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No: 825, Corporate Site No: 23001.

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Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 7-DEC-2018
Account: ACCELE

CERTIFICATE AD18286732

Project: Thomas Creek

This report is for 117 Soil samples submitted to our lab in Burnie, TAS, Australia on 6-NOV-2018.

The following have access to data associated with this certificate:

PETER REID

ANDY RUST

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
PUL-QC	Pulverizing QC Test
PUL-32	Pulverize 1000g to 85% < 75 um
LEV-01	Waste Disposal Levy

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS
Au-ICP21	Au 30g FA ICP-AES Finish ICP-AES

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:

Cameron Brosnan, Laboratory Manager, Perth



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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	Au-ICP21 Au ppm 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
TC230		0.45	98.0	<0.001	0.08	4.67	21.0	650	0.42	1.14	1.51	0.03	19.40	16.1	277	1.35
TC231		0.41		0.004	0.04	7.15	8.3	360	0.83	0.37	0.22	0.11	51.2	51.6	534	3.98
TC232		0.41		0.002	0.08	6.18	8.7	620	0.49	0.62	1.95	0.05	26.7	23.5	389	0.84
TC233		0.37		0.022	0.02	8.62	5.9	1270	0.85	0.16	0.04	<0.02	27.4	13.4	79	5.24
TC234		0.50		0.007	0.04	7.44	8.9	1320	1.23	0.40	0.04	<0.02	47.4	3.2	13	2.16
TC235		0.36		0.006	0.05	9.25	5.8	950	1.31	0.39	0.05	0.02	92.6	4.5	29	3.20
TC236		0.37		0.009	0.06	7.12	7.6	1750	0.60	0.25	0.04	<0.02	9.54	37.4	171	1.82
TC237		0.50		0.036	0.04	8.42	12.7	390	0.67	2.65	0.06	<0.02	10.15	5.1	201	1.44
TC238		0.43		0.005	0.05	9.05	2.8	160	0.84	0.11	0.04	<0.02	6.07	6.3	356	0.79
TC239		0.37		0.011	0.04	11.60	10.6	590	0.93	0.63	0.03	<0.02	154.0	3.5	192	3.28
TC240		0.57		0.007	0.06	9.26	17.4	80	1.34	0.13	0.07	0.02	26.3	47.6	215	28.7
TC241		0.43		0.011	0.09	9.82	14.1	730	1.37	0.33	0.03	<0.02	92.9	15.3	123	3.80
TC242		0.65		0.016	0.06	8.19	31.2	180	1.37	0.24	0.02	<0.02	34.0	9.0	198	9.33
TC243		0.42		0.005	0.03	7.85	9.6	1430	0.95	0.38	0.05	<0.02	292	109.5	113	1.33
TC244		0.45		0.004	0.01	7.82	7.9	860	0.61	0.13	0.03	0.02	39.6	19.5	75	2.26
TC245		0.33		0.014	0.06	7.70	6.7	520	0.55	0.25	0.06	0.03	45.7	19.8	131	1.75
TC246		0.50		0.002	0.02	6.28	3.1	370	1.04	0.28	0.03	<0.02	25.1	23.0	481	0.88
TC247		0.55		0.002	0.04	8.91	4.4	1120	1.55	0.26	0.03	<0.02	77.9	8.1	30	5.13
TC248		0.27		0.002	0.04	7.29	14.3	630	1.58	2.33	0.07	0.03	69.0	20.5	277	15.00
TC249		0.65		<0.001	0.03	9.39	10.8	1470	2.32	0.26	0.11	<0.02	40.0	24.4	45	5.63
TC250		0.32		<0.001	0.06	6.88	4.4	2280	0.80	0.20	0.09	0.02	79.4	10.1	177	2.79
TC251		0.31		0.001	0.07	11.60	6.8	560	0.35	0.32	0.02	<0.02	0.74	10.3	499	1.29
TC252		0.49		<0.001	0.04	9.25	7.5	530	0.47	0.28	0.05	<0.02	5.51	17.7	172	1.13
TC253		0.34		<0.001	0.01	7.96	11.5	50	0.46	0.28	0.11	<0.02	1.31	12.5	121	0.70
TC254		0.37		<0.001	0.01	11.20	14.7	340	0.79	0.36	0.08	<0.02	28.5	72.5	116	1.25
TC255		0.39		0.002	<0.01	9.33	19.1	70	0.61	0.47	0.01	0.03	1.71	43.5	37	0.62
TC256		0.35		<0.001	0.02	7.82	17.0	750	0.76	0.10	1.20	<0.02	21.3	31.2	278	2.20
TC257		0.43		0.006	0.01	10.60	27.6	440	1.33	0.49	2.06	0.03	46.3	43.3	26	1.19
TC258		0.33		0.002	0.01	8.07	13.9	30	0.70	0.16	0.03	<0.02	21.7	18.6	170	2.30
TC259		0.40		0.005	0.03	8.85	7.2	480	0.75	0.25	0.04	<0.02	92.3	8.6	39	3.62
TC260		0.39		0.001	0.05	9.51	5.0	490	1.02	0.33	0.09	<0.02	194.5	9.0	164	3.36
TC261		0.48		<0.001	0.05	7.59	5.8	690	1.74	0.25	0.09	<0.02	79.9	14.2	93	5.06
TC262		0.48		<0.001	0.04	8.18	11.0	760	1.22	0.14	0.33	<0.02	46.8	32.7	139	2.11
TC263		0.60		<0.001	0.01	8.09	8.9	270	1.44	0.15	1.90	<0.02	38.4	11.0	85	1.82
TC264		0.44		0.004	0.07	9.17	20.1	530	1.14	0.23	1.41	<0.02	69.8	26.6	239	1.95
TC265		0.29		<0.001	0.02	8.94	11.1	170	0.42	0.40	0.24	<0.02	5.36	23.6	231	3.35
TC266		0.41	99.0	<0.001	<0.01	11.85	4.0	690	0.94	0.34	0.02	<0.02	0.86	12.1	167	2.59
TC267		0.42		0.020	0.02	9.19	22.2	530	0.99	0.67	0.98	<0.02	10.60	13.7	349	1.18
TC268		0.49		0.001	0.07	9.42	6.3	980	0.48	0.27	0.08	<0.02	30.5	6.9	145	2.24
TC269		0.46		<0.001	0.03	12.75	3.4	1240	0.95	0.14	0.02	0.02	37.2	7.0	62	2.28



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1
TC230		15.0	9.33	13.45	0.07	2.0	0.064	1.67	10.3	11.0	1.64	779	1.08	1.57	6.2
TC231		131.0	7.28	13.95	0.27	2.2	0.147	1.33	27.6	57.7	5.13	873	1.00	0.43	5.3
TC232		77.0	5.14	11.50	0.07	2.0	0.059	1.27	13.0	22.0	3.09	1360	0.27	1.06	5.0
TC233		299	8.27	14.85	0.12	2.8	0.085	4.47	13.2	41.7	2.25	368	0.34	0.07	6.5
TC234		34.4	3.08	16.35	0.09	4.8	0.098	4.98	24.4	9.9	0.59	199	0.82	0.26	10.8
TC235		67.2	1.90	19.35	0.14	5.6	0.067	4.22	49.1	14.7	0.70	171	0.54	0.14	11.0
TC236		108.0	9.88	14.20	0.11	2.6	0.024	4.65	4.3	36.1	3.41	478	0.92	0.14	5.0
TC237		243	9.60	18.75	0.07	4.2	0.136	2.12	5.4	25.9	2.21	332	1.05	0.04	8.5
TC238		109.0	2.09	21.4	<0.05	3.9	0.073	0.75	2.7	20.4	1.36	192	1.30	0.03	9.8
TC239		335	3.46	20.9	0.16	3.6	0.105	2.70	88.5	16.5	0.71	98	1.24	0.05	7.5
TC240		541	10.90	14.75	0.68	2.3	0.101	1.96	12.7	23.1	1.10	251	0.95	0.02	3.5
TC241		361	5.81	18.40	0.20	6.1	0.085	2.62	51.2	25.4	0.89	278	0.96	0.05	8.9
TC242		630	12.20	15.45	0.35	4.5	0.157	2.51	16.4	11.9	0.38	266	0.47	0.02	7.7
TC243		24.2	4.36	19.50	0.27	4.2	0.056	4.09	151.0	50.4	2.55	590	2.22	0.25	9.9
TC244		85.0	5.27	18.10	0.13	3.3	0.034	3.53	17.2	32.6	2.59	479	0.36	0.08	6.5
TC245		197.0	2.32	16.45	0.08	4.0	0.059	2.76	25.9	32.3	1.26	248	0.77	0.50	9.8
TC246		53.1	8.69	15.15	0.12	2.9	0.082	1.39	11.0	60.0	4.08	675	0.13	0.04	7.2
TC247		68.3	3.10	19.25	0.15	5.1	0.116	4.84	37.1	17.1	0.94	163	0.10	0.22	10.1
TC248		355	3.71	14.15	0.15	3.8	0.186	1.86	36.9	24.3	1.02	425	0.34	0.14	7.4
TC249		185.0	7.30	16.70	0.19	2.4	0.129	3.38	16.5	27.7	1.69	880	0.15	1.14	5.2
TC250		71.5	1.84	13.10	0.13	3.8	0.047	4.89	45.1	21.3	0.39	114	0.44	0.21	7.3
TC251		304	7.64	18.20	0.27	3.6	0.195	2.88	<0.5	16.2	0.25	53	0.19	0.04	3.9
TC252		99.4	3.96	18.70	0.06	4.0	0.051	2.89	2.4	56.6	1.69	289	0.51	0.36	7.4
TC253		151.0	4.87	23.0	0.08	3.9	0.034	0.69	0.5	33.3	1.45	178	1.48	0.03	10.6
TC254		182.5	10.75	22.0	0.19	3.0	0.124	1.61	0.9	21.9	0.64	611	0.78	0.07	9.6
TC255		352	15.50	17.95	0.26	2.8	0.054	0.62	0.7	51.2	1.08	197	0.41	0.02	7.2
TC256		257	9.79	16.65	0.10	3.5	0.124	2.40	8.7	71.0	3.52	675	0.41	0.08	7.5
TC257		564	17.30	24.9	0.39	1.6	0.180	1.21	17.2	78.3	1.73	529	0.18	0.03	5.0
TC258		407	22.0	11.85	0.60	2.6	0.090	0.55	9.4	12.1	0.22	92	0.17	0.02	4.7
TC259		566	1.89	18.90	0.06	2.9	0.084	1.51	28.4	15.1	0.27	178	0.76	0.06	9.2
TC260		323	2.04	21.1	0.27	2.5	0.230	2.00	81.0	14.3	0.37	115	0.39	0.05	8.8
TC261		163.0	2.95	17.35	0.15	2.5	0.026	2.50	33.3	34.7	1.64	305	0.23	0.66	5.0
TC262		151.5	4.11	22.6	0.09	2.1	0.047	2.84	20.9	48.0	2.33	613	0.34	2.86	7.9
TC263		24.8	3.79	15.60	0.12	2.1	0.050	1.25	15.4	16.0	1.22	280	0.23	3.53	8.9
TC264		331	7.06	16.30	0.22	3.0	0.182	1.36	27.6	55.5	1.90	524	0.21	1.61	7.2
TC265		365	9.98	20.8	0.08	3.7	0.167	1.06	1.9	54.5	2.15	384	0.60	0.03	8.0
TC266		76.0	6.79	20.6	0.10	4.1	0.055	2.27	<0.5	8.6	0.26	173	0.18	0.07	9.9
TC267		433	14.00	19.85	0.23	5.8	0.100	1.76	4.5	27.9	1.19	275	2.09	0.05	12.3
TC268		74.7	2.03	19.75	0.07	4.9	0.041	3.32	11.7	16.4	0.68	103	1.37	0.09	9.5
TC269		95.4	1.19	22.1	0.09	4.1	0.053	4.69	15.4	15.5	0.55	184	0.53	0.06	13.0



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		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm 10	ppm 0.5	ppm 0.1	ppm 0.002	% 0.01	ppm 0.05	ppm 0.1	ppm 1	ppm 0.2	ppm 0.2	ppm 0.05	ppm 0.05	ppm 0.01	% 0.005	ppm 0.02
TC230		250	25.9	62.8	<0.002	0.03	2.84	16.9	<1	1.2	84.1	0.44	0.05	5.14	0.379	0.23
TC231		210	4.9	49.7	<0.002	0.02	0.93	35.1	1	1.9	17.0	0.36	<0.05	6.37	0.372	0.20
TC232		120	35.4	46.4	<0.002	0.02	2.71	25.8	<1	1.0	127.0	0.36	0.08	5.91	0.323	0.20
TC233		90	2.4	150.0	<0.002	0.02	2.45	18.2	1	1.4	17.3	0.46	<0.05	6.30	0.466	0.42
TC234		100	3.3	281	<0.002	0.02	1.89	9.4	<1	3.5	53.1	0.95	<0.05	12.20	0.404	0.53
TC235		120	3.2	252	<0.002	0.02	2.04	12.7	1	7.5	42.5	1.01	0.05	15.80	0.362	0.49
TC236		250	3.1	117.0	<0.002	0.02	2.03	18.4	<1	3.7	49.9	0.37	0.17	5.30	0.353	0.33
TC237		220	8.4	134.5	<0.002	0.02	1.98	20.5	2	4.4	15.1	0.62	3.00	13.85	0.358	0.26
TC238		170	7.7	9.8	<0.002	0.03	1.51	20.8	1	4.2	19.4	0.78	0.05	4.49	0.478	0.19
TC239		580	7.8	173.0	<0.002	0.03	1.39	24.7	1	2.5	57.8	0.46	0.88	17.05	0.417	0.36
TC240		1200	3.8	133.0	<0.002	0.02	14.35	46.4	1	0.6	5.4	0.24	<0.05	8.94	0.313	0.24
TC241		870	12.7	151.5	<0.002	0.01	16.85	43.4	<1	2.7	33.9	0.55	0.10	15.60	0.461	0.26
TC242		890	15.1	175.5	<0.002	0.03	5.00	35.9	1	1.3	35.4	0.55	<0.05	13.40	0.369	0.41
TC243		220	4.0	129.5	0.004	0.70	1.33	28.3	1	3.2	130.5	0.55	0.06	9.65	0.461	0.45
TC244		80	7.2	117.5	<0.002	0.02	1.62	25.6	<1	2.1	74.7	0.40	<0.05	3.49	0.469	0.34
TC245		90	6.7	175.0	<0.002	0.06	1.52	25.0	1	3.1	115.0	0.73	0.07	9.91	0.467	0.35
TC246		60	2.9	49.0	<0.002	0.01	2.82	13.9	1	2.0	9.6	0.65	<0.05	11.25	0.185	0.12
TC247		60	5.4	208	<0.002	0.02	4.37	10.1	1	2.7	25.7	0.93	<0.05	16.65	0.325	0.52
TC248		100	4.7	127.5	<0.002	0.09	2.63	23.2	1	2.2	23.8	0.66	<0.05	11.65	0.321	0.60
TC249		180	3.3	144.5	<0.002	0.02	1.95	21.2	1	2.2	65.6	0.33	<0.05	6.22	0.373	0.48
TC250		130	5.8	174.5	<0.002	0.04	2.92	8.9	1	2.5	66.7	0.67	<0.05	11.35	0.263	0.42
TC251		340	3.1	102.0	<0.002	0.04	5.90	32.3	2	11.2	24.7	0.28	<0.05	11.80	0.487	0.35
TC252		420	3.1	111.0	<0.002	0.05	1.73	17.9	1	2.3	56.2	0.61	0.06	8.48	0.423	0.40
TC253		140	12.6	9.7	<0.002	0.03	0.94	22.6	2	2.1	18.6	0.65	0.09	4.38	0.469	0.15
TC254		730	5.8	50.4	<0.002	0.04	1.58	31.8	3	1.5	26.9	0.63	<0.05	15.05	0.437	0.17
TC255		380	4.5	10.0	<0.002	0.05	1.90	10.3	6	2.8	5.5	0.39	0.09	6.12	0.331	0.11
TC256		1070	1.9	69.1	<0.002	0.01	1.07	32.2	1	1.4	85.4	0.53	<0.05	16.05	0.373	0.25
TC257		2200	3.3	22.8	<0.002	0.03	2.12	24.6	2	1.6	101.0	0.34	0.05	22.0	0.351	0.13
TC258		470	2.4	47.8	<0.002	0.05	2.82	45.9	3	0.9	5.7	0.45	<0.05	18.25	0.260	0.08
TC259		210	4.1	75.3	<0.002	0.10	3.82	25.4	2	4.0	26.3	0.67	<0.05	17.90	0.466	0.20
TC260		190	3.2	100.5	<0.002	0.07	4.26	33.7	2	3.7	37.0	0.59	<0.05	18.35	0.492	0.25
TC261		120	2.9	115.0	<0.002	0.17	2.18	25.1	1	2.0	81.6	0.48	0.05	12.20	0.284	0.33
TC262		740	3.9	107.0	<0.002	0.08	1.28	59.9	1	2.4	126.5	0.51	0.05	8.80	0.373	0.31
TC263		220	2.3	51.8	<0.002	0.02	1.05	24.2	1	1.8	123.5	0.47	0.05	7.78	0.374	0.18
TC264		480	2.9	55.3	<0.002	0.04	1.86	31.0	1	1.8	148.0	0.50	<0.05	12.50	0.378	0.17
TC265		170	3.3	20.2	<0.002	0.02	2.41	21.7	2	2.4	51.0	0.61	<0.05	4.66	0.417	0.14
TC266		130	3.6	113.5	<0.002	0.02	1.52	24.2	1	3.2	40.9	0.56	<0.05	14.55	0.541	0.23
TC267		460	3.8	95.7	<0.002	0.05	1.52	34.5	2	3.3	102.0	0.75	<0.05	32.0	0.496	0.20
TC268		110	4.0	145.5	<0.002	0.02	0.66	36.5	1	3.8	117.5	0.60	0.06	12.85	0.477	0.34
TC269		150	16.0	285	<0.002	0.03	1.08	24.2	1	3.3	118.5	0.74	<0.05	12.45	0.600	0.60



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
TC230		1.4	300	1.7	7.0	54	74.2
TC231		2.0	241	3.6	10.2	64	82.6
TC232		1.9	158	1.5	11.6	94	71.0
TC233		1.5	207	6.4	13.4	28	97.6
TC234		5.2	101	6.4	18.2	14	194.0
TC235		5.7	97	15.4	21.9	18	210
TC236		2.6	204	5.9	8.0	28	97.4
TC237		7.4	203	11.2	8.2	31	157.0
TC238		6.0	163	2.0	2.4	22	136.5
TC239		7.6	344	6.7	10.4	15	128.0
TC240		11.9	377	7.9	10.3	57	80.4
TC241		9.1	240	4.4	24.5	45	228
TC242		7.7	184	7.5	14.3	29	167.5
TC243		12.6	220	8.4	34.3	96	156.0
TC244		2.3	208	2.8	8.0	64	111.5
TC245		3.7	196	4.0	11.6	53	143.0
TC246		2.4	82	3.6	15.7	61	95.3
TC247		4.2	93	4.0	23.6	25	182.5
TC248		3.2	152	3.2	23.3	82	134.0
TC249		2.2	221	5.6	16.4	68	83.1
TC250		4.8	67	8.1	18.8	17	140.5
TC251		4.2	314	6.5	1.8	7	111.5
TC252		2.7	254	4.8	2.9	43	132.0
TC253		3.3	336	9.3	1.5	37	138.0
TC254		3.1	341	6.1	3.0	25	90.7
TC255		3.5	232	14.8	1.8	31	96.9
TC256		3.2	284	2.3	11.4	61	122.5
TC257		3.8	660	2.9	33.0	67	55.4
TC258		3.6	204	4.7	8.2	11	87.2
TC259		3.3	317	21.1	9.3	21	107.0
TC260		3.4	418	24.2	60.1	18	89.3
TC261		2.0	346	10.4	32.2	33	83.9
TC262		2.5	154	12.6	14.1	56	78.6
TC263		2.8	234	3.6	27.9	16	74.2
TC264		3.4	221	4.5	25.5	56	101.0
TC265		3.4	297	10.6	5.6	41	136.5
TC266		5.1	280	8.3	1.3	14	136.0
TC267		8.0	309	4.8	11.0	22	209
TC268		4.8	239	6.1	12.0	15	182.5
TC269		5.6	220	6.9	15.6	21	152.5



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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	Au-ICP21 Au ppm 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
TC270		0.35		0.004	0.12	8.96	6.5	1190	0.65	0.98	0.03	0.02	100.0	8.1	86	1.12
TC271		0.50		<0.001	0.03	7.24	3.9	790	1.09	0.10	0.55	0.02	40.2	8.1	46	1.29
TC272		0.35		0.041	0.19	5.00	70.5	50	0.78	0.79	4.03	0.07	76.6	498	279	1.30
TC273		0.47		0.001	0.06	6.54	4.8	410	0.63	0.43	3.31	<0.02	31.2	37.1	721	2.53
TC274		0.55		<0.001	0.04	8.26	7.7	510	1.29	0.10	2.67	0.02	31.3	40.7	153	1.10
TC275		0.54		0.008	0.10	7.69	9.3	170	1.36	0.26	0.28	<0.02	178.5	49.2	70	2.37
TC276		0.40		0.002	0.04	10.80	10.5	610	1.13	0.09	3.18	<0.02	15.60	9.9	58	1.07
TC277		0.39		0.001	0.03	9.58	7.5	290	0.69	0.15	0.07	<0.02	16.30	3.3	43	11.30
TC278		0.42		<0.001	0.06	11.15	15.8	250	0.79	0.17	0.80	0.04	27.6	12.4	40	1.17
TC279		0.40		<0.001	0.03	10.20	9.0	230	1.20	0.08	1.29	<0.02	39.1	5.8	10	0.95
TC280		0.39		0.004	0.06	8.29	7.7	630	0.88	0.21	0.19	0.03	34.8	23.1	81	2.38
TC281		0.22		0.009	0.05	3.72	2.3	180	0.40	0.11	0.05	<0.02	43.6	1.9	56	2.91
TC282		0.56		0.005	0.05	9.13	19.4	310	1.46	0.31	0.07	0.11	78.2	111.5	62	11.15
TC283		0.55	99.0	<0.001	0.04	7.79	14.3	370	1.84	0.07	0.17	0.04	75.0	115.5	108	4.59
TC284		0.48		<0.001	0.03	6.23	5.5	400	1.00	0.10	0.21	0.02	52.6	16.9	68	4.70
TC285		0.41		<0.001	0.07	8.97	3.0	290	0.97	0.18	0.06	<0.02	42.4	2.3	92	4.65
TC286		0.42		0.001	0.04	9.38	5.2	170	1.04	0.22	2.75	0.04	23.9	6.4	10	1.56
TC287		0.30		0.046	0.05	10.75	6.6	560	1.28	0.11	0.98	<0.02	14.05	7.8	10	3.29
TC288		0.47		<0.001	0.07	8.12	5.0	110	0.80	0.16	0.90	0.05	16.20	5.3	97	0.34
TC289		0.45		<0.001	0.04	8.73	3.7	140	0.75	0.12	0.33	0.06	112.0	7.5	14	1.15
TC290		0.39		0.008	0.05	10.30	9.4	180	0.77	0.27	0.38	<0.02	32.1	6.4	14	0.83
TC291		0.36		<0.001	0.02	9.78	5.7	330	0.88	0.06	0.74	<0.02	10.60	7.3	11	0.78
TC292		0.52		0.001	0.06	9.50	9.8	280	1.80	0.10	0.96	0.04	19.70	4.9	13	0.67
TC293		0.26		0.004	0.04	8.25	6.5	310	1.50	0.10	1.46	<0.02	15.50	3.7	8	0.93
TC294		0.42		<0.001	0.08	8.04	2.6	120	0.74	0.09	0.51	<0.02	25.2	5.9	93	2.12
TC295		0.35		<0.001	0.05	8.01	3.1	150	0.97	0.10	1.02	<0.02	28.0	6.7	17	1.52
TC296		0.46		<0.001	0.02	8.09	3.3	130	1.32	0.09	1.07	<0.02	39.2	4.6	20	1.42
TC297		0.45		<0.001	0.03	6.27	38.4	390	0.64	0.25	0.26	<0.02	20.8	10.2	48	1.19
TC298		0.36		<0.001	0.03	8.62	7.6	1000	0.95	0.08	2.44	<0.02	14.35	15.5	54	1.78
TC299		0.41		<0.001	0.04	6.55	11.1	490	0.90	0.12	0.35	<0.02	64.1	26.5	72	3.90
TC300		0.43		0.001	0.09	10.85	10.9	730	0.81	0.30	0.12	<0.02	26.5	110.5	297	2.22
TC301		0.27		<0.001	0.11	11.15	9.4	500	1.61	0.20	1.03	<0.02	20.4	19.6	91	0.78
TC302		0.56	92.0	0.002	0.04	10.30	19.5	850	1.53	0.07	3.68	<0.02	16.35	15.2	146	1.72
TC303		0.35		0.005	0.11	11.45	5.8	680	1.50	0.17	0.05	<0.02	114.5	22.8	16	2.87
TC304		0.29		0.004	0.07	8.53	3.4	510	0.75	0.20	0.48	<0.02	58.3	5.7	16	1.76
TC305		0.33		<0.001	0.02	9.63	6.1	270	1.04	0.13	1.44	0.04	9.48	5.7	12	1.34
TC306		0.56		<0.001	0.02	8.68	6.5	410	1.34	0.11	1.62	<0.02	12.40	5.9	11	1.37
TC307		0.49		0.004	0.02	8.96	7.6	150	1.14	0.15	2.73	<0.02	10.05	9.0	9	0.53
TC308		0.48		0.002	0.02	7.90	5.3	90	1.25	0.14	2.52	<0.02	7.83	7.0	8	0.75
TC309		0.52		0.016	0.02	10.20	5.9	370	1.15	0.09	0.81	<0.02	12.10	10.3	13	1.35



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Sample Description	Method Analyte Units LOD	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2
TC270		73.8	1.44	20.7	0.16	4.7	0.098	3.96	48.2	20.9	0.85	154	4.78	0.07	9.6	27.4
TC271		48.1	1.27	16.55	0.09	5.7	0.017	3.15	22.4	8.6	0.60	112	0.86	1.68	9.6	30.9
TC272		1350	13.65	11.80	0.27	1.4	0.072	1.39	26.4	16.1	3.25	296	0.97	0.65	9.5	1380
TC273		73.5	5.52	13.10	0.13	1.7	0.110	1.29	11.6	42.4	6.44	1000	0.33	0.57	3.7	215
TC274		144.0	3.58	16.30	0.20	2.1	0.070	2.03	14.6	15.4	2.08	499	0.98	3.04	4.9	69.9
TC275		473	5.09	15.15	0.15	3.5	0.037	1.15	120.5	30.2	1.94	290	3.99	3.00	7.2	51.4
TC276		95.7	2.83	20.2	0.14	1.9	0.147	1.74	7.2	23.5	1.46	432	0.24	2.55	4.9	41.2
TC277		26.1	1.48	15.85	0.05	3.8	0.084	3.12	8.0	54.9	0.54	131	0.71	0.09	9.6	13.4
TC278		166.0	1.63	21.2	0.10	2.2	0.084	1.56	13.4	18.9	0.84	286	0.37	2.24	8.2	54.2
TC279		130.5	2.01	17.70	0.13	2.2	0.073	1.10	15.4	20.5	0.93	377	0.27	3.22	7.3	30.4
TC280		213	1.90	16.55	0.06	4.1	0.034	2.46	18.8	20.4	0.80	178	2.28	1.02	9.6	30.3
TC281		26.8	0.89	9.64	0.06	4.3	0.013	0.93	23.5	7.3	0.26	100	1.49	0.21	8.2	8.4
TC282		446	5.74	17.20	0.16	3.3	0.026	1.86	39.4	29.1	1.64	199	1.19	0.37	3.3	62.8
TC283		72.5	5.29	15.10	0.19	3.0	0.011	1.39	36.7	28.5	1.99	226	0.83	0.64	6.3	142.0
TC284		133.0	1.70	13.60	0.10	4.7	0.014	1.65	29.0	21.0	1.23	188	2.32	0.83	7.0	20.5
TC285		38.3	1.10	18.35	0.09	3.7	0.011	2.16	22.7	22.8	1.12	86	1.07	1.22	6.1	10.8
TC286		68.0	2.42	20.5	0.08	2.9	0.041	1.05	8.8	13.3	0.73	218	0.30	2.45	9.2	20.5
TC287		284	1.83	13.35	0.05	1.6	0.045	1.39	5.1	18.4	0.50	232	0.19	0.25	4.7	73.5
TC288		164.5	2.32	17.25	0.07	3.2	0.060	0.30	7.2	26.7	1.16	361	2.92	3.28	6.6	66.5
TC289		188.0	1.50	15.90	0.14	2.7	0.024	0.57	59.0	17.8	0.60	240	2.35	3.24	8.0	26.4
TC290		124.0	1.51	20.7	0.08	3.2	0.057	0.93	16.5	13.8	0.50	254	8.12	2.99	10.5	26.2
TC291		155.5	5.54	18.50	0.11	3.4	0.034	0.82	3.8	10.3	0.36	220	0.63	1.41	8.6	27.8
TC292		48.1	1.35	20.8	0.11	3.9	0.031	1.16	8.0	17.3	0.27	428	0.26	1.76	8.4	20.2
TC293		45.4	1.40	18.95	0.09	3.4	0.032	1.06	7.4	11.4	0.51	353	0.27	2.28	9.2	11.7
TC294		55.6	1.72	16.50	0.11	3.9	0.039	0.44	9.5	16.1	0.77	268	0.27	1.76	5.7	27.7
TC295		121.5	1.76	15.20	0.08	3.1	0.037	0.54	11.4	9.6	0.47	183	0.18	2.95	9.4	19.2
TC296		41.5	1.02	16.15	0.09	2.2	0.020	0.81	13.2	9.2	0.27	160	0.14	3.11	6.9	14.5
TC297		32.1	21.8	13.25	0.55	1.4	0.035	1.43	10.1	14.4	0.60	150	2.24	1.85	4.1	17.1
TC298		61.8	4.84	17.00	0.09	3.1	0.054	3.43	5.6	28.5	3.01	560	0.55	2.03	6.8	32.8
TC299		46.6	5.88	11.15	0.13	2.0	0.036	2.38	36.4	21.4	1.06	186	0.27	1.52	4.0	36.1
TC300		296	3.52	23.4	0.08	2.7	0.045	3.37	12.4	29.2	1.77	559	1.01	1.09	6.1	183.5
TC301		271	2.04	26.4	0.12	2.4	0.105	2.17	9.1	14.2	1.20	233	0.82	0.85	12.2	105.5
TC302		64.8	4.27	18.45	0.15	1.1	0.112	2.37	7.2	22.8	2.79	940	0.15	2.72	4.9	46.4
TC303		552	1.82	20.6	0.13	3.6	0.116	2.36	71.2	12.2	0.30	331	0.24	0.53	10.4	30.0
TC304		182.0	1.77	16.15	0.09	3.3	0.056	1.25	34.3	17.7	0.60	265	0.51	1.39	9.9	21.7
TC305		81.7	1.63	19.40	0.08	3.0	0.043	1.45	5.3	10.9	0.41	230	0.27	1.00	9.6	18.7
TC306		78.3	2.07	19.40	0.10	4.7	0.047	1.45	7.2	15.0	0.73	553	0.27	1.14	10.0	24.0
TC307		190.5	4.42	17.50	0.07	2.9	0.069	0.50	6.4	19.5	0.86	277	0.29	2.73	7.8	17.2
TC308		55.8	2.19	17.75	0.08	2.6	0.037	0.39	5.0	10.4	0.56	243	0.25	3.25	8.4	11.6
TC309		222	4.82	20.3	0.10	3.5	0.068	1.57	4.0	13.9	0.77	452	0.30	0.38	9.2	22.0



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm 10	ppm 0.5	ppm 0.1	ppm 0.002	% 0.01	ppm 0.05	ppm 0.1	ppm 1	ppm 0.2	ppm 0.2	ppm 0.05	ppm 0.05	ppm 0.01	% 0.005	ppm 0.02
TC270		130	7.0	187.0	<0.002	0.04	1.31	23.0	2	5.6	104.0	0.59	0.26	13.50	0.450	0.43
TC271		120	4.8	145.0	<0.002	0.10	0.54	7.8	<1	1.5	139.5	0.93	0.05	12.30	0.387	0.25
TC272		>10000	9.2	74.6	0.064	>10.0	0.99	48.7	13	3.4	75.7	0.43	1.11	12.45	0.288	0.32
TC273		90	3.3	88.1	<0.002	0.06	1.14	45.4	1	4.1	72.2	0.28	0.13	5.40	0.308	0.23
TC274		180	4.0	86.7	<0.002	0.09	1.70	34.4	<1	2.8	354	0.36	<0.05	7.68	0.351	0.26
TC275		310	2.2	73.8	0.004	0.25	1.05	11.6	<1	1.8	79.8	0.68	<0.05	13.20	0.294	0.15
TC276		140	4.6	53.7	<0.002	0.04	1.97	19.7	<1	1.5	210	0.29	<0.05	7.67	0.379	0.26
TC277		60	5.8	154.0	<0.002	0.06	25.6	12.2	1	3.3	36.9	0.69	<0.05	7.30	0.470	0.48
TC278		110	9.0	79.0	<0.002	0.10	2.10	14.0	1	6.5	98.5	0.60	<0.05	6.28	0.490	0.27
TC279		90	3.5	69.8	<0.002	0.08	1.53	13.9	<1	5.8	149.0	0.59	<0.05	15.85	0.506	0.23
TC280		80	5.7	136.5	<0.002	0.31	1.07	18.7	1	3.2	94.4	0.68	<0.05	9.16	0.489	0.33
TC281		70	3.9	54.6	<0.002	0.10	0.77	12.7	1	1.1	24.8	0.57	<0.05	5.81	0.406	0.13
TC282		70	7.6	102.0	0.010	4.27	0.95	27.8	3	0.9	45.1	0.24	0.28	10.35	0.279	0.59
TC283		90	3.8	74.0	0.009	3.21	0.48	34.1	1	1.4	49.1	0.48	0.05	10.85	0.343	0.20
TC284		80	6.3	86.8	<0.002	0.14	0.85	18.1	1	1.2	64.2	0.50	<0.05	7.31	0.377	0.20
TC285		50	5.2	131.0	<0.002	0.02	0.40	13.9	<1	0.7	32.5	0.41	0.05	6.57	0.372	0.27
TC286		170	4.1	46.3	<0.002	0.06	2.49	12.7	1	6.1	326	0.72	<0.05	14.75	0.556	0.18
TC287		100	3.4	70.2	<0.002	0.05	0.73	12.1	1	4.9	117.5	0.42	<0.05	11.40	0.352	0.22
TC288		130	2.2	12.7	<0.002	0.08	0.87	17.5	<1	5.6	112.5	0.72	<0.05	8.49	0.458	0.03
TC289		110	3.0	33.0	<0.002	0.04	3.62	9.3	<1	6.2	65.7	0.61	<0.05	6.50	0.446	0.12
TC290		120	3.8	60.6	<0.002	0.03	10.95	13.4	1	10.8	71.3	0.91	<0.05	17.40	0.575	0.22
TC291		200	3.5	36.3	<0.002	0.04	0.68	12.0	1	3.5	84.6	0.77	<0.05	17.60	0.461	0.13
TC292		210	3.8	54.9	<0.002	0.02	0.49	11.8	<1	2.3	93.5	0.83	<0.05	29.2	0.434	0.16
TC293		120	3.9	46.7	<0.002	0.03	0.37	11.0	<1	3.3	217	0.85	<0.05	19.65	0.427	0.14
TC294		50	2.3	25.5	<0.002	0.07	0.63	16.9	<1	2.9	82.1	0.63	<0.05	14.60	0.405	0.07
TC295		50	2.5	26.3	<0.002	0.04	0.52	13.1	<1	3.9	193.5	0.84	<0.05	19.05	0.372	0.08
TC296		80	2.4	42.3	<0.002	0.04	0.37	6.3	1	3.5	160.5	0.71	<0.05	9.34	0.345	0.15
TC297		120	2.2	73.1	<0.002	0.09	3.44	12.0	<1	2.5	74.2	0.25	0.06	3.45	0.270	0.19
TC298		150	2.5	153.0	<0.002	0.03	1.52	24.4	1	3.1	188.0	0.49	<0.05	6.25	0.452	0.41
TC299		140	2.4	122.5	<0.002	0.03	3.96	23.1	1	1.8	82.5	0.27	<0.05	4.54	0.290	0.28
TC300		110	4.3	210	0.002	1.40	3.06	40.3	1	3.7	83.1	0.38	0.12	8.90	0.502	0.59
TC301		130	5.8	112.0	<0.002	0.12	2.00	22.3	1	3.3	39.5	0.81	<0.05	13.65	0.635	0.30
TC302		60	4.2	105.0	<0.002	0.05	1.68	26.7	<1	2.2	314	0.29	<0.05	4.06	0.336	0.37
TC303		90	4.5	124.0	<0.002	0.65	1.77	34.6	<1	4.7	39.5	1.01	<0.05	16.85	0.759	0.38
TC304		120	3.9	58.9	<0.002	0.08	1.80	10.9	1	6.4	81.7	0.87	<0.05	10.60	0.619	0.19
TC305		140	4.0	59.3	<0.002	0.07	1.15	13.6	1	4.5	134.5	0.81	<0.05	19.95	0.588	0.21
TC306		130	4.6	68.9	<0.002	0.04	1.17	12.9	1	2.8	118.5	0.83	<0.05	11.50	0.526	0.20
TC307		70	2.5	13.4	<0.002	0.02	1.00	11.2	1	2.8	313	0.71	<0.05	7.64	0.441	0.06
TC308		50	4.1	13.2	<0.002	0.02	2.05	12.2	<1	2.0	180.5	0.72	<0.05	7.15	0.481	0.05
TC309		80	2.3	68.7	<0.002	0.02	0.65	17.5	1	2.1	35.6	0.79	<0.05	15.95	0.427	0.20



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
TC270		6.5	197	13.9	20.2	13	173.0
TC271		5.5	72	1.2	8.9	10	213
TC272		4.2	282	5.8	41.0	38	43.6
TC273		1.7	265	1.6	16.0	73	59.6
TC274		6.4	254	2.4	23.0	29	72.6
TC275		4.8	180	3.0	17.8	35	115.5
TC276		1.4	246	1.1	9.4	21	73.7
TC277		3.2	189	3.9	13.9	16	122.0
TC278		5.0	155	1.6	3.7	23	78.2
TC279		5.1	93	1.3	7.6	29	79.7
TC280		4.2	201	3.1	8.0	23	150.0
TC281		2.3	77	3.4	7.7	6	163.0
TC282		10.6	197	1.2	20.7	20	112.0
TC283		3.2	239	2.1	29.1	19	103.0
TC284		3.4	137	2.3	12.1	25	180.5
TC285		3.5	102	6.0	13.2	9	136.0
TC286		4.0	150	1.3	6.7	11	99.6
TC287		4.5	239	3.4	3.3	13	59.9
TC288		3.8	86	1.8	3.8	32	111.0
TC289		4.9	83	1.5	8.0	19	103.0
TC290		10.6	151	2.0	4.0	16	122.5
TC291		3.9	318	0.9	3.9	10	129.5
TC292		3.9	283	0.9	6.2	11	131.5
TC293		2.7	173	1.2	7.0	11	123.0
TC294		2.1	123	1.6	6.4	20	139.0
TC295		3.8	79	0.9	5.6	15	115.0
TC296		3.5	68	1.6	5.6	8	78.4
TC297		2.3	399	2.8	7.6	14	47.4
TC298		3.2	176	1.4	17.2	21	106.5
TC299		1.6	174	2.1	13.4	19	68.2
TC300		4.1	413	1.6	7.1	43	92.2
TC301		2.7	311	1.3	9.3	31	78.8
TC302		0.6	321	2.8	23.3	65	36.6
TC303		2.8	325	3.1	9.6	23	133.5
TC304		3.1	110	3.8	6.5	26	125.5
TC305		4.7	114	1.1	3.0	12	106.5
TC306		2.9	118	1.4	6.5	21	171.0
TC307		3.0	117	3.6	5.1	11	103.0
TC308		2.6	63	3.3	3.8	10	93.2
TC309		3.6	209	0.9	4.6	10	118.5



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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	Au-ICP21 Au ppm 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
TC310		0.58		0.006	0.04	6.92	4.7	290	0.97	0.14	0.68	<0.02	36.0	4.5	22	1.65
TC311		0.40		0.083	0.09	8.29	2.5	2470	0.53	3.94	0.06	<0.02	182.0	4.4	95	0.66
TC312		0.38		0.002	0.07	8.22	3.0	1570	0.68	0.20	0.03	<0.02	127.0	8.7	69	1.25
TC313		0.40		0.005	0.06	7.83	3.6	2810	0.40	0.32	0.04	<0.02	191.5	8.8	58	0.71
TC314		0.54	96.0	0.003	0.06	8.99	9.4	3020	0.94	0.15	0.05	<0.02	400	99.9	62	1.61
TC315		0.50		0.005	0.07	6.85	5.2	2640	0.60	0.32	0.04	<0.02	248	20.9	80	1.08
TC316		0.45		0.047	0.69	7.76	33.1	130	1.24	1.08	0.04	0.10	>500	272	104	1.38
TC317		0.06		NSS	0.04	1.41	1.3	70	0.24	0.05	0.08	<0.02	13.45	2.5	26	0.41
TC318		0.12		NSS	0.04	7.92	2.8	250	0.45	0.10	0.17	0.02	15.70	6.2	17	2.82
TC319		0.15		0.004	0.03	3.82	1.3	140	0.25	0.08	0.10	<0.02	12.30	1.9	20	1.51
TC320		0.15		0.002	0.06	10.20	6.3	350	1.15	0.09	2.77	<0.02	21.4	5.9	8	1.42
TC321		0.16		0.003	0.03	7.13	13.7	180	0.95	0.13	0.09	0.02	31.1	88.2	20	4.46
TC322		0.20		0.013	0.16	8.52	29.9	540	1.92	0.63	1.41	0.03	114.0	46.0	226	1.47
TC323		0.13		0.004	0.03	5.86	18.8	210	0.80	0.27	0.33	<0.02	40.4	27.4	246	0.86
TC324		0.13		0.005	0.11	5.06	17.0	370	0.45	0.36	0.43	0.02	34.8	5.3	84	1.21
TC325		0.18		0.010	0.10	10.60	11.8	680	0.68	0.13	0.36	<0.02	28.8	28.4	197	1.75
TC326		0.20		<0.001	0.02	9.83	27.3	620	1.56	0.06	0.18	<0.02	105.5	63.0	163	14.45
TC327		0.18		0.002	0.09	9.16	26.2	300	0.48	0.11	0.06	<0.02	13.35	118.0	149	3.51
TC328		0.17		0.459	1.95	9.58	3.5	1790	0.37	0.19	0.09	<0.02	16.75	6.3	91	3.04
TC329		0.20		0.010	0.18	9.87	24.3	130	1.48	0.84	0.08	0.10	91.5	127.0	154	9.46
TC330		0.19		0.005	0.04	9.46	18.4	120	1.26	0.15	0.09	0.02	17.60	94.8	90	14.10
TC331		0.18		0.007	0.05	7.74	12.8	340	0.69	0.46	0.09	0.02	30.6	42.3	86	7.64
TC332		0.14		0.008	0.06	7.80	16.8	520	0.43	0.42	0.19	<0.02	77.9	7.3	80	4.29
TC333		0.14		0.016	0.05	5.37	10.3	390	0.29	0.30	0.12	<0.02	17.40	4.6	76	1.88
TC334		0.16		0.001	0.03	8.22	7.4	340	0.58	0.23	0.04	<0.02	1.34	30.5	232	0.73
TC335		0.25		0.006	0.06	7.81	5.3	2480	0.79	0.31	0.11	<0.02	364	26.2	66	1.69
TC336		0.18		0.005	0.18	12.85	4.2	2570	0.95	0.17	0.06	<0.02	176.5	5.6	187	1.53
TC337		0.21		0.054	0.06	4.80	172.0	200	0.48	3.44	0.02	<0.02	32.1	12.0	65	1.10
TC338		0.17		0.005	0.04	4.68	23.1	150	0.35	0.94	0.03	<0.02	109.0	9.9	90	1.96
TC339		0.20		0.006	0.04	3.24	16.2	70	0.21	0.34	0.08	<0.02	8.92	4.8	54	1.44
TC340		0.21		0.008	0.04	8.04	16.1	340	0.41	0.28	0.17	<0.02	12.15	5.9	193	1.86
TC341		0.15		0.014	0.03	7.95	18.9	290	0.43	0.36	0.73	<0.02	19.35	9.0	173	1.61
TC342		0.17		0.019	0.08	9.47	10.2	820	1.55	0.24	0.42	0.09	62.0	49.5	98	4.17
TC343		0.23		0.008	0.04	3.58	72.8	280	1.13	0.70	4.64	0.02	>500	44.5	22	0.70
TC344		0.12		0.002	0.02	6.30	17.2	90	0.27	0.31	0.10	<0.02	16.95	8.1	58	1.30
TC345		0.16		0.003	0.02	4.47	24.2	120	0.31	0.49	0.27	<0.02	45.8	6.8	98	1.12
TC346		0.19		0.004	0.02	10.30	19.4	340	0.39	0.45	0.05	<0.02	2.62	12.4	213	1.28



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
TC310		239	1.22	13.15	0.06	4.8	0.034	0.88	19.9	13.2	0.33	187	0.87	1.84	12.4	15.4
TC311		63.0	1.15	21.0	0.18	4.8	0.099	5.41	99.2	18.8	0.60	100	8.93	0.14	9.0	13.0
TC312		57.1	2.04	16.65	0.13	4.7	0.046	4.79	75.1	20.1	1.10	313	3.25	0.08	6.7	16.8
TC313		125.5	2.25	19.00	0.23	3.8	0.061	4.93	113.5	23.2	1.29	217	1.82	0.12	8.3	12.4
TC314		246	3.75	21.4	0.42	4.0	0.052	6.37	215	26.3	2.11	381	2.86	0.14	7.8	53.2
TC315		143.5	1.42	14.20	0.27	3.5	0.079	5.76	137.0	13.0	0.45	77	1.65	0.16	6.0	24.2
TC316		1390	4.76	19.40	0.73	3.8	0.106	5.17	379	11.9	0.48	79	4.52	0.17	7.1	160.0
TC317		22.7	2.71	3.57	<0.05	2.5	0.012	0.21	8.9	6.4	0.06	303	0.80	0.04	3.8	7.9
TC318		112.5	1.40	15.85	<0.05	2.4	0.048	0.93	9.5	6.3	0.16	125	0.56	0.25	9.2	21.4
TC319		34.6	1.23	9.35	<0.05	3.5	0.021	0.49	6.5	8.2	0.09	141	0.72	0.30	7.1	7.5
TC320		52.8	2.44	17.30	0.08	1.7	0.042	1.12	9.7	9.5	0.77	320	0.18	3.27	6.1	27.1
TC321		170.0	2.13	19.95	0.09	2.3	0.043	2.09	15.9	11.6	0.53	146	0.25	2.38	7.1	87.9
TC322		558	4.18	24.1	0.25	1.0	0.097	1.73	49.8	23.1	2.99	481	0.78	2.34	4.3	120.5
TC323		198.5	15.05	21.8	0.33	1.7	0.029	1.06	21.2	40.3	1.65	277	0.93	0.44	3.5	201
TC324		53.3	7.41	21.7	0.10	4.3	0.066	1.15	18.2	18.2	0.73	172	3.27	0.30	14.5	34.6
TC325		165.0	4.75	16.65	0.10	4.2	0.172	3.04	12.1	55.7	1.94	596	0.59	0.81	8.4	97.6
TC326		32.3	6.02	25.1	0.16	2.5	0.043	2.93	52.0	45.3	2.18	469	1.11	1.24	5.3	329
TC327		116.0	4.25	9.09	0.06	1.7	0.021	5.21	7.3	7.2	0.81	133	2.03	0.24	2.0	125.0
TC328		398	2.14	15.35	0.06	1.8	0.072	5.36	8.6	14.8	0.93	286	0.23	1.51	2.4	38.2
TC329		855	2.89	18.60	0.15	2.4	0.043	3.96	48.1	7.1	0.45	77	1.64	0.07	6.1	64.5
TC330		197.0	4.97	18.20	0.09	1.8	0.080	2.99	9.1	11.9	0.87	192	0.36	0.51	5.7	93.5
TC331		258	4.14	13.95	0.12	1.4	0.030	1.84	17.1	29.4	1.24	203	0.44	1.85	4.3	47.7
TC332		150.5	9.52	21.6	0.16	2.9	0.154	1.90	41.5	30.8	0.51	174	3.08	0.56	9.7	19.4
TC333		106.5	6.56	13.25	0.07	2.1	0.113	1.38	8.9	31.4	0.39	158	1.52	0.36	6.8	16.6
TC334		373	10.90	15.30	0.25	1.9	0.161	1.64	0.6	59.4	3.12	742	0.53	0.31	5.4	68.3
TC335		145.0	2.65	18.10	0.37	4.5	0.054	4.85	189.0	21.4	1.08	330	1.43	0.15	7.0	18.9
TC336		120.0	1.50	27.2	0.35	4.2	0.134	4.75	60.7	8.2	0.22	83	0.92	0.14	10.5	40.8
TC337		691	22.7	14.20	0.45	3.6	0.046	0.48	18.2	5.6	0.06	23	19.45	0.03	6.2	14.5
TC338		124.5	12.20	14.60	0.17	4.5	0.076	0.34	60.1	8.3	0.24	172	4.68	0.04	12.9	25.9
TC339		87.8	8.65	8.48	0.05	4.5	0.038	0.31	4.5	11.9	0.23	176	1.04	0.05	10.9	24.5
TC340		127.5	9.43	16.50	0.07	3.9	0.105	1.14	6.2	16.4	0.34	139	1.70	0.09	12.0	23.9
TC341		240	6.23	19.45	0.08	4.9	0.417	0.91	9.2	24.7	0.38	215	2.04	0.10	15.1	35.2
TC342		879	3.55	21.8	0.16	2.2	0.080	3.13	26.5	45.6	2.18	466	0.73	0.78	9.2	82.6
TC343		418	18.05	23.0	1.10	1.1	0.177	0.42	216	21.2	2.22	368	1.26	0.08	3.2	105.5
TC344		113.5	10.75	18.35	0.11	2.2	0.045	0.28	9.4	27.5	0.43	179	1.47	0.04	8.6	39.0
TC345		79.0	6.75	19.50	0.13	4.9	0.050	0.39	21.1	23.8	0.51	118	2.48	0.07	15.7	29.6
TC346		336	7.05	21.9	0.09	4.2	0.061	1.65	1.3	36.2	0.78	158	1.18	0.08	8.9	130.5



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CERTIFICATE OF ANALYSIS AD18286732

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm 10	ppm 0.5	ppm 0.1	ppm 0.002	% 0.01	ppm 0.05	ppm 0.1	ppm 1	ppm 0.2	ppm 0.2	ppm 0.05	ppm 0.05	ppm 0.01	% 0.005	ppm 0.02
TC310		90	3.0	38.9	<0.002	0.06	2.45	10.2	1	4.6	108.0	0.97	<0.05	8.59	0.568	0.10
TC311		160	17.8	134.5	<0.002	0.04	1.45	16.1	<1	4.3	122.5	0.56	0.40	12.70	0.440	0.26
TC312		200	11.5	202	<0.002	0.06	1.33	14.9	1	2.6	131.5	0.46	0.06	7.76	0.402	0.40
TC313		150	16.8	143.5	<0.002	0.06	1.08	18.3	1	2.8	121.5	0.51	0.12	5.84	0.394	0.33
TC314		200	10.6	199.5	0.003	0.43	0.87	21.0	<1	2.7	123.0	0.50	0.07	11.25	0.464	0.45
TC315		170	5.0	146.0	0.003	0.24	1.24	18.2	<1	4.3	110.0	0.42	0.06	7.74	0.385	0.35
TC316		480	16.7	128.0	0.026	4.45	2.60	28.0	1	3.8	145.5	0.41	0.16	11.10	0.401	0.69
TC317		40	2.0	8.7	<0.002	0.14	0.47	2.0	<1	0.9	11.3	0.30	<0.05	3.28	0.190	0.04
TC318		80	4.0	40.2	<0.002	0.31	0.84	7.9	1	2.7	26.3	0.69	<0.05	6.59	0.500	0.14
TC319		70	2.9	21.2	<0.002	0.16	0.95	4.0	1	1.4	21.7	0.57	<0.05	4.12	0.401	0.07
TC320		50	2.9	37.9	<0.002	0.02	0.60	11.4	<1	1.0	407	0.39	<0.05	8.09	0.431	0.13
TC321		40	3.3	97.5	<0.002	0.15	4.57	10.7	<1	2.8	32.4	0.44	<0.05	7.50	0.391	0.29
TC322		230	7.1	80.0	0.002	0.44	1.91	39.2	1	3.8	141.5	0.16	0.06	36.6	0.542	0.21
TC323		710	15.6	61.7	<0.002	0.06	0.58	14.2	4	1.5	77.1	0.25	0.05	28.4	0.307	0.13
TC324		210	7.8	42.5	<0.002	0.05	1.08	10.3	4	4.0	55.8	1.09	0.05	9.21	0.707	0.12
TC325		360	3.3	153.5	<0.002	0.16	1.47	29.2	<1	1.5	110.0	0.59	<0.05	10.65	0.414	0.43
TC326		70	1.5	232	0.004	1.56	1.92	27.2	<1	3.4	70.5	0.37	<0.05	8.13	0.403	0.43
TC327		170	2.3	203	0.007	3.76	3.47	27.2	1	1.3	77.7	0.15	0.09	4.91	0.231	0.47
TC328		40	2.5	177.5	<0.002	0.03	9.31	20.1	1	1.4	107.5	0.22	0.46	6.75	0.375	0.42
TC329		110	3.6	213	0.011	1.91	156.5	46.6	3	1.5	24.5	0.36	0.25	9.62	0.424	0.49
TC330		60	2.7	152.0	<0.002	0.09	35.1	38.1	<1	9.6	34.7	0.31	<0.05	7.36	0.388	0.35
TC331		60	2.5	100.5	<0.002	0.04	14.65	30.2	<1	2.9	65.5	0.29	0.06	4.25	0.334	0.23
TC332		120	6.4	92.1	<0.002	0.04	7.28	16.6	2	5.1	62.1	0.67	0.05	5.62	0.624	0.30
TC333		100	3.9	63.0	<0.002	0.05	8.47	11.3	2	3.1	43.1	0.51	<0.05	4.71	0.531	0.22
TC334		110	1.8	19.7	<0.002	0.03	3.85	28.0	2	2.0	40.1	0.42	<0.05	1.83	0.313	0.27
TC335		230	5.3	157.5	<0.002	0.05	1.60	18.8	<1	2.9	139.5	0.45	0.05	11.95	0.353	0.43
TC336		610	9.6	205	<0.002	0.21	0.73	43.5	1	7.7	165.5	0.60	<0.05	17.00	0.557	0.49
TC337		360	7.3	18.8	<0.002	0.05	1.23	11.8	5	4.3	18.0	0.43	1.78	15.80	0.347	0.05
TC338		370	6.8	15.3	<0.002	0.04	1.79	10.5	3	4.6	24.7	0.81	0.24	9.34	0.523	0.04
TC339		170	3.6	16.0	<0.002	0.03	1.04	7.1	2	1.9	15.4	0.73	0.05	7.72	0.500	0.05
TC340		150	4.3	49.7	<0.002	0.04	1.41	10.6	3	2.9	37.6	0.89	<0.05	16.50	0.514	0.12
TC341		170	5.4	32.9	<0.002	0.04	3.19	14.1	3	2.9	151.5	1.05	<0.05	11.30	0.717	0.09
TC342		190	3.0	144.0	<0.002	0.16	1.99	27.8	<1	2.3	115.0	0.49	<0.05	17.15	0.429	0.54
TC343		>10000	5.5	14.0	<0.002	0.04	3.89	13.4	3	2.2	126.5	0.21	0.11	86.4	0.347	0.05
TC344		340	4.3	15.5	<0.002	0.05	1.16	7.5	5	1.7	16.6	0.66	<0.05	9.92	0.465	0.08
TC345		320	6.7	17.7	<0.002	0.04	1.79	11.5	3	2.6	26.0	1.07	<0.05	11.80	0.613	0.06
TC346		290	5.2	77.4	<0.002	0.04	2.24	21.7	3	2.1	33.1	0.65	0.18	12.05	0.472	0.18



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
TC310		4.0	83	1.6	7.1	10	187.0
TC311		6.4	185	11.4	14.5	16	172.0
TC312		5.6	125	3.1	15.9	36	171.0
TC313		4.8	113	6.3	17.9	25	140.5
TC314		10.7	154	3.3	24.2	91	140.5
TC315		8.4	137	5.9	27.7	13	125.5
TC316		28.7	188	3.6	53.0	37	132.5
TC317		1.1	26	1.0	4.7	14	104.0
TC318		1.5	103	3.2	2.7	11	87.7
TC319		1.4	80	2.5	3.1	3	139.5
TC320		1.1	157	2.6	10.2	11	61.3
TC321		1.7	115	5.0	14.3	10	82.9
TC322		5.2	683	2.5	48.5	56	31.5
TC323		2.5	597	1.0	6.7	23	56.8
TC324		2.5	394	5.7	7.9	10	145.5
TC325		3.1	152	2.6	9.8	65	145.0
TC326		3.1	262	6.1	13.4	49	83.0
TC327		1.7	190	2.5	8.5	26	55.1
TC328		1.9	174	8.1	4.3	21	56.2
TC329		5.4	333	3.0	14.1	32	66.9
TC330		7.9	368	9.5	21.8	77	58.4
TC331		2.2	197	4.6	7.0	27	42.8
TC332		2.7	296	6.4	9.7	17	98.3
TC333		2.1	216	4.9	5.3	14	69.2
TC334		2.5	223	3.0	2.1	56	66.4
TC335		9.8	134	9.6	36.1	56	165.0
TC336		5.3	222	5.7	31.6	12	140.0
TC337		6.7	478	19.6	6.4	3	144.0
TC338		4.9	392	16.7	9.5	7	163.0
TC339		4.0	239	7.3	5.9	6	158.0
TC340		3.9	252	8.5	5.1	12	138.5
TC341		3.0	410	8.5	10.3	11	177.0
TC342		5.3	669	11.3	34.3	59	73.7
TC343		6.0	942	6.0	143.5	24	36.6
TC344		1.6	433	4.7	4.4	8	73.3
TC345		3.6	318	9.1	11.9	7	173.5
TC346		3.0	431	4.2	3.2	27	139.5



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CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: NSS is non-sufficient sample.
ALL METHODS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

ACCREDITATION COMMENTS

Applies to Method: NATA Accreditation covers the performance of this service but does not cover the performance of ALS Perth Sample Preparation. Corporate Accreditation No: 825, Corporate Site No: 23001. The Technical Signatory is Wendy Wong, Senior QC Chemist
Au-ICP21 ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Perth located at 31 Denninup Way, Malaga, Australia. Processed at ALS Perth Sample Preparation at 79 Distinction Road, Wangara, WA, Australia
Au-ICP21 ME-MS61

Applies to Method: Processed at ALS Adelaide located at Unit 1, 1 Burma Road, Pooraka, Adelaide, SA, Australia.
LEV-01 LOG-22 PUL-32 PUL-QC
WEI-21