



Australian Laboratory Services Pty. Ltd.

32 Shand Street
Stafford
Brisbane QLD 4053
Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218
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No: 825, Corporate Site No: 23001.

CERTIFICATE PH18150724

Project: THOMAS CREEK

P.O. No.: SSF008

This report is for 112 Drill Core samples submitted to our lab in Perth, WA, Australia
on 18-JUN-2018.

The following have access to data associated with this certificate:

ANDY RUST

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Plus Appendix Pages
Finalized Date: 12-JUL-2018
Account: ACCELE

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LEV-01	Waste Disposal Levy
TRSPEC-20	Spectral Scan VNIR and SWIR
CRU-31	Fine crushing - 70% <2mm
SPLIT-D	Create D Split
CRU-QC	Crushing QC Test
SAM-COR01	Sample Core from Boxes - Regular
LOG-22	Sample login - Rcd w/o BarCode
CRU-21	Crush entire sample >70% -6 mm
PUL-23	Pulv Sample - Split/Retain
BAG-01	Bulk Master for Storage
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS
Au-AA25	Ore Grade Au 30g FA AA finish AAS

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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CERTIFICATE OF ANALYSIS PH18150724

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	Au-AA25 Au ppm 0.01	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
TCD 212		6.64	93.1	0.01	0.04	7.81	7.6	460	1.16	0.03	3.65	0.02	17.50	51.2	122	0.97
TCD 213		6.83		<0.01	0.04	8.00	8.6	430	1.66	0.05	2.11	<0.02	20.5	61.0	39	1.13
TCD 214		7.56		<0.01	0.05	7.94	4.7	430	1.23	0.12	2.86	0.03	12.95	58.3	70	1.35
TCD 215		6.49		<0.01	0.02	7.80	5.5	370	1.20	0.05	2.64	0.02	19.60	31.6	171	2.88
TCD 216		6.79		<0.01	0.03	8.15	5.7	440	1.60	0.04	2.04	<0.02	17.40	18.0	35	1.54
TCD 217		6.43		<0.01	0.02	7.62	5.5	460	1.39	0.03	2.76	<0.02	23.2	23.0	141	1.47
TCD 218		6.75		<0.01	0.08	7.59	5.9	420	1.32	0.09	2.59	0.03	17.85	61.3	127	1.11
TCD 219		6.59		<0.01	0.06	7.70	4.7	480	1.30	0.09	3.14	0.03	14.85	54.1	171	1.18
TCD 220		7.01		<0.01	0.15	7.63	3.8	450	1.42	0.18	2.66	0.12	13.85	67.3	154	1.31
TCD 221		6.78		<0.01	0.05	7.83	3.6	480	1.07	0.09	2.84	0.02	15.95	45.6	156	1.30
TCD 222		6.61		<0.01	0.04	7.82	4.5	340	1.07	0.05	2.87	0.02	14.55	29.7	180	1.32
TCD 223		6.78		0.01	0.09	7.76	5.4	430	1.57	0.16	3.13	0.19	25.3	30.0	101	0.85
TCD 224		6.35		<0.01	0.10	8.09	5.4	570	1.86	0.20	2.91	0.05	46.9	39.4	47	0.89
TCD 225		7.39		<0.01	0.07	7.89	5.0	490	1.15	0.05	3.72	0.03	21.7	52.9	200	1.36
TCD 226		6.68		<0.01	0.02	7.71	4.1	470	1.13	0.02	4.52	0.03	16.25	57.4	209	1.30
TCD 227		7.46		<0.01	0.04	8.46	4.4	510	1.48	0.08	2.62	0.02	14.80	62.0	95	0.92
TCD 228		6.85		<0.01	0.06	8.34	3.3	520	1.34	0.12	2.48	0.02	9.59	70.6	102	1.02
TCD 229		6.17		<0.01	0.04	7.82	4.2	510	1.02	0.09	2.10	0.02	8.75	64.9	116	0.89
TCD 230		3.84		0.01	0.07	7.82	5.6	320	1.02	0.15	1.96	<0.02	15.05	98.2	92	1.09
TCD 231		2.71		<0.01	0.04	8.13	4.8	490	1.13	0.13	1.93	0.02	11.75	67.7	109	1.30
TCD 232		3.62		<0.01	0.04	8.97	3.7	590	0.97	0.07	2.60	0.03	13.85	37.9	73	2.19
TCD 233		3.50		<0.01	0.10	8.93	6.1	570	1.12	0.23	2.50	0.04	16.30	129.5	73	1.84
TCD 234		3.68		0.01	0.14	8.72	8.9	570	1.01	0.27	1.93	1.85	13.55	113.5	97	2.46
TCD 235		3.44		<0.01	0.20	7.99	5.9	570	1.00	0.21	1.86	0.28	16.10	101.5	102	1.87
TCD 236		3.00		<0.01	0.21	8.70	4.6	560	1.12	0.18	1.92	0.02	9.49	67.6	88	2.26
TCD 237		3.53		<0.01	0.16	8.66	6.1	660	0.99	0.17	1.78	<0.02	11.65	74.2	95	2.11
TCD 238		3.46		<0.01	0.12	8.21	4.6	520	0.97	0.12	2.15	1.01	16.25	56.5	101	1.99
TCD 239		3.55		<0.01	0.04	8.78	4.4	550	1.10	0.06	2.35	0.05	22.6	52.7	90	2.13
TCD 240		3.54		<0.01	0.06	8.12	4.7	560	1.06	0.11	1.84	0.04	17.45	84.7	98	2.30
TCD 241		3.52		<0.01	0.05	8.42	3.8	840	1.17	0.10	2.16	0.03	21.7	83.5	122	3.26
TCD 242		1.96		<0.01	0.06	8.59	10.5	430	1.17	0.14	1.65	0.21	10.35	60.6	97	2.17
TCD 243		1.89		<0.01	0.07	8.80	11.2	540	1.03	0.26	1.14	<0.02	11.70	101.0	104	1.23
TCD 244		1.70		0.01	0.16	8.61	12.8	530	1.14	0.26	1.35	0.04	9.69	255	98	2.13
TCD 245		1.96		<0.01	0.09	8.27	11.8	380	1.09	0.18	1.43	0.44	9.75	168.0	93	2.36
TCD 246		1.93		0.01	0.10	5.67	66.7	240	1.05	0.34	1.54	0.08	39.2	510	86	1.92
TCD 247		1.97		<0.01	0.10	7.62	9.0	290	0.93	0.20	1.22	0.07	10.45	229	104	2.28
TCD 248		1.82		<0.01	0.06	8.33	10.5	360	1.13	0.11	1.33	0.11	10.25	157.0	107	3.35
TCD 249		1.87		<0.01	0.19	8.06	11.9	380	1.21	0.26	1.61	0.33	12.70	199.0	102	2.97
TCD 250		4.26		<0.01	0.04	6.54	5.8	490	1.09	0.07	3.77	<0.02	56.5	46.2	313	0.98
TCD 251		3.56		<0.01	0.02	6.68	4.3	630	1.02	0.05	3.91	<0.02	116.5	32.1	299	0.79



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CERTIFICATE OF ANALYSIS PH18150724

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
TCD 212		192.0	4.34	12.70	0.09	1.5	0.045	1.89	6.9	10.8	3.68	573	0.30	2.60	5.9
TCD 213		148.5	2.80	12.80	0.08	2.1	0.017	1.62	10.9	7.1	0.99	266	1.34	3.41	4.0
TCD 214		176.5	4.29	15.05	0.07	2.1	0.024	1.58	6.2	13.3	2.43	396	0.58	2.66	6.1
TCD 215		95.7	4.46	13.10	0.08	1.7	0.028	1.64	8.5	21.5	3.91	559	0.78	2.17	4.3
TCD 216		123.5	2.27	14.10	0.07	2.1	0.018	1.70	9.7	10.5	1.22	255	0.85	3.38	3.7
TCD 217		82.0	3.76	13.50	0.07	1.7	0.028	1.70	10.8	18.4	3.23	513	0.57	2.61	4.5
TCD 218		240	4.69	13.10	0.08	2.1	0.036	1.59	8.0	14.4	2.78	527	1.58	2.90	5.0
TCD 219		245	4.98	12.55	0.08	1.8	0.038	1.69	6.2	15.8	3.20	520	0.55	2.64	6.4
TCD 220		645	5.53	12.95	0.07	2.4	0.036	1.39	6.6	19.6	3.20	572	0.35	2.67	6.5
TCD 221		156.0	4.76	12.30	0.08	1.8	0.034	1.68	7.2	17.4	3.68	612	0.25	2.64	5.6
TCD 222		136.5	4.29	12.80	0.08	1.9	0.035	1.39	6.3	18.6	3.75	600	0.34	2.95	5.7
TCD 223		346	4.42	13.95	0.08	2.2	0.030	1.66	13.1	9.1	2.02	504	0.54	2.75	4.1
TCD 224		268	4.40	14.65	0.08	2.2	0.017	1.69	24.9	10.9	1.25	534	0.86	2.83	4.5
TCD 225		187.5	5.43	12.75	0.09	1.6	0.042	1.85	9.7	16.3	4.20	743	0.24	2.14	6.1
TCD 226		89.7	5.59	12.20	0.09	1.4	0.048	1.71	5.9	15.7	4.89	736	0.58	1.88	6.8
TCD 227		93.2	4.25	13.30	0.07	2.4	0.016	1.84	8.5	16.1	1.79	463	15.00	3.00	5.8
TCD 228		293	5.22	14.35	0.07	2.4	0.020	1.77	5.6	24.7	2.54	498	4.52	2.85	5.9
TCD 229		94.2	5.28	12.85	0.07	2.1	0.023	1.66	3.8	24.0	3.01	479	2.37	2.76	6.1
TCD 230		40.7	5.20	12.20	0.08	2.2	0.021	1.49	8.1	17.3	1.70	370	6.59	2.82	5.0
TCD 231		79.7	4.82	14.15	0.08	2.2	0.020	1.89	6.5	22.7	2.55	554	1.03	2.80	5.3
TCD 232		46.1	3.89	18.45	0.08	1.8	0.014	2.01	7.1	26.9	3.12	469	0.76	2.65	4.8
TCD 233		529	6.50	16.90	0.08	1.8	0.035	2.02	8.4	19.0	2.79	474	1.06	3.02	6.0
TCD 234		631	5.60	16.00	0.08	1.8	0.034	2.35	7.6	18.0	3.12	329	1.22	2.83	7.4
TCD 235		607	5.43	13.40	0.08	2.0	0.026	1.70	8.9	16.9	2.57	372	1.67	3.01	6.3
TCD 236		457	4.65	17.20	0.08	1.9	0.019	1.96	5.2	19.0	2.68	447	1.22	2.83	6.0
TCD 237		233	5.10	17.80	0.08	2.2	0.020	2.29	6.2	20.5	2.94	626	1.28	2.98	6.2
TCD 238		126.5	4.33	18.15	0.07	2.7	0.016	1.69	8.7	22.7	2.91	523	0.81	2.81	6.0
TCD 239		112.0	4.21	18.80	0.09	2.3	0.015	1.85	11.4	19.9	2.85	418	1.13	2.99	6.4
TCD 240		377	4.37	19.85	0.09	2.0	0.015	1.98	9.6	20.1	2.91	250	1.52	2.85	5.5
TCD 241		324	4.50	20.5	0.09	1.9	0.014	2.28	11.2	19.5	3.40	282	0.86	2.63	7.1
TCD 242		270	4.52	15.40	0.08	1.9	0.016	1.65	6.7	25.8	2.96	340	0.90	3.21	7.8
TCD 243		512	4.84	10.80	0.07	1.4	0.021	2.01	8.0	16.5	1.33	291	1.66	4.17	3.4
TCD 244		958	6.61	11.10	0.08	1.4	0.026	2.04	6.1	28.4	2.01	250	0.72	3.21	5.5
TCD 245		1045	6.22	11.60	0.08	1.5	0.042	1.58	6.1	29.1	2.08	190	2.97	3.16	5.7
TCD 246		1215	17.30	9.21	0.11	1.3	0.056	0.72	19.9	27.9	2.22	670	3.56	1.85	4.6
TCD 247		1315	8.22	11.15	0.07	1.6	0.045	1.32	6.4	31.8	1.98	210	0.60	2.84	4.3
TCD 248		860	6.80	12.35	0.07	1.6	0.033	1.82	6.2	29.2	2.53	156	1.17	2.94	5.7
TCD 249		911	7.53	10.90	0.09	1.6	0.043	1.68	7.0	36.0	2.35	208	2.92	2.71	7.4
TCD 250		133.0	7.88	11.30	0.10	3.6	0.086	1.79	26.9	20.7	4.60	723	2.28	1.75	7.9
TCD 251		8.6	7.28	11.90	0.14	3.8	0.085	2.19	59.6	16.5	4.61	675	0.88	1.88	8.0



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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
TCD 212		1170	2.4	78.9	0.002	0.46	0.43	26.6	1	1.4	255	0.47	<0.05	16.35	0.333	0.17
TCD 213		1000	2.2	72.8	0.007	0.75	0.42	10.9	1	0.5	296	0.47	<0.05	26.2	0.275	0.14
TCD 214		460	2.6	58.1	0.004	1.09	0.37	23.4	1	0.7	306	0.47	0.05	10.25	0.384	0.15
TCD 215		1250	1.9	89.7	0.002	0.40	0.36	25.4	1	1.0	244	0.41	<0.05	13.40	0.315	0.16
TCD 216		680	1.9	75.6	0.003	0.27	0.36	9.1	<1	0.6	294	0.38	<0.05	23.9	0.274	0.15
TCD 217		970	5.3	54.1	0.002	0.23	0.35	25.7	1	1.1	271	0.43	<0.05	13.85	0.315	0.16
TCD 218		820	18.5	64.5	0.009	1.28	0.35	26.2	1	1.2	237	0.48	0.06	14.60	0.324	0.16
TCD 219		520	5.0	67.8	0.005	1.07	0.36	25.9	1	1.2	246	0.48	<0.05	10.00	0.367	0.17
TCD 220		180	25.5	47.5	0.009	1.97	0.30	23.5	2	0.9	251	0.41	0.10	8.40	0.351	0.13
TCD 221		550	6.4	63.4	0.004	1.03	0.28	26.3	1	1.1	224	0.40	0.05	9.02	0.369	0.16
TCD 222		590	3.0	55.0	0.003	0.46	0.32	28.9	1	1.1	186.0	0.45	<0.05	11.35	0.342	0.14
TCD 223		590	7.9	82.9	0.005	1.15	0.46	15.8	1	0.8	278	0.42	0.06	19.80	0.288	0.16
TCD 224		680	6.4	77.2	0.007	1.81	0.41	10.4	2	0.6	245	0.47	0.09	22.9	0.282	0.16
TCD 225		720	6.6	87.8	0.002	0.68	0.34	36.6	1	1.3	238	0.53	<0.05	13.45	0.351	0.17
TCD 226		870	3.0	89.7	0.003	0.62	0.34	36.1	1	1.6	261	0.51	<0.05	11.10	0.368	0.16
TCD 227		530	2.9	82.3	0.033	1.14	0.32	14.8	1	0.5	247	0.40	<0.05	18.40	0.361	0.17
TCD 228		80	3.9	77.4	0.017	1.75	0.30	21.3	2	0.6	252	0.38	0.07	9.03	0.397	0.16
TCD 229		360	3.0	62.4	0.004	1.27	0.42	22.0	1	0.8	279	0.42	0.05	8.36	0.384	0.14
TCD 230		490	3.1	63.5	0.012	1.95	0.60	10.4	2	0.6	201	0.39	0.08	9.45	0.355	0.13
TCD 231		300	2.8	90.5	0.006	1.33	0.33	26.3	1	0.7	295	0.43	0.06	8.01	0.378	0.17
TCD 232		530	4.5	68.2	0.004	0.60	0.25	21.1	1	0.6	326	0.39	<0.05	7.90	0.387	0.18
TCD 233		370	5.9	80.1	0.008	2.97	0.44	26.3	3	0.7	309	0.35	0.06	8.26	0.389	0.19
TCD 234		230	127.0	111.0	0.005	2.59	0.41	39.3	3	0.4	293	0.37	0.07	7.83	0.456	0.19
TCD 235		190	6.5	76.2	0.005	2.26	0.44	33.5	2	0.6	285	0.38	0.07	8.55	0.383	0.15
TCD 236		180	8.3	85.6	0.004	1.49	0.45	27.0	1	0.6	271	0.39	0.07	7.94	0.414	0.19
TCD 237		290	6.3	104.5	0.005	1.60	0.47	29.4	2	0.7	274	0.42	0.06	9.41	0.409	0.21
TCD 238		220	17.6	84.6	0.003	1.07	0.40	27.8	1	0.6	285	0.44	<0.05	10.05	0.397	0.16
TCD 239		460	2.1	88.7	0.004	0.97	0.36	24.8	1	0.6	295	0.43	<0.05	9.14	0.407	0.17
TCD 240		140	3.7	83.8	0.004	1.92	0.38	33.6	2	0.4	318	0.36	<0.05	9.01	0.382	0.17
TCD 241		110	3.4	89.3	0.004	1.71	0.32	40.1	2	0.4	344	0.42	<0.05	10.85	0.404	0.19
TCD 242		170	36.3	73.5	0.004	1.11	0.43	37.5	1	0.4	283	0.39	<0.05	8.26	0.405	0.15
TCD 243		220	6.3	86.4	0.010	2.27	0.51	17.2	2	0.3	280	0.21	0.07	2.78	0.310	0.18
TCD 244		50	12.5	90.7	0.008	3.99	0.52	30.3	5	0.3	293	0.31	0.09	8.11	0.403	0.20
TCD 245		70	27.4	73.3	0.015	3.29	0.48	32.0	4	0.3	282	0.33	0.10	6.91	0.377	0.16
TCD 246		930	5.5	36.7	0.029	8.63	2.42	33.9	8	0.8	151.5	0.32	0.23	15.75	0.313	0.25
TCD 247		80	6.7	68.9	0.009	4.30	0.45	30.4	6	0.4	212	0.30	0.10	8.01	0.369	0.13
TCD 248		90	4.8	88.4	0.009	3.19	0.50	39.3	4	0.3	234	0.34	0.09	7.65	0.400	0.18
TCD 249		190	7.8	78.7	0.015	4.19	0.72	39.9	5	0.4	233	0.40	0.06	6.29	0.414	0.16
TCD 250		540	1.9	88.2	0.003	0.50	0.75	29.8	1	1.2	183.5	0.46	<0.05	10.70	0.314	0.15
TCD 251		590	1.4	91.8	<0.002	0.19	0.83	29.7	<1	1.3	186.0	0.46	<0.05	11.25	0.309	0.16



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CERTIFICATE OF ANALYSIS PH18150724

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	CRU-QC
		U	V	W	Y	Zn	Zr	Pass2mm
		ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5	% 0.01
TCD 212		1.7	97	0.8	12.3	23	56.9	90.1
TCD 213		2.7	47	1.2	4.8	11	81.3	
TCD 214		1.3	120	1.7	5.9	20	79.5	
TCD 215		1.4	86	0.5	9.5	21	63.3	
TCD 216		2.3	49	1.0	4.4	9	79.6	
TCD 217		1.8	99	0.6	9.0	23	63.1	
TCD 218		1.7	105	1.2	11.4	30	75.3	
TCD 219		1.1	112	0.7	11.0	22	68.7	
TCD 220		1.0	130	0.6	7.8	47	87.6	
TCD 221		1.1	140	0.9	9.2	41	68.3	
TCD 222		1.3	135	0.7	11.5	34	73.8	
TCD 223		2.0	108	0.8	9.7	34	79.8	
TCD 224		3.1	65	0.7	7.7	35	81.2	
TCD 225		1.5	132	0.6	15.1	43	58.2	
TCD 226		1.2	140	0.5	17.3	29	50.3	
TCD 227		1.8	98	1.3	4.9	29	89.0	
TCD 228		1.1	148	0.6	4.1	31	89.8	
TCD 229		1.1	144	0.9	5.9	32	77.7	
TCD 230		1.1	84	1.7	4.0	17	78.2	
TCD 231		1.0	96	0.9	4.2	18	81.4	
TCD 232		0.9	143	0.6	5.4	20	67.0	
TCD 233		0.9	163	1.0	5.8	24	65.2	
TCD 234		0.8	227	0.7	3.6	417	64.7	
TCD 235		1.1	168	1.0	5.1	73	75.4	
TCD 236		0.9	165	0.7	3.8	46	67.7	
TCD 237		1.1	142	1.0	6.0	66	79.5	
TCD 238		1.3	153	1.0	7.5	153	101.5	
TCD 239		1.2	172	1.1	8.1	29	85.0	
TCD 240		1.0	201	0.6	5.5	18	75.2	
TCD 241		0.9	231	0.4	6.5	18	73.8	
TCD 242		0.8	200	1.2	2.1	74	70.2	
TCD 243		0.4	105	1.4	1.4	26	53.3	
TCD 244		0.7	154	1.3	1.6	40	52.3	
TCD 245		0.6	154	0.8	1.4	138	56.3	
TCD 246		1.7	127	2.3	8.9	25	48.2	
TCD 247		0.7	145	0.8	1.7	19	64.3	
TCD 248		0.8	185	0.6	1.7	39	60.8	
TCD 249		0.9	178	0.9	3.7	106	64.1	
TCD 250		2.6	178	0.7	21.1	23	145.5	
TCD 251		2.7	183	0.8	23.1	24	154.5	



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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	Au-AA25 Au ppm 0.01	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
TCD 252		3.71		<0.01	0.05	7.30	5.4	530	0.99	0.13	2.52	0.07	70.5	75.8	146	1.32
TCD 253		3.70		0.01	0.04	9.57	3.5	520	1.15	0.09	2.65	0.03	12.70	68.8	59	2.07
TCD 254		3.54		0.01	0.05	8.68	4.0	670	1.09	0.10	2.44	0.05	24.3	63.6	65	1.69
TCD 255		3.56		0.01	0.08	7.67	3.8	590	1.22	0.15	2.17	0.15	46.8	115.0	88	1.95
TCD 256		3.57		<0.01	0.08	7.81	3.6	510	1.28	0.13	2.12	0.02	43.1	98.1	96	1.81
TCD 257		3.90		0.01	0.19	7.78	4.2	290	1.18	0.24	2.03	0.90	31.7	112.0	85	0.99
TCD 258		3.60		<0.01	0.26	7.92	7.6	470	1.17	0.34	1.59	3.10	20.7	136.5	60	1.51
TCD 259		1.97		0.01	1.13	6.57	26.4	150	0.92	0.62	1.17	2.67	9.89	448	97	1.26
TCD 260		1.70		<0.01	0.32	7.16	5.7	470	1.09	0.25	1.70	2.04	16.85	153.5	71	2.15
TCD 261		1.93		0.01	0.75	7.34	8.4	510	0.99	0.98	1.37	3.91	28.4	179.0	101	1.64
TCD 262		1.95	91.1	0.01	0.60	6.15	6.4	160	0.93	0.29	1.43	1.08	25.2	263	81	1.20
TCD 263		1.35		<0.01	0.46	7.80	8.3	620	1.19	0.10	1.83	0.20	39.5	143.0	103	2.45
TCD 264		1.84		<0.01	0.58	6.48	22.9	180	0.95	0.22	1.59	0.21	27.6	278	90	1.29
TCD 265		1.77		<0.01	0.17	7.97	3.4	560	1.11	0.13	2.06	0.12	27.5	136.0	114	2.33
TCD 266		1.82		<0.01	0.08	7.99	3.6	640	1.04	0.05	2.23	0.09	30.7	77.0	89	2.76
TCD 267		1.64		<0.01	0.19	7.98	3.7	510	1.16	0.18	2.07	0.19	17.80	153.0	96	2.06
TCD 268		2.45		<0.01	0.58	5.48	13.9	110	0.72	0.50	1.48	0.28	14.65	762	140	2.00
TCD 269		1.91		<0.01	0.07	8.71	4.0	500	1.16	0.11	2.36	0.10	23.7	78.3	91	3.12
TCD 270		1.96		0.01	0.12	6.83	4.1	350	0.84	0.19	2.34	0.05	22.4	180.5	91	2.65
TCD 271		2.08		<0.01	0.09	7.61	5.0	440	1.02	0.19	2.42	0.07	38.8	147.5	90	2.59
TCD 272		2.08		<0.01	0.17	4.58	22.0	200	0.85	0.67	1.71	0.06	30.3	488	113	2.84
TCD 273		2.05		0.01	0.27	2.48	40.7	140	0.73	0.47	2.17	0.10	38.7	1140	134	1.58
TCD 274		1.95		0.01	0.07	7.25	7.0	340	0.93	0.09	2.44	0.03	53.8	238	102	2.65
TCD 275		1.84		<0.01	0.04	7.93	4.2	580	1.19	0.06	2.21	0.02	47.7	76.5	110	3.06
TCD 276		1.84		<0.01	0.03	8.23	4.0	500	1.13	0.04	2.28	0.02	44.4	53.7	100	3.37
TCD 277		1.84		<0.01	0.03	8.25	8.3	730	1.42	0.04	2.06	0.03	49.2	59.9	100	3.20
TCD 278		1.79		0.01	0.02	8.45	4.5	540	1.09	0.03	2.39	0.03	44.2	38.2	90	2.56
TCD 279		1.87		0.01	0.05	7.84	4.7	550	1.03	0.08	2.70	0.08	37.6	165.0	85	2.08
TCD 280		1.90		<0.01	0.03	7.86	3.9	490	1.05	0.09	2.43	0.03	29.3	95.4	98	2.07
TCD 281		1.88		<0.01	0.05	7.25	4.6	420	0.93	0.33	2.27	0.03	20.2	143.5	89	2.29
TCD 282		2.18		<0.01	0.05	7.27	4.6	470	1.02	0.23	1.58	0.17	12.70	119.5	73	2.60
TCD 283		1.98		0.01	0.06	7.03	5.1	350	1.10	0.20	1.78	0.04	18.75	268	89	3.49
TCD 284		1.83		<0.01	0.08	7.15	5.3	210	1.05	0.44	1.20	0.05	13.30	206	94	2.58
TCD 285		1.78		<0.01	0.07	6.86	4.4	280	1.01	0.42	1.28	0.76	11.65	254	93	2.63
TCD 286		2.30		<0.01	0.17	6.01	13.0	180	0.86	0.10	0.64	0.05	10.00	383	118	2.87
TCD 287		1.80		<0.01	0.06	7.41	4.1	250	1.17	0.21	0.91	0.03	11.30	223	88	2.79
TCD 288		1.77		<0.01	0.11	5.93	6.8	140	0.77	0.41	1.13	0.07	12.20	303	91	2.64
TCD 289		1.70		<0.01	0.06	7.91	8.2	420	1.30	0.19	1.63	1.45	20.3	188.0	98	4.08
TCD 290		2.86		<0.01	0.23	4.35	88.5	90	0.80	0.97	1.62	0.08	18.40	792	146	2.00
TCD 291		2.14		<0.01	0.13	5.96	9.7	110	0.80	0.54	1.69	0.08	27.6	324	99	2.05



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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
TCD 252		253	5.28	11.95	0.11	2.2	0.042	1.93	35.6	16.5	3.06	373	4.83	2.27	6.6
TCD 253		244	4.05	18.15	0.09	1.4	0.014	2.25	6.3	31.8	3.39	304	1.46	2.30	6.6
TCD 254		291	3.89	16.35	0.10	1.5	0.014	2.42	11.7	20.1	2.94	262	0.49	2.57	6.0
TCD 255		563	5.20	14.50	0.11	2.1	0.015	1.58	21.7	14.8	2.63	254	0.38	2.65	6.5
TCD 256		420	5.52	12.50	0.10	2.3	0.019	1.44	20.8	14.0	2.56	283	0.52	2.98	6.5
TCD 257		862	6.49	11.95	0.08	2.3	0.025	1.12	16.8	13.9	2.11	350	0.44	3.34	6.2
TCD 258		1030	5.55	11.20	0.07	2.5	0.019	1.36	10.7	12.3	1.90	259	0.98	3.26	5.9
TCD 259		2580	11.10	10.50	0.08	2.3	0.044	1.26	5.3	16.3	2.47	369	4.99	2.25	7.2
TCD 260		740	6.35	13.00	0.08	2.3	0.024	1.66	9.1	14.6	3.11	340	0.66	2.40	7.4
TCD 261		532	6.84	11.85	0.08	2.3	0.070	1.33	13.9	14.2	2.55	463	3.18	2.63	8.1
TCD 262		1980	9.95	9.04	0.08	2.1	0.029	1.11	12.5	9.5	1.62	349	3.25	2.33	6.0
TCD 263		689	5.99	13.25	0.08	2.6	0.014	1.70	19.5	14.9	2.92	283	1.16	2.28	9.4
TCD 264		1680	9.25	10.95	0.08	2.1	0.023	1.43	13.8	11.2	2.15	281	2.38	2.05	6.6
TCD 265		639	5.80	13.60	0.09	2.5	0.015	1.99	13.9	12.6	2.70	295	0.90	2.53	7.9
TCD 266		391	4.51	16.65	0.09	1.8	0.010	1.92	14.7	18.2	3.23	247	3.23	1.94	7.1
TCD 267		863	7.03	16.10	0.08	1.9	0.017	1.65	9.1	17.9	3.36	362	4.99	2.11	7.8
TCD 268		2330	16.20	10.80	0.09	1.5	0.034	0.97	7.5	14.6	3.17	396	24.9	1.41	8.3
TCD 269		525	5.09	17.35	0.08	2.0	0.011	2.09	11.9	16.0	3.34	276	1.38	2.23	8.0
TCD 270		1580	11.40	12.25	0.10	2.0	0.027	1.68	11.1	11.7	2.94	494	4.83	1.87	8.7
TCD 271		906	7.42	14.45	0.08	2.5	0.021	1.77	18.8	13.0	3.20	363	8.82	2.17	7.6
TCD 272		1550	20.5	10.15	0.12	1.5	0.040	1.20	14.4	11.6	3.04	607	1.22	1.00	7.5
TCD 273		3700	29.5	7.21	0.15	1.0	0.056	0.54	17.2	7.1	3.59	648	0.93	0.25	6.9
TCD 274		612	8.17	13.95	0.10	2.1	0.014	1.86	24.6	11.4	3.63	293	0.78	1.65	7.8
TCD 275		445	5.39	16.15	0.09	2.5	0.010	2.16	22.9	12.6	3.47	329	0.64	2.06	7.2
TCD 276		234	4.05	17.05	0.10	2.6	0.009	2.26	21.2	12.7	3.71	276	0.36	1.99	6.5
TCD 277		234	4.11	15.15	0.10	2.2	0.007	2.41	22.9	17.2	3.24	247	1.25	2.06	7.2
TCD 278		139.0	3.77	15.55	0.11	2.0	0.007	1.86	20.2	18.6	3.49	258	0.30	2.15	6.2
TCD 279		608	6.45	12.75	0.10	1.9	0.011	1.81	17.4	15.3	3.40	273	0.58	1.86	7.8
TCD 280		474	5.84	14.45	0.09	2.4	0.009	1.83	13.9	14.1	3.16	300	0.66	1.91	7.1
TCD 281		976	7.98	12.20	0.08	2.5	0.019	1.80	10.6	16.0	3.74	360	1.04	1.91	6.6
TCD 282		856	6.47	13.20	0.07	2.6	0.023	1.94	7.0	14.8	2.98	241	3.37	2.13	7.3
TCD 283		835	9.84	14.45	0.08	2.3	0.026	2.13	10.4	15.5	3.39	460	3.96	1.76	6.8
TCD 284		1260	9.17	13.15	0.08	2.2	0.045	2.01	7.5	22.2	3.05	278	9.07	2.06	6.4
TCD 285		1120	9.93	13.00	0.08	2.6	0.057	1.75	6.5	24.3	3.21	288	2.24	1.89	4.8
TCD 286		2470	15.50	11.90	0.12	2.3	0.021	1.06	6.0	29.0	2.81	139	1.60	1.46	5.6
TCD 287		1410	11.00	14.15	0.09	2.7	0.028	1.28	6.2	43.2	3.25	191	1.08	2.12	4.7
TCD 288		2080	14.55	12.05	0.10	2.4	0.051	1.21	6.7	25.2	3.08	253	2.22	1.38	5.4
TCD 289		830	6.90	18.50	0.08	2.8	0.025	2.16	11.2	18.6	3.15	210	0.83	2.22	7.8
TCD 290		4410	20.6	9.16	0.12	1.6	0.092	0.92	9.6	14.7	2.87	270	1.56	0.99	6.8
TCD 291		2990	13.50	11.65	0.11	2.3	0.083	1.38	14.0	21.4	3.31	373	0.91	1.52	6.4



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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
TCD 252		620	4.2	72.2	0.007	1.37	0.66	27.0	1	0.8	226	0.35	<0.05	8.80	0.309	0.17
TCD 253		110	4.9	76.2	0.003	1.29	0.36	30.2	1	0.4	309	0.36	<0.05	9.93	0.414	0.21
TCD 254		180	5.0	82.4	0.004	1.65	0.39	23.7	1	0.3	316	0.35	<0.05	7.55	0.392	0.21
TCD 255		230	5.6	66.1	0.007	2.75	0.36	23.2	2	0.3	305	0.42	<0.05	9.15	0.372	0.13
TCD 256		270	5.3	63.9	0.008	2.43	0.34	23.8	2	0.6	238	0.41	0.05	9.34	0.368	0.11
TCD 257		200	19.5	44.5	0.011	2.96	0.35	21.4	4	0.8	141.5	0.38	0.11	8.08	0.339	0.09
TCD 258		170	72.0	64.3	0.010	3.32	0.37	22.7	4	0.3	217	0.38	0.10	11.50	0.356	0.11
TCD 259		60	141.5	56.2	0.028	8.30	0.89	21.7	10	0.4	180.0	0.36	0.17	13.45	0.400	0.12
TCD 260		60	136.0	83.0	0.008	3.64	0.37	28.9	4	0.4	240	0.38	0.05	10.90	0.351	0.13
TCD 261		590	722	61.2	0.015	3.62	0.59	27.6	4	0.5	206	0.40	0.09	10.30	0.376	0.12
TCD 262		210	63.4	46.5	0.022	7.32	0.60	17.7	8	0.5	214	0.36	0.20	7.28	0.322	0.09
TCD 263		130	16.2	81.8	0.010	3.23	0.78	28.1	3	0.6	329	0.49	0.06	13.75	0.394	0.15
TCD 264		140	19.0	59.4	0.021	6.96	1.34	22.4	7	0.4	222	0.33	0.12	11.75	0.344	0.13
TCD 265		180	28.0	102.0	0.008	3.12	0.43	26.8	3	0.4	274	0.41	<0.05	10.25	0.398	0.17
TCD 266		390	12.1	98.1	0.009	1.79	0.47	27.8	2	0.4	272	0.37	<0.05	8.75	0.383	0.17
TCD 267		190	42.8	76.6	0.018	3.36	0.62	27.1	4	0.5	250	0.37	0.08	11.45	0.383	0.15
TCD 268		240	60.6	47.9	0.088	>10.0	1.12	28.4	16	0.5	144.0	0.38	0.28	33.3	0.436	0.14
TCD 269		510	14.3	104.5	0.006	1.97	0.41	29.9	2	0.5	272	0.38	<0.05	11.50	0.400	0.19
TCD 270		230	4.9	93.6	0.016	5.90	0.75	29.5	6	0.5	190.5	0.39	0.13	23.1	0.418	0.16
TCD 271		280	9.6	90.5	0.014	4.02	0.48	28.2	4	0.4	247	0.38	0.06	10.30	0.369	0.15
TCD 272		190	8.8	61.5	0.013	>10.0	0.97	30.3	11	0.4	114.5	0.36	0.14	38.0	0.397	0.11
TCD 273		270	10.5	26.8	0.030	>10.0	2.00	55.0	24	0.6	30.6	0.33	0.33	130.0	0.410	0.14
TCD 274		490	5.7	94.3	0.008	5.79	0.59	36.1	6	0.5	221	0.41	0.08	82.1	0.413	0.17
TCD 275		370	3.6	112.0	0.003	1.95	0.32	29.7	2	0.5	254	0.41	<0.05	9.50	0.379	0.16
TCD 276		580	2.7	124.5	0.002	1.25	0.24	29.9	1	0.5	257	0.42	<0.05	11.90	0.396	0.19
TCD 277		640	2.8	108.0	0.003	1.26	0.38	29.3	1	0.5	276	0.40	<0.05	10.75	0.388	0.21
TCD 278		570	3.0	76.4	0.002	0.90	0.27	30.0	1	0.4	269	0.38	<0.05	9.42	0.403	0.15
TCD 279		500	6.3	68.7	0.007	3.43	0.37	28.5	3	0.5	260	0.37	0.06	13.80	0.407	0.15
TCD 280		360	3.8	80.4	0.004	2.41	0.33	27.7	3	0.4	257	0.38	<0.05	9.95	0.402	0.15
TCD 281		100	6.3	82.7	0.007	4.53	0.39	29.8	7	0.4	244	0.32	<0.05	15.15	0.341	0.15
TCD 282		50	6.5	97.1	0.008	3.63	0.34	26.6	5	0.4	251	0.37	0.07	13.50	0.349	0.16
TCD 283		70	5.7	120.5	0.016	5.61	0.41	29.2	7	0.4	224	0.32	0.06	10.10	0.371	0.18
TCD 284		110	9.3	99.8	0.011	5.67	0.48	27.0	7	0.4	215	0.32	0.10	10.75	0.377	0.15
TCD 285		120	38.9	92.1	0.012	5.48	0.43	29.8	7	0.5	177.5	0.29	0.12	12.50	0.322	0.15
TCD 286		100	11.1	64.9	0.017	>10.0	1.22	39.1	14	0.4	94.9	0.31	0.16	16.80	0.367	0.21
TCD 287		70	6.4	48.3	0.009	5.99	0.50	27.0	7	0.4	146.5	0.31	0.11	14.30	0.366	0.12
TCD 288		240	10.5	65.1	0.018	9.84	0.82	28.4	12	0.4	121.5	0.31	0.16	16.15	0.350	0.11
TCD 289		270	210	122.0	0.006	3.94	0.52	31.8	5	0.4	229	0.39	0.08	13.50	0.401	0.18
TCD 290		170	10.3	49.5	0.016	>10.0	1.14	41.2	25	0.4	105.0	0.38	0.32	15.85	0.371	0.18
TCD 291		210	5.9	62.9	0.007	9.07	0.62	33.4	11	0.5	152.0	0.31	0.14	12.20	0.329	0.12



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	CRU-QC
		U	V	W	Y	Zn	Zr	Pass2mm
		ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	1	0.1	0.1	2	0.5	0.01
TCD 252		1.7	172	0.8	12.0	38	90.8	
TCD 253		0.8	213	0.5	4.0	24	57.3	
TCD 254		0.9	176	0.5	7.4	28	60.5	
TCD 255		1.1	165	0.5	13.6	46	85.0	
TCD 256		1.3	154	1.2	13.4	34	96.6	
TCD 257		1.7	113	1.4	6.2	148	102.5	
TCD 258		1.2	135	1.1	7.0	356	107.0	
TCD 259		1.2	144	1.5	3.6	393	90.0	
TCD 260		1.0	172	0.7	5.7	308	103.5	
TCD 261		1.3	171	1.7	9.1	444	91.4	
TCD 262		1.1	119	1.7	8.3	171	83.4	77.5
TCD 263		1.5	183	4.2	12.4	61	105.0	
TCD 264		1.2	141	3.8	8.0	48	84.9	
TCD 265		1.1	173	0.8	8.4	36	102.0	
TCD 266		1.0	174	0.5	9.9	30	75.9	
TCD 267		1.0	170	0.8	6.2	52	78.9	
TCD 268		1.9	170	2.6	5.8	56	58.7	
TCD 269		1.3	180	0.8	8.0	34	80.4	
TCD 270		1.5	185	1.4	8.7	25	85.1	
TCD 271		1.3	154	0.9	11.1	30	113.5	
TCD 272		2.4	134	2.8	12.5	25	64.1	
TCD 273		4.9	140	3.5	19.8	16	33.2	
TCD 274		2.7	168	1.0	21.5	15	96.2	
TCD 275		1.3	166	0.7	16.3	17	105.0	
TCD 276		1.6	168	0.5	15.8	14	101.0	
TCD 277		1.8	170	0.8	16.7	19	91.6	
TCD 278		1.4	155	0.5	16.0	23	79.0	
TCD 279		1.4	161	0.7	12.2	32	78.8	
TCD 280		1.2	161	0.5	11.4	19	92.7	
TCD 281		1.2	134	0.5	7.1	17	101.5	
TCD 282		1.3	152	0.4	5.0	42	109.0	
TCD 283		1.1	163	0.6	5.6	14	81.8	
TCD 284		0.9	154	0.4	3.1	24	84.4	
TCD 285		1.0	143	0.5	3.7	166	96.8	
TCD 286		1.3	139	0.8	3.4	5	98.2	
TCD 287		1.1	129	0.5	4.4	11	104.0	
TCD 288		1.3	125	0.8	5.0	21	85.0	
TCD 289		1.2	143	0.4	6.3	238	116.0	
TCD 290		1.1	102	1.2	7.9	11	60.5	
TCD 291		1.1	108	0.7	9.1	21	90.0	



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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA25	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt.	Pass75um	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
		kg	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		0.02	0.01	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
TCD 292		1.67		<0.01	0.05	7.69	4.3	600	1.17	0.06	1.86	0.04	43.2	111.5	129	3.08
TCD 293		1.93		0.01	0.04	7.97	4.9	680	1.36	0.07	1.85	0.02	44.7	103.5	105	3.29
TCD 294		2.19		<0.01	0.14	5.90	5.0	150	0.72	0.48	2.33	0.04	42.8	665	111	1.27
TCD 295		2.09		0.01	0.19	6.49	14.7	150	0.70	0.28	1.98	0.10	14.80	317	111	1.89
TCD 296		1.94		0.02	0.07	7.80	3.7	480	0.93	0.17	2.67	0.08	16.70	135.0	120	2.36
TCD 297		1.77		0.02	0.04	8.79	5.5	640	1.17	0.07	2.41	0.02	31.7	52.6	80	3.13
TCD 298		1.84		0.01	0.04	8.62	5.1	720	1.04	0.05	2.31	0.02	30.2	50.0	84	3.34
TCD 299		1.61		0.01	0.06	8.13	5.5	670	1.17	0.05	2.14	0.08	52.1	82.4	90	2.28
TCD 300		1.76		<0.01	0.16	7.55	5.1	360	1.21	0.13	1.95	0.60	51.0	188.5	78	2.00
TCD 301		1.80		<0.01	0.15	7.66	7.2	340	1.03	0.12	1.85	0.87	36.8	130.5	87	2.59
TCD 302		1.87		<0.01	0.23	6.51	18.5	160	0.78	0.19	1.93	0.30	24.7	332	112	1.78
TCD 303		1.76		<0.01	0.08	7.67	4.7	460	1.03	0.09	1.93	0.24	26.1	136.0	76	1.62
TCD 304		1.86		<0.01	0.04	8.27	6.3	630	1.04	0.06	2.25	0.08	41.8	114.0	75	2.82
TCD 305		1.85		<0.01	0.07	7.71	6.8	260	1.29	0.07	2.19	0.20	29.4	218	78	3.90
TCD 306		1.95		0.01	0.03	8.61	4.8	610	1.27	0.04	2.08	0.03	43.4	84.9	88	3.80
TCD 307		1.80		0.01	0.02	8.26	5.1	810	1.41	0.05	1.97	0.02	52.2	87.4	90	4.49
TCD 308		1.80		<0.01	0.04	8.08	6.5	760	1.47	0.05	1.96	0.07	61.1	106.5	87	4.81
TCD 309		3.46		0.01	0.04	8.03	6.1	840	1.35	0.08	2.12	0.04	51.3	137.0	84	3.81
TCD 310		3.90		0.01	0.02	8.29	4.2	700	1.02	0.04	2.21	0.02	39.3	52.4	78	5.41
TCD 311		3.66		0.01	0.03	8.43	5.8	560	1.49	0.07	1.61	0.04	63.7	81.6	74	6.28
TCD 312		3.52	95.0	0.01	0.05	8.22	6.6	570	1.49	0.07	1.91	0.08	55.6	86.6	69	4.07
TCD 313		3.26		<0.01	0.05	8.04	7.1	530	1.61	0.09	1.58	0.06	70.0	147.0	82	2.83
TCD 314		3.12		0.01	0.03	7.92	6.5	520	1.59	0.05	1.59	0.03	59.8	81.3	74	4.49
TCD 315		3.62		0.01	0.05	7.78	5.1	570	1.73	0.05	1.55	0.04	65.6	87.6	100	4.14
TCD 316		3.53		<0.01	0.04	8.24	4.7	580	1.44	0.06	1.52	0.07	74.1	66.1	86	6.31
TCD 317		3.27		0.01	0.02	8.37	6.7	660	1.42	0.05	1.40	0.03	68.5	55.5	93	7.89
TCD 318		3.68		<0.01	0.02	9.30	5.1	750	1.06	0.03	2.54	0.02	71.4	26.6	77	4.41
TCD 319		3.18		0.01	0.02	8.74	7.5	670	1.40	0.03	1.87	0.02	76.5	31.6	83	3.93
TCD 320		2.77		<0.01	0.04	8.24	7.3	440	1.44	0.08	1.41	0.05	83.7	90.9	75	4.24
TCD 321		3.27		<0.01	0.04	8.56	6.7	530	1.33	0.05	2.05	<0.02	54.6	69.1	97	2.88
TCD 322		3.50		<0.01	0.05	8.56	11.7	600	1.17	0.12	2.20	0.04	36.0	126.5	102	2.02
TCD 323		1.74		<0.01	0.09	8.24	5.7	480	1.29	0.08	1.98	0.09	30.8	82.1	110	4.18



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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
TCD 292		406	4.97	16.65	0.09	2.9	0.011	2.24	21.9	14.1	2.77	290	0.54	2.36	7.0	287
TCD 293		410	4.99	14.75	0.10	3.0	0.012	2.23	22.5	13.7	2.69	326	0.61	2.14	8.2	244
TCD 294		931	13.35	10.45	0.11	2.2	0.039	1.14	21.2	16.3	2.70	415	1.27	1.64	6.3	598
TCD 295		1690	13.15	12.80	0.10	2.2	0.029	1.38	7.6	17.6	3.15	416	1.98	1.51	7.8	1220
TCD 296		576	7.26	16.20	0.08	2.3	0.020	1.82	8.7	18.9	3.19	393	1.23	1.96	7.3	334
TCD 297		195.0	4.60	16.90	0.09	2.2	0.009	2.48	15.9	15.5	2.90	348	0.61	2.14	6.6	114.5
TCD 298		202	4.03	18.25	0.09	2.1	0.007	2.52	14.5	21.7	3.15	269	0.78	2.05	6.5	97.0
TCD 299		376	4.45	13.80	0.12	2.4	0.008	2.05	25.8	14.2	2.15	188	0.47	2.39	7.3	79.8
TCD 300		935	7.46	13.90	0.10	3.0	0.011	1.36	25.1	13.7	2.02	258	0.64	2.82	7.1	211
TCD 301		893	7.18	13.05	0.10	2.9	0.013	1.67	18.6	17.5	2.52	274	0.87	2.45	7.7	234
TCD 302		1730	11.80	11.80	0.10	1.8	0.019	1.33	12.2	12.7	2.38	278	3.07	2.07	6.3	499
TCD 303		810	6.53	13.10	0.08	1.9	0.009	1.90	13.6	14.3	2.06	278	1.18	2.52	4.6	315
TCD 304		486	5.38	16.60	0.11	2.0	0.008	2.05	20.7	16.4	2.67	247	0.89	2.17	6.7	205
TCD 305		696	7.59	16.00	0.10	2.1	0.010	2.02	14.7	17.7	2.81	352	1.01	2.06	7.4	227
TCD 306		374	4.42	17.55	0.10	2.1	0.006	2.33	20.6	18.2	2.80	219	0.59	2.31	7.5	113.5
TCD 307		376	4.55	16.00	0.11	2.3	0.008	1.99	25.0	18.9	2.86	217	0.70	2.06	7.4	69.0
TCD 308		425	5.33	14.25	0.12	2.4	0.010	2.04	28.9	20.6	3.13	248	0.71	1.95	8.2	76.9
TCD 309		546	5.72	12.80	0.11	2.2	0.010	1.56	25.1	17.6	2.46	249	8.04	2.48	7.2	77.1
TCD 310		165.5	4.03	17.65	0.12	2.1	0.010	1.95	18.8	23.2	3.49	383	0.67	1.72	6.7	34.3
TCD 311		261	4.36	17.80	0.12	2.5	0.011	1.89	31.0	31.6	3.17	278	1.86	1.97	4.9	57.4
TCD 312		282	4.13	15.65	0.12	2.3	0.010	1.76	27.3	24.5	2.98	222	1.82	2.10	6.1	54.6
TCD 313		459	5.15	13.35	0.13	2.3	0.013	1.73	34.3	20.8	2.28	194	1.00	2.60	4.2	59.7
TCD 314		144.5	3.52	14.20	0.12	2.1	0.007	1.76	29.3	29.3	2.99	201	2.08	1.89	4.6	46.8
TCD 315		296	4.31	12.95	0.11	2.4	0.007	1.84	31.9	24.1	2.86	192	1.88	1.90	4.8	48.9
TCD 316		373	4.16	14.70	0.12	2.3	0.010	1.93	36.6	26.5	2.88	268	0.92	1.73	4.3	54.5
TCD 317		186.0	3.56	15.35	0.10	2.5	0.010	2.40	33.2	30.6	3.16	203	1.53	1.34	4.4	31.4
TCD 318		108.0	3.55	17.60	0.11	2.1	0.011	1.83	36.4	35.2	3.94	320	0.28	1.58	6.1	31.3
TCD 319		152.0	3.47	16.55	0.10	2.4	0.010	2.13	38.1	33.7	3.31	247	0.98	1.89	5.9	42.7
TCD 320		364	4.18	14.85	0.11	2.5	0.021	2.00	41.5	24.2	2.12	282	3.81	2.18	4.2	57.8
TCD 321		314	3.77	15.50	0.08	2.5	0.011	1.85	27.2	22.3	2.35	221	3.63	2.24	5.4	73.4
TCD 322		626	5.11	14.60	0.08	2.4	0.020	1.74	18.5	18.2	1.97	365	7.00	2.73	6.8	178.0
TCD 323		370	3.89	15.30	0.06	2.7	0.013	1.23	16.0	32.2	2.92	265	9.30	2.10	5.7	128.0



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Brisbane QLD 4053
Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218
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No: 825, Corporate Site No: 23001.

Project: THOMAS CREEK

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CERTIFICATE OF ANALYSIS PH18150724

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
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		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
TCD 292		360	9.2	111.5	0.002	2.43	0.32	28.6	3	0.4	252	0.37	<0.05	11.25	0.347
TCD 293		370	4.6	116.5	0.002	2.39	0.31	29.9	2	0.5	263	0.43	0.05	10.65	0.377
TCD 294		260	8.0	49.0	0.007	9.13	0.45	27.4	9	0.4	172.0	0.33	0.18	11.60	0.358
TCD 295		160	12.5	74.1	0.008	9.77	0.35	35.5	12	0.4	183.0	0.35	0.16	15.85	0.425
TCD 296		310	8.7	92.1	0.004	3.20	0.33	30.8	3	0.4	251	0.41	0.06	14.50	0.431
TCD 297		560	5.9	124.0	0.002	1.17	0.32	25.7	1	0.4	274	0.41	<0.05	9.87	0.414
TCD 298		670	6.6	113.0	0.002	1.17	0.32	26.6	1	0.5	280	0.42	<0.05	9.87	0.411
TCD 299		500	7.2	96.3	0.002	2.35	0.38	28.3	2	0.4	288	0.41	<0.05	11.35	0.375
TCD 300		340	20.6	60.5	0.004	5.22	0.45	28.5	4	0.4	259	0.43	0.07	9.93	0.351
TCD 301		250	25.1	75.8	0.005	4.67	0.72	33.1	4	0.4	271	0.40	0.08	9.65	0.368
TCD 302		270	25.8	60.1	0.015	9.42	0.94	30.9	10	0.4	192.5	0.34	0.12	15.65	0.379
TCD 303		330	12.9	81.2	0.004	4.09	0.31	23.7	4	0.3	281	0.29	0.05	10.60	0.344
TCD 304		540	7.3	96.4	0.003	3.10	0.30	28.2	3	0.4	298	0.37	<0.05	11.85	0.376
TCD 305		360	10.6	92.6	0.005	4.96	0.41	23.8	5	0.4	298	0.36	0.05	13.70	0.350
TCD 306		620	4.3	105.0	0.003	2.36	0.27	27.4	2	0.4	290	0.41	<0.05	10.25	0.387
TCD 307		530	2.8	90.6	0.003	2.51	0.25	27.0	2	0.4	357	0.43	<0.05	10.15	0.379
TCD 308		480	6.6	84.2	0.005	2.76	0.30	24.6	2	0.5	342	0.42	<0.05	8.90	0.388
TCD 309		550	4.6	69.9	0.015	3.32	0.29	26.6	2	0.4	394	0.41	0.05	11.15	0.365
TCD 310		580	3.2	79.3	0.002	1.05	0.20	25.3	1	0.5	301	0.40	<0.05	8.86	0.397
TCD 311		570	3.0	96.0	0.006	2.37	0.30	30.8	1	0.5	263	0.38	<0.05	10.90	0.347
TCD 312		590	6.5	88.9	0.007	2.07	0.33	28.0	1	0.4	244	0.39	<0.05	11.05	0.367
TCD 313		640	4.8	88.5	0.005	3.66	0.30	23.1	2	0.4	220	0.32	<0.05	11.75	0.314
TCD 314		630	2.9	84.4	0.006	1.95	0.31	27.9	1	0.4	216	0.36	<0.05	11.05	0.330
TCD 315		700	4.1	101.5	0.008	2.48	0.28	29.1	1	0.4	210	0.38	<0.05	9.59	0.347
TCD 316		530	6.8	105.0	0.007	2.35	0.32	27.3	1	0.4	220	0.34	<0.05	11.70	0.344
TCD 317		560	4.4	109.0	0.004	1.81	0.38	29.0	1	0.5	223	0.35	<0.05	8.76	0.371
TCD 318		620	3.1	68.9	0.003	0.69	0.28	23.9	1	0.7	308	0.41	<0.05	8.85	0.423
TCD 319		530	3.5	83.9	0.003	1.37	0.35	23.5	1	0.5	251	0.42	<0.05	8.96	0.405
TCD 320		670	4.8	101.0	0.007	2.69	0.53	20.2	2	0.6	216	0.28	0.05	9.94	0.304
TCD 321		500	3.2	80.2	0.008	1.88	0.39	24.7	1	0.6	248	0.39	0.05	10.60	0.382
TCD 322		700	5.4	77.7	0.020	2.63	0.43	25.6	3	0.7	171.0	0.49	0.07	12.15	0.396
TCD 323		890	5.4	63.3	0.013	1.91	0.29	29.1	2	0.6	250	0.41	<0.05	10.75	0.385



Australian Laboratory Services Pty. Ltd.

32 Shand Street

Stafford

Brisbane QLD 4053

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CERTIFICATE OF ANALYSIS PH18150724

Sample Description	Method Analyte Units LOD	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	CRU-QC Pass2mm % 0.01
TCD 292		1.5	124	0.7	10.6	23	111.5	
TCD 293		1.4	136	0.5	14.2	17	127.0	
TCD 294		1.1	112	0.7	11.4	34	83.2	
TCD 295		1.1	155	0.6	6.3	55	79.3	
TCD 296		1.2	155	0.4	7.4	39	93.0	
TCD 297		1.2	153	0.5	11.8	25	82.9	
TCD 298		1.1	148	0.5	12.0	24	79.4	
TCD 299		1.3	155	0.8	14.8	25	88.7	
TCD 300		1.4	170	1.0	15.0	118	109.0	
TCD 301		1.5	187	0.9	11.8	141	104.5	
TCD 302		1.3	142	1.5	9.1	95	68.8	
TCD 303		0.9	140	1.1	7.8	67	89.3	
TCD 304		1.0	165	0.7	11.3	31	77.8	
TCD 305		1.2	135	0.7	11.1	52	79.1	
TCD 306		1.2	180	0.8	14.9	20	78.1	
TCD 307		1.3	177	0.7	16.7	15	85.2	
TCD 308		1.2	195	1.0	19.2	21	89.6	
TCD 309		1.2	197	0.8	15.8	25	82.7	
TCD 310		1.1	211	0.6	12.8	19	75.8	
TCD 311		1.5	237	0.9	16.7	21	90.7	
TCD 312		1.4	239	1.1	16.6	36	85.6	
TCD 313		1.5	152	1.4	18.5	25	85.2	89.7
TCD 314		1.4	220	1.2	17.6	14	76.9	
TCD 315		1.6	231	1.4	18.4	22	85.6	
TCD 316		1.4	219	0.9	20.0	30	86.2	
TCD 317		1.4	233	0.8	18.9	20	95.1	
TCD 318		1.1	226	0.5	16.7	22	81.9	
TCD 319		1.5	204	0.9	21.6	22	89.7	
TCD 320		2.6	123	1.8	20.6	26	97.0	
TCD 321		1.9	207	1.3	16.4	17	91.3	
TCD 322		2.5	220	1.9	12.4	31	91.0	
TCD 323		1.8	276	1.4	10.9	27	99.7	



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CERTIFICATE OF ANALYSIS PH18150724

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

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-AA25 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-AA25	BAG-01	CRU-21	CRU-31
CRU-QC	LEV-01	LOG-22	ME-MS61
PUL-23	PUL-QC	SAM-COR01	SPL-21
SPLIT-D	TRSPEC-20	WEI-21	