0.20	2.17	55	0.33	9.79	53	1.0
YY11083		0.094	0.20	1.64	57	0.32	10.75	70	0.8
YY11084		0.070	0.13	1.01	33	0.27	5.96	34	0.8
YY11085		0.106	0.25	2.04	49	0.41	13.05	72	0.9
YY11086		0.076	0.14	0.85	57	0.25	6.48	52	1.1
YY11087		0.028	0.13	1.85	27	0.15	10.45	50	0.5
YY11088		0.069	0.22	1.39	35	0.20	9.53	94	0.5
YY11089		0.080	0.14	0.93	53	0.24	5.87	79	0.9
YY11090		0.071	0.27	1.47	39	0.18	12.35	89	1.0
YY11091		0.018	0.25	2.82	35	0.18	12.35	54	0.5
YY11092		0.079	0.20	3.06	57	0.36	17.70	77	1.1
YY11093		0.072	0.16	2.11	56	0.30	12.70	52	0.9
YY11094		0.066	0.18	1.57	64	0.27	6.83	59	0.8
YY11095		0.078	0.16	1.89	70	0.26	8.38	49	0.9
YY11096		0.060	0.24	14.45	62	0.36	117.5	154	1.1
YY11097		0.059	0.17	3.20	54	0.28	13.20	65	0.8
YY11098		0.065	0.21	3.22	43	0.18	20.9	87	0.9
YY11099		0.077	0.24	3.42	38	0.24	15.65	149	1.2
YY11100		0.094	0.19	2.09	46	0.46	10.45	86	1.3
YY11101		0.072	0.20	2.56	72	0.19	10.40	71	0.9
YY11102		0.093	0.24	1.41	50	0.18	9.02	55	1.1
YY11103		0.087	0.21	1.55	53	0.24	11.35	52	0.8
YY11104		0.072	0.16	1.14	40	0.16	6.00	44	0.9
YY11105		0.072	0.15	1.33	35	0.16	7.17	41	1.0
YY11106		0.082	0.19	1.68	41	0.18	10.20	45	1.0
YY11107		0.085	0.21	1.93	51	0.20	14.10	61	1.2
YY11108		0.077	0.18	2.12	52	0.25	10.70	80	1.2
YY11109		0.103	0.21	1.96	51	0.25	14.55	88	1.4
YY11110		0.099	0.26	2.21	53	0.23	13.15	59	1.2
YY11111		0.117	0.25	1.89	46	0.16	15.90	61	1.6
YY11112		0.056	0.10	1.06	31	0.12	6.76	30	1.1
YY11113		0.151	0.37	1.01	48	0.21	10.30	56	1.3
YY11114		0.162	0.44	1.65	71	0.32	10.25	123	1.3
YY11115		0.111	0.25	1.55	56	0.31	14.85	61	1.6
YY11116		0.090	0.12	0.87	55	0.19	6.93	58	2.0
YY11117		0.152	0.35	1.18	66	0.28	10.45	62	2.1
YY11118		0.082	0.14	0.93	59	0.19	7.40	62	2.6
YY11119		0.079	0.14	0.79	61	0.23	6.52	59	0.9
YY11120		0.089	0.17	0.91	64	0.59	6.35	70	1.2



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Method Analyte Units LOD	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm
Sample Description	0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY11121	0.42	0.005	0.54	1.99	81.4	<0.02	<10	140	0.75	0.27	0.26	0.39	43.1	8.5	29
YY11122	0.34	<0.001	0.14	0.67	5.1	<0.02	<10	20	0.13	0.06	0.05	0.12	5.27	1.5	5
YY11123	0.46	0.003	0.14	1.69	121.0	<0.02	<10	130	0.58	0.47	0.13	0.42	40.2	6.6	26
YY11124	0.40	0.003	0.15	1.51	19.2	<0.02	<10	140	0.65	0.32	0.47	0.47	44.7	6.9	25
YY11125	0.52	0.001	0.13	2.36	13.3	<0.02	<10	150	1.11	0.65	0.27	0.15	80.2	13.1	29
YY11126	0.49	0.004	0.44	2.01	46.7	<0.02	<10	160	0.84	0.43	0.30	0.41	78.3	12.6	29
YY11127	0.44	0.002	0.03	1.69	7.1	<0.02	<10	70	0.62	0.65	0.18	0.19	64.8	7.0	25
YY11128	0.39	0.002	0.05	2.22	11.8	<0.02	<10	120	0.53	0.24	0.17	0.14	35.7	10.3	30
YY11129	0.40	0.003	0.06	2.05	9.8	<0.02	<10	120	0.55	0.27	0.19	0.12	57.3	10.3	29
YY11130	0.36	0.003	0.07	1.58	6.1	<0.02	<10	90	0.31	0.34	0.11	0.13	37.5	5.1	25
YY11131	0.40	0.001	0.04	1.98	10.7	<0.02	<10	90	0.60	0.43	0.16	0.30	49.1	7.7	30
YY11132	0.43	0.001	0.06	1.89	9.4	0.03	<10	70	0.54	0.26	0.13	0.21	38.4	6.1	26
YY11133	0.44	0.005	0.11	1.96	9.8	<0.02	<10	190	0.61	0.32	0.22	0.29	65.1	9.7	28
YY11134	0.45	0.001	0.04	1.75	10.1	<0.02	<10	110	0.68	0.46	0.31	0.27	79.3	9.0	24
YY11135	0.33	0.001	0.14	0.77	5.1	<0.02	<10	50	0.18	0.18	0.09	0.20	20.0	2.6	13
YY11136	0.41	0.002	0.66	1.93	52.1	<0.02	<10	200	0.76	1.41	0.26	0.39	80.6	6.6	25
YY11137	0.42	0.002	0.44	2.34	45.4	<0.02	<10	190	0.58	0.93	0.19	0.30	50.7	7.0	37
YY11138	0.43	0.001	0.14	1.86	45.1	<0.02	<10	80	0.59	0.64	0.19	0.56	51.9	6.3	27
YY11139	0.37	0.002	0.70	2.00	26.4	<0.02	<10	150	0.59	1.72	0.37	0.25	41.0	5.6	35
YY11140	0.43	0.006	0.17	2.01	19.7	<0.02	<10	190	0.69	0.38	0.29	0.34	78.4	6.6	34
YY11141	0.36	0.003	0.40	2.13	34.0	<0.02	<10	130	0.81	0.44	0.27	0.21	86.7	7.4	31
YY11142	0.35	0.003	0.06	2.17	13.1	<0.02	<10	120	0.54	0.25	0.14	0.29	43.2	8.3	29
YY11143	0.43	0.002	0.14	2.25	16.0	<0.02	<10	100	0.59	0.46	0.16	0.23	26.4	10.1	30
YY11144	0.46	0.001	0.07	1.94	26.1	<0.02	<10	150	0.75	0.26	0.28	0.17	106.0	7.1	28
YY11145	0.43	0.001	0.05	1.86	8.9	<0.02	<10	100	0.82	0.41	0.28	0.18	130.5	8.4	26
YY11146	0.56	0.004	0.09	2.30	10.6	<0.02	<10	110	1.20	0.30	0.27	0.25	86.2	12.0	30
YY11147	0.34	0.001	0.15	1.17	20.6	<0.02	<10	60	0.35	0.26	0.12	0.22	30.6	4.3	17
YY11148	0.50	0.003	0.15	1.76	23.3	<0.02	<10	110	0.69	0.66	0.32	0.22	67.2	8.5	26
YY11149	0.32	0.002	0.41	1.54	24.6	<0.02	<10	160	0.63	0.63	0.33	0.28	105.5	7.6	22
YY11150	0.48	0.002	0.26	1.53	25.6	<0.02	<10	140	0.51	0.53	0.26	0.30	59.4	12.9	25
YY11151	0.46	0.002	0.15	1.53	55.5	<0.02	<10	100	0.47	0.34	0.20	0.34	33.1	10.9	27
YY11152	0.57	0.004	0.37	1.73	61.4	<0.02	<10	130	0.50	0.37	0.31	0.33	43.9	7.7	28
YY11153	0.38	0.002	0.84	1.59	63.6	<0.02	<10	130	0.51	0.34	0.31	0.30	50.4	5.6	27
YY11154	0.36	0.002	0.31	1.35	7.6	<0.02	<10	190	0.62	0.20	0.21	0.19	46.9	15.0	22
YY11155	0.47	0.005	0.12	2.74	19.4	<0.02	<10	180	1.26	0.46	0.18	0.23	59.2	14.7	37
YY11156	0.57	0.003	0.04	1.27	9.4	<0.02	<10	100	0.45	0.22	0.33	0.18	42.4	6.5	25
YY11157	0.34	0.002	0.42	1.64	15.3	<0.02	<10	220	0.89	0.33	0.42	0.62	87.1	7.5	23
YY11158	0.34	0.002	0.12	1.63	17.8	<0.02	<10	80	0.61	0.31	0.24	0.24	39.2	7.7	29
YY11159	0.38	0.011	0.51	1.97	165.0	<0.02	<10	200	0.93	0.61	0.28	0.30	52.8	15.3	28
YY11160	0.42	0.004	0.07	1.43	13.5	<0.02	<10	70	0.51	0.45	0.27	0.54	35.1	7.7	26



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
YY11121		3.14	27.4	2.99	7.76	0.05	0.02	0.05	0.039	0.13	22.1	18.2	0.54	386	1.40	0.02
YY11122		0.38	9.1	0.82	2.42	<0.05	<0.02	0.04	0.009	0.02	2.6	0.9	0.04	37	0.70	0.03
YY11123		5.73	13.1	3.06	7.64	0.05	<0.02	0.07	0.038	0.20	17.8	17.0	0.47	649	1.72	0.01
YY11124		4.57	18.1	2.54	6.14	0.06	0.02	0.05	0.035	0.18	22.6	17.1	0.55	366	1.18	0.02
YY11125		10.25	26.6	3.58	7.74	0.11	0.02	0.04	0.044	0.39	39.4	30.4	0.97	505	1.26	0.02
YY11126		3.92	25.6	3.18	6.77	0.10	0.02	0.05	0.040	0.23	36.5	22.7	0.67	567	1.57	0.02
YY11127		3.19	18.9	2.93	7.45	0.06	0.02	0.04	0.037	0.14	20.8	18.4	0.44	358	0.92	0.01
YY11128		1.12	21.4	3.01	5.64	0.05	0.03	0.04	0.030	0.08	15.6	16.8	0.53	384	1.13	0.01
YY11129		2.66	20.4	3.27	6.66	0.07	0.03	0.04	0.032	0.18	24.5	19.3	0.61	399	0.93	0.01
YY11130		2.06	13.5	2.80	7.81	0.05	0.03	0.08	0.030	0.19	16.2	10.5	0.37	312	1.28	0.01
YY11131		2.44	16.0	3.64	8.44	0.06	0.04	0.04	0.048	0.16	22.6	22.2	0.55	339	1.39	0.01
YY11132		1.67	14.0	3.22	7.55	0.05	0.03	0.05	0.040	0.12	17.6	19.8	0.40	258	1.29	0.01
YY11133		1.63	20.3	2.79	6.07	0.07	0.03	0.08	0.031	0.12	29.6	18.3	0.56	441	1.07	0.01
YY11134		2.81	18.4	2.60	6.43	0.10	0.03	0.04	0.034	0.24	43.2	22.9	0.65	342	1.04	0.01
YY11135		1.26	7.6	1.39	4.01	<0.05	<0.02	0.05	0.014	0.08	11.6	5.6	0.20	90	0.83	0.02
YY11136		2.47	19.0	2.73	6.49	0.10	0.02	0.07	0.041	0.14	45.0	16.2	0.47	427	1.20	0.02
YY11137		2.44	16.0	3.37	7.52	0.07	0.02	0.03	0.044	0.08	25.3	20.0	0.54	318	0.86	0.01
YY11138		2.34	16.4	2.87	6.90	0.05	0.02	0.08	0.043	0.09	19.3	20.5	0.44	537	1.63	0.01
YY11139		2.64	17.0	2.37	6.49	0.07	0.03	0.08	0.038	0.11	22.2	17.8	0.56	260	0.88	0.01
YY11140		2.60	21.8	2.51	6.37	0.11	0.06	0.08	0.043	0.12	41.4	19.8	0.52	187	0.62	0.01
YY11141		3.56	25.9	2.71	6.39	0.14	0.04	0.06	0.042	0.11	62.0	17.0	0.54	216	0.87	0.01
YY11142		1.62	17.8	3.14	6.64	0.05	0.02	0.04	0.031	0.06	18.6	15.7	0.45	334	1.22	0.01
YY11143		1.31	16.2	3.12	5.26	<0.05	0.02	0.27	0.033	0.07	11.8	18.9	0.51	398	1.09	0.01
YY11144		2.24	20.3	2.54	6.40	0.11	0.03	0.04	0.032	0.12	51.2	19.9	0.51	280	0.58	0.01
YY11145		3.12	21.2	2.77	6.84	0.12	0.03	0.03	0.035	0.20	53.9	22.3	0.59	471	0.80	0.01
YY11146		4.40	19.8	3.65	9.21	0.09	0.02	0.02	0.060	0.34	37.0	31.8	0.75	493	0.85	0.01
YY11147		1.64	12.7	1.91	4.82	<0.05	0.02	0.06	0.042	0.10	14.2	9.2	0.28	206	1.02	0.02
YY11148		2.37	15.1	2.97	6.79	0.08	0.02	0.03	0.052	0.16	34.3	22.2	0.59	387	1.08	0.01
YY11149		1.91	20.0	2.33	6.44	0.13	0.03	0.07	0.048	0.10	57.7	15.7	0.42	378	1.24	0.02
YY11150		2.31	12.4	2.33	5.99	0.09	0.02	0.04	0.045	0.10	31.0	16.7	0.46	721	1.07	0.01
YY11151		1.65	11.1	2.52	5.57	0.05	<0.02	0.16	0.036	0.09	16.4	16.2	0.43	631	1.30	0.01
YY11152		2.34	14.4	2.42	6.16	0.07	0.02	0.05	0.034	0.18	20.4	19.2	0.59	275	1.00	0.01
YY11153		2.87	12.9	1.81	6.13	0.07	0.02	0.07	0.040	0.13	24.9	16.7	0.50	199	0.99	0.01
YY11154		1.34	10.4	1.66	4.92	0.07	0.02	0.09	0.024	0.06	22.9	10.2	0.32	488	0.88	0.01
YY11155		2.51	23.1	3.89	9.21	0.07	0.04	0.05	0.043	0.15	27.5	27.2	0.63	491	1.44	0.01
YY11156		1.83	13.5	2.33	5.22	0.07	0.04	0.01	0.022	0.15	20.3	15.1	0.53	226	0.73	0.02
YY11157		2.84	17.3	2.38	6.66	0.11	0.04	0.06	0.036	0.13	42.7	16.4	0.48	297	1.07	0.02
YY11158		4.00	13.5	2.99	8.13	0.07	0.03	0.04	0.033	0.25	17.0	22.6	0.60	261	1.09	0.02
YY11159		3.04	21.7	3.20	8.05	0.09	0.02	0.07	0.052	0.13	28.5	19.3	0.55	461	1.94	0.02
YY11160		1.66	14.1	2.67	6.17	0.07	0.04	0.03	0.029	0.13	17.5	19.3	0.52	252	1.04	0.01



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Method Analyte Units LOD	ME-MS41 Nb ppm	ME-MS41 Ni ppm	ME-MS41 P ppm	ME-MS41 Pb ppm	ME-MS41 Rb ppm	ME-MS41 Re ppm	ME-MS41 S %	ME-MS41 Sb ppm	ME-MS41 Sc ppm	ME-MS41 Se ppm	ME-MS41 Sn ppm	ME-MS41 Sr ppm	ME-MS41 Ta ppm	ME-MS41 Te ppm	ME-MS41 Th ppm
Sample Description	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY11121	1.53	19.9	890	118.5	24.6	<0.001	0.06	1.38	2.8	0.8	1.1	21.3	<0.01	0.03	2.0
YY11122	0.26	3.5	350	6.5	2.2	<0.001	0.04	0.38	0.2	<0.2	0.2	9.0	<0.01	0.02	<0.2
YY11123	1.73	12.9	710	87.8	41.4	<0.001	0.09	3.06	1.7	0.4	1.1	13.7	<0.01	0.05	1.4
YY11124	1.60	14.3	770	20.6	33.2	<0.001	0.07	1.04	2.0	0.2	0.9	26.7	<0.01	0.04	1.4
YY11125	1.90	21.5	910	16.5	53.9	<0.001	0.04	0.67	4.1	<0.2	1.1	19.5	<0.01	0.03	11.0
YY11126	1.85	23.2	980	96.8	32.7	<0.001	0.04	1.57	3.5	<0.2	0.9	19.9	<0.01	0.04	7.2
YY11127	1.80	16.2	670	11.2	29.7	<0.001	0.04	0.74	1.8	0.3	1.2	13.2	<0.01	0.04	1.8
YY11128	1.31	25.1	540	10.3	11.8	<0.001	0.03	0.64	3.1	0.4	0.6	16.0	0.01	0.04	2.1
YY11129	2.06	21.6	590	9.2	33.4	<0.001	0.03	0.70	3.6	0.3	1.1	14.3	<0.01	0.04	3.8
YY11130	2.66	11.4	600	11.2	46.0	<0.001	0.06	0.59	2.3	0.3	1.6	10.8	<0.01	0.04	2.2
YY11131	3.21	18.3	520	24.3	31.5	<0.001	0.03	0.79	3.5	0.3	1.3	13.8	<0.01	0.04	6.3
YY11132	2.64	14.9	540	12.1	22.7	<0.001	0.04	0.62	2.7	<0.2	1.1	11.5	0.01	0.05	4.1
YY11133	1.81	19.8	770	10.9	24.8	<0.001	0.06	0.53	3.5	0.2	0.9	18.4	<0.01	0.03	3.9
YY11134	2.27	16.6	1180	19.4	40.4	<0.001	0.03	0.44	2.7	0.2	1.1	15.7	<0.01	0.03	9.2
YY11135	0.97	6.8	410	11.1	15.9	<0.001	0.03	0.30	0.9	<0.2	0.6	9.3	<0.01	0.04	0.5
YY11136	1.16	15.9	1040	51.1	28.5	<0.001	0.08	1.22	2.6	0.3	0.8	21.3	<0.01	0.04	1.5
YY11137	1.30	18.6	720	78.7	20.7	<0.001	0.05	1.30	3.5	0.2	0.9	17.8	<0.01	0.03	2.2
YY11138	1.37	16.8	920	73.5	19.8	<0.001	0.05	1.90	2.1	0.3	0.9	11.4	<0.01	0.04	2.5
YY11139	1.27	19.0	1080	48.3	21.9	<0.001	0.06	1.42	3.5	0.4	0.8	23.7	<0.01	0.03	3.0
YY11140	1.80	19.9	650	39.7	25.1	<0.001	0.02	1.70	5.5	<0.2	0.8	19.6	<0.01	0.03	9.8
YY11141	1.41	19.4	930	49.4	21.0	<0.001	0.06	1.95	4.0	0.4	0.7	17.9	<0.01	0.04	4.3
YY11142	1.59	20.4	370	17.5	13.8	<0.001	0.03	0.76	3.1	0.4	0.7	13.4	0.01	0.05	2.9
YY11143	1.20	23.7	480	28.6	10.3	<0.001	0.04	0.87	2.8	0.4	0.5	15.1	0.01	0.04	2.4
YY11144	1.53	21.1	740	13.2	21.3	<0.001	0.01	4.49	4.6	<0.2	0.8	18.9	<0.01	0.03	9.8
YY11145	2.02	18.8	910	12.2	34.0	<0.001	0.01	0.86	3.9	<0.2	0.9	16.3	<0.01	0.03	11.9
YY11146	2.40	20.3	890	17.3	56.4	<0.001	0.03	1.24	5.4	<0.2	1.9	16.3	<0.01	0.03	8.0
YY11147	1.08	9.0	790	36.0	17.4	<0.001	0.09	2.20	1.2	0.2	0.7	13.3	<0.01	0.03	0.5
YY11148	1.61	16.5	1000	49.1	28.5	<0.001	0.03	2.78	3.1	0.2	1.0	19.5	<0.01	0.02	7.0
YY11149	1.16	14.2	890	56.8	21.5	<0.001	0.08	3.50	2.6	0.3	0.7	25.7	<0.01	0.03	2.0
YY11150	1.14	14.2	960	49.5	19.5	<0.001	0.06	3.07	2.7	<0.2	0.7	19.8	<0.01	0.03	3.0
YY11151	1.29	14.7	820	83.5	16.2	<0.001	0.04	2.20	2.1	<0.2	0.7	15.2	<0.01	0.03	2.6
YY11152	1.80	16.1	1010	80.7	28.3	<0.001	0.03	1.80	3.6	0.3	0.9	18.8	<0.01	0.03	5.5
YY11153	1.48	14.5	1040	170.5	23.2	<0.001	0.06	2.37	2.9	0.4	1.0	18.6	<0.01	0.02	2.9
YY11154	0.80	11.2	1000	23.4	9.0	<0.001	0.11	0.41	1.7	0.4	0.6	21.8	<0.01	0.04	0.5
YY11155	2.26	25.9	770	21.7	25.3	<0.001	0.03	0.69	5.5	0.5	1.2	16.5	<0.01	0.06	9.6
YY11156	1.66	16.4	820	12.9	20.7	<0.001	0.02	0.51	3.0	0.4	0.9	19.7	<0.01	0.02	7.4
YY11157	1.47	14.3	800	34.8	26.0	<0.001	0.09	0.59	2.9	0.4	1.0	33.1	<0.01	0.04	2.2
YY11158	2.39	17.1	640	33.1	42.5	<0.001	0.03	0.66	3.2	0.4	1.7	17.2	<0.01	0.02	6.2
YY11159	1.61	20.0	890	132.5	24.0	<0.001	0.07	0.86	3.3	0.4	1.2	25.8	<0.01	0.07	3.2
YY11160	1.97	19.2	740	40.1	22.0	<0.001	0.03	0.49	2.8	0.5	1.3	19.3	<0.01	0.02	4.7



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY11121		0.084	0.24	2.18	57	0.25	13.80	83	1.3
YY11122		0.030	0.05	0.47	20	0.07	1.09	16	<0.5
YY11123		0.092	0.33	1.60	58	0.30	7.97	97	0.5
YY11124		0.081	0.28	2.14	48	0.24	14.30	83	0.8
YY11125		0.105	0.41	3.09	46	0.26	19.20	87	0.7
YY11126		0.102	0.30	2.64	51	0.36	18.05	86	0.9
YY11127		0.091	0.24	1.28	52	0.52	10.05	66	0.7
YY11128		0.080	0.12	0.81	60	0.21	6.47	58	1.2
YY11129		0.121	0.25	1.22	61	0.22	12.55	57	1.3
YY11130		0.132	0.29	1.22	67	0.20	6.95	48	1.1
YY11131		0.136	0.29	1.50	66	0.25	9.59	81	1.6
YY11132		0.117	0.20	1.21	64	0.33	7.02	49	1.3
YY11133		0.093	0.24	2.68	56	0.24	15.60	66	1.2
YY11134		0.111	0.38	3.19	42	0.24	19.05	90	1.0
YY11135		0.058	0.13	1.07	31	0.17	4.11	34	0.6
YY11136		0.062	0.25	4.11	47	0.22	16.75	128	0.7
YY11137		0.073	0.26	2.61	63	0.33	9.84	117	0.9
YY11138		0.067	0.21	1.67	52	0.22	7.71	119	0.8
YY11139		0.074	0.19	2.99	49	0.26	9.98	105	1.2
YY11140		0.109	0.22	3.71	60	0.32	19.60	81	2.5
YY11141		0.084	0.24	4.20	53	0.31	22.6	79	1.5
YY11142		0.096	0.17	0.99	68	0.29	5.81	61	1.0
YY11143		0.073	0.11	0.84	57	0.21	4.25	91	0.9
YY11144		0.093	0.19	1.94	46	0.19	20.2	67	1.3
YY11145		0.108	0.27	2.40	48	0.22	22.0	73	1.1
YY11146		0.140	0.40	1.72	65	0.27	16.85	87	0.9
YY11147		0.057	0.15	0.98	40	0.15	6.11	58	0.9
YY11148		0.097	0.23	2.47	54	0.28	16.50	97	1.0
YY11149		0.062	0.18	3.18	47	0.24	25.8	84	1.1
YY11150		0.067	0.18	2.54	43	0.18	13.35	82	0.7
YY11151		0.080	0.18	1.48	52	0.27	7.14	69	0.7
YY11152		0.103	0.28	1.73	46	0.21	10.75	90	0.8
YY11153		0.074	0.26	2.79	32	0.32	13.55	80	0.7
YY11154		0.042	0.16	2.42	32	0.57	12.00	37	0.5
YY11155		0.112	0.25	2.29	77	0.37	14.00	71	1.9
YY11156		0.111	0.19	1.14	51	0.22	10.15	51	1.4
YY11157		0.071	0.22	2.64	49	0.30	24.7	65	1.0
YY11158		0.135	0.35	1.08	57	0.26	8.54	63	1.1
YY11159		0.083	0.27	2.77	60	0.61	13.60	99	1.1
YY11160		0.108	0.15	0.89	53	0.26	7.88	60	1.3



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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY11161		0.45	0.002	0.05	1.63	14.7	<0.02	<10	80	0.51	0.31	0.21	0.19	33.1	7.1	25
YY11162		0.49	0.003	0.07	1.76	85.6	<0.02	<10	100	0.61	0.32	0.29	0.23	54.2	8.2	25
YY11163		0.51	0.001	0.10	2.17	16.7	<0.02	<10	220	0.99	0.19	0.38	0.28	47.2	10.5	44
YY11164		0.54	0.003	0.13	2.18	19.4	<0.02	<10	140	0.92	0.25	0.26	0.24	66.4	11.5	29
YY11165		0.48	0.001	0.22	2.25	84.5	<0.02	<10	110	1.56	0.29	0.23	1.69	101.0	10.5	22
YY11166		0.53	0.002	0.12	2.27	22.3	<0.02	<10	190	1.01	0.22	0.25	0.30	64.2	11.4	29
YY11167		0.45	0.001	0.08	2.19	13.8	<0.02	<10	110	0.95	0.20	0.27	0.29	47.9	9.9	22
YY11168		0.47	0.004	0.09	1.81	27.6	<0.02	<10	130	0.85	0.20	0.31	0.35	56.9	16.1	23
YY11169		0.53	0.002	0.12	2.04	14.1	<0.02	<10	140	0.86	0.21	0.35	0.23	56.1	8.2	23
YY11170		0.50	0.004	0.08	1.80	11.0	<0.02	<10	140	0.69	0.18	0.26	0.20	42.9	11.1	28
YY11171		0.42	0.001	0.03	1.06	6.0	<0.02	<10	80	0.38	0.12	0.14	0.10	20.3	4.9	14
YY11172		0.33	0.003	0.26	1.71	16.9	<0.02	<10	210	0.86	0.28	0.40	0.28	53.6	12.9	24
YY11173		0.58	0.001	0.13	1.90	11.1	<0.02	<10	90	0.57	0.42	0.23	0.17	53.2	6.1	23
YY11174		0.63	0.003	0.32	2.14	42.5	<0.02	<10	100	0.76	1.00	0.24	0.21	69.9	8.5	26
YY11175		0.62	0.002	0.66	1.68	49.2	<0.02	<10	90	0.94	1.08	0.21	0.20	69.4	5.9	19
YY11176		0.48	0.001	0.08	1.92	16.6	<0.02	<10	90	0.60	0.19	0.16	0.27	30.0	9.8	33
YY11177		0.48	0.003	0.05	1.89	9.6	<0.02	<10	70	0.56	0.19	0.14	0.18	25.6	8.2	28
YY11178		0.42	0.004	0.11	1.41	11.1	<0.02	<10	70	0.56	0.71	0.21	0.46	32.4	7.1	31
YY11179		0.62	0.005	0.11	1.65	15.3	<0.02	<10	100	0.83	0.39	0.30	0.44	50.9	10.0	29
YY11180		0.61	0.004	0.09	1.83	11.4	<0.02	<10	130	0.79	0.29	0.32	0.39	59.1	10.3	30
YY11181		0.60	0.002	0.11	1.39	13.9	<0.02	<10	120	0.59	0.42	0.24	0.35	45.7	8.2	25
YY11182		0.40	0.003	0.18	1.50	8.6	<0.02	<10	140	0.54	0.42	0.18	0.19	46.9	7.9	26
YY11183		0.37	0.003	0.17	1.59	9.9	<0.02	<10	140	0.50	0.43	0.21	0.20	47.6	10.8	25
YY11184		0.52	0.001	0.18	1.68	10.0	<0.02	<10	130	0.46	0.45	0.17	0.16	41.7	7.9	27
YY11185		0.54	0.001	0.16	1.65	12.2	<0.02	<10	130	0.45	0.39	0.17	0.14	42.3	9.2	27
YY11186		0.38	0.004	0.18	1.61	12.5	<0.02	<10	120	0.47	0.40	0.18	0.16	47.7	8.8	28
YY11187		0.68	0.002	0.13	1.62	10.6	<0.02	<10	110	0.44	0.37	0.23	0.16	38.9	7.1	27
YY11188		0.44	0.002	0.21	1.59	13.3	<0.02	<10	150	0.52	0.36	0.22	0.35	51.4	10.8	28
YY11189		0.37	0.001	0.15	1.45	14.0	<0.02	<10	140	0.52	0.33	0.31	0.20	48.5	12.4	25
YY11190		0.54	0.007	0.22	1.67	27.5	<0.02	<10	150	0.68	0.26	0.26	0.19	38.4	13.3	26
YY11191		0.46	0.002	0.23	1.78	10.3	<0.02	<10	160	0.55	0.27	0.26	0.15	39.2	7.7	28
YY11192		0.39	0.002	0.29	1.43	42.5	<0.02	<10	170	0.50	0.23	0.40	0.37	46.9	8.7	22
YY11193		0.40	<0.001	0.24	0.48	8.4	<0.02	<10	50	0.12	0.07	0.07	0.10	11.20	2.8	7
YY11194		0.50	0.002	0.71	1.86	211	<0.02	<10	140	0.63	0.65	0.17	0.70	30.3	7.0	24
YY11195		0.51	0.001	0.09	2.55	13.4	<0.02	<10	110	0.70	1.49	0.19	0.51	38.9	9.5	28
YY11196		0.52	0.001	0.09	2.61	26.7	<0.02	<10	120	1.45	0.29	0.40	0.19	106.0	7.5	26
YY11197		0.44	0.003	0.57	2.38	49.2	<0.02	<10	90	0.79	2.29	0.15	0.56	41.8	9.7	27
YY11198		0.54	0.001	0.24	2.09	12.8	<0.02	<10	100	0.60	0.63	0.12	0.51	30.0	7.3	26
YY11199		0.58	0.004	0.94	2.18	36.0	<0.02	<10	120	1.20	0.38	0.45	0.84	60.0	12.8	30
YY11200		0.47	0.001	0.24	1.10	10.4	<0.02	<10	90	0.64	0.13	0.22	0.47	47.3	5.4	15



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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY11161		1.65	12.9	2.42	6.30	0.06	0.03	0.02	0.028	0.11	17.6	18.7	0.56	233	0.95	0.01
YY11162		1.95	18.3	2.63	6.26	0.09	0.05	0.05	0.027	0.12	27.0	18.4	0.58	207	0.55	0.02
YY11163		5.08	21.4	3.33	8.02	0.10	0.02	0.03	0.034	0.46	24.1	26.1	1.06	334	0.67	0.02
YY11164		2.88	23.2	3.03	7.70	0.12	0.04	0.03	0.044	0.19	29.9	21.6	0.62	392	0.78	0.01
YY11165		7.62	21.0	3.14	8.21	0.11	0.03	0.05	0.068	0.23	40.4	26.4	0.58	580	0.97	0.01
YY11166		3.71	22.7	3.43	9.28	0.11	0.03	0.05	0.046	0.22	32.6	26.8	0.71	309	0.85	0.02
YY11167		4.02	15.6	3.30	8.32	0.09	0.06	0.02	0.034	0.33	25.5	27.6	0.70	291	0.88	0.01
YY11168		3.65	17.2	3.26	7.62	0.13	0.05	0.02	0.036	0.32	30.1	25.8	0.67	390	0.93	0.02
YY11169		3.58	21.4	3.64	7.86	0.12	0.05	0.04	0.030	0.35	29.7	25.1	0.69	204	0.82	0.01
YY11170		2.51	14.9	3.06	7.08	0.09	0.04	0.04	0.031	0.23	20.5	21.9	0.60	478	0.99	0.01
YY11171		1.19	15.5	1.89	5.19	<0.05	0.02	0.01	0.015	0.05	9.9	7.7	0.26	164	0.84	0.02
YY11172		2.01	21.6	2.45	6.50	0.09	0.03	0.05	0.030	0.11	25.7	15.7	0.44	671	1.18	0.02
YY11173		2.33	13.6	2.36	7.11	0.09	0.02	0.04	0.031	0.13	29.4	22.0	0.56	176	0.61	0.01
YY11174		2.35	21.4	2.78	6.97	0.13	0.05	0.05	0.034	0.14	37.3	23.4	0.58	207	0.70	0.01
YY11175		4.48	23.0	2.73	7.04	0.12	<0.02	0.03	0.030	0.11	38.9	23.1	0.54	263	1.50	0.01
YY11176		1.53	18.3	2.72	7.38	0.06	0.02	0.04	0.023	0.11	13.8	18.5	0.60	373	0.99	0.01
YY11177		1.27	19.8	2.72	6.56	0.05	0.03	0.06	0.031	0.07	11.9	20.0	0.48	286	0.97	0.01
YY11178		4.26	18.6	2.52	7.53	0.06	0.02	0.06	0.038	0.13	17.0	16.8	0.60	311	1.08	0.02
YY11179		3.03	21.4	2.74	6.54	0.09	0.03	0.02	0.037	0.14	24.3	23.8	0.68	492	1.12	0.01
YY11180		2.29	19.9	2.74	6.59	0.12	0.03	0.03	0.028	0.15	29.3	22.3	0.75	495	0.88	0.02
YY11181		2.46	14.0	2.54	6.26	0.08	0.02	0.03	0.032	0.10	24.2	15.3	0.49	405	1.06	0.01
YY11182		2.06	12.1	2.17	6.08	0.07	0.02	0.07	0.027	0.07	23.3	14.6	0.45	245	1.05	0.01
YY11183		2.20	11.1	2.20	6.35	0.08	<0.02	0.05	0.031	0.08	24.3	15.8	0.48	545	1.07	0.01
YY11184		2.19	11.3	2.15	6.54	0.06	<0.02	0.06	0.031	0.07	21.7	16.5	0.50	241	1.04	0.01
YY11185		2.19	10.6	2.29	6.60	0.08	<0.02	0.07	0.032	0.07	21.6	16.5	0.48	385	1.08	0.02
YY11186		2.03	12.5	2.14	6.49	0.08	0.02	0.05	0.035	0.08	22.8	17.1	0.48	267	1.00	0.01
YY11187		1.75	10.8	2.18	6.64	0.06	0.02	0.04	0.047	0.09	20.1	18.1	0.52	169	0.73	0.01
YY11188		1.64	12.8	2.61	6.89	0.07	0.02	0.08	0.038	0.10	24.5	16.5	0.46	559	1.24	0.01
YY11189		1.56	14.3	2.54	6.26	0.09	0.02	0.04	0.036	0.11	23.5	16.2	0.48	600	1.07	0.01
YY11190		1.92	12.9	2.51	6.95	0.07	0.02	0.04	0.025	0.11	19.4	17.3	0.52	585	0.97	0.02
YY11191		1.85	14.1	2.22	6.87	0.07	0.03	0.06	0.028	0.11	20.9	17.1	0.53	167	0.93	0.02
YY11192		1.72	13.8	2.06	5.86	0.10	0.02	0.04	0.028	0.14	25.3	14.9	0.48	278	0.95	0.02
YY11193		0.52	7.0	1.05	2.92	<0.05	<0.02	0.04	0.009	0.03	5.4	2.1	0.08	66	0.52	0.02
YY11194		1.42	22.2	2.82	6.19	<0.05	<0.02	0.08	0.055	0.10	14.9	17.3	0.39	422	1.12	0.02
YY11195		1.29	15.7	3.00	5.59	0.05	0.06	0.04	0.028	0.10	19.7	23.1	0.44	382	0.93	0.02
YY11196		7.29	11.9	3.41	12.15	0.09	<0.02	0.02	0.036	0.46	36.6	35.4	1.29	401	1.18	0.01
YY11197		2.23	29.8	3.17	7.05	0.05	0.03	0.07	0.051	0.19	19.9	22.2	0.56	406	1.01	0.01
YY11198		1.72	21.2	3.12	8.19	<0.05	0.02	0.06	0.040	0.13	14.3	19.1	0.42	354	1.35	0.01
YY11199		3.48	36.5	3.64	9.09	0.09	0.03	0.05	0.130	0.30	37.0	28.6	0.68	658	1.34	0.02
YY11200		1.36	17.1	1.80	4.43	0.08	<0.02	0.03	0.020	0.07	28.8	8.5	0.25	246	0.72	0.02



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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
Units		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY11161		1.63	18.6	640	9.8	20.5	<0.001	0.03	0.46	2.9	0.2	1.2	15.5	<0.01	0.02	4.0
YY11162		1.84	18.6	840	35.6	22.4	<0.001	0.02	0.76	4.1	0.4	1.2	17.9	<0.01	0.02	8.8
YY11163		1.56	22.4	880	43.7	53.2	<0.001	0.01	0.66	5.1	<0.2	1.3	23.8	<0.01	0.01	7.3
YY11164		1.75	22.0	780	66.7	29.0	<0.001	0.02	0.73	4.9	<0.2	1.1	17.4	<0.01	0.04	8.0
YY11165		1.36	19.1	850	259	36.3	<0.001	0.02	2.10	3.8	0.2	1.4	13.2	<0.01	0.02	13.6
YY11166		1.64	20.4	660	69.1	38.3	<0.001	0.02	0.84	5.9	0.3	1.6	19.0	<0.01	0.03	6.7
YY11167		2.18	17.1	860	31.6	46.5	<0.001	0.02	0.67	4.3	0.4	1.3	15.9	<0.01	0.01	8.4
YY11168		1.66	18.9	890	33.6	43.5	<0.001	0.02	0.61	4.3	0.3	1.0	19.2	<0.01	0.02	7.7
YY11169		1.91	16.6	980	28.5	45.8	<0.001	0.03	0.70	4.9	0.6	1.1	19.1	<0.01	0.02	8.6
YY11170		1.70	18.6	710	20.5	32.1	<0.001	0.03	0.61	4.1	0.3	0.9	17.6	<0.01	0.03	6.4
YY11171		0.89	8.8	420	9.6	7.3	<0.001	0.02	0.34	1.5	0.3	0.5	12.7	0.01	0.02	1.3
YY11172		1.03	18.0	820	49.2	19.6	<0.001	0.08	0.78	2.7	0.5	0.8	28.6	<0.01	0.03	2.0
YY11173		1.72	16.4	740	15.9	21.9	<0.001	0.03	0.77	3.2	0.5	0.8	14.6	<0.01	0.01	4.3
YY11174		1.85	19.8	740	33.0	24.3	<0.001	0.02	1.26	4.5	0.7	0.8	14.7	<0.01	0.02	8.5
YY11175		1.00	13.4	670	73.3	22.2	<0.001	0.03	1.83	2.4	0.6	0.8	13.7	<0.01	0.02	5.1
YY11176		1.42	25.8	420	39.4	20.0	<0.001	0.04	0.58	2.7	0.2	0.7	14.0	<0.01	0.03	1.6
YY11177		1.47	22.5	430	12.1	12.6	<0.001	0.04	0.55	2.5	0.3	0.7	12.8	<0.01	0.03	1.6
YY11178		1.28	19.4	820	25.3	24.0	<0.001	0.06	0.96	2.2	0.5	1.0	15.2	<0.01	0.03	1.6
YY11179		1.50	26.2	990	40.1	27.5	<0.001	0.03	0.99	3.1	<0.2	0.8	17.5	<0.01	0.02	6.5
YY11180		1.56	27.6	1050	21.9	28.8	<0.001	0.02	0.77	3.4	0.5	0.7	18.1	<0.01	0.03	8.2
YY11181		1.12	17.9	750	25.2	18.8	<0.001	0.04	0.74	2.2	0.3	0.6	18.4	<0.01	0.02	3.1
YY11182		1.01	16.4	760	30.1	18.6	<0.001	0.07	0.56	2.2	0.3	0.6	17.5	<0.01	<0.01	1.4
YY11183		1.01	16.4	770	32.1	19.6	<0.001	0.06	0.63	2.4	0.5	0.6	17.7	<0.01	0.02	1.7
YY11184		0.99	16.4	700	34.3	18.6	<0.001	0.05	0.59	2.4	0.4	0.7	15.6	<0.01	0.02	1.8
YY11185		0.98	16.3	680	29.2	18.1	<0.001	0.05	0.58	2.5	0.6	0.7	15.5	<0.01	0.02	1.7
YY11186		1.13	17.0	760	30.5	18.2	<0.001	0.06	0.77	2.9	0.7	0.7	15.6	<0.01	0.01	2.1
YY11187		1.34	16.7	770	32.1	19.2	<0.001	0.03	0.82	3.1	0.7	0.8	16.1	<0.01	0.02	4.0
YY11188		1.21	17.3	930	24.0	18.8	<0.001	0.08	0.84	2.6	0.4	0.8	20.1	<0.01	0.01	1.8
YY11189		1.25	17.6	1100	24.2	18.6	<0.001	0.05	1.03	3.0	<0.2	0.8	20.5	<0.01	0.03	3.3
YY11190		1.29	17.2	790	32.6	20.0	<0.001	0.04	0.54	3.0	<0.2	1.0	20.3	<0.01	0.01	2.9
YY11191		1.57	17.5	680	28.5	20.9	<0.001	0.04	0.48	4.0	0.3	0.9	21.1	<0.01	0.02	3.8
YY11192		1.43	15.7	730	34.5	23.5	<0.001	0.05	0.57	3.2	0.4	0.9	27.7	<0.01	0.02	2.8
YY11193		0.41	4.2	250	12.3	4.0	<0.001	0.03	0.22	0.7	0.2	0.3	11.0	<0.01	0.02	0.2
YY11194		1.42	17.1	620	131.5	18.0	<0.001	0.06	0.98	2.1	0.4	0.7	16.3	<0.01	0.07	1.8
YY11195		1.75	21.8	750	27.8	14.3	0.001	0.04	0.67	3.2	0.4	0.6	13.9	0.01	0.03	5.4
YY11196		1.40	15.9	1040	24.0	49.1	<0.001	0.02	2.51	4.4	0.2	1.0	21.2	<0.01	0.03	17.7
YY11197		1.96	19.4	480	98.2	28.9	0.001	0.04	1.08	3.8	0.5	1.0	12.2	<0.01	0.08	4.8
YY11198		1.71	15.8	500	37.7	25.9	<0.001	0.05	0.74	2.8	0.2	1.1	12.2	<0.01	0.24	1.8
YY11199		1.75	16.6	800	242	46.7	0.001	0.04	1.14	5.7	0.2	1.4	23.5	<0.01	0.03	7.3
YY11200		0.76	9.8	670	36.8	10.1	<0.001	0.05	0.53	1.5	0.2	0.5	17.0	<0.01	0.02	1.4



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY11161		0.098	0.17	1.08	49	0.21	7.41	55	1.3
YY11162		0.100	0.22	1.84	46	0.22	15.10	91	2.1
YY11163		0.153	0.42	1.25	64	0.17	13.50	80	1.2
YY11164		0.104	0.23	1.13	55	0.19	15.05	96	1.8
YY11165		0.062	0.31	2.40	46	0.19	17.80	256	0.9
YY11166		0.127	0.32	1.86	69	0.19	19.65	96	1.2
YY11167		0.152	0.38	1.27	65	0.22	13.00	69	2.0
YY11168		0.150	0.38	1.48	70	0.26	14.15	74	1.6
YY11169		0.157	0.39	1.93	76	0.26	14.90	65	2.1
YY11170		0.126	0.24	1.26	62	0.23	10.40	66	1.4
YY11171		0.074	0.11	0.42	44	0.15	4.01	40	0.7
YY11172		0.064	0.20	1.56	52	0.23	14.95	74	0.9
YY11173		0.083	0.23	1.27	38	0.15	11.25	67	0.7
YY11174		0.098	0.27	2.66	44	0.17	14.00	94	1.9
YY11175		0.054	0.25	4.08	39	0.19	15.65	102	<0.5
YY11176		0.101	0.18	0.70	61	0.27	4.48	75	1.0
YY11177		0.084	0.13	0.86	55	0.19	4.15	77	1.3
YY11178		0.079	0.20	1.45	53	0.28	7.69	88	0.9
YY11179		0.091	0.21	2.19	52	0.24	11.85	121	1.0
YY11180		0.104	0.24	1.93	50	0.22	14.35	91	1.3
YY11181		0.078	0.17	1.74	53	0.41	10.15	81	0.7
YY11182		0.061	0.19	2.41	44	0.27	9.62	60	0.8
YY11183		0.066	0.20	2.18	44	0.19	8.88	70	0.5
YY11184		0.066	0.20	2.13	48	0.28	7.72	67	0.6
YY11185		0.067	0.20	2.00	48	0.41	7.50	66	0.6
YY11186		0.069	0.21	2.19	48	0.23	8.98	64	0.7
YY11187		0.083	0.18	1.70	45	0.34	7.80	70	0.7
YY11188		0.073	0.20	1.75	56	0.52	10.70	69	0.8
YY11189		0.077	0.18	1.64	52	0.43	12.45	71	0.8
YY11190		0.080	0.21	1.41	52	0.40	10.00	55	0.8
YY11191		0.088	0.20	2.06	55	0.29	9.97	54	0.9
YY11192		0.085	0.20	1.95	43	0.22	14.30	65	1.0
YY11193		0.047	0.08	0.43	27	0.08	2.27	23	<0.5
YY11194		0.070	0.17	0.88	52	0.26	5.51	165	0.6
YY11195		0.087	0.14	0.89	53	0.25	8.80	74	1.6
YY11196		0.078	0.44	1.56	42	0.12	20.4	66	<0.5
YY11197		0.116	0.25	1.21	58	0.23	10.35	153	1.0
YY11198		0.105	0.20	0.91	71	0.24	5.83	96	0.9
YY11199		0.122	0.35	2.06	68	0.61	20.3	263	1.1
YY11200		0.057	0.11	1.13	38	0.19	14.20	80	0.7



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	CERTIFICATE COMMENTS
Applies to Method:	<p style="text-align: center;">ANALYTICAL COMMENTS</p> <p>Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g). ME-MS41</p> <p style="text-align: center;">LABORATORY ADDRESSES</p> <p>Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada. Applies to Method: LOG-22 SCR-41 WEI-21</p> <p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. Applies to Method: Au-ICP21 ME-MS41</p>



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This report is for 99 Soil samples submitted to our lab in Whitehorse, YT, Canada on 12-AUG-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	JULIA LANE
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	Ultra Trace Aqua Regia ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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Sample Description	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
Method Analyte Units LOD	0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY11401	0.43	0.004	0.48	1.76	35.0	<0.02	<10	160	0.47	0.49	0.21	0.30	22.5	5.9	24
YY11402	0.55	0.004	0.26	1.72	32.5	<0.02	<10	140	0.38	0.64	0.24	0.32	21.1	6.2	23
YY11403	0.50	0.001	0.35	1.92	22.5	<0.02	<10	190	0.53	0.50	0.23	0.24	29.2	6.5	26
YY11404	0.47	0.002	0.27	1.76	31.4	<0.02	<10	150	0.52	0.65	0.25	0.35	23.3	5.8	23
YY11405	0.55	0.002	0.14	1.80	50.8	<0.02	<10	140	0.48	0.56	0.27	0.37	25.2	7.1	23
YY11406	0.41	0.001	0.34	1.52	23.6	<0.02	<10	130	0.38	0.47	0.17	0.30	21.4	4.3	19
YY11407	0.47	0.001	0.22	2.08	31.2	0.05	<10	150	0.45	0.58	0.20	0.33	21.0	7.4	29
YY11408	0.44	0.002	0.19	1.78	34.6	<0.02	<10	120	0.38	0.60	0.16	0.22	22.0	5.6	25
YY11409	0.45	0.001	0.09	1.95	12.1	<0.02	<10	150	0.43	0.37	0.16	0.21	18.05	7.0	26
YY11410	0.43	<0.001	0.05	2.12	20.9	<0.02	<10	160	0.41	1.17	0.13	0.25	23.1	7.3	29
YY11411	0.46	<0.001	0.09	2.00	11.0	<0.02	<10	180	0.50	0.35	0.23	0.13	26.3	7.4	27
YY11412	0.56	<0.001	0.09	1.91	11.4	<0.02	<10	260	0.70	0.24	0.35	0.14	35.8	9.8	33
YY11413	0.52	0.001	0.12	1.95	54.3	<0.02	<10	160	0.68	0.92	0.22	0.41	38.6	7.9	25
YY11414	0.48	0.002	0.12	2.12	63.1	<0.02	<10	160	0.77	1.62	0.38	0.18	35.6	8.4	25
YY11415	0.49	0.001	0.14	2.62	74.8	<0.02	<10	150	0.87	0.50	0.42	0.23	31.8	9.5	24
YY11416	0.49	<0.001	0.15	2.23	24.9	<0.02	<10	180	0.54	0.35	0.33	0.16	25.2	7.7	21
YY11417	0.52	<0.001	0.02	2.96	11.7	<0.02	<10	210	0.82	0.20	0.79	0.14	31.7	9.5	20
YY11418	0.37	0.002	0.57	2.71	44.5	<0.02	<10	340	0.95	2.70	0.28	0.35	32.8	8.5	32
YY11419	0.63	0.001	0.20	1.57	20.2	<0.02	<10	160	0.53	2.51	0.37	0.24	39.5	9.1	23
YY11420	0.59	<0.001	0.29	1.85	12.0	<0.02	<10	170	0.84	1.65	0.49	0.16	32.6	6.7	19
YY11421	0.62	0.001	0.19	2.35	24.5	<0.02	<10	150	0.90	1.31	0.67	0.23	36.0	9.3	21
YY11422	0.53	<0.001	0.09	1.75	13.5	<0.02	<10	100	0.50	0.83	0.20	0.19	25.1	4.2	20
YY11423	0.51	0.001	0.08	2.43	12.3	<0.02	<10	130	0.69	1.11	0.31	0.23	26.4	8.6	23
YY11424	0.51	<0.001	0.03	2.72	12.9	<0.02	<10	140	0.81	3.23	0.34	0.25	26.6	9.9	26
YY11425	0.18	0.001	0.03	2.16	17.6	<0.02	<10	100	0.53	2.61	0.30	0.11	27.3	7.4	20
YY11426	0.57	<0.001	0.07	2.78	10.4	<0.02	<10	140	0.91	1.07	0.89	0.16	31.0	5.8	19
YY11427	0.55	<0.001	0.30	2.42	38.5	<0.02	<10	120	0.53	3.25	0.51	0.22	22.0	5.5	18
YY11428	0.50	<0.001	0.33	2.19	19.9	<0.02	<10	120	0.72	1.37	0.42	0.33	25.8	6.0	18
YY11429	0.57	<0.001	0.11	2.01	10.6	<0.02	<10	130	0.83	1.56	0.59	0.30	56.1	4.5	10
YY11430	0.51	<0.001	0.19	1.60	20.8	<0.02	<10	100	0.46	3.97	0.17	0.45	30.2	4.0	15
YY11431	0.58	0.003	0.45	1.85	105.0	<0.02	<10	90	0.64	2.15	0.30	0.65	33.3	4.9	16
YY11432	0.54	0.001	0.40	1.49	78.4	<0.02	<10	90	0.48	1.13	0.28	0.56	32.1	4.2	15
YY11433	0.57	<0.001	0.53	2.30	81.6	<0.02	<10	150	1.38	1.39	0.68	1.03	52.7	7.1	14
YY11434	0.54	0.003	0.94	2.57	59.1	<0.02	<10	180	1.09	0.61	0.61	0.43	41.1	8.5	26
YY11435	0.56	0.002	0.40	1.73	79.7	<0.02	<10	160	0.82	0.58	0.43	0.49	38.2	10.3	22
YY11436	0.56	0.018	0.61	2.49	183.5	<0.02	<10	240	0.87	1.29	0.39	0.38	41.7	10.7	33
YY11437	0.52	0.009	2.00	3.56	406	<0.02	<10	230	1.09	1.59	0.67	0.82	32.3	9.5	43
YY11438	0.54	<0.001	0.23	2.89	46.4	<0.02	<10	610	1.14	0.32	0.81	0.65	66.7	14.1	43
YY11439	0.48	0.002	0.23	2.00	79.0	<0.02	<10	140	0.50	0.25	0.08	0.30	24.0	6.8	41
YY11440	0.53	<0.001	0.22	2.98	132.0	<0.02	<10	300	0.80	0.66	0.08	0.57	31.3	8.5	74



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
YY11401		1.50	19.3	2.47	6.68	<0.05	0.02	0.04	0.024	0.04	12.8	12.5	0.42	211	3.18	<0.01
YY11402		1.45	16.3	2.62	6.56	<0.05	0.02	0.04	0.024	0.05	12.7	12.2	0.45	263	4.24	<0.01
YY11403		1.26	20.5	2.62	6.80	<0.05	0.02	0.03	0.026	0.04	16.2	11.6	0.42	259	3.59	<0.01
YY11404		1.73	19.7	2.39	6.24	0.05	0.03	0.02	0.026	0.05	14.1	14.6	0.44	223	7.45	<0.01
YY11405		2.09	19.5	2.55	6.41	<0.05	0.02	0.02	0.026	0.05	15.3	13.4	0.46	370	4.29	<0.01
YY11406		1.83	17.6	2.00	6.20	<0.05	<0.02	0.02	0.020	0.04	12.4	9.6	0.31	193	6.99	<0.01
YY11407		1.53	17.6	3.06	7.61	<0.05	0.07	0.02	0.028	0.05	12.6	15.7	0.52	287	2.29	<0.01
YY11408		1.31	16.1	2.51	6.85	<0.05	<0.02	0.02	0.024	0.04	12.7	11.4	0.41	223	1.44	<0.01
YY11409		1.02	18.4	2.41	6.25	<0.05	<0.02	0.02	0.019	0.05	9.9	10.4	0.39	221	0.80	0.01
YY11410		1.36	20.5	3.20	6.54	<0.05	0.03	0.03	0.030	0.05	10.2	14.8	0.41	230	1.29	0.01
YY11411		1.16	18.1	2.48	5.90	<0.05	0.02	0.02	0.022	0.04	13.4	13.3	0.44	204	0.89	0.01
YY11412		1.08	26.3	2.72	5.55	0.05	0.04	0.03	0.024	0.06	17.9	13.3	0.58	316	0.69	0.01
YY11413		1.55	19.2	2.61	5.44	0.05	0.03	0.02	0.030	0.05	18.2	14.3	0.44	367	1.24	0.01
YY11414		1.64	34.7	2.74	6.24	0.05	0.03	0.02	0.029	0.05	18.7	15.1	0.51	387	1.51	0.01
YY11415		2.66	20.3	3.21	7.32	0.05	0.03	0.02	0.036	0.05	15.2	21.5	0.51	438	1.54	0.01
YY11416		3.16	20.6	2.71	7.48	0.05	<0.02	0.03	0.028	0.07	12.3	17.2	0.44	289	1.37	0.01
YY11417		4.86	18.2	3.18	8.89	0.05	0.05	0.02	0.025	0.13	14.5	22.1	0.56	345	0.97	0.01
YY11418		2.33	53.4	3.35	7.90	0.05	<0.02	0.07	0.035	0.08	16.9	17.1	0.46	291	3.30	0.01
YY11419		1.64	29.8	2.98	5.66	0.06	0.04	0.01	0.026	0.05	20.1	18.0	0.51	371	2.31	0.01
YY11420		3.53	28.7	3.05	6.73	0.05	<0.02	0.02	0.022	0.06	20.0	14.9	0.39	311	2.16	0.01
YY11421		4.37	40.8	3.21	7.86	0.06	0.03	0.05	0.027	0.09	22.3	20.1	0.53	350	5.34	0.01
YY11422		2.02	21.4	2.43	7.55	<0.05	<0.02	0.01	0.021	0.04	13.0	14.2	0.30	150	3.50	0.01
YY11423		2.26	24.2	2.98	6.83	<0.05	0.03	0.03	0.027	0.05	14.7	18.8	0.46	272	2.52	0.01
YY11424		2.64	29.2	3.53	6.97	<0.05	0.05	0.02	0.026	0.06	14.8	23.0	0.51	388	3.08	0.01
YY11425		4.32	35.7	4.01	11.00	<0.05	0.06	0.02	0.024	0.08	16.1	17.4	0.53	372	7.38	0.01
YY11426		4.98	25.1	2.55	7.84	<0.05	0.02	0.02	0.021	0.09	19.4	14.9	0.42	240	3.18	0.01
YY11427		5.01	52.0	3.35	9.57	<0.05	0.03	0.01	0.026	0.11	13.4	19.5	0.51	282	67.7	0.02
YY11428		2.64	47.5	2.54	6.79	<0.05	<0.02	0.02	0.022	0.06	15.9	19.3	0.37	229	24.1	0.01
YY11429		3.23	48.3	2.21	7.11	0.05	<0.02	0.01	0.015	0.10	39.3	17.0	0.42	253	10.30	0.02
YY11430		1.90	33.5	2.29	7.65	<0.05	0.02	0.01	0.018	0.06	17.7	14.3	0.31	184	28.9	<0.01
YY11431		3.37	51.5	2.79	7.08	0.05	0.03	0.02	0.027	0.12	20.5	24.6	0.45	239	51.2	0.01
YY11432		2.14	39.2	2.25	6.51	<0.05	0.02	0.03	0.026	0.07	19.5	15.7	0.35	213	33.4	0.01
YY11433		7.66	72.5	3.20	8.36	0.06	0.06	0.01	0.031	0.18	34.2	21.3	0.53	412	27.3	0.01
YY11434		3.13	26.3	3.29	8.09	0.05	0.12	0.02	0.030	0.07	23.7	18.0	0.48	294	5.70	0.01
YY11435		2.04	30.1	3.03	6.44	0.06	0.02	0.03	0.025	0.06	20.6	14.6	0.45	443	8.13	0.01
YY11436		2.28	59.1	3.27	6.84	0.05	0.10	0.06	0.037	0.10	24.0	18.4	0.60	407	2.75	0.01
YY11437		5.72	61.8	3.92	11.10	0.05	0.05	0.04	0.067	0.25	17.0	28.0	0.73	535	3.60	0.01
YY11438		3.51	36.9	3.80	10.25	0.10	0.08	0.02	0.039	0.12	28.4	21.3	0.79	492	1.56	0.02
YY11439		1.95	28.4	3.24	7.42	<0.05	0.02	0.02	0.026	0.07	12.0	15.7	0.42	287	2.84	0.01
YY11440		3.80	65.7	4.36	8.38	<0.05	<0.02	0.01	0.071	0.16	15.5	29.4	0.82	326	3.49	0.01



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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units LOD	ppm 0.05	ppm 0.2	ppm 10	ppm 0.2	ppm 0.1	ppm 0.001	% 0.01	ppm 0.05	ppm 0.1	ppm 0.2	ppm 0.2	ppm 0.2	ppm 0.01	ppm 0.01	ppm 0.2
YY11401		1.16	14.6	420	35.5	10.8	<0.001	0.01	0.40	3.0	0.3	0.5	35.1	<0.01	0.03	2.3
YY11402		1.16	13.3	460	55.0	9.7	<0.001	0.01	0.53	2.7	0.2	0.5	47.0	<0.01	0.02	5.6
YY11403		1.12	14.7	480	49.1	8.9	<0.001	0.01	0.37	3.5	0.2	0.5	43.7	<0.01	0.03	3.2
YY11404		1.24	14.1	440	57.9	11.8	<0.001	0.01	0.47	3.0	0.2	0.4	55.3	<0.01	0.03	11.8
YY11405		1.04	14.3	400	60.8	9.6	<0.001	0.01	0.68	2.4	0.2	0.4	68.7	<0.01	0.03	3.6
YY11406		0.65	9.8	510	40.5	10.1	<0.001	0.02	0.38	1.3	0.3	0.4	42.7	<0.01	0.03	0.4
YY11407		1.47	16.7	310	30.7	10.1	<0.001	0.01	0.59	3.5	<0.2	0.6	44.5	<0.01	0.04	5.7
YY11408		1.02	14.1	450	42.3	9.4	<0.001	0.01	0.42	2.1	<0.2	0.5	34.7	<0.01	0.04	1.3
YY11409		1.15	16.1	390	21.7	7.7	<0.001	0.01	0.34	2.2	0.2	0.5	33.1	<0.01	0.03	1.1
YY11410		1.69	21.9	400	21.1	8.3	<0.001	0.01	0.57	2.8	0.3	0.6	26.4	<0.01	0.04	2.3
YY11411		1.06	20.3	780	12.4	9.4	<0.001	0.01	0.32	2.3	0.2	0.5	34.9	<0.01	0.03	0.7
YY11412		1.94	32.9	750	11.6	7.6	<0.001	0.01	0.39	3.9	<0.2	0.5	61.4	<0.01	0.02	1.6
YY11413		1.07	17.2	610	69.3	8.1	<0.001	<0.01	0.47	3.2	0.3	0.5	96.3	<0.01	0.04	3.7
YY11414		1.17	18.2	770	34.2	7.8	<0.001	0.01	0.59	3.4	0.4	0.5	55.3	0.01	0.04	4.5
YY11415		1.48	16.4	770	46.1	10.2	<0.001	0.01	0.48	3.3	0.4	0.5	70.7	0.01	0.03	3.8
YY11416		1.57	15.1	600	22.9	14.9	<0.001	0.01	0.44	2.9	0.5	0.6	65.8	<0.01	0.04	2.1
YY11417		2.79	15.4	780	22.0	22.4	<0.001	<0.01	0.37	3.4	0.2	0.6	122.0	<0.01	0.03	13.2
YY11418		0.99	23.8	960	43.5	16.5	<0.001	0.05	0.64	3.6	0.4	0.6	57.6	<0.01	0.07	1.9
YY11419		1.32	15.7	960	96.4	10.5	<0.001	0.01	0.47	3.1	0.2	0.5	73.8	<0.01	0.04	8.9
YY11420		0.76	11.3	1090	47.0	11.4	<0.001	0.02	0.35	2.1	0.3	0.5	87.0	<0.01	0.05	2.7
YY11421		1.29	13.8	1080	39.8	18.3	<0.001	0.01	0.43	3.3	0.3	0.5	130.5	<0.01	0.06	8.6
YY11422		1.11	9.5	460	25.4	9.9	<0.001	0.01	0.36	1.9	0.2	0.7	45.4	<0.01	0.05	1.7
YY11423		1.56	15.8	650	21.7	11.1	<0.001	0.01	0.39	3.1	0.4	0.5	62.4	<0.01	0.05	7.2
YY11424		1.86	17.3	670	21.0	12.2	<0.001	0.01	0.46	3.4	0.2	0.5	59.6	<0.01	0.06	10.2
YY11425		2.56	11.6	690	23.1	18.9	<0.001	0.01	0.43	2.7	0.3	0.6	87.5	<0.01	0.09	20.0
YY11426		1.27	11.0	710	23.6	16.1	<0.001	<0.01	0.33	2.8	0.2	0.5	132.5	<0.01	0.03	6.1
YY11427		1.86	10.1	550	37.4	27.9	<0.001	0.01	0.52	3.2	<0.2	0.7	136.0	<0.01	0.05	9.7
YY11428		1.08	11.4	430	26.1	13.7	<0.001	<0.01	0.53	2.5	<0.2	0.5	79.2	<0.01	0.05	5.2
YY11429		0.75	6.0	880	19.9	19.2	<0.001	<0.01	0.38	2.2	<0.2	0.4	131.5	<0.01	0.04	9.3
YY11430		1.25	8.2	410	34.7	16.8	<0.001	<0.01	0.41	2.2	0.2	0.6	45.9	<0.01	0.03	7.0
YY11431		1.37	9.2	660	136.5	25.1	<0.001	0.02	0.62	2.8	<0.2	0.6	76.1	<0.01	0.18	10.7
YY11432		1.23	7.7	530	98.9	21.7	<0.001	0.01	0.54	2.5	<0.2	0.6	68.2	<0.01	0.06	6.8
YY11433		1.39	9.8	1050	128.0	47.1	<0.001	<0.01	1.62	4.4	0.3	0.7	173.5	0.01	0.10	21.7
YY11434		1.09	18.0	830	160.0	13.8	<0.001	<0.01	1.06	4.9	0.2	0.6	84.6	0.01	0.04	11.7
YY11435		1.08	15.7	950	81.1	11.7	<0.001	<0.01	0.67	3.0	0.4	0.5	59.6	<0.01	0.04	4.8
YY11436		1.42	23.1	500	125.0	15.1	<0.001	0.01	1.50	4.8	0.2	0.5	67.6	0.01	0.03	9.8
YY11437		3.15	27.3	630	278	37.2	<0.001	0.04	2.34	5.9	0.3	0.7	112.5	0.01	0.04	8.0
YY11438		5.16	37.6	2950	66.7	19.2	<0.001	0.01	0.88	5.7	0.6	0.6	170.5	0.01	0.07	7.2
YY11439		1.39	23.5	440	49.3	14.7	<0.001	0.03	1.24	3.5	0.6	0.5	16.8	<0.01	0.06	3.0
YY11440		2.26	40.0	570	168.5	21.3	0.001	0.10	1.26	6.1	2.1	0.3	36.4	<0.01	0.12	3.4



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Project: CN

CERTIFICATE OF ANALYSIS WH19198397

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
YY11401		0.073	0.11	2.05	58	1.20	4.08	58	0.7
YY11402		0.072	0.10	1.33	61	4.44	3.31	68	0.8
YY11403		0.067	0.10	2.57	59	0.74	6.00	59	0.8
YY11404		0.066	0.10	2.00	52	2.37	4.00	66	1.1
YY11405		0.064	0.10	1.67	53	3.62	3.39	98	0.5
YY11406		0.049	0.10	1.56	46	1.01	3.23	52	<0.5
YY11407		0.083	0.12	1.24	72	0.43	3.16	72	2.7
YY11408		0.066	0.10	1.66	59	0.28	3.20	67	0.6
YY11409		0.072	0.08	0.71	54	0.19	2.72	50	0.8
YY11410		0.086	0.11	0.84	65	0.84	3.23	49	1.4
YY11411		0.064	0.10	0.87	54	0.23	4.53	46	0.5
YY11412		0.121	0.11	1.57	59	0.33	9.63	55	1.8
YY11413		0.061	0.11	1.21	52	0.27	5.19	94	1.0
YY11414		0.073	0.15	3.30	57	0.32	5.78	72	1.4
YY11415		0.074	0.17	1.94	67	0.29	5.29	72	0.8
YY11416		0.084	0.16	2.39	61	1.01	5.03	57	0.8
YY11417		0.140	0.21	2.12	71	0.40	6.11	56	2.4
YY11418		0.053	0.19	6.12	61	4.38	8.59	83	0.6
YY11419		0.087	0.16	2.60	64	4.19	5.26	67	1.4
YY11420		0.057	0.14	5.65	66	5.73	5.08	55	<0.5
YY11421		0.095	0.21	5.85	65	10.85	4.97	68	1.0
YY11422		0.064	0.14	3.06	62	1.56	3.37	41	<0.5
YY11423		0.076	0.17	1.93	60	1.41	3.72	53	1.1
YY11424		0.087	0.17	2.02	66	1.64	3.86	59	2.0
YY11425		0.138	0.21	3.53	86	3.50	3.01	56	1.8
YY11426		0.078	0.23	2.60	56	1.11	3.92	49	0.5
YY11427		0.105	0.34	3.67	75	5.43	2.67	83	1.1
YY11428		0.060	0.18	3.67	51	0.96	3.10	61	<0.5
YY11429		0.044	0.22	3.60	41	0.96	3.62	54	<0.5
YY11430		0.065	0.16	1.84	54	2.81	2.34	56	0.7
YY11431		0.079	0.29	3.18	59	10.50	3.30	127	1.2
YY11432		0.064	0.19	3.36	51	9.40	3.31	114	0.6
YY11433		0.082	0.48	5.70	56	12.70	8.20	168	2.3
YY11434		0.092	0.17	3.40	70	5.02	5.98	66	4.8
YY11435		0.073	0.15	2.88	65	9.26	5.59	80	0.5
YY11436		0.114	0.20	2.63	68	0.30	7.24	95	4.4
YY11437		0.142	0.38	2.19	84	0.29	7.07	174	1.8
YY11438		0.148	0.28	1.30	71	0.41	14.20	138	3.4
YY11439		0.062	0.23	0.83	97	0.24	3.21	92	0.9
YY11440		0.101	0.47	1.37	137	0.20	4.27	181	0.7



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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
YY11441		0.50	0.001	0.19	2.28	57.2	<0.02	<10	210	0.57	0.29	0.11	0.37	25.7	6.9	47
YY11442		0.49	<0.001	0.13	3.05	23.1	<0.02	<10	200	0.86	16.10	0.63	0.25	32.2	7.8	27
YY11443		0.40	0.002	0.59	1.93	37.6	<0.02	<10	100	0.56	0.36	0.32	0.27	25.1	3.6	18
YY11444		0.53	0.003	1.81	3.72	35.9	<0.02	<10	130	2.31	1.07	0.80	1.54	39.9	8.7	21
YY11445		0.52	0.002	0.30	2.34	45.1	<0.02	<10	150	0.65	0.88	0.21	1.03	24.8	9.5	27
YY11446		0.55	0.005	0.69	1.88	92.9	<0.02	<10	120	0.57	0.72	0.20	0.98	24.7	6.2	17
YY11447		0.49	0.002	0.22	1.71	77.1	<0.02	<10	140	0.35	0.40	0.18	0.71	23.9	6.2	25
YY11448		0.56	0.003	0.08	1.85	14.2	<0.02	<10	200	0.52	0.31	0.29	0.10	36.1	9.7	30
YY11449		0.45	<0.001	0.24	2.73	13.9	<0.02	<10	160	0.55	0.28	0.14	0.58	23.3	12.0	34
YY11450		0.50	<0.001	0.27	2.72	14.0	<0.02	<10	120	0.72	0.88	0.14	0.49	27.7	9.5	30
YY11451		0.54	0.002	0.28	2.42	11.0	<0.02	<10	190	0.54	0.80	0.19	0.20	24.6	9.8	27
YY11452		0.49	<0.001	0.18	1.71	34.8	<0.02	<10	150	0.52	2.27	0.45	0.20	27.2	7.2	16
YY11453		0.48	0.002	0.22	1.95	70.3	<0.02	<10	110	0.69	6.89	0.42	0.26	26.6	7.5	18
YY11454		0.50	<0.001	0.21	2.57	40.4	<0.02	<10	130	1.06	2.34	0.73	0.34	30.7	8.6	19
YY11455		0.59	0.001	0.20	2.11	11.0	<0.02	<10	130	0.95	0.77	0.49	0.20	28.4	7.4	20
YY11456		0.43	<0.001	0.17	1.31	4.8	<0.02	<10	90	0.41	0.45	0.19	0.08	16.75	2.4	12
YY11457		0.47	<0.001	0.08	1.72	6.5	<0.02	<10	100	0.53	0.65	0.41	0.12	21.9	4.5	12
YY11458		0.43	0.002	0.06	2.17	8.0	<0.02	<10	120	0.60	1.31	0.41	0.13	28.9	5.9	19
YY11459		0.52	0.001	0.23	2.18	14.7	<0.02	<10	140	0.61	0.84	0.31	0.37	30.9	7.9	26
YY11460		0.56	0.003	0.32	2.18	47.8	<0.02	<10	150	0.80	0.79	0.32	0.85	35.9	8.3	26
YY11461		0.44	0.002	0.14	1.92	35.0	<0.02	<10	180	0.52	0.46	0.30	0.27	27.6	7.9	29
YY11462		0.50	0.005	0.25	2.13	36.0	<0.02	<10	140	0.48	0.48	0.28	0.40	26.0	12.7	31
YY11463		0.43	0.002	0.35	2.06	163.0	<0.02	<10	160	0.81	1.39	0.44	0.78	35.9	6.2	19
YY11464		0.46	0.004	0.81	2.22	91.5	<0.02	<10	230	0.78	2.13	0.56	0.47	32.3	9.0	30
YY11465		0.46	0.001	0.16	2.04	8.2	<0.02	<10	170	0.62	0.15	0.33	0.19	22.2	6.9	25
YY11466		0.38	<0.001	0.14	1.83	6.4	<0.02	<10	120	0.46	0.16	0.30	0.19	19.00	4.3	23
YY11467		0.48	0.001	0.29	1.89	9.9	<0.02	<10	170	0.44	3.25	0.38	0.21	22.4	6.1	21
YY11468		0.53	0.001	0.53	2.28	14.8	<0.02	<10	210	0.59	2.62	0.53	0.27	23.1	9.6	26
YY11469		0.43	0.002	0.45	2.11	8.1	<0.02	<10	210	0.49	1.12	0.46	0.15	21.7	6.4	24
YY11470		0.49	<0.001	0.21	2.10	8.8	<0.02	<10	200	0.61	0.70	0.41	0.21	23.3	8.1	26
YY11471		0.47	0.003	0.24	1.97	8.5	<0.02	<10	180	0.45	0.36	0.35	0.16	20.5	6.9	25
YY11472		0.42	0.001	0.24	2.02	10.9	<0.02	<10	190	0.42	0.44	0.39	0.18	21.0	9.6	24
YY11473		0.49	0.001	0.27	1.96	10.0	<0.02	<10	180	0.31	0.50	0.35	0.17	19.20	8.3	24
YY11474		0.44	0.003	0.29	2.16	9.2	<0.02	<10	230	0.44	0.38	0.33	0.18	20.6	8.5	27
YY11475		0.50	0.005	0.33	2.10	8.6	<0.02	<10	220	0.42	1.28	0.34	0.20	17.35	6.6	25
YY11476		0.42	0.001	0.29	1.85	10.3	<0.02	<10	190	0.41	0.36	0.38	0.17	20.1	5.7	23
YY11477		0.45	0.001	0.22	1.78	8.2	<0.02	<10	160	0.46	0.41	0.35	0.23	21.8	6.6	24
YY11478		0.38	0.001	0.28	1.96	8.7	<0.02	<10	180	0.50	0.57	0.42	0.19	22.2	6.2	25
YY11479		0.33	0.002	0.28	2.00	8.2	<0.02	<10	170	0.55	0.51	0.36	0.22	21.0	5.8	23
YY11480		0.44	0.001	0.25	2.17	10.8	<0.02	<10	150	0.50	0.65	0.33	0.25	19.90	8.3	24

***** See Appendix Page for comments regarding this certificate *****



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	
YY11441		2.40	33.1	3.33	8.29	<0.05	<0.02	0.02	0.039	0.07	12.9	18.5	0.50	282	2.25	<0.01
YY11442		4.27	17.0	3.08	8.47	<0.05	0.04	0.05	0.027	0.14	16.5	21.2	0.53	330	1.06	0.01
YY11443		1.97	12.9	2.13	6.56	<0.05	<0.02	0.06	0.032	0.03	14.6	9.7	0.31	107	0.84	0.01
YY11444		9.97	78.8	3.73	11.95	0.05	0.06	0.07	0.030	0.14	24.9	29.0	0.54	260	10.35	0.01
YY11445		1.82	27.7	3.06	6.32	<0.05	0.08	0.04	0.028	0.06	11.8	17.0	0.46	280	6.97	0.01
YY11446		2.52	25.5	2.83	8.95	0.05	<0.02	0.02	0.021	0.09	14.9	12.5	0.32	405	12.20	0.01
YY11447		1.49	24.2	2.50	6.79	0.05	0.02	0.02	0.024	0.04	13.2	11.2	0.36	233	14.30	0.01
YY11448		1.64	42.0	2.79	5.90	0.07	0.08	0.02	0.023	0.05	20.8	15.7	0.54	334	14.10	0.02
YY11449		2.80	29.9	3.28	6.94	<0.05	0.06	0.05	0.028	0.05	12.0	16.0	0.51	342	4.65	0.02
YY11450		4.22	36.8	3.54	9.30	0.05	0.08	0.04	0.034	0.06	16.3	20.7	0.50	249	6.10	0.01
YY11451		3.14	48.6	3.29	8.00	0.05	0.10	0.02	0.027	0.09	14.8	15.6	0.48	232	5.79	0.02
YY11452		2.46	29.5	3.01	8.14	0.06	<0.02	0.02	0.016	0.08	18.8	16.0	0.45	315	3.27	0.02
YY11453		3.14	44.1	3.25	7.83	0.05	<0.02	0.03	0.037	0.08	18.1	15.7	0.43	352	3.63	0.01
YY11454		4.78	34.4	3.25	9.55	0.06	0.02	0.03	0.028	0.12	22.2	22.9	0.48	459	4.65	0.01
YY11455		2.70	19.6	2.84	7.25	0.05	0.02	0.03	0.023	0.08	19.8	20.0	0.50	359	7.78	0.02
YY11456		1.71	19.1	1.49	5.21	<0.05	<0.02	0.04	0.012	0.04	11.4	5.3	0.18	73	7.44	0.02
YY11457		2.32	19.9	2.32	8.46	<0.05	<0.02	0.02	0.015	0.06	16.2	12.8	0.33	190	15.55	0.01
YY11458		2.64	21.7	2.75	8.65	0.05	<0.02	0.34	0.022	0.07	20.4	17.0	0.41	238	11.70	0.02
YY11459		2.49	30.8	2.88	7.42	0.05	0.02	0.03	0.027	0.06	18.7	18.0	0.52	291	10.10	0.02
YY11460		2.60	27.8	2.89	7.18	0.07	0.03	0.03	0.085	0.06	22.4	18.5	0.52	376	9.06	0.02
YY11461		1.05	24.7	2.78	6.22	0.06	0.02	0.03	0.028	0.04	15.6	12.8	0.49	340	4.35	0.02
YY11462		1.77	20.4	3.15	7.14	0.05	0.03	0.02	0.030	0.05	15.1	14.3	0.51	592	3.98	0.02
YY11463		4.55	39.7	2.55	8.11	0.12	0.02	0.03	0.034	0.10	23.8	26.4	0.50	272	9.37	0.02
YY11464		3.04	42.7	2.16	6.98	0.06	0.02	0.04	0.035	0.07	19.5	35.0	0.56	194	13.50	0.02
YY11465		1.56	15.2	2.23	7.05	0.05	<0.02	0.03	0.028	0.07	12.6	12.0	0.43	269	0.88	0.02
YY11466		1.80	12.1	1.90	7.32	0.05	<0.02	0.05	0.030	0.07	10.6	10.6	0.43	179	0.57	0.02
YY11467		2.63	21.7	2.49	7.08	0.05	<0.02	0.03	0.028	0.06	14.0	14.5	0.47	242	13.95	0.02
YY11468		2.86	24.8	3.19	7.92	0.05	0.02	0.05	0.037	0.09	14.0	17.6	0.55	528	16.15	0.02
YY11469		2.53	21.4	2.48	7.08	0.05	<0.02	0.05	0.028	0.07	12.4	14.4	0.51	280	9.31	0.02
YY11470		2.40	22.8	2.55	6.89	0.06	<0.02	0.04	0.029	0.06	13.5	15.6	0.52	359	8.51	0.02
YY11471		2.25	15.6	2.27	6.32	<0.05	<0.02	0.04	0.026	0.06	11.4	14.5	0.50	315	8.58	0.02
YY11472		2.40	12.9	2.42	6.54	0.05	<0.02	0.04	0.026	0.06	11.3	13.4	0.50	425	6.29	0.02
YY11473		1.91	12.2	2.22	5.93	0.05	<0.02	0.03	0.026	0.06	10.2	13.8	0.48	410	1.66	0.02
YY11474		2.01	15.6	2.33	6.49	0.05	<0.02	0.04	0.027	0.06	11.3	14.6	0.47	349	1.69	0.02
YY11475		2.02	15.5	2.24	6.27	<0.05	<0.02	0.05	0.022	0.07	8.7	12.6	0.44	300	1.22	0.02
YY11476		2.24	17.5	2.21	6.38	0.05	<0.02	0.03	0.025	0.06	10.7	12.2	0.44	203	1.03	0.02
YY11477		2.27	19.0	2.31	6.55	0.05	<0.02	0.03	0.023	0.06	11.4	12.3	0.48	267	1.08	0.02
YY11478		2.88	19.8	2.41	6.48	0.05	<0.02	0.03	0.024	0.06	11.9	12.4	0.49	266	1.08	0.02
YY11479		3.20	17.0	2.34	7.19	0.05	<0.02	0.02	0.029	0.06	11.3	13.0	0.47	231	1.02	0.02
YY11480		2.95	20.5	2.76	7.35	0.05	0.03	0.04	0.032	0.06	10.5	14.3	0.46	274	1.26	0.02



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	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units LOD	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY11441		1.56	24.9	520	84.0	13.5	<0.001	0.02	0.89	4.4	0.7	0.6	24.1	<0.01	0.06	2.1
YY11442		2.46	17.0	690	29.0	17.6	<0.001	0.01	0.52	4.1	0.3	0.5	127.5	0.01	0.03	5.9
YY11443		0.63	8.6	950	125.0	5.3	<0.001	0.02	0.54	1.0	0.4	0.5	47.0	<0.01	0.02	0.2
YY11444		2.33	15.0	900	353	36.5	<0.001	0.01	3.04	4.9	0.4	0.6	119.0	<0.01	0.05	12.9
YY11445		1.48	19.5	320	42.3	15.3	<0.001	<0.01	0.62	3.6	0.3	0.5	43.2	<0.01	0.03	8.0
YY11446		1.41	7.6	810	40.3	27.4	0.001	0.02	0.73	2.2	0.4	0.6	79.8	<0.01	0.04	5.0
YY11447		1.21	12.6	460	60.8	11.7	<0.001	0.01	0.60	3.0	0.4	0.5	26.5	<0.01	0.04	3.3
YY11448		0.66	19.7	430	17.9	11.3	0.001	0.01	0.50	5.2	0.3	0.5	35.4	<0.01	0.04	6.4
YY11449		1.69	25.9	390	14.9	14.7	<0.001	0.02	0.55	3.8	0.6	0.6	23.1	0.01	0.04	4.1
YY11450		1.65	18.7	340	27.4	15.8	0.001	0.02	0.64	4.1	0.6	0.8	26.3	<0.01	0.06	10.0
YY11451		1.99	18.7	300	15.5	17.9	0.001	0.04	0.62	3.8	0.8	0.8	42.7	0.01	0.07	11.5
YY11452		1.09	8.0	1070	20.0	14.0	<0.001	0.02	0.36	1.9	0.3	0.6	105.5	<0.01	0.06	6.3
YY11453		1.25	10.3	980	109.5	12.8	<0.001	0.03	0.55	2.0	0.4	0.5	90.8	0.01	0.05	5.0
YY11454		1.28	11.1	1100	46.6	19.8	<0.001	0.02	0.37	2.3	0.3	0.5	129.5	<0.01	0.07	7.1
YY11455		1.32	12.0	890	28.3	15.6	<0.001	0.01	0.33	2.7	0.3	0.5	89.4	<0.01	0.08	12.3
YY11456		0.26	4.8	660	14.5	8.6	<0.001	0.05	0.16	0.3	0.5	0.3	55.8	<0.01	0.05	<0.2
YY11457		1.31	5.4	680	16.7	12.4	<0.001	0.02	0.23	1.5	0.2	0.5	109.5	<0.01	0.05	3.8
YY11458		1.35	9.5	770	21.8	14.3	<0.001	0.02	0.31	2.1	0.3	0.6	84.3	<0.01	0.04	3.2
YY11459		1.17	15.4	650	31.7	14.0	<0.001	0.02	0.43	2.9	0.4	0.6	58.4	<0.01	0.08	3.8
YY11460		1.14	14.8	680	124.5	14.1	<0.001	0.02	0.60	3.4	0.6	0.5	66.2	<0.01	0.07	5.9
YY11461		1.10	17.7	580	44.1	8.6	<0.001	0.02	0.60	3.2	0.3	0.5	42.8	<0.01	0.03	2.7
YY11462		1.44	17.7	600	44.4	9.5	<0.001	0.01	0.54	3.3	0.2	0.6	36.8	<0.01	0.02	4.2
YY11463		1.34	12.4	720	105.5	18.7	<0.001	0.04	0.79	3.5	0.7	0.5	58.0	<0.01	0.03	6.4
YY11464		1.15	22.4	810	77.5	13.9	0.002	0.12	0.67	3.2	1.1	0.5	55.7	<0.01	0.03	1.8
YY11465		1.01	16.7	620	12.6	11.1	<0.001	0.04	0.29	2.5	0.5	0.5	35.2	<0.01	0.02	0.6
YY11466		1.45	13.8	380	28.3	12.1	<0.001	0.03	0.21	2.8	0.2	0.6	34.3	0.01	0.02	0.8
YY11467		1.14	12.0	620	27.0	13.4	<0.001	0.04	0.25	2.9	0.3	0.7	53.3	<0.01	0.04	1.9
YY11468		1.20	14.6	710	69.8	17.5	<0.001	0.03	0.68	3.4	0.3	0.8	67.9	<0.01	0.05	3.6
YY11469		1.07	14.6	670	21.4	15.6	<0.001	0.05	0.28	3.1	0.4	0.7	50.0	<0.01	0.04	1.2
YY11470		1.12	15.7	660	20.1	14.4	<0.001	0.04	0.28	3.4	0.2	0.6	45.3	<0.01	0.03	1.8
YY11471		0.98	14.4	620	15.4	12.4	<0.001	0.04	0.25	3.0	0.2	0.6	34.1	<0.01	0.03	1.1
YY11472		1.02	14.3	670	21.5	12.2	<0.001	0.04	0.27	3.1	0.2	0.6	39.0	<0.01	0.02	0.9
YY11473		0.95	15.1	570	22.7	9.4	<0.001	0.03	0.25	2.9	0.3	0.5	34.1	<0.01	0.01	1.1
YY11474		0.98	16.8	660	27.3	10.6	<0.001	0.04	0.27	3.3	0.4	0.5	32.9	<0.01	0.02	1.1
YY11475		0.95	15.9	670	28.1	10.5	<0.001	0.04	0.28	2.6	<0.2	0.5	34.0	<0.01	0.02	0.8
YY11476		1.08	15.5	560	45.2	10.3	<0.001	0.03	0.31	2.7	0.2	0.6	37.6	<0.01	0.02	0.9
YY11477		1.19	16.0	580	66.1	10.0	<0.001	0.03	0.33	2.8	0.3	0.6	35.2	<0.01	0.02	1.4
YY11478		1.05	15.5	750	89.5	9.8	<0.001	0.04	0.32	2.8	0.2	0.6	38.8	<0.01	0.02	1.1
YY11479		1.36	14.4	510	77.5	10.3	0.001	0.02	0.32	3.2	0.3	0.6	36.8	<0.01	0.02	1.8
YY11480		1.54	17.5	430	24.8	9.2	<0.001	0.04	0.43	3.0	0.3	0.6	39.8	<0.01	0.03	1.7



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY11441		0.078	0.25	1.17	115	0.22	3.99	110	0.7
YY11442		0.100	0.22	1.25	66	0.23	5.31	57	1.4
YY11443		0.035	0.13	1.43	46	0.38	3.61	56	<0.5
YY11444		0.099	0.39	5.12	66	1.82	6.23	136	1.9
YY11445		0.074	0.18	1.92	61	1.79	3.43	94	3.8
YY11446		0.059	0.24	2.15	62	4.44	2.95	95	0.6
YY11447		0.074	0.14	1.53	59	3.46	3.23	81	0.9
YY11448		0.086	0.15	3.30	58	4.95	8.48	58	4.1
YY11449		0.087	0.15	1.06	68	6.45	3.29	68	2.8
YY11450		0.088	0.25	1.88	74	1.87	3.77	71	3.8
YY11451		0.097	0.24	2.08	69	11.75	3.07	50	4.4
YY11452		0.083	0.15	3.20	68	5.68	3.47	64	0.5
YY11453		0.073	0.15	2.57	68	6.39	3.28	82	0.6
YY11454		0.080	0.20	3.32	69	3.54	3.76	92	0.6
YY11455		0.074	0.20	3.69	60	5.94	3.57	73	0.8
YY11456		0.015	0.11	4.76	29	2.52	2.04	26	<0.5
YY11457		0.068	0.19	1.88	57	3.83	2.58	38	0.5
YY11458		0.080	0.19	2.84	61	1.85	3.85	50	0.7
YY11459		0.079	0.17	2.17	61	3.85	3.87	80	0.6
YY11460		0.073	0.18	2.17	58	2.77	4.65	185	1.1
YY11461		0.074	0.08	2.13	62	0.83	5.30	75	0.9
YY11462		0.080	0.11	1.61	70	1.62	3.62	82	1.3
YY11463		0.081	0.21	5.89	49	7.43	6.13	155	0.8
YY11464		0.071	0.24	5.87	52	1.93	8.01	155	0.5
YY11465		0.058	0.09	1.07	46	0.28	4.99	60	<0.5
YY11466		0.070	0.12	0.85	37	0.27	3.71	59	<0.5
YY11467		0.072	0.15	1.67	52	1.98	3.91	66	0.6
YY11468		0.078	0.15	1.82	64	1.91	4.26	84	0.7
YY11469		0.068	0.16	1.71	54	1.01	4.56	61	0.6
YY11470		0.070	0.14	1.62	55	0.92	4.61	61	0.6
YY11471		0.068	0.12	1.19	52	0.46	3.99	58	0.5
YY11472		0.065	0.13	0.84	57	0.31	4.08	60	0.5
YY11473		0.061	0.11	0.67	51	0.30	3.61	59	0.5
YY11474		0.063	0.12	0.87	52	0.37	4.11	63	0.6
YY11475		0.061	0.10	0.76	51	0.48	3.66	65	0.5
YY11476		0.069	0.12	0.71	52	0.47	4.23	58	0.6
YY11477		0.074	0.08	0.68	55	0.38	4.22	66	0.8
YY11478		0.071	0.11	0.84	58	0.55	4.88	71	0.6
YY11479		0.081	0.12	0.68	57	0.51	4.26	68	0.8
YY11480		0.078	0.10	0.62	61	3.94	3.40	54	1.0



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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY11481		0.44	0.001	0.12	2.74	12.6	<0.02	<10	240	0.67	0.28	0.46	0.25	25.4	10.3	29
YY11482		0.45	0.002	0.46	1.89	17.9	<0.02	<10	210	0.53	0.59	0.49	0.22	25.9	7.3	22
YY11483		0.46	0.001	0.37	1.89	15.7	<0.02	<10	200	0.62	0.61	0.59	0.21	30.7	4.6	21
YY11484		0.37	0.002	0.50	1.63	17.9	0.03	<10	180	0.47	0.65	0.53	0.12	30.9	4.9	18
YY11485		0.45	0.003	0.59	1.88	11.8	<0.02	<10	210	0.41	0.88	0.50	0.22	26.2	6.5	22
YY11486		0.41	0.002	0.90	1.82	11.8	<0.02	<10	270	0.59	0.90	0.68	0.35	39.9	16.8	20
YY11487		0.43	0.001	0.66	1.93	9.7	<0.02	<10	230	0.44	0.73	0.43	0.17	24.6	5.9	22
YY11488		0.43	0.003	0.52	2.21	13.9	<0.02	<10	250	0.49	0.77	0.39	0.20	21.8	7.6	27
YY11489		0.44	0.001	0.40	1.90	8.5	<0.02	<10	220	0.41	0.59	0.42	0.19	18.10	6.8	23
YY11490		0.37	0.002	0.61	2.14	11.3	<0.02	<10	280	0.56	1.10	0.59	0.48	20.4	7.2	25
YY11491		0.37	0.003	0.29	2.03	9.4	<0.02	<10	260	0.57	1.47	0.64	0.43	20.9	7.5	23
YY11492		0.42	0.001	0.22	1.95	7.9	<0.02	<10	180	0.51	2.26	0.43	0.32	18.45	6.8	24
YY11493		0.39	<0.001	0.44	2.02	6.4	<0.02	<10	170	0.51	0.25	0.22	0.63	19.45	6.1	22
YY11494		0.33	<0.001	0.13	2.50	9.2	<0.02	<10	200	0.76	0.24	0.40	0.96	23.7	9.2	29
YY11495		0.37	<0.001	0.14	1.90	7.7	<0.02	<10	240	0.44	0.29	0.41	0.46	15.25	5.8	21
YY11496		0.46	<0.001	0.09	2.13	6.4	<0.02	<10	170	0.43	0.39	0.36	0.26	16.70	8.4	60
YY11497		0.44	0.001	0.47	3.07	14.5	<0.02	<10	100	0.68	0.69	0.31	0.64	21.8	14.8	68
YY11498		0.56	0.002	0.10	2.45	8.7	<0.02	<10	200	0.67	0.21	0.55	0.23	24.1	14.2	92
YY11500		0.48	0.003	0.09	2.65	8.8	<0.02	<10	190	0.63	0.22	0.59	0.18	20.3	11.9	35



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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
LOD		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY11481		4.23	23.2	2.99	7.58	0.05	0.04	0.05	0.029	0.07	12.2	16.9	0.56	337	1.18	0.02
YY11482		2.55	35.0	2.47	6.31	0.05	<0.02	0.05	0.026	0.04	15.7	12.4	0.41	405	8.67	0.02
YY11483		2.70	37.2	2.26	6.36	0.05	<0.02	0.04	0.025	0.05	18.8	12.2	0.42	184	7.31	0.02
YY11484		2.53	37.8	2.24	5.69	0.07	<0.02	0.04	0.025	0.05	18.4	12.0	0.39	232	15.65	0.02
YY11485		2.60	37.4	2.27	6.31	0.05	<0.02	0.06	0.029	0.05	15.2	14.3	0.46	436	16.45	0.02
YY11486		2.52	44.6	2.50	5.98	0.06	<0.02	0.07	0.032	0.05	20.8	13.0	0.42	1040	25.5	0.02
YY11487		2.99	39.5	2.21	5.94	0.05	<0.02	0.06	0.028	0.05	13.5	12.7	0.43	233	10.55	0.02
YY11488		2.83	30.4	3.00	7.12	0.05	<0.02	0.05	0.030	0.06	11.5	14.3	0.49	307	7.11	0.02
YY11489		2.15	17.9	2.17	5.81	0.05	<0.02	0.04	0.030	0.05	8.7	12.1	0.45	331	2.79	0.02
YY11490		2.10	20.5	2.41	6.25	0.05	0.02	0.07	0.030	0.07	10.8	13.4	0.47	462	3.04	0.02
YY11491		2.57	17.7	2.39	6.21	0.05	0.02	0.05	0.029	0.06	11.2	12.8	0.47	475	2.16	0.02
YY11492		3.04	18.4	2.47	6.28	0.05	0.03	0.05	0.023	0.06	9.1	13.5	0.54	265	1.27	0.02
YY11493		2.72	15.9	2.35	7.02	<0.05	0.03	0.04	0.020	0.04	9.8	9.7	0.30	207	1.66	0.01
YY11494		2.77	17.8	2.75	7.26	<0.05	0.03	0.04	0.035	0.05	11.4	15.1	0.48	409	2.32	0.02
YY11495		3.19	11.9	2.57	7.75	<0.05	<0.02	0.06	0.029	0.04	7.0	12.1	0.39	275	2.24	0.02
YY11496		4.73	17.4	2.78	8.37	0.08	0.03	0.04	0.021	0.26	7.6	17.6	0.91	245	0.79	0.02
YY11497		7.99	33.0	3.03	10.25	<0.05	0.04	0.06	0.021	0.13	10.3	24.4	0.84	282	1.07	0.02
YY11498		5.75	31.3	2.88	8.28	0.10	0.04	0.01	0.022	0.18	12.2	29.0	1.09	327	0.74	0.02
YY11500		4.91	40.0	2.96	8.11	0.07	0.03	0.03	0.019	0.13	11.8	20.1	0.82	192	0.65	0.03



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Sample Description	Method Analyte Units LOD	ME-MS41 Nb ppm 0.05	ME-MS41 Ni ppm 0.2	ME-MS41 P ppm 10	ME-MS41 Pb ppm 0.2	ME-MS41 Rb ppm 0.1	ME-MS41 Re ppm 0.001	ME-MS41 S % 0.01	ME-MS41 Sb ppm 0.05	ME-MS41 Sc ppm 0.1	ME-MS41 Se ppm 0.2	ME-MS41 Sn ppm 0.2	ME-MS41 Sr ppm 0.2	ME-MS41 Ta ppm 0.01	ME-MS41 Te ppm 0.01	ME-MS41 Th ppm 0.2
YY11481		1.68	23.4	560	20.8	9.2	<0.001	0.03	0.43	4.0	0.2	0.6	46.3	<0.01	0.04	2.9
YY11482		1.06	11.5	750	35.9	10.4	<0.001	0.04	0.46	3.7	0.2	0.5	72.2	<0.01	0.02	3.4
YY11483		1.04	10.0	870	33.2	11.0	<0.001	0.04	0.40	3.6	0.4	0.5	84.0	<0.01	0.03	4.7
YY11484		0.89	9.3	930	30.0	10.9	<0.001	0.05	0.32	3.0	0.2	0.4	65.9	<0.01	0.02	2.6
YY11485		0.89	10.6	850	33.6	10.7	<0.001	0.06	0.30	3.0	0.3	0.5	62.2	<0.01	0.03	2.1
YY11486		0.86	11.9	960	38.8	12.0	<0.001	0.08	0.43	3.4	0.5	0.5	77.0	<0.01	0.03	1.3
YY11487		0.88	11.3	790	39.6	9.7	<0.001	0.06	0.30	2.9	0.3	0.5	56.7	<0.01	0.02	1.2
YY11488		1.06	16.1	720	59.6	11.2	<0.001	0.05	0.37	3.7	0.3	0.6	42.6	<0.01	0.03	1.2
YY11489		0.93	14.1	640	54.1	9.5	<0.001	0.04	0.29	3.3	0.3	0.5	37.5	<0.01	0.02	1.0
YY11490		0.95	15.4	810	72.7	11.3	<0.001	0.06	0.45	3.5	0.5	0.5	49.3	<0.01	0.03	0.8
YY11491		1.02	14.4	750	89.5	9.4	<0.001	0.05	0.32	3.3	0.4	0.5	48.2	<0.01	0.03	0.7
YY11492		1.29	14.7	510	79.4	8.5	<0.001	0.02	0.31	3.6	<0.2	0.5	41.5	<0.01	0.05	1.6
YY11493		1.47	10.7	250	98.7	7.3	<0.001	0.02	0.33	3.1	0.3	0.7	25.6	<0.01	0.03	1.8
YY11494		1.52	16.9	490	81.5	7.7	<0.001	0.03	0.34	4.3	0.3	0.6	36.2	<0.01	0.02	2.2
YY11495		1.20	13.7	350	77.9	7.9	<0.001	0.04	0.33	2.2	<0.2	0.7	41.5	<0.01	0.03	0.6
YY11496		2.88	29.9	510	29.8	26.0	<0.001	0.04	0.27	4.7	0.4	0.6	57.1	0.01	0.03	1.9
YY11497		2.86	49.0	380	55.2	15.6	<0.001	0.04	0.83	5.0	0.4	0.6	54.3	0.01	0.06	2.6
YY11498		2.06	83.0	810	19.3	21.8	<0.001	0.02	0.42	4.6	0.3	0.5	60.5	0.01	0.02	3.0
YY11500		1.55	26.9	1100	29.9	15.7	<0.001	0.02	0.32	4.2	0.2	0.4	42.1	0.01	0.03	2.5



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY11481		0.092	0.11	0.64	66	0.52	4.51	61	1.7
YY11482		0.058	0.17	2.15	54	0.74	5.09	61	0.6
YY11483		0.064	0.18	2.45	48	0.94	5.59	59	0.6
YY11484		0.053	0.16	2.52	50	1.03	5.54	52	<0.5
YY11485		0.053	0.18	2.15	54	0.94	4.72	62	0.5
YY11486		0.043	0.18	3.05	49	1.34	8.76	64	0.5
YY11487		0.050	0.16	1.85	48	0.71	4.63	64	0.5
YY11488		0.059	0.14	1.11	63	0.41	4.67	79	0.7
YY11489		0.061	0.11	0.73	47	0.25	4.04	76	0.6
YY11490		0.057	0.11	0.97	52	0.27	5.91	100	0.8
YY11491		0.070	0.11	0.80	55	0.41	5.82	97	0.8
YY11492		0.089	0.10	0.62	58	0.33	4.14	98	1.1
YY11493		0.074	0.13	0.63	57	0.24	2.93	72	1.4
YY11494		0.076	0.11	0.82	65	0.34	4.82	101	1.3
YY11495		0.063	0.10	0.41	65	0.26	2.19	96	0.6
YY11496		0.196	0.18	0.44	83	0.30	3.11	53	1.4
YY11497		0.173	0.25	0.60	87	0.52	3.36	78	1.5
YY11498		0.189	0.19	0.64	80	0.32	4.81	59	1.8
YY11500		0.153	0.16	0.70	93	0.44	4.01	50	1.4



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	CERTIFICATE COMMENTS
	<p style="text-align: center;">ANALYTICAL COMMENTS</p> <p>Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g). ME-MS41</p> <p style="text-align: center;">LABORATORY ADDRESSES</p> <p>Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada. LOG-22 SCR-41 WEI-21</p> <p>Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. Au-ICP21 ME-MS41</p>



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CERTIFICATE WH19198404

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This report is for 200 Soil samples submitted to our lab in Whitehorse, YT, Canada on 12-AUG-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	JULIA LANE	
--------------	------------	--

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	Ultra Trace Aqua Regia ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
YY18001		0.35	0.003	0.33	2.05	183.5	<0.02	<10	100	0.83	0.72	0.18	0.62	38.6	11.2	27
YY18002		0.46	0.001	0.14	2.00	58.4	<0.02	<10	130	0.79	0.22	0.30	0.36	34.3	8.5	28
YY18003		0.43	0.007	0.09	2.38	22.3	<0.02	<10	130	1.46	0.27	0.42	0.35	37.3	8.9	26
YY18004		0.45	0.003	0.16	2.49	41.7	<0.02	<10	120	1.94	0.47	0.45	0.71	50.6	8.7	22
YY18005		0.51	<0.001	0.10	3.48	25.2	<0.02	<10	100	2.08	0.29	1.32	0.32	76.8	5.8	17
YY18006		0.32	0.003	0.17	1.83	27.7	<0.02	<10	120	0.59	0.40	0.18	0.23	29.3	5.5	24
YY18007		0.36	0.002	0.21	2.36	87.4	<0.02	<10	280	1.35	0.69	0.34	0.86	56.5	9.6	27
YY18008		0.45	0.003	0.31	2.13	121.5	<0.02	<10	190	0.96	0.72	0.30	0.55	43.1	7.5	26
YY18009		0.43	0.002	0.25	2.16	107.5	<0.02	<10	160	1.00	0.47	0.20	0.49	44.0	9.5	28
YY18010		0.27	0.001	0.31	1.86	57.8	<0.02	<10	140	0.89	0.35	0.29	0.42	31.7	6.9	25
YY18011		0.28	0.001	0.30	1.78	34.0	<0.02	<10	120	0.65	0.26	0.16	0.26	25.0	6.4	25
YY18012		0.31	0.003	0.52	2.15	74.5	<0.02	<10	160	1.19	0.27	0.25	0.30	35.8	11.5	31
YY18013		0.33	0.002	0.21	1.82	37.3	<0.02	<10	190	0.99	0.20	0.31	0.30	48.9	9.8	32
YY18014		0.38	0.001	0.19	2.13	7.4	<0.02	<10	180	0.71	0.25	0.32	0.16	33.0	14.7	31
YY18015		0.40	0.001	0.20	1.79	9.2	<0.02	<10	100	0.57	0.22	0.26	0.20	24.1	6.6	24
YY18016		0.35	0.003	0.11	2.75	11.9	<0.02	<10	200	1.11	0.26	0.31	0.21	55.1	11.6	38
YY18017		0.47	0.004	0.07	2.15	9.0	<0.02	<10	160	0.72	0.22	0.28	0.22	37.9	11.0	30
YY18018		0.36	0.002	0.09	2.39	9.6	<0.02	<10	280	0.87	0.29	0.26	0.22	38.4	12.6	34
YY18019		0.42	0.002	0.07	1.62	7.3	<0.02	<10	100	0.64	0.24	0.26	0.24	29.2	7.8	26
YY18020		0.37	0.001	0.09	1.85	5.6	<0.02	<10	170	0.69	0.20	0.34	0.24	33.4	10.7	28
YY18021		0.46	0.002	0.15	2.30	9.1	<0.02	<10	160	0.76	0.23	0.25	0.20	31.0	10.8	32
YY18022		0.34	0.003	0.15	2.56	10.5	<0.02	<10	190	0.88	0.27	0.25	0.15	36.6	11.4	36
YY18023		0.34	0.002	0.08	1.96	8.3	<0.02	<10	150	0.63	0.29	0.25	0.19	32.6	9.0	32
YY18024		0.32	0.001	0.07	2.23	7.4	<0.02	<10	150	0.75	0.20	0.28	0.16	35.4	11.1	36
YY18025		0.35	0.004	0.07	1.87	7.9	<0.02	<10	180	0.66	0.20	0.28	0.22	31.4	9.4	31
YY18026		0.41	0.003	0.11	2.17	9.6	<0.02	<10	180	0.90	0.23	0.30	0.21	33.5	11.7	33
YY18027		0.31	<0.001	0.08	2.08	8.4	<0.02	<10	160	0.64	0.24	0.15	0.15	22.3	9.5	27
YY18028		0.28	<0.001	0.05	1.00	3.7	<0.02	<10	40	0.17	0.11	0.10	0.10	8.38	1.9	9
YY18029		0.28	0.003	0.05	1.53	6.7	<0.02	<10	120	0.44	0.15	0.32	0.26	27.3	8.7	28
YY18030		0.42	0.005	0.07	2.25	7.7	<0.02	<10	230	0.79	0.19	0.25	0.24	31.1	10.7	32
YY18031		0.28	0.002	0.39	2.25	15.8	<0.02	<10	220	0.82	0.26	0.28	0.33	26.8	9.9	36
YY18032		0.47	0.002	0.21	2.09	6.1	<0.02	<10	300	0.66	0.47	0.28	0.21	31.2	8.3	35
YY18033		0.33	0.002	0.07	2.35	9.0	<0.02	<10	180	0.83	0.23	0.23	0.26	31.1	9.7	32
YY18034		0.39	0.001	0.11	2.09	8.8	<0.02	<10	160	0.83	0.24	0.32	0.21	33.4	9.7	34
YY18035		0.23	<0.001	0.17	1.32	22.6	<0.02	<10	100	0.42	0.22	0.10	0.21	17.70	3.8	17
YY18036		0.29	0.002	0.40	2.28	77.7	<0.02	<10	170	0.91	0.51	0.19	0.24	31.2	7.6	30
YY18037		0.31	0.002	0.43	2.41	91.5	<0.02	<10	200	1.05	0.59	0.21	0.30	34.7	8.0	31
YY18038		0.42	0.002	0.14	1.95	103.5	<0.02	<10	110	0.97	0.66	0.25	0.28	37.7	8.6	25
YY18039		0.26	<0.001	0.15	1.80	87.8	<0.02	<10	120	0.86	0.45	0.22	0.35	37.6	9.9	21
YY18040		0.23	<0.001	0.20	1.57	38.9	<0.02	<10	140	0.70	0.26	0.13	0.25	21.9	5.9	17



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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
	Analyte Units LOD	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY18001		2.06	28.2	2.97	6.46	0.05	0.03	0.04	0.055	0.10	17.9	18.7	0.50	586	1.41	0.02
YY18002		2.07	21.3	2.64	6.23	0.07	0.03	0.03	0.029	0.10	16.9	14.7	0.49	279	0.92	0.02
YY18003		3.30	20.5	2.79	7.48	0.06	0.04	0.03	0.033	0.17	18.5	21.9	0.64	278	0.93	0.01
YY18004		5.25	13.5	2.90	9.57	0.08	0.03	0.04	0.064	0.25	26.5	32.3	0.75	397	0.69	0.01
YY18005		8.48	12.1	2.65	12.95	0.09	0.03	0.02	0.042	0.28	32.3	23.5	0.55	378	0.53	0.01
YY18006		2.01	13.9	2.98	10.55	0.05	0.03	0.02	0.038	0.10	15.3	15.2	0.41	231	1.43	0.01
YY18007		3.38	27.3	3.13	9.52	0.09	0.02	0.02	0.064	0.17	28.0	22.5	0.61	433	0.93	0.01
YY18008		2.39	24.3	3.06	9.76	0.06	0.02	0.03	0.048	0.16	21.6	17.7	0.55	309	1.19	0.01
YY18009		2.37	23.0	3.09	8.66	0.07	0.02	0.02	0.041	0.15	21.4	21.9	0.63	371	1.04	0.01
YY18010		2.03	20.1	2.61	8.19	0.05	<0.02	0.03	0.035	0.11	15.3	14.9	0.45	341	1.04	0.01
YY18011		1.61	15.7	2.43	7.20	<0.05	<0.02	0.03	0.027	0.07	12.5	13.5	0.42	310	1.08	0.01
YY18012		1.96	17.7	3.02	7.89	0.05	0.02	0.05	0.037	0.09	15.2	19.5	0.48	728	1.61	0.02
YY18013		1.47	20.1	2.54	6.66	0.10	0.03	0.05	0.029	0.09	29.4	21.2	0.51	438	0.96	0.01
YY18014		2.20	14.4	2.91	7.91	0.06	0.03	0.03	0.033	0.13	16.6	21.4	0.69	444	2.60	0.02
YY18015		2.24	12.3	2.34	8.18	<0.05	0.03	0.04	0.030	0.12	11.8	13.1	0.40	270	0.86	0.02
YY18016		2.03	24.3	3.65	8.98	0.09	0.05	0.06	0.043	0.13	27.9	20.3	0.69	377	0.93	0.02
YY18017		1.55	21.5	3.09	7.53	0.06	0.05	0.04	0.036	0.13	18.6	17.6	0.57	398	0.89	0.02
YY18018		2.22	31.6	3.53	9.00	0.07	0.04	0.03	0.040	0.19	19.0	21.0	0.70	413	1.03	0.01
YY18019		1.36	13.1	2.39	6.29	0.05	0.02	0.03	0.023	0.11	14.4	15.4	0.52	307	0.77	0.01
YY18020		1.90	21.6	2.55	6.72	0.06	0.06	0.02	0.031	0.17	16.5	17.4	0.63	345	0.75	0.02
YY18021		1.78	23.3	3.00	7.24	0.06	0.03	0.04	0.033	0.12	15.7	17.8	0.59	371	1.00	0.01
YY18022		2.22	30.6	3.34	8.19	0.06	0.10	0.04	0.035	0.12	17.9	19.5	0.66	358	1.00	0.01
YY18023		1.72	19.9	2.91	7.43	0.06	0.03	0.01	0.028	0.12	15.6	16.0	0.61	328	0.83	0.01
YY18024		2.72	20.4	3.39	9.35	0.06	0.03	0.03	0.043	0.29	17.0	22.0	0.79	362	0.84	0.01
YY18025		1.43	20.2	2.86	6.98	0.06	0.02	0.02	0.032	0.12	15.3	16.1	0.59	388	0.89	0.02
YY18026		1.83	22.5	3.19	7.84	0.05	0.03	0.04	0.034	0.12	15.8	22.2	0.64	491	1.11	0.02
YY18027		1.70	17.6	2.67	7.66	<0.05	0.02	0.03	0.026	0.07	11.3	15.2	0.48	452	1.15	0.02
YY18028		0.62	8.8	1.17	4.71	<0.05	<0.02	0.05	0.012	0.03	4.3	3.3	0.09	62	0.77	0.02
YY18029		1.12	18.5	2.56	5.56	0.05	0.04	0.03	0.024	0.10	13.5	12.0	0.50	307	0.74	0.02
YY18030		1.88	19.9	3.16	7.85	0.06	0.04	0.03	0.030	0.15	15.2	19.3	0.66	426	1.00	0.01
YY18031		1.91	19.5	2.95	7.72	0.05	0.02	0.06	0.035	0.12	13.2	17.0	0.59	378	1.03	0.02
YY18032		1.81	31.6	2.69	7.31	0.06	0.03	0.04	0.033	0.18	15.9	17.0	0.69	200	0.63	0.02
YY18033		1.56	16.1	3.07	7.61	0.05	0.03	0.03	0.034	0.11	15.5	18.2	0.58	383	0.80	0.01
YY18034		1.86	18.9	3.06	8.03	0.06	0.03	0.03	0.035	0.15	16.6	19.0	0.64	364	0.87	0.01
YY18035		1.20	11.8	1.79	5.67	<0.05	0.02	0.04	0.020	0.05	8.9	8.7	0.25	132	0.85	0.02
YY18036		2.18	23.9	3.01	8.91	0.05	0.02	0.05	0.034	0.10	15.4	18.1	0.53	294	1.48	0.01
YY18037		2.43	23.3	3.05	9.24	0.06	0.02	0.06	0.039	0.12	17.4	19.3	0.56	293	1.32	0.02
YY18038		2.42	20.2	2.74	7.84	0.06	<0.02	0.02	0.031	0.13	17.9	21.7	0.55	388	0.91	0.01
YY18039		2.66	18.5	2.35	8.58	0.07	0.02	0.02	0.029	0.12	17.5	16.2	0.42	423	1.02	0.01
YY18040		1.59	13.8	1.94	6.51	<0.05	<0.02	0.04	0.020	0.06	10.2	9.9	0.28	275	0.76	0.02

***** See Appendix Page for comments regarding this certificate *****



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
YY18001		2.15	22.8	480	241	17.2	<0.001	0.02	1.55	3.4	0.3	1.0	16.2	<0.01	0.02	5.7
YY18002		1.69	20.3	810	28.7	14.7	<0.001	0.02	0.70	3.6	0.3	0.8	21.5	<0.01	0.02	3.0
YY18003		2.17	21.4	860	46.1	23.4	<0.001	0.02	0.65	4.0	<0.2	2.0	28.7	0.01	0.03	8.9
YY18004		2.80	14.5	940	190.0	35.1	<0.001	0.02	0.57	4.3	0.3	2.9	30.3	0.01	0.02	13.6
YY18005		2.15	10.7	1140	66.3	36.1	<0.001	0.02	0.83	4.9	<0.2	3.3	93.6	0.01	0.03	21.0
YY18006		2.49	15.3	380	54.1	18.3	<0.001	0.03	0.53	3.2	0.2	1.6	19.5	<0.01	0.04	3.8
YY18007		2.32	19.6	810	83.0	27.1	<0.001	0.02	0.82	4.9	<0.2	2.0	30.4	<0.01	0.04	11.4
YY18008		1.89	17.1	760	70.4	24.3	<0.001	0.03	0.88	3.4	0.4	2.0	28.7	<0.01	0.05	2.9
YY18009		2.10	19.6	740	63.5	24.9	<0.001	0.02	0.76	4.3	<0.2	1.8	26.1	<0.01	0.04	5.8
YY18010		1.14	16.0	790	44.0	23.1	<0.001	0.04	0.66	2.1	0.2	1.3	21.2	<0.01	0.04	0.8
YY18011		1.04	14.2	640	44.7	14.9	<0.001	0.04	0.48	1.8	0.2	0.9	16.4	<0.01	0.04	0.6
YY18012		1.26	15.4	900	48.4	17.2	<0.001	0.07	0.55	2.3	0.2	1.4	24.7	<0.01	0.03	0.8
YY18013		1.37	20.5	840	23.7	15.0	<0.001	0.04	0.50	3.9	0.4	0.9	26.9	<0.01	0.02	2.2
YY18014		2.10	18.2	770	24.4	24.3	0.001	0.03	0.40	4.7	0.2	1.1	23.8	<0.01	0.03	5.6
YY18015		2.58	11.1	580	27.3	21.1	<0.001	0.04	0.64	3.0	0.3	1.4	18.2	0.01	0.04	2.6
YY18016		2.81	23.7	650	16.2	25.5	<0.001	0.02	0.53	7.2	0.3	1.3	24.6	0.01	0.05	7.3
YY18017		2.82	22.2	700	11.8	22.0	<0.001	0.03	0.49	4.7	0.3	1.2	19.0	0.01	0.03	5.1
YY18018		2.93	22.8	800	15.8	28.6	<0.001	0.02	0.45	6.0	0.4	1.5	20.7	<0.01	0.05	6.2
YY18019		1.55	17.4	750	21.2	16.8	<0.001	0.03	0.41	2.7	<0.2	0.8	18.6	<0.01	0.03	3.7
YY18020		2.38	18.1	940	19.7	24.2	<0.001	0.02	0.38	4.1	0.2	1.1	22.5	<0.01	0.03	7.1
YY18021		1.90	21.6	870	18.3	20.3	<0.001	0.02	0.45	4.6	0.2	1.0	19.4	<0.01	0.02	4.4
YY18022		2.14	24.7	660	16.0	21.5	<0.001	0.01	0.46	6.1	0.3	1.2	21.8	<0.01	0.04	8.5
YY18023		1.76	20.7	720	14.3	20.2	<0.001	0.02	0.40	3.7	0.2	1.1	21.5	<0.01	0.02	3.2
YY18024		3.00	21.6	780	11.5	40.3	<0.001	0.02	0.42	5.3	0.2	2.0	20.7	<0.01	0.04	6.6
YY18025		1.64	19.9	740	13.3	18.8	<0.001	0.02	0.40	4.1	0.2	1.2	21.2	<0.01	0.04	3.6
YY18026		2.00	23.5	850	16.2	20.7	<0.001	0.02	0.46	4.6	<0.2	1.3	23.9	<0.01	0.03	4.0
YY18027		1.31	17.2	550	13.0	15.2	<0.001	0.03	0.36	2.6	0.4	0.8	16.8	<0.01	0.03	0.9
YY18028		0.85	3.5	320	6.0	3.3	<0.001	0.03	0.22	0.9	0.2	0.4	11.7	0.01	0.02	0.2
YY18029		1.77	20.6	880	11.5	13.6	<0.001	0.02	0.41	3.2	0.2	0.7	19.7	<0.01	0.03	4.1
YY18030		2.40	21.0	690	14.7	23.9	<0.001	0.02	0.38	4.8	0.2	1.3	18.9	<0.01	0.03	6.1
YY18031		1.55	21.3	880	64.1	20.9	<0.001	0.06	0.50	4.3	0.4	0.9	26.2	<0.01	0.03	2.4
YY18032		2.19	19.3	760	21.2	24.7	<0.001	0.02	0.41	5.1	0.2	1.0	22.1	<0.01	0.03	5.2
YY18033		2.32	19.9	720	15.6	21.1	<0.001	0.03	0.36	4.4	0.2	1.1	17.8	<0.01	0.04	4.5
YY18034		2.35	20.3	850	12.8	25.4	<0.001	0.03	0.40	4.6	0.3	1.4	23.1	<0.01	0.04	4.3
YY18035		0.90	8.8	480	14.5	10.5	<0.001	0.04	0.36	1.2	0.3	1.0	12.5	<0.01	0.03	0.3
YY18036		1.48	19.1	830	34.4	22.4	<0.001	0.05	0.76	3.4	0.3	2.5	21.1	<0.01	0.04	1.8
YY18037		1.63	19.3	850	45.7	24.6	<0.001	0.06	0.86	3.5	0.5	2.9	23.1	<0.01	0.04	1.8
YY18038		1.64	16.4	800	33.3	21.8	<0.001	0.02	0.70	3.2	<0.2	2.5	19.6	<0.01	0.03	3.9
YY18039		2.11	14.8	700	36.1	21.6	<0.001	0.02	0.64	3.4	0.3	2.4	20.8	<0.01	0.03	5.3
YY18040		0.85	10.3	530	22.3	14.1	<0.001	0.02	0.32	1.5	0.3	1.4	17.3	<0.01	0.02	0.3



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18001		0.088	0.24	2.43	58	0.52	7.91	141	1.0
YY18002		0.089	0.15	1.80	54	0.24	8.97	74	1.0
YY18003		0.094	0.23	1.57	50	0.32	8.99	82	1.9
YY18004		0.081	0.34	1.98	46	0.34	13.00	159	1.0
YY18005		0.030	0.26	1.74	33	0.34	18.40	79	0.8
YY18006		0.092	0.16	0.93	70	0.30	4.84	81	1.2
YY18007		0.085	0.24	3.65	53	0.90	15.05	117	1.1
YY18008		0.079	0.20	3.00	60	0.54	12.05	106	0.7
YY18009		0.089	0.23	2.71	56	0.41	10.70	105	0.9
YY18010		0.061	0.17	2.67	53	0.35	8.50	84	0.5
YY18011		0.058	0.16	1.99	52	0.24	5.80	67	0.6
YY18012		0.057	0.16	2.86	60	0.24	9.34	75	0.6
YY18013		0.079	0.14	2.38	52	0.22	26.2	67	0.9
YY18014		0.110	0.22	2.05	55	0.32	8.67	81	1.2
YY18015		0.110	0.17	1.14	51	0.33	5.62	61	1.3
YY18016		0.140	0.24	2.96	71	0.33	15.25	74	2.3
YY18017		0.126	0.17	1.26	64	0.34	8.25	65	1.9
YY18018		0.146	0.24	2.69	69	0.33	9.76	70	2.1
YY18019		0.083	0.13	1.49	48	0.23	7.92	70	0.8
YY18020		0.125	0.20	1.46	52	0.30	9.41	65	2.6
YY18021		0.103	0.17	2.27	61	0.29	8.87	71	1.4
YY18022		0.124	0.22	2.42	65	0.29	8.80	72	4.7
YY18023		0.108	0.17	1.64	61	0.23	7.45	65	1.2
YY18024		0.157	0.30	1.92	66	0.41	9.02	68	1.6
YY18025		0.108	0.16	1.53	59	0.28	7.54	67	1.1
YY18026		0.110	0.16	2.09	63	0.32	9.10	71	1.2
YY18027		0.081	0.15	1.52	59	0.23	5.28	56	1.0
YY18028		0.051	0.07	0.36	31	0.10	1.28	17	0.8
YY18029		0.110	0.13	0.93	60	0.39	7.29	55	1.7
YY18030		0.137	0.21	1.31	65	0.33	7.89	71	1.9
YY18031		0.086	0.18	2.77	63	0.29	7.42	112	1.1
YY18032		0.127	0.21	2.24	55	0.25	7.82	71	1.4
YY18033		0.116	0.16	1.42	65	0.38	6.85	69	1.4
YY18034		0.125	0.19	1.86	64	0.39	8.76	70	1.4
YY18035		0.047	0.10	1.27	38	0.34	4.07	37	0.7
YY18036		0.069	0.20	3.03	62	2.09	7.89	80	0.9
YY18037		0.070	0.23	3.23	59	0.72	8.30	83	0.9
YY18038		0.077	0.18	2.21	50	0.52	8.55	75	0.6
YY18039		0.075	0.19	2.10	45	0.41	8.51	63	0.6
YY18040		0.050	0.13	1.57	40	0.22	5.24	41	<0.5



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Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOD		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY18041		0.22	0.002	0.38	2.12	74.9	<0.02	<10	210	0.99	0.49	0.26	0.20	33.5	5.8	26
YY18042		0.35	0.002	0.12	2.51	81.7	<0.02	<10	220	1.25	0.45	0.31	0.28	39.1	9.2	32
YY18043		0.36	0.002	0.13	2.31	95.3	<0.02	<10	200	1.01	0.52	0.30	0.33	36.4	10.9	30
YY18044		0.34	0.002	0.11	1.71	69.7	<0.02	<10	130	0.79	0.27	0.35	0.25	39.9	7.8	28
YY18045		0.40	0.003	0.15	2.15	83.9	<0.02	<10	140	1.19	0.26	0.45	0.64	48.3	8.9	27
YY18046		0.24	0.001	0.05	1.64	5.7	<0.02	<10	90	0.60	0.21	0.16	0.14	31.6	4.8	18
YY18047		0.34	0.003	0.09	2.64	13.1	<0.02	<10	160	1.43	0.66	0.31	0.29	44.4	9.4	28
YY18048		0.50	0.004	0.36	1.78	534	<0.02	<10	200	0.77	0.45	0.40	0.47	38.2	9.2	30
YY18049		0.35	0.001	0.03	1.92	12.1	<0.02	<10	100	0.56	0.19	0.23	0.20	32.4	8.2	25
YY18050		0.36	0.006	0.06	1.96	12.3	<0.02	<10	140	0.97	0.25	0.39	0.26	51.7	10.1	26
YY18051		0.40	0.005	0.25	1.82	158.5	<0.02	<10	120	0.86	0.36	0.27	0.77	43.7	8.0	23
YY18052		0.45	0.002	0.11	1.79	60.7	<0.02	<10	90	1.02	0.23	0.32	0.31	93.4	8.4	21
YY18053		0.47	0.005	0.14	1.86	41.3	<0.02	<10	170	0.71	0.32	0.41	0.32	44.4	10.6	26
YY18054		0.35	0.002	0.02	1.85	12.8	<0.02	<10	60	0.43	0.21	0.12	0.12	27.8	5.6	26
YY18055		0.39	0.004	0.72	1.91	740	<0.02	<10	180	1.70	1.32	0.22	2.69	126.5	12.4	30
YY18056		0.36	0.070	8.59	1.63	7400	0.05	<10	120	0.97	233	0.16	1.15	103.5	6.7	23
YY18057		0.34	0.002	0.17	1.70	43.0	<0.02	<10	130	0.69	0.51	0.33	0.33	42.4	8.6	28
YY18058		0.40	0.004	0.20	1.65	23.4	<0.02	<10	220	0.72	0.32	0.42	0.46	61.8	9.5	27
YY18059		0.37	0.002	0.12	1.62	11.1	<0.02	<10	120	0.78	0.18	0.34	0.18	53.9	7.6	24
YY18060		0.37	0.001	0.17	1.85	21.4	<0.02	<10	110	0.88	0.27	0.43	0.34	44.1	7.5	27
YY18061		0.42	0.001	0.11	1.83	20.6	<0.02	<10	140	0.99	0.27	0.36	0.26	59.3	7.6	23
YY18062		0.50	0.001	0.15	1.84	24.4	<0.02	<10	140	0.92	0.47	0.31	0.28	43.9	8.7	25
YY18063		0.34	0.002	0.22	2.17	29.9	<0.02	<10	160	0.82	0.32	0.19	0.19	62.2	9.1	32
YY18064		0.41	0.002	0.13	1.84	40.7	<0.02	<10	140	0.80	0.26	0.38	0.33	46.8	10.6	28
YY18065		0.46	0.003	0.17	1.76	70.1	<0.02	<10	160	0.79	0.25	0.39	0.42	45.9	10.5	27
YY18066		0.29	0.005	0.44	2.31	134.5	<0.02	<10	140	1.21	0.37	0.22	0.68	49.4	11.0	32
YY18067		0.31	0.005	0.09	1.92	29.9	<0.02	<10	100	0.65	0.21	0.21	0.34	33.0	9.7	27
YY18068		0.38	0.001	0.08	2.10	20.2	<0.02	<10	120	0.75	0.29	0.31	0.14	40.4	11.3	27
YY18069		0.29	<0.001	0.05	2.76	15.8	<0.02	<10	220	1.10	0.36	0.30	0.23	41.3	10.8	26
YY18070		0.31	0.011	0.61	2.80	273	0.02	<10	300	1.27	0.50	0.37	0.41	89.3	13.8	38
YY18071		0.40	0.001	0.05	2.20	21.7	<0.02	<10	110	0.84	0.38	0.32	0.16	44.8	8.7	27
YY18072		0.40	0.004	0.88	1.87	259	<0.02	<10	120	1.00	0.61	0.35	2.57	73.5	9.5	23
YY18073		0.40	0.003	0.26	2.20	131.5	<0.02	<10	100	0.50	0.37	0.15	0.36	28.7	8.8	29
YY18074		0.30	0.005	0.36	2.32	114.5	<0.02	<10	150	0.75	0.44	0.27	0.40	36.0	11.5	50
YY18075		0.43	0.007	0.09	2.02	63.0	<0.02	<10	120	0.59	0.27	0.14	0.31	33.2	10.3	28
YY18076		0.35	0.002	0.17	2.26	119.5	<0.02	<10	100	0.90	0.33	0.15	0.28	38.1	7.8	30
YY18077		0.36	0.007	0.29	1.70	163.5	<0.02	<10	110	0.82	0.30	0.30	0.40	50.7	8.6	26
YY18078		0.37	0.005	0.25	1.87	44.7	<0.02	<10	150	0.60	0.35	0.30	0.22	35.4	8.2	27
YY18079		0.25	0.005	0.28	1.98	24.7	<0.02	<10	130	0.54	0.31	0.18	1.10	27.4	8.8	32
YY18080		0.45	0.001	0.10	1.93	22.5	<0.02	<10	200	0.81	0.19	0.36	0.33	47.7	9.0	26



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	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
LOD		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY18041		1.87	20.4	2.50	8.59	0.05	<0.02	0.06	0.036	0.09	16.2	14.1	0.45	224	1.15	0.02
YY18042		2.87	21.0	3.48	9.79	0.07	0.03	0.02	0.042	0.15	18.5	24.9	0.71	387	1.03	0.01
YY18043		2.44	19.7	3.27	10.00	0.07	0.02	0.03	0.034	0.13	17.3	22.9	0.58	559	1.26	0.01
YY18044		1.93	20.1	2.58	6.67	0.09	0.03	0.02	0.027	0.12	19.0	16.5	0.53	379	0.74	0.02
YY18045		3.28	22.6	2.74	8.32	0.09	0.03	0.02	0.037	0.13	21.7	18.3	0.56	504	0.70	0.01
YY18046		2.14	8.7	2.11	9.97	0.05	0.02	0.04	0.020	0.08	15.7	16.0	0.36	166	0.72	0.01
YY18047		4.84	20.4	3.40	10.75	0.12	0.03	0.04	0.041	0.44	21.3	32.3	0.93	442	0.88	0.02
YY18048		1.90	25.8	3.08	6.52	0.09	0.05	0.04	0.042	0.16	18.1	17.9	0.57	314	0.77	0.02
YY18049		1.58	16.9	2.56	7.04	0.06	0.03	0.03	0.029	0.10	15.8	16.0	0.54	262	0.72	0.01
YY18050		3.44	25.8	2.80	7.46	0.09	0.03	0.03	0.032	0.12	23.3	18.9	0.60	386	0.89	0.02
YY18051		3.14	18.4	2.56	6.79	0.07	0.02	0.05	0.052	0.11	19.8	16.8	0.57	419	0.79	0.01
YY18052		4.57	18.3	2.68	7.72	0.09	0.02	0.02	0.030	0.15	29.8	18.8	0.62	417	0.96	0.02
YY18053		3.60	20.6	3.13	7.13	0.10	0.05	0.03	0.034	0.33	21.6	21.1	0.85	422	0.88	0.02
YY18054		1.36	13.2	2.57	8.51	0.05	0.03	0.04	0.022	0.06	13.0	11.1	0.32	189	0.95	0.01
YY18055		4.03	73.3	3.73	8.21	0.15	0.03	0.03	0.075	0.21	52.2	18.6	0.58	625	3.97	0.02
YY18056		5.34	208	3.99	8.72	0.14	0.03	0.04	0.512	0.32	55.7	16.4	0.46	320	2.47	0.02
YY18057		1.90	19.5	2.54	7.28	0.08	0.03	0.05	0.036	0.11	20.4	15.8	0.47	357	0.97	0.01
YY18058		1.84	27.5	2.56	6.37	0.12	0.04	0.04	0.042	0.10	29.7	16.1	0.52	385	0.81	0.02
YY18059		2.23	17.1	2.44	6.27	0.09	0.03	0.03	0.033	0.12	25.6	15.4	0.49	296	0.61	0.02
YY18060		3.59	14.5	2.82	8.39	0.08	0.02	0.03	0.043	0.14	22.9	21.2	0.65	369	0.78	0.02
YY18061		4.87	15.8	2.78	9.02	0.10	0.02	0.03	0.037	0.24	27.7	22.4	0.79	428	0.81	0.01
YY18062		3.31	16.1	2.82	7.62	0.07	0.02	0.03	0.031	0.15	21.1	19.6	0.58	424	0.87	0.01
YY18063		3.80	13.7	2.83	8.63	0.09	0.02	0.07	0.035	0.12	30.9	18.1	0.59	299	1.01	0.01
YY18064		3.10	17.5	2.79	7.47	0.08	0.02	0.02	0.030	0.15	22.3	19.9	0.65	427	0.98	0.02
YY18065		2.79	21.1	2.60	6.80	0.08	0.02	0.03	0.034	0.11	21.8	17.1	0.51	476	1.31	0.02
YY18066		5.00	30.0	3.12	8.43	0.07	0.02	0.06	0.050	0.10	23.8	20.5	0.55	488	1.37	0.02
YY18067		1.63	16.4	2.85	6.31	0.06	0.02	0.06	0.038	0.07	14.9	16.0	0.42	388	1.04	0.01
YY18068		2.74	24.6	3.10	7.79	0.08	0.03	0.04	0.029	0.15	19.5	20.8	0.61	334	1.15	0.02
YY18069		6.70	22.4	3.79	12.35	0.07	0.03	0.03	0.035	0.31	17.9	27.4	0.85	342	0.94	0.01
YY18070		5.60	37.4	3.76	10.65	0.15	0.04	0.05	0.058	0.34	47.3	31.8	0.90	421	1.68	0.02
YY18071		2.97	16.6	2.63	7.53	0.08	0.03	0.02	0.023	0.22	21.4	22.5	0.68	212	0.45	0.01
YY18072		4.83	22.9	3.00	7.71	0.13	0.03	0.02	0.093	0.27	34.6	23.6	0.68	852	1.03	0.01
YY18073		1.55	17.6	2.92	7.62	<0.05	0.04	0.06	0.032	0.07	13.6	15.6	0.45	286	1.13	0.01
YY18074		3.26	21.6	3.24	7.81	0.06	0.03	0.04	0.037	0.20	16.9	21.2	0.84	372	1.07	0.02
YY18075		1.52	23.3	2.78	6.02	0.05	0.03	0.07	0.034	0.06	13.8	16.6	0.50	378	1.08	0.01
YY18076		1.66	17.9	2.83	7.14	0.05	0.04	0.04	0.040	0.06	18.6	19.2	0.42	273	1.09	0.01
YY18077		2.41	24.0	2.60	6.73	0.09	0.03	0.04	0.043	0.14	24.3	19.3	0.55	314	0.96	0.01
YY18078		2.07	14.8	2.61	6.67	0.07	0.03	0.03	0.027	0.12	18.5	18.0	0.56	219	1.02	0.01
YY18079		3.04	13.4	3.27	9.25	<0.05	0.02	0.06	0.033	0.15	15.0	20.2	0.61	396	2.24	0.01
YY18080		3.44	18.0	3.14	8.22	0.09	0.04	0.03	0.035	0.36	24.1	24.2	0.67	385	1.34	0.01



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY18041		1.52	16.3	880	38.5	16.3	<0.001	0.07	0.57	2.4	0.4	1.9	30.5	<0.01	0.04	0.6
YY18042		2.42	22.4	760	43.6	24.2	<0.001	0.02	0.67	5.2	0.4	3.0	28.9	<0.01	0.03	6.4
YY18043		2.44	22.3	760	35.6	22.1	<0.001	0.03	0.71	4.5	0.3	2.0	29.5	<0.01	0.03	5.7
YY18044		1.76	19.1	920	22.4	18.6	<0.001	0.02	0.56	4.7	0.4	1.5	24.2	<0.01	0.02	8.1
YY18045		1.97	20.4	810	49.9	19.6	<0.001	0.01	1.37	5.3	0.4	2.6	30.7	0.01	0.02	8.9
YY18046		2.68	12.1	320	13.3	16.0	<0.001	0.02	0.37	2.5	<0.2	2.5	18.0	0.01	0.02	3.3
YY18047		3.03	20.9	760	42.7	71.0	<0.001	0.01	0.54	6.0	0.4	3.1	29.7	<0.01	0.03	8.0
YY18048		1.27	20.7	820	71.3	25.0	<0.001	0.05	1.16	6.2	0.3	1.3	29.2	<0.01	0.02	9.6
YY18049		2.12	20.0	570	13.5	19.0	<0.001	0.02	0.44	3.5	0.4	4.1	16.1	<0.01	0.02	4.0
YY18050		1.99	22.2	1010	18.7	21.8	<0.001	0.02	0.46	4.1	0.4	2.1	26.5	0.01	0.02	8.0
YY18051		1.56	17.5	810	189.0	20.7	<0.001	0.03	1.15	2.8	0.3	2.3	17.6	<0.01	0.02	4.0
YY18052		1.57	17.6	1260	42.5	22.2	<0.001	0.03	0.65	2.9	0.3	3.0	15.5	<0.01	0.02	8.8
YY18053		2.30	22.0	1030	38.1	43.0	<0.001	0.02	0.56	4.1	0.3	2.1	24.2	<0.01	0.02	9.2
YY18054		2.51	14.7	280	13.8	10.4	<0.001	0.02	0.48	3.1	0.4	0.9	10.3	<0.01	0.03	3.9
YY18055		2.24	18.1	620	329	32.8	<0.001	0.07	1.96	5.3	0.3	1.5	20.2	<0.01	0.03	26.1
YY18056		1.99	15.6	630	483	42.8	<0.001	0.29	29.2	4.5	0.4	3.9	16.7	<0.01	0.29	27.4
YY18057		1.81	20.4	850	39.1	19.0	<0.001	0.03	0.84	3.7	0.3	1.4	23.0	<0.01	0.02	4.3
YY18058		1.77	23.4	990	83.7	17.2	<0.001	0.01	0.67	5.1	0.3	1.4	24.9	<0.01	0.02	9.0
YY18059		1.94	17.3	890	23.2	20.1	<0.001	0.02	0.45	3.8	0.2	1.8	18.3	<0.01	0.01	7.3
YY18060		1.62	18.3	840	44.5	26.5	<0.001	0.03	0.63	3.8	0.3	2.5	22.8	<0.01	0.02	6.7
YY18061		2.10	15.8	760	47.7	37.9	<0.001	0.04	0.67	3.4	<0.2	2.9	22.8	<0.01	0.02	5.7
YY18062		1.87	17.4	930	43.7	24.9	<0.001	0.03	0.74	3.1	0.2	1.9	19.5	<0.01	0.02	5.4
YY18063		1.77	16.9	860	65.3	23.5	<0.001	0.04	0.58	4.1	0.2	2.0	15.3	<0.01	0.02	3.1
YY18064		2.01	21.0	990	61.1	28.0	<0.001	0.02	0.67	3.9	0.2	1.6	21.8	<0.01	0.02	7.8
YY18065		1.53	21.8	900	76.7	19.3	<0.001	0.03	0.87	3.4	0.3	1.1	22.8	<0.01	0.03	4.1
YY18066		1.70	23.3	770	238	20.0	<0.001	0.04	2.30	3.6	0.5	1.6	18.5	<0.01	0.03	4.3
YY18067		1.48	20.3	730	71.7	11.1	<0.001	0.04	0.94	2.8	0.3	0.8	15.2	0.01	0.03	2.1
YY18068		2.02	22.8	980	17.8	24.9	<0.001	0.03	0.55	4.2	0.5	1.4	24.5	<0.01	0.02	4.1
YY18069		2.78	20.6	970	15.0	40.4	<0.001	0.04	0.61	5.9	0.4	4.8	31.7	<0.01	0.02	3.9
YY18070		2.26	29.3	970	142.0	45.7	<0.001	0.03	1.18	7.1	0.3	1.7	26.7	<0.01	0.02	8.9
YY18071		2.85	20.1	870	17.8	31.6	<0.001	0.02	0.46	4.1	0.4	1.5	19.6	<0.01	0.02	9.9
YY18072		1.39	17.1	1010	608	39.5	<0.001	0.02	1.66	4.3	0.3	1.9	23.9	<0.01	0.02	13.1
YY18073		2.04	19.9	370	64.8	11.5	<0.001	0.02	0.69	3.6	0.3	0.8	13.3	<0.01	0.03	4.4
YY18074		1.87	29.7	670	64.3	25.6	<0.001	0.03	0.70	4.4	0.5	1.1	21.4	<0.01	0.02	3.5
YY18075		1.45	27.7	370	55.9	10.5	0.001	0.03	0.70	3.2	<0.2	0.7	13.4	0.01	0.03	3.5
YY18076		1.82	19.7	610	81.0	13.2	<0.001	0.02	0.65	3.7	<0.2	1.2	11.6	0.01	0.04	7.2
YY18077		1.74	20.3	1030	99.3	23.3	<0.001	0.02	0.77	3.2	<0.2	1.6	18.0	<0.01	0.03	7.5
YY18078		1.76	21.1	960	39.8	20.1	<0.001	0.02	0.50	3.2	<0.2	1.2	19.8	<0.01	0.02	5.1
YY18079		2.16	20.1	670	48.2	30.8	<0.001	0.04	0.47	3.0	0.2	1.3	17.7	<0.01	0.05	2.4
YY18080		2.38	19.9	1200	32.7	44.3	<0.001	0.02	0.40	4.2	<0.2	1.4	19.7	<0.01	0.02	10.3



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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18041		0.055	0.19	2.98	51	0.35	8.68	67	0.6
YY18042		0.104	0.22	2.49	65	0.36	10.05	84	1.1
YY18043		0.096	0.19	1.99	67	0.56	8.97	90	1.0
YY18044		0.104	0.17	2.29	55	0.38	10.95	69	1.3
YY18045		0.103	0.19	2.64	53	0.66	13.45	122	1.2
YY18046		0.098	0.19	0.82	51	0.31	5.06	42	0.8
YY18047		0.136	0.53	1.96	54	0.54	12.00	80	1.4
YY18048		0.090	0.26	2.09	50	0.29	11.80	97	2.7
YY18049		0.107	0.15	0.75	54	0.21	7.55	54	1.2
YY18050		0.113	0.20	1.99	55	0.21	15.40	75	1.2
YY18051		0.092	0.19	1.32	50	0.23	10.40	127	0.6
YY18052		0.082	0.19	2.06	45	0.21	16.55	88	0.6
YY18053		0.129	0.35	1.85	53	0.27	12.75	78	2.0
YY18054		0.116	0.14	0.62	75	0.21	4.91	42	1.2
YY18055		0.096	0.37	17.85	53	0.18	23.9	266	1.0
YY18056		0.078	0.51	8.19	45	0.22	15.45	119	0.8
YY18057		0.085	0.17	1.62	52	0.21	11.30	82	0.9
YY18058		0.103	0.17	2.62	54	0.33	18.95	99	1.5
YY18059		0.101	0.17	1.60	50	0.23	14.75	59	1.0
YY18060		0.080	0.19	1.16	50	0.22	13.25	94	0.8
YY18061		0.102	0.29	1.71	48	0.21	14.70	84	0.7
YY18062		0.099	0.19	1.40	52	0.28	11.30	67	0.8
YY18063		0.092	0.25	2.44	57	0.21	16.75	69	0.8
YY18064		0.105	0.23	1.70	51	0.34	13.20	92	1.1
YY18065		0.090	0.19	1.92	52	0.32	12.35	100	0.9
YY18066		0.082	0.25	2.63	59	0.30	11.35	177	0.9
YY18067		0.082	0.13	0.94	58	0.37	6.98	91	0.8
YY18068		0.119	0.24	1.95	63	0.26	10.60	63	1.4
YY18069		0.139	0.41	1.39	92	0.32	9.82	69	1.1
YY18070		0.140	0.36	4.62	67	0.23	23.1	128	1.5
YY18071		0.125	0.28	1.31	47	0.22	12.35	59	1.5
YY18072		0.102	0.38	4.56	41	0.21	19.60	428	1.4
YY18073		0.097	0.19	0.71	68	0.24	4.49	68	1.5
YY18074		0.120	0.28	0.98	68	0.26	7.22	94	1.1
YY18075		0.079	0.14	0.86	58	0.27	5.37	74	1.4
YY18076		0.083	0.19	1.30	59	0.34	8.42	69	1.7
YY18077		0.094	0.20	1.89	50	0.44	13.35	109	1.1
YY18078		0.099	0.20	1.73	52	0.53	10.40	64	1.2
YY18079		0.120	0.21	1.17	74	0.31	5.78	78	1.1
YY18080		0.149	0.31	2.18	58	0.64	14.40	76	1.7



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		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
YY18081		0.36	0.005	0.04	1.69	8.9	<0.02	<10	140	0.54	0.15	0.30	0.27	36.2	9.5	27
YY18082		0.33	0.002	0.09	1.29	20.4	<0.02	<10	60	0.38	0.17	0.14	0.20	21.1	4.2	17
YY18083		0.36	0.003	0.06	1.84	10.5	<0.02	<10	120	0.59	0.16	0.29	0.23	34.0	9.3	25
YY18084		0.39	0.233	0.08	1.89	13.4	<0.02	<10	150	0.74	0.29	0.33	0.29	47.4	9.1	25
YY18085		0.35	0.006	0.12	1.91	32.2	<0.02	<10	130	0.65	0.22	0.25	0.35	38.9	9.1	27
YY18086		0.29	0.002	0.08	1.68	9.4	<0.02	<10	60	0.35	0.27	0.08	0.09	24.5	4.6	21
YY18087		0.32	0.002	0.14	1.70	12.2	<0.02	<10	150	0.63	0.29	0.27	0.26	38.6	6.2	21
YY18088		0.33	0.005	0.08	2.28	12.2	<0.02	<10	110	0.86	0.20	0.22	0.27	30.1	11.0	30
YY18089		0.41	0.003	0.04	2.31	12.1	<0.02	<10	150	0.61	0.17	0.14	0.43	30.9	11.0	29
YY18090		0.27	0.001	0.04	2.38	12.0	<0.02	<10	130	0.61	0.19	0.15	0.26	30.9	8.6	30
YY18091		0.34	0.002	0.05	1.69	10.9	<0.02	<10	100	0.62	0.19	0.26	0.30	37.3	8.2	25
YY18092		0.26	0.001	0.32	1.66	7.1	<0.02	<10	110	0.63	0.28	0.20	0.22	41.5	5.6	24
YY18093		0.29	0.003	0.25	1.47	8.2	<0.02	<10	130	0.52	0.30	0.29	0.31	39.2	6.4	23
YY18094		0.23	0.002	0.15	1.78	8.5	<0.02	<10	130	0.54	0.31	0.24	0.25	40.9	7.4	25
YY18095		0.31	0.002	0.15	1.97	10.0	<0.02	<10	130	0.59	0.39	0.21	0.21	42.1	7.5	29
YY18096		0.34	0.006	0.14	2.11	10.8	<0.02	<10	130	0.76	0.38	0.20	0.20	51.7	7.6	30
YY18097		0.30	0.001	0.10	2.01	13.3	<0.02	<10	80	0.61	0.20	0.11	0.14	28.4	6.8	27
YY18098		0.42	0.006	0.32	2.60	116.0	<0.02	<10	150	1.12	0.30	0.24	0.51	42.3	12.2	36
YY18099		0.40	0.002	0.12	2.08	82.9	<0.02	<10	100	0.92	0.34	0.20	0.45	38.4	8.8	28
YY18100		0.28	0.004	0.10	1.96	17.0	<0.02	<10	90	0.52	0.25	0.10	0.23	25.4	4.7	25
YY18101		0.43	0.004	0.11	2.05	23.2	<0.02	<10	150	0.90	0.24	0.28	0.43	45.5	10.8	28
YY18102		0.37	0.003	0.10	2.00	14.5	<0.02	<10	160	0.71	0.27	0.23	0.27	42.3	9.6	28
YY18103		0.33	0.014	0.05	2.09	16.4	<0.02	<10	190	0.64	0.21	0.18	0.21	35.7	9.7	28
YY18104		0.41	0.005	0.06	1.90	18.7	<0.02	<10	180	0.76	0.79	0.36	0.44	48.0	10.7	28
YY18105		0.43	0.010	0.10	1.97	11.3	<0.02	<10	160	0.57	0.26	0.41	0.26	54.5	10.8	29
YY18106		0.34	0.008	0.04	1.87	8.2	<0.02	<10	130	0.50	0.15	0.31	0.24	32.7	9.0	26
YY18107		0.37	0.002	0.10	1.57	9.4	<0.02	<10	140	0.54	0.16	0.23	0.21	34.1	7.2	23
YY18108		0.33	0.001	0.05	2.00	9.9	<0.02	<10	170	0.63	0.19	0.27	0.27	52.1	12.0	32
YY18109		0.39	0.002	0.07	2.11	14.4	<0.02	<10	120	0.61	0.31	0.25	0.25	45.1	10.6	30
YY18110		0.34	0.003	0.04	1.91	9.2	<0.02	<10	120	0.59	0.20	0.31	0.28	49.5	9.5	27
YY18111		0.33	0.001	0.09	1.84	9.4	<0.02	<10	100	0.59	0.27	0.24	0.23	41.6	9.4	23
YY18112		0.38	0.004	0.12	2.12	11.3	<0.02	<10	150	0.71	0.19	0.24	0.36	49.5	13.3	28
YY18113		0.45	0.003	0.08	2.18	13.1	<0.02	<10	170	0.88	0.41	0.22	0.31	69.1	11.5	28
YY18114		0.35	0.001	0.05	2.05	9.5	<0.02	<10	100	0.51	0.30	0.23	0.18	38.6	8.3	26
YY18115		0.30	0.001	0.16	2.00	12.3	<0.02	<10	230	0.67	0.38	0.21	0.20	45.6	8.9	28
YY18116		0.27	0.002	0.29	2.07	13.7	<0.02	<10	160	0.66	0.38	0.18	0.17	57.9	8.0	27
YY18117		0.44	0.002	0.10	1.76	10.5	<0.02	<10	140	0.49	0.28	0.22	0.19	46.5	9.1	27
YY18118		0.40	0.004	0.05	1.76	11.7	<0.02	<10	100	0.43	0.33	0.13	0.15	31.8	8.1	24
YY18119		0.30	0.002	0.14	1.62	8.3	<0.02	<10	120	0.48	0.17	0.26	0.18	40.7	8.0	22
YY18120		0.35	0.001	0.09	1.25	6.6	<0.02	<10	50	0.26	0.22	0.06	0.08	20.9	3.2	15



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
YY18081		1.56	17.3	2.45	5.35	0.06	0.04	0.01	0.025	0.10	15.6	15.8	0.48	392	0.69	0.01
YY18082		1.13	13.7	1.96	5.31	<0.05	0.02	0.03	0.018	0.05	10.3	9.0	0.20	155	0.77	0.02
YY18083		1.26	19.4	2.49	4.88	0.06	0.08	0.19	0.025	0.08	15.7	15.6	0.45	346	0.76	0.01
YY18084		3.34	21.8	2.80	6.85	0.08	0.03	0.03	0.030	0.22	24.7	23.4	0.53	351	0.75	0.02
YY18085		1.92	20.3	2.85	6.20	0.06	0.03	0.03	0.030	0.12	18.3	18.5	0.51	371	0.81	0.01
YY18086		1.57	13.7	2.56	9.20	<0.05	0.03	0.06	0.025	0.06	12.3	11.1	0.25	175	1.27	0.01
YY18087		3.21	18.1	2.95	8.05	0.08	0.02	0.04	0.042	0.35	19.7	17.2	0.66	259	2.02	0.02
YY18088		1.48	15.7	2.95	5.98	0.06	0.09	0.04	0.030	0.12	15.2	19.3	0.57	391	1.19	0.01
YY18089		1.21	21.4	2.89	5.89	<0.05	0.03	0.03	0.032	0.09	12.0	17.6	0.56	391	0.90	0.01
YY18090		1.37	15.9	3.30	7.30	<0.05	0.04	0.05	0.030	0.07	15.1	19.0	0.44	276	1.18	0.01
YY18091		2.08	16.1	2.78	6.51	0.06	0.02	0.03	0.026	0.19	19.2	18.3	0.58	326	1.02	0.01
YY18092		2.22	17.3	2.20	6.32	0.07	0.02	0.06	0.024	0.18	21.6	13.3	0.49	176	1.04	0.02
YY18093		2.04	16.7	2.32	6.00	0.07	0.02	0.04	0.024	0.20	20.0	13.4	0.49	237	1.11	0.02
YY18094		2.01	16.1	2.68	6.73	0.07	0.03	0.02	0.028	0.21	21.6	17.4	0.58	299	0.99	0.01
YY18095		2.07	16.3	3.03	7.55	0.08	0.02	0.04	0.028	0.20	22.3	17.8	0.60	323	1.10	0.01
YY18096		2.08	18.5	3.47	7.89	0.08	0.03	0.02	0.034	0.19	27.8	20.0	0.65	264	1.01	0.01
YY18097		1.44	15.4	3.11	7.27	<0.05	0.02	0.07	0.026	0.06	13.8	16.5	0.35	277	1.31	0.01
YY18098		3.57	27.7	3.63	8.10	0.07	0.03	0.09	0.064	0.16	18.4	25.5	0.66	506	1.58	0.01
YY18099		4.48	19.7	3.34	9.54	0.07	0.03	0.03	0.061	0.25	18.7	26.0	0.63	355	2.98	0.01
YY18100		1.66	15.4	2.98	9.00	<0.05	<0.02	0.04	0.028	0.04	12.7	12.9	0.23	178	1.53	0.01
YY18101		2.76	22.2	3.22	7.20	0.07	0.03	0.03	0.041	0.18	20.9	23.2	0.59	480	1.04	0.01
YY18102		1.86	21.6	2.77	6.31	0.06	0.03	0.03	0.028	0.08	21.8	16.9	0.48	421	0.94	0.01
YY18103		1.45	22.4	2.97	5.80	0.05	0.04	0.04	0.025	0.06	16.0	16.1	0.52	409	0.91	0.01
YY18104		2.40	22.7	2.86	6.17	0.08	0.07	0.02	0.036	0.17	21.6	19.5	0.54	510	0.78	0.02
YY18105		3.46	23.6	3.32	8.41	0.10	0.05	0.02	0.042	0.42	27.5	26.1	0.69	384	0.68	0.02
YY18106		1.32	19.2	2.80	5.36	0.07	0.05	0.10	0.024	0.12	15.2	15.7	0.53	369	0.84	0.02
YY18107		1.68	17.4	2.50	6.39	0.05	0.03	0.04	0.022	0.13	16.2	14.8	0.41	301	1.15	0.02
YY18108		2.17	19.4	2.98	6.32	0.09	0.07	0.04	0.028	0.14	19.2	17.6	0.73	431	0.85	0.01
YY18109		3.00	17.7	3.44	7.42	0.07	0.04	0.03	0.037	0.25	22.1	23.3	0.82	414	1.03	0.01
YY18110		2.08	20.7	2.80	6.11	0.08	0.04	0.02	0.032	0.21	23.7	20.0	0.65	335	0.90	0.01
YY18111		1.71	18.4	2.65	7.26	0.07	0.05	0.04	0.028	0.16	20.3	17.7	0.54	287	0.85	0.01
YY18112		2.03	21.6	3.00	7.07	0.08	0.05	0.03	0.031	0.15	22.1	18.7	0.61	523	0.91	0.02
YY18113		2.53	20.1	3.28	8.87	0.09	0.03	0.02	0.036	0.20	33.3	22.7	0.64	523	0.97	0.01
YY18114		2.02	15.4	3.23	7.47	0.07	0.06	0.03	0.029	0.15	18.5	18.5	0.56	336	0.83	0.01
YY18115		2.15	19.1	3.14	8.24	0.07	0.03	0.04	0.034	0.13	22.0	19.0	0.56	367	1.20	0.02
YY18116		2.03	19.3	2.85	8.20	0.08	0.02	0.04	0.039	0.14	30.4	16.8	0.51	298	1.22	0.02
YY18117		1.71	16.2	2.84	7.08	0.08	0.03	0.03	0.028	0.17	22.4	16.7	0.56	347	0.94	0.01
YY18118		1.69	14.7	3.33	10.05	<0.05	0.04	0.03	0.029	0.09	14.3	16.4	0.42	320	1.33	0.01
YY18119		1.61	17.4	2.36	5.88	0.06	0.02	0.02	0.027	0.10	18.8	14.1	0.48	315	0.94	0.02
YY18120		1.32	11.0	2.42	8.53	<0.05	0.02	0.03	0.018	0.04	10.2	5.8	0.14	114	1.44	0.02



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY18081		1.63	24.1	960	10.0	17.0	0.001	0.02	0.34	3.1	<0.2	0.7	17.1	0.01	0.02	6.2
YY18082		1.53	11.6	590	34.8	9.1	<0.001	0.04	0.49	1.5	<0.2	0.6	10.9	0.01	0.03	1.6
YY18083		1.76	24.6	900	9.6	14.6	<0.001	0.02	0.37	3.2	0.2	0.6	17.1	0.01	0.03	6.7
YY18084		1.97	19.8	1100	18.4	36.3	<0.001	0.02	0.30	3.6	<0.2	1.2	21.9	<0.01	0.03	6.9
YY18085		1.77	22.5	790	44.5	20.9	<0.001	0.03	0.50	3.4	<0.2	0.9	16.4	0.01	0.03	4.4
YY18086		2.21	11.9	380	16.4	11.0	<0.001	0.03	0.32	2.2	0.2	1.2	10.0	0.01	0.04	2.5
YY18087		2.49	15.4	890	20.0	45.7	<0.001	0.09	0.36	3.2	<0.2	2.1	24.7	<0.01	0.03	5.8
YY18088		2.10	22.2	750	50.6	20.3	<0.001	0.02	0.35	3.7	<0.2	0.7	15.1	0.01	0.04	7.5
YY18089		1.69	30.2	410	16.3	14.2	<0.001	0.03	0.46	3.2	0.2	0.6	13.8	0.01	0.03	3.2
YY18090		2.25	22.5	370	16.6	15.0	<0.001	0.02	0.39	3.8	<0.2	0.8	15.3	0.01	0.04	5.1
YY18091		1.97	20.6	890	20.9	27.9	<0.001	0.03	0.34	2.9	<0.2	0.9	17.7	<0.01	0.04	4.6
YY18092		1.42	17.1	720	19.4	27.1	<0.001	0.06	0.23	2.0	<0.2	0.9	19.3	<0.01	0.04	0.9
YY18093		1.61	16.2	940	22.6	29.8	0.001	0.08	0.28	2.3	<0.2	0.9	25.0	<0.01	0.05	1.9
YY18094		2.03	18.7	780	18.0	33.0	<0.001	0.04	0.28	3.1	<0.2	1.0	18.4	<0.01	0.03	3.8
YY18095		1.88	19.5	820	19.3	30.6	<0.001	0.04	0.26	2.9	0.2	1.0	17.4	<0.01	0.05	2.7
YY18096		2.03	21.4	730	18.0	29.9	<0.001	0.03	0.29	3.8	0.2	1.2	15.6	<0.01	0.04	4.4
YY18097		1.67	17.5	480	33.9	12.0	<0.001	0.04	0.45	2.3	0.2	0.7	11.6	0.01	0.04	1.5
YY18098		1.93	30.6	790	51.1	27.3	<0.001	0.04	1.17	4.4	<0.2	1.2	17.1	0.01	0.04	5.2
YY18099		2.55	19.7	680	110.0	39.0	<0.001	0.03	0.88	3.8	<0.2	3.2	14.0	<0.01	0.03	7.9
YY18100		1.62	13.5	520	41.6	8.2	<0.001	0.04	0.49	1.8	0.4	1.0	11.4	<0.01	0.05	0.8
YY18101		1.76	23.3	1010	43.7	29.4	<0.001	0.03	0.65	3.6	<0.2	0.9	16.5	<0.01	0.03	5.2
YY18102		1.51	25.6	780	17.5	16.8	<0.001	0.03	0.51	3.2	0.2	0.8	16.0	<0.01	0.03	3.4
YY18103		1.37	25.2	530	16.9	12.7	<0.001	0.03	0.47	3.3	<0.2	0.6	15.5	0.01	0.04	3.4
YY18104		1.88	27.3	1120	24.1	27.9	<0.001	0.02	0.45	4.2	<0.2	1.1	19.7	0.01	0.03	7.4
YY18105		2.14	20.4	1190	21.3	61.8	0.001	0.02	0.36	5.9	<0.2	1.6	22.5	<0.01	0.03	8.8
YY18106		1.73	25.6	850	9.1	18.8	<0.001	0.03	0.36	3.2	<0.2	0.8	19.0	0.01	0.03	3.9
YY18107		1.54	17.6	660	14.5	21.5	<0.001	0.04	0.37	2.4	<0.2	0.8	18.7	<0.01	0.02	2.0
YY18108		1.84	31.8	740	13.4	28.6	<0.001	0.02	0.36	3.7	0.2	0.8	20.5	<0.01	0.03	5.4
YY18109		2.51	22.9	800	25.2	39.0	<0.001	0.03	0.40	3.4	<0.2	1.0	17.0	<0.01	0.02	8.2
YY18110		2.27	23.1	980	13.7	30.3	<0.001	0.03	0.38	3.4	<0.2	0.9	17.2	<0.01	0.03	8.5
YY18111		3.15	20.0	760	10.4	27.4	<0.001	0.02	0.47	3.9	0.5	1.0	16.5	0.01	0.03	7.7
YY18112		2.52	25.0	780	17.1	24.1	<0.001	0.02	0.47	4.4	0.2	0.9	17.9	0.01	0.03	6.8
YY18113		2.68	21.7	840	26.6	33.6	<0.001	0.02	0.48	4.4	0.4	1.1	17.2	<0.01	0.04	7.8
YY18114		3.18	17.4	800	16.4	24.0	<0.001	0.03	0.43	3.3	0.3	0.9	14.0	<0.01	0.02	9.5
YY18115		2.28	19.7	630	31.5	24.1	<0.001	0.02	0.47	3.7	0.3	1.0	19.1	<0.01	0.04	4.4
YY18116		1.94	17.9	820	47.9	24.3	<0.001	0.06	0.46	3.1	0.4	1.1	17.9	<0.01	0.05	2.2
YY18117		2.08	19.0	750	12.4	25.6	<0.001	0.04	0.43	3.2	0.2	1.0	17.8	<0.01	0.04	3.4
YY18118		3.44	16.3	520	17.9	17.9	<0.001	0.03	0.49	3.0	0.3	1.2	13.5	0.01	0.05	5.1
YY18119		1.54	16.8	820	80.1	18.2	<0.001	0.02	0.47	2.8	<0.2	0.7	17.5	<0.01	0.02	3.5
YY18120		2.42	7.1	330	12.1	10.8	<0.001	0.03	0.41	1.7	0.3	1.0	8.8	<0.01	0.03	2.0



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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18081		0.102	0.19	0.98	53	0.26	9.54	59	1.7
YY18082		0.075	0.12	0.77	44	0.48	4.92	42	1.1
YY18083		0.093	0.15	1.05	53	0.40	9.90	57	2.8
YY18084		0.118	0.30	2.59	53	0.29	14.35	79	1.2
YY18085		0.101	0.21	1.78	57	0.37	10.20	82	1.2
YY18086		0.094	0.19	0.89	72	0.25	3.77	36	1.2
YY18087		0.120	0.32	2.27	49	0.23	9.85	78	0.8
YY18088		0.105	0.17	2.00	55	0.24	7.77	81	3.0
YY18089		0.088	0.18	0.92	55	0.22	5.26	69	1.2
YY18090		0.107	0.16	1.07	68	0.26	6.77	55	1.9
YY18091		0.107	0.23	1.87	53	0.22	10.05	73	1.1
YY18092		0.077	0.26	2.85	41	0.23	11.70	67	0.8
YY18093		0.085	0.25	2.19	43	0.21	11.40	83	0.9
YY18094		0.109	0.25	1.98	50	0.22	11.00	85	0.9
YY18095		0.101	0.24	2.22	56	0.28	10.35	85	0.9
YY18096		0.101	0.26	2.65	57	0.25	12.95	83	1.1
YY18097		0.086	0.15	0.89	67	0.25	4.78	46	1.0
YY18098		0.119	0.28	1.93	72	0.31	9.11	144	1.5
YY18099		0.134	0.35	2.13	66	0.58	10.15	106	1.5
YY18100		0.072	0.20	0.93	75	0.23	3.76	53	0.8
YY18101		0.114	0.26	1.86	64	0.21	11.25	94	1.4
YY18102		0.091	0.16	1.64	58	0.29	10.65	76	1.3
YY18103		0.080	0.16	1.42	59	0.25	7.64	64	1.7
YY18104		0.120	0.25	1.33	57	0.25	12.75	82	2.3
YY18105		0.171	0.44	2.12	68	0.35	15.50	102	2.3
YY18106		0.115	0.19	0.85	60	0.32	7.52	65	1.6
YY18107		0.091	0.22	1.21	52	0.23	8.67	58	1.2
YY18108		0.116	0.27	1.21	55	0.20	9.80	70	2.4
YY18109		0.131	0.31	1.71	56	0.28	10.55	81	1.6
YY18110		0.121	0.24	1.56	51	0.21	11.15	68	1.6
YY18111		0.118	0.22	1.41	50	0.26	10.85	53	1.8
YY18112		0.109	0.21	1.62	55	0.24	11.10	72	2.5
YY18113		0.114	0.26	2.42	57	0.22	16.45	92	1.3
YY18114		0.118	0.22	1.47	57	0.25	9.42	66	2.7
YY18115		0.108	0.22	2.16	61	0.27	11.20	76	1.3
YY18116		0.087	0.24	2.68	55	0.28	13.90	68	1.1
YY18117		0.102	0.22	1.68	53	0.29	10.90	66	1.1
YY18118		0.134	0.19	0.94	75	0.31	5.92	64	2.0
YY18119		0.087	0.19	1.36	46	0.19	10.30	63	1.0
YY18120		0.093	0.13	0.74	60	0.21	3.58	26	1.3



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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
YY18121		0.38	0.002	0.12	1.77	9.8	<0.02	<10	140	0.75	0.19	0.33	0.34	70.0	10.3	25
YY18122		0.41	0.001	0.05	2.13	12.5	<0.02	<10	140	0.76	0.22	0.25	0.26	60.5	11.4	28
YY18123		0.38	0.004	0.11	1.59	9.3	<0.02	<10	110	0.47	0.26	0.27	0.13	47.0	7.3	26
YY18124		0.41	0.003	0.08	2.20	11.6	<0.02	<10	170	0.69	0.30	0.18	0.26	56.4	11.8	30
YY18125		0.35	<0.001	0.05	2.18	7.2	<0.02	<10	200	0.67	0.20	0.35	0.23	42.9	12.4	48
YY18126		0.40	0.003	0.04	2.03	14.3	<0.02	<10	110	0.68	0.35	0.21	0.20	56.4	11.3	24
YY18127		0.25	0.001	0.15	1.58	8.9	<0.02	<10	80	0.50	0.32	0.12	0.22	36.3	4.7	20
YY18128		0.37	0.005	0.08	2.10	13.6	<0.02	<10	120	0.80	0.21	0.27	0.28	51.7	13.3	56
YY18129		0.33	0.002	0.07	1.95	12.2	<0.02	<10	90	0.62	0.16	0.21	0.29	39.6	10.5	33
YY18130		0.32	0.002	0.04	2.38	12.0	<0.02	<10	90	0.60	0.17	0.16	0.20	31.8	8.8	33
YY18131		0.29	0.002	0.05	1.80	10.7	<0.02	<10	90	0.52	0.24	0.13	0.14	33.8	8.7	28
YY18132		0.47	0.002	0.13	2.08	13.3	<0.02	<10	90	0.61	0.25	0.15	0.19	33.9	8.7	29
YY18133		0.33	0.002	0.16	2.16	28.7	<0.02	<10	100	1.00	0.29	0.22	0.67	47.0	11.1	29
YY18134		0.42	0.002	0.03	2.05	13.5	<0.02	<10	100	0.82	0.19	0.18	0.16	44.1	11.6	28
YY18135		0.47	0.095	0.09	1.81	11.0	<0.02	<10	130	0.81	0.24	0.25	0.32	62.9	16.2	26
YY18136		0.49	0.004	8.07	0.39	2770	<0.02	<10	70	0.39	1.40	0.24	6.80	26.1	0.5	3
YY18137		0.37	0.004	0.08	2.56	39.1	<0.02	<10	220	1.31	0.27	0.29	0.65	51.7	12.0	28
YY18138		0.36	0.003	0.16	1.70	36.8	<0.02	<10	110	0.66	0.24	0.29	0.34	45.9	9.1	27
YY18139		0.38	0.002	0.23	1.41	53.9	<0.02	<10	100	0.94	0.23	0.24	0.20	56.0	6.0	17
YY18140		0.39	0.005	0.17	1.94	113.0	<0.02	<10	140	0.87	0.29	0.35	0.46	50.9	12.1	29
YY18141		0.36	0.006	0.86	1.75	192.5	<0.02	<10	130	0.74	0.39	0.27	0.40	50.3	8.6	27
YY18142		0.52	0.003	0.34	1.93	66.3	<0.02	<10	140	0.75	0.35	0.26	0.19	51.3	7.8	28
YY18143		0.48	0.009	0.16	1.55	29.3	<0.02	<10	120	1.01	0.26	0.27	0.27	79.4	8.7	23
YY18144		0.42	0.003	0.06	1.74	19.9	<0.02	<10	120	1.41	0.23	0.29	0.34	112.5	9.2	24
YY18145		0.61	0.004	0.11	1.55	15.6	<0.02	<10	110	0.81	0.28	0.31	0.24	53.1	8.0	25
YY18146		0.26	0.003	0.25	1.96	20.5	<0.02	<10	140	0.84	0.31	0.21	0.16	72.5	6.6	29
YY18147		0.28	0.001	0.53	1.06	28.8	<0.02	<10	80	0.37	0.43	0.17	0.94	37.5	4.4	16
YY18148		0.31	0.001	0.59	2.00	62.9	<0.02	<10	150	0.76	0.50	0.15	0.50	49.2	7.8	24
YY18149		0.50	0.003	0.34	1.63	96.9	<0.02	<10	120	1.02	0.35	0.24	0.59	76.3	6.7	24
YY18150		0.29	0.002	0.43	1.73	121.5	<0.02	<10	120	0.80	1.01	0.13	0.67	69.8	5.7	22
YY18151		0.34	0.002	0.14	1.46	32.1	<0.02	<10	150	0.76	0.46	0.26	0.35	76.7	8.6	24
YY18152		0.39	0.001	0.25	1.90	27.1	0.02	<10	160	0.95	0.80	0.19	0.24	71.2	9.2	27
YY18153		0.31	0.002	0.11	1.95	22.4	<0.02	<10	150	0.86	0.90	0.19	0.27	62.3	9.5	28
YY18154		0.44	0.006	0.37	2.04	41.1	<0.02	<10	240	0.97	1.01	0.27	0.24	129.5	9.8	30
YY18155		0.35	0.005	0.40	1.64	68.2	<0.02	<10	170	0.66	0.53	0.37	0.27	58.2	8.0	24
YY18156		0.60	0.003	0.29	1.94	44.4	<0.02	<10	150	0.68	0.38	0.28	0.25	50.9	10.4	27
YY18157		0.45	0.004	0.65	1.91	66.4	<0.02	<10	130	0.72	0.74	0.28	0.38	53.2	9.2	27
YY18158		0.42	0.007	0.29	1.94	27.7	<0.02	<10	140	0.67	0.33	0.28	0.26	45.9	7.6	29
YY18159		0.26	0.002	0.27	1.55	28.1	<0.02	<10	170	0.65	0.25	0.39	0.44	75.2	10.6	24
YY18160		0.40	0.001	0.20	1.53	22.0	<0.02	<10	140	0.62	0.35	0.24	0.27	70.1	8.4	24



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
YY18121		2.51	20.1	2.94	7.63	0.11	0.03	0.03	0.040	0.20	35.8	20.8	0.59	485	0.89	0.02
YY18122		2.84	19.1	3.15	8.16	0.09	0.05	0.03	0.033	0.18	29.1	22.7	0.62	371	0.98	0.01
YY18123		2.38	15.5	2.53	6.93	0.08	0.03	0.02	0.027	0.19	26.2	16.2	0.53	243	0.79	0.02
YY18124		1.80	21.4	3.26	8.02	0.09	0.04	0.03	0.030	0.13	25.4	18.8	0.54	499	1.02	0.01
YY18125		6.71	19.6	3.18	8.58	0.09	0.06	0.01	0.025	0.50	19.8	27.3	1.08	423	0.53	0.02
YY18126		2.83	20.5	2.98	7.25	0.08	0.03	0.07	0.027	0.16	26.5	20.5	0.62	341	0.86	0.01
YY18127		2.82	19.8	2.25	7.45	0.06	0.03	0.06	0.030	0.10	17.1	10.0	0.33	162	1.18	0.02
YY18128		3.48	23.2	3.32	7.82	0.08	0.04	0.04	0.029	0.24	23.9	24.6	0.78	446	0.89	0.02
YY18129		2.40	21.7	2.82	6.65	0.06	0.03	0.05	0.025	0.12	18.2	17.9	0.54	404	0.86	0.01
YY18130		1.60	19.1	3.35	7.09	0.05	0.04	0.09	0.032	0.09	13.2	20.1	0.50	343	0.97	0.02
YY18131		1.58	19.3	2.94	6.71	0.05	0.02	0.09	0.031	0.08	14.7	17.0	0.43	399	0.96	0.01
YY18132		1.49	19.9	2.81	6.67	0.06	0.02	0.07	0.033	0.07	15.3	16.2	0.44	325	1.19	0.01
YY18133		4.05	19.0	3.00	7.66	0.06	0.02	0.03	0.074	0.10	20.0	20.1	0.54	418	1.20	0.01
YY18134		2.08	20.2	2.81	6.61	0.06	0.03	0.03	0.031	0.10	19.0	16.7	0.50	375	0.92	0.01
YY18135		2.70	24.1	2.73	6.15	0.08	0.03	0.03	0.035	0.08	26.6	17.2	0.43	545	1.41	0.01
YY18136		15.70	43.4	5.28	3.29	<0.05	<0.02	<0.01	0.259	0.33	13.1	2.0	0.07	69	7.18	0.11
YY18137		5.54	22.4	4.26	11.60	0.08	0.04	0.03	0.055	0.40	22.7	28.1	0.82	677	1.12	0.02
YY18138		2.38	26.6	2.80	6.73	0.08	0.03	0.04	0.033	0.13	21.9	15.7	0.48	397	0.87	0.02
YY18139		3.85	22.2	2.17	6.79	0.08	0.02	0.03	0.028	0.09	26.1	11.0	0.31	337	1.09	0.03
YY18140		2.81	31.9	3.14	7.27	0.07	0.04	0.03	0.037	0.17	22.4	19.3	0.61	528	1.09	0.02
YY18141		3.14	28.6	2.82	7.41	0.08	0.03	0.04	0.044	0.15	24.6	15.8	0.49	405	1.08	0.02
YY18142		3.31	14.3	2.71	8.57	0.07	0.02	0.05	0.035	0.11	25.2	19.2	0.56	251	0.71	0.01
YY18143		3.47	15.6	2.85	9.61	0.12	0.02	0.03	0.044	0.15	49.1	19.8	0.46	443	1.02	0.02
YY18144		3.16	18.7	3.10	9.86	0.18	0.04	0.02	0.038	0.22	82.0	21.7	0.56	512	1.16	0.01
YY18145		1.99	14.9	2.69	7.43	0.10	0.03	0.02	0.032	0.12	43.0	17.9	0.52	284	0.93	0.01
YY18146		2.50	15.7	2.48	8.94	0.12	0.02	0.05	0.040	0.10	60.0	18.8	0.51	202	1.15	0.02
YY18147		1.55	11.1	2.18	8.25	0.06	0.02	0.05	0.024	0.13	20.6	8.7	0.25	249	1.27	0.01
YY18148		2.25	17.9	3.55	11.30	0.08	0.03	0.03	0.041	0.16	36.4	17.8	0.43	435	2.48	0.01
YY18149		2.22	17.7	2.69	6.98	0.11	0.02	0.02	0.031	0.15	51.7	18.7	0.52	355	1.40	0.01
YY18150		2.13	28.6	2.54	6.70	0.08	0.02	0.03	0.035	0.08	38.7	12.9	0.36	366	1.89	0.02
YY18151		1.31	22.5	2.61	5.67	0.09	0.05	0.02	0.031	0.08	39.2	15.8	0.43	415	1.36	0.02
YY18152		1.68	19.8	2.87	6.97	0.09	0.03	0.03	0.039	0.09	37.2	20.7	0.41	413	1.85	0.02
YY18153		1.60	20.8	2.99	6.93	0.08	0.03	0.02	0.036	0.09	33.3	20.0	0.45	359	1.52	0.01
YY18154		1.80	26.8	3.10	7.54	0.17	0.05	0.05	0.044	0.10	74.8	19.0	0.45	461	2.13	0.02
YY18155		1.96	17.2	2.39	6.41	0.09	0.02	0.05	0.034	0.11	28.4	17.2	0.51	249	1.06	0.02
YY18156		2.48	15.8	2.61	7.31	0.07	0.02	0.04	0.034	0.12	26.7	19.7	0.59	263	0.70	0.02
YY18157		3.05	14.8	2.54	7.46	0.08	0.02	0.04	0.050	0.18	28.5	20.3	0.66	299	0.62	0.02
YY18158		3.07	12.8	2.40	7.57	0.05	0.02	0.05	0.043	0.13	22.0	20.5	0.63	201	0.64	0.02
YY18159		2.64	13.5	2.38	6.28	0.09	0.02	0.03	0.036	0.14	34.2	16.7	0.57	742	0.70	0.02
YY18160		2.46	12.7	2.29	6.64	0.12	0.02	0.04	0.027	0.13	57.1	15.4	0.49	383	0.90	0.02



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	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOD	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
YY18121		2.34	20.2	1050	68.0	34.3	<0.001	0.02	0.51	4.1	0.2	1.1	20.0	<0.01	0.02	7.3
YY18122		3.00	21.9	830	14.8	31.6	<0.001	0.02	0.53	4.1	0.4	1.1	15.5	<0.01	0.02	9.6
YY18123		2.20	16.6	750	15.0	29.4	<0.001	0.04	0.54	3.8	<0.2	1.0	19.2	<0.01	0.02	4.7
YY18124		2.19	22.7	810	16.6	22.3	<0.001	0.03	0.58	4.3	0.4	0.9	14.3	<0.01	0.03	4.3
YY18125		2.14	34.7	970	12.2	66.6	<0.001	0.02	0.37	4.4	0.2	1.1	21.2	<0.01	0.01	8.6
YY18126		2.04	20.9	730	17.1	24.1	<0.001	0.03	0.52	3.1	0.4	0.8	14.2	<0.01	0.02	5.1
YY18127		1.53	11.6	760	17.4	20.3	<0.001	0.10	0.55	1.1	0.5	0.9	12.9	<0.01	0.03	0.5
YY18128		2.56	32.3	780	16.4	39.3	<0.001	0.04	0.51	3.9	0.4	0.9	18.0	<0.01	0.02	5.9
YY18129		1.82	24.2	640	18.9	20.9	<0.001	0.03	0.53	3.0	0.3	0.7	14.5	<0.01	0.02	2.6
YY18130		2.07	20.9	550	22.2	14.5	<0.001	0.05	0.54	3.3	0.6	0.6	13.8	0.01	0.03	2.3
YY18131		1.55	20.8	460	9.3	15.5	<0.001	0.05	0.56	2.3	0.3	0.7	12.8	<0.01	0.03	1.2
YY18132		1.54	20.9	560	31.2	12.3	<0.001	0.04	0.65	2.8	0.6	0.7	13.5	<0.01	0.03	1.4
YY18133		2.07	22.3	680	202	19.2	<0.001	0.03	0.97	3.5	0.4	1.1	14.2	<0.01	0.02	4.6
YY18134		1.93	23.7	480	19.4	15.0	0.001	0.03	0.68	3.4	0.4	0.9	18.8	0.01	0.02	4.0
YY18135		1.67	22.9	800	36.3	14.5	<0.001	0.03	0.57	3.4	<0.2	0.8	16.0	<0.01	0.04	5.1
YY18136		<0.05	3.2	640	2140	38.4	<0.001	0.77	13.45	0.7	1.5	3.3	70.5	<0.01	<0.01	21.0
YY18137		2.81	23.3	850	108.0	58.8	<0.001	0.03	1.01	4.5	0.3	1.6	18.0	<0.01	0.03	8.2
YY18138		1.61	19.4	820	54.0	20.6	<0.001	0.03	0.87	3.5	0.4	0.8	19.9	<0.01	0.03	4.0
YY18139		0.90	11.3	840	45.3	13.3	<0.001	0.07	1.34	1.4	0.4	0.7	18.8	<0.01	0.03	0.8
YY18140		2.00	23.5	1090	91.2	27.1	<0.001	0.03	1.23	4.2	0.4	0.9	21.6	<0.01	0.02	6.9
YY18141		1.56	17.8	1010	258	24.0	<0.001	0.06	3.81	3.2	0.4	1.0	18.3	<0.01	0.04	3.4
YY18142		1.61	15.8	920	71.5	21.1	<0.001	0.04	1.11	3.7	0.5	1.0	17.9	<0.01	0.02	4.5
YY18143		2.16	14.5	830	51.2	29.5	<0.001	0.03	1.00	4.0	0.3	2.2	18.2	<0.01	0.02	14.5
YY18144		2.53	18.2	950	25.6	32.0	<0.001	0.02	0.77	4.3	0.4	1.9	16.8	<0.01	0.02	16.8
YY18145		1.83	17.0	850	24.6	19.6	<0.001	0.01	0.76	3.5	0.2	1.2	18.2	<0.01	0.03	12.8
YY18146		1.65	15.5	820	36.4	20.0	<0.001	0.04	0.69	3.6	0.3	1.4	16.9	<0.01	0.02	5.1
YY18147		3.10	8.8	450	58.3	23.8	<0.001	0.03	2.17	2.2	0.2	1.6	13.9	<0.01	0.04	4.3
YY18148		4.17	15.2	320	57.7	39.9	<0.001	0.02	2.52	4.0	0.2	2.0	18.1	<0.01	0.05	7.7
YY18149		2.81	15.7	370	133.5	26.0	<0.001	0.01	3.22	4.0	<0.2	1.4	18.4	<0.01	0.03	15.5
YY18150		1.17	12.2	620	91.8	20.6	<0.001	0.04	4.11	2.4	0.2	1.1	14.7	<0.01	0.05	2.6
YY18151		2.23	19.5	680	32.6	15.2	<0.001	0.01	1.34	3.7	0.3	1.1	18.1	<0.01	0.03	11.1
YY18152		2.39	18.8	610	33.4	17.6	<0.001	0.01	1.07	3.7	0.4	1.3	15.3	<0.01	0.05	10.5
YY18153		2.57	20.8	570	24.1	17.7	<0.001	0.02	0.87	3.8	0.3	1.2	14.9	<0.01	0.07	8.2
YY18154		2.85	21.7	800	38.0	20.1	<0.001	0.02	1.06	5.5	0.3	1.5	19.0	<0.01	0.06	11.6
YY18155		1.89	16.4	1070	66.5	19.7	<0.001	0.02	1.33	3.8	0.4	1.3	21.7	<0.01	0.02	7.8
YY18156		1.68	17.0	860	75.4	21.1	<0.001	0.02	0.81	4.0	0.4	1.4	18.2	<0.01	0.02	8.0
YY18157		1.61	15.6	830	130.0	28.7	<0.001	0.02	0.98	3.7	0.4	2.3	17.7	<0.01	0.02	8.4
YY18158		1.39	16.1	840	91.0	22.9	<0.001	0.04	0.77	3.6	0.2	2.3	18.6	<0.01	0.02	5.3
YY18159		1.34	15.0	990	70.1	21.0	<0.001	0.03	0.70	3.8	0.3	2.6	21.9	<0.01	0.02	5.7
YY18160		1.17	14.2	850	44.7	21.2	<0.001	0.04	0.74	3.0	0.3	1.0	18.6	<0.01	0.02	4.7



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18121		0.119	0.25	2.97	55	0.28	19.95	99	1.2
YY18122		0.123	0.28	2.16	56	0.25	15.15	67	1.7
YY18123		0.110	0.23	2.20	52	0.27	13.70	61	1.2
YY18124		0.102	0.21	2.23	62	0.26	12.80	67	1.4
YY18125		0.166	0.49	1.49	60	0.21	12.05	72	2.8
YY18126		0.098	0.23	1.52	49	0.19	11.20	74	1.0
YY18127		0.058	0.20	1.60	48	0.16	7.91	49	0.9
YY18128		0.137	0.32	1.62	59	0.27	11.20	78	1.5
YY18129		0.094	0.19	1.09	54	0.21	8.29	80	1.3
YY18130		0.092	0.17	0.77	57	0.20	5.78	79	1.4
YY18131		0.081	0.14	0.90	60	0.22	6.31	68	0.9
YY18132		0.075	0.15	0.87	60	0.25	6.52	76	1.1
YY18133		0.080	0.26	1.14	56	0.31	10.95	203	0.9
YY18134		0.093	0.14	1.45	54	0.21	10.15	62	1.3
YY18135		0.087	0.17	1.80	52	3.35	13.30	70	1.3
YY18136		<0.005	0.47	6.65	3	0.09	3.01	663	0.6
YY18137		0.120	0.50	1.62	62	0.39	12.65	142	1.2
YY18138		0.100	0.19	1.91	57	0.26	12.75	87	1.2
YY18139		0.045	0.16	2.04	40	0.15	16.20	55	0.6
YY18140		0.118	0.26	2.06	62	0.26	12.75	97	1.6
YY18141		0.091	0.24	2.64	56	0.39	13.05	105	1.2
YY18142		0.079	0.26	2.32	52	0.25	13.25	71	0.8
YY18143		0.084	0.25	3.14	49	0.38	23.9	76	0.6
YY18144		0.104	0.26	5.21	54	0.33	33.7	74	1.2
YY18145		0.096	0.18	2.66	54	0.27	17.00	66	1.2
YY18146		0.075	0.21	4.17	55	0.31	21.3	63	0.7
YY18147		0.101	0.19	1.83	58	0.39	10.20	95	0.8
YY18148		0.112	0.27	2.56	74	0.34	20.7	104	1.2
YY18149		0.090	0.21	5.36	48	0.26	23.7	122	0.8
YY18150		0.053	0.23	4.12	46	0.24	15.90	115	<0.5
YY18151		0.085	0.15	2.77	49	0.26	19.10	77	2.1
YY18152		0.076	0.16	2.77	54	0.28	19.35	68	1.1
YY18153		0.086	0.17	2.17	58	0.29	15.95	68	1.2
YY18154		0.085	0.18	5.42	56	0.34	41.8	78	1.4
YY18155		0.080	0.18	3.16	45	0.66	16.70	81	0.8
YY18156		0.091	0.21	1.58	51	0.17	12.25	98	0.9
YY18157		0.103	0.23	1.49	50	0.20	11.30	127	0.9
YY18158		0.083	0.21	1.66	51	0.20	10.50	97	0.7
YY18159		0.090	0.20	1.58	49	0.27	16.70	98	0.8
YY18160		0.078	0.17	2.55	47	0.19	18.45	77	0.7



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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
YY18161		0.57	0.004	0.19	1.33	33.7	<0.02	<10	110	0.54	0.27	0.31	0.60	49.5	7.6	22
YY18162		0.40	0.003	0.18	1.49	30.0	<0.02	<10	90	0.64	0.53	0.29	0.43	49.1	9.0	24
YY18163		0.38	0.002	0.37	1.80	31.5	<0.02	<10	170	0.89	0.55	0.34	0.67	111.0	11.5	27
YY18164		0.35	0.003	0.32	1.81	41.0	<0.02	<10	170	0.89	0.91	0.35	0.63	72.7	9.9	28
YY18165		0.36	0.001	0.15	1.63	23.1	<0.02	<10	140	0.58	0.52	0.32	0.25	41.1	7.1	26
YY18166		0.57	0.004	0.10	1.79	16.2	<0.02	<10	160	0.53	0.24	0.33	0.21	50.0	7.4	26
YY18167		0.40	0.002	0.06	1.76	7.5	<0.02	<10	120	0.57	0.22	0.38	0.15	54.1	9.0	23
YY18168		0.47	0.001	0.11	2.40	9.0	<0.02	<10	140	0.94	0.37	0.39	0.12	56.0	8.6	21
YY18169		0.42	0.001	0.04	1.74	8.8	<0.02	<10	90	0.62	0.12	0.30	0.17	39.4	7.4	21
YY18170		0.38	<0.001	0.05	1.69	13.1	<0.02	<10	100	0.79	0.18	0.20	0.20	48.0	6.6	20
YY18171		0.38	0.003	0.50	1.94	95.5	<0.02	<10	170	0.73	0.31	0.23	0.19	45.8	7.8	31
YY18172		0.58	0.003	0.55	1.83	67.7	<0.02	<10	150	0.55	0.27	0.28	0.34	44.0	7.6	28
YY18173		0.40	0.004	1.21	1.78	155.5	<0.02	<10	180	0.66	0.44	0.29	0.32	37.3	21.0	26
YY18174		0.46	0.003	0.33	1.97	44.7	<0.02	<10	140	0.69	0.29	0.28	0.23	49.7	9.9	28
YY18175		0.42	0.001	0.09	1.38	8.6	<0.02	<10	130	0.41	0.20	0.34	0.17	32.3	5.1	22
YY18176		0.43	0.002	0.09	1.38	21.5	<0.02	<10	130	0.52	0.19	0.31	0.19	39.0	8.1	22
YY18177		0.35	0.002	0.54	1.77	136.0	<0.02	<10	180	0.95	0.37	0.26	0.39	74.5	6.0	26
YY18178		0.34	0.003	0.71	1.76	398	<0.02	<10	120	0.94	0.93	0.17	0.60	49.2	7.7	29
YY18179		0.54	0.004	0.52	1.67	424	<0.02	<10	160	1.16	2.13	0.23	0.69	90.0	9.3	27
YY18180		0.39	0.001	0.20	1.63	81.3	<0.02	<10	110	0.79	0.38	0.17	0.49	43.8	8.5	25
YY18181		0.43	0.001	0.43	1.87	119.0	<0.02	<10	170	0.93	0.39	0.19	0.62	61.1	9.3	30
YY18182		0.35	0.002	0.27	1.73	102.5	0.03	<10	110	0.85	0.38	0.15	0.74	44.5	7.9	27
YY18183		0.44	0.010	1.03	1.77	418	<0.02	<10	100	0.92	2.82	0.21	0.98	49.3	9.7	26
YY18184		0.40	0.004	0.87	1.98	337	<0.02	<10	130	1.28	1.25	0.21	0.82	84.7	7.9	26
YY18185		0.40	0.011	1.40	1.80	346	<0.02	<10	90	0.82	2.26	0.21	0.99	68.3	10.0	26
YY18186		0.42	0.003	0.31	2.05	31.0	<0.02	<10	160	0.78	0.44	0.44	0.32	66.9	15.1	32
YY18187		0.46	0.002	0.17	1.80	13.0	<0.02	<10	140	0.63	0.58	0.39	0.26	68.3	11.8	31
YY18188		0.33	0.006	0.07	1.84	14.5	<0.02	<10	140	0.53	0.24	0.18	0.42	40.1	10.5	27
YY18189		0.33	0.001	0.41	2.36	14.9	<0.02	<10	160	0.59	0.33	0.11	0.30	31.2	8.2	30
YY18190		0.43	0.002	0.07	1.74	29.7	<0.02	<10	90	0.75	0.65	0.28	0.43	44.3	9.7	22
YY18191		0.39	0.002	0.23	1.48	35.6	<0.02	<10	60	0.57	0.78	0.11	0.25	39.1	4.8	20
YY18192		0.37	0.006	0.05	1.96	12.9	<0.02	<10	130	0.50	0.26	0.14	0.23	31.1	6.6	27
YY18193		0.38	0.004	0.26	2.67	26.8	<0.02	<10	180	1.05	0.52	0.22	0.35	76.3	11.7	34
YY18194		0.39	0.001	0.14	2.32	23.6	<0.02	<10	170	0.88	0.35	0.15	0.54	37.9	13.5	29
YY18195		0.43	0.003	0.46	1.83	43.4	<0.02	<10	170	0.73	0.52	0.25	0.46	67.6	9.5	24
YY18196		0.39	0.004	0.93	1.53	150.0	<0.02	<10	100	0.87	0.79	0.24	1.54	78.6	9.9	23
YY18197		0.43	0.001	0.17	1.75	62.4	<0.02	<10	120	0.80	0.89	0.22	0.58	65.9	11.6	26
YY18198		0.42	0.004	0.81	1.59	131.0	<0.02	<10	100	0.86	0.83	0.25	0.89	57.7	12.4	27
YY18199		0.61	0.002	0.25	1.27	73.3	<0.02	<10	90	0.52	0.39	0.32	0.85	50.6	9.0	21
YY18200		0.47	0.002	0.73	1.90	141.5	<0.02	<10	140	0.81	0.43	0.25	0.63	43.4	12.0	27



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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
YY18161		2.32	11.8	2.17	5.42	0.09	0.02	0.03	0.028	0.14	45.1	15.4	0.49	383	0.72	0.02
YY18162		2.10	13.3	2.36	6.01	0.08	0.03	0.03	0.025	0.14	25.6	16.9	0.50	694	0.80	0.02
YY18163		2.75	22.1	2.55	7.42	0.13	0.03	0.06	0.049	0.15	55.6	17.2	0.52	1080	1.16	0.02
YY18164		2.84	19.8	2.72	7.39	0.11	0.02	0.04	0.042	0.15	38.0	18.4	0.53	894	1.24	0.02
YY18165		2.97	10.3	2.52	7.16	0.07	0.02	0.04	0.027	0.20	21.3	14.8	0.50	388	0.87	0.01
YY18166		1.66	19.6	2.61	6.36	0.08	0.03	0.04	0.028	0.13	24.3	17.0	0.64	170	0.56	0.02
YY18167		2.73	13.8	2.55	6.89	0.09	0.04	0.02	0.028	0.22	28.1	20.0	0.81	278	0.55	0.02
YY18168		6.93	20.6	3.41	10.10	0.10	0.03	0.02	0.039	0.57	30.5	29.3	1.27	267	0.94	0.02
YY18169		2.65	12.7	2.48	5.41	0.06	0.04	0.17	0.022	0.19	20.3	19.2	0.61	232	0.53	0.02
YY18170		5.35	12.1	3.08	7.70	0.07	0.02	0.02	0.026	0.26	22.1	19.0	0.64	255	0.71	0.01
YY18171		2.97	17.4	2.66	7.76	0.07	0.02	0.06	0.035	0.11	24.5	17.8	0.53	394	1.33	0.02
YY18172		2.33	17.7	2.28	7.00	0.06	0.02	0.05	0.034	0.11	22.5	16.8	0.53	205	1.12	0.02
YY18173		2.26	16.5	2.66	6.65	0.05	0.02	0.05	0.044	0.10	18.4	14.9	0.47	1380	1.87	0.02
YY18174		3.02	14.2	2.56	7.70	0.07	0.02	0.05	0.036	0.13	25.4	19.0	0.60	326	0.90	0.02
YY18175		1.77	8.6	1.75	5.71	0.07	0.02	0.03	0.021	0.12	16.6	14.8	0.53	145	0.40	0.02
YY18176		1.76	9.5	2.21	6.39	0.07	0.02	0.02	0.025	0.11	20.2	15.4	0.49	359	0.73	0.02
YY18177		2.13	33.6	2.54	7.53	0.10	0.02	0.05	0.038	0.11	38.9	14.5	0.42	336	1.76	0.02
YY18178		2.02	40.6	3.03	6.67	0.06	0.02	0.05	0.048	0.12	25.0	17.6	0.47	361	1.53	0.02
YY18179		2.41	44.5	3.11	7.35	0.09	0.02	0.05	0.053	0.18	47.9	20.1	0.53	489	2.28	0.02
YY18180		1.73	14.6	2.65	6.20	<0.05	0.02	0.05	0.037	0.08	22.2	17.4	0.42	463	1.33	0.02
YY18181		2.50	20.8	3.22	8.46	0.07	0.02	0.04	0.040	0.13	31.5	19.0	0.53	536	2.02	0.02
YY18182		1.87	17.5	3.27	7.73	0.05	0.02	0.05	0.044	0.10	21.7	20.4	0.45	376	1.54	0.01
YY18183		1.83	21.7	2.89	6.14	0.06	0.02	0.05	0.050	0.13	24.7	18.1	0.47	462	1.14	0.01
YY18184		3.14	23.9	3.13	7.58	0.09	0.02	0.05	0.068	0.18	48.2	20.5	0.56	471	1.81	0.01
YY18185		2.97	37.1	3.65	6.97	0.07	<0.02	0.07	0.285	0.15	33.4	18.1	0.52	470	1.48	0.01
YY18186		3.62	30.8	3.55	6.26	0.10	0.05	0.08	0.059	0.31	34.9	25.5	0.86	696	1.11	0.02
YY18187		1.76	47.3	2.74	5.70	0.09	0.03	0.03	0.030	0.12	36.7	16.7	0.56	509	0.83	0.02
YY18188		1.40	20.8	2.78	5.66	<0.05	0.02	0.03	0.028	0.07	15.7	15.4	0.49	470	0.95	0.01
YY18189		1.22	17.6	2.88	7.46	<0.05	0.04	0.05	0.030	0.04	14.7	12.5	0.38	281	1.83	0.01
YY18190		1.57	18.7	2.56	5.64	0.05	0.03	0.03	0.037	0.08	24.7	17.4	0.42	414	0.79	0.01
YY18191		1.54	16.8	2.28	7.08	0.05	<0.02	0.04	0.039	0.05	20.6	12.0	0.26	199	1.12	0.01
YY18192		1.30	15.4	3.14	7.45	<0.05	0.02	0.04	0.030	0.05	14.8	13.1	0.33	262	1.17	0.01
YY18193		2.49	24.6	3.38	7.35	0.09	0.06	0.06	0.050	0.12	53.2	21.6	0.65	370	0.94	0.01
YY18194		1.52	21.4	2.96	6.62	<0.05	0.09	0.04	0.038	0.08	17.6	17.8	0.48	418	0.99	0.01
YY18195		2.18	22.4	2.71	6.41	0.08	0.03	0.02	0.048	0.17	36.5	18.0	0.56	411	0.81	0.01
YY18196		3.09	30.1	2.67	5.82	0.08	0.02	0.06	0.091	0.11	39.7	14.2	0.42	425	1.32	0.02
YY18197		3.41	22.8	2.88	6.61	0.09	0.02	0.03	0.058	0.16	34.3	19.1	0.51	591	1.08	0.02
YY18198		3.41	31.1	2.93	6.41	0.07	0.02	0.08	0.182	0.14	29.5	17.3	0.49	486	1.33	0.02
YY18199		2.12	17.7	2.45	5.61	0.08	0.04	0.03	0.061	0.16	23.7	17.3	0.50	345	0.75	0.01
YY18200		2.73	20.4	3.08	7.23	0.06	0.02	0.05	0.050	0.12	22.3	20.6	0.52	544	1.49	0.01



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY18161		1.33	14.7	890	64.5	20.9	<0.001	0.01	0.73	3.0	<0.2	1.1	18.1	<0.01	0.02	7.2
YY18162		1.67	15.6	910	41.0	23.1	<0.001	0.01	0.65	3.2	0.4	1.4	17.1	<0.01	0.02	8.3
YY18163		1.56	16.5	860	118.5	29.8	<0.001	0.06	0.87	4.4	0.4	2.0	24.1	<0.01	0.03	4.3
YY18164		1.43	18.4	740	71.8	25.8	<0.001	0.04	0.90	3.8	0.2	1.4	25.7	<0.01	0.03	4.4
YY18165		1.81	13.2	930	34.3	32.4	<0.001	0.04	0.66	3.1	<0.2	1.3	20.0	<0.01	0.02	4.3
YY18166		1.95	19.3	830	12.2	22.6	<0.001	0.02	0.57	4.3	0.3	1.0	20.5	<0.01	0.02	7.3
YY18167		2.06	16.1	990	9.9	36.0	<0.001	0.01	0.37	3.7	<0.2	1.4	21.3	<0.01	0.02	13.0
YY18168		3.24	13.9	760	13.6	79.0	<0.001	0.02	0.51	3.8	0.2	3.0	20.6	<0.01	0.02	10.3
YY18169		2.25	15.8	830	7.9	26.6	<0.001	0.01	0.41	2.8	0.3	0.7	16.7	<0.01	0.02	8.6
YY18170		2.12	13.6	730	10.4	34.6	<0.001	0.03	0.49	2.4	0.3	1.3	14.9	<0.01	0.03	4.2
YY18171		1.25	15.9	1190	87.5	22.0	<0.001	0.11	1.03	2.8	0.2	1.1	19.1	<0.01	0.03	1.7
YY18172		1.55	16.3	920	112.0	20.9	<0.001	0.04	2.02	3.7	0.4	1.2	18.4	<0.01	0.02	4.8
YY18173		1.14	14.5	1110	317	18.3	<0.001	0.06	2.66	2.9	0.5	1.2	19.4	<0.01	0.03	2.5
YY18174		1.67	16.3	980	85.8	24.3	<0.001	0.03	1.21	4.1	0.2	1.7	18.2	<0.01	0.01	6.6
YY18175		1.92	13.4	750	21.3	19.7	<0.001	0.01	0.46	3.1	<0.2	1.3	20.0	<0.01	0.01	7.2
YY18176		1.70	13.5	830	23.5	17.7	<0.001	0.02	0.59	3.0	<0.2	1.5	18.3	<0.01	0.02	5.9
YY18177		1.52	15.2	850	63.3	20.2	<0.001	0.07	0.88	2.9	0.3	1.1	23.5	<0.01	0.04	2.3
YY18178		1.54	18.0	600	84.9	22.7	<0.001	0.05	1.31	3.2	0.4	1.2	15.9	<0.01	0.05	5.6
YY18179		1.79	18.5	630	128.5	30.5	<0.001	0.05	1.59	4.2	0.4	1.3	21.5	<0.01	0.04	10.2
YY18180		1.87	16.2	630	61.0	18.6	<0.001	0.04	0.78	3.0	0.4	1.2	14.1	<0.01	0.02	7.9
YY18181		2.24	20.4	690	72.4	28.1	<0.001	0.06	1.01	3.3	0.4	1.6	21.3	<0.01	0.04	4.9
YY18182		2.42	19.0	570	117.5	22.8	<0.001	0.04	1.40	3.2	0.3	1.3	13.4	<0.01	0.05	6.0
YY18183		1.63	19.4	770	336	23.2	<0.001	0.08	3.54	3.2	0.3	1.3	16.8	<0.01	0.04	6.9
YY18184		2.03	16.9	750	202	30.8	<0.001	0.05	2.04	3.6	0.5	1.8	19.8	<0.01	0.04	10.0
YY18185		0.92	17.9	1000	865	22.5	<0.001	0.09	15.15	2.5	0.4	1.0	16.8	<0.01	0.03	3.1
YY18186		0.89	30.4	1030	104.5	45.1	<0.001	0.02	2.12	5.5	0.4	0.6	29.5	<0.01	0.03	6.8
YY18187		1.21	25.3	930	19.3	22.1	<0.001	0.02	0.75	5.0	0.4	0.7	27.0	<0.01	0.03	6.5
YY18188		1.35	25.2	400	31.0	17.2	<0.001	0.03	0.73	2.8	0.3	0.6	15.6	<0.01	0.03	2.2
YY18189		1.73	20.8	350	24.5	10.5	<0.001	0.03	0.87	3.3	0.5	0.7	12.9	0.01	0.04	3.6
YY18190		1.37	19.9	1030	56.9	14.7	<0.001	0.03	2.32	2.7	0.2	0.6	15.4	<0.01	0.03	6.0
YY18191		1.15	12.2	460	53.8	12.6	<0.001	0.03	2.44	2.1	0.4	0.9	10.2	<0.01	0.02	2.8
YY18192		1.55	16.9	400	16.2	11.1	<0.001	0.03	0.70	2.8	0.4	0.8	13.2	0.01	0.03	2.7
YY18193		2.03	25.9	860	36.4	24.1	<0.001	0.03	1.25	4.7	0.5	0.9	17.8	<0.01	0.04	10.6
YY18194		1.77	24.1	590	27.9	19.1	<0.001	0.02	0.93	4.1	0.5	0.7	15.3	<0.01	0.04	7.8
YY18195		1.48	20.3	880	57.4	29.9	<0.001	0.02	1.95	3.6	0.5	0.9	17.7	<0.01	0.02	7.4
YY18196		0.92	18.2	920	193.0	20.4	<0.001	0.06	3.98	2.5	0.3	0.7	18.5	<0.01	0.03	3.7
YY18197		1.36	19.9	940	89.4	27.3	<0.001	0.02	1.74	3.1	0.3	0.8	14.1	<0.01	0.02	4.7
YY18198		1.20	20.5	1060	230	23.5	<0.001	0.04	3.02	3.2	0.5	0.8	16.1	<0.01	0.03	4.5
YY18199		1.36	19.2	1090	94.4	26.3	<0.001	0.01	2.15	3.2	0.5	0.7	17.8	<0.01	0.02	8.8
YY18200		1.47	20.0	1020	179.5	25.6	<0.001	0.03	3.10	3.3	0.4	0.8	17.7	<0.01	0.03	3.6



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18161		0.086	0.15	1.55	44	0.30	11.10	124	0.9
YY18162		0.092	0.18	1.68	47	0.21	11.95	108	1.0
YY18163		0.086	0.24	3.40	53	0.22	30.1	113	1.0
YY18164		0.084	0.18	2.62	54	0.19	19.85	133	0.8
YY18165		0.088	0.21	1.47	51	0.18	11.30	81	0.7
YY18166		0.103	0.17	1.70	58	0.26	12.60	60	1.4
YY18167		0.116	0.24	1.82	44	0.21	13.40	58	1.5
YY18168		0.131	0.57	2.29	43	0.24	14.50	60	1.1
YY18169		0.107	0.24	1.06	43	0.28	9.75	49	1.4
YY18170		0.103	0.28	1.63	47	0.19	10.75	48	0.7
YY18171		0.072	0.25	2.75	53	0.37	11.10	75	0.8
YY18172		0.089	0.20	1.75	51	0.43	10.15	87	0.9
YY18173		0.073	0.22	1.71	51	0.34	8.77	89	0.7
YY18174		0.089	0.22	1.66	49	0.32	12.45	78	0.7
YY18175		0.097	0.15	0.85	37	0.26	8.45	55	1.0
YY18176		0.089	0.15	1.04	43	0.35	9.79	64	0.7
YY18177		0.069	0.20	4.39	51	0.26	17.70	91	0.8
YY18178		0.086	0.24	2.73	56	0.32	10.55	105	0.7
YY18179		0.089	0.28	5.16	53	0.23	21.6	122	0.8
YY18180		0.080	0.20	1.98	52	0.26	8.74	83	0.8
YY18181		0.093	0.25	2.92	65	0.28	15.20	115	0.8
YY18182		0.096	0.19	1.70	63	0.32	9.30	112	0.9
YY18183		0.079	0.24	1.85	54	0.44	9.99	113	0.7
YY18184		0.072	0.28	4.37	49	0.30	23.5	200	0.5
YY18185		0.075	0.30	2.13	51	0.32	12.15	242	0.5
YY18186		0.153	0.36	2.49	64	0.26	20.3	114	2.4
YY18187		0.115	0.21	1.75	54	0.21	21.2	75	1.5
YY18188		0.098	0.15	0.72	61	0.31	6.03	77	0.9
YY18189		0.073	0.20	0.84	72	0.29	4.38	61	1.5
YY18190		0.081	0.17	1.57	50	0.29	12.40	79	1.1
YY18191		0.060	0.18	1.94	51	0.25	8.02	78	<0.5
YY18192		0.093	0.14	0.75	72	0.24	5.27	50	0.7
YY18193		0.098	0.27	3.04	56	0.25	14.95	95	2.2
YY18194		0.083	0.20	1.47	56	0.22	6.55	72	3.5
YY18195		0.089	0.26	2.30	45	0.21	14.50	103	0.9
YY18196		0.066	0.25	3.23	44	0.17	20.9	172	0.7
YY18197		0.090	0.24	2.49	49	0.29	18.85	158	0.7
YY18198		0.079	0.24	2.91	49	0.26	18.50	183	0.6
YY18199		0.092	0.20	1.46	45	0.23	14.15	111	1.5
YY18200		0.079	0.24	2.04	54	0.33	12.10	104	0.6



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	CERTIFICATE COMMENTS
	<p style="text-align: center;">ANALYTICAL COMMENTS</p> <p>Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g). ME-MS41</p> <p style="text-align: center;">LABORATORY ADDRESSES</p> <p>Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada. LOG-22 SCR-41 WEI-21</p> <p>Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. Au-ICP21 ME-MS41</p>



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This report is for 200 Soil samples submitted to our lab in Whitehorse, YT, Canada on 10-AUG-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	JULIA LANE	
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	Ultra Trace Aqua Regia ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
YY18201		0.43	0.005	0.51	1.59	101.0	<0.02	<10	110	0.51	0.36	0.32	0.36	37.3	6.9	26
YY18202		0.60	0.003	0.63	1.94	86.5	<0.02	<10	120	0.67	0.32	0.27	0.28	40.0	7.4	29
YY18203		0.52	0.003	0.14	1.36	13.9	<0.02	<10	100	0.66	0.22	0.35	0.36	42.4	8.1	26
YY18204		0.45	0.043	0.34	1.66	37.7	0.02	<10	100	0.76	0.29	0.30	0.17	48.5	11.5	26
YY18205		0.44	0.002	0.07	1.64	9.6	<0.02	<10	120	0.72	0.23	0.30	0.19	42.1	7.6	29
YY18206		0.37	0.033	1.82	1.52	549	0.03	<10	80	0.75	0.55	0.33	0.11	55.7	7.6	22
YY18207		0.47	0.002	0.07	2.05	9.9	<0.02	<10	120	0.97	0.28	0.21	0.17	42.8	8.3	25
YY18208		0.34	<0.001	0.13	2.29	13.2	<0.02	<10	80	0.67	0.27	0.10	0.18	32.8	5.7	26
YY18209		0.36	0.002	0.14	1.90	26.2	<0.02	<10	110	0.83	0.22	0.19	0.23	40.8	9.5	25
YY18210		0.38	0.001	0.07	1.95	13.5	<0.02	<10	90	0.66	0.17	0.16	0.27	33.7	7.3	27
YY18211		0.39	<0.001	0.03	1.60	10.8	<0.02	<10	80	0.51	0.21	0.24	0.21	37.6	5.7	22
YY18212		0.44	0.001	0.05	2.00	28.0	0.02	<10	90	0.82	0.23	0.25	0.20	50.5	10.2	24
YY18213		0.31	0.001	0.05	2.03	14.5	<0.02	<10	110	0.87	0.20	0.22	0.22	46.7	9.1	23
YY18214		0.40	0.002	0.13	1.85	40.0	<0.02	<10	110	0.71	3.26	0.18	0.38	40.4	9.6	32
YY18215		0.34	0.001	0.19	2.29	18.8	<0.02	<10	110	0.94	1.12	0.21	0.30	44.9	9.6	30
YY18216		0.38	0.001	0.31	1.76	33.9	<0.02	<10	120	0.93	2.21	0.22	0.40	51.6	7.4	26
YY18217		0.42	0.002	0.13	1.38	17.2	<0.02	<10	100	0.48	0.96	0.19	0.21	33.5	6.4	27
YY18218		0.39	0.005	2.05	1.71	83.3	<0.02	<10	160	1.15	6.60	0.38	0.66	80.7	8.3	27
YY18219		0.39	0.003	0.63	2.47	38.1	<0.02	<10	200	1.35	1.28	0.21	0.50	72.4	13.0	40
YY18220		0.43	<0.001	0.18	1.57	18.8	<0.02	<10	120	0.71	1.22	0.25	0.30	50.2	8.2	23
YY18221		0.52	0.002	0.34	1.79	47.7	<0.02	<10	150	1.01	1.09	0.24	0.25	79.0	11.3	26
YY18222		0.32	0.004	0.34	1.62	54.9	<0.02	<10	160	0.91	1.33	0.24	0.27	106.5	15.6	22
YY18223		0.44	0.001	0.16	1.74	30.1	<0.02	<10	140	0.81	1.01	0.21	0.24	63.1	7.2	25
YY18224		0.31	0.008	0.34	1.52	39.3	<0.02	<10	190	0.82	0.56	0.24	0.32	126.0	7.1	20
YY18225		0.40	0.009	5.38	1.81	293	<0.02	<10	150	1.03	0.85	0.26	3.99	86.4	6.6	25
YY18226		0.35	<0.001	0.09	2.01	59.4	<0.02	<10	100	1.23	0.50	0.12	0.61	107.5	7.5	23
YY18227		0.35	0.001	0.70	1.41	33.8	<0.02	<10	140	0.75	0.49	0.12	1.47	89.9	5.2	18
YY18228		0.46	0.003	0.27	1.97	95.6	<0.02	<10	110	1.40	0.78	0.22	0.42	185.0	5.7	24
YY18229		0.44	0.002	0.17	1.32	115.0	<0.02	<10	120	0.97	0.75	0.23	1.53	107.5	6.1	21
YY18230		0.53	0.004	0.93	1.44	55.3	<0.02	<10	140	0.67	0.83	0.34	0.92	81.9	6.6	23
YY18231		0.48	0.004	0.72	1.80	115.0	<0.02	<10	160	0.81	0.54	0.26	0.93	61.4	9.7	28
YY18232		0.36	0.004	0.79	1.85	141.5	<0.02	<10	120	1.11	1.37	0.19	1.56	104.5	8.9	29
YY18233		0.35	0.004	0.74	2.41	102.0	<0.02	<10	170	1.14	0.62	0.19	1.49	111.0	10.0	33
YY18234		0.50	0.004	0.84	1.85	131.0	<0.02	<10	130	0.96	0.51	0.20	1.36	70.1	8.5	27
YY18235		0.29	0.005	0.75	1.65	97.7	<0.02	<10	170	0.92	0.57	0.27	0.88	114.5	8.4	26
YY18236		0.42	0.004	0.24	1.45	34.0	<0.02	<10	160	0.64	0.96	0.23	0.70	55.9	7.2	26
YY18237		0.42	0.005	0.49	1.73	39.1	<0.02	<10	160	0.81	1.31	0.23	0.66	74.1	7.3	30
YY18238		0.42	0.001	0.70	1.46	53.5	<0.02	<10	120	1.18	3.91	0.24	0.56	103.0	7.2	21
YY18239		0.33	0.004	3.13	1.95	136.0	<0.02	<10	140	1.12	31.2	0.25	0.45	115.5	7.5	27
YY18240		0.39	0.003	0.78	1.87	58.0	<0.02	<10	140	1.10	2.49	0.21	1.00	69.7	7.6	27



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
YY18201		2.78	16.9	2.46	6.90	0.07	0.03	0.04	0.031	0.20	18.7	17.5	0.60	296	1.12	0.01
YY18202		3.76	17.8	2.75	7.11	0.08	0.02	0.07	0.037	0.15	20.4	17.5	0.62	240	1.12	0.01
YY18203		1.61	15.7	2.47	5.77	0.08	0.02	0.02	0.026	0.10	20.7	14.1	0.49	342	0.84	0.02
YY18204		2.86	15.3	2.65	6.73	0.09	0.03	0.07	0.034	0.12	29.4	15.0	0.51	255	1.96	0.02
YY18205		3.06	15.2	2.79	7.42	0.08	0.02	0.04	0.022	0.19	21.5	16.5	0.60	301	0.88	0.01
YY18206		3.00	18.6	2.58	6.46	0.09	0.02	0.04	0.037	0.18	28.5	15.1	0.57	226	1.01	0.01
YY18207		2.82	14.9	2.87	7.37	0.06	0.02	0.04	0.024	0.14	21.2	21.5	0.59	311	0.78	0.01
YY18208		2.40	13.5	3.50	9.30	<0.05	0.03	0.06	0.032	0.07	15.5	23.4	0.38	219	1.15	0.01
YY18209		2.06	18.1	2.80	6.62	0.07	0.04	0.03	0.024	0.12	19.8	17.4	0.57	369	1.06	0.01
YY18210		1.54	15.7	2.76	6.79	0.05	0.03	0.05	0.029	0.09	16.7	16.2	0.43	285	0.88	0.01
YY18211		2.66	10.6	2.51	6.68	0.07	0.03	0.04	0.021	0.19	18.3	16.2	0.52	259	0.65	0.01
YY18212		2.69	14.5	2.78	6.68	0.09	0.04	0.03	0.022	0.27	25.0	19.6	0.64	313	0.65	0.01
YY18213		3.45	14.0	3.35	8.85	0.10	0.03	0.05	0.037	0.27	21.8	27.8	0.74	337	0.80	0.01
YY18214		2.39	19.6	3.46	9.46	0.07	0.02	0.02	0.063	0.16	17.9	21.5	0.72	582	1.42	0.01
YY18215		1.91	21.7	2.90	7.70	0.09	0.03	0.05	0.043	0.11	30.1	19.9	0.59	334	0.96	0.01
YY18216		2.01	22.6	2.75	6.91	0.08	0.02	0.04	0.039	0.11	27.4	16.3	0.50	262	0.88	0.02
YY18217		1.42	12.4	2.59	7.27	0.06	0.02	0.03	0.028	0.10	17.7	12.7	0.44	256	1.05	0.01
YY18218		2.67	26.2	2.75	7.37	0.14	0.03	0.05	0.041	0.14	45.6	17.3	0.59	397	0.98	0.02
YY18219		2.47	25.4	3.64	10.30	0.10	0.03	0.06	0.048	0.15	36.1	24.4	0.66	719	1.18	0.02
YY18220		1.99	16.1	2.31	6.53	0.07	0.02	0.03	0.030	0.10	24.9	17.4	0.50	409	0.59	0.02
YY18221		2.10	19.1	2.96	9.45	0.10	0.02	0.03	0.047	0.12	41.4	17.4	0.44	768	1.57	0.01
YY18222		1.93	15.8	2.76	9.31	0.11	0.02	0.05	0.049	0.13	47.1	15.2	0.42	2330	1.69	0.02
YY18223		1.93	15.6	2.54	8.27	0.09	0.02	0.03	0.047	0.15	35.8	17.1	0.45	364	1.18	0.02
YY18224		1.50	16.1	2.11	6.66	0.12	0.02	0.05	0.038	0.08	45.6	12.2	0.35	522	1.12	0.02
YY18225		2.06	42.5	2.84	7.60	0.12	0.02	0.03	0.080	0.13	44.7	19.7	0.48	349	1.82	0.01
YY18226		2.42	14.5	2.99	9.53	0.13	0.03	0.05	0.078	0.17	53.4	19.6	0.35	626	1.62	0.01
YY18227		1.34	14.8	1.90	6.71	0.14	0.03	0.03	0.026	0.09	71.6	12.2	0.29	232	1.20	0.02
YY18228		3.06	14.5	3.08	12.00	0.35	0.05	0.03	0.109	0.24	150.5	19.4	0.42	236	2.19	0.01
YY18229		2.26	15.2	2.64	8.33	0.14	0.02	0.02	0.066	0.14	61.9	13.1	0.33	505	1.59	0.01
YY18230		1.84	23.3	2.40	7.11	0.14	0.04	0.04	0.045	0.13	44.1	14.5	0.45	296	0.95	0.02
YY18231		1.90	17.6	2.96	8.49	0.08	0.02	0.04	0.062	0.13	33.1	17.7	0.45	717	1.54	0.02
YY18232		2.35	16.5	3.11	8.03	0.13	0.02	0.05	0.064	0.13	55.6	17.9	0.44	653	2.33	0.01
YY18233		1.86	21.5	3.27	8.38	0.10	0.02	0.07	0.057	0.12	42.0	20.8	0.49	726	1.66	0.02
YY18234		1.96	16.8	2.84	8.10	0.10	0.02	0.05	0.058	0.12	39.3	19.0	0.43	677	1.72	0.02
YY18235		2.18	18.1	2.54	7.96	0.16	0.03	0.04	0.058	0.12	61.8	15.4	0.41	721	1.83	0.02
YY18236		1.42	13.3	2.51	7.51	0.07	0.02	0.03	0.041	0.10	30.3	14.1	0.41	445	1.02	0.02
YY18237		1.82	14.4	2.69	8.60	0.10	0.02	0.05	0.042	0.11	42.2	15.8	0.44	466	1.23	0.01
YY18238		2.75	11.2	2.55	7.72	0.18	0.02	0.03	0.057	0.12	72.4	15.1	0.35	499	1.18	0.02
YY18239		2.15	20.0	3.05	9.37	0.16	0.02	0.05	0.068	0.13	69.9	17.7	0.44	408	1.77	0.02
YY18240		1.82	16.5	2.76	8.13	0.09	0.02	0.06	0.049	0.11	42.3	18.5	0.42	463	1.23	0.01



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
YY18201		1.71	15.3	990	76.5	31.9	<0.001	0.05	2.22	3.2	<0.2	1.0	18.6	<0.01	0.02	4.3
YY18202		1.29	15.4	880	158.0	24.5	<0.001	0.04	1.53	3.4	0.4	1.0	16.9	<0.01	0.01	3.3
YY18203		1.35	17.0	1000	53.5	14.5	<0.001	0.03	0.61	3.0	0.2	0.8	20.5	<0.01	0.02	5.2
YY18204		1.23	15.5	990	59.9	18.7	<0.001	0.05	0.73	3.2	0.3	1.3	22.1	<0.01	0.07	4.6
YY18205		1.61	15.1	920	14.0	26.1	<0.001	0.04	0.51	3.2	<0.2	1.6	19.5	<0.01	0.02	5.0
YY18206		1.29	13.2	1100	470	25.5	<0.001	0.06	1.29	2.8	0.3	1.8	19.5	<0.01	0.03	6.0
YY18207		1.91	15.9	700	13.8	28.0	<0.001	0.03	0.47	3.2	0.3	1.1	13.8	<0.01	0.02	5.1
YY18208		2.42	13.4	520	15.5	14.9	<0.001	0.04	0.57	3.0	0.4	1.5	10.4	<0.01	0.03	3.9
YY18209		1.59	19.3	600	36.6	21.2	<0.001	0.03	0.74	3.4	0.2	1.1	13.9	<0.01	0.03	5.7
YY18210		1.73	16.2	580	23.2	15.9	<0.001	0.05	0.54	2.7	0.2	0.8	11.7	<0.01	0.03	2.9
YY18211		1.99	13.2	750	21.6	23.8	<0.001	0.03	0.42	2.4	<0.2	0.8	13.9	<0.01	0.02	4.7
YY18212		2.36	16.8	860	50.9	35.4	<0.001	0.03	0.52	3.2	0.2	0.8	13.9	<0.01	0.03	9.8
YY18213		2.55	17.1	810	13.8	42.2	<0.001	0.04	0.48	3.2	0.3	1.4	16.3	<0.01	0.03	5.2
YY18214		2.19	17.4	480	93.6	26.0	<0.001	0.03	1.12	4.2	<0.2	6.0	15.3	<0.01	0.07	5.6
YY18215		1.67	19.7	690	44.3	19.5	<0.001	0.03	0.98	3.9	0.3	3.6	14.6	<0.01	0.08	5.6
YY18216		1.28	15.1	620	65.7	19.3	<0.001	0.05	1.44	2.8	0.3	2.8	19.1	<0.01	0.08	2.6
YY18217		1.48	13.7	520	22.0	15.4	<0.001	0.04	0.83	2.8	0.3	2.4	17.1	<0.01	0.04	2.8
YY18218		1.45	18.3	840	201	22.9	<0.001	0.04	1.03	4.3	0.3	2.7	28.6	<0.01	0.09	5.6
YY18219		1.67	24.9	860	79.9	27.3	<0.001	0.06	1.10	4.7	0.4	3.0	21.4	<0.01	0.05	4.0
YY18220		1.56	17.1	710	35.9	18.5	<0.001	0.02	0.83	3.1	0.4	2.4	17.0	<0.01	0.03	6.0
YY18221		2.28	15.1	730	46.2	22.4	<0.001	0.04	1.58	3.8	0.5	3.6	21.5	<0.01	0.04	4.8
YY18222		2.83	13.2	660	68.6	24.4	0.001	0.05	1.59	4.3	0.3	3.8	20.1	<0.01	0.02	5.7
YY18223		3.35	15.9	580	24.4	29.4	<0.001	0.02	1.08	4.2	0.3	3.1	17.3	<0.01	0.01	7.8
YY18224		1.38	12.0	840	40.2	13.2	0.001	0.06	1.24	2.6	0.6	1.7	21.4	<0.01	0.03	1.6
YY18225		2.63	19.1	520	1390	26.4	<0.001	0.03	13.75	4.3	0.4	1.4	21.9	<0.01	0.03	9.5
YY18226		5.25	16.4	380	34.9	36.7	<0.001	0.02	1.36	4.2	0.3	8.5	11.7	<0.01	0.03	13.9
YY18227		1.82	11.5	310	114.0	18.7	0.001	0.02	1.64	2.5	0.4	1.0	15.2	<0.01	0.03	2.7
YY18228		6.37	14.2	650	47.3	48.6	0.001	0.02	1.98	6.7	0.7	12.0	17.5	0.01	0.02	19.2
YY18229		3.18	12.8	500	96.3	29.6	<0.001	0.03	7.34	3.7	0.3	4.9	19.9	<0.01	0.02	8.8
YY18230		3.99	15.4	670	293	23.2	<0.001	0.01	3.79	4.5	<0.2	2.1	23.6	<0.01	0.01	14.0
YY18231		3.48	18.2	580	260	26.2	<0.001	0.03	3.70	4.5	0.2	2.9	20.3	<0.01	0.03	8.0
YY18232		2.83	18.3	490	172.0	25.3	<0.001	0.03	3.65	4.5	0.7	1.9	17.7	<0.01	0.03	8.2
YY18233		2.77	26.5	550	103.0	23.7	<0.001	0.03	2.27	4.7	<0.2	1.7	17.4	<0.01	0.02	8.2
YY18234		3.06	19.1	570	167.0	25.0	<0.001	0.03	3.33	3.8	0.3	1.8	17.7	<0.01	0.02	7.0
YY18235		3.01	16.6	690	154.0	25.4	0.001	0.04	3.32	4.6	0.6	2.0	23.0	<0.01	0.02	6.2
YY18236		2.30	16.7	580	60.8	19.2	<0.001	0.03	1.47	3.1	0.4	2.2	19.7	<0.01	0.02	4.2
YY18237		2.47	17.3	630	70.1	22.7	<0.001	0.04	2.13	3.7	0.3	2.7	20.5	<0.01	0.04	4.0
YY18238		3.47	14.6	680	122.0	23.7	<0.001	0.02	2.19	3.5	<0.2	3.0	18.2	<0.01	0.08	10.2
YY18239		2.92	17.2	680	211	24.8	<0.001	0.04	3.70	4.4	0.4	3.1	20.8	<0.01	0.09	7.0
YY18240		2.66	19.3	460	82.8	22.3	<0.001	0.02	2.43	3.7	<0.2	2.8	17.4	<0.01	0.05	4.9

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18201		0.096	0.27	1.47	49	0.30	10.20	116	1.0
YY18202		0.078	0.22	2.29	51	0.62	11.80	109	0.6
YY18203		0.092	0.13	1.10	55	0.41	10.85	77	1.0
YY18204		0.077	0.18	2.10	53	6.61	13.90	74	0.8
YY18205		0.105	0.22	1.43	61	0.51	11.70	56	1.0
YY18206		0.076	0.23	1.74	45	0.28	15.90	52	0.5
YY18207		0.098	0.21	1.18	55	0.20	10.95	56	1.0
YY18208		0.085	0.16	0.73	65	0.24	5.68	43	1.0
YY18209		0.095	0.22	1.16	55	0.25	9.75	70	1.3
YY18210		0.087	0.16	0.90	57	0.21	6.75	54	1.1
YY18211		0.098	0.21	0.79	46	0.17	7.98	58	1.0
YY18212		0.104	0.32	1.54	43	0.20	12.50	67	1.5
YY18213		0.113	0.33	1.47	51	0.27	11.55	56	1.1
YY18214		0.140	0.22	1.60	71	0.31	7.67	140	1.3
YY18215		0.092	0.18	2.20	56	0.22	13.15	101	1.2
YY18216		0.079	0.21	2.13	51	0.20	12.50	91	0.6
YY18217		0.094	0.15	1.22	61	0.23	8.10	66	1.0
YY18218		0.091	0.23	2.81	57	0.26	22.3	103	1.1
YY18219		0.093	0.25	3.61	73	0.29	16.80	106	1.1
YY18220		0.086	0.19	1.61	45	0.19	12.85	77	0.8
YY18221		0.070	0.26	3.53	49	0.21	24.5	82	0.6
YY18222		0.069	0.36	4.01	42	0.21	27.6	75	0.5
YY18223		0.087	0.26	3.17	45	0.34	18.20	84	0.9
YY18224		0.053	0.21	3.97	40	0.29	31.4	62	0.6
YY18225		0.077	0.24	4.81	50	0.30	27.7	269	0.9
YY18226		0.086	0.31	4.19	47	0.27	25.5	129	1.0
YY18227		0.068	0.16	3.67	41	0.23	35.9	90	0.7
YY18228		0.095	0.38	11.45	45	0.34	86.4	172	1.5
YY18229		0.077	0.23	4.51	42	0.33	35.0	250	0.7
YY18230		0.093	0.21	4.17	44	0.27	26.3	153	2.2
YY18231		0.097	0.22	2.91	55	0.33	17.05	123	1.1
YY18232		0.082	0.25	4.37	53	0.22	29.0	198	1.0
YY18233		0.086	0.22	3.14	59	0.26	20.7	159	1.0
YY18234		0.089	0.23	2.96	52	0.23	20.2	167	0.9
YY18235		0.083	0.22	4.65	50	0.30	37.4	153	0.9
YY18236		0.082	0.17	2.00	53	0.28	18.10	103	0.9
YY18237		0.084	0.19	3.29	58	0.29	25.2	107	0.9
YY18238		0.078	0.19	3.85	45	0.30	35.9	100	0.7
YY18239		0.083	0.24	5.10	56	0.36	41.6	106	1.0
YY18240		0.090	0.20	2.46	54	0.30	19.95	132	0.8



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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
YY18241		0.47	0.009	1.39	1.80	119.0	<0.02	<10	130	1.13	3.45	0.26	1.46	85.4	7.4	25
YY18242		0.39	0.005	0.36	1.71	99.3	<0.02	<10	110	1.12	1.55	0.21	0.99	109.5	7.4	22
YY18243		0.44	0.006	0.07	1.52	12.3	<0.02	<10	170	1.13	0.59	0.39	0.39	119.5	7.9	27
YY18244		0.39	<0.001	0.06	2.20	13.7	<0.02	<10	130	1.03	0.53	0.20	0.25	59.9	9.9	28
YY18245		0.34	0.002	0.40	1.96	103.0	<0.02	<10	120	0.92	0.70	0.15	0.81	53.4	7.6	22
YY18246		0.31	0.001	0.09	2.46	25.3	<0.02	<10	110	0.95	1.13	0.11	0.36	50.2	7.0	26
YY18247		0.38	0.002	0.31	2.37	57.4	<0.02	<10	160	1.33	0.66	0.20	0.50	75.4	7.9	27
YY18248		0.34	0.003	0.11	2.36	63.9	<0.02	<10	140	1.06	0.54	0.17	0.78	76.6	8.7	30
YY18249		0.38	0.003	0.14	2.06	78.2	<0.02	<10	120	1.30	0.77	0.12	0.77	97.3	5.7	23
YY18250		0.32	0.002	0.14	2.14	52.5	<0.02	<10	130	0.86	0.27	0.19	0.96	60.2	8.9	29
YY18251		0.47	0.004	0.18	1.89	245	<0.02	<10	130	1.12	1.29	0.15	1.06	81.9	7.1	26
YY18252		0.46	0.004	0.18	1.76	42.1	<0.02	<10	130	1.04	0.49	0.25	0.54	93.6	7.6	26
YY18253		0.41	0.003	0.10	1.89	11.1	<0.02	<10	140	0.67	0.28	0.38	0.20	50.4	9.1	33
YY18254		0.28	0.002	1.08	1.09	17.1	<0.02	<10	50	0.23	0.70	0.12	0.18	15.80	3.1	14
YY18255		0.48	0.004	0.91	1.17	14.1	<0.02	<10	110	0.21	2.81	0.07	0.12	63.8	3.4	16
YY18256		0.49	0.001	1.43	1.78	223	<0.02	<10	110	0.40	6.63	0.03	0.06	174.0	1.2	5
YY18257		0.40	0.002	0.68	1.41	214	<0.02	<10	80	0.34	10.85	0.08	0.11	77.5	4.5	15
YY18258		0.52	0.003	1.45	0.95	458	<0.02	<10	90	0.25	28.3	0.05	0.09	97.4	1.9	9
YY18259		0.46	0.003	2.09	1.71	326	<0.02	<10	100	0.38	18.90	0.10	0.13	98.7	3.2	16
YY18260		0.39	0.002	0.49	1.59	50.3	<0.02	<10	100	0.34	11.20	0.14	0.17	49.3	6.5	20
YY18261		0.50	0.005	2.93	1.02	461	<0.02	<10	190	0.34	85.9	0.06	0.12	58.8	2.8	12
YY18262		0.59	0.003	0.69	1.81	49.1	<0.02	<10	180	0.49	11.90	0.22	0.22	72.2	4.4	23
YY18263		0.52	0.004	0.75	1.60	92.1	<0.02	<10	120	0.40	9.32	0.25	0.14	62.7	4.6	21
YY18264		0.11	0.024	1.44	1.91	86.6	<0.02	<10	150	0.36	5.84	0.16	0.30	47.9	4.4	26
YY18265		0.36	0.001	0.53	1.40	9.1	<0.02	<10	140	0.39	0.50	0.14	0.33	40.3	4.1	20
YY18266		0.34	0.004	0.27	1.75	19.2	<0.02	<10	70	0.44	0.48	0.10	0.26	45.1	4.4	20
YY18267		0.41	0.001	0.42	2.14	12.5	<0.02	<10	110	0.70	0.41	0.15	0.25	68.2	6.3	27
YY18268		0.36	0.003	0.49	2.04	26.8	<0.02	<10	160	0.39	20.1	0.17	0.18	56.7	7.2	27
YY18269		0.50	0.003	0.63	1.70	56.8	<0.02	<10	90	0.31	14.75	0.08	0.10	84.0	3.5	15
YY18270		0.43	0.006	1.62	1.96	126.0	<0.02	<10	100	0.56	12.20	0.11	0.08	99.9	4.4	16
YY18271		0.36	0.003	1.37	1.96	287	<0.02	<10	110	0.54	10.90	0.10	0.18	82.2	5.4	20
YY18272		0.41	0.003	0.89	1.85	64.5	<0.02	<10	90	0.42	4.52	0.11	0.18	49.9	6.1	22
YY18273		0.50	0.007	0.84	1.85	128.0	<0.02	<10	90	0.33	6.94	0.13	0.16	44.9	5.8	22
YY18274		0.40	0.004	0.78	1.77	70.1	<0.02	<10	90	0.32	5.74	0.15	0.12	61.2	4.2	21
YY18275		0.47	0.003	0.94	1.59	108.5	<0.02	<10	100	0.36	5.34	0.15	0.14	67.4	3.9	19
YY18276		0.41	0.001	0.74	1.35	63.5	<0.02	<10	90	0.27	4.43	0.07	0.12	46.7	4.3	16
YY18277		0.48	0.007	1.69	0.59	89.1	<0.02	<10	50	0.12	10.10	0.03	0.05	52.3	0.8	5
YY18278		0.33	0.002	1.29	3.35	349	<0.02	<10	180	1.46	6.09	0.39	1.76	32.4	13.0	87
YY18279		0.44	0.002	1.40	3.45	252	<0.02	<10	190	1.54	6.95	0.38	1.39	34.4	12.4	75
YY18280		0.36	0.002	0.38	3.86	163.0	<0.02	<10	290	1.99	3.72	0.76	0.96	44.4	18.4	81



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
YY18241		2.75	22.8	2.73	9.04	0.13	0.03	0.05	0.088	0.16	55.3	18.1	0.45	443	1.38	0.02
YY18242		2.58	15.5	2.88	8.78	0.14	0.03	0.04	0.077	0.13	54.9	20.1	0.35	518	1.52	0.01
YY18243		2.05	20.9	2.82	8.16	0.18	0.05	0.03	0.057	0.13	68.1	18.3	0.47	403	1.34	0.02
YY18244		1.96	20.2	3.07	8.30	0.08	0.04	0.05	0.055	0.11	27.0	19.2	0.44	328	1.24	0.02
YY18245		2.41	16.3	2.88	9.20	0.08	0.02	0.05	0.076	0.13	31.2	19.3	0.34	350	1.22	0.01
YY18246		1.97	17.9	3.36	10.60	0.07	0.02	0.07	0.067	0.11	22.1	20.6	0.30	253	1.51	0.01
YY18247		3.11	19.8	3.08	10.65	0.16	0.04	0.05	0.072	0.20	62.1	23.5	0.41	279	1.03	0.01
YY18248		2.56	18.0	3.16	9.97	0.13	0.06	0.05	0.074	0.16	48.4	21.2	0.48	412	1.31	0.01
YY18249		3.23	17.8	2.83	10.40	0.16	0.03	0.04	0.099	0.18	81.5	18.4	0.35	393	1.46	0.01
YY18250		1.79	14.8	2.90	7.93	0.10	0.08	0.03	0.050	0.12	34.2	17.0	0.49	378	1.27	0.02
YY18251		2.48	31.1	3.24	9.02	0.09	0.02	0.03	0.085	0.15	42.4	16.5	0.39	575	2.20	0.01
YY18252		1.62	25.3	2.84	8.25	0.11	0.02	0.03	0.057	0.11	46.7	16.7	0.45	339	1.38	0.01
YY18253		2.77	20.8	2.92	7.62	0.10	0.04	0.02	0.038	0.22	26.6	21.2	0.67	255	0.72	0.02
YY18254		0.98	12.7	1.66	5.39	<0.05	<0.02	0.04	0.029	0.04	7.6	6.1	0.17	122	0.69	0.02
YY18255		0.82	80.0	2.83	4.36	0.05	<0.02	0.06	0.038	0.26	40.5	6.8	0.29	188	1.96	0.01
YY18256		5.53	213	3.15	5.75	0.08	0.06	0.02	0.057	0.47	129.5	13.5	0.79	200	1.63	<0.01
YY18257		1.51	93.4	2.61	4.85	0.06	0.02	0.05	0.065	0.15	50.1	9.0	0.33	206	2.27	0.01
YY18258		2.40	112.0	2.45	3.80	0.08	0.05	0.03	0.059	0.21	63.1	6.2	0.26	122	3.28	0.01
YY18259		4.22	101.5	2.88	6.31	0.08	0.03	0.08	0.053	0.26	63.3	9.2	0.54	284	3.80	<0.01
YY18260		2.25	64.0	2.77	5.50	0.05	0.03	0.04	0.032	0.13	28.2	9.0	0.38	327	2.10	0.01
YY18261		3.40	137.0	4.32	4.92	0.05	0.07	0.03	0.077	0.40	35.6	5.5	0.23	204	7.60	0.02
YY18262		3.55	103.0	2.70	5.75	0.09	0.08	0.03	0.035	0.13	39.0	11.7	0.61	156	1.43	0.01
YY18263		3.34	75.2	2.85	5.10	0.07	0.05	0.09	0.029	0.15	34.5	10.3	0.59	206	1.52	0.01
YY18264		4.26	80.5	2.90	6.39	<0.05	0.04	0.18	0.040	0.12	27.9	11.0	0.51	147	3.07	0.01
YY18265		1.21	19.5	1.85	5.10	<0.05	0.02	0.05	0.018	0.07	22.5	6.4	0.38	199	1.44	0.01
YY18266		1.71	12.5	3.06	6.97	<0.05	0.03	0.07	0.026	0.08	21.7	11.3	0.48	291	2.57	<0.01
YY18267		1.66	17.4	2.85	6.79	0.08	0.04	0.08	0.027	0.08	43.4	11.8	0.48	346	2.06	<0.01
YY18268		1.29	61.4	3.18	5.81	0.05	0.04	0.04	0.038	0.15	33.2	13.0	0.52	275	1.49	<0.01
YY18269		1.66	86.2	2.71	5.70	0.07	0.06	0.04	0.036	0.29	50.1	16.3	0.76	332	2.09	<0.01
YY18270		4.11	149.0	2.81	6.13	0.08	0.10	0.03	0.054	0.49	63.2	21.5	1.08	384	2.26	<0.01
YY18271		1.64	98.5	2.84	5.19	0.06	0.07	0.04	0.082	0.17	52.4	14.9	0.45	198	1.49	0.01
YY18272		1.47	65.9	2.67	5.03	0.05	0.15	0.05	0.045	0.14	30.5	13.8	0.53	236	1.65	<0.01
YY18273		1.51	77.3	2.81	5.58	0.05	0.02	0.06	0.046	0.12	26.2	13.1	0.56	255	2.03	<0.01
YY18274		1.32	88.8	2.50	5.10	0.06	0.04	0.04	0.039	0.15	35.0	12.7	0.57	210	1.64	<0.01
YY18275		1.24	92.3	2.40	5.35	0.07	<0.02	0.03	0.043	0.18	37.6	12.7	0.64	229	1.73	<0.01
YY18276		1.63	44.4	3.36	5.26	0.06	0.06	0.02	0.041	0.31	28.1	13.3	0.47	283	6.21	<0.01
YY18277		0.99	75.3	2.11	3.73	<0.05	0.03	0.08	0.099	0.21	30.3	3.9	0.16	54	6.98	0.01
YY18278		4.36	125.0	3.83	10.55	0.05	<0.02	0.04	0.161	0.18	17.2	26.5	1.09	514	4.78	<0.01
YY18279		4.24	124.5	3.51	10.00	0.06	0.02	0.04	0.051	0.16	18.5	25.4	1.10	466	5.43	0.01
YY18280		4.85	91.9	3.38	10.80	0.09	0.05	0.01	0.041	0.34	23.7	29.6	1.54	804	6.09	0.01



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY18241		4.00	16.2	510	126.5	29.7	<0.001	0.03	5.17	4.9	<0.2	5.2	22.8	<0.01	0.03	12.3
YY18242		4.21	15.5	530	221	29.2	<0.001	0.02	4.72	4.0	0.3	4.4	15.6	<0.01	0.02	12.7
YY18243		3.10	20.5	770	17.3	22.5	0.001	0.01	0.90	5.5	0.4	3.8	26.3	<0.01	0.01	15.7
YY18244		4.98	23.0	420	16.1	23.4	<0.001	0.02	0.71	4.6	0.2	3.9	16.6	0.01	0.03	11.6
YY18245		5.04	17.7	300	87.1	31.9	<0.001	0.02	2.37	3.8	<0.2	5.6	14.2	<0.01	0.02	7.4
YY18246		4.58	17.6	370	28.8	23.9	<0.001	0.03	0.96	3.7	0.6	5.1	11.4	0.01	0.05	4.9
YY18247		6.87	18.7	480	61.8	43.5	<0.001	0.02	1.33	5.5	<0.2	4.6	15.2	<0.01	0.03	16.1
YY18248		4.39	19.0	380	77.2	33.9	<0.001	0.02	1.73	6.3	0.5	3.2	14.4	<0.01	0.02	13.6
YY18249		4.63	13.9	260	98.7	42.6	<0.001	0.01	2.53	5.0	<0.2	4.0	11.7	<0.01	0.01	17.7
YY18250		3.20	20.4	400	41.5	24.7	<0.001	0.01	1.32	5.0	0.3	2.6	16.1	0.01	0.03	11.4
YY18251		3.26	15.4	410	76.9	31.9	0.001	0.03	2.28	4.1	0.4	4.3	16.2	<0.01	0.01	7.8
YY18252		2.03	17.3	630	49.6	18.6	0.001	0.02	1.67	4.5	0.3	2.1	19.0	<0.01	0.01	9.8
YY18253		1.98	22.2	870	26.0	34.3	<0.001	0.02	0.71	4.8	0.2	1.0	22.0	<0.01	0.01	7.0
YY18254		0.96	7.2	400	72.1	5.4	0.001	0.03	0.57	1.3	<0.2	0.5	12.8	<0.01	0.02	0.5
YY18255		1.40	10.0	310	247	21.9	<0.001	0.40	0.49	1.4	0.4	0.4	11.2	<0.01	0.34	5.5
YY18256		2.68	3.0	290	189.0	69.6	<0.001	0.41	0.52	1.0	0.2	0.8	11.8	<0.01	0.30	46.0
YY18257		1.51	10.4	340	315	19.7	<0.001	0.17	1.56	1.4	0.2	0.6	14.0	<0.01	0.30	14.6
YY18258		1.44	5.2	300	301	25.2	<0.001	0.26	2.33	1.0	<0.2	0.6	16.0	<0.01	0.22	31.0
YY18259		1.86	9.2	520	177.5	37.6	<0.001	0.17	2.46	1.5	0.6	0.8	20.3	<0.01	0.18	12.6
YY18260		1.07	14.7	580	46.2	20.5	<0.001	0.15	1.01	1.9	0.4	0.6	16.5	<0.01	0.12	5.2
YY18261		1.05	6.1	500	209	44.5	<0.001	0.69	11.20	1.2	1.2	0.9	17.3	<0.01	0.37	18.4
YY18262		1.68	14.0	600	44.1	30.0	<0.001	0.08	1.24	3.7	0.5	0.7	27.1	<0.01	0.06	26.6
YY18263		1.23	13.1	720	63.1	24.5	<0.001	0.12	1.29	2.5	0.2	0.6	24.9	<0.01	0.09	15.5
YY18264		1.65	15.1	860	190.5	25.8	<0.001	0.13	1.03	2.3	0.6	0.7	23.6	<0.01	0.09	5.1
YY18265		0.97	11.9	490	53.9	14.4	<0.001	0.05	0.33	1.9	0.2	0.5	14.2	<0.01	0.03	1.9
YY18266		2.83	11.1	420	52.9	18.3	<0.001	0.05	0.44	2.2	0.4	0.6	11.2	<0.01	0.04	12.7
YY18267		1.90	14.9	370	31.1	18.3	<0.001	0.02	0.34	3.6	0.3	0.7	14.5	<0.01	0.03	13.9
YY18268		1.73	18.6	410	63.9	19.8	<0.001	0.15	0.60	3.3	0.6	0.6	18.8	<0.01	0.12	10.0
YY18269		2.76	10.4	230	88.9	36.5	<0.001	0.24	0.58	2.1	<0.2	0.6	12.6	<0.01	0.15	22.2
YY18270		1.92	9.6	270	170.5	69.5	<0.001	0.15	0.80	2.7	0.2	0.7	17.8	<0.01	0.19	31.4
YY18271		2.29	14.2	320	219	24.2	<0.001	0.18	0.96	2.3	0.5	0.6	17.1	0.01	0.10	23.8
YY18272		2.43	15.3	250	147.0	24.6	<0.001	0.12	0.82	2.8	0.5	0.5	12.6	<0.01	0.10	18.4
YY18273		2.48	16.0	360	272	20.6	<0.001	0.13	1.02	2.7	0.4	0.5	12.4	<0.01	0.23	9.5
YY18274		2.13	12.9	400	221	24.1	<0.001	0.11	1.02	2.8	0.3	0.5	13.1	<0.01	0.18	12.6
YY18275		1.58	11.1	400	223	27.2	<0.001	0.10	0.99	2.5	0.2	0.6	14.8	<0.01	0.27	6.6
YY18276		6.15	9.4	360	115.5	34.8	<0.001	0.36	0.86	1.9	0.5	0.5	11.8	<0.01	0.23	32.0
YY18277		4.21	2.3	180	1025	23.6	<0.001	0.41	2.09	0.8	0.5	0.5	8.0	0.01	0.66	14.1
YY18278		1.64	76.1	740	474	32.7	0.001	0.06	13.30	4.7	1.3	0.7	56.0	0.01	0.16	5.1
YY18279		1.73	68.3	640	339	30.8	<0.001	0.05	8.45	4.2	1.4	0.6	53.7	0.01	0.19	5.6
YY18280		0.62	71.4	650	105.0	41.2	<0.001	0.03	4.81	8.4	1.5	0.6	124.5	0.01	0.25	11.0



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18241		0.090	0.26	5.57	46	0.58	33.2	135	1.1
YY18242		0.092	0.26	3.57	48	0.39	29.1	141	0.9
YY18243		0.106	0.21	4.42	53	0.29	40.8	76	1.9
YY18244		0.113	0.20	1.93	57	0.29	14.75	64	1.9
YY18245		0.097	0.29	2.52	48	0.23	17.05	112	0.9
YY18246		0.097	0.26	2.35	66	0.27	12.40	71	1.0
YY18247		0.111	0.34	4.15	49	0.32	30.2	97	2.1
YY18248		0.104	0.31	2.99	57	0.30	29.2	147	2.9
YY18249		0.084	0.38	4.88	40	0.26	37.1	221	1.1
YY18250		0.101	0.23	2.23	52	0.22	16.15	117	3.5
YY18251		0.081	0.28	3.62	50	0.25	20.3	156	0.7
YY18252		0.085	0.22	2.99	48	0.16	24.2	107	1.0
YY18253		0.127	0.27	1.24	58	0.31	13.10	77	1.5
YY18254		0.060	0.10	0.53	44	0.16	2.56	65	0.8
YY18255		0.053	0.33	0.70	33	0.16	2.79	46	<0.5
YY18256		0.024	0.95	2.34	9	0.11	5.45	94	2.8
YY18257		0.053	0.28	1.66	33	0.18	3.63	84	0.7
YY18258		0.035	0.40	2.42	19	0.13	3.76	70	2.4
YY18259		0.057	0.54	3.09	32	0.15	3.83	68	1.5
YY18260		0.063	0.31	1.36	44	0.21	3.54	57	1.1
YY18261		0.040	0.64	2.19	29	0.76	3.11	43	3.5
YY18262		0.079	0.50	4.51	43	0.40	8.38	63	4.3
YY18263		0.075	0.42	2.53	42	0.39	5.09	61	2.1
YY18264		0.055	0.54	4.64	42	0.41	4.60	73	1.8
YY18265		0.059	0.21	2.29	36	0.18	5.53	86	0.8
YY18266		0.076	0.22	1.87	46	0.19	3.67	98	1.4
YY18267		0.089	0.24	2.87	55	0.23	9.60	77	1.8
YY18268		0.089	0.28	0.90	53	0.19	4.13	55	1.6
YY18269		0.079	0.50	1.21	32	0.14	3.07	57	3.1
YY18270		0.078	0.88	2.83	27	0.17	4.88	81	4.6
YY18271		0.064	0.36	1.83	35	7.28	3.20	66	3.0
YY18272		0.080	0.35	1.41	40	0.20	3.36	61	5.4
YY18273		0.071	0.38	1.29	44	0.22	4.06	58	1.0
YY18274		0.078	0.38	1.31	40	0.17	4.75	61	1.1
YY18275		0.070	0.33	1.44	35	0.15	5.03	67	0.6
YY18276		0.062	0.43	1.09	29	0.22	3.08	50	2.9
YY18277		0.027	0.37	0.82	17	0.33	2.50	29	1.0
YY18278		0.093	0.80	2.11	112	0.38	4.93	529	0.5
YY18279		0.089	0.72	2.80	103	0.48	5.57	377	0.5
YY18280		0.090	0.98	3.09	118	0.46	10.60	487	2.7



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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
YY18281		0.39	0.001	0.45	3.81	243	<0.02	<10	230	1.06	0.92	0.21	2.35	26.7	15.3	85
YY18282		0.32	0.001	0.33	2.24	71.4	<0.02	<10	170	0.59	1.03	0.30	0.99	27.5	7.4	44
YY18283		0.32	0.002	0.28	2.00	79.3	<0.02	<10	130	0.79	0.83	0.25	0.78	34.7	6.2	24
YY18284		0.45	0.002	0.15	3.29	123.0	<0.02	<10	210	1.30	0.88	0.26	1.03	35.0	12.9	43
YY18285		0.40	0.002	0.25	2.46	76.1	<0.02	<10	200	0.87	1.20	0.35	0.40	35.2	7.0	38
YY18286		0.35	0.001	0.07	3.55	46.5	<0.02	<10	260	1.58	1.37	0.49	0.65	37.7	13.8	47
YY18287		0.43	<0.001	0.15	3.88	36.4	<0.02	<10	410	1.10	1.30	0.49	0.27	27.7	13.1	41
YY18288		0.42	0.002	0.13	2.76	60.9	<0.02	<10	290	0.70	0.49	0.27	0.31	26.0	12.0	51
YY18289		0.32	0.002	0.45	2.25	138.0	<0.02	<10	380	0.69	0.61	0.33	0.44	26.6	11.9	46
YY18290		0.30	0.003	0.57	2.49	134.5	<0.02	<10	270	0.70	0.63	0.34	0.47	28.5	10.7	53
YY18291		0.42	<0.001	0.10	3.33	40.6	<0.02	<10	300	1.04	0.26	1.23	0.54	42.1	15.3	20
YY18292		0.41	<0.001	0.13	3.66	30.1	<0.02	<10	170	1.40	0.17	2.06	0.13	33.6	6.1	14
YY18293		0.41	<0.001	0.29	2.59	7.5	<0.02	<10	120	1.76	0.19	0.89	0.20	27.4	5.0	12
YY18294		0.41	<0.001	0.14	3.43	7.0	<0.02	<10	150	1.46	0.22	1.66	0.17	37.1	6.0	12
YY18295		0.51	<0.001	0.21	2.84	8.9	<0.02	<10	140	1.26	0.36	1.10	0.20	36.6	6.2	14
YY18296		0.38	<0.001	0.08	2.50	10.4	<0.02	<10	140	0.78	0.30	0.84	0.20	32.0	8.8	18
YY18297		0.42	0.001	0.14	1.96	12.8	<0.02	<10	220	0.80	0.23	0.42	0.12	36.8	8.8	27
YY18298		0.50	0.001	0.07	2.86	14.2	<0.02	<10	180	1.11	0.26	0.52	0.18	29.7	10.3	26
YY18299		0.44	<0.001	0.16	2.29	36.6	<0.02	<10	130	0.96	0.70	0.37	0.31	25.1	7.5	22
YY18300		0.38	0.001	0.40	1.95	87.7	<0.02	<10	120	1.21	3.07	0.50	0.39	30.6	5.7	15
YY18301		0.42	0.003	0.83	1.59	117.5	<0.02	<10	130	0.92	4.04	0.37	0.32	35.6	4.9	17
YY18302		0.40	0.002	0.20	2.03	67.9	<0.02	<10	170	0.74	0.43	0.25	0.42	36.7	7.4	24
YY18303		0.39	0.023	3.15	2.63	436	0.02	<10	140	0.97	1.56	0.20	1.48	30.7	9.2	27
YY18304		0.37	0.004	0.29	2.02	109.0	<0.02	<10	180	0.58	0.44	0.27	0.31	24.7	7.1	26
YY18305		0.37	0.002	0.30	2.77	55.5	<0.02	<10	160	0.66	0.42	0.20	0.28	22.6	7.6	27
YY18306		0.37	0.005	0.22	2.78	32.7	<0.02	<10	230	1.29	1.05	0.27	0.42	43.2	12.4	38
YY18307		0.39	<0.001	0.15	1.70	20.0	<0.02	<10	90	0.40	0.63	0.15	0.16	20.9	5.2	24
YY18308		0.39	0.016	2.63	2.42	286	<0.02	<10	160	0.83	1.00	0.22	0.56	26.1	7.0	28
YY18309		0.36	0.007	0.71	2.24	131.0	<0.02	<10	170	0.62	1.37	0.44	0.55	28.0	8.2	26
YY18310		0.35	0.002	0.76	2.61	115.5	<0.02	<10	180	0.80	1.42	0.37	0.77	27.4	7.6	22
YY18311		0.42	0.002	0.93	2.04	88.3	<0.02	<10	150	0.62	0.73	0.46	0.34	26.7	5.7	18
YY18312		0.40	0.003	0.46	1.77	87.6	<0.02	<10	130	0.59	0.51	0.43	0.52	27.2	6.1	19
YY18313		0.45	0.004	0.71	2.38	110.5	<0.02	<10	170	0.73	0.66	0.50	0.56	31.2	13.2	26
YY18314		0.47	0.004	0.40	2.19	75.1	0.02	<10	190	0.57	0.46	0.50	0.47	34.4	9.8	26
YY18315		0.49	0.001	0.16	2.13	105.5	<0.02	<10	140	0.62	0.57	0.47	0.46	28.8	14.1	24
YY18316		0.42	0.002	0.10	2.65	104.5	<0.02	<10	210	1.41	0.42	0.58	0.34	36.8	10.8	28
YY18317		0.41	<0.001	0.04	4.64	74.1	<0.02	<10	180	1.79	0.10	0.92	1.35	47.9	15.2	66
YY18318		0.43	0.002	0.79	1.89	32.2	<0.02	<10	250	0.56	0.27	0.36	0.37	38.2	11.8	31
YY18319		0.39	0.003	0.49	1.88	92.0	<0.02	<10	270	0.75	0.53	0.64	0.44	36.0	8.7	24
YY18320		0.36	0.002	0.54	2.09	142.5	<0.02	<10	130	0.68	0.69	0.18	0.56	23.9	6.9	23



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	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY18281		4.19	38.0	4.01	10.40	0.05	0.06	0.04	0.047	0.10	13.6	32.4	0.99	484	4.03	0.01
YY18282		2.01	28.4	2.67	7.02	<0.05	0.02	0.03	0.026	0.11	14.9	15.9	0.77	326	1.39	0.01
YY18283		1.76	24.7	2.40	6.60	0.05	<0.02	0.02	0.024	0.10	19.1	14.4	0.57	349	1.48	<0.01
YY18284		2.67	30.0	3.36	8.35	<0.05	0.04	0.03	0.033	0.12	18.8	22.9	0.75	601	2.43	0.01
YY18285		2.30	35.2	2.71	7.39	0.06	<0.02	0.03	0.026	0.09	20.0	18.0	0.67	354	2.14	0.01
YY18286		3.42	34.9	2.95	8.32	0.05	0.06	0.02	0.025	0.15	18.7	20.8	0.96	865	2.85	0.01
YY18287		3.89	39.0	4.10	11.70	0.09	0.02	0.01	0.060	0.54	13.4	27.1	1.60	474	1.69	0.01
YY18288		2.26	45.0	3.39	8.37	0.05	0.03	0.03	0.032	0.15	13.0	21.4	0.81	386	2.03	0.01
YY18289		2.52	49.4	2.86	7.56	0.05	<0.02	0.03	0.027	0.19	12.9	22.0	0.74	353	2.76	0.01
YY18290		2.32	39.6	3.24	8.26	0.05	0.02	0.02	0.035	0.15	14.1	22.0	0.79	406	2.35	0.01
YY18291		7.15	38.5	2.54	9.28	0.06	0.05	0.01	0.022	0.29	19.2	19.2	0.49	792	1.60	0.01
YY18292		3.01	15.5	2.68	11.25	0.07	0.03	0.01	0.030	0.15	18.1	13.3	0.48	342	1.27	<0.01
YY18293		3.69	33.0	2.04	6.98	<0.05	<0.02	0.02	0.020	0.08	19.3	14.9	0.33	240	1.25	0.03
YY18294		6.87	28.2	2.36	8.80	0.05	0.04	0.02	0.024	0.15	27.0	17.3	0.46	298	1.18	0.02
YY18295		5.60	29.0	2.70	7.73	0.05	0.02	0.01	0.024	0.08	26.3	19.4	0.44	275	1.70	0.03
YY18296		4.60	28.3	3.03	8.70	0.05	0.02	0.02	0.026	0.11	20.9	18.5	0.47	400	1.06	0.02
YY18297		2.40	29.5	2.83	5.84	0.06	0.06	0.02	0.022	0.07	19.6	16.9	0.55	341	1.08	0.01
YY18298		3.82	34.0	3.02	7.28	0.05	0.06	0.02	0.031	0.09	17.7	17.0	0.50	387	2.02	0.01
YY18299		4.32	26.7	2.96	8.06	0.05	0.02	0.03	0.028	0.06	15.1	21.9	0.41	286	3.62	0.01
YY18300		3.40	57.1	2.14	7.22	<0.05	<0.02	0.01	0.031	0.05	20.1	12.3	0.31	244	5.08	0.02
YY18301		3.55	39.1	1.85	6.53	0.07	<0.02	0.03	0.031	0.05	23.9	9.5	0.24	438	2.80	0.01
YY18302		2.30	15.1	2.66	6.68	0.06	0.02	0.01	0.030	0.06	21.8	15.5	0.37	639	1.94	<0.01
YY18303		2.52	34.1	3.13	6.33	0.05	0.08	0.07	0.068	0.06	16.7	17.5	0.44	546	1.75	<0.01
YY18304		2.47	16.1	2.80	7.05	<0.05	0.05	0.02	0.025	0.07	13.4	15.8	0.45	328	1.76	0.01
YY18305		2.90	18.6	3.03	8.11	<0.05	0.07	0.05	0.027	0.05	11.9	17.9	0.42	254	1.75	0.01
YY18306		2.82	57.7	3.32	7.32	0.05	0.22	0.04	0.037	0.07	25.9	20.3	0.62	469	2.15	0.01
YY18307		2.47	16.7	3.24	10.60	<0.05	0.03	0.02	0.024	0.05	11.5	13.1	0.34	273	3.88	<0.01
YY18308		2.42	34.1	3.01	7.29	<0.05	0.07	0.05	0.045	0.06	14.2	17.9	0.48	262	7.97	<0.01
YY18309		2.95	26.7	3.00	7.76	0.05	0.04	0.03	0.044	0.07	16.9	18.6	0.51	386	4.24	0.01
YY18310		2.79	22.2	3.10	8.69	<0.05	0.03	0.03	0.043	0.06	16.5	22.9	0.56	429	4.37	0.01
YY18311		3.22	17.2	2.70	7.42	0.05	0.03	0.02	0.036	0.05	17.3	16.5	0.46	338	1.91	0.01
YY18312		2.45	21.4	2.42	6.45	0.05	0.02	0.03	0.027	0.06	16.6	14.9	0.41	295	1.66	0.01
YY18313		2.72	23.5	3.47	8.22	0.06	0.04	0.03	0.047	0.07	18.2	22.0	0.62	685	1.77	0.01
YY18314		2.15	23.1	3.31	7.16	0.05	0.05	0.02	0.040	0.07	19.5	19.3	0.57	473	1.33	0.01
YY18315		3.82	20.4	3.67	9.70	0.06	0.06	0.05	0.036	0.06	16.2	17.8	0.56	1040	1.94	0.01
YY18316		4.38	25.7	3.03	8.43	0.05	0.11	0.02	0.036	0.06	19.6	18.3	0.58	533	1.07	0.01
YY18317		17.35	25.8	3.87	17.85	0.11	0.03	0.01	0.041	0.34	22.5	41.3	0.89	575	0.33	0.01
YY18318		0.84	30.4	3.00	5.39	0.05	0.09	0.04	0.025	0.06	19.5	13.5	0.55	471	0.98	0.01
YY18319		2.09	26.3	2.90	6.42	0.07	0.11	0.02	0.032	0.08	21.8	16.0	0.60	494	1.17	0.02
YY18320		2.00	14.8	3.49	9.82	<0.05	0.05	0.02	0.030	0.06	12.6	15.2	0.37	397	2.60	<0.01



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
YY18281		1.74	60.9	400	120.5	28.0	0.001	0.03	4.97	6.1	1.0	0.7	47.7	<0.01	0.09	5.0
YY18282		1.50	32.8	360	36.8	17.5	<0.001	0.02	1.29	3.9	0.5	0.5	35.5	<0.01	0.05	3.3
YY18283		1.53	23.7	360	49.8	17.0	<0.001	0.02	1.21	2.3	0.3	0.7	32.5	<0.01	0.04	3.1
YY18284		2.08	41.7	360	88.4	22.2	<0.001	0.02	1.23	4.6	0.6	0.7	31.7	<0.01	0.06	8.8
YY18285		1.53	32.1	440	43.0	19.8	<0.001	0.02	0.72	3.8	0.6	0.6	36.1	<0.01	0.05	2.7
YY18286		2.26	61.6	320	19.2	22.6	<0.001	0.02	0.70	5.1	0.4	0.6	56.3	0.02	0.22	9.1
YY18287		1.51	36.2	780	26.6	47.4	0.001	0.04	0.53	8.9	0.4	2.0	74.5	0.01	0.09	4.2
YY18288		2.01	36.2	650	18.6	18.8	<0.001	0.03	0.52	5.4	0.7	0.5	37.2	<0.01	0.08	3.1
YY18289		1.71	36.0	810	26.9	25.1	<0.001	0.04	0.70	4.9	0.9	0.6	45.3	<0.01	0.05	1.3
YY18290		2.40	34.9	690	79.8	21.9	<0.001	0.03	0.80	5.2	0.9	0.6	45.8	<0.01	0.08	2.4
YY18291		2.11	38.2	940	16.4	41.6	0.001	0.02	0.46	3.3	0.4	0.5	160.5	0.01	0.06	19.2
YY18292		2.05	12.0	880	10.9	14.6	0.001	0.01	0.46	4.1	0.4	0.7	378	<0.01	0.03	7.3
YY18293		0.86	7.5	900	25.9	11.0	<0.001	0.02	0.30	1.5	0.3	0.4	152.0	<0.01	0.02	2.1
YY18294		1.14	7.4	1340	30.0	19.3	<0.001	0.01	0.28	2.6	<0.2	0.4	234	<0.01	0.02	14.4
YY18295		1.25	9.2	1230	57.8	13.2	<0.001	0.01	0.36	2.6	<0.2	0.4	180.0	0.01	0.02	17.0
YY18296		1.80	10.9	1170	33.5	19.4	<0.001	0.02	0.38	2.5	0.2	0.5	122.0	0.01	0.05	6.5
YY18297		1.32	18.4	600	27.0	13.8	<0.001	0.02	0.41	4.4	0.4	0.5	55.0	0.01	0.03	9.3
YY18298		1.59	17.9	790	29.9	17.8	<0.001	0.02	0.50	3.6	0.3	0.5	84.1	0.01	0.03	11.4
YY18299		1.75	13.3	530	58.7	13.3	<0.001	0.02	0.38	2.8	<0.2	0.6	92.2	0.01	0.05	5.1
YY18300		0.75	8.0	680	67.4	10.3	<0.001	0.02	0.34	1.5	0.3	0.5	116.0	<0.01	0.04	1.1
YY18301		0.72	9.7	450	78.9	9.8	<0.001	0.02	0.51	2.0	0.2	0.4	143.0	0.01	0.06	2.8
YY18302		1.18	14.0	370	81.2	10.1	<0.001	0.02	0.45	2.5	0.4	0.6	193.5	<0.01	0.03	7.0
YY18303		1.41	20.6	400	810	12.5	0.001	0.03	3.62	3.5	0.4	0.5	88.2	0.01	0.04	10.5
YY18304		1.55	17.0	320	56.3	12.5	<0.001	0.02	0.90	3.1	0.2	0.6	72.4	<0.01	0.03	6.7
YY18305		2.11	17.9	300	41.0	11.1	0.001	0.02	0.77	3.5	0.2	0.7	50.0	0.01	0.04	8.5
YY18306		1.22	26.7	380	98.3	14.9	<0.001	0.02	0.63	6.2	0.4	0.7	50.5	0.01	0.04	19.5
YY18307		2.33	12.7	430	18.1	10.6	<0.001	0.02	0.48	2.3	0.3	0.9	32.8	<0.01	0.03	5.0
YY18308		1.51	18.2	390	565	17.2	<0.001	0.02	2.15	3.6	<0.2	0.6	35.4	<0.01	0.03	12.0
YY18309		1.50	16.0	690	194.0	13.5	<0.001	0.02	1.65	3.1	0.2	0.6	105.5	0.01	0.04	10.6
YY18310		1.70	14.2	580	150.5	14.4	<0.001	0.02	1.61	3.3	<0.2	0.7	97.1	<0.01	0.05	14.1
YY18311		1.58	11.1	680	159.0	11.7	<0.001	0.02	1.28	2.4	0.3	0.6	125.0	0.01	0.02	9.3
YY18312		1.47	10.6	730	166.0	11.0	0.001	0.02	0.93	2.3	<0.2	0.5	95.0	0.01	0.02	8.8
YY18313		1.58	17.7	850	287	14.1	<0.001	0.02	1.24	3.3	<0.2	0.5	85.2	<0.01	0.04	13.0
YY18314		1.44	18.1	930	136.5	10.7	<0.001	0.02	1.39	3.3	0.2	0.5	88.8	0.01	0.02	12.4
YY18315		1.24	16.6	1040	89.8	14.0	<0.001	0.01	0.77	4.0	0.2	0.5	81.2	0.01	0.03	14.2
YY18316		0.91	19.3	530	78.3	11.9	<0.001	0.01	0.62	5.5	0.3	0.5	81.0	0.02	0.03	17.2
YY18317		1.36	30.8	360	26.4	42.3	0.001	0.01	0.30	9.0	<0.2	0.9	84.2	0.01	0.03	16.0
YY18318		0.96	26.6	720	79.4	6.5	0.001	0.02	0.66	5.5	0.4	0.5	38.6	<0.01	0.02	6.3
YY18319		1.06	17.7	790	155.0	12.8	<0.001	0.02	1.04	4.6	0.2	0.5	144.0	0.01	0.02	17.6
YY18320		2.24	12.2	520	98.5	18.2	<0.001	0.02	0.73	2.9	0.2	0.7	60.7	<0.01	0.04	6.7



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18281		0.088	0.47	1.35	113	0.32	4.71	337	2.7
YY18282		0.092	0.28	1.30	64	0.18	4.08	213	0.7
YY18283		0.065	0.22	2.36	46	0.34	4.77	183	0.5
YY18284		0.093	0.38	2.43	71	0.41	6.85	238	1.8
YY18285		0.083	0.31	3.33	62	0.29	7.85	137	0.5
YY18286		0.105	0.39	1.52	78	0.36	7.25	154	3.3
YY18287		0.184	0.47	1.40	84	0.28	10.30	113	0.8
YY18288		0.138	0.26	1.26	99	0.18	5.54	99	1.2
YY18289		0.119	0.32	1.65	97	0.23	7.83	100	2.1
YY18290		0.142	0.25	1.21	93	0.23	5.74	126	0.9
YY18291		0.125	0.34	1.61	60	0.21	6.47	109	2.1
YY18292		0.131	0.18	1.60	69	0.17	8.63	53	0.6
YY18293		0.042	0.13	4.20	41	2.01	3.40	53	<0.5
YY18294		0.063	0.17	2.18	46	1.38	3.93	58	1.2
YY18295		0.059	0.18	2.10	57	1.59	4.17	63	0.8
YY18296		0.095	0.19	1.69	65	1.01	4.21	53	0.7
YY18297		0.095	0.17	4.91	61	1.47	6.52	54	2.4
YY18298		0.093	0.19	3.65	60	6.54	4.50	62	2.4
YY18299		0.086	0.14	2.78	66	3.23	3.49	70	0.9
YY18300		0.050	0.14	5.53	46	4.51	4.38	69	<0.5
YY18301		0.037	0.10	2.92	35	0.26	7.47	77	<0.5
YY18302		0.042	0.11	1.96	50	0.26	5.72	108	0.8
YY18303		0.053	0.18	2.61	54	0.31	4.32	294	3.8
YY18304		0.082	0.13	1.36	61	0.32	3.60	69	1.6
YY18305		0.080	0.16	1.04	64	0.95	3.17	69	3.1
YY18306		0.097	0.20	3.41	67	1.79	6.19	92	10.8
YY18307		0.115	0.14	0.84	85	2.05	2.04	45	1.3
YY18308		0.087	0.19	3.07	65	2.31	3.97	87	2.8
YY18309		0.090	0.16	2.07	62	5.42	3.61	143	1.7
YY18310		0.079	0.15	1.80	63	2.64	3.28	119	1.2
YY18311		0.088	0.12	2.00	59	1.71	3.75	87	0.8
YY18312		0.089	0.13	2.09	53	4.04	3.35	99	0.9
YY18313		0.104	0.14	1.69	70	3.08	4.07	133	1.7
YY18314		0.102	0.12	2.10	68	2.73	4.68	101	2.0
YY18315		0.104	0.12	2.87	79	0.76	4.75	127	2.6
YY18316		0.100	0.14	3.80	64	0.56	5.64	106	5.2
YY18317		0.162	0.40	2.38	65	2.65	7.76	155	1.3
YY18318		0.097	0.08	4.25	64	0.59	9.64	67	4.0
YY18319		0.108	0.13	6.19	60	1.72	8.46	101	4.2
YY18320		0.107	0.15	1.38	84	0.60	2.85	93	1.8



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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
YY18321		0.41	0.005	2.06	1.88	311	<0.02	<10	140	0.84	1.28	0.62	0.97	39.9	5.4	14
YY18322		0.36	0.007	0.59	2.53	128.0	<0.02	<10	160	0.71	0.86	0.27	0.57	25.2	10.6	31
YY18323		0.34	0.007	2.08	2.13	260	<0.02	<10	170	1.05	1.02	0.67	0.67	34.5	6.7	19
YY18324		0.45	0.009	2.55	2.57	304	<0.02	<10	150	0.79	2.46	0.26	0.72	28.9	7.1	26
YY18325		0.38	0.005	0.81	2.77	166.5	<0.02	<10	210	1.10	0.47	0.35	0.76	28.8	12.3	29
YY18326		0.39	0.001	0.40	1.91	134.5	<0.02	<10	150	0.45	0.41	0.27	0.59	23.4	6.0	23
YY18327		0.44	0.003	0.58	2.59	120.5	<0.02	<10	180	1.21	0.90	0.37	0.69	31.3	7.6	26
YY18328		0.36	0.001	0.18	2.07	50.0	<0.02	<10	140	0.83	0.39	0.48	0.25	26.6	6.8	17
YY18329		0.35	0.002	0.70	2.36	37.6	<0.02	<10	190	1.03	0.93	0.43	0.32	31.0	8.1	23
YY18330		0.36	0.002	0.08	2.12	17.3	<0.02	<10	180	0.59	0.27	0.25	0.22	25.3	7.3	26
YY18331		0.36	0.002	0.27	1.70	42.2	<0.02	<10	190	0.61	0.31	0.26	0.25	25.9	6.5	23
YY18332		0.35	0.009	0.55	1.36	234	<0.02	<10	120	0.53	0.61	0.20	0.98	41.2	6.2	19
YY18333		0.41	<0.001	0.05	2.48	34.2	<0.02	<10	100	0.85	1.36	1.02	0.19	32.1	4.4	7
YY18334		0.45	<0.001	0.19	2.27	29.9	<0.02	<10	160	1.02	6.07	1.02	0.26	31.4	5.4	12
YY18335		0.35	0.002	0.16	2.51	13.6	<0.02	<10	130	1.51	0.79	1.18	0.14	37.1	6.1	15
YY18336		0.39	0.001	0.24	2.35	13.8	<0.02	<10	140	1.05	0.38	0.52	0.21	25.8	5.6	18
YY18337		0.37	0.002	0.25	1.81	7.4	<0.02	<10	130	1.04	0.45	0.58	0.18	23.6	3.6	13
YY18338		0.29	0.003	0.29	2.03	141.5	<0.02	<10	150	0.52	0.48	0.10	0.95	31.5	7.5	33
YY18339		0.43	0.006	1.19	1.51	821	<0.02	<10	190	0.51	4.75	0.13	0.98	53.8	7.8	27
YY18340		0.35	0.003	0.47	1.48	377	<0.02	<10	220	0.49	2.51	0.16	0.79	36.6	6.7	32
YY18341		0.40	0.004	0.47	1.91	357	<0.02	<10	210	0.50	1.74	0.15	0.78	33.5	7.1	38
YY18342		0.41	0.004	0.32	1.94	226	<0.02	<10	220	0.55	0.81	0.13	0.60	36.0	9.1	35
YY18343		0.38	0.003	0.36	1.85	193.0	<0.02	<10	230	0.51	0.71	0.16	0.64	32.5	8.4	35
YY18344		0.42	0.004	0.32	1.99	149.0	<0.02	<10	200	0.51	0.96	0.13	0.48	31.9	10.2	35
YY18345		0.35	0.004	0.25	1.95	95.8	<0.02	<10	220	0.52	0.57	0.16	0.39	30.4	8.8	32
YY18346		0.40	0.004	0.24	1.78	99.8	<0.02	<10	200	0.49	0.62	0.20	0.45	31.0	8.5	31
YY18347		0.38	0.004	0.16	1.91	89.4	<0.02	<10	190	0.44	0.81	0.20	0.37	27.7	8.3	33
YY18348		0.46	0.003	0.18	1.72	121.0	<0.02	<10	200	0.47	1.08	0.10	0.43	30.0	5.9	34
YY18349		0.35	0.004	0.33	2.14	221	<0.02	<10	220	0.58	1.71	0.12	0.62	28.7	7.6	38
YY18350		0.43	0.005	0.35	1.68	259	<0.02	<10	260	0.53	2.09	0.09	0.43	24.7	4.6	36
YY18351		0.28	0.002	0.09	1.68	83.7	<0.02	<10	120	0.27	0.58	0.09	0.20	21.9	5.2	30
YY18352		0.43	0.004	0.20	2.31	137.5	<0.02	<10	280	0.95	1.33	0.32	0.41	32.7	11.3	46
YY18353		0.41	0.005	0.23	2.42	122.0	<0.02	<10	270	0.79	1.00	0.33	0.74	25.0	13.3	48
YY18354		0.40	0.002	0.09	2.89	125.5	<0.02	<10	270	0.84	1.20	0.36	0.39	26.1	12.5	54
YY18355		0.39	0.002	0.07	2.27	65.6	<0.02	<10	270	0.63	0.54	0.31	0.17	25.3	10.0	49
YY18356		0.37	0.003	0.05	2.25	69.1	<0.02	<10	240	0.60	0.56	0.24	0.18	26.6	9.7	45
YY18357		0.32	0.004	0.13	2.06	70.8	<0.02	<10	180	0.49	0.88	0.23	0.22	20.4	7.1	46
YY18358		0.35	0.002	0.48	2.30	56.6	<0.02	<10	170	0.56	0.93	0.24	0.42	25.3	5.5	37
YY18359		0.40	0.003	0.22	2.27	40.5	<0.02	<10	260	0.65	0.52	0.25	0.36	26.2	8.8	40
YY18360		0.45	0.004	0.43	2.45	44.4	<0.02	<10	290	0.64	0.64	0.27	0.48	28.3	9.7	44



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
YY18321		4.91	19.3	2.56	7.58	0.05	0.03	0.02	0.044	0.10	23.9	16.9	0.42	535	1.56	0.01
YY18322		2.61	27.9	3.94	7.86	<0.05	0.06	0.02	0.044	0.07	13.1	26.1	0.58	440	2.73	0.01
YY18323		3.21	41.0	3.05	8.25	0.05	0.02	0.05	0.039	0.07	22.3	24.2	0.52	391	2.62	0.01
YY18324		3.41	24.8	3.48	10.00	0.05	0.07	0.04	0.054	0.05	17.7	20.7	0.50	334	3.87	0.01
YY18325		3.08	32.9	3.47	8.84	0.05	0.02	0.05	0.052	0.08	17.1	20.2	0.48	650	3.78	0.01
YY18326		2.30	14.2	2.97	9.49	<0.05	0.03	0.01	0.039	0.06	12.6	15.9	0.40	283	14.00	0.01
YY18327		3.59	26.3	3.62	9.56	0.05	0.04	0.03	0.043	0.07	18.6	26.0	0.50	338	14.15	0.02
YY18328		5.25	23.5	2.33	7.50	<0.05	<0.02	0.01	0.023	0.07	16.3	17.0	0.40	329	2.52	0.01
YY18329		4.75	35.8	2.70	7.98	0.06	<0.02	0.04	0.034	0.07	19.5	21.5	0.43	388	6.36	0.01
YY18330		2.00	16.6	2.74	6.24	<0.05	0.02	0.02	0.027	0.05	14.0	15.3	0.46	265	2.39	<0.01
YY18331		1.69	16.9	2.35	5.78	0.06	0.02	0.02	0.024	0.05	18.5	14.2	0.38	294	1.37	<0.01
YY18332		1.47	16.3	2.25	5.21	<0.05	<0.02	0.03	0.047	0.06	21.6	10.8	0.32	530	2.14	<0.01
YY18333		4.94	18.6	2.13	8.26	<0.05	0.02	0.01	0.018	0.09	19.0	15.1	0.32	378	1.86	<0.01
YY18334		5.64	26.1	2.25	7.07	0.05	0.02	0.01	0.017	0.10	21.6	17.9	0.42	279	1.63	0.03
YY18335		4.83	25.3	2.33	7.25	0.05	0.02	0.02	0.022	0.08	25.0	22.5	0.42	308	1.45	0.01
YY18336		3.50	21.9	2.46	8.26	<0.05	<0.02	0.03	0.023	0.06	16.1	19.6	0.41	221	2.06	0.01
YY18337		2.59	19.1	1.71	6.00	<0.05	<0.02	0.03	0.017	0.05	14.7	10.1	0.26	145	1.11	0.02
YY18338		1.76	51.0	3.64	6.23	0.05	0.02	0.08	0.038	0.08	17.2	18.3	0.39	191	1.69	<0.01
YY18339		2.82	83.5	3.75	4.94	0.09	<0.02	0.02	0.096	0.19	28.0	13.3	0.46	217	2.08	<0.01
YY18340		2.03	51.6	3.21	6.90	0.06	<0.02	0.04	0.027	0.14	19.1	10.0	0.35	193	2.31	<0.01
YY18341		2.39	59.5	3.74	7.07	0.06	0.02	0.01	0.037	0.17	17.7	15.4	0.51	216	2.90	<0.01
YY18342		1.96	53.8	3.47	6.63	0.05	0.02	0.03	0.035	0.12	18.4	16.0	0.47	270	2.79	<0.01
YY18343		2.31	55.0	3.60	6.82	0.05	0.02	0.03	0.032	0.15	17.1	15.7	0.53	239	3.34	<0.01
YY18344		2.18	50.2	3.46	6.85	0.06	<0.02	0.04	0.028	0.15	16.8	17.2	0.56	285	2.87	<0.01
YY18345		1.66	44.5	2.91	5.56	0.06	0.02	0.04	0.027	0.11	15.2	14.1	0.54	288	1.83	<0.01
YY18346		1.91	46.2	2.85	5.54	0.07	0.02	0.02	0.028	0.13	15.9	14.2	0.56	262	2.21	<0.01
YY18347		1.81	38.3	3.04	6.07	0.06	0.03	0.02	0.032	0.11	14.1	14.6	0.58	257	1.99	<0.01
YY18348		2.18	44.5	3.25	7.46	<0.05	<0.02	0.03	0.031	0.15	15.5	12.9	0.51	233	2.82	<0.01
YY18349		2.59	53.5	3.32	7.41	0.05	<0.02	0.03	0.032	0.16	14.8	19.3	0.60	262	2.73	<0.01
YY18350		2.53	53.6	2.97	6.89	0.06	<0.02	0.02	0.033	0.20	13.1	17.0	0.64	206	3.04	<0.01
YY18351		1.68	19.5	3.63	7.89	<0.05	0.03	0.01	0.025	0.07	10.8	14.6	0.39	214	2.07	<0.01
YY18352		3.41	63.8	3.32	7.42	0.07	0.03	0.01	0.029	0.28	15.9	23.6	0.86	432	2.10	<0.01
YY18353		2.64	54.2	3.16	7.37	0.06	0.07	0.03	0.027	0.17	12.3	21.8	0.79	469	2.15	<0.01
YY18354		2.99	45.3	3.47	9.91	0.05	0.02	0.02	0.029	0.15	13.7	24.1	0.76	410	2.45	<0.01
YY18355		1.87	39.6	2.97	6.91	0.06	0.06	0.04	0.024	0.10	13.1	20.0	0.76	325	1.54	0.01
YY18356		1.91	34.3	2.93	7.53	<0.05	0.02	0.03	0.023	0.09	13.4	18.2	0.67	307	1.57	<0.01
YY18357		2.01	33.5	2.61	7.50	<0.05	0.02	0.02	0.023	0.09	10.3	15.1	0.57	246	1.68	0.01
YY18358		2.27	46.3	2.35	7.37	<0.05	<0.02	0.05	0.026	0.11	13.3	19.0	0.62	164	2.15	<0.01
YY18359		2.15	37.5	2.94	7.42	0.05	0.02	0.04	0.029	0.10	13.7	18.9	0.60	349	2.30	<0.01
YY18360		2.62	44.1	3.19	7.94	0.06	0.03	0.04	0.032	0.14	13.8	23.9	0.65	367	3.07	<0.01



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		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
YY18321		1.96	8.0	750	326	21.0	<0.001	0.03	1.97	2.7	0.2	0.5	177.0	0.01	0.02	17.3
YY18322		1.71	21.3	550	135.0	17.0	<0.001	0.02	1.03	3.5	<0.2	0.6	51.6	<0.01	0.04	8.9
YY18323		1.57	14.2	890	285	15.5	<0.001	0.02	1.09	3.3	0.3	0.5	114.0	<0.01	0.02	9.5
YY18324		1.90	14.4	460	472	18.2	<0.001	0.03	2.35	3.3	<0.2	0.7	66.1	<0.01	0.04	9.6
YY18325		1.35	17.9	870	153.5	17.7	0.001	0.03	0.71	3.5	0.2	0.5	73.9	<0.01	0.04	6.4
YY18326		1.78	12.7	410	132.5	15.8	<0.001	0.02	0.62	2.8	<0.2	0.8	72.3	<0.01	0.04	5.0
YY18327		1.84	16.5	620	108.0	19.3	0.001	0.03	0.94	3.7	<0.2	0.8	95.6	<0.01	0.05	10.1
YY18328		0.91	11.7	730	21.7	12.4	0.001	0.02	0.49	1.7	<0.2	0.5	121.0	0.01	0.02	1.7
YY18329		0.98	15.2	710	68.7	16.8	<0.001	0.03	0.72	2.7	0.6	0.6	105.0	<0.01	0.03	2.3
YY18330		1.24	16.3	490	17.7	9.5	<0.001	0.01	0.41	3.1	0.3	0.6	57.1	<0.01	0.03	4.0
YY18331		0.87	15.1	500	26.7	9.4	<0.001	0.01	0.46	2.5	0.3	0.5	40.9	<0.01	0.02	1.8
YY18332		0.65	11.5	550	138.5	9.9	0.001	0.02	0.98	1.8	0.4	0.5	47.9	<0.01	0.02	2.3
YY18333		0.81	4.7	700	22.9	8.8	<0.001	0.01	0.43	1.7	0.2	0.4	206	<0.01	0.01	8.9
YY18334		1.11	7.1	890	32.1	14.5	<0.001	0.01	0.36	2.6	<0.2	0.4	174.0	0.01	0.03	13.7
YY18335		1.06	8.0	980	26.7	10.6	<0.001	0.01	0.27	2.5	<0.2	0.4	198.5	<0.01	0.03	17.1
YY18336		1.38	11.8	670	36.8	12.4	<0.001	0.01	0.32	2.6	0.2	0.5	123.0	0.01	0.02	5.1
YY18337		0.49	7.4	680	20.7	8.2	<0.001	0.03	0.32	0.8	0.3	0.4	103.5	<0.01	0.03	0.4
YY18338		1.60	25.2	470	15.0	11.8	<0.001	0.07	1.75	3.0	0.9	0.6	21.4	<0.01	0.08	3.6
YY18339		0.82	29.3	860	608	21.7	<0.001	0.21	4.58	2.6	1.2	0.4	41.5	<0.01	0.15	5.0
YY18340		1.16	23.8	720	59.6	17.5	0.001	0.08	1.41	2.4	1.1	0.6	29.7	<0.01	0.10	1.0
YY18341		1.64	32.7	790	83.5	20.3	0.001	0.12	1.88	3.2	1.4	0.6	31.8	<0.01	0.08	2.8
YY18342		1.28	30.3	700	61.3	16.9	0.001	0.08	1.57	3.2	1.1	0.6	26.8	<0.01	0.08	1.8
YY18343		1.24	30.5	790	55.4	18.5	<0.001	0.10	1.58	2.5	1.3	0.6	28.6	<0.01	0.08	1.0
YY18344		1.34	28.2	700	38.5	19.8	<0.001	0.09	1.06	3.1	1.3	0.6	28.3	<0.01	0.09	2.5
YY18345		1.03	26.0	710	27.2	14.6	<0.001	0.06	0.83	3.2	0.6	0.5	23.7	<0.01	0.04	1.7
YY18346		1.04	24.8	760	23.4	16.9	<0.001	0.09	0.95	3.1	1.0	0.5	26.5	<0.01	0.06	1.8
YY18347		1.24	26.7	760	23.1	15.5	<0.001	0.06	0.84	3.4	0.8	0.5	23.1	<0.01	0.06	2.5
YY18348		1.16	18.7	610	27.0	21.0	<0.001	0.10	0.95	2.3	1.1	0.6	21.3	<0.01	0.08	1.0
YY18349		1.42	24.0	600	75.9	21.6	<0.001	0.10	1.40	3.1	1.2	0.6	23.9	<0.01	0.11	1.5
YY18350		1.24	20.3	560	104.0	23.7	0.001	0.15	1.48	2.6	1.3	0.5	28.4	<0.01	0.13	1.3
YY18351		1.71	14.1	350	27.5	12.4	<0.001	0.04	0.68	2.6	0.6	0.6	13.1	<0.01	0.05	1.7
YY18352		1.60	35.9	660	40.4	35.4	<0.001	0.07	0.92	5.4	1.4	0.6	43.9	0.01	0.13	3.5
YY18353		1.45	39.3	690	77.5	23.7	0.001	0.04	0.91	5.7	0.9	0.5	35.4	0.01	0.09	3.6
YY18354		2.18	40.8	650	27.2	22.5	0.001	0.04	0.73	5.2	1.0	0.6	40.4	0.01	0.13	1.7
YY18355		1.23	35.6	440	14.1	15.4	0.001	0.03	0.60	5.6	0.6	0.5	35.0	<0.01	0.06	2.9
YY18356		1.44	30.7	520	15.5	14.1	<0.001	0.02	0.50	4.6	0.7	0.5	29.4	<0.01	0.08	2.0
YY18357		1.21	26.8	460	24.5	14.7	0.001	0.03	0.58	2.5	0.4	0.5	31.6	0.01	0.07	0.4
YY18358		1.40	23.5	720	31.5	19.7	<0.001	0.03	0.62	3.6	1.2	0.6	27.1	<0.01	0.04	0.8
YY18359		1.49	27.9	710	14.9	17.6	<0.001	0.03	0.46	4.2	0.7	0.6	27.8	<0.01	0.04	1.2
YY18360		2.06	29.2	730	16.8	22.2	<0.001	0.03	0.46	5.4	0.4	0.6	36.5	<0.01	0.08	2.3



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		Ti %	Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18321		0.096	0.21	3.03	54	2.51	4.75	144	1.6
YY18322		0.085	0.15	1.30	75	1.10	3.48	130	2.8
YY18323		0.085	0.15	4.47	63	0.99	5.98	117	0.9
YY18324		0.104	0.22	2.40	79	0.85	4.09	138	3.0
YY18325		0.087	0.17	4.69	72	0.90	5.52	143	1.0
YY18326		0.100	0.15	1.55	75	1.15	2.95	105	1.3
YY18327		0.086	0.21	4.35	80	6.75	4.93	123	1.6
YY18328		0.060	0.12	2.23	47	5.03	3.55	69	<0.5
YY18329		0.059	0.16	5.88	53	2.68	6.39	74	0.6
YY18330		0.070	0.13	1.62	58	0.29	4.61	54	0.9
YY18331		0.050	0.10	1.90	51	0.32	8.17	66	0.5
YY18332		0.040	0.10	1.86	41	0.98	3.95	195	<0.5
YY18333		0.032	0.10	1.58	35	0.93	2.77	64	0.6
YY18334		0.063	0.18	2.68	43	3.47	3.38	57	0.8
YY18335		0.070	0.13	3.81	49	1.78	3.93	49	0.7
YY18336		0.063	0.11	2.78	53	2.09	3.24	61	0.5
YY18337		0.034	0.12	4.11	39	0.37	3.07	37	<0.5
YY18338		0.073	0.26	1.38	68	0.21	4.14	114	1.1
YY18339		0.055	0.43	1.73	47	0.21	6.51	153	<0.5
YY18340		0.081	0.25	1.36	75	0.21	6.47	97	0.6
YY18341		0.096	0.37	1.37	86	0.19	5.90	138	0.8
YY18342		0.076	0.26	1.59	73	0.21	8.45	115	0.6
YY18343		0.076	0.30	1.59	79	0.21	6.40	124	0.7
YY18344		0.079	0.28	1.36	73	0.19	5.60	96	0.8
YY18345		0.073	0.22	1.43	61	0.17	6.87	80	0.9
YY18346		0.074	0.28	1.35	59	0.18	6.55	76	0.8
YY18347		0.083	0.26	1.10	65	0.21	5.67	83	1.3
YY18348		0.080	0.31	1.22	77	0.17	4.02	80	0.6
YY18349		0.083	0.40	1.36	80	0.20	4.84	101	0.6
YY18350		0.084	0.46	1.19	84	0.18	3.80	100	<0.5
YY18351		0.099	0.23	0.59	86	0.23	2.72	53	1.4
YY18352		0.123	0.59	1.61	87	0.29	8.06	103	1.0
YY18353		0.109	0.38	1.32	94	0.22	8.04	142	2.9
YY18354		0.130	0.38	1.28	117	0.28	5.81	106	1.0
YY18355		0.116	0.24	1.17	87	0.18	7.36	80	1.8
YY18356		0.109	0.23	1.16	85	0.18	5.73	79	1.0
YY18357		0.097	0.22	0.92	75	0.18	3.60	78	0.6
YY18358		0.094	0.28	2.61	61	0.19	4.78	107	0.6
YY18359		0.096	0.22	1.71	73	0.20	6.69	89	0.7
YY18360		0.121	0.28	5.74	81	0.28	9.02	84	1.1



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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
YY18361		0.41	<0.001	0.13	2.66	18.6	<0.02	<10	240	0.69	0.50	0.84	0.25	38.5	8.5	18
YY18362		0.43	0.001	0.19	2.19	22.8	<0.02	<10	210	0.89	0.34	0.52	0.16	39.6	8.1	22
YY18363		0.34	0.001	0.08	2.18	23.6	<0.02	<10	200	0.43	0.54	0.37	0.16	29.3	9.7	27
YY18364		0.37	0.003	0.19	2.36	22.0	<0.02	<10	270	0.65	0.43	0.63	0.16	36.7	8.5	23
YY18365		0.41	0.001	0.11	1.90	20.9	<0.02	<10	170	0.40	0.46	0.32	0.13	29.1	8.9	26
YY18366		0.32	0.003	0.32	2.21	31.0	<0.02	<10	160	0.61	1.20	0.32	0.22	28.3	6.3	25
YY18367		0.40	<0.001	0.15	1.75	42.6	0.04	<10	110	0.39	1.12	0.17	0.24	24.7	5.1	24
YY18368		0.34	0.003	0.18	2.12	42.9	<0.02	<10	120	0.52	1.24	0.20	0.26	27.8	7.3	26
YY18369		0.33	0.002	0.13	2.15	62.4	<0.02	<10	160	0.49	1.57	0.18	0.27	27.0	6.9	28
YY18370		0.33	0.001	0.12	1.86	22.1	<0.02	<10	150	0.49	1.32	0.26	0.21	30.3	7.2	27
YY18371		0.33	0.002	0.24	1.84	122.0	<0.02	<10	170	0.53	0.97	0.26	0.46	29.3	6.9	27
YY18372		0.36	0.002	0.19	1.98	25.7	<0.02	<10	190	0.69	0.96	0.32	0.29	35.5	8.1	28
YY18373		0.39	0.003	0.22	1.68	51.5	<0.02	<10	140	0.56	3.57	0.38	0.53	39.1	6.9	24
YY18374		0.45	<0.001	0.75	1.38	65.2	<0.02	<10	120	0.43	1.12	0.43	0.53	39.4	5.9	20
YY18375		0.40	0.005	0.47	1.86	121.0	<0.02	<10	140	0.67	0.83	0.69	0.46	36.2	5.9	19
YY18376		0.42	0.004	0.22	1.70	60.9	<0.02	<10	200	0.47	0.70	0.37	0.39	36.9	8.8	29
YY18377		0.33	0.001	0.11	1.86	20.4	<0.02	<10	200	0.41	0.32	0.26	0.19	29.5	7.0	29
YY18378		0.34	0.005	0.28	1.73	35.0	<0.02	<10	170	0.47	0.41	0.25	0.30	27.6	6.2	24
YY18379		0.40	0.004	0.08	1.50	40.7	<0.02	<10	160	0.47	0.40	0.39	0.26	34.1	7.9	24
YY18380		0.41	0.006	0.13	2.03	46.0	<0.02	<10	160	0.46	0.58	0.30	0.32	28.6	10.8	29
YY18381		0.40	0.002	0.21	2.28	37.8	<0.02	<10	140	0.83	2.14	0.69	0.28	35.4	6.9	17
YY18382		0.40	0.003	0.29	1.64	22.0	<0.02	<10	130	0.61	1.88	0.28	0.28	27.7	5.6	18
YY18383		0.36	0.004	0.27	1.50	22.2	<0.02	<10	120	0.54	1.41	0.30	0.26	26.1	4.8	17
YY18384		0.43	0.002	0.13	1.72	29.1	<0.02	<10	120	0.42	0.97	0.30	0.24	27.5	5.7	24
YY18385		0.46	0.002	0.14	1.72	28.1	0.04	<10	130	0.43	0.97	0.31	0.23	30.2	6.9	22
YY18386		0.41	<0.001	0.16	1.77	34.4	<0.02	<10	140	0.47	1.10	0.27	0.24	27.3	6.0	23
YY18387		0.61	0.002	0.28	1.46	37.3	<0.02	<10	140	0.39	1.46	0.37	0.24	37.0	6.8	20
YY18388		0.50	0.004	0.86	2.34	35.0	<0.02	<10	210	0.50	2.01	0.33	0.26	33.6	6.2	27
YY18389		0.45	0.004	1.15	2.13	80.3	<0.02	<10	220	0.51	1.72	0.39	0.41	35.3	7.6	25
YY18390		0.44	0.003	0.98	1.96	51.7	<0.02	<10	180	0.45	1.60	0.41	0.22	28.7	4.7	26
YY18391		0.49	0.002	0.82	2.34	85.2	<0.02	<10	260	1.27	2.13	0.58	0.78	57.5	10.8	25
YY18392		0.46	0.082	5.33	2.15	650	0.06	<10	140	0.79	4.75	0.35	1.05	37.7	8.9	24
YY18393		0.42	0.005	1.90	1.62	106.5	<0.02	<10	110	0.59	0.52	0.23	0.56	23.7	5.1	16
YY18394		0.29	0.005	0.40	1.43	87.0	<0.02	<10	80	0.68	0.35	0.25	0.47	25.4	4.7	15
YY18395		0.51	<0.001	0.14	2.62	131.5	<0.02	<10	120	1.15	0.42	0.36	0.54	36.5	7.6	23
YY18396		0.49	0.002	0.52	2.39	17.1	<0.02	<10	120	0.58	0.54	0.17	0.39	23.3	8.0	26
YY18397		0.39	0.004	0.53	1.97	37.0	<0.02	<10	90	0.50	0.75	0.18	0.45	23.6	5.3	18
YY18398		0.47	0.012	0.71	2.33	93.8	<0.02	<10	260	0.50	0.47	0.30	0.41	23.1	9.6	55
YY18399		0.38	0.002	0.24	1.73	28.1	<0.02	<10	100	0.29	0.25	0.12	0.25	22.1	5.0	30
YY18400		0.46	0.003	0.18	1.88	29.5	<0.02	<10	150	0.44	0.24	0.19	0.43	25.9	7.8	37



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Project: CN

CERTIFICATE OF ANALYSIS WH19198419

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
YY18361		4.85	18.5	3.10	8.98	0.08	0.03	0.02	0.018	0.23	20.4	23.0	0.60	384	1.47	0.01
YY18362		3.13	15.4	3.41	7.53	0.05	0.02	0.04	0.032	0.10	21.0	18.5	0.53	646	1.81	0.01
YY18363		2.22	14.6	3.61	8.19	0.07	0.03	0.02	0.023	0.07	15.2	21.3	0.53	408	1.94	0.01
YY18364		3.13	17.2	3.38	8.79	0.08	0.02	0.03	0.026	0.10	18.5	21.5	0.55	368	1.75	0.01
YY18365		1.61	17.2	2.85	6.71	0.07	0.02	0.02	0.026	0.06	14.2	15.8	0.48	356	1.24	0.01
YY18366		2.61	28.7	2.68	8.36	0.06	0.02	0.04	0.028	0.06	16.2	19.0	0.49	225	2.48	<0.01
YY18367		1.57	19.8	2.51	9.77	<0.05	0.02	0.03	0.026	0.06	14.0	11.2	0.39	239	2.35	<0.01
YY18368		1.77	23.4	2.94	8.04	0.06	<0.02	0.02	0.025	0.06	13.8	14.9	0.46	339	2.11	<0.01
YY18369		2.31	30.1	3.03	9.16	0.06	0.03	0.03	0.026	0.06	14.1	13.3	0.43	338	6.16	<0.01
YY18370		1.51	23.4	2.50	6.48	0.06	0.02	0.02	0.023	0.06	16.5	13.3	0.46	327	1.78	0.01
YY18371		1.53	20.2	2.59	6.81	0.06	0.03	0.02	0.068	0.06	17.4	14.1	0.43	307	3.32	<0.01
YY18372		1.89	23.7	2.74	6.93	0.06	0.05	0.01	0.027	0.05	20.8	16.4	0.51	320	2.75	0.01
YY18373		2.07	23.8	2.56	6.16	0.06	0.05	0.01	0.029	0.06	23.6	16.1	0.48	361	4.04	0.01
YY18374		2.00	20.3	2.33	5.83	0.06	0.03	0.03	0.025	0.05	25.5	17.8	0.45	313	25.3	0.01
YY18375		4.21	34.9	2.48	7.84	0.06	0.02	0.01	0.031	0.09	23.6	20.3	0.50	317	49.6	0.01
YY18376		1.28	22.8	3.15	6.17	0.07	0.05	0.02	0.028	0.06	21.2	13.5	0.49	402	6.51	0.01
YY18377		1.02	19.3	2.58	6.05	0.05	0.02	0.03	0.023	0.05	16.4	12.5	0.48	256	8.42	0.01
YY18378		1.44	22.8	2.58	6.12	<0.05	0.02	0.03	0.026	0.05	15.7	14.2	0.43	249	12.00	<0.01
YY18379		1.20	20.5	2.72	5.11	0.06	0.04	0.01	0.024	0.05	19.1	12.8	0.45	354	3.37	0.01
YY18380		1.28	20.8	3.15	6.55	0.05	0.03	0.02	0.029	0.05	15.1	17.6	0.49	467	10.15	0.01
YY18381		3.71	26.7	2.90	8.99	0.06	0.02	0.02	0.022	0.10	23.4	18.3	0.43	331	4.45	0.01
YY18382		1.84	30.8	2.26	7.42	0.05	0.02	0.02	0.023	0.06	16.7	14.2	0.35	230	5.97	0.01
YY18383		2.02	25.0	2.10	7.40	0.06	0.02	0.02	0.021	0.06	16.0	16.3	0.33	221	7.77	0.01
YY18384		1.49	17.9	3.08	8.25	<0.05	0.02	0.02	0.024	0.06	16.7	13.7	0.45	264	2.48	<0.01
YY18385		1.39	18.1	2.91	6.59	0.06	0.02	0.02	0.021	0.05	18.4	15.2	0.42	321	3.72	<0.01
YY18386		1.76	24.2	2.50	6.81	0.05	0.02	0.03	0.022	0.07	15.7	13.5	0.44	249	3.59	0.01
YY18387		2.42	28.1	2.63	6.29	0.07	0.02	0.02	0.022	0.07	23.0	15.5	0.45	321	9.97	0.01
YY18388		2.49	24.2	2.45	8.20	0.05	0.02	0.05	0.030	0.07	20.1	22.0	0.46	219	23.5	0.01
YY18389		2.34	22.5	2.70	7.87	0.06	0.02	0.04	0.033	0.06	21.4	19.1	0.47	483	13.10	0.01
YY18390		2.42	24.7	1.99	6.88	0.05	<0.02	0.06	0.023	0.05	18.5	21.3	0.47	145	7.30	0.01
YY18391		2.92	61.5	2.35	6.96	0.08	0.02	0.09	0.034	0.05	36.5	30.4	0.45	482	7.80	0.02
YY18392		4.41	118.5	3.25	7.84	0.07	<0.02	0.03	0.069	0.10	23.0	20.2	0.49	434	16.35	0.01
YY18393		2.93	44.5	2.02	6.83	<0.05	<0.02	0.06	0.022	0.05	16.1	10.3	0.27	165	15.95	0.01
YY18394		3.15	28.5	2.04	6.94	<0.05	<0.02	0.02	0.023	0.07	15.6	12.6	0.30	264	13.00	0.01
YY18395		4.65	23.3	3.20	10.35	0.05	0.03	0.04	0.040	0.07	23.3	23.1	0.49	336	15.15	0.01
YY18396		3.66	24.5	3.25	9.52	<0.05	0.03	0.04	0.038	0.07	12.9	19.2	0.39	325	7.62	<0.01
YY18397		3.23	20.6	2.65	9.38	<0.05	0.04	0.03	0.021	0.05	13.7	16.1	0.31	225	11.20	0.01
YY18398		2.60	37.8	2.97	8.60	0.06	<0.02	0.04	0.038	0.11	12.2	19.0	0.74	602	3.64	0.01
YY18399		1.55	17.9	2.50	6.31	<0.05	<0.02	0.03	0.034	0.06	12.4	11.9	0.35	225	1.29	0.01
YY18400		1.52	26.2	2.67	6.23	0.05	<0.02	0.03	0.033	0.07	14.6	16.4	0.52	361	1.33	0.02



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.01	0.01	0.2	
YY18361		2.85	18.8	950	15.1	38.0	<0.001	0.01	0.26	3.5	0.2	0.7	118.5	0.02	0.02	14.4
YY18362		1.59	12.5	1100	12.7	16.9	<0.001	0.03	0.34	4.1	0.5	0.7	65.6	0.01	0.04	3.8
YY18363		2.12	16.1	690	17.8	15.5	<0.001	0.01	0.36	3.4	0.4	0.6	42.4	<0.01	0.04	5.6
YY18364		2.16	14.1	990	23.2	19.7	<0.001	0.02	0.30	3.8	0.3	0.6	84.1	0.01	0.03	5.9
YY18365		1.51	17.0	710	16.8	12.2	<0.001	0.01	0.43	2.9	0.3	0.5	34.0	<0.01	0.03	2.9
YY18366		1.11	14.7	610	26.6	13.1	<0.001	0.02	0.42	2.5	0.5	0.5	43.6	<0.01	0.02	1.0
YY18367		1.26	12.5	430	64.3	12.0	<0.001	0.02	0.39	2.4	0.4	0.7	33.0	<0.01	0.03	1.4
YY18368		1.05	15.8	610	51.7	11.1	<0.001	0.01	0.41	2.5	0.3	0.6	28.9	<0.01	0.02	1.4
YY18369		1.62	15.8	450	40.5	13.0	<0.001	0.02	0.51	3.0	0.3	0.7	45.0	<0.01	0.04	3.5
YY18370		1.12	18.0	510	26.4	9.3	<0.001	0.01	0.43	2.6	0.3	0.5	44.9	<0.01	0.02	1.6
YY18371		1.83	16.7	490	168.5	10.5	<0.001	0.02	0.38	2.7	0.3	0.5	45.5	<0.01	0.04	3.1
YY18372		1.85	20.7	450	34.3	10.3	<0.001	0.01	0.35	3.5	<0.2	0.6	52.9	<0.01	0.02	7.4
YY18373		1.58	14.2	560	92.1	11.4	<0.001	0.01	0.47	3.0	<0.2	0.5	66.4	<0.01	0.04	8.0
YY18374		1.69	11.9	650	77.1	11.0	<0.001	0.01	0.43	2.7	0.4	0.5	65.5	<0.01	0.03	8.4
YY18375		1.73	11.0	770	160.0	13.9	<0.001	0.02	1.14	3.1	0.3	0.5	110.5	0.01	0.02	8.8
YY18376		1.57	19.1	690	54.4	8.7	<0.001	0.01	0.92	3.4	0.3	0.5	55.1	<0.01	0.03	7.1
YY18377		1.18	17.9	470	20.1	8.5	<0.001	0.01	0.36	3.4	0.3	0.5	34.8	<0.01	0.02	2.8
YY18378		1.12	13.7	550	39.7	10.5	<0.001	0.02	0.40	2.5	0.3	0.5	36.6	<0.01	0.02	2.3
YY18379		1.11	15.1	710	50.7	7.7	0.001	0.01	0.54	3.0	0.4	0.5	56.9	<0.01	0.02	7.0
YY18380		1.52	18.0	600	56.0	9.3	<0.001	0.01	0.59	3.0	0.5	0.6	39.9	<0.01	0.03	5.4
YY18381		1.72	12.0	920	48.4	15.7	<0.001	0.02	0.37	2.7	0.4	0.5	80.1	0.01	0.05	6.7
YY18382		1.33	10.4	550	22.4	13.6	<0.001	0.02	0.30	2.2	0.4	0.5	46.1	<0.01	0.03	2.8
YY18383		1.28	9.9	470	20.9	14.2	<0.001	0.02	0.33	2.0	0.3	0.5	50.4	<0.01	0.04	1.8
YY18384		1.36	12.9	630	28.9	11.2	<0.001	0.02	0.34	2.2	0.2	0.6	36.9	<0.01	0.03	3.6
YY18385		1.23	13.0	760	28.4	8.5	<0.001	0.02	0.36	2.5	0.4	0.5	36.9	<0.01	0.02	4.0
YY18386		1.21	13.1	540	31.8	14.2	<0.001	0.02	0.36	2.5	0.4	0.5	40.1	<0.01	0.03	3.0
YY18387		1.58	11.0	800	36.1	15.1	<0.001	0.02	0.39	2.8	0.2	0.6	60.1	<0.01	0.02	7.8
YY18388		1.34	15.2	710	45.7	16.1	0.001	0.04	0.39	3.3	0.5	0.6	49.9	<0.01	0.02	2.8
YY18389		1.54	14.6	800	117.0	14.2	0.001	0.04	0.68	3.2	0.5	0.5	57.2	<0.01	0.04	4.8
YY18390		1.18	15.9	800	51.5	10.4	0.001	0.05	0.38	2.6	0.6	0.5	48.2	<0.01	0.02	1.6
YY18391		1.02	23.0	870	75.7	9.5	0.001	0.08	0.54	2.8	2.0	0.5	59.9	<0.01	0.04	1.5
YY18392		1.24	16.7	810	51.1	24.3	<0.001	0.05	7.82	3.2	0.5	0.6	55.8	<0.01	0.09	4.2
YY18393		0.84	9.1	540	114.5	13.6	<0.001	0.04	1.08	1.4	0.6	0.5	40.2	<0.01	0.04	0.4
YY18394		0.81	7.8	580	65.6	15.3	0.001	0.03	0.76	1.5	0.4	0.5	38.3	<0.01	0.04	1.0
YY18395		1.82	13.7	560	203	17.0	<0.001	0.02	0.56	3.6	0.3	0.7	56.7	0.01	0.04	11.3
YY18396		2.37	14.1	370	42.8	18.6	<0.001	0.02	0.48	3.3	0.3	0.8	25.6	0.01	0.05	6.4
YY18397		1.95	9.9	320	113.5	12.6	<0.001	0.02	0.85	2.5	0.3	0.7	26.1	0.01	0.05	7.0
YY18398		1.24	29.7	600	91.6	15.6	<0.001	0.03	0.66	4.0	0.6	0.5	39.7	<0.01	0.05	0.7
YY18399		1.14	15.2	490	48.2	10.4	<0.001	0.02	0.43	2.2	0.5	0.5	16.2	<0.01	0.05	0.7
YY18400		1.15	25.1	530	65.0	11.5	<0.001	0.02	0.59	2.8	0.4	0.4	19.2	<0.01	0.05	0.9



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18361		0.173	0.27	3.82	69	0.32	8.01	112	1.3
YY18362		0.092	0.18	4.18	80	0.28	9.97	59	0.7
YY18363		0.120	0.16	1.71	89	0.64	5.07	64	1.1
YY18364		0.122	0.18	2.58	81	0.32	7.08	63	0.9
YY18365		0.101	0.12	1.50	67	0.28	4.84	60	0.9
YY18366		0.078	0.19	2.05	60	0.69	4.86	71	<0.5
YY18367		0.083	0.14	1.03	64	0.45	3.30	76	0.6
YY18368		0.080	0.16	1.42	64	0.55	3.61	76	0.5
YY18369		0.098	0.19	1.84	69	1.88	3.47	82	1.0
YY18370		0.084	0.09	1.28	55	0.65	4.53	67	0.7
YY18371		0.104	0.11	2.46	58	1.16	3.87	84	1.2
YY18372		0.107	0.11	2.97	60	0.36	4.80	69	1.9
YY18373		0.108	0.12	2.33	56	1.66	4.06	111	1.8
YY18374		0.091	0.10	3.02	50	4.68	3.89	104	1.1
YY18375		0.102	0.16	2.87	51	3.00	3.98	104	1.1
YY18376		0.107	0.10	1.42	67	0.58	4.97	75	1.5
YY18377		0.093	0.09	1.52	59	0.54	4.88	59	0.9
YY18378		0.079	0.10	1.99	59	2.25	3.98	70	0.6
YY18379		0.091	0.09	1.91	60	2.79	5.52	69	1.7
YY18380		0.090	0.11	1.78	66	0.99	4.35	84	1.3
YY18381		0.079	0.21	2.24	60	3.29	4.29	83	0.6
YY18382		0.079	0.12	2.61	53	4.34	3.72	53	0.6
YY18383		0.077	0.13	3.41	50	6.03	3.99	50	0.6
YY18384		0.098	0.12	1.57	76	1.51	3.98	67	0.7
YY18385		0.085	0.10	1.55	66	0.71	4.09	65	0.7
YY18386		0.086	0.14	2.20	55	3.86	3.81	67	0.8
YY18387		0.098	0.16	2.94	58	3.93	4.51	68	0.8
YY18388		0.076	0.16	5.44	53	1.79	4.72	84	0.7
YY18389		0.091	0.16	2.72	56	0.87	4.42	106	0.9
YY18390		0.075	0.20	6.86	43	1.73	4.29	94	0.5
YY18391		0.060	0.28	13.65	45	1.55	16.70	125	0.5
YY18392		0.075	0.25	5.38	60	6.12	4.95	157	<0.5
YY18393		0.051	0.17	2.96	43	3.61	3.61	88	<0.5
YY18394		0.061	0.12	2.36	44	4.25	2.50	68	<0.5
YY18395		0.094	0.26	2.09	63	4.30	3.49	123	1.3
YY18396		0.110	0.23	1.61	73	3.66	2.89	70	1.4
YY18397		0.097	0.18	1.48	62	3.83	2.45	57	2.0
YY18398		0.107	0.21	1.15	88	0.26	5.25	131	0.6
YY18399		0.065	0.18	0.71	65	0.21	2.93	64	0.5
YY18400		0.077	0.17	0.97	66	0.22	4.38	106	0.6



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CERTIFICATE COMMENTS	
	<p style="text-align: center;">ANALYTICAL COMMENTS</p> <p>Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g). ME-MS41</p> <p style="text-align: center;">LABORATORY ADDRESSES</p> <p>Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada. LOG-22 SCR-41 WEI-21</p> <p>Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. Au-ICP21 ME-MS41</p>



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CERTIFICATE WH19198425

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This report is for 195 Soil samples submitted to our lab in Whitehorse, YT, Canada on 10-AUG-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	JULIA LANE	
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	Ultra Trace Aqua Regia ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOD		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY18401		0.44	0.002	0.25	1.95	18.9	<0.02	<10	230	0.43	0.18	0.26	0.43	22.7	10.0	54
YY18402		0.39	0.005	0.15	1.99	14.8	<0.02	<10	180	0.51	0.20	0.23	0.39	21.4	9.0	49
YY18403		0.47	0.002	0.08	2.02	8.8	<0.02	<10	220	0.55	0.14	0.29	0.23	23.5	9.5	46
YY18404		0.47	0.002	0.09	2.62	31.8	<0.02	<10	100	0.45	0.22	0.09	0.36	21.6	8.6	35
YY18405		0.45	0.001	0.03	1.77	30.2	<0.02	<10	120	0.38	0.28	0.10	0.22	27.0	5.6	40
YY18406		0.43	0.011	0.66	3.51	136.0	<0.02	<10	300	0.61	0.63	0.30	0.52	17.80	14.2	88
YY18407		0.50	0.001	0.06	3.31	47.4	<0.02	<10	300	0.66	0.20	0.34	0.54	21.1	15.8	70
YY18408		0.46	0.003	0.29	2.50	77.5	<0.02	<10	170	0.95	0.53	0.55	0.49	31.7	8.0	23
YY18409		0.48	0.003	2.79	2.17	34.1	<0.02	<10	110	1.18	1.17	0.74	0.58	37.1	4.8	16
YY18410		0.50	0.005	0.17	2.38	34.7	<0.02	<10	140	1.06	0.68	0.28	0.29	29.5	7.6	23
YY18411		0.54	0.002	0.38	2.78	93.4	<0.02	<10	140	1.22	0.49	0.45	0.79	37.5	6.0	13
YY18412		0.48	0.004	2.60	2.99	288	<0.02	<10	120	1.16	0.62	0.19	0.71	43.5	10.2	27
YY18413		0.47	0.017	1.17	1.91	393	<0.02	<10	110	1.08	0.88	0.30	2.43	36.1	8.4	19
YY18414		0.53	0.003	0.16	2.23	53.1	<0.02	<10	120	0.65	0.47	0.22	0.55	28.2	9.9	27
YY18415		0.52	0.001	0.17	2.27	16.3	<0.02	<10	110	0.85	1.00	0.30	0.39	28.2	9.7	22
YY18416		0.39	0.003	0.14	1.94	11.4	<0.02	<10	130	0.72	0.61	0.24	0.31	27.0	7.1	21
YY18417		0.44	0.009	0.57	1.78	162.5	<0.02	<10	120	0.93	0.79	0.31	1.11	33.1	7.8	18
YY18418		0.50	0.002	0.64	2.06	69.2	<0.02	<10	120	1.08	1.11	0.41	0.67	33.9	7.3	17
YY18419		0.55	0.004	0.80	2.31	46.8	<0.02	<10	150	1.20	1.69	0.37	0.59	46.1	12.0	24
YY18420		0.40	0.001	0.27	2.30	17.9	<0.02	<10	140	1.04	0.68	0.46	0.24	25.3	6.5	17
YY18421		0.39	0.001	0.52	2.46	19.9	<0.02	<10	140	1.21	1.51	0.91	0.35	32.0	7.0	10
YY18422		0.36	<0.001	1.33	2.37	23.2	<0.02	<10	130	1.51	13.70	0.77	0.71	31.8	5.7	13
YY18423		0.38	0.006	1.64	2.54	88.1	<0.02	<10	200	1.43	6.17	0.85	1.10	42.1	9.4	22
YY18424		0.42	<0.001	0.29	1.84	21.7	<0.02	<10	170	0.45	6.29	0.35	0.38	28.3	7.6	20
YY18425		0.50	0.005	0.20	2.06	26.4	<0.02	<10	200	0.80	6.58	0.38	0.16	36.0	10.6	27
YY18426		0.51	0.002	0.09	1.97	12.6	<0.02	<10	180	0.67	1.49	0.36	0.19	36.9	10.8	26
YY18427		0.49	0.002	0.10	2.58	11.7	<0.02	<10	160	0.89	2.54	0.49	0.19	32.6	10.6	26
YY18428		0.46	0.001	0.23	2.75	12.8	<0.02	<10	160	1.30	2.38	0.76	0.14	36.1	7.1	20
YY18429		0.47	0.001	0.13	1.88	12.5	<0.02	<10	120	0.76	1.77	0.64	0.19	33.6	5.7	17
YY18430		0.50	<0.001	0.22	2.46	27.4	<0.02	<10	120	1.06	3.73	0.78	0.20	36.0	7.3	16
YY18431		0.37	<0.001	0.06	2.92	28.6	0.02	<10	100	1.06	8.34	0.73	0.20	33.1	6.6	15
YY18432		0.37	<0.001	0.15	2.04	15.3	<0.02	<10	110	0.67	3.46	0.39	0.15	26.0	5.7	16
YY18433		0.36	0.001	0.32	1.10	10.0	<0.02	<10	90	0.41	6.87	0.17	0.20	20.9	3.3	12
YY18434		0.41	0.002	0.17	1.80	9.8	<0.02	<10	120	0.56	3.40	0.20	0.17	24.5	6.8	21
YY18435		0.42	0.001	0.13	1.76	8.9	<0.02	<10	130	0.52	2.24	0.22	0.16	28.3	7.7	21
YY18436		0.38	0.006	0.29	2.56	13.7	<0.02	<10	170	0.66	1.38	0.23	0.25	29.6	12.0	32
YY18437		0.48	0.003	0.17	2.11	11.7	<0.02	<10	170	0.58	1.57	0.25	0.18	32.5	7.5	29
YY18438		0.34	0.003	0.37	2.41	24.6	<0.02	<10	180	0.84	4.23	0.34	0.35	37.6	9.0	24
YY18439		0.42	0.003	0.18	2.01	13.4	<0.02	<10	150	0.49	1.56	0.24	0.25	28.9	8.3	27
YY18440		0.51	0.002	0.58	2.29	47.9	<0.02	<10	180	1.26	7.70	0.43	0.68	53.4	6.7	17



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY18401		1.47	32.4	2.37	5.65	0.06	0.02	0.06	0.027	0.07	11.9	14.8	0.64	322	1.24	0.02
YY18402		1.74	28.3	2.43	6.64	0.06	<0.02	0.03	0.031	0.07	11.4	16.2	0.56	358	1.38	0.01
YY18403		1.93	26.0	2.50	6.57	0.06	0.02	0.19	0.025	0.10	12.3	16.5	0.67	311	0.73	0.02
YY18404		1.91	17.8	3.77	7.69	0.06	0.06	0.02	0.032	0.05	10.9	18.4	0.35	301	1.71	0.01
YY18405		2.60	24.5	2.74	8.72	0.06	<0.02	0.01	0.037	0.07	14.4	12.2	0.37	307	1.41	0.01
YY18406		4.08	34.9	3.74	9.48	0.06	0.04	0.03	0.041	0.17	8.6	23.1	1.11	459	1.12	0.02
YY18407		3.90	22.6	3.57	9.36	0.05	0.03	0.03	0.045	0.16	9.2	23.2	0.92	579	1.32	0.02
YY18408		3.55	22.9	3.01	9.74	0.06	<0.02	0.03	0.036	0.09	18.1	18.4	0.53	474	6.69	0.01
YY18409		4.67	25.7	2.39	10.55	0.07	<0.02	0.04	0.032	0.07	24.5	17.4	0.46	199	12.05	0.02
YY18410		3.75	62.8	3.46	8.86	0.05	0.07	0.03	0.033	0.08	18.8	24.7	0.52	308	11.05	0.01
YY18411		5.46	43.2	3.62	10.05	0.05	0.09	0.02	0.031	0.08	21.4	34.2	0.53	373	11.45	0.02
YY18412		6.28	80.2	3.95	9.73	0.07	0.13	0.06	0.052	0.12	28.1	26.6	0.64	331	18.60	0.02
YY18413		3.72	126.0	2.81	6.78	0.07	0.02	0.02	0.037	0.09	22.7	18.2	0.42	429	19.90	0.01
YY18414		2.38	37.5	3.35	6.70	0.05	0.08	0.02	0.034	0.06	16.7	19.2	0.45	373	16.80	0.01
YY18415		3.93	32.8	3.28	8.64	0.05	0.03	0.02	0.026	0.06	16.6	20.0	0.39	415	16.95	0.02
YY18416		2.56	45.3	2.54	7.41	0.06	0.02	0.02	0.022	0.06	16.0	15.8	0.38	271	14.85	0.01
YY18417		3.35	66.3	2.56	6.49	0.06	0.02	0.02	0.056	0.07	21.9	20.4	0.40	337	21.9	0.02
YY18418		3.69	58.4	2.63	7.63	0.05	<0.02	0.03	0.034	0.07	23.0	20.5	0.40	428	37.8	0.02
YY18419		3.96	65.5	3.15	7.37	0.06	0.02	0.05	0.036	0.07	27.8	23.6	0.51	457	20.9	0.02
YY18420		4.44	13.3	2.40	7.53	<0.05	<0.02	0.04	0.025	0.08	15.4	20.4	0.34	364	8.75	0.02
YY18421		3.89	27.5	2.15	7.62	<0.05	<0.02	0.09	0.020	0.13	24.1	18.2	0.49	452	29.8	0.02
YY18422		3.38	64.2	2.04	7.73	<0.05	<0.02	0.09	0.041	0.11	23.4	17.5	0.33	335	19.80	0.02
YY18423		3.70	60.0	2.17	7.52	0.06	<0.02	0.05	0.046	0.09	24.8	34.0	0.49	316	12.25	0.02
YY18424		2.17	39.3	3.03	8.48	<0.05	0.02	0.03	0.031	0.08	16.7	17.0	0.38	609	2.35	0.01
YY18425		1.96	74.1	2.89	6.22	0.05	0.05	0.02	0.040	0.05	19.8	20.0	0.55	368	1.65	0.02
YY18426		2.22	31.5	3.12	6.46	0.05	0.03	0.03	0.024	0.07	20.4	18.3	0.54	346	3.02	0.02
YY18427		3.23	41.5	3.19	7.71	0.05	0.03	0.02	0.027	0.08	18.7	20.6	0.55	361	3.17	0.02
YY18428		4.54	38.0	3.03	9.40	0.05	<0.02	0.03	0.031	0.09	23.5	19.5	0.45	262	2.71	0.02
YY18429		3.30	22.6	2.55	6.75	0.05	<0.02	0.03	0.021	0.07	21.4	16.4	0.44	221	1.63	0.03
YY18430		4.63	32.4	3.09	8.55	0.05	0.02	0.02	0.025	0.09	24.6	23.4	0.47	309	2.34	0.03
YY18431		7.28	67.0	3.62	10.95	0.06	0.02	0.02	0.032	0.13	23.7	24.0	0.54	319	3.79	0.02
YY18432		4.48	37.9	2.96	9.02	0.05	<0.02	0.02	0.022	0.09	16.3	18.5	0.46	267	5.89	0.02
YY18433		2.10	38.9	1.81	5.60	<0.05	<0.02	0.04	0.020	0.07	12.8	7.2	0.23	157	4.92	0.02
YY18434		2.97	31.7	2.46	7.33	<0.05	0.02	0.03	0.022	0.06	14.1	14.0	0.37	281	4.63	0.02
YY18435		2.05	26.5	2.48	5.93	<0.05	<0.02	0.02	0.021	0.06	16.6	14.1	0.40	310	3.53	0.02
YY18436		1.79	31.2	3.48	6.99	<0.05	0.05	0.03	0.032	0.07	15.6	23.4	0.57	403	5.12	0.02
YY18437		1.89	44.7	3.03	6.79	<0.05	0.03	0.02	0.026	0.06	18.6	19.9	0.49	254	6.52	0.02
YY18438		3.39	93.1	3.58	8.49	0.05	0.04	0.03	0.029	0.08	23.7	22.6	0.48	337	17.55	0.02
YY18439		1.67	40.2	3.00	6.73	<0.05	0.02	0.04	0.028	0.06	15.7	17.9	0.45	331	6.18	0.02
YY18440		3.87	79.2	3.49	8.33	0.06	<0.02	0.03	0.049	0.09	37.3	24.6	0.50	652	40.0	0.02



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY18401		0.96	48.0	520	47.5	9.5	0.001	0.02	0.48	3.4	0.5	0.4	23.7	<0.01	0.01	1.1
YY18402		0.92	35.2	490	41.3	10.6	<0.001	0.03	0.51	2.6	0.6	0.4	22.2	<0.01	0.03	0.5
YY18403		1.31	33.1	520	22.3	14.3	<0.001	0.02	0.39	4.0	0.3	0.5	25.8	<0.01	0.01	1.4
YY18404		1.92	21.7	390	55.2	9.9	<0.001	0.02	0.80	3.4	0.4	0.6	10.4	0.01	0.04	2.7
YY18405		1.23	19.9	380	100.0	10.9	0.001	0.02	0.50	2.7	0.7	0.6	15.8	<0.01	0.05	0.7
YY18406		2.15	47.3	430	429	21.0	<0.001	0.02	1.49	7.4	0.6	0.6	51.2	<0.01	0.03	1.9
YY18407		2.24	31.8	470	53.1	22.0	<0.001	0.02	0.64	6.4	0.8	0.4	80.6	0.01	0.03	2.0
YY18408		1.35	18.0	880	82.9	15.2	0.001	0.02	0.58	3.1	0.5	0.6	97.5	<0.01	0.02	2.6
YY18409		1.32	10.3	1010	250	16.2	0.001	0.03	1.77	2.8	0.4	0.6	88.6	<0.01	0.02	4.2
YY18410		1.77	16.2	660	68.6	20.1	0.001	0.01	0.63	4.2	0.3	0.7	41.1	0.01	0.02	9.5
YY18411		1.79	11.9	1050	56.8	20.9	0.001	0.02	0.76	3.6	0.7	0.7	145.0	0.01	0.02	25.9
YY18412		2.04	18.3	380	499	37.8	<0.001	0.03	2.46	5.9	1.0	0.9	59.2	0.01	0.02	15.5
YY18413		1.08	13.8	810	116.5	25.5	0.001	0.03	1.54	2.8	0.6	0.5	61.7	<0.01	0.04	4.5
YY18414		1.38	18.2	640	61.7	13.8	<0.001	0.02	0.76	3.5	0.4	0.6	31.1	<0.01	0.04	7.2
YY18415		1.64	14.9	520	44.7	15.0	<0.001	0.02	0.73	3.4	0.8	0.6	63.6	0.01	0.06	9.2
YY18416		0.93	13.5	580	25.3	15.0	0.001	0.02	0.47	2.1	0.4	0.6	48.0	<0.01	0.05	1.1
YY18417		0.91	12.8	670	192.0	20.1	0.001	0.03	1.06	2.6	0.7	0.5	65.4	<0.01	0.06	2.3
YY18418		1.07	10.3	740	130.0	19.1	<0.001	0.01	0.84	2.6	0.3	0.5	85.3	<0.01	0.09	4.2
YY18419		1.31	16.5	670	107.0	20.2	<0.001	0.01	0.59	4.0	0.3	0.5	69.7	<0.01	0.17	9.1
YY18420		1.39	11.2	670	32.9	14.3	<0.001	0.01	0.41	2.3	0.3	0.5	102.0	0.01	0.05	5.3
YY18421		1.14	6.4	980	39.7	22.1	<0.001	0.03	0.29	2.3	0.5	0.4	188.0	<0.01	0.06	8.4
YY18422		1.00	8.4	830	59.2	17.3	<0.001	0.04	0.56	2.2	0.4	0.4	155.5	0.01	0.09	3.3
YY18423		1.04	16.6	830	133.5	17.7	0.001	0.08	0.71	2.9	0.7	0.5	105.0	<0.01	0.06	2.3
YY18424		1.62	12.1	940	34.7	18.5	<0.001	0.01	0.46	2.4	0.2	0.6	78.9	<0.01	0.09	3.3
YY18425		1.29	18.3	500	53.5	10.4	<0.001	<0.01	0.50	4.2	0.4	0.6	51.5	0.01	0.04	6.2
YY18426		1.42	18.9	780	19.2	13.3	<0.001	0.02	0.44	3.9	0.4	0.6	82.6	<0.01	0.04	6.5
YY18427		1.69	17.6	750	25.6	14.7	<0.001	0.01	0.38	3.9	0.4	0.6	109.0	0.01	0.04	8.1
YY18428		1.28	12.3	1040	31.0	15.1	<0.001	0.01	0.38	3.2	0.3	0.6	124.5	0.01	0.04	3.2
YY18429		1.16	10.1	970	38.9	12.6	<0.001	0.01	0.31	2.3	0.4	0.5	127.0	0.01	0.04	3.9
YY18430		1.45	10.2	1220	56.0	16.6	<0.001	0.01	0.31	2.8	0.3	0.5	169.5	0.01	0.05	11.6
YY18431		1.65	8.0	1200	48.6	24.5	<0.001	0.02	0.33	2.4	0.3	0.7	140.5	0.01	0.07	10.9
YY18432		1.55	10.1	740	23.9	17.3	<0.001	0.02	0.34	2.2	0.5	0.6	103.5	0.01	0.07	4.1
YY18433		1.06	6.7	400	25.8	13.6	<0.001	0.02	0.31	1.0	0.4	0.6	50.7	<0.01	0.05	1.6
YY18434		1.09	12.3	590	22.9	16.8	<0.001	0.01	0.34	2.0	0.3	0.6	42.4	<0.01	0.04	1.5
YY18435		1.24	13.6	640	18.1	14.6	<0.001	0.01	0.35	2.5	0.4	0.5	35.1	<0.01	0.04	3.4
YY18436		1.67	24.8	590	17.5	15.4	<0.001	0.01	0.51	4.0	0.2	0.6	27.0	<0.01	0.05	7.6
YY18437		1.40	17.8	540	20.6	14.0	<0.001	0.01	0.35	3.9	0.5	0.6	34.0	<0.01	0.04	5.1
YY18438		1.58	14.7	930	54.3	20.2	<0.001	0.01	0.38	4.1	0.4	0.6	70.9	<0.01	0.06	12.0
YY18439		1.27	16.3	550	22.1	13.2	<0.001	0.01	0.39	3.1	0.3	0.5	40.0	<0.01	0.04	4.4
YY18440		1.04	10.1	1200	99.6	23.2	<0.001	0.01	0.95	4.0	0.4	0.7	139.0	<0.01	0.05	20.5



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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18401		0.071	0.17	0.82	52	0.22	5.35	93	0.7
YY18402		0.065	0.17	0.88	60	0.21	4.44	88	0.5
YY18403		0.105	0.18	1.18	60	0.20	5.98	65	0.9
YY18404		0.084	0.18	0.58	78	0.29	2.72	58	2.7
YY18405		0.064	0.30	0.77	88	0.19	3.19	71	<0.5
YY18406		0.193	0.32	0.62	116	0.25	3.93	138	1.5
YY18407		0.172	0.24	0.71	114	0.17	4.23	112	1.2
YY18408		0.073	0.22	1.84	70	0.19	5.23	110	<0.5
YY18409		0.068	0.25	3.32	51	14.10	4.83	87	<0.5
YY18410		0.101	0.27	3.19	65	7.26	3.55	62	2.9
YY18411		0.048	0.21	4.27	59	13.00	5.53	92	2.9
YY18412		0.132	0.47	5.56	72	9.80	4.40	124	5.4
YY18413		0.058	0.25	7.08	50	10.50	5.14	177	0.5
YY18414		0.078	0.18	2.96	67	15.40	3.56	102	2.7
YY18415		0.081	0.21	3.21	67	4.66	3.72	64	1.6
YY18416		0.063	0.18	5.18	54	4.99	3.54	64	0.5
YY18417		0.056	0.23	5.92	50	8.02	5.04	215	0.5
YY18418		0.053	0.22	5.34	52	17.15	4.26	156	0.5
YY18419		0.078	0.28	7.43	61	6.51	6.16	136	0.9
YY18420		0.066	0.16	2.12	52	1.81	2.98	74	0.5
YY18421		0.037	0.23	5.38	40	3.88	3.49	59	<0.5
YY18422		0.046	0.22	6.03	38	24.6	3.83	88	<0.5
YY18423		0.061	0.26	11.90	43	2.85	9.08	143	<0.5
YY18424		0.094	0.18	1.27	74	2.13	3.19	69	0.8
YY18425		0.096	0.15	3.31	62	1.06	6.38	65	2.3
YY18426		0.103	0.15	3.03	65	9.00	6.85	65	1.3
YY18427		0.105	0.18	2.45	64	7.79	5.02	64	1.2
YY18428		0.082	0.19	4.06	65	4.42	6.05	55	0.6
YY18429		0.091	0.17	3.59	58	7.81	4.58	56	0.5
YY18430		0.097	0.21	4.27	64	1.80	4.72	58	0.6
YY18431		0.105	0.30	2.80	71	2.52	3.43	80	0.5
YY18432		0.097	0.20	3.46	65	3.25	3.41	59	0.7
YY18433		0.067	0.12	2.52	46	1.73	2.34	35	0.5
YY18434		0.081	0.16	2.50	56	2.96	3.21	48	0.8
YY18435		0.087	0.16	2.51	55	5.98	3.89	48	0.8
YY18436		0.101	0.16	2.59	71	1.59	4.44	65	2.5
YY18437		0.094	0.15	3.93	67	4.03	5.23	56	1.5
YY18438		0.102	0.23	6.05	71	8.15	6.07	71	1.9
YY18439		0.086	0.15	2.54	65	3.33	3.91	59	1.1
YY18440		0.058	0.29	7.75	60	3.89	6.76	212	0.8



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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	
	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
	0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	
YY18441	0.42	0.002	0.74	1.73	18.9	<0.02	<10	140	0.63	2.05	0.28	0.54	35.9	7.0	22	
YY18442	0.51	0.014	0.80	1.52	11.9	<0.02	<10	130	0.54	1.64	0.23	0.43	28.4	4.2	19	
YY18443	0.50	0.002	0.46	1.83	18.0	<0.02	<10	150	1.24	1.41	0.32	0.47	33.6	6.1	20	
YY18444	0.47	0.002	0.25	1.82	22.7	<0.02	<10	120	0.63	1.33	0.28	0.27	26.1	4.1	19	
YY18445	0.52	0.004	0.63	1.72	21.5	<0.02	<10	120	0.60	1.22	0.31	0.21	27.2	4.8	20	
YY18446	0.36	0.006	0.62	1.80	24.6	<0.02	<10	120	0.61	1.21	0.30	0.39	29.4	4.9	22	
YY18447	0.69	0.004	0.58	1.82	38.4	<0.02	<10	140	0.70	1.08	0.43	0.27	33.1	8.1	26	
YY18448	0.44	0.002	0.19	1.54	22.3	0.04	<10	160	0.77	1.11	0.55	0.17	40.3	6.1	20	
YY18449	0.57	0.003	0.16	1.94	33.3	0.05	<10	170	1.17	1.19	0.62	0.20	39.9	7.2	25	
YY18450	0.51	0.002	0.10	3.09	33.8	<0.02	<10	220	1.46	0.67	0.83	0.23	42.5	8.9	39	
YY18451	0.45	0.002	0.20	2.24	25.8	<0.02	<10	140	0.89	0.81	0.37	0.17	31.8	6.8	26	
YY18452	0.51	0.007	0.19	1.99	26.8	<0.02	<10	110	0.91	1.25	0.66	0.18	33.3	6.4	18	
YY18453	0.41	0.002	0.35	2.18	11.3	<0.02	<10	150	1.30	1.29	0.57	0.18	38.4	6.0	21	
YY18454	0.47	0.002	0.07	2.59	12.9	<0.02	<10	130	1.43	0.91	0.81	0.26	36.9	7.9	19	
YY18455	0.55	0.001	0.16	2.03	11.5	<0.02	<10	140	1.08	1.58	0.40	0.31	42.1	9.8	19	
YY18456	0.39	0.003	0.18	1.80	10.9	<0.02	<10	160	0.54	1.37	0.28	0.39	33.3	6.2	19	
YY18457	0.38	<0.001	0.53	2.07	11.3	<0.02	<10	170	0.57	2.41	0.25	0.49	30.8	5.4	21	
YY18458	0.46	0.002	0.44	2.39	12.2	0.07	<10	140	0.78	3.35	0.29	0.32	34.1	6.1	24	
YY18459	0.40	0.004	1.64	3.07	25.7	<0.02	<10	200	1.49	8.14	1.00	0.46	47.3	6.5	16	
YY18460	0.46	0.001	0.36	1.90	8.8	<0.02	<10	130	0.58	2.54	0.28	0.22	30.1	6.3	20	
YY18461	0.30	<0.001	0.58	2.07	6.6	<0.02	<10	140	0.68	3.22	0.58	0.23	18.85	3.9	13	
YY18462	0.45	<0.001	0.19	2.53	14.9	<0.02	<10	120	0.63	3.09	0.23	0.20	29.6	9.9	28	
YY18463	0.47	0.002	0.18	2.29	15.7	<0.02	<10	120	0.54	2.69	0.23	0.18	28.3	7.7	27	
YY18464	0.40	0.002	0.05	2.71	12.6	<0.02	<10	140	0.81	2.87	0.52	0.21	38.4	10.2	23	
YY18465	0.43	0.002	0.16	2.45	13.4	<0.02	<10	150	1.02	1.91	0.52	0.22	38.2	8.5	23	
YY18466	0.50	0.001	0.06	2.97	10.5	<0.02	<10	160	1.40	0.86	1.12	0.11	49.6	6.8	19	
YY18467	0.58	0.001	0.14	2.61	14.9	<0.02	<10	200	1.05	2.33	0.54	0.24	39.8	6.9	20	
YY18468	0.60	0.002	0.14	2.68	23.6	<0.02	<10	220	0.80	2.04	0.34	0.29	37.4	12.2	28	
YY18469	0.62	0.002	0.14	2.04	17.1	<0.02	<10	230	0.54	2.12	0.39	0.22	40.5	10.3	26	
YY18470	0.47	0.004	0.66	2.54	105.0	<0.02	<10	170	0.95	0.72	0.66	0.54	35.8	8.0	43	
YY18471	0.47	0.001	0.20	1.96	20.7	<0.02	<10	170	0.78	0.56	0.72	0.29	39.9	8.3	30	
YY18472	0.41	0.001	0.63	2.54	17.7	<0.02	<10	120	0.77	1.65	0.41	0.45	28.0	7.9	23	
YY18473	0.37	0.001	0.31	2.21	13.3	<0.02	<10	140	1.06	0.69	0.19	0.60	39.8	5.7	19	
YY18474	0.41	0.001	0.34	3.33	79.4	<0.02	<10	140	1.29	1.02	0.75	0.56	46.8	13.2	19	
YY18475	0.39	0.004	0.44	2.09	393	<0.02	<10	120	0.66	1.01	0.63	0.68	45.5	8.2	19	
YY18476	0.43	<0.001	0.08	3.28	12.6	<0.02	<10	200	1.27	0.84	1.01	0.34	59.8	8.6	15	
YY18477	0.43	<0.001	0.16	3.17	19.3	<0.02	<10	150	2.68	0.91	1.76	0.40	49.9	7.1	9	
YY18478	0.68	0.001	0.76	2.21	76.2	<0.02	<10	170	1.98	4.02	1.12	0.81	88.6	12.5	10	
YY18479	0.42	0.004	0.30	2.50	38.7	0.05	<10	170	0.88	2.38	0.34	0.60	36.0	16.7	32	
YY18480	0.22	0.004	1.41	2.29	46.8	<0.02	<10	110	0.74	1.76	0.13	0.68	22.4	4.8	24	



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
YY18441		1.95	37.4	2.72	6.13	<0.05	<0.02	0.04	0.027	0.06	23.0	21.6	0.45	350	18.30	0.01
YY18442		1.81	42.6	2.01	6.32	<0.05	<0.02	0.05	0.027	0.05	17.0	13.0	0.30	161	15.05	0.02
YY18443		1.99	42.6	2.71	7.66	<0.05	<0.02	0.03	0.026	0.06	20.6	13.2	0.36	308	7.91	0.02
YY18444		2.28	21.6	2.28	8.55	<0.05	<0.02	0.02	0.021	0.06	15.5	12.3	0.38	190	6.72	0.02
YY18445		2.08	26.7	2.30	6.88	<0.05	<0.02	0.04	0.022	0.05	16.6	13.8	0.36	197	8.68	0.02
YY18446		2.22	29.0	2.41	7.41	<0.05	<0.02	0.04	0.024	0.07	17.8	15.1	0.39	175	7.52	0.01
YY18447		2.06	27.8	3.23	7.09	<0.05	<0.02	0.03	0.026	0.07	20.7	19.1	0.45	321	6.99	0.02
YY18448		1.77	29.5	2.30	5.67	0.05	0.03	0.02	0.021	0.05	24.4	13.5	0.40	245	3.49	0.02
YY18449		2.76	33.9	2.63	7.11	0.05	0.06	0.03	0.049	0.08	24.1	18.3	0.52	280	4.99	0.02
YY18450		5.48	32.6	3.10	10.60	0.06	0.07	0.01	0.033	0.31	25.6	26.0	0.85	353	4.12	0.02
YY18451		2.60	27.1	2.95	8.27	0.05	0.04	0.03	0.027	0.06	18.0	17.1	0.47	222	3.86	0.02
YY18452		3.48	25.5	3.36	9.50	0.05	0.02	0.02	0.024	0.07	21.5	14.4	0.40	276	4.97	0.02
YY18453		4.15	34.9	2.62	9.99	0.06	0.02	0.04	0.026	0.06	23.4	18.6	0.45	203	8.18	0.02
YY18454		4.82	27.8	3.21	11.90	0.08	0.04	0.03	0.029	0.07	22.5	22.8	0.44	313	5.67	0.01
YY18455		2.93	31.3	3.14	10.25	0.08	0.02	0.02	0.026	0.07	25.6	16.7	0.42	464	8.11	0.01
YY18456		2.36	41.8	2.80	7.97	0.06	0.03	0.02	0.026	0.07	20.7	14.5	0.41	276	17.95	0.02
YY18457		2.37	45.5	2.67	9.75	0.06	<0.02	0.01	0.026	0.09	18.9	14.2	0.42	235	15.80	0.02
YY18458		3.25	73.1	3.23	8.70	0.07	0.02	0.05	0.036	0.08	20.9	23.3	0.46	254	17.35	0.02
YY18459		5.18	158.0	2.96	9.76	0.08	<0.02	0.06	0.048	0.13	33.9	25.8	0.44	393	26.3	0.03
YY18460		3.21	56.1	2.78	7.72	0.05	0.02	0.04	0.025	0.08	19.1	21.5	0.42	271	15.75	0.02
YY18461		3.75	60.4	1.81	7.80	<0.05	<0.02	0.06	0.021	0.08	12.7	15.6	0.30	270	25.0	0.02
YY18462		3.58	45.8	3.69	8.99	0.07	0.05	0.04	0.031	0.07	16.7	22.8	0.54	377	5.43	0.02
YY18463		2.73	33.9	3.53	9.53	0.06	0.03	0.04	0.035	0.06	15.7	19.4	0.50	266	3.20	0.01
YY18464		4.68	56.7	4.18	10.20	0.09	0.02	0.01	0.030	0.12	24.7	24.8	0.65	391	7.28	0.02
YY18465		3.77	36.5	3.44	9.28	0.08	<0.02	0.03	0.030	0.07	22.1	23.1	0.54	306	2.97	0.02
YY18466		7.47	18.7	2.65	9.15	0.08	0.03	0.03	0.024	0.09	28.6	16.1	0.45	288	1.30	0.02
YY18467		3.64	31.4	3.03	8.92	0.06	<0.02	0.04	0.031	0.08	22.9	19.6	0.48	251	2.45	0.02
YY18468		3.01	32.8	3.57	8.41	0.08	0.02	0.04	0.033	0.11	19.1	25.7	0.60	397	2.54	0.02
YY18469		2.41	33.0	3.05	7.08	0.09	0.05	0.02	0.028	0.09	20.5	23.5	0.62	325	1.91	0.02
YY18470		5.11	45.6	3.14	8.57	0.08	0.04	0.03	0.040	0.09	20.7	23.5	0.65	279	7.03	0.02
YY18471		3.66	31.2	3.01	6.59	0.08	0.04	0.02	0.027	0.07	23.1	16.4	0.53	315	2.47	0.02
YY18472		3.98	35.1	3.60	10.15	0.05	0.03	0.03	0.037	0.08	15.9	21.7	0.47	301	6.73	0.01
YY18473		2.62	29.4	2.60	8.10	0.06	0.02	0.06	0.030	0.06	25.4	14.9	0.27	223	3.80	0.02
YY18474		7.16	60.2	4.10	10.90	0.08	0.13	0.02	0.044	0.15	32.9	33.2	0.74	405	3.08	0.02
YY18475		4.34	30.6	4.17	9.64	0.08	0.02	0.03	0.048	0.13	31.7	19.5	0.54	495	4.11	0.02
YY18476		12.50	36.8	4.57	13.70	0.12	0.05	0.02	0.031	0.30	41.2	34.4	0.81	556	2.58	0.02
YY18477		13.00	65.6	3.57	16.45	0.13	0.07	0.01	0.035	0.17	33.9	27.1	0.50	351	5.55	0.01
YY18478		5.68	178.0	4.56	11.10	0.15	0.06	0.01	0.058	0.15	61.5	41.7	0.83	886	15.15	0.02
YY18479		2.70	95.2	3.65	7.32	0.07	0.10	0.02	0.044	0.08	19.1	24.7	0.62	499	5.71	0.02
YY18480		3.86	46.5	3.61	11.90	0.05	0.05	0.07	0.037	0.05	12.6	17.0	0.30	146	5.98	0.01



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY18441		1.05	13.3	750	43.4	14.5	<0.001	0.01	0.44	2.8	0.4	0.5	49.2	<0.01	0.03	3.9
YY18442		0.79	10.9	490	36.1	12.9	<0.001	0.01	0.29	1.7	0.3	0.5	40.8	<0.01	0.04	0.8
YY18443		0.96	11.6	690	35.1	14.1	<0.001	0.01	0.35	2.0	0.4	0.5	47.6	<0.01	0.03	1.2
YY18444		1.25	9.9	360	34.9	13.2	<0.001	<0.01	0.34	2.1	0.3	0.6	44.2	<0.01	0.03	2.0
YY18445		0.88	11.3	640	36.7	11.9	<0.001	0.02	0.34	1.8	0.4	0.5	42.6	<0.01	0.03	0.7
YY18446		1.10	12.5	660	41.1	13.7	<0.001	0.01	0.32	2.1	0.4	0.5	42.5	<0.01	0.03	1.1
YY18447		1.33	17.1	910	45.6	12.9	<0.001	0.01	0.44	3.1	0.4	0.5	51.4	<0.01	0.04	5.8
YY18448		1.49	12.6	860	28.5	9.9	<0.001	<0.01	0.36	3.5	0.4	0.5	72.3	0.01	0.02	9.5
YY18449		1.58	15.7	750	34.8	14.1	<0.001	<0.01	0.40	4.4	0.4	0.5	92.5	0.02	0.03	14.4
YY18450		2.44	22.6	710	28.9	35.6	<0.001	<0.01	0.32	6.4	0.4	0.6	172.5	0.01	0.03	11.9
YY18451		1.93	17.0	550	28.7	12.1	<0.001	<0.01	0.39	4.1	0.5	0.6	48.6	<0.01	0.03	6.9
YY18452		1.86	11.0	910	27.1	12.6	<0.001	0.01	0.41	3.0	0.2	0.5	92.1	0.01	0.03	10.5
YY18453		1.68	13.9	750	23.6	14.4	<0.001	0.01	0.36	3.7	0.5	0.6	76.1	0.01	0.03	3.9
YY18454		2.02	15.8	700	21.9	10.8	0.001	0.01	0.66	3.7	0.5	0.7	110.5	0.01	0.03	7.6
YY18455		1.87	12.5	700	23.3	14.4	<0.001	0.01	0.52	3.5	0.4	0.7	56.7	0.01	0.05	8.4
YY18456		1.36	12.7	830	17.7	17.7	<0.001	0.02	0.39	2.7	0.6	0.7	101.0	<0.01	0.03	4.0
YY18457		1.28	14.7	680	22.8	25.7	0.001	0.02	0.41	2.8	0.6	0.8	57.0	<0.01	0.03	2.0
YY18458		1.45	14.6	680	37.8	23.7	0.001	0.02	0.44	3.3	0.4	0.7	61.2	<0.01	0.05	4.0
YY18459		0.98	11.1	1240	133.5	28.8	0.001	0.05	0.64	3.0	0.8	0.6	264	0.01	0.06	3.0
YY18460		1.33	12.6	800	18.0	20.8	<0.001	0.02	0.36	2.5	0.3	0.6	79.3	<0.01	0.04	3.5
YY18461		0.84	7.7	560	14.9	15.5	0.001	0.04	0.32	1.5	0.5	0.5	174.0	<0.01	0.05	0.9
YY18462		1.93	20.7	710	21.5	16.7	0.001	0.02	0.56	3.6	0.7	0.8	42.7	<0.01	0.06	7.7
YY18463		1.82	17.7	520	22.1	13.4	<0.001	0.02	0.50	3.4	0.8	0.9	53.1	<0.01	0.07	5.8
YY18464		1.52	15.0	1230	25.3	20.8	0.001	0.04	0.41	3.7	0.5	0.8	146.0	0.01	0.08	10.6
YY18465		1.27	17.3	1050	30.4	13.3	0.001	0.02	0.45	3.2	0.6	0.8	119.0	<0.01	0.02	2.5
YY18466		0.81	11.9	850	12.6	14.5	<0.001	0.01	0.50	3.7	0.5	0.7	148.0	<0.01	0.03	6.1
YY18467		1.37	11.9	880	23.7	11.2	<0.001	0.02	0.36	3.5	0.5	0.8	141.0	0.01	0.04	3.5
YY18468		1.82	19.6	750	25.9	20.8	<0.001	0.02	0.45	4.8	0.4	0.8	58.3	<0.01	0.06	5.6
YY18469		1.96	19.9	700	24.2	19.2	0.001	0.02	0.46	4.7	0.3	0.7	70.2	<0.01	0.07	8.1
YY18470		2.04	25.1	790	113.5	19.3	<0.001	0.01	1.25	4.9	0.5	0.7	109.5	0.01	0.03	7.4
YY18471		1.31	20.0	890	36.4	13.4	<0.001	0.01	0.54	3.9	0.4	0.6	104.0	0.01	0.02	7.5
YY18472		2.03	16.2	490	63.6	17.7	<0.001	0.02	0.77	3.4	0.4	0.9	72.2	0.01	0.04	7.1
YY18473		1.30	12.6	810	41.7	15.6	0.001	0.03	0.49	2.3	0.7	0.6	46.8	0.01	0.04	1.3
YY18474		1.18	15.7	1250	55.5	30.9	<0.001	0.01	0.81	5.0	0.8	1.0	167.5	0.01	0.04	26.7
YY18475		1.47	12.8	1590	478	27.5	0.001	0.02	3.07	3.2	0.3	0.7	159.0	<0.01	0.04	22.5
YY18476		1.81	11.5	1850	34.6	62.8	<0.001	0.01	0.44	5.6	0.4	1.2	243	0.01	0.02	41.5
YY18477		1.07	6.4	1560	51.4	44.6	<0.001	0.01	0.61	5.0	0.5	0.9	260	<0.01	0.05	36.2
YY18478		0.83	6.0	1900	37.1	21.9	<0.001	0.01	1.25	6.5	0.7	0.8	326	<0.01	0.03	48.5
YY18479		1.61	27.0	780	66.1	16.2	<0.001	0.02	0.81	4.5	0.6	0.6	49.7	<0.01	0.04	8.7
YY18480		2.53	13.1	420	53.6	16.0	0.001	0.03	0.75	3.2	0.5	1.0	30.8	<0.01	0.06	3.7



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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18441		0.073	0.17	3.93	57	3.75	5.37	87	0.6
YY18442		0.059	0.13	4.36	44	1.96	4.17	51	<0.5
YY18443		0.071	0.14	4.39	63	1.05	4.73	60	<0.5
YY18444		0.084	0.15	1.80	57	2.22	3.24	62	0.5
YY18445		0.061	0.15	3.29	51	0.82	3.77	56	<0.5
YY18446		0.071	0.14	3.19	54	0.99	4.02	60	<0.5
YY18447		0.076	0.14	2.97	69	1.82	5.61	73	0.5
YY18448		0.088	0.12	2.81	51	1.87	8.19	51	1.2
YY18449		0.110	0.16	2.90	57	1.78	7.99	68	2.5
YY18450		0.180	0.33	2.37	62	0.54	8.58	83	3.2
YY18451		0.106	0.17	2.41	64	0.68	5.03	60	2.1
YY18452		0.097	0.15	2.82	78	2.86	4.29	57	0.9
YY18453		0.093	0.16	4.73	57	1.51	6.31	58	0.6
YY18454		0.104	0.16	2.47	67	6.08	4.93	58	1.2
YY18455		0.106	0.17	3.15	69	3.05	4.69	58	0.9
YY18456		0.086	0.15	2.99	64	2.16	4.37	54	0.8
YY18457		0.092	0.19	2.75	66	4.04	3.58	77	0.7
YY18458		0.090	0.19	4.47	67	3.81	4.35	68	0.7
YY18459		0.055	0.28	11.60	52	9.37	7.07	131	<0.5
YY18460		0.083	0.16	4.76	59	4.45	4.03	55	0.7
YY18461		0.041	0.15	4.48	37	5.48	2.83	51	<0.5
YY18462		0.114	0.21	2.79	75	6.54	4.00	64	1.6
YY18463		0.109	0.19	2.14	78	3.22	4.14	57	1.2
YY18464		0.117	0.32	3.85	83	25.9	4.79	69	0.8
YY18465		0.084	0.21	3.90	72	1.93	6.15	61	0.5
YY18466		0.061	0.29	2.40	57	0.84	6.63	45	0.8
YY18467		0.078	0.26	3.00	63	4.53	5.89	52	<0.5
YY18468		0.108	0.26	2.71	73	4.90	6.76	75	0.9
YY18469		0.127	0.23	2.51	67	5.48	7.44	64	1.8
YY18470		0.133	0.26	2.03	81	0.75	5.91	107	1.7
YY18471		0.114	0.17	1.47	69	3.58	6.37	70	1.5
YY18472		0.106	0.25	1.43	78	2.82	3.20	74	1.4
YY18473		0.069	0.15	2.32	57	5.04	5.18	51	0.7
YY18474		0.114	0.36	2.58	76	13.85	5.56	104	4.2
YY18475		0.104	0.31	2.99	86	2.75	4.74	180	0.7
YY18476		0.135	0.71	3.84	81	6.63	6.20	87	1.6
YY18477		0.090	0.61	5.76	64	1.53	5.91	84	2.0
YY18478		0.079	0.23	8.65	87	6.79	16.25	110	2.3
YY18479		0.113	0.19	2.63	75	3.13	5.22	101	3.7
YY18480		0.096	0.18	1.80	84	2.31	3.06	76	2.0



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Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOD		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY18481		0.36	0.001	0.16	2.18	20.7	<0.02	<10	130	0.44	1.34	0.24	0.43	21.0	7.7	30
YY18482		0.24	0.003	0.44	2.38	73.1	<0.02	<10	200	0.88	4.12	0.32	0.71	27.8	15.1	35
YY18483		0.26	0.003	0.61	2.73	61.1	<0.02	<10	280	0.86	4.97	0.29	0.52	30.9	10.2	38
YY18484		0.34	0.001	0.29	2.01	47.4	<0.02	<10	160	0.38	2.57	0.29	0.34	24.7	10.6	31
YY18485		0.29	0.002	0.48	1.90	55.8	<0.02	<10	210	0.40	2.20	0.36	0.24	24.8	8.4	29
YY18486		0.35	0.002	0.59	2.11	64.7	<0.02	<10	230	0.48	1.82	0.34	0.23	26.8	10.5	34
YY18487		0.37	0.001	0.34	2.29	110.5	<0.02	<10	290	0.62	2.60	0.41	0.29	36.7	12.2	35
YY18488		0.33	0.005	8.48	2.33	436	<0.02	<10	170	0.73	29.2	0.82	2.80	21.6	10.5	30
YY18489		0.34	0.006	2.23	2.10	81.0	<0.02	<10	160	1.98	3.47	1.08	5.38	24.5	10.6	26
YY18490		0.39	0.009	1.34	1.85	201	<0.02	<10	180	0.87	2.05	0.56	1.51	24.3	10.2	34
YY18491		0.23	<0.001	0.75	1.21	7.2	<0.02	<10	100	0.80	0.72	0.17	0.23	17.90	2.4	10
YY18492		0.34	0.003	0.23	1.64	15.0	<0.02	<10	100	0.49	0.49	0.20	0.22	25.5	5.1	20
YY18493		0.39	0.001	0.14	1.43	16.4	<0.02	<10	100	0.24	0.54	0.14	0.19	21.0	5.4	22
YY18494		0.35	0.003	0.06	1.92	15.7	<0.02	<10	130	0.48	0.57	0.18	0.24	27.2	6.4	26
YY18495		0.35	0.003	0.08	2.20	24.6	<0.02	<10	180	0.75	0.73	0.31	0.44	35.9	11.6	28
YY18496		0.34	0.010	0.21	2.12	61.1	<0.02	<10	220	0.66	2.32	0.40	0.51	31.5	10.2	32
YY18497		0.34	0.006	1.00	1.82	97.4	<0.02	<10	140	0.48	2.58	0.31	0.99	24.0	7.1	27
YY18498		0.34	0.004	0.83	2.20	134.0	<0.02	<10	160	0.53	1.76	0.21	1.05	22.9	8.6	34
YY18499		0.39	0.001	0.11	2.14	70.8	<0.02	<10	160	0.53	1.88	0.28	0.29	21.6	9.7	35
YY18500		0.28	0.001	0.08	2.85	22.2	<0.02	<10	200	0.73	1.45	0.21	0.29	23.5	11.5	42
YY18501		0.31	0.002	0.16	2.39	24.4	<0.02	<10	220	0.63	1.71	0.21	0.23	27.9	11.3	40
YY18502		0.29	0.003	0.10	2.47	22.6	<0.02	<10	220	0.68	0.93	0.21	0.19	29.0	12.3	39
YY18503		0.41	0.001	0.24	2.04	21.0	<0.02	<10	380	0.70	1.32	0.62	0.14	35.6	10.5	35
YY18504		0.34	0.002	0.07	2.57	17.5	<0.02	<10	160	0.49	0.82	0.25	0.24	22.1	10.4	32
YY18505		0.35	0.003	0.12	1.91	17.1	<0.02	<10	160	0.44	1.08	0.21	0.19	26.7	8.1	28
YY18506		0.35	0.001	0.26	1.83	13.1	<0.02	<10	140	0.52	1.73	0.29	0.20	27.0	7.7	23
YY18507		0.37	<0.001	0.43	2.49	15.6	<0.02	<10	160	0.95	2.73	0.36	0.25	30.0	7.9	23
YY18508		0.36	0.001	0.22	1.82	10.9	<0.02	<10	150	0.61	4.10	0.26	0.19	27.4	10.2	15
YY18509		0.43	0.001	0.38	1.95	6.4	<0.02	<10	190	0.88	16.70	0.56	0.33	36.1	6.9	15
YY18510		0.39	<0.001	0.16	1.79	7.1	<0.02	<10	210	0.68	5.65	0.64	0.17	37.1	7.3	13
YY18511		0.37	0.001	0.21	2.01	10.9	<0.02	<10	150	0.81	2.46	0.24	0.29	31.3	13.7	21
YY18512		0.36	0.001	0.37	2.29	13.8	<0.02	<10	140	0.71	3.01	0.22	0.30	27.7	7.8	23
YY18513		0.43	0.001	0.41	1.71	20.3	<0.02	<10	220	0.72	3.03	0.66	0.45	40.9	7.6	13
YY18514		0.37	0.001	0.18	1.97	42.5	<0.02	<10	150	0.66	1.38	0.50	0.21	39.8	9.7	22
YY18515		0.38	0.001	0.28	1.68	30.0	<0.02	<10	140	0.71	7.55	0.56	0.24	42.3	6.5	17
YY18516		0.38	0.003	0.35	1.68	23.7	<0.02	<10	120	0.77	3.14	0.62	0.19	35.1	6.2	17
YY18517		0.42	0.003	0.45	1.76	39.1	<0.02	<10	150	0.86	2.39	0.45	0.31	43.1	6.5	21
YY18518		0.46	0.004	0.47	1.97	33.3	<0.02	<10	230	0.97	2.44	0.46	0.43	45.3	9.1	25
YY18519		0.41	0.003	0.42	1.69	20.2	<0.02	<10	210	0.54	2.20	0.35	0.23	36.2	4.5	19
YY18520		0.33	0.008	0.38	1.82	20.6	<0.02	<10	190	0.48	2.26	0.38	0.17	31.3	7.7	20



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY18481		3.01	36.2	3.21	8.05	0.05	0.04	0.03	0.028	0.08	11.5	20.4	0.50	220	3.06	0.02
YY18482		4.83	105.0	3.53	8.52	0.07	0.03	0.06	0.043	0.16	16.3	25.9	0.63	530	5.73	0.02
YY18483		3.62	97.8	3.57	8.60	0.07	0.03	0.07	0.047	0.10	17.6	26.5	0.61	309	4.49	0.02
YY18484		1.57	28.3	2.72	7.22	0.05	0.02	0.01	0.029	0.07	13.2	21.0	0.54	404	1.89	0.02
YY18485		1.89	29.0	2.31	6.88	0.06	<0.02	0.03	0.034	0.06	13.1	25.0	0.51	288	2.43	0.02
YY18486		1.95	36.3	2.73	6.94	0.06	0.03	0.07	0.033	0.07	14.0	28.3	0.60	337	2.00	0.02
YY18487		2.48	40.3	3.07	7.41	0.07	0.02	0.02	0.033	0.11	19.2	39.4	0.67	421	2.34	0.02
YY18488		5.45	181.0	5.40	8.23	0.05	0.06	0.06	0.437	0.10	8.8	20.5	0.61	1020	4.13	0.02
YY18489		3.18	170.5	4.76	6.48	0.11	0.09	0.06	0.400	0.05	15.2	16.1	0.78	2470	1.18	0.03
YY18490		1.70	58.3	3.88	6.54	0.07	0.10	0.06	0.219	0.04	14.3	16.5	0.56	906	1.69	0.02
YY18491		4.75	24.3	1.53	6.75	<0.05	<0.02	0.05	0.015	0.05	11.5	4.6	0.12	95	2.68	0.02
YY18492		3.59	24.4	2.96	9.17	<0.05	<0.02	0.03	0.022	0.06	15.5	11.4	0.29	218	3.30	0.01
YY18493		1.72	19.4	3.04	9.65	<0.05	0.03	0.01	0.019	0.05	10.8	9.6	0.31	223	2.95	0.01
YY18494		1.83	29.7	2.58	7.38	<0.05	0.03	0.03	0.027	0.05	15.6	15.7	0.40	191	2.50	0.01
YY18495		2.54	47.9	2.90	7.82	0.06	0.04	0.03	0.025	0.07	19.3	21.1	0.54	378	3.47	0.01
YY18496		2.42	52.1	3.00	7.44	0.06	0.02	0.03	0.040	0.07	18.8	22.3	0.55	346	3.06	0.02
YY18497		2.14	65.1	2.61	6.69	<0.05	0.04	0.03	0.046	0.07	13.9	15.3	0.50	296	3.61	0.02
YY18498		2.92	54.2	3.48	8.03	<0.05	0.04	0.04	0.061	0.10	12.7	21.1	0.60	382	5.65	0.01
YY18499		3.55	50.8	3.23	8.04	0.05	0.04	0.01	0.031	0.14	11.4	20.0	0.64	319	2.48	0.02
YY18500		3.48	40.2	3.82	9.20	0.05	0.11	0.02	0.036	0.12	11.2	26.9	0.73	298	1.76	0.02
YY18501		3.20	42.7	3.31	8.18	0.05	0.03	0.02	0.029	0.11	13.6	24.1	0.64	403	1.94	0.02
YY18502		2.71	46.9	3.22	7.15	<0.05	0.03	0.08	0.031	0.10	14.6	23.9	0.62	397	1.92	0.02
YY18503		3.10	48.9	3.24	7.15	0.07	0.07	0.04	0.029	0.12	20.1	20.1	0.66	489	2.05	0.03
YY18504		1.87	26.2	3.01	6.18	0.05	0.06	0.02	0.029	0.07	11.8	20.4	0.55	301	1.33	0.02
YY18505		1.43	28.6	2.71	6.66	<0.05	<0.02	0.02	0.025	0.06	13.4	14.7	0.45	284	1.77	0.02
YY18506		2.64	42.6	2.69	6.88	0.05	<0.02	0.02	0.026	0.07	15.7	16.2	0.48	292	4.35	0.02
YY18507		5.70	77.1	3.46	10.65	0.05	0.02	0.03	0.029	0.08	19.5	36.7	0.55	428	29.0	0.02
YY18508		4.22	89.8	3.44	10.60	0.06	0.03	0.02	0.029	0.09	17.3	19.8	0.52	622	17.90	0.02
YY18509		2.72	105.5	2.59	7.91	<0.05	0.02	0.02	0.020	0.07	24.6	24.6	0.51	346	19.75	0.02
YY18510		2.64	119.0	3.00	7.24	0.05	0.02	0.02	0.026	0.09	26.2	29.7	0.51	435	15.15	0.02
YY18511		2.61	89.9	3.32	8.26	<0.05	0.02	0.03	0.028	0.08	19.2	24.3	0.48	489	17.00	0.02
YY18512		3.43	106.5	3.52	9.52	<0.05	0.05	0.02	0.030	0.06	17.3	28.2	0.50	306	37.3	0.01
YY18513		2.61	95.6	2.95	7.72	0.06	<0.02	0.03	0.025	0.10	27.7	35.2	0.44	443	31.6	0.02
YY18514		2.81	57.1	3.17	7.45	0.06	0.04	0.01	0.028	0.08	23.5	25.6	0.54	487	34.6	0.02
YY18515		2.96	57.6	3.36	7.52	0.06	<0.02	0.03	0.024	0.07	27.8	21.1	0.47	301	27.4	0.02
YY18516		2.53	41.4	3.11	7.37	0.05	<0.02	0.01	0.030	0.07	23.5	19.6	0.42	313	27.5	0.02
YY18517		2.51	50.8	3.32	7.39	0.06	0.02	0.03	0.029	0.06	26.3	18.7	0.45	230	24.0	0.02
YY18518		2.25	50.0	3.28	7.84	0.06	0.02	0.05	0.045	0.07	26.6	16.1	0.48	320	14.20	0.02
YY18519		2.21	38.5	2.50	6.50	0.05	<0.02	0.05	0.029	0.05	22.4	17.5	0.37	127	15.70	0.02
YY18520		2.32	32.5	2.44	6.66	0.06	<0.02	0.05	0.027	0.05	19.2	19.5	0.41	335	16.45	0.02



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY18481		2.18	20.0	510	17.9	14.9	0.001	0.02	0.51	3.5	0.5	0.6	38.0	<0.01	0.04	2.4
YY18482		2.36	28.0	780	51.5	25.2	<0.001	0.04	0.64	5.2	0.7	0.6	60.5	<0.01	0.10	6.6
YY18483		2.79	30.0	540	53.4	18.3	0.001	0.03	0.73	5.7	0.7	0.6	50.0	<0.01	0.11	3.1
YY18484		1.59	20.9	480	50.1	12.6	<0.001	0.02	0.39	3.6	0.4	0.6	36.9	<0.01	0.03	2.3
YY18485		1.65	18.7	540	41.2	11.2	<0.001	0.03	0.33	3.8	0.4	0.6	38.5	<0.01	0.05	1.8
YY18486		1.68	22.9	580	47.3	14.0	<0.001	0.02	0.39	4.6	0.4	0.6	35.0	<0.01	0.03	1.9
YY18487		2.10	25.2	600	36.8	20.5	0.001	0.02	0.46	5.3	0.7	0.6	50.4	<0.01	0.03	4.8
YY18488		1.17	20.4	460	2400	26.6	0.001	0.08	2.02	4.6	1.2	7.1	38.7	<0.01	0.61	2.5
YY18489		0.53	31.9	340	988	7.9	<0.001	0.01	0.91	6.0	0.5	2.4	50.3	<0.01	0.21	3.5
YY18490		0.68	26.8	290	291	8.6	0.001	0.01	0.90	5.8	<0.2	1.8	28.5	<0.01	0.10	4.0
YY18491		0.94	4.3	400	18.4	19.8	<0.001	0.02	0.37	1.2	0.2	0.5	67.0	<0.01	0.05	0.9
YY18492		1.24	9.0	760	18.8	12.8	<0.001	0.01	0.46	2.1	0.2	0.7	44.2	<0.01	0.07	2.5
YY18493		1.90	11.2	380	15.2	11.0	<0.001	0.01	0.54	2.5	0.3	0.8	42.3	<0.01	0.04	3.6
YY18494		1.35	15.1	400	16.2	9.1	<0.001	<0.01	0.53	3.4	<0.2	0.6	29.5	<0.01	0.04	3.8
YY18495		1.40	20.9	590	20.3	12.7	<0.001	0.01	0.82	3.8	0.3	0.5	41.4	0.01	0.05	7.1
YY18496		1.49	20.9	650	50.4	12.5	<0.001	0.01	0.76	4.5	0.3	0.5	59.2	<0.01	0.04	4.2
YY18497		1.47	19.0	540	142.0	12.0	0.001	0.01	1.08	3.5	0.2	0.5	49.1	<0.01	0.03	6.8
YY18498		2.32	21.0	510	164.0	17.4	<0.001	0.02	1.09	4.2	0.6	0.6	36.1	<0.01	0.06	3.5
YY18499		2.14	21.3	510	43.6	20.6	<0.001	0.01	0.57	4.7	<0.2	0.6	42.7	<0.01	0.06	3.7
YY18500		2.43	29.9	310	21.5	20.4	<0.001	0.01	0.54	6.2	0.4	0.6	34.3	0.01	0.05	4.2
YY18501		1.97	27.2	530	24.5	20.4	<0.001	0.01	0.54	5.5	0.4	0.5	29.3	<0.01	0.06	2.8
YY18502		1.91	27.4	610	20.8	15.6	<0.001	0.01	0.49	5.6	0.5	0.5	27.0	<0.01	0.05	2.8
YY18503		1.36	26.2	860	45.4	18.3	<0.001	0.01	0.77	6.7	0.2	0.5	109.5	<0.01	0.07	7.4
YY18504		1.57	22.1	580	18.6	10.8	<0.001	0.01	0.51	4.1	0.6	0.5	46.5	0.01	0.06	4.5
YY18505		1.01	17.9	650	20.4	11.2	<0.001	0.01	0.47	2.9	<0.2	0.5	29.7	<0.01	0.03	1.1
YY18506		1.04	14.6	810	31.5	14.0	<0.001	0.01	0.40	2.3	0.4	0.5	60.1	<0.01	0.02	1.8
YY18507		1.78	13.8	810	38.3	21.0	<0.001	0.02	0.44	3.2	<0.2	0.8	94.8	<0.01	0.05	6.9
YY18508		2.23	8.6	840	20.1	21.3	<0.001	0.03	0.36	2.9	0.2	1.1	136.0	<0.01	0.05	14.5
YY18509		1.22	8.8	740	19.1	16.9	<0.001	0.01	0.26	2.9	<0.2	0.6	249	<0.01	0.04	9.5
YY18510		1.20	8.1	1090	19.0	14.0	<0.001	0.01	0.30	2.7	<0.2	0.5	274	<0.01	0.04	16.1
YY18511		1.71	13.9	870	20.4	18.9	<0.001	0.02	0.41	3.1	<0.2	0.6	67.6	<0.01	0.05	10.8
YY18512		1.69	14.5	440	26.1	20.0	<0.001	0.01	0.45	3.4	0.3	0.8	88.6	<0.01	0.05	10.0
YY18513		1.04	9.0	1030	24.5	24.9	<0.001	0.01	0.46	2.4	0.2	0.5	240	<0.01	0.03	7.4
YY18514		1.14	15.0	820	31.3	16.8	<0.001	<0.01	0.67	3.5	<0.2	0.6	96.0	0.01	0.04	12.9
YY18515		1.44	9.8	1140	41.3	17.8	<0.001	0.01	0.47	3.1	0.3	0.5	99.4	<0.01	0.04	19.1
YY18516		1.29	9.6	950	42.5	13.5	<0.001	0.01	0.40	2.9	0.3	0.5	108.5	0.01	0.04	14.0
YY18517		1.37	12.4	1030	65.6	16.0	<0.001	0.01	0.51	3.6	0.3	0.5	82.8	<0.01	0.03	10.0
YY18518		1.30	18.7	920	62.8	16.1	<0.001	0.01	0.64	5.1	0.7	0.6	73.8	<0.01	0.03	16.0
YY18519		1.27	10.9	840	35.0	12.9	<0.001	0.03	0.38	3.4	<0.2	0.5	71.6	<0.01	0.02	8.8
YY18520		1.17	11.1	860	32.4	12.8	<0.001	0.03	0.36	3.2	0.2	0.5	76.1	<0.01	0.03	5.0



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18481		0.117	0.17	1.12	77	3.02	3.02	60	1.4
YY18482		0.129	0.26	4.14	80	12.15	5.19	129	1.4
YY18483		0.126	0.28	3.29	85	4.42	7.61	102	1.8
YY18484		0.107	0.13	0.92	69	0.95	3.88	74	0.9
YY18485		0.099	0.16	1.66	60	0.92	4.63	71	0.8
YY18486		0.115	0.15	1.27	70	0.77	5.06	74	0.9
YY18487		0.144	0.20	1.99	73	1.51	7.71	73	1.0
YY18488		0.090	0.48	0.93	63	5.33	4.13	991	2.6
YY18489		0.070	0.28	1.28	46	1.20	17.75	1020	3.4
YY18490		0.085	0.16	1.27	58	0.93	8.39	291	5.3
YY18491		0.056	0.16	1.69	35	3.17	2.11	24	<0.5
YY18492		0.085	0.17	1.58	72	5.54	3.12	40	0.6
YY18493		0.107	0.15	0.70	83	0.75	2.13	43	1.4
YY18494		0.078	0.17	1.44	60	1.23	3.81	46	0.9
YY18495		0.084	0.21	1.51	59	2.32	4.59	71	1.7
YY18496		0.107	0.19	2.91	70	0.88	5.91	116	1.1
YY18497		0.101	0.15	2.00	64	1.91	3.73	166	1.8
YY18498		0.128	0.19	1.27	83	2.70	3.62	200	1.7
YY18499		0.150	0.21	1.10	83	1.73	3.71	86	1.7
YY18500		0.162	0.22	1.02	97	0.44	4.11	68	4.7
YY18501		0.131	0.28	1.20	81	0.54	6.00	65	1.4
YY18502		0.120	0.27	2.92	76	0.47	6.33	61	1.5
YY18503		0.117	0.25	1.92	74	0.81	10.55	70	2.8
YY18504		0.094	0.16	0.95	62	0.94	4.10	57	2.1
YY18505		0.079	0.15	1.23	63	1.60	4.40	55	0.6
YY18506		0.084	0.14	2.65	61	7.61	4.09	59	0.6
YY18507		0.113	0.18	4.14	73	12.15	4.72	79	1.1
YY18508		0.136	0.20	4.58	71	11.65	3.16	64	1.2
YY18509		0.073	0.22	8.01	52	8.46	5.68	55	0.5
YY18510		0.080	0.21	6.24	57	11.20	5.01	57	0.6
YY18511		0.096	0.14	4.17	65	13.35	4.04	69	1.2
YY18512		0.093	0.18	3.13	71	12.65	3.49	63	2.1
YY18513		0.059	0.18	4.24	53	6.85	5.26	75	<0.5
YY18514		0.087	0.21	2.99	61	2.35	4.75	88	1.9
YY18515		0.078	0.20	9.63	67	6.86	5.50	78	0.6
YY18516		0.083	0.16	3.70	65	8.34	4.71	65	0.6
YY18517		0.080	0.20	4.88	68	3.71	6.28	77	0.7
YY18518		0.079	0.21	4.17	64	6.72	9.03	84	1.2
YY18519		0.072	0.15	4.18	45	3.60	5.50	60	0.5
YY18520		0.073	0.19	3.66	55	3.53	4.85	64	0.5



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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
YY18521		0.44	0.001	0.31	1.67	32.6	<0.02	<10	190	0.52	3.01	0.39	0.19	34.6	7.4	26
YY18522		0.38	0.003	0.18	1.90	16.5	<0.02	<10	210	0.49	0.92	0.34	0.19	28.0	11.3	34
YY18523		0.35	0.008	0.23	1.95	26.4	<0.02	<10	220	0.50	1.55	0.35	0.20	31.1	9.5	33
YY18524		0.45	0.005	0.17	1.45	23.6	<0.02	<10	180	0.36	1.53	0.42	0.18	31.2	7.8	21
YY18525		0.44	0.002	0.15	1.70	20.1	<0.02	<10	170	0.34	1.77	0.34	0.16	27.3	5.9	23
YY18526		0.35	0.002	0.19	1.47	13.8	<0.02	<10	200	0.46	1.51	0.42	0.14	30.7	7.8	21
YY18527		0.40	0.001	0.18	1.48	14.1	<0.02	<10	210	0.48	1.95	0.41	0.15	32.3	8.8	22
YY18528		0.35	0.004	0.16	1.56	13.4	<0.02	<10	190	0.49	1.34	0.44	0.15	35.0	9.1	22
YY18529		0.40	0.001	0.15	1.48	11.1	<0.02	<10	210	0.52	1.64	0.43	0.12	34.4	7.4	22
YY18530		0.45	0.003	0.15	1.68	13.4	<0.02	<10	230	0.86	1.25	0.41	0.18	40.2	10.7	22
YY18531		0.41	0.001	0.08	2.00	17.0	<0.02	<10	230	1.02	1.48	0.50	0.16	42.1	14.4	20
YY18532		0.43	<0.001	0.08	2.73	11.6	<0.02	<10	300	1.29	5.92	0.73	0.25	41.2	12.5	11
YY18533		0.44	0.002	0.30	2.25	18.0	<0.02	<10	230	0.86	1.02	0.42	0.19	49.8	9.9	20
YY18534		0.39	<0.001	0.08	2.02	11.5	<0.02	<10	150	0.51	2.12	0.19	0.16	28.5	9.5	20
YY18535		0.34	0.001	0.14	2.12	14.3	<0.02	<10	190	0.63	1.69	0.28	0.21	30.0	10.9	25
YY18536		0.35	0.003	0.10	2.06	22.5	<0.02	<10	190	0.48	1.32	0.28	0.17	24.4	9.6	28
YY18537		0.36	0.001	0.44	2.21	43.7	<0.02	<10	200	0.52	8.04	0.39	0.27	23.1	9.2	26
YY18538		0.37	0.001	0.19	2.08	22.6	<0.02	<10	150	0.38	1.96	0.20	0.26	19.45	8.0	29
YY18539		0.32	0.003	0.06	1.65	14.5	<0.02	<10	200	0.34	1.21	0.33	0.11	24.3	8.7	29
YY18540		0.35	0.005	0.19	1.96	20.7	<0.02	<10	240	0.40	2.70	0.35	0.20	22.0	10.3	31
YY18541		0.37	0.002	0.17	2.20	27.2	<0.02	<10	380	0.50	3.90	0.39	0.38	21.4	17.5	40
YY18542		0.29	0.002	0.24	2.23	40.2	0.04	<10	190	0.42	4.24	0.25	0.30	21.3	11.0	42
YY18543		0.26	0.003	0.28	2.11	26.4	<0.02	<10	180	0.37	1.12	0.20	0.28	20.9	10.0	37
YY18544		0.33	0.003	0.13	1.87	20.1	<0.02	<10	220	0.39	2.05	0.34	0.20	22.6	11.1	41
YY18545		0.34	0.001	0.36	2.13	18.4	<0.02	<10	150	0.39	1.25	0.19	0.22	22.1	9.0	34
YY18546		0.28	0.001	0.56	2.22	66.5	<0.02	<10	200	0.45	4.51	0.52	0.57	19.00	8.6	29
YY18547		0.55	0.004	0.35	1.70	77.2	<0.02	<10	190	0.52	2.62	0.56	0.43	30.8	11.0	33
YY18548		0.39	0.003	0.23	1.78	24.2	<0.02	<10	220	0.38	1.92	0.34	0.25	27.6	9.5	31
YY18549		0.37	0.001	0.24	1.87	23.2	<0.02	<10	240	0.37	2.11	0.35	0.15	26.8	9.3	30
YY18550		0.33	0.004	0.23	1.76	17.8	<0.02	<10	180	0.50	1.32	0.26	0.22	22.7	6.5	26
YY18551		0.46	0.002	0.26	1.77	29.5	<0.02	<10	220	0.83	1.33	0.38	0.29	36.7	9.3	23
YY18552		0.44	<0.001	0.14	1.73	30.3	<0.02	<10	180	0.50	2.15	0.39	0.23	30.5	12.7	21
YY18553		0.42	0.002	0.14	1.59	19.5	<0.02	<10	250	0.53	1.53	0.44	0.25	38.3	9.4	27
YY18554		0.39	0.003	0.16	1.70	13.7	<0.02	<10	230	0.46	0.86	0.37	0.17	31.5	9.4	29
YY18555		0.41	0.005	0.18	1.55	21.5	<0.02	<10	180	0.39	1.66	0.39	0.23	27.6	9.1	30
YY18556		0.35	0.004	0.25	1.90	33.4	<0.02	<10	200	0.53	0.83	0.43	0.21	26.4	11.3	36
YY18557		0.27	0.002	0.50	2.23	32.7	<0.02	<10	190	0.82	1.40	0.73	0.23	26.6	9.2	32
YY18558		0.47	<0.001	0.11	3.45	19.7	<0.02	<10	150	1.57	1.09	1.45	0.25	46.5	12.4	13
YY18559		0.34	0.001	0.05	2.56	19.6	<0.02	<10	230	0.83	0.59	0.33	0.26	40.8	14.2	35
YY18560		0.41	0.002	0.04	2.23	16.2	<0.02	<10	150	0.52	0.66	0.24	0.16	31.3	8.0	28



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY18521		2.00	29.3	3.70	6.82	0.06	0.02	0.03	0.025	0.10	20.6	21.5	0.46	294	15.55	0.02
YY18522		1.50	27.2	2.60	6.22	<0.05	0.02	0.04	0.030	0.06	14.1	16.0	0.55	404	1.63	0.02
YY18523		1.53	30.9	3.30	6.43	0.05	0.03	0.06	0.032	0.05	16.5	16.5	0.51	202	2.53	0.02
YY18524		0.98	21.2	2.42	4.80	<0.05	0.02	0.03	0.021	0.04	17.0	13.4	0.35	234	4.33	0.02
YY18525		1.22	20.3	2.91	5.71	<0.05	0.02	0.04	0.023	0.04	15.2	15.3	0.38	164	12.20	0.02
YY18526		1.25	34.8	2.41	5.12	0.05	0.03	0.03	0.024	0.04	17.2	19.0	0.40	218	14.30	0.02
YY18527		1.33	35.9	2.70	5.18	0.05	0.02	0.03	0.024	0.04	18.2	18.6	0.39	288	17.70	0.02
YY18528		1.51	40.0	2.76	5.60	0.05	0.03	0.03	0.022	0.04	20.0	21.9	0.42	280	19.75	0.02
YY18529		1.37	47.4	2.65	5.22	0.05	0.03	0.05	0.021	0.04	19.9	22.4	0.46	259	11.10	0.02
YY18530		2.27	79.2	2.91	6.49	0.06	0.03	0.02	0.026	0.06	23.6	19.4	0.54	449	11.00	0.02
YY18531		3.10	95.6	3.46	7.18	0.06	0.05	0.01	0.031	0.08	25.9	21.6	0.52	675	9.87	0.02
YY18532		4.87	155.0	3.11	8.80	0.06	0.06	0.01	0.029	0.11	28.1	24.9	0.59	604	9.44	0.02
YY18533		2.78	81.1	2.92	6.95	0.06	0.07	0.03	0.032	0.05	31.9	15.8	0.53	419	3.45	0.02
YY18534		2.74	50.8	3.54	9.14	<0.05	0.05	0.02	0.024	0.09	15.7	17.9	0.57	363	11.80	0.02
YY18535		2.40	49.5	3.02	7.28	0.05	0.03	0.02	0.025	0.07	16.1	18.9	0.56	373	2.93	0.02
YY18536		1.80	32.9	2.95	7.15	<0.05	0.03	0.03	0.028	0.05	12.8	18.0	0.51	303	2.00	0.02
YY18537		2.09	41.6	3.03	7.35	<0.05	0.04	0.01	0.032	0.06	13.1	27.6	0.53	347	6.10	0.02
YY18538		1.63	27.2	3.25	7.69	<0.05	0.06	0.03	0.032	0.06	10.2	21.0	0.51	250	1.33	0.01
YY18539		1.32	32.8	2.54	5.33	0.05	0.03	0.02	0.022	0.06	12.4	15.1	0.57	314	0.74	0.01
YY18540		1.78	49.9	3.04	6.37	0.05	0.04	0.03	0.034	0.07	10.9	17.8	0.64	387	0.76	0.02
YY18541		4.20	75.9	3.34	8.78	0.09	0.05	0.01	0.039	0.34	9.8	28.5	1.13	760	0.60	0.01
YY18542		1.98	47.3	2.91	7.02	0.05	0.06	0.03	0.031	0.11	10.4	20.3	0.73	337	0.85	0.02
YY18543		1.53	36.8	2.92	6.85	<0.05	0.04	0.03	0.040	0.06	10.3	21.5	0.62	336	0.98	0.01
YY18544		1.81	42.3	2.76	5.90	<0.05	0.03	0.02	0.025	0.08	11.3	18.9	0.72	387	0.69	0.02
YY18545		1.60	31.2	2.82	8.08	<0.05	0.04	0.03	0.030	0.05	11.1	16.5	0.51	283	1.31	0.01
YY18546		2.29	73.4	3.04	8.22	<0.05	0.04	0.02	0.038	0.07	10.7	32.1	0.63	361	10.15	0.02
YY18547		2.69	56.6	2.94	5.96	0.06	0.03	0.04	0.029	0.07	16.7	26.7	0.62	462	7.90	0.02
YY18548		1.72	36.0	2.62	6.38	0.06	0.04	0.02	0.025	0.05	14.9	19.1	0.63	292	1.40	0.02
YY18549		1.59	32.1	2.63	6.31	0.05	0.02	0.04	0.027	0.05	13.5	19.0	0.57	264	1.77	0.02
YY18550		1.50	33.6	2.49	6.53	<0.05	0.02	0.03	0.025	0.04	12.2	19.5	0.46	216	2.10	0.01
YY18551		2.39	58.3	2.89	7.10	0.05	0.03	0.02	0.027	0.07	21.1	22.8	0.53	359	3.97	0.01
YY18552		1.78	52.7	3.10	6.24	0.05	0.03	0.01	0.026	0.07	18.5	20.0	0.54	563	3.24	0.02
YY18553		1.57	45.1	2.94	5.90	0.06	0.07	0.02	0.025	0.07	20.8	15.7	0.56	396	2.10	0.02
YY18554		1.07	34.0	2.66	5.38	0.05	0.05	0.03	0.025	0.04	15.7	14.6	0.54	272	1.23	0.02
YY18555		1.23	28.2	2.73	5.34	0.06	0.02	0.03	0.024	0.06	15.1	15.0	0.46	311	2.69	0.02
YY18556		1.98	32.4	2.80	6.00	0.05	0.03	0.04	0.027	0.08	13.7	19.5	0.57	437	4.20	0.02
YY18557		4.36	38.2	2.56	8.07	0.05	0.02	0.04	0.028	0.10	16.1	21.2	0.62	338	4.19	0.02
YY18558		8.77	56.4	2.78	12.15	0.09	0.04	0.02	0.025	0.24	33.7	27.6	0.55	489	2.12	0.02
YY18559		2.20	40.4	3.40	7.65	0.06	0.11	0.02	0.034	0.07	21.3	20.5	0.62	397	1.77	0.01
YY18560		2.00	29.1	3.23	8.50	<0.05	0.04	0.02	0.028	0.05	18.2	15.2	0.46	237	1.99	0.01



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY18521		1.84	14.9	1170	63.2	15.8	<0.001	0.02	0.38	3.8	<0.2	0.4	52.7	<0.01	0.03	8.3
YY18522		1.40	21.3	680	22.2	11.2	<0.001	0.01	0.47	4.3	<0.2	0.5	35.7	<0.01	0.03	3.1
YY18523		1.46	19.8	790	27.7	11.2	<0.001	0.02	0.57	4.8	0.3	0.5	41.9	<0.01	0.05	4.2
YY18524		1.27	13.4	880	18.5	8.2	<0.001	0.02	0.41	3.4	0.6	0.4	47.0	<0.01	0.02	6.0
YY18525		1.33	13.8	850	21.0	8.8	<0.001	0.02	0.41	3.1	<0.2	0.5	49.7	<0.01	0.02	5.6
YY18526		1.30	13.5	800	21.2	9.3	<0.001	0.02	0.37	4.0	0.5	0.4	76.0	<0.01	0.02	7.4
YY18527		1.25	13.0	900	22.7	9.6	<0.001	0.02	0.35	3.8	0.6	0.4	81.4	<0.01	0.03	9.2
YY18528		1.16	13.0	980	20.1	11.0	<0.001	0.02	0.32	3.8	0.6	0.4	94.0	<0.01	0.02	15.8
YY18529		1.03	13.3	880	20.1	9.9	<0.001	0.01	0.33	4.0	0.4	0.4	102.5	<0.01	0.02	10.5
YY18530		1.14	14.0	880	21.8	13.8	<0.001	0.01	0.48	4.1	0.3	0.5	168.5	<0.01	0.03	9.3
YY18531		0.95	13.2	1070	21.1	16.9	<0.001	0.02	0.40	4.1	0.4	0.5	214	<0.01	0.04	23.5
YY18532		1.08	6.8	1250	28.9	16.8	<0.001	0.01	0.29	3.4	0.4	0.6	622	<0.01	0.04	32.4
YY18533		0.75	13.1	430	32.7	10.5	<0.001	0.01	0.38	4.6	0.3	0.5	293	<0.01	0.02	20.9
YY18534		2.02	10.7	530	15.5	15.9	<0.001	0.03	0.38	3.9	0.4	0.7	70.4	<0.01	0.04	16.1
YY18535		1.55	17.1	600	19.8	14.1	<0.001	0.01	0.38	3.9	0.2	0.5	66.8	<0.01	0.03	7.2
YY18536		1.49	18.6	370	29.1	9.5	<0.001	0.01	0.42	4.1	0.3	0.6	47.2	<0.01	0.03	3.8
YY18537		1.71	17.0	420	35.7	9.8	<0.001	0.01	0.40	3.7	0.3	0.5	63.8	<0.01	0.04	4.9
YY18538		2.08	16.8	440	25.3	11.4	<0.001	0.01	0.38	3.7	0.4	0.6	22.1	<0.01	0.04	3.3
YY18539		1.25	18.7	550	18.6	8.8	<0.001	0.01	0.34	4.1	0.3	0.4	25.5	<0.01	0.03	2.6
YY18540		1.66	21.0	510	33.8	10.9	<0.001	0.01	0.39	4.9	0.3	0.5	27.7	<0.01	0.04	2.7
YY18541		2.80	36.6	660	56.7	34.3	<0.001	0.01	0.33	8.4	0.2	0.9	35.8	<0.01	0.05	3.5
YY18542		2.50	25.9	490	49.7	14.6	<0.001	0.01	0.57	5.0	0.4	0.5	28.0	<0.01	0.04	3.2
YY18543		1.69	24.1	300	29.7	10.4	<0.001	0.01	0.40	4.0	0.3	0.5	22.5	<0.01	0.03	2.3
YY18544		1.24	22.6	560	24.1	11.3	<0.001	0.01	0.37	3.7	0.2	0.4	32.8	<0.01	0.03	2.2
YY18545		1.90	18.6	310	25.8	10.7	<0.001	0.01	0.34	3.9	0.3	0.6	22.6	<0.01	0.03	3.0
YY18546		2.16	17.2	390	47.2	14.2	<0.001	0.01	0.38	3.6	0.2	0.6	57.2	<0.01	0.03	4.0
YY18547		1.57	19.9	750	35.9	12.9	<0.001	0.02	0.44	5.4	0.3	0.4	43.3	<0.01	0.03	5.8
YY18548		1.77	19.4	620	29.9	11.5	<0.001	0.01	0.34	4.4	0.4	0.5	36.8	<0.01	0.03	4.4
YY18549		1.58	18.6	540	30.2	12.4	<0.001	0.01	0.33	4.4	0.3	0.5	32.3	<0.01	0.03	3.6
YY18550		1.51	14.6	450	21.8	11.4	<0.001	0.01	0.27	3.5	0.3	0.5	29.4	<0.01	0.03	3.1
YY18551		1.52	14.6	780	24.8	13.8	<0.001	0.01	0.39	3.7	0.2	0.5	81.8	<0.01	0.03	8.4
YY18552		1.49	13.2	1050	28.4	12.1	<0.001	0.01	0.43	2.8	0.3	0.4	101.5	<0.01	0.02	9.7
YY18553		1.35	18.8	820	21.0	12.6	<0.001	0.01	0.52	4.8	0.4	0.5	65.8	<0.01	0.03	13.0
YY18554		1.22	20.6	680	16.2	8.3	<0.001	0.01	0.49	4.7	0.3	0.5	38.9	<0.01	0.02	4.2
YY18555		1.36	17.1	810	23.0	10.7	<0.001	0.02	0.40	3.9	0.4	0.4	34.2	<0.01	0.03	4.2
YY18556		1.38	21.4	770	31.0	12.9	<0.001	0.03	0.39	4.0	0.5	0.4	39.2	<0.01	0.03	1.9
YY18557		1.56	20.0	930	48.5	16.6	<0.001	0.04	0.43	3.4	0.5	0.5	87.8	0.01	0.02	3.3
YY18558		1.61	9.6	2000	25.7	34.5	<0.001	0.01	0.32	3.1	0.4	0.6	276	<0.01	0.04	19.6
YY18559		1.51	24.5	580	26.8	14.5	<0.001	0.01	0.54	5.4	0.3	0.6	53.8	<0.01	0.03	11.7
YY18560		1.79	15.5	650	24.2	11.5	<0.001	0.01	0.41	3.9	0.4	0.7	50.1	<0.01	0.03	8.7



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18521		0.087	0.17	3.00	82	16.75	5.90	59	0.7
YY18522		0.100	0.16	1.40	61	0.62	5.69	63	0.9
YY18523		0.090	0.17	2.04	70	1.15	6.34	65	1.1
YY18524		0.075	0.11	1.84	53	2.30	6.22	49	0.9
YY18525		0.075	0.13	1.52	67	3.34	4.42	52	0.8
YY18526		0.069	0.10	3.11	54	2.53	6.65	53	1.3
YY18527		0.065	0.10	3.57	56	1.76	6.79	52	1.0
YY18528		0.066	0.13	4.83	59	5.37	6.85	56	1.2
YY18529		0.076	0.13	5.01	57	3.72	7.71	57	1.1
YY18530		0.089	0.13	3.85	58	2.68	7.53	69	1.4
YY18531		0.072	0.21	5.35	65	2.91	6.75	66	2.0
YY18532		0.062	0.35	7.26	54	1.99	5.05	90	2.4
YY18533		0.058	0.23	3.72	56	4.77	7.46	102	3.3
YY18534		0.106	0.19	3.27	70	5.65	3.51	56	2.2
YY18535		0.088	0.15	2.89	64	5.02	4.85	61	1.2
YY18536		0.083	0.13	1.39	66	1.16	3.97	59	1.3
YY18537		0.077	0.14	1.75	67	3.50	3.64	70	1.5
YY18538		0.099	0.11	0.64	73	0.61	3.25	65	2.7
YY18539		0.101	0.10	0.94	60	0.69	5.75	58	1.3
YY18540		0.123	0.11	0.86	71	0.46	5.38	69	1.8
YY18541		0.239	0.27	0.55	89	1.43	5.58	104	2.2
YY18542		0.142	0.15	0.67	77	0.40	4.99	85	2.3
YY18543		0.111	0.12	0.78	71	0.42	3.67	75	1.8
YY18544		0.133	0.14	0.85	78	0.63	4.23	64	1.6
YY18545		0.118	0.14	0.81	80	0.81	3.62	60	2.0
YY18546		0.106	0.14	2.34	74	5.51	3.04	99	1.8
YY18547		0.111	0.14	13.85	69	6.11	7.62	94	1.8
YY18548		0.116	0.14	1.54	63	0.76	5.46	70	1.5
YY18549		0.099	0.13	1.75	62	0.75	5.95	66	1.3
YY18550		0.079	0.12	2.07	59	1.22	3.63	54	1.1
YY18551		0.083	0.15	4.37	62	2.28	5.52	63	1.1
YY18552		0.087	0.14	2.39	63	4.20	4.45	64	1.3
YY18553		0.107	0.14	1.94	64	1.43	8.40	68	3.8
YY18554		0.087	0.10	1.61	57	0.69	7.83	64	2.1
YY18555		0.078	0.11	2.65	61	1.34	6.79	57	1.0
YY18556		0.091	0.13	2.76	65	1.26	6.51	68	1.0
YY18557		0.096	0.21	3.36	59	0.77	5.34	75	0.8
YY18558		0.096	0.34	4.12	52	1.29	5.33	71	1.4
YY18559		0.102	0.14	1.61	71	1.10	6.23	68	5.3
YY18560		0.098	0.15	2.43	73	1.04	4.57	54	2.0



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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
YY18561		0.39	0.002	0.13	2.22	20.0	<0.02	<10	240	0.82	0.70	0.44	0.21	33.3	8.9	31
YY18562		0.32	<0.001	0.07	3.85	18.7	<0.02	<10	330	0.88	0.25	0.51	0.23	25.1	16.2	138
YY18563		0.45	0.003	0.21	2.70	195.0	<0.02	<10	470	0.65	0.63	0.83	1.58	29.9	21.9	115
YY18564		0.36	0.001	0.06	2.99	8.5	<0.02	<10	300	0.66	0.17	0.66	0.15	21.4	19.4	108
YY18565		0.42	0.003	0.07	2.48	9.7	<0.02	<10	260	0.47	0.24	0.33	0.17	16.45	14.0	97
YY18566		0.39	0.001	0.12	2.13	10.3	<0.02	<10	120	0.45	0.45	0.19	0.14	15.10	9.4	53
YY18567		0.37	0.001	0.18	2.42	7.2	<0.02	<10	200	0.46	0.20	0.40	0.14	13.35	11.7	99
YY18568		0.45	0.001	0.05	2.53	7.7	<0.02	<10	260	0.49	0.14	0.41	0.20	15.90	13.9	93
YY18569		0.35	0.001	0.05	2.41	7.7	<0.02	<10	260	0.50	0.16	0.33	0.13	18.10	13.7	69
YY18570		0.39	0.001	0.15	1.98	7.8	<0.02	<10	160	0.37	0.33	0.23	0.14	15.85	9.5	46
YY18571		0.36	<0.001	0.12	1.98	8.5	<0.02	<10	170	0.36	0.62	0.27	0.21	15.70	10.6	45
YY18572		0.36	0.001	0.21	1.97	14.1	<0.02	<10	180	0.42	1.27	0.23	0.24	18.05	8.9	38
YY18573		0.34	0.001	0.23	1.85	44.6	<0.02	<10	180	0.36	2.11	0.28	0.32	19.00	9.1	38
YY18574		0.47	0.017	9.90	2.01	77.4	<0.02	<10	160	0.53	6.71	0.32	1.28	21.6	8.2	38
YY18575		0.48	0.002	0.32	1.92	21.3	<0.02	<10	210	0.35	1.07	0.34	0.23	21.7	10.1	43
YY18576		0.50	0.003	0.23	2.04	22.6	<0.02	<10	220	0.43	0.92	0.27	0.22	22.1	8.5	35
YY18577		0.41	0.002	0.21	2.27	20.9	<0.02	<10	200	0.51	1.08	0.30	0.26	26.2	10.7	29
YY18578		0.40	0.004	0.38	1.86	17.7	<0.02	<10	150	0.39	0.81	0.26	0.30	25.7	8.8	27
YY18579		0.35	<0.001	1.04	1.74	18.4	<0.02	<10	160	0.53	1.00	0.28	0.27	22.0	4.4	15
YY18580		0.41	0.001	0.31	1.73	18.2	<0.02	<10	120	0.53	1.15	0.26	0.24	25.5	4.7	19
YY18581		0.46	0.001	0.28	1.70	51.2	<0.02	<10	140	0.49	1.01	0.39	0.29	28.1	6.6	19
YY18582		0.48	0.001	0.46	2.41	76.5	<0.02	<10	270	0.85	2.06	0.51	0.58	35.4	11.6	21
YY18583		0.47	0.003	0.92	2.33	46.4	<0.02	<10	260	0.65	1.01	0.60	0.33	29.9	13.1	26
YY18584		0.37	0.002	0.37	2.25	19.0	<0.02	<10	250	0.41	0.81	0.58	0.31	21.4	10.2	30
YY18585		0.49	0.001	0.20	2.46	11.0	<0.02	<10	340	0.44	0.43	0.50	0.18	17.35	14.8	32
YY18586		0.39	<0.001	0.45	1.85	14.1	<0.02	<10	100	0.26	0.54	0.17	0.12	20.8	6.2	23
YY18587		0.51	0.001	0.07	2.70	17.1	<0.02	<10	200	0.62	0.43	0.36	0.25	33.7	12.1	30
YY18588		0.30	0.002	0.31	2.16	13.4	<0.02	<10	210	0.51	0.66	0.33	0.15	26.0	13.2	31
YY18589		0.50	<0.001	0.27	1.98	19.7	<0.02	<10	180	0.45	0.52	0.37	0.16	26.1	17.5	32
YY18590		0.34	<0.001	0.41	1.29	21.5	<0.02	<10	110	0.36	0.55	0.16	0.21	20.5	5.2	15
YY18591		0.47	0.002	0.12	2.30	27.1	<0.02	<10	180	0.38	0.57	0.24	0.18	18.25	10.8	47
YY18592		0.32	0.001	0.17	1.67	17.2	<0.02	<10	130	0.30	0.29	0.22	0.21	15.05	7.4	39
YY18593		0.38	0.002	0.14	2.11	30.3	<0.02	<10	190	0.38	0.41	0.32	0.24	16.90	10.3	52
YY18594		0.40	0.002	0.15	2.10	33.8	<0.02	<10	270	0.47	0.42	0.50	0.28	23.2	12.2	57
YY18595		0.33	0.001	0.42	2.30	38.5	<0.02	<10	200	0.61	0.40	0.37	0.39	20.4	10.5	54



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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
YY18561		2.41	45.2	3.30	6.86	0.06	0.04	0.02	0.029	0.06	19.0	19.6	0.58	367	2.09	0.02
YY18562		9.68	38.0	4.54	14.30	0.10	0.06	0.02	0.041	0.53	11.8	38.4	1.66	581	5.38	0.03
YY18563		6.11	68.2	3.59	9.29	0.08	0.03	0.01	0.049	0.44	15.1	23.1	1.33	792	7.76	0.03
YY18564		6.09	37.7	3.96	9.97	0.08	0.04	0.02	0.025	0.60	11.5	31.4	1.50	407	0.79	0.02
YY18565		5.12	27.3	3.51	10.70	<0.05	0.04	0.03	0.021	0.35	8.4	21.4	1.05	315	1.12	0.02
YY18566		2.57	20.2	3.37	8.10	<0.05	0.04	0.04	0.026	0.07	8.0	22.5	0.55	224	1.24	0.01
YY18567		4.52	20.2	3.02	8.82	0.05	0.03	0.04	0.019	0.28	7.0	22.8	1.04	248	0.77	0.02
YY18568		4.97	24.8	3.30	8.78	0.06	0.05	0.02	0.019	0.35	8.4	30.1	1.18	262	0.72	0.02
YY18569		3.55	31.5	3.11	8.15	0.05	0.05	0.01	0.022	0.22	9.0	24.1	0.96	309	0.86	0.02
YY18570		2.77	29.0	2.79	7.51	<0.05	0.03	0.02	0.022	0.10	8.0	16.1	0.63	279	1.08	0.02
YY18571		2.33	29.5	2.72	6.39	<0.05	0.03	0.03	0.022	0.11	8.0	17.4	0.67	339	0.77	0.01
YY18572		2.46	31.3	2.68	6.71	<0.05	0.04	0.05	0.025	0.09	9.0	15.0	0.59	277	0.99	0.02
YY18573		2.49	39.0	2.68	7.16	0.05	0.04	0.02	0.026	0.12	9.5	14.8	0.64	314	1.67	0.02
YY18574		2.26	63.6	2.67	6.52	<0.05	0.04	0.04	0.075	0.08	12.0	17.0	0.61	269	1.65	0.02
YY18575		2.22	32.2	2.62	6.19	0.05	0.05	0.03	0.025	0.13	10.9	16.8	0.72	318	1.13	0.02
YY18576		1.78	34.4	2.66	6.81	<0.05	0.03	0.03	0.025	0.07	11.6	14.9	0.56	242	1.84	0.02
YY18577		4.75	45.9	3.53	8.30	0.05	0.03	0.02	0.029	0.11	14.9	24.0	0.61	442	5.59	0.02
YY18578		2.99	36.9	2.86	7.82	0.05	0.03	0.02	0.027	0.08	14.2	15.2	0.49	345	4.02	0.02
YY18579		5.95	37.0	2.46	8.63	<0.05	0.02	0.03	0.022	0.11	13.4	10.7	0.40	234	7.31	0.02
YY18580		2.53	17.9	2.23	8.28	<0.05	0.05	0.02	0.022	0.04	15.1	12.7	0.35	177	6.45	0.01
YY18581		2.52	19.3	2.68	7.52	0.05	0.03	0.01	0.051	0.06	17.5	14.5	0.40	311	9.26	0.01
YY18582		3.98	48.9	3.11	8.66	0.06	0.04	0.02	0.032	0.19	20.4	28.0	0.66	352	14.75	0.02
YY18583		3.92	31.9	3.10	7.19	0.06	0.02	0.04	0.028	0.18	16.9	21.5	0.68	582	26.5	0.03
YY18584		3.17	45.7	2.16	7.14	0.05	0.03	0.04	0.024	0.10	11.1	21.3	0.69	284	4.32	0.03
YY18585		4.09	47.3	3.08	8.15	0.06	0.02	0.03	0.024	0.25	8.9	21.7	0.94	573	0.84	0.02
YY18586		1.87	13.1	2.40	7.31	<0.05	0.03	0.03	0.025	0.05	11.5	11.9	0.40	193	3.69	0.02
YY18587		2.15	23.9	3.38	7.60	<0.05	0.10	0.03	0.034	0.07	19.5	17.7	0.53	322	1.77	0.02
YY18588		2.77	20.7	2.66	6.83	<0.05	0.02	0.04	0.027	0.06	13.9	15.9	0.52	641	4.37	0.02
YY18589		3.31	24.4	3.02	6.99	0.05	0.02	0.03	0.023	0.09	15.8	15.8	0.54	614	7.00	0.02
YY18590		2.70	26.6	2.49	7.54	<0.05	0.02	0.02	0.023	0.06	11.9	7.5	0.22	302	8.42	0.02
YY18591		2.28	25.5	3.04	7.09	<0.05	0.07	0.02	0.024	0.08	9.4	19.2	0.66	280	1.19	0.02
YY18592		2.21	20.8	2.40	7.00	<0.05	0.03	0.02	0.019	0.08	8.1	14.0	0.57	203	1.04	0.02
YY18593		2.84	28.3	2.87	7.61	<0.05	0.04	0.01	0.023	0.16	8.8	18.7	0.78	293	0.89	0.02
YY18594		3.54	37.1	3.06	7.41	0.06	0.04	0.01	0.022	0.24	12.0	21.9	0.94	334	0.78	0.02
YY18595		4.51	43.7	2.92	8.68	0.05	0.04	0.02	0.023	0.26	10.3	19.2	0.84	294	1.04	0.02



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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
Units		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY18561		1.28	19.5	690	27.8	13.5	<0.001	0.01	0.49	4.6	0.3	0.6	62.9	<0.01	0.03	9.5
YY18562		7.31	39.2	1060	36.9	53.0	<0.001	0.01	0.24	11.6	0.5	0.7	100.5	0.01	0.05	5.2
YY18563		3.57	49.8	1400	47.4	41.5	<0.001	0.04	0.68	8.0	0.9	0.4	92.9	<0.01	0.05	3.9
YY18564		4.20	67.8	870	11.1	51.7	<0.001	0.01	0.28	7.7	0.2	0.7	77.1	0.01	0.03	5.0
YY18565		5.54	53.3	500	10.6	36.9	<0.001	0.02	0.35	5.8	0.3	0.6	54.2	0.01	0.05	3.0
YY18566		3.36	29.6	330	14.5	14.3	<0.001	0.03	0.47	3.2	0.4	0.6	22.4	<0.01	0.06	2.0
YY18567		4.48	52.0	480	11.8	25.8	<0.001	0.04	0.35	4.1	0.3	0.4	50.2	0.01	0.05	1.9
YY18568		4.92	53.0	500	12.6	30.9	<0.001	0.02	0.38	5.8	0.4	0.5	47.8	0.01	0.03	3.0
YY18569		3.54	42.7	560	9.8	22.4	<0.001	0.01	0.37	5.2	0.3	0.6	40.7	0.01	0.03	2.8
YY18570		2.32	26.5	400	20.2	15.4	<0.001	0.01	0.34	3.3	0.3	0.6	23.4	<0.01	0.03	1.3
YY18571		2.34	26.5	590	20.1	14.9	<0.001	0.01	0.35	3.6	0.5	0.6	23.3	<0.01	0.03	1.5
YY18572		2.59	23.6	390	21.8	17.4	<0.001	0.01	0.34	4.1	0.2	0.5	25.6	<0.01	0.04	1.8
YY18573		2.51	23.7	520	27.0	17.1	<0.001	0.01	0.40	4.3	0.3	0.5	31.6	<0.01	0.04	2.2
YY18574		2.16	22.1	490	1440	14.2	<0.001	0.01	13.00	4.8	0.3	0.5	31.0	<0.01	0.03	2.9
YY18575		2.12	24.1	550	45.2	15.1	<0.001	0.01	0.56	4.8	0.3	0.5	30.7	<0.01	0.03	2.8
YY18576		1.77	21.5	470	27.9	11.6	<0.001	<0.01	0.40	4.4	0.4	0.5	29.7	<0.01	0.04	2.0
YY18577		1.75	22.6	570	30.2	22.2	<0.001	0.01	0.57	3.8	0.3	0.6	46.5	<0.01	0.05	3.9
YY18578		1.44	17.8	570	23.0	15.7	<0.001	0.01	0.44	2.8	0.3	0.6	45.0	<0.01	0.03	1.9
YY18579		1.50	9.7	500	29.0	24.3	<0.001	0.02	0.43	2.0	0.3	0.7	98.7	0.01	0.05	2.0
YY18580		1.86	10.3	300	35.2	10.6	<0.001	<0.01	0.33	2.9	0.3	0.7	50.3	<0.01	0.03	8.1
YY18581		1.56	11.7	620	97.1	11.1	<0.001	<0.01	0.54	2.9	0.2	0.6	93.4	<0.01	0.03	9.5
YY18582		2.40	15.7	940	80.4	26.9	<0.001	0.01	0.41	3.5	0.2	0.6	81.6	0.01	0.05	7.6
YY18583		1.83	15.8	1030	62.5	23.5	<0.001	0.03	0.36	5.3	0.5	0.5	88.1	0.01	0.03	3.4
YY18584		1.69	19.5	690	40.3	12.8	<0.001	0.05	0.34	4.9	0.5	0.5	65.7	0.01	0.02	1.7
YY18585		2.31	21.9	680	14.6	23.3	<0.001	0.03	0.27	7.2	0.3	0.6	64.7	0.01	0.04	1.8
YY18586		1.75	14.2	260	32.8	10.3	<0.001	0.01	0.45	3.1	0.2	0.6	22.9	<0.01	0.04	2.1
YY18587		1.98	21.4	760	35.7	12.7	<0.001	0.01	0.45	4.5	0.3	0.6	52.3	0.01	0.04	8.4
YY18588		1.77	18.8	640	29.5	13.1	<0.001	0.03	0.37	3.8	0.3	0.6	44.5	<0.01	0.03	2.7
YY18589		1.97	19.2	900	32.2	18.2	<0.001	0.02	0.31	3.4	0.3	0.5	54.3	<0.01	0.04	2.5
YY18590		1.41	7.6	650	62.1	17.7	<0.001	0.01	0.42	1.8	0.5	0.7	29.6	<0.01	0.06	2.3
YY18591		2.30	26.3	340	23.3	12.1	<0.001	0.01	0.35	4.3	0.2	0.6	27.5	<0.01	0.04	3.5
YY18592		2.53	22.0	370	18.2	13.0	<0.001	0.01	0.31	2.9	0.2	0.5	26.7	<0.01	0.03	1.3
YY18593		2.85	28.2	560	26.2	19.6	<0.001	0.01	0.31	4.2	0.3	0.5	40.2	<0.01	0.04	1.7
YY18594		2.98	31.9	710	30.8	27.3	<0.001	0.01	0.31	5.8	0.4	0.5	54.3	<0.01	0.05	3.1
YY18595		4.01	31.1	640	20.7	26.5	<0.001	0.02	0.28	5.3	0.4	0.5	44.1	0.01	0.04	2.0



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18561		0.104	0.14	5.12	71	1.52	7.49	74	2.6
YY18562		0.394	0.50	1.20	121	0.35	11.30	131	2.8
YY18563		0.292	0.40	1.67	113	0.28	9.13	443	1.6
YY18564		0.317	0.32	0.83	110	0.80	5.64	59	1.6
YY18565		0.312	0.25	0.79	112	0.14	3.39	56	1.8
YY18566		0.174	0.15	0.48	85	0.32	2.44	46	1.9
YY18567		0.273	0.19	0.50	98	0.14	2.53	43	1.3
YY18568		0.288	0.23	0.55	101	0.19	3.31	50	2.2
YY18569		0.229	0.19	0.72	88	0.25	4.11	49	2.2
YY18570		0.158	0.13	0.56	76	0.23	2.82	52	1.6
YY18571		0.165	0.11	0.52	73	0.28	3.50	57	1.5
YY18572		0.149	0.13	0.63	73	0.67	3.54	57	1.7
YY18573		0.157	0.13	0.70	77	0.71	3.95	74	1.7
YY18574		0.145	0.13	1.54	73	0.51	4.83	114	2.0
YY18575		0.174	0.13	1.13	74	0.38	4.74	63	2.0
YY18576		0.121	0.12	1.34	69	0.43	4.81	60	1.4
YY18577		0.114	0.24	1.71	77	2.83	4.43	78	1.4
YY18578		0.092	0.16	1.47	68	1.42	3.96	64	1.0
YY18579		0.092	0.18	2.22	57	5.39	3.52	62	0.8
YY18580		0.096	0.15	1.29	64	1.61	3.35	49	2.3
YY18581		0.084	0.13	1.46	68	1.79	3.70	100	1.4
YY18582		0.168	0.29	2.56	73	0.87	6.31	157	1.7
YY18583		0.112	0.28	3.17	74	0.68	6.74	105	0.9
YY18584		0.136	0.18	5.77	61	0.36	5.75	84	1.0
YY18585		0.185	0.24	0.75	86	0.31	4.59	77	1.1
YY18586		0.088	0.12	0.53	62	0.53	3.08	50	1.2
YY18587		0.099	0.13	1.00	73	0.36	5.60	68	4.3
YY18588		0.096	0.16	1.62	64	1.95	5.18	56	0.9
YY18589		0.113	0.18	1.95	78	1.73	4.08	57	0.8
YY18590		0.081	0.21	1.74	62	3.52	2.26	76	0.7
YY18591		0.165	0.14	0.65	80	0.31	3.62	59	3.1
YY18592		0.156	0.12	0.54	72	0.20	2.72	49	1.3
YY18593		0.194	0.16	0.68	84	0.21	3.89	74	1.5
YY18594		0.231	0.23	0.87	91	0.20	6.97	81	1.8
YY18595		0.213	0.18	1.07	88	0.21	6.10	77	1.4



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CERTIFICATE COMMENTS	
	<p style="text-align: center;">ANALYTICAL COMMENTS</p> <p>Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g). ME-MS41</p> <p style="text-align: center;">LABORATORY ADDRESSES</p> <p>Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada. LOG-22 SCR-41 WEI-21</p> <p>Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. Au-ICP21 ME-MS41</p>



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This report is for 125 Soil samples submitted to our lab in Whitehorse, YT, Canada on 10-AUG-2019.

The following have access to data associated with this certificate:

ANDREW CARNE

JULIA LANE

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	Ultra Trace Aqua Regia ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOD		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY18601		0.38	0.001	0.24	2.32	172.0	<0.02	<10	240	0.62	4.77	0.31	0.45	20.4	20.8	43
YY18602		0.32	0.002	0.09	2.30	11.9	<0.02	<10	300	0.70	1.91	0.40	0.26	20.3	15.3	55
YY18603		0.33	0.003	0.14	1.88	21.8	<0.02	<10	180	0.38	1.24	0.24	0.30	16.85	11.0	46
YY18604		0.34	0.003	0.39	2.07	77.8	<0.02	<10	230	0.59	3.10	0.34	0.92	18.10	13.6	46
YY18605		0.28	0.002	0.18	2.08	33.7	<0.02	<10	150	0.41	1.59	0.15	0.50	14.90	8.0	43
YY18606		0.26	0.006	0.28	2.46	35.4	<0.02	<10	270	0.69	1.11	0.43	0.60	20.5	17.9	46
YY18607		0.35	0.005	0.57	2.32	243	<0.02	<10	340	0.64	2.40	0.52	0.67	22.1	16.5	57
YY18608		0.39	0.001	0.08	2.14	8.7	<0.02	<10	160	0.61	0.36	0.18	0.73	32.0	12.6	41
YY18609		0.41	0.007	0.35	2.26	11.2	<0.02	<10	340	0.77	0.46	0.59	0.25	39.6	11.4	31
YY18610		0.33	0.002	0.49	2.13	11.5	<0.02	<10	280	0.73	0.38	0.44	0.40	38.7	10.4	31
YY18611		0.46	0.004	0.28	1.89	10.7	<0.02	<10	200	0.53	0.26	0.28	0.18	28.0	9.9	34
YY18612		0.49	0.004	0.17	1.77	7.2	<0.02	<10	170	0.46	0.21	0.23	0.16	30.0	7.4	36
YY18613		0.42	0.004	0.27	1.96	7.8	<0.02	<10	240	0.40	0.18	0.29	0.32	26.1	11.2	55
YY18614		0.40	0.001	0.13	1.91	7.5	<0.02	<10	140	0.41	0.18	0.20	0.16	33.5	10.7	47
YY18615		0.42	0.003	0.10	2.12	10.0	<0.02	<10	140	0.49	0.21	0.27	0.14	31.0	12.6	42
YY18616		0.33	<0.001	0.07	1.61	5.7	<0.02	<10	90	0.41	0.26	0.17	0.12	46.0	9.1	30
YY18617		0.44	0.001	0.12	2.01	24.7	<0.02	<10	120	0.55	0.28	0.13	0.15	56.1	14.4	34
YY18618		0.39	0.001	0.05	2.42	32.6	<0.02	<10	180	0.58	0.20	0.20	0.11	45.3	17.0	45
YY18619		0.34	<0.001	0.06	1.78	14.9	<0.02	<10	80	0.52	0.28	0.14	0.09	53.3	12.0	33
YY18620		0.38	0.001	0.06	1.96	8.5	<0.02	<10	130	0.50	0.23	0.23	0.11	44.4	11.8	32
YY18621		0.47	0.001	0.08	1.71	6.3	<0.02	<10	130	0.45	0.17	0.18	0.11	33.8	8.6	23
YY18622		0.38	0.001	0.07	2.95	11.9	<0.02	<10	150	1.16	0.39	0.11	0.13	39.3	11.8	32
YY18623		0.36	0.005	0.04	2.75	12.0	<0.02	<10	130	0.75	0.21	0.16	0.15	28.5	12.0	34
YY18624		0.36	0.001	0.05	1.71	13.9	<0.02	<10	80	0.31	0.31	0.10	0.09	23.4	5.3	23
YY18625		0.40	0.001	0.06	1.84	8.2	<0.02	<10	90	0.64	0.29	0.16	0.13	29.2	7.7	23
YY18626		0.50	<0.001	0.09	2.35	6.8	<0.02	<10	130	0.58	0.30	0.26	0.06	47.8	14.6	37
YY18627		0.53	0.004	0.14	2.40	11.1	<0.02	<10	180	0.57	0.27	0.37	0.14	45.7	14.0	42
YY18628		0.45	0.002	0.10	1.85	7.6	<0.02	<10	160	0.48	0.21	0.32	0.16	51.0	10.8	33
YY18629		0.45	0.012	0.11	2.15	8.0	<0.02	<10	130	0.70	0.25	0.27	0.14	68.7	17.3	33
YY18630		0.39	0.003	0.10	2.09	10.4	<0.02	<10	100	0.68	0.33	0.13	0.10	79.7	18.0	36
YY18631		0.47	0.007	0.38	1.99	24.6	<0.02	<10	90	0.53	0.33	0.17	0.13	54.6	12.4	45
YY18632		0.50	0.003	0.22	1.79	6.4	<0.02	<10	130	0.47	0.30	0.19	0.16	50.9	10.0	43
YY18633		0.39	0.003	0.21	1.70	5.3	<0.02	<10	140	0.51	0.33	0.23	0.16	62.8	11.9	46
YY18634		0.50	0.005	0.30	1.94	9.0	<0.02	<10	180	0.50	0.32	0.29	0.17	37.9	20.1	62
YY18635		0.41	0.004	0.19	1.71	5.5	<0.02	<10	160	0.40	0.19	0.23	0.18	24.7	14.7	45
YY18636		0.46	0.004	0.18	1.75	6.5	<0.02	<10	190	0.41	0.25	0.25	0.25	26.1	23.9	45
YY18637		0.41	0.005	0.12	2.03	4.9	<0.02	<10	170	0.43	0.20	0.25	0.12	23.9	13.6	69
YY18638		0.45	0.006	0.14	1.99	5.4	<0.02	<10	220	0.45	0.19	0.46	0.21	23.9	15.2	66
YY18639		0.43	0.004	0.15	1.71	5.9	<0.02	<10	140	0.42	0.22	0.33	0.17	24.4	12.9	57
YY18640		0.37	0.005	0.20	1.65	5.9	<0.02	<10	200	0.55	0.50	0.50	0.16	34.4	11.6	37



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY18601		8.78	63.8	3.65	7.54	0.06	0.04	0.01	0.056	0.39	9.4	30.0	0.98	556	1.15	0.01
YY18602		5.08	49.1	3.35	8.06	0.07	0.04	0.02	0.031	0.32	10.0	29.1	0.94	487	1.03	0.01
YY18603		2.75	42.3	3.25	7.09	0.05	0.04	0.03	0.023	0.18	8.7	22.1	0.74	291	1.12	0.01
YY18604		4.53	53.8	3.09	8.25	0.05	0.05	0.07	0.033	0.23	8.7	23.0	0.74	425	1.08	0.01
YY18605		3.03	44.5	3.74	10.25	<0.05	0.05	0.04	0.028	0.15	7.6	19.3	0.64	252	1.45	0.02
YY18606		4.37	87.1	3.43	8.88	0.05	0.04	0.03	0.030	0.24	10.7	26.6	0.73	489	1.02	0.02
YY18607		4.70	72.0	3.63	8.89	0.09	0.03	0.02	0.035	0.44	11.6	31.0	1.04	499	1.09	0.02
YY18608		3.77	27.2	3.23	7.11	<0.05	0.03	0.03	0.032	0.07	13.6	22.5	0.77	578	1.66	0.01
YY18609		3.81	37.7	3.04	6.84	0.05	0.03	0.05	0.031	0.09	25.1	16.9	0.56	738	1.65	0.02
YY18610		2.70	31.5	2.95	6.78	0.05	0.02	0.05	0.031	0.07	27.1	16.4	0.54	723	1.69	0.02
YY18611		2.02	26.9	2.65	5.79	<0.05	0.02	0.05	0.029	0.07	16.3	17.2	0.68	450	1.52	0.01
YY18612		2.61	29.5	2.52	5.48	0.06	0.02	0.03	0.025	0.09	16.3	16.6	0.69	271	1.23	0.01
YY18613		1.64	62.4	2.94	7.08	0.05	0.02	0.02	0.028	0.10	16.2	16.4	0.87	358	1.53	0.02
YY18614		1.91	29.4	2.95	7.15	0.05	0.02	0.02	0.025	0.16	18.4	18.2	0.71	285	1.15	0.02
YY18615		2.19	24.0	3.13	6.78	0.06	0.03	0.04	0.026	0.21	16.5	21.6	0.71	302	0.85	0.01
YY18616		2.95	24.5	2.71	6.22	0.07	<0.02	0.01	0.020	0.22	24.1	19.5	0.63	180	0.89	0.01
YY18617		3.34	25.4	3.55	7.96	0.06	0.03	0.02	0.026	0.26	24.1	28.8	0.63	359	1.05	0.01
YY18618		2.84	28.0	3.74	7.68	0.05	0.05	0.03	0.031	0.23	21.2	31.4	0.74	375	0.97	0.01
YY18619		3.62	23.5	3.09	7.03	0.05	<0.02	0.01	0.021	0.14	24.0	18.4	0.64	301	0.88	0.01
YY18620		2.40	28.3	3.13	7.20	0.05	0.02	0.02	0.026	0.14	21.6	21.6	0.62	250	0.87	0.01
YY18621		2.00	27.2	2.50	5.60	<0.05	<0.02	0.03	0.022	0.07	19.8	12.7	0.47	206	0.74	0.02
YY18622		4.01	21.0	3.62	7.73	0.05	0.14	0.06	0.034	0.08	18.9	18.0	0.45	425	1.28	0.01
YY18623		2.52	20.0	3.51	5.97	<0.05	0.10	0.03	0.030	0.08	13.4	16.7	0.51	432	1.20	0.01
YY18624		1.20	12.4	3.11	11.55	<0.05	0.05	0.03	0.023	0.05	12.1	10.9	0.32	213	1.14	0.01
YY18625		5.65	15.3	2.61	6.18	<0.05	<0.02	0.02	0.023	0.11	14.6	18.0	0.46	259	0.99	0.01
YY18626		3.80	32.7	3.42	7.79	0.07	0.03	0.03	0.025	0.25	25.6	32.7	1.00	228	0.56	0.01
YY18627		3.82	36.5	3.39	7.74	0.08	0.05	0.03	0.032	0.30	25.1	32.5	0.88	258	0.61	0.02
YY18628		2.41	30.4	2.65	6.06	0.07	0.02	0.03	0.024	0.17	24.3	21.3	0.66	208	0.62	0.01
YY18629		7.22	35.9	3.38	7.55	0.08	0.02	0.02	0.028	0.29	31.2	33.6	0.84	301	0.64	0.02
YY18630		6.72	39.9	3.78	7.33	0.09	<0.02	0.02	0.029	0.37	38.0	36.5	0.83	333	0.85	0.01
YY18631		4.04	25.9	3.33	7.16	0.09	0.02	0.04	0.038	0.27	29.3	29.8	0.83	201	0.88	0.01
YY18632		4.10	27.3	2.87	6.48	0.08	0.02	0.03	0.024	0.23	27.3	21.1	0.77	189	0.95	0.02
YY18633		3.81	38.9	2.94	6.17	0.07	<0.02	0.03	0.023	0.20	33.3	20.4	0.73	268	1.36	0.01
YY18634		4.38	36.3	3.21	6.54	0.07	<0.02	0.05	0.029	0.15	19.1	21.5	1.00	860	1.26	0.01
YY18635		2.35	28.5	2.67	5.53	0.05	0.02	0.04	0.024	0.10	12.6	17.4	0.80	481	1.12	0.02
YY18636		2.42	25.2	3.02	6.46	0.05	0.02	0.04	0.027	0.10	13.0	17.4	0.83	1290	1.23	0.01
YY18637		2.86	30.4	2.96	6.42	0.06	0.02	0.04	0.022	0.09	12.9	20.1	1.19	387	0.81	0.01
YY18638		2.95	35.9	3.20	6.50	0.06	0.03	0.02	0.024	0.12	12.7	17.9	1.41	539	2.31	0.02
YY18639		2.52	25.0	2.70	5.54	<0.05	0.02	0.02	0.020	0.07	12.5	17.8	0.98	412	0.98	0.01
YY18640		2.26	27.0	2.58	5.55	0.05	0.03	0.05	0.035	0.08	17.3	15.7	0.76	502	1.10	0.01



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY18601		1.98	31.2	760	113.0	47.8	<0.001	0.02	0.43	8.9	0.5	0.4	36.2	<0.01	0.07	2.8
YY18602		2.77	35.7	740	13.4	34.3	<0.001	<0.01	0.34	7.6	0.3	0.5	41.5	0.01	0.07	2.9
YY18603		2.72	29.5	600	24.7	20.8	<0.001	0.01	0.36	4.7	0.2	0.4	27.6	<0.01	0.05	2.1
YY18604		2.73	30.4	560	132.0	25.2	<0.001	0.01	0.68	5.8	0.3	0.5	45.1	0.01	0.05	3.0
YY18605		3.61	24.4	380	38.1	19.2	<0.001	0.02	0.43	4.9	0.4	0.6	24.0	<0.01	0.08	2.3
YY18606		2.60	36.8	620	51.3	24.9	<0.001	0.03	0.41	5.6	0.4	0.5	49.6	0.01	0.13	2.7
YY18607		2.48	43.3	740	107.5	39.8	<0.001	0.02	0.61	8.7	0.4	0.5	55.6	<0.01	0.27	3.3
YY18608		1.29	28.7	490	18.5	16.6	<0.001	0.01	0.45	3.8	0.4	0.8	15.0	<0.01	0.05	3.6
YY18609		0.93	24.8	880	16.9	20.3	<0.001	0.06	0.45	3.4	0.4	0.6	30.7	<0.01	0.05	1.2
YY18610		0.85	22.4	820	77.8	17.9	<0.001	0.05	0.42	3.0	0.6	0.5	27.4	<0.01	0.04	0.7
YY18611		0.83	23.7	580	20.8	13.4	<0.001	0.01	0.43	3.7	0.4	0.5	19.0	<0.01	0.03	1.8
YY18612		0.95	26.2	490	10.2	15.1	<0.001	0.01	0.38	3.5	0.5	0.5	15.9	<0.01	0.04	2.3
YY18613		1.22	30.2	390	22.2	17.6	<0.001	0.01	0.30	3.9	0.2	0.6	18.2	<0.01	0.03	1.4
YY18614		1.67	31.3	460	10.3	20.8	<0.001	0.02	0.33	3.6	0.3	0.6	15.8	<0.01	0.03	2.3
YY18615		1.83	32.7	580	11.6	29.2	<0.001	0.01	0.36	4.1	0.3	0.6	20.9	<0.01	0.03	3.7
YY18616		1.47	25.3	470	10.4	33.7	<0.001	0.02	0.26	2.6	0.2	0.5	17.3	<0.01	0.02	2.6
YY18617		2.23	33.1	420	35.7	38.3	<0.001	0.03	0.36	3.4	0.6	0.6	17.8	<0.01	0.03	6.2
YY18618		2.39	38.8	320	11.2	32.9	<0.001	0.01	0.37	4.4	0.4	0.6	18.8	<0.01	0.04	7.5
YY18619		1.12	31.0	270	28.2	27.9	<0.001	<0.01	0.29	2.5	0.2	0.4	14.2	<0.01	0.03	7.7
YY18620		1.68	29.4	420	10.8	26.0	<0.001	0.01	0.29	3.2	0.3	0.6	20.2	<0.01	0.03	2.9
YY18621		0.66	20.9	430	9.2	13.7	<0.001	0.02	0.28	1.6	0.3	0.4	19.1	<0.01	0.03	0.4
YY18622		1.64	20.8	520	12.9	19.0	<0.001	0.01	0.46	4.6	0.4	0.7	12.8	0.01	0.05	7.5
YY18623		1.58	23.0	740	10.4	15.7	<0.001	0.01	0.53	3.9	0.2	0.5	13.7	0.01	0.03	5.2
YY18624		2.15	13.3	290	14.3	9.3	<0.001	0.01	0.49	2.6	0.3	0.8	11.5	<0.01	0.05	3.4
YY18625		0.78	16.8	670	9.9	21.6	<0.001	0.02	0.39	1.6	0.4	0.6	13.1	<0.01	0.03	1.0
YY18626		2.06	36.2	390	13.1	40.5	<0.001	0.01	0.24	4.1	0.4	0.6	21.0	<0.01	0.04	7.3
YY18627		2.33	39.6	570	17.0	47.6	<0.001	0.02	0.33	5.5	0.5	0.6	24.8	<0.01	0.04	6.5
YY18628		1.69	29.2	760	12.8	28.2	<0.001	0.02	0.38	3.9	0.4	0.5	19.5	<0.01	0.03	4.0
YY18629		2.47	49.9	480	25.7	44.8	<0.001	0.02	0.22	3.5	0.2	0.6	25.1	<0.01	0.04	7.0
YY18630		2.12	40.3	490	16.7	55.0	<0.001	0.03	0.25	3.4	0.4	0.6	15.1	<0.01	0.04	8.1
YY18631		1.97	36.1	510	76.9	40.9	<0.001	0.03	0.38	3.9	0.4	0.6	17.0	<0.01	0.03	5.0
YY18632		1.74	28.7	660	13.8	34.3	<0.001	0.07	0.26	3.5	0.4	0.5	19.6	<0.01	0.04	3.8
YY18633		1.42	33.9	660	21.3	27.7	<0.001	0.09	0.41	3.1	0.2	0.5	22.0	<0.01	0.04	3.4
YY18634		1.10	35.5	730	51.1	22.9	<0.001	0.05	0.44	3.9	0.2	0.5	19.3	<0.01	0.04	2.9
YY18635		1.11	26.3	630	15.3	15.5	<0.001	0.04	0.32	3.6	<0.2	0.4	17.3	<0.01	0.04	2.2
YY18636		1.08	24.5	710	14.9	17.8	<0.001	0.05	0.39	3.4	0.3	0.6	17.6	<0.01	0.04	1.9
YY18637		0.90	31.7	560	10.6	16.5	<0.001	0.04	0.28	3.9	0.3	0.5	15.6	<0.01	0.04	1.7
YY18638		0.97	35.9	490	12.6	12.5	0.001	0.04	0.34	4.6	0.5	0.5	23.8	<0.01	0.04	2.9
YY18639		0.81	28.5	580	13.1	11.8	<0.001	0.04	0.33	3.4	0.3	0.4	18.7	<0.01	0.04	1.9
YY18640		1.06	21.5	750	16.4	11.8	<0.001	0.08	0.41	3.6	0.4	0.9	24.2	<0.01	0.05	2.0



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Method Analyte Units LOD	ME-MS41 Ti %	ME-MS41 Tl ppm	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm
Sample Description	0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18601	0.190	0.56	0.78	101	0.64	6.43	97	1.5
YY18602	0.207	0.30	0.76	88	1.49	6.83	74	1.5
YY18603	0.184	0.16	0.57	84	0.65	3.80	69	1.5
YY18604	0.183	0.26	0.75	90	1.33	5.27	234	1.9
YY18605	0.209	0.19	0.57	105	0.71	2.82	97	2.5
YY18606	0.181	0.22	0.94	89	0.79	6.24	105	1.7
YY18607	0.195	0.34	0.89	99	0.67	7.66	128	1.4
YY18608	0.080	0.13	1.07	66	0.18	6.33	97	1.0
YY18609	0.051	0.13	1.69	58	0.22	23.1	87	0.9
YY18610	0.048	0.14	2.17	58	0.23	19.55	103	0.6
YY18611	0.058	0.11	1.27	53	0.17	9.79	77	0.7
YY18612	0.075	0.12	1.16	53	0.15	8.00	75	0.7
YY18613	0.103	0.12	0.96	70	0.14	6.97	77	0.8
YY18614	0.108	0.15	1.05	62	0.15	6.33	68	0.8
YY18615	0.122	0.20	0.99	58	0.18	6.79	71	1.3
YY18616	0.089	0.24	1.31	46	0.12	4.74	65	0.5
YY18617	0.117	0.26	1.38	54	0.20	6.34	78	1.2
YY18618	0.127	0.28	1.04	62	0.25	6.20	72	2.3
YY18619	0.052	0.19	1.07	41	0.10	4.89	66	<0.5
YY18620	0.091	0.20	1.00	53	0.19	6.40	62	0.7
YY18621	0.044	0.12	1.03	42	0.12	6.03	45	<0.5
YY18622	0.063	0.18	1.59	62	0.20	6.79	52	5.6
YY18623	0.075	0.15	0.91	60	0.22	4.42	55	3.5
YY18624	0.109	0.12	0.57	89	0.20	2.56	38	2.3
YY18625	0.042	0.18	1.15	41	0.17	5.51	55	<0.5
YY18626	0.116	0.31	1.35	47	0.11	6.35	74	1.0
YY18627	0.131	0.34	1.79	54	0.42	9.93	97	1.9
YY18628	0.108	0.23	1.49	48	0.23	9.21	73	1.0
YY18629	0.111	0.34	1.61	43	0.14	8.29	109	0.8
YY18630	0.106	0.43	2.17	45	0.08	7.19	97	0.5
YY18631	0.107	0.33	2.14	49	0.17	6.37	91	0.7
YY18632	0.097	0.27	2.00	49	0.14	5.16	77	0.6
YY18633	0.085	0.26	2.38	48	0.10	6.88	78	0.6
YY18634	0.103	0.21	1.44	62	0.23	5.57	102	0.6
YY18635	0.095	0.18	1.20	56	0.31	4.33	80	0.8
YY18636	0.091	0.18	0.91	61	0.17	5.30	86	0.6
YY18637	0.117	0.16	1.00	68	0.19	5.69	79	0.9
YY18638	0.128	0.15	1.10	77	0.29	5.38	96	1.2
YY18639	0.082	0.11	1.08	57	0.13	5.35	75	0.7
YY18640	0.065	0.13	1.73	51	0.18	8.66	74	1.0



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Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOD		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY18641		0.37	0.003	0.27	1.30	6.6	<0.02	<10	130	0.53	0.31	0.44	0.24	34.7	7.6	22
YY18642		0.46	0.004	0.17	1.59	5.5	0.05	<10	160	0.46	0.31	0.35	0.17	31.3	10.2	34
YY18643		0.42	0.004	0.33	1.64	5.9	<0.02	<10	180	0.53	0.26	0.55	0.29	32.6	10.2	31
YY18644		0.64	0.016	0.15	1.47	5.3	<0.02	<10	140	0.46	0.46	0.33	0.17	32.7	7.4	22
YY18645		0.47	0.003	0.05	1.59	8.8	<0.02	<10	90	0.42	0.35	0.14	0.15	28.0	10.0	27
YY18646		0.38	0.007	0.07	1.91	5.9	<0.02	<10	90	0.61	0.16	0.24	0.18	25.9	10.9	45
YY18647		0.43	0.003	0.07	2.13	10.7	<0.02	<10	110	0.45	0.19	0.11	0.18	19.15	6.9	27
YY18648		0.46	0.003	0.08	1.37	7.1	<0.02	<10	70	0.32	0.47	0.09	0.13	22.8	4.7	19
YY18649		0.39	0.014	0.17	1.30	6.2	<0.02	<10	170	0.46	0.39	0.54	0.16	27.0	7.0	20
YY18650		0.52	0.002	0.16	1.65	8.0	<0.02	<10	150	0.60	0.42	0.34	0.12	40.8	10.7	22
YY18651		0.50	0.007	0.20	1.90	6.7	<0.02	<10	130	0.52	0.38	0.24	0.13	46.2	9.5	40
YY18652		0.45	0.016	0.22	1.96	7.9	<0.02	<10	130	0.64	0.46	0.32	0.16	57.0	9.1	44
YY18653		0.37	0.003	0.25	1.84	9.2	<0.02	<10	150	0.63	0.45	0.40	0.20	49.7	10.9	60
YY18654		0.37	0.005	0.77	2.33	5.5	<0.02	<10	310	0.92	1.28	0.65	0.50	87.3	10.4	57
YY18655		0.45	0.009	0.71	2.25	6.5	<0.02	<10	260	0.75	1.21	0.65	0.80	70.3	16.0	78
YY18656		0.38	0.005	0.17	1.62	7.9	<0.02	<10	80	0.54	0.40	0.14	0.35	71.8	7.0	20
YY18657		0.39	0.006	1.03	1.59	9.5	<0.02	<10	150	1.11	0.57	0.27	0.33	113.0	9.3	28
YY18658		0.46	0.004	0.31	2.89	12.7	<0.02	<10	510	0.62	0.42	0.49	0.45	55.1	15.6	93
YY18659		0.39	0.001	0.35	2.20	8.0	<0.02	<10	160	0.84	0.45	0.27	0.57	78.2	12.5	30
YY18660		0.34	0.001	0.13	1.74	5.8	<0.02	<10	120	0.50	0.25	0.17	0.17	62.2	8.4	24
YY18661		0.43	0.007	0.19	2.51	4.6	<0.02	<10	210	0.70	0.15	0.32	0.11	61.5	14.3	28
YY18662		0.40	0.002	0.19	2.47	5.5	<0.02	<10	160	1.17	0.22	0.20	0.12	91.1	10.3	16
YY18663		0.45	0.004	0.16	2.04	11.8	<0.02	<10	120	1.26	0.51	0.16	0.34	161.5	9.6	26
YY18664		0.33	0.003	0.09	2.06	11.9	<0.02	<10	100	0.72	0.33	0.12	0.22	51.3	8.0	26
YY18665		0.39	<0.001	0.03	1.76	10.8	<0.02	<10	70	0.48	0.39	0.11	0.10	42.5	5.2	23
YY18666		0.37	0.002	0.12	1.70	9.2	<0.02	<10	80	0.71	0.53	0.11	0.15	70.1	5.9	19
YY18667		0.33	0.002	0.27	1.83	47.5	<0.02	<10	120	0.76	0.67	0.16	0.27	65.6	7.2	24
YY18701		0.50	0.005	0.06	2.23	7.6	<0.02	<10	290	0.48	0.15	0.45	0.12	22.6	13.5	62
YY18702		0.48	0.001	0.11	2.07	8.1	<0.02	<10	180	0.52	0.16	0.34	0.13	20.3	11.3	43
YY18703		0.53	0.004	0.09	2.08	8.3	<0.02	<10	160	0.46	0.17	0.24	0.13	20.5	11.2	49
YY18704		0.41	0.001	0.16	2.03	12.9	<0.02	<10	160	0.50	0.23	0.21	0.17	17.85	9.7	45
YY18705		0.44	0.004	0.21	1.20	8.0	<0.02	<10	70	0.27	0.25	0.09	0.15	22.7	3.5	19
YY18706		0.46	0.006	0.24	1.46	9.4	<0.02	<10	110	0.37	0.32	0.11	0.22	35.1	5.0	24
YY18707		0.43	0.005	0.55	1.58	8.3	<0.02	<10	100	0.65	0.50	0.07	0.38	114.0	4.8	19
YY18708		0.37	0.002	0.84	0.66	3.1	<0.02	<10	60	0.23	0.21	0.04	0.34	25.9	1.9	8
YY18709		0.38	0.002	0.37	1.49	7.5	<0.02	<10	100	0.50	0.40	0.12	0.30	47.1	3.6	19
YY18710		0.45	0.001	0.16	1.95	4.8	<0.02	<10	90	1.91	0.47	0.16	0.58	145.0	8.8	13
YY18711		0.40	0.005	0.20	1.53	11.7	<0.02	<10	100	0.40	0.28	0.12	0.23	28.4	5.3	23
YY18712		0.37	0.004	0.64	1.06	7.2	<0.02	<10	100	0.40	0.42	0.09	0.52	49.3	4.1	14
YY18713		0.41	0.003	0.23	1.30	7.2	<0.02	<10	70	0.36	0.25	0.09	0.32	37.3	4.3	18



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY18641		3.68	25.4	2.26	4.72	<0.05	0.02	0.03	0.032	0.06	19.1	11.6	0.49	371	1.19	0.02
YY18642		2.33	20.6	2.50	5.51	0.05	<0.02	0.03	0.028	0.11	15.4	14.2	0.69	461	1.02	0.02
YY18643		3.37	24.9	2.52	5.56	0.05	0.03	0.04	0.025	0.11	18.5	14.7	0.73	557	1.27	0.02
YY18644		1.85	18.1	2.10	4.65	0.05	0.05	0.03	0.026	0.09	16.8	14.3	0.63	222	0.99	0.01
YY18645		3.16	15.3	2.99	5.98	<0.05	0.02	0.03	0.024	0.08	12.3	15.5	0.60	518	1.07	0.01
YY18646		1.60	19.2	2.78	5.77	0.06	0.05	0.02	0.021	0.07	14.1	18.3	1.08	333	0.75	0.01
YY18647		1.03	14.4	3.11	6.42	<0.05	0.02	0.04	0.028	0.05	9.1	13.2	0.35	281	1.17	0.01
YY18648		1.94	16.5	2.38	6.87	<0.05	0.02	0.03	0.021	0.05	11.0	10.7	0.35	207	1.21	0.01
YY18649		1.71	18.1	2.26	4.32	<0.05	0.03	0.03	0.023	0.07	15.2	12.1	0.53	462	1.10	0.01
YY18650		3.04	18.5	2.61	5.07	0.05	0.03	0.03	0.027	0.07	20.9	14.7	0.73	496	1.64	0.01
YY18651		2.75	22.1	2.68	6.00	0.07	0.04	0.03	0.023	0.11	27.2	15.0	0.96	298	1.67	0.01
YY18652		2.69	21.9	2.77	6.24	0.07	0.06	0.03	0.024	0.16	31.8	16.9	1.15	284	1.81	0.01
YY18653		3.96	25.8	2.79	6.38	0.06	0.03	0.02	0.025	0.08	27.8	18.0	1.13	614	1.53	0.01
YY18654		5.13	130.5	3.46	6.95	0.13	0.07	0.03	0.034	0.48	61.4	21.6	1.91	707	2.11	0.03
YY18655		4.36	93.9	3.77	6.83	0.13	0.04	0.03	0.040	0.32	52.5	18.1	1.93	804	2.89	0.03
YY18656		1.04	24.8	2.16	4.83	<0.05	0.02	0.08	0.023	0.06	29.3	10.3	0.36	660	1.20	0.02
YY18657		2.62	25.0	2.82	5.07	0.12	0.05	0.04	0.027	0.07	69.4	12.8	0.50	939	1.37	0.01
YY18658		4.23	37.1	3.89	9.21	0.13	0.07	0.04	0.031	0.61	33.4	21.4	2.01	390	2.29	0.02
YY18659		2.70	29.0	3.33	7.23	0.08	0.06	0.04	0.024	0.38	40.5	17.1	1.27	772	1.14	0.01
YY18660		1.80	15.2	2.54	6.01	0.06	0.03	0.03	0.023	0.10	32.7	13.3	0.69	461	0.94	0.01
YY18661		3.89	48.5	3.59	7.45	0.09	0.02	0.02	0.019	0.47	37.4	17.5	1.57	712	0.72	0.02
YY18662		4.34	40.5	3.47	8.23	0.09	0.02	0.02	0.022	0.41	58.7	18.7	1.53	611	1.69	0.02
YY18663		1.43	25.4	2.76	6.13	0.10	0.11	0.03	0.030	0.09	72.6	18.1	0.51	805	2.53	0.01
YY18664		1.00	12.6	3.03	5.84	<0.05	0.07	0.03	0.029	0.06	21.4	16.4	0.37	484	1.61	0.01
YY18665		1.14	10.5	3.00	7.13	<0.05	0.02	0.05	0.026	0.07	23.1	12.6	0.33	320	1.76	0.01
YY18666		1.68	12.1	2.48	5.50	0.05	0.06	0.02	0.021	0.12	38.3	13.2	0.55	305	2.42	0.01
YY18667		1.70	17.5	2.99	5.77	0.06	0.10	0.02	0.026	0.10	40.0	13.5	0.54	439	2.26	0.01
YY18701		3.09	29.0	3.31	7.26	0.08	0.03	0.01	0.019	0.24	12.0	22.4	1.02	313	0.58	0.02
YY18702		2.55	33.4	2.95	7.75	0.06	0.03	0.02	0.021	0.13	10.9	23.9	0.77	246	1.06	0.02
YY18703		2.20	26.6	2.94	7.95	0.05	0.03	0.02	0.021	0.10	10.5	21.6	0.75	271	0.82	0.02
YY18704		2.03	31.8	2.67	7.16	<0.05	0.02	0.03	0.024	0.08	9.3	19.5	0.66	267	0.92	0.02
YY18705		0.93	19.7	1.81	6.39	<0.05	<0.02	0.03	0.020	0.05	11.9	7.3	0.28	133	1.22	0.01
YY18706		1.09	28.4	2.24	6.00	0.05	<0.02	0.03	0.019	0.06	19.5	10.5	0.39	197	1.53	0.01
YY18707		1.47	37.5	2.26	7.27	0.11	0.02	0.06	0.023	0.08	58.1	10.0	0.38	280	1.78	0.02
YY18708		0.75	25.7	1.09	4.34	<0.05	<0.02	0.03	0.013	0.03	15.5	1.9	0.07	89	0.83	0.02
YY18709		1.00	29.5	1.95	6.79	0.07	<0.02	0.05	0.022	0.07	31.9	9.0	0.33	184	1.57	0.01
YY18710		3.14	22.2	2.48	6.77	0.15	0.04	0.02	0.022	0.28	95.4	23.8	1.18	1140	2.37	0.01
YY18711		0.90	25.2	2.31	5.67	<0.05	<0.02	0.03	0.023	0.07	16.2	11.3	0.38	210	1.61	0.02
YY18712		1.66	23.7	1.78	4.86	0.06	<0.02	0.05	0.025	0.05	28.5	6.8	0.22	375	2.05	0.02
YY18713		1.17	22.8	1.95	5.79	0.05	<0.02	0.03	0.021	0.06	20.6	8.0	0.31	212	1.28	0.02



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY18641		0.63	19.1	630	17.9	9.6	<0.001	0.07	0.37	2.0	0.2	0.4	24.2	<0.01	0.05	1.8
YY18642		0.99	20.6	660	14.2	14.0	<0.001	0.06	0.31	2.7	0.2	0.6	20.6	<0.01	0.04	1.7
YY18643		0.85	21.6	690	14.9	14.2	<0.001	0.06	0.39	3.5	0.4	0.5	26.4	<0.01	0.04	1.7
YY18644		0.84	14.9	460	15.2	12.1	<0.001	0.02	0.34	3.8	0.2	0.5	17.0	<0.01	0.04	5.8
YY18645		1.00	16.9	310	19.4	13.2	<0.001	0.02	0.38	2.7	<0.2	0.5	11.1	<0.01	0.04	3.6
YY18646		0.92	26.3	480	17.7	10.2	<0.001	0.01	0.37	3.8	<0.2	0.7	17.4	<0.01	0.03	2.7
YY18647		1.34	16.9	320	10.6	7.8	<0.001	0.02	0.53	2.7	<0.2	0.6	11.7	0.01	0.04	1.6
YY18648		1.17	11.4	200	30.6	10.2	<0.001	0.01	0.40	2.2	<0.2	0.7	10.0	<0.01	0.03	3.7
YY18649		0.69	14.2	550	8.5	10.0	<0.001	0.05	0.37	2.8	<0.2	0.4	22.6	<0.01	0.06	2.0
YY18650		0.67	14.2	600	22.9	13.5	<0.001	0.04	0.35	3.7	0.4	0.5	17.2	<0.01	0.05	4.2
YY18651		1.08	22.6	600	39.4	18.1	<0.001	0.02	0.36	3.9	0.4	0.5	16.3	<0.01	0.03	8.0
YY18652		1.23	24.4	590	45.5	22.7	<0.001	0.02	0.36	4.2	0.4	0.5	17.6	<0.01	0.02	12.5
YY18653		0.99	32.3	670	37.8	20.8	0.001	0.06	0.32	3.1	0.2	0.5	21.0	<0.01	0.04	4.5
YY18654		1.73	33.4	540	80.3	40.0	0.002	0.27	0.23	3.8	0.9	0.9	31.2	<0.01	0.19	12.3
YY18655		0.86	57.2	720	98.9	22.3	0.003	0.28	0.25	5.5	0.9	0.7	39.2	<0.01	0.14	9.5
YY18656		0.66	15.9	720	31.4	8.5	<0.001	0.06	0.48	1.5	<0.2	0.4	12.5	<0.01	0.03	2.2
YY18657		0.81	21.2	720	64.8	10.2	<0.001	0.01	0.49	3.9	0.3	0.4	20.4	<0.01	0.03	14.2
YY18658		1.73	42.6	820	52.4	57.3	0.001	0.05	0.39	9.5	0.5	1.0	24.7	<0.01	0.02	12.7
YY18659		1.41	23.0	580	146.0	40.6	<0.001	0.04	0.28	4.3	<0.2	0.7	22.1	<0.01	0.03	12.5
YY18660		1.38	14.4	520	26.9	17.6	<0.001	0.03	0.28	3.0	<0.2	0.5	14.2	<0.01	0.03	5.0
YY18661		1.09	19.1	380	22.0	40.9	<0.001	0.02	0.25	6.1	<0.2	0.5	15.5	<0.01	0.02	7.6
YY18662		1.12	11.0	440	21.5	33.4	<0.001	0.02	0.22	4.5	<0.2	0.7	18.0	<0.01	0.02	13.4
YY18663		1.82	19.5	520	39.3	15.8	<0.001	0.01	0.50	4.2	<0.2	0.6	14.0	0.01	0.04	24.4
YY18664		1.63	16.0	400	14.3	11.9	<0.001	0.02	0.50	3.0	0.2	0.5	11.9	0.01	0.04	10.3
YY18665		1.50	11.0	300	15.8	11.8	<0.001	0.02	0.44	2.5	<0.2	0.6	11.8	<0.01	0.05	6.8
YY18666		1.56	11.9	320	22.0	19.4	<0.001	0.02	0.34	2.7	<0.2	0.5	13.0	<0.01	0.05	19.6
YY18667		1.40	16.8	470	68.1	17.6	<0.001	0.03	0.45	3.2	<0.2	0.5	16.0	<0.01	0.04	27.0
YY18701		1.92	38.0	820	13.1	23.0	<0.001	0.01	0.32	5.0	<0.2	0.4	39.4	<0.01	0.02	2.9
YY18702		1.74	31.1	660	14.4	17.8	<0.001	0.02	0.53	3.7	0.4	0.4	33.7	<0.01	0.02	2.0
YY18703		2.10	29.6	530	10.7	16.3	<0.001	0.02	0.38	3.8	0.2	0.5	27.6	<0.01	0.03	2.9
YY18704		1.82	27.6	490	12.9	15.4	<0.001	0.02	0.35	3.3	0.7	0.4	25.7	<0.01	0.03	1.5
YY18705		0.77	10.2	390	78.1	9.9	<0.001	0.03	0.35	1.2	0.3	0.5	9.8	<0.01	0.02	0.5
YY18706		0.91	14.3	410	82.4	13.2	<0.001	0.04	0.47	1.9	0.2	0.5	13.0	<0.01	0.02	1.7
YY18707		1.25	11.0	400	94.2	20.8	<0.001	0.03	0.45	2.0	0.5	0.6	10.8	<0.01	0.03	3.7
YY18708		0.37	4.3	320	84.4	7.7	0.001	0.03	0.20	0.4	0.3	0.4	7.1	<0.01	<0.01	<0.2
YY18709		0.80	10.3	410	97.5	15.6	<0.001	0.03	0.33	1.4	0.6	0.6	14.1	<0.01	0.02	0.9
YY18710		1.23	8.8	450	70.7	41.7	<0.001	0.02	0.27	2.7	0.5	0.5	15.5	<0.01	0.02	22.3
YY18711		0.94	15.4	370	98.1	10.9	<0.001	0.04	1.01	2.3	0.5	0.5	12.5	<0.01	0.02	3.0
YY18712		0.85	7.7	350	227	15.8	<0.001	0.03	0.31	1.2	0.2	0.4	11.0	<0.01	0.03	3.1
YY18713		0.69	9.2	500	100.5	10.6	<0.001	0.04	0.37	1.2	0.4	0.4	10.5	<0.01	0.03	0.9



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18641		0.043	0.11	1.69	38	0.16	9.19	69	0.7
YY18642		0.074	0.15	1.18	48	0.24	6.70	66	0.7
YY18643		0.071	0.14	1.42	53	0.17	11.15	87	1.0
YY18644		0.060	0.12	1.66	39	0.26	10.00	61	1.6
YY18645		0.065	0.11	0.68	54	0.14	3.84	69	0.8
YY18646		0.105	0.13	0.67	57	0.21	6.94	78	1.8
YY18647		0.075	0.11	0.49	68	0.21	2.96	48	0.9
YY18648		0.060	0.12	0.58	58	0.28	3.35	46	0.9
YY18649		0.051	0.11	1.14	41	0.30	9.02	52	1.1
YY18650		0.044	0.15	1.45	43	0.15	11.65	64	1.0
YY18651		0.092	0.21	2.36	51	0.19	7.27	105	1.6
YY18652		0.097	0.24	2.25	51	0.20	8.59	113	2.5
YY18653		0.067	0.20	2.22	52	0.22	8.07	98	1.2
YY18654		0.094	0.44	6.16	50	0.10	20.0	146	2.5
YY18655		0.067	0.26	3.76	53	0.12	22.6	158	1.7
YY18656		0.054	0.13	1.06	44	0.19	6.63	77	0.7
YY18657		0.072	0.11	2.68	51	0.29	19.50	100	2.1
YY18658		0.186	0.57	3.55	88	0.18	15.00	155	2.9
YY18659		0.143	0.37	2.56	53	0.17	11.25	324	2.7
YY18660		0.080	0.17	1.06	53	0.18	6.37	77	1.1
YY18661		0.134	0.30	1.77	78	0.15	10.05	82	1.2
YY18662		0.088	0.28	3.70	60	0.12	12.10	76	1.0
YY18663		0.080	0.26	3.75	47	0.25	14.15	81	4.0
YY18664		0.075	0.14	1.56	54	0.22	5.20	63	2.6
YY18665		0.075	0.16	1.48	61	0.21	4.44	45	1.1
YY18666		0.073	0.24	2.87	43	0.15	6.56	84	2.9
YY18667		0.074	0.20	2.83	46	0.17	9.14	99	4.4
YY18701		0.220	0.20	0.89	95	0.18	5.45	51	1.4
YY18702		0.161	0.15	0.85	85	0.20	4.25	51	1.1
YY18703		0.178	0.14	0.72	84	0.22	3.75	48	1.3
YY18704		0.150	0.13	0.84	74	0.18	3.68	50	0.9
YY18705		0.049	0.12	1.08	45	0.17	2.93	46	<0.5
YY18706		0.053	0.15	1.48	46	0.18	4.44	66	0.5
YY18707		0.059	0.24	3.56	42	0.17	10.05	79	0.8
YY18708		0.032	0.10	1.55	28	0.10	3.67	28	<0.5
YY18709		0.043	0.16	2.89	41	0.17	9.04	73	0.5
YY18710		0.065	0.44	3.92	31	0.10	13.45	202	1.9
YY18711		0.055	0.12	1.50	47	0.18	4.06	71	0.7
YY18712		0.038	0.18	2.51	30	0.11	4.98	107	<0.5
YY18713		0.046	0.14	1.98	40	0.14	4.53	97	0.5



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Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOD		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY18714		0.37	0.003	0.20	0.48	2.7	<0.02	<10	20	0.09	0.14	0.03	0.05	12.50	1.1	6
YY18715		0.51	0.002	0.15	2.03	11.9	<0.02	<10	80	0.61	0.40	0.11	0.56	58.5	4.9	25
YY18716		0.52	0.002	0.15	1.79	9.3	<0.02	<10	90	0.64	0.33	0.14	0.25	49.4	6.8	39
YY18717		0.45	0.001	0.17	1.77	9.8	<0.02	<10	110	0.57	0.35	0.17	0.29	61.5	7.1	40
YY18718		0.45	0.003	0.20	1.66	8.4	<0.02	<10	130	0.50	0.28	0.24	0.41	41.5	8.2	55
YY18719		0.43	0.003	0.13	1.59	8.6	<0.02	<10	120	0.52	0.24	0.18	0.33	48.9	7.5	42
YY18720		0.47	0.002	0.14	1.88	8.6	<0.02	<10	180	0.55	0.22	0.31	0.30	40.5	10.1	82
YY18721		0.51	0.002	0.11	1.37	9.2	<0.02	<10	100	0.38	0.22	0.16	0.28	33.0	5.5	26
YY18722		0.54	0.004	0.26	1.24	11.8	<0.02	<10	60	0.31	0.38	0.09	0.20	29.8	3.0	15
YY18723		0.45	0.004	0.23	1.34	6.5	<0.02	<10	70	0.39	0.27	0.11	0.18	41.2	4.7	18
YY18724		0.62	0.004	0.35	1.46	11.1	<0.02	<10	90	0.44	0.36	0.10	0.35	83.2	7.6	20
YY18725		0.58	0.002	0.46	1.32	13.2	<0.02	<10	100	0.37	0.31	0.08	0.33	81.2	2.4	21
YY18726		0.56	0.004	0.37	1.48	10.9	<0.02	<10	120	0.35	0.36	0.15	0.17	60.1	4.8	26
YY18727		0.64	0.005	0.28	1.57	10.3	<0.02	<10	90	0.29	0.46	0.14	0.10	45.5	4.3	22
YY18728		0.60	0.008	0.84	1.23	28.2	<0.02	<10	70	0.31	1.30	0.09	0.18	77.3	2.9	14
YY18729		0.59	0.032	2.48	1.36	50.3	0.03	<10	60	0.34	1.88	0.15	0.14	69.6	3.6	18
YY18730		0.56	0.012	0.93	0.91	19.8	<0.02	<10	100	0.23	1.11	0.06	0.09	81.3	1.4	7
YY18731		0.45	0.018	1.56	1.04	39.6	0.02	<10	90	0.23	0.98	0.12	0.15	44.5	2.6	13
YY18733		0.57	0.004	0.18	1.84	16.6	<0.02	<10	220	0.75	0.30	0.27	0.21	57.0	8.0	26
YY18734		0.41	0.001	0.03	1.50	21.5	<0.02	<10	60	0.99	0.31	0.33	0.09	78.5	8.7	15
YY18735		0.38	0.002	0.11	1.64	25.3	<0.02	<10	100	1.00	0.47	0.19	0.07	56.5	4.3	14
YY18736		0.50	0.006	0.18	1.69	46.6	<0.02	<10	130	0.82	0.39	0.22	0.19	44.4	13.5	22
YY18737		0.54	0.004	0.06	1.37	25.6	<0.02	<10	90	0.84	0.39	0.35	0.12	53.4	6.5	17
YY18738		0.41	0.003	0.13	1.13	4.2	<0.02	<10	90	0.23	0.22	0.18	0.09	26.1	3.1	15
YY18739		0.44	0.001	0.13	1.53	5.2	<0.02	<10	120	0.32	0.21	0.23	0.13	30.7	5.3	25
YY18740		0.43	0.001	0.10	1.80	6.1	<0.02	<10	120	0.49	0.22	0.19	0.11	30.9	8.0	27
YY18741		0.37	0.001	0.10	1.69	3.9	<0.02	<10	110	0.37	0.21	0.19	0.10	37.7	7.1	25
YY18742		0.45	0.001	0.09	1.69	5.0	<0.02	<10	120	0.37	0.20	0.19	0.11	38.1	9.6	28
YY18743		0.36	0.002	0.13	1.71	5.7	<0.02	<10	120	0.36	0.21	0.19	0.10	34.8	8.9	31
YY18744		0.48	0.001	0.10	1.79	5.6	<0.02	<10	110	0.36	0.24	0.17	0.10	35.9	10.3	32
YY18745		0.44	<0.001	0.07	2.03	5.5	<0.02	<10	120	0.44	0.24	0.20	0.09	40.4	12.4	36
YY18746		0.33	0.002	0.06	2.04	9.3	<0.02	<10	160	0.76	0.21	0.22	0.19	45.6	16.2	32
YY18747		0.43	0.003	0.05	2.08	6.7	<0.02	<10	170	0.66	0.19	0.30	0.15	57.5	19.7	36
YY18748		0.47	0.002	0.10	2.47	6.6	<0.02	<10	140	0.80	0.27	0.34	0.10	64.0	15.7	44
YY18749		0.42	0.002	0.10	1.97	5.6	<0.02	<10	190	0.66	0.25	0.32	0.19	58.1	14.3	43
YY18750		0.42	0.004	0.18	2.08	5.7	<0.02	<10	150	0.72	0.24	0.32	0.19	48.8	12.8	43
YY18751		0.50	0.002	0.12	2.05	6.5	<0.02	<10	160	0.66	0.25	0.30	0.14	44.0	11.7	43
YY18752		0.44	0.002	0.12	2.12	5.4	<0.02	<10	150	0.83	0.23	0.30	0.16	46.5	10.8	44
YY18753		0.46	0.004	0.17	2.09	7.0	<0.02	<10	150	0.84	0.27	0.34	0.12	50.0	11.1	42
YY18754		0.50	0.011	0.14	1.95	7.0	<0.02	<10	120	0.71	0.23	0.26	0.11	48.3	11.4	42



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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY18714		0.64	5.6	0.83	3.17	<0.05	<0.02	0.02	0.007	0.03	7.5	1.5	0.07	46	0.64	0.02
YY18715		1.23	21.7	3.02	7.05	0.06	0.07	0.04	0.028	0.07	27.7	14.8	0.39	218	1.61	0.01
YY18716		1.90	23.5	2.77	6.60	0.06	0.03	0.03	0.024	0.09	28.0	13.6	0.77	391	1.64	0.01
YY18717		1.44	26.3	2.63	6.44	0.07	0.03	0.03	0.022	0.13	36.6	13.0	0.79	388	1.72	0.01
YY18718		1.20	26.2	2.48	5.65	0.07	0.03	0.04	0.023	0.11	23.9	12.9	0.77	421	1.09	0.02
YY18719		1.05	30.0	2.40	5.28	0.06	0.04	0.03	0.020	0.08	25.2	13.3	0.59	356	1.13	0.01
YY18720		1.34	24.3	2.64	6.23	0.06	0.02	0.03	0.023	0.14	22.6	13.5	0.98	391	1.02	0.02
YY18721		0.86	22.4	2.23	5.12	0.05	0.02	0.10	0.023	0.07	18.0	9.8	0.41	210	1.23	0.01
YY18722		1.11	30.3	2.29	4.40	0.05	<0.02	0.04	0.022	0.06	17.6	7.8	0.27	109	2.10	0.02
YY18723		1.34	14.8	2.03	5.19	<0.05	0.02	0.05	0.016	0.12	23.2	9.3	0.52	226	1.21	0.02
YY18724		1.19	25.7	2.75	5.37	0.09	0.02	0.08	0.018	0.13	45.3	9.1	0.73	364	1.91	0.01
YY18725		1.08	36.7	2.68	4.73	0.08	0.02	0.10	0.016	0.16	49.7	7.3	0.62	142	2.35	0.01
YY18726		0.80	28.2	2.65	5.16	0.07	<0.02	0.06	0.021	0.10	33.9	8.7	0.49	154	1.54	0.01
YY18727		1.08	38.9	2.18	5.32	0.05	0.02	0.06	0.024	0.06	25.5	10.2	0.41	157	1.29	0.01
YY18728		1.47	64.0	2.19	4.68	0.07	<0.02	0.05	0.028	0.17	49.1	8.0	0.43	194	2.74	0.01
YY18729		1.63	104.5	3.30	5.03	0.07	0.05	0.09	0.062	0.12	42.4	8.8	0.41	155	3.21	0.01
YY18730		1.63	93.1	2.14	3.51	0.07	0.08	0.05	0.039	0.42	49.6	6.8	0.61	188	4.94	0.01
YY18731		1.76	102.0	2.13	4.48	0.05	0.02	0.10	0.049	0.19	29.5	6.2	0.44	173	3.16	0.02
YY18733		3.21	17.9	2.35	6.21	0.07	0.02	0.04	0.029	0.09	28.4	18.3	0.46	171	0.62	0.01
YY18734		2.49	11.0	2.41	5.81	0.10	0.02	0.01	0.018	0.11	38.2	27.9	0.64	244	0.54	0.01
YY18735		4.99	8.7	1.95	5.96	0.10	<0.02	0.05	0.022	0.10	37.9	17.7	0.27	264	0.90	0.02
YY18736		4.78	12.9	2.38	7.21	0.07	<0.02	0.03	0.032	0.10	26.1	17.5	0.35	1280	1.36	0.02
YY18737		4.58	12.6	2.38	5.99	0.08	<0.02	0.01	0.022	0.11	25.7	21.7	0.47	362	0.94	0.02
YY18738		1.97	7.0	1.35	4.83	<0.05	<0.02	0.17	0.016	0.05	13.5	7.7	0.27	93	0.39	0.01
YY18739		1.84	9.6	2.02	5.59	0.05	<0.02	0.03	0.018	0.07	15.8	17.9	0.48	121	0.60	0.01
YY18740		1.95	13.5	2.56	5.57	0.06	0.02	0.04	0.022	0.09	16.5	22.7	0.60	166	0.65	0.01
YY18741		2.35	12.7	2.09	6.04	0.06	<0.02	0.03	0.020	0.10	21.0	21.6	0.57	124	0.55	0.01
YY18742		1.92	12.9	2.35	5.93	0.06	<0.02	0.03	0.021	0.09	21.2	25.4	0.60	192	0.56	0.01
YY18743		1.97	12.7	2.40	6.16	0.06	<0.02	0.03	0.022	0.10	18.7	24.0	0.59	240	0.60	0.01
YY18744		2.23	15.5	2.73	6.50	0.06	<0.02	0.01	0.024	0.14	19.2	24.4	0.65	213	0.69	0.01
YY18745		2.78	17.1	2.96	7.04	0.07	<0.02	0.03	0.023	0.24	21.7	33.5	0.78	151	0.54	0.01
YY18746		2.07	27.5	3.05	6.18	0.06	0.02	0.02	0.025	0.09	21.0	27.5	0.61	428	0.87	0.01
YY18747		2.95	33.1	3.36	6.73	0.10	0.02	0.01	0.027	0.26	28.8	32.3	0.86	313	0.75	0.02
YY18748		3.46	30.8	3.52	8.41	0.10	0.02	0.03	0.029	0.20	37.3	50.0	1.20	195	0.67	0.01
YY18749		3.09	32.2	3.02	6.84	0.11	0.09	0.03	0.029	0.22	31.5	40.5	0.85	197	0.66	0.02
YY18750		3.47	28.6	2.86	7.14	0.13	0.04	0.06	0.026	0.15	36.0	40.1	0.80	237	0.70	0.02
YY18751		2.69	22.9	3.02	7.11	0.07	0.03	0.03	0.030	0.12	23.5	32.1	0.82	218	0.76	0.02
YY18752		3.10	25.1	2.71	7.41	0.08	0.03	0.04	0.028	0.12	24.5	35.2	0.85	219	0.66	0.02
YY18753		3.11	20.3	2.92	7.55	0.08	0.02	0.08	0.029	0.15	28.1	36.3	0.79	210	0.92	0.01
YY18754		3.68	23.6	3.02	7.40	0.07	<0.02	0.03	0.027	0.15	25.1	32.9	0.82	312	0.99	0.01



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.01	0.01	0.2	
YY18714		0.33	2.2	200	28.0	5.0	<0.001	0.03	0.09	0.4	0.3	0.2	4.7	<0.01	0.01	0.2
YY18715		1.62	14.5	260	123.5	16.0	<0.001	0.03	0.52	2.7	0.4	0.6	11.9	0.01	0.03	16.6
YY18716		1.03	19.6	400	122.0	20.1	<0.001	0.04	0.41	3.0	0.4	0.6	13.5	<0.01	0.03	11.6
YY18717		1.08	20.6	450	128.0	21.3	<0.001	0.05	0.42	3.1	0.5	0.6	16.5	<0.01	0.02	12.4
YY18718		0.80	26.8	540	98.0	16.4	0.001	0.04	0.38	3.7	0.4	0.5	17.9	<0.01	0.02	8.0
YY18719		0.92	21.6	410	71.5	13.7	<0.001	0.03	0.40	3.3	0.2	0.4	14.7	<0.01	<0.01	11.2
YY18720		0.78	34.4	470	61.9	18.9	<0.001	0.04	0.34	4.0	0.5	0.5	21.7	<0.01	0.02	4.6
YY18721		0.69	15.8	520	72.8	12.0	<0.001	0.04	0.44	2.0	0.3	0.4	16.3	<0.01	0.01	1.9
YY18722		0.79	9.0	310	275	11.6	<0.001	0.07	0.43	1.4	0.3	0.4	9.9	<0.01	0.01	5.2
YY18723		0.98	10.7	390	117.0	20.5	<0.001	0.03	0.30	1.8	0.6	0.5	15.7	<0.01	0.01	6.0
YY18724		0.73	13.0	550	255	26.2	<0.001	0.03	0.44	1.9	0.4	0.4	20.7	<0.01	0.01	10.1
YY18725		0.70	12.2	560	287	24.0	<0.001	0.06	0.47	1.6	0.4	0.4	23.7	<0.01	<0.01	10.6
YY18726		0.86	12.4	580	127.0	15.4	0.001	0.04	0.46	2.3	0.5	0.4	20.3	<0.01	0.02	8.2
YY18727		1.08	13.2	460	113.0	9.8	<0.001	0.03	0.51	2.3	0.4	0.4	12.0	<0.01	0.04	5.3
YY18728		1.31	7.7	380	292	22.4	<0.001	0.12	0.62	1.5	0.5	0.4	13.0	<0.01	0.10	13.1
YY18729		1.92	11.1	490	627	18.1	<0.001	0.11	2.59	2.2	0.6	0.4	12.8	<0.01	0.20	21.3
YY18730		1.24	4.5	290	414	36.2	0.001	0.43	1.37	0.9	0.3	0.3	13.6	<0.01	0.12	31.1
YY18731		1.24	8.1	430	504	22.5	<0.001	0.22	1.84	1.2	0.3	0.4	14.4	<0.01	0.15	8.9
YY18733		1.04	18.9	720	21.5	20.4	0.001	0.02	0.63	3.7	0.6	0.6	19.4	<0.01	0.01	5.1
YY18734		0.52	16.7	1190	11.2	15.3	<0.001	0.01	0.40	2.0	0.2	0.6	14.0	<0.01	<0.01	14.1
YY18735		0.73	8.7	720	25.1	24.8	<0.001	0.03	0.39	1.4	0.4	0.6	12.6	<0.01	0.01	3.4
YY18736		0.80	14.2	810	42.8	24.3	<0.001	0.03	0.72	2.0	0.3	0.7	17.3	<0.01	0.01	2.5
YY18737		0.87	15.0	910	19.1	22.5	<0.001	0.02	0.99	2.0	0.5	0.6	19.8	<0.01	<0.01	11.0
YY18738		0.56	9.5	600	12.0	13.9	<0.001	0.04	0.13	1.3	0.3	0.4	13.9	<0.01	<0.01	0.6
YY18739		1.13	16.6	560	12.0	16.7	<0.001	0.04	0.33	2.4	0.6	0.5	16.0	<0.01	0.03	1.9
YY18740		1.34	18.8	570	10.4	18.5	<0.001	0.03	0.34	2.8	0.5	0.5	14.3	<0.01	0.02	3.4
YY18741		1.27	19.8	480	9.3	22.8	<0.001	0.04	0.22	2.6	0.5	0.5	16.4	<0.01	0.03	2.2
YY18742		1.33	21.9	520	10.4	19.4	<0.001	0.03	0.22	2.8	0.2	0.5	14.7	<0.01	0.02	3.0
YY18743		1.37	21.3	560	13.9	19.7	<0.001	0.03	0.25	2.8	0.4	0.5	15.5	<0.01	0.03	2.4
YY18744		1.54	23.6	530	10.3	25.4	<0.001	0.03	0.24	2.9	0.4	0.5	13.3	<0.01	0.02	2.6
YY18745		1.93	30.0	510	10.6	37.6	<0.001	0.02	0.22	3.3	0.4	0.6	14.6	<0.01	0.03	5.4
YY18746		1.23	32.5	590	11.4	16.2	<0.001	0.02	0.38	3.2	0.5	0.5	16.9	<0.01	0.04	4.4
YY18747		1.44	39.3	730	7.9	40.9	<0.001	0.03	0.33	3.5	0.3	0.6	22.7	<0.01	0.03	6.5
YY18748		1.76	41.6	540	11.4	35.6	<0.001	0.02	0.28	4.7	0.4	0.6	22.0	<0.01	0.04	9.2
YY18749		1.76	34.8	440	11.2	36.0	<0.001	0.01	0.40	4.8	0.6	0.6	20.0	<0.01	0.03	10.5
YY18750		1.73	33.7	530	10.9	26.5	<0.001	0.02	0.42	4.9	0.6	0.6	20.5	<0.01	0.04	6.9
YY18751		1.64	31.1	440	11.8	22.9	<0.001	0.02	0.46	4.4	0.4	0.6	19.4	<0.01	0.03	6.5
YY18752		1.55	28.4	440	10.7	23.6	<0.001	0.02	0.40	4.9	0.5	0.6	18.1	<0.01	0.03	5.9
YY18753		1.47	29.6	600	11.0	26.8	<0.001	0.02	0.40	4.4	0.4	0.7	19.1	<0.01	0.03	6.0
YY18754		1.27	32.1	480	10.8	25.7	<0.001	0.03	0.32	3.7	0.3	0.6	18.1	<0.01	0.03	4.3



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18714		0.033	0.07	0.83	19	0.08	1.56	25	<0.5
YY18715		0.075	0.18	2.94	55	0.18	5.83	138	2.8
YY18716		0.088	0.16	3.23	48	0.16	7.01	165	1.3
YY18717		0.090	0.22	3.00	44	0.14	6.67	180	1.3
YY18718		0.089	0.14	3.08	49	0.26	8.35	187	1.4
YY18719		0.077	0.15	3.26	47	0.17	6.79	140	1.7
YY18720		0.089	0.19	1.94	51	0.14	8.21	142	0.9
YY18721		0.062	0.14	2.07	44	0.18	4.82	104	0.6
YY18722		0.042	0.15	2.71	31	0.13	4.36	102	0.5
YY18723		0.074	0.24	2.10	32	0.13	3.52	144	1.1
YY18724		0.070	0.34	2.43	28	0.09	5.82	186	0.5
YY18725		0.063	0.38	3.28	23	0.07	5.10	181	0.9
YY18726		0.059	0.19	2.83	36	0.11	4.75	82	0.6
YY18727		0.062	0.17	1.38	42	0.16	4.31	56	0.8
YY18728		0.053	0.28	2.91	26	0.18	3.75	76	0.8
YY18729		0.060	0.27	1.89	36	0.18	4.50	66	1.7
YY18730		0.038	0.49	1.65	13	0.09	2.29	56	4.2
YY18731		0.051	0.30	1.03	29	0.15	2.73	69	0.9
YY18733		0.045	0.19	3.64	44	0.24	18.00	69	<0.5
YY18734		0.024	0.10	2.30	22	0.12	14.00	50	0.8
YY18735		0.015	0.17	2.38	28	0.19	16.20	49	<0.5
YY18736		0.031	0.18	2.61	46	0.24	12.55	74	<0.5
YY18737		0.036	0.14	3.51	31	0.35	13.30	64	<0.5
YY18738		0.030	0.14	1.30	19	0.14	5.15	34	<0.5
YY18739		0.061	0.18	1.22	32	0.13	4.58	57	<0.5
YY18740		0.071	0.21	1.65	42	0.21	4.34	63	0.6
YY18741		0.071	0.22	1.36	34	0.15	4.67	56	<0.5
YY18742		0.078	0.23	1.18	38	0.16	4.73	65	<0.5
YY18743		0.080	0.22	1.07	40	0.11	4.15	65	<0.5
YY18744		0.090	0.24	1.06	48	0.12	3.97	68	<0.5
YY18745		0.103	0.30	1.11	44	0.17	4.58	79	0.6
YY18746		0.082	0.15	0.91	56	0.16	4.83	76	0.9
YY18747		0.110	0.32	1.19	52	0.13	6.37	80	1.0
YY18748		0.107	0.31	1.95	51	0.09	9.04	88	1.1
YY18749		0.126	0.29	1.82	52	0.13	9.67	85	4.2
YY18750		0.108	0.26	4.04	51	0.13	16.20	80	1.9
YY18751		0.100	0.23	1.51	55	0.16	7.79	75	1.6
YY18752		0.101	0.22	2.11	54	0.09	9.23	68	1.4
YY18753		0.088	0.26	1.79	50	0.21	7.94	73	0.8
YY18754		0.094	0.22	1.59	55	0.14	6.78	76	0.5



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		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY18755		0.44	0.001	0.26	2.22	7.1	<0.02	<10	200	0.85	0.35	0.29	0.19	41.9	12.0	45
YY18756		0.46	0.002	0.21	2.26	7.4	<0.02	<10	220	0.91	0.28	0.39	0.26	48.5	13.5	59
YY18757		0.38	0.002	0.17	2.19	6.7	<0.02	<10	170	0.90	0.23	0.36	0.18	52.9	14.3	65
YY18758		0.38	0.001	0.20	2.38	4.7	<0.02	<10	240	0.96	0.17	0.55	0.19	40.1	16.8	113
YY18759		0.33	0.004	0.06	2.65	8.3	<0.02	<10	130	1.13	0.31	0.18	0.26	42.3	16.7	38



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		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY18755		4.07	25.2	3.14	7.46	0.07	0.02	0.04	0.031	0.12	22.1	28.9	1.01	398	1.17	0.01
YY18756		5.73	38.2	3.50	8.28	0.08	0.02	0.02	0.039	0.15	23.6	33.3	1.11	619	1.35	0.01
YY18757		6.18	32.1	3.39	8.00	0.08	0.02	0.02	0.030	0.13	24.7	32.9	1.01	475	1.12	0.02
YY18758		6.74	43.7	3.40	7.88	0.08	0.03	0.02	0.029	0.22	19.3	37.5	1.62	590	0.94	0.02
YY18759		3.38	23.3	3.52	7.60	0.07	0.04	0.04	0.049	0.17	18.8	29.5	0.76	605	1.39	0.01

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					Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
					ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY18755					1.31	27.2	710	18.9	24.6	<0.001	0.03	0.40	4.4	0.6	0.7	19.6	<0.01	0.04	4.3
YY18756					1.10	35.4	670	19.5	22.4	<0.001	0.03	0.36	4.6	0.6	0.8	23.8	<0.01	0.05	4.2
YY18757					1.30	43.3	560	13.1	22.6	<0.001	0.02	0.38	4.4	0.3	0.7	21.6	<0.01	0.05	4.5
YY18758					0.99	57.9	530	8.6	21.3	<0.001	0.02	0.31	5.4	0.5	0.6	25.1	<0.01	0.03	3.8
YY18759					2.28	28.4	520	23.0	25.0	<0.001	0.03	0.45	4.0	0.8	1.1	15.5	<0.01	0.06	5.7

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	Method Analyte Units LOD	ME-MS41 Ti %	ME-MS41 Tl ppm	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm
Sample Description		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18755		0.093	0.25	1.73	60	0.28	7.05	96	0.7
YY18756		0.091	0.19	1.48	65	0.21	8.80	104	0.6
YY18757		0.092	0.18	1.21	66	0.15	7.79	84	0.7
YY18758		0.120	0.18	1.44	71	0.13	11.65	82	1.0
YY18759		0.102	0.21	1.22	59	0.16	5.40	86	1.6



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	CERTIFICATE COMMENTS
Applies to Method:	<p style="text-align: center;">ANALYTICAL COMMENTS</p> <p>Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g). ME-MS41</p> <p style="text-align: center;">LABORATORY ADDRESSES</p> <p>Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada. Applies to Method: LOG-22 SCR-41 WEI-21</p> <p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. Applies to Method: Au-ICP21 ME-MS41</p>