



Australian Laboratory Services Pty. Ltd.

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No: 825, Corporate Site No: 23001.

CERTIFICATE PH18134499

Project: THOMAS CREEK

P.O. No.: SSF002

This report is for 86 Drill Core samples submitted to our lab in Perth, WA, Australia
on 7-JUN-2018.

The following have access to data associated with this certificate:

ANDY RUST

Page: 1

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Plus Appendix Pages

Finalized Date: 3-JUL-2018

This copy reported on 5-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
LOG-22	Sample login - Rcd w/o BarCode
SAM-COR01	Sample Core from Boxes - Regular
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 PH18134499

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
TCD095		4.61	99.0	0.01	0.14	9.18	9.4	240	1.69	0.36	1.84	0.03	121.5	17.3	131	0.60
TCD096		4.55		0.01	0.12	8.79	8.7	220	1.52	0.37	1.71	0.02	129.5	50.1	92	0.71
TCD097		4.49		0.01	0.10	8.84	8.9	240	1.47	0.33	1.73	0.02	114.0	46.1	74	0.76
TCD098		7.32		<0.01	0.07	8.26	8.5	200	1.48	0.34	1.56	0.02	93.9	71.5	77	0.68
TCD099		7.16		0.02	0.09	8.40	8.1	990	1.36	0.33	1.52	<0.02	122.5	60.0	143	1.05
TCD100		6.62		<0.01	0.13	9.55	11.9	570	1.48	0.33	1.24	<0.02	148.5	92.2	49	1.88
TCD101		6.45		<0.01	0.05	10.80	8.2	950	1.62	0.12	1.10	<0.02	147.0	44.9	29	3.06
TCD102		7.32		<0.01	0.09	8.28	8.1	540	1.47	0.44	1.35	<0.02	59.8	63.6	69	1.49
TCD103		7.38		<0.01	0.04	7.88	5.5	620	1.43	0.28	1.08	<0.02	67.4	40.4	83	1.60
TCD104		7.87		<0.01	0.05	7.76	6.8	810	1.44	0.41	1.13	<0.02	74.8	54.4	76	1.28
TCD105		7.99		<0.01	0.19	8.43	6.0	720	1.36	0.35	1.14	<0.02	54.5	42.4	67	1.76
TCD106		6.18		<0.01	0.07	7.85	7.2	650	1.33	0.64	1.20	<0.02	59.8	55.7	82	1.53
TCD107		7.29		0.01	0.12	8.81	8.6	510	1.34	0.83	1.23	<0.02	62.1	65.2	105	1.72
TCD108		7.19		0.01	0.13	8.43	7.8	380	1.35	0.63	1.15	0.02	65.5	66.7	95	1.69
TCD109		7.00		0.01	0.13	8.79	8.5	520	1.38	0.74	1.28	0.03	51.1	57.4	90	2.00
TCD110		7.31		0.01	0.11	8.41	11.2	540	1.35	0.68	0.82	0.04	52.3	112.0	82	1.41
TCD111		7.04		0.01	0.12	8.83	12.7	340	1.33	0.67	0.80	<0.02	31.3	120.5	76	0.85
TCD112		7.46		0.01	0.11	8.50	16.7	500	1.45	0.73	0.78	<0.02	52.3	162.0	86	1.52
TCD113		6.07		0.01	0.20	8.57	10.2	550	1.39	0.86	0.45	0.08	37.4	151.0	98	1.25
TCD114		6.61		0.01	0.11	8.44	7.7	1730	1.49	0.43	0.20	0.11	79.5	59.0	66	1.02
TCD115		7.66		0.01	<0.01	8.14	6.2	1870	1.94	0.12	0.27	0.02	100.0	19.8	29	1.26
TCD116		7.13		<0.01	0.01	8.49	6.2	1790	1.77	0.12	0.22	0.02	84.5	28.4	33	1.31
TCD117		7.03		<0.01	0.02	8.34	5.6	1890	1.46	0.15	0.27	<0.02	86.9	20.0	28	1.07
TCD118		6.63		<0.01	0.01	8.49	7.2	2010	1.57	0.16	0.17	0.04	80.4	51.8	30	1.28
TCD119		6.61		<0.01	0.07	8.38	6.9	2060	1.74	0.24	0.26	0.03	70.4	69.6	45	1.38
TCD120		6.79		0.01	0.04	7.96	5.6	1730	2.13	0.14	0.31	<0.02	88.7	19.7	27	1.16
TCD121		6.77		0.01	0.03	8.12	6.2	1630	1.88	0.17	0.21	0.02	95.3	41.6	29	1.23
TCD122		8.12		<0.01	0.02	8.12	5.4	1500	1.92	0.14	0.21	<0.02	93.1	35.1	25	1.21
TCD123		4.77		<0.01	0.02	8.04	5.8	1350	2.12	0.18	0.26	<0.02	109.5	29.6	29	1.06
TCD124		4.08		<0.01	0.01	8.92	5.7	1550	2.37	0.20	0.34	<0.02	87.6	25.7	35	1.27
TCD125		3.71		0.02	0.01	8.30	5.7	1590	2.15	0.20	0.30	<0.02	86.2	35.9	32	1.19
TCD126		3.88		<0.01	0.02	8.37	6.3	1740	2.16	0.23	0.34	<0.02	70.2	26.4	30	1.23
TCD127		3.47		<0.01	0.13	8.39	7.9	1140	0.35	0.35	0.35	<0.02	56.0	90.9	63	1.23
TCD128		2.80		<0.01	0.12	8.04	9.5	430	1.28	0.49	0.36	<0.02	27.4	176.5	95	0.78
TCD129		2.92		0.01	0.18	7.83	11.2	320	1.41	1.10	0.87	0.06	42.9	146.0	97	1.30
TCD130		4.63		0.01	0.09	8.18	7.6	380	1.48	0.32	0.97	<0.02	28.2	72.1	90	1.52
TCD131		4.44		<0.01	0.06	7.88	6.9	410	1.54	0.17	2.76	<0.02	33.7	33.1	101	1.48
TCD132		4.18		0.02	0.03	8.26	6.4	380	1.36	0.14	1.52	<0.02	48.0	43.6	87	1.47
TCD133		3.76		<0.01	0.06	8.01	8.1	390	1.56	0.20	2.01	<0.02	73.4	44.5	85	1.16
TCD134		4.16		<0.01	0.10	8.45	8.7	520	1.45	0.32	1.28	<0.02	97.6	75.0	84	1.23



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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
TCD095		576	3.35	18.15	0.13	3.6	0.102	1.16	60.5	25.9	1.97	440	2.91	2.61	8.7
TCD096		488	3.81	17.95	0.14	3.7	0.050	1.21	67.3	27.7	2.04	423	3.12	3.01	8.1
TCD097		643	4.36	17.15	0.14	3.5	0.058	1.37	60.4	28.5	2.04	460	2.07	3.14	7.7
TCD098		59.2	6.12	17.05	0.11	3.6	0.030	1.17	51.3	28.0	2.07	446	4.89	3.06	7.2
TCD099		679	6.86	17.05	0.14	3.3	0.095	3.36	65.1	33.9	2.57	563	2.13	2.09	6.9
TCD100		58.0	4.63	18.35	0.15	3.0	0.030	2.25	79.3	25.7	1.59	456	1.79	3.93	7.5
TCD101		193.0	3.26	18.15	0.16	2.8	0.031	3.72	80.2	19.8	1.33	419	1.23	4.01	7.5
TCD102		41.6	6.44	16.00	0.10	4.2	0.029	2.02	31.8	25.9	1.98	348	3.92	2.48	7.1
TCD103		37.1	6.54	16.50	0.11	3.5	0.034	2.25	35.2	28.6	2.17	331	1.00	2.08	7.1
TCD104		110.5	6.05	15.35	0.11	4.0	0.032	2.78	38.0	26.2	1.93	321	1.39	2.20	7.4
TCD105		62.4	6.32	15.65	0.10	3.5	0.027	2.60	27.7	22.3	1.88	337	2.12	2.17	7.2
TCD106		83.2	5.57	14.45	0.11	4.0	0.023	2.15	30.7	21.5	1.84	364	1.05	2.19	7.3
TCD107		118.5	5.60	15.65	0.09	4.0	0.028	1.86	31.3	22.2	1.95	503	0.43	2.68	7.5
TCD108		374	6.91	15.50	0.10	3.4	0.033	1.82	34.3	26.6	2.18	546	3.35	2.89	6.9
TCD109		201	6.67	15.80	0.10	4.1	0.026	1.81	26.7	25.3	2.29	744	1.12	2.36	7.1
TCD110		263	5.84	15.75	0.09	3.9	0.037	2.00	28.1	25.6	1.90	608	3.18	3.12	6.8
TCD111		130.5	5.33	14.70	0.07	3.7	0.029	1.51	17.1	17.7	1.52	410	7.48	4.38	6.4
TCD112		133.0	6.45	15.05	0.10	2.8	0.036	1.85	29.0	22.4	1.86	513	5.11	3.37	6.9
TCD113		399	6.26	15.70	0.07	4.0	0.046	1.82	19.9	26.5	1.95	550	5.92	3.48	7.7
TCD114		445	4.14	15.45	0.12	3.9	0.030	5.24	42.3	19.0	1.39	412	1.28	2.26	9.3
TCD115		44.0	3.53	17.05	0.15	3.2	0.030	5.82	52.8	15.2	1.10	355	0.92	1.88	10.7
TCD116		156.5	3.72	16.75	0.14	3.3	0.025	5.70	43.9	15.7	1.20	347	1.46	2.05	10.8
TCD117		117.0	3.54	15.75	0.14	3.4	0.031	5.45	45.1	15.0	1.13	278	2.16	1.86	10.4
TCD118		23.6	3.26	16.30	0.13	3.4	0.029	5.80	42.1	15.5	1.10	243	1.36	1.74	11.0
TCD119		133.0	4.08	15.95	0.14	3.5	0.027	5.36	37.5	18.1	1.35	313	1.85	1.65	10.1
TCD120		74.3	3.52	15.85	0.15	3.3	0.023	5.90	47.6	13.5	1.01	254	1.73	1.91	10.1
TCD121		106.5	3.58	16.75	0.16	3.3	0.032	5.56	50.3	14.1	1.05	249	2.57	1.98	10.4
TCD122		20.1	3.57	16.10	0.18	3.2	0.030	5.51	49.1	12.2	0.98	209	1.89	2.02	9.9
TCD123		9.4	3.86	16.20	0.17	3.0	0.032	5.14	57.9	12.0	0.99	244	2.63	2.14	10.1
TCD124		6.9	4.24	17.25	0.17	3.5	0.034	6.16	45.6	13.7	1.15	320	1.32	2.34	10.9
TCD125		18.6	3.71	16.10	0.16	3.2	0.035	5.28	45.0	13.9	1.05	298	1.92	2.17	10.4
TCD126		19.4	3.32	16.25	0.14	3.2	0.032	5.87	37.0	13.9	1.08	321	2.30	1.97	10.4
TCD127		64.4	4.78	17.40	0.10	3.5	0.041	4.16	29.5	19.7	1.64	430	1.92	2.70	8.9
TCD128		67.3	5.44	15.50	0.11	3.6	0.044	1.68	13.9	24.4	1.91	458	6.02	3.86	7.4
TCD129		230	6.54	14.90	0.07	3.9	0.041	1.37	22.7	19.5	1.56	446	2.94	3.55	5.9
TCD130		22.6	5.02	14.70	0.07	3.4	0.035	1.93	15.6	28.5	2.06	739	1.44	3.36	5.9
TCD131		96.4	6.93	14.20	0.09	2.9	0.088	1.87	18.0	27.3	3.50	952	0.72	2.72	4.8
TCD132		104.5	5.85	14.75	0.08	3.3	0.045	2.09	27.0	26.8	2.41	665	5.48	3.18	5.9
TCD133		136.0	5.95	14.85	0.12	3.3	0.072	1.96	40.8	30.2	2.85	846	2.41	3.07	5.8
TCD134		197.0	5.91	14.95	0.12	3.2	0.046	2.21	54.7	28.7	2.44	597	2.10	3.38	6.6



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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
TCD095		240	2.9	40.5	<0.002	0.06	14.50	41.4	<1	6.5	110.0	0.65	0.07	15.25	0.491	0.16
TCD096		340	2.4	52.6	0.002	0.43	3.30	27.2	1	4.0	122.0	0.61	0.08	11.40	0.448	0.16
TCD097		430	2.5	65.6	<0.002	0.39	2.11	30.1	<1	5.1	112.5	0.60	0.09	10.85	0.412	0.18
TCD098		590	2.3	54.8	0.006	0.97	1.50	24.2	1	3.6	118.0	0.53	0.08	9.84	0.392	0.16
TCD099		560	2.2	123.5	0.003	0.65	2.90	27.9	<1	3.2	150.5	0.48	0.08	10.30	0.402	0.32
TCD100		630	2.7	139.0	0.004	1.17	1.44	18.0	1	5.0	177.0	0.56	0.15	11.00	0.432	0.32
TCD101		560	1.9	239	0.002	0.31	2.69	12.8	<1	5.9	179.0	0.56	0.05	12.05	0.460	0.51
TCD102		520	2.4	117.0	0.003	1.00	3.38	24.1	1	2.2	170.0	0.54	0.14	11.50	0.398	0.26
TCD103		520	2.3	135.5	0.002	0.57	1.59	25.8	<1	2.0	158.5	0.54	0.09	9.94	0.381	0.26
TCD104		560	2.1	134.5	0.002	0.94	1.01	22.1	1	2.1	152.0	0.54	0.12	11.35	0.379	0.28
TCD105		520	2.0	165.0	0.002	0.75	0.67	21.2	1	2.3	186.5	0.52	0.09	9.83	0.398	0.29
TCD106		520	2.8	121.5	0.003	1.32	0.79	23.2	1	1.4	170.5	0.52	0.15	11.10	0.383	0.24
TCD107		580	5.7	122.0	0.002	1.83	0.56	24.9	1	1.1	166.5	0.54	0.17	10.50	0.416	0.23
TCD108		510	4.3	113.5	0.003	1.38	0.58	24.0	1	2.3	160.5	0.52	0.13	10.20	0.401	0.24
TCD109		550	9.9	122.5	<0.002	1.51	0.54	24.8	1	1.5	174.5	0.53	0.12	10.85	0.427	0.22
TCD110		450	4.0	122.0	0.003	2.27	0.77	22.0	1	1.8	145.5	0.53	0.14	9.88	0.387	0.24
TCD111		350	2.0	83.1	0.005	2.02	0.75	21.2	1	3.0	109.0	0.52	0.33	14.20	0.397	0.18
TCD112		550	2.5	113.0	0.003	2.78	0.90	21.3	1	3.8	119.0	0.50	0.22	10.30	0.406	0.24
TCD113		430	9.8	100.0	0.006	2.64	1.09	22.1	1	3.5	102.5	0.58	0.18	11.00	0.435	0.24
TCD114		430	3.7	128.0	0.004	1.14	1.25	15.4	<1	1.8	106.0	0.92	0.09	15.00	0.315	0.48
TCD115		590	1.8	132.0	<0.002	0.07	0.70	8.9	<1	2.0	112.0	1.10	<0.05	16.75	0.229	0.49
TCD116		490	2.0	139.5	0.002	0.14	1.08	9.7	<1	2.4	91.9	1.22	<0.05	17.30	0.241	0.59
TCD117		580	1.8	120.0	<0.002	0.07	0.85	8.8	<1	2.5	84.1	1.14	<0.05	16.95	0.235	0.59
TCD118		530	2.7	149.5	<0.002	0.15	0.98	9.3	<1	2.4	67.0	1.11	<0.05	16.90	0.231	0.65
TCD119		520	3.7	155.0	0.002	0.29	0.80	11.7	<1	2.3	128.0	1.08	<0.05	16.65	0.262	0.54
TCD120		520	2.2	133.0	<0.002	0.06	0.67	8.6	<1	1.9	119.0	1.15	<0.05	17.10	0.225	0.48
TCD121		540	7.4	163.0	0.002	0.13	0.71	8.7	<1	2.5	74.5	1.15	<0.05	16.85	0.224	0.53
TCD122		540	2.1	152.5	<0.002	0.13	0.71	8.4	<1	2.3	67.7	1.10	<0.05	16.15	0.215	0.51
TCD123		560	2.1	142.5	0.002	0.12	0.65	8.5	<1	2.0	80.6	1.13	<0.05	16.95	0.221	0.49
TCD124		620	2.0	207	0.002	0.11	0.69	9.6	<1	2.0	95.0	1.28	<0.05	17.55	0.253	0.54
TCD125		560	1.8	143.5	<0.002	0.13	0.71	8.9	<1	2.3	103.0	1.13	<0.05	16.85	0.230	0.50
TCD126		540	1.8	145.5	<0.002	0.13	0.84	8.9	<1	2.1	145.5	1.11	<0.05	17.10	0.231	0.48
TCD127		500	2.2	154.0	0.002	1.02	0.92	13.9	1	5.6	148.0	0.86	0.11	13.55	0.333	0.33
TCD128		340	2.9	80.4	0.004	1.85	0.73	18.3	1	9.5	118.0	0.55	0.16	10.20	0.399	0.20
TCD129		520	6.0	79.0	0.003	2.48	0.90	22.5	1	3.2	146.5	0.44	0.16	10.30	0.346	0.17
TCD130		250	2.1	123.0	<0.002	0.88	0.53	21.9	1	3.3	167.5	0.45	0.11	10.10	0.354	0.24
TCD131		140	5.5	100.0	<0.002	0.22	0.74	40.2	<1	6.7	216	0.38	<0.05	19.05	0.318	0.22
TCD132		300	2.1	131.0	0.002	0.29	0.61	24.0	<1	4.5	186.0	0.49	<0.05	10.30	0.381	0.26
TCD133		320	2.4	115.0	0.002	0.30	0.81	32.4	1	5.8	192.5	0.45	0.06	10.15	0.348	0.25
TCD134		640	2.3	117.0	0.002	0.72	0.74	27.7	1	5.5	170.5	0.49	0.11	11.40	0.401	0.26



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CERTIFICATE OF ANALYSIS PH18134499

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
TCD095		12.0	201	3.1	30.5	31	134.5	92.4
TCD096		8.1	164	2.6	34.4	27	138.5	
TCD097		8.3	179	2.4	30.5	27	135.0	
TCD098		5.8	243	2.1	28.4	26	138.0	
TCD099		5.8	200	1.3	32.0	35	122.0	
TCD100		6.6	130	2.7	22.8	27	108.0	
TCD101		6.5	102	3.1	26.2	25	103.0	
TCD102		3.9	197	1.6	21.7	30	146.0	
TCD103		3.6	197	1.4	22.0	28	137.5	
TCD104		4.6	158	1.6	24.4	26	152.0	
TCD105		3.9	191	1.2	21.4	28	130.5	
TCD106		3.7	142	1.2	17.9	29	150.5	
TCD107		3.2	126	1.4	16.0	31	153.0	
TCD108		3.6	174	1.2	17.1	33	131.5	
TCD109		3.2	178	1.0	18.4	36	157.5	
TCD110		4.3	99	1.8	13.5	40	148.5	
TCD111		4.1	82	2.5	10.5	25	140.0	
TCD112		4.7	120	2.8	13.5	32	111.5	
TCD113		5.8	142	3.5	12.2	50	149.0	
TCD114		7.2	109	2.1	16.6	72	135.0	
TCD115		8.4	71	1.2	23.1	23	116.5	
TCD116		8.0	75	1.9	21.6	27	113.0	
TCD117		8.0	75	2.2	23.4	24	114.0	
TCD118		7.8	71	2.0	19.2	29	116.5	
TCD119		8.2	82	1.8	17.6	28	119.0	
TCD120		8.4	69	1.2	21.3	19	108.0	
TCD121		8.4	68	1.6	21.4	22	111.0	
TCD122		8.1	67	2.3	19.7	20	108.0	
TCD123		8.4	71	2.0	21.7	18	105.5	
TCD124		9.2	79	2.2	19.8	23	109.5	
TCD125		8.6	72	1.6	22.8	22	110.5	
TCD126		8.3	71	1.2	20.2	23	114.5	
TCD127		6.6	84	3.9	21.9	40	124.5	
TCD128		5.4	97	3.6	20.3	44	128.0	
TCD129		4.7	115	2.5	13.6	40	134.5	
TCD130		4.8	83	1.2	10.1	74	120.0	
TCD131		3.7	179	0.9	27.6	64	104.0	
TCD132		4.5	118	1.0	15.3	56	117.0	
TCD133		6.0	119	1.8	26.4	80	120.0	
TCD134		5.5	108	2.5	20.1	62	112.0	



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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
TCD135		4.01		<0.01	0.05	8.23	8.2	390	1.33	0.35	1.31	<0.02	57.4	73.4	87	1.38
TCD136		3.87		<0.01	0.21	7.79	18.9	390	1.45	0.73	1.22	0.02	58.3	112.5	87	1.64
TCD137		4.21		0.01	0.09	7.79	9.8	300	1.59	0.47	1.47	<0.02	43.2	96.3	81	1.74
TCD138		4.04		<0.01	0.10	8.59	9.0	500	1.63	0.23	1.41	<0.02	63.6	67.3	63	2.22
TCD139		4.36		0.01	0.05	7.36	8.6	1020	1.63	0.17	1.04	0.02	88.2	21.1	123	2.92
TCD140		4.37		0.01	0.06	7.27	8.6	850	2.11	0.30	1.27	<0.02	148.0	71.2	112	1.50
TCD141		4.39		0.01	0.04	7.34	9.3	790	1.91	0.15	0.55	<0.02	102.0	27.0	119	1.74
TCD142		4.02		<0.01	0.05	7.43	6.2	1660	1.93	0.16	0.30	<0.02	208	30.6	37	1.27
TCD143		3.83		<0.01	0.03	7.32	5.9	1380	2.17	0.30	0.21	<0.02	58.8	18.2	21	1.07
TCD144		4.35		0.01	0.03	7.77	6.4	1570	2.27	0.19	0.19	<0.02	77.9	44.8	25	1.15
TCD145		3.82	97.1	<0.01	0.01	7.95	6.2	1520	2.54	0.11	0.22	<0.02	94.5	18.7	24	1.13
TCD146		3.85		0.01	0.15	8.37	8.9	450	1.34	0.12	1.53	<0.02	32.8	24.4	106	3.56
TCD147		4.48		0.02	0.14	7.74	10.1	400	1.41	0.12	2.52	0.03	30.0	27.9	74	5.24
TCD148		4.60		0.02	0.07	7.94	8.6	350	1.34	0.20	2.16	0.02	31.5	34.0	102	3.21
TCD149		4.13		<0.01	0.06	7.78	10.4	430	1.21	0.19	1.89	<0.02	55.1	38.0	119	1.53
TCD150		4.93		0.01	0.08	8.55	15.0	790	1.34	0.61	2.46	<0.02	168.0	99.9	73	3.01
TCD151		4.17		0.02	0.06	8.44	10.3	1100	1.33	0.20	1.97	0.04	114.0	59.0	108	2.47
TCD152		4.26		<0.01	0.03	8.36	7.6	550	1.35	0.12	2.69	<0.02	59.1	37.7	84	3.30
TCD153		4.16		<0.01	0.02	6.21	6.1	360	1.02	0.07	2.20	<0.02	26.7	31.6	66	1.55
TCD154		4.26		<0.01	0.03	7.51	8.9	370	1.36	0.10	2.34	0.02	68.0	59.1	85	3.99
TCD155		3.80		0.01	0.08	7.32	7.7	320	1.37	0.07	2.08	<0.02	67.1	66.4	100	3.83
TCD156		4.26		0.01	0.06	7.71	7.3	410	1.42	0.07	2.39	0.03	46.3	53.2	101	4.30
TCD157		3.87		<0.01	0.02	7.40	9.9	320	1.20	0.06	2.70	0.10	37.9	75.6	98	4.93
TCD158		4.10		0.01	0.08	7.42	8.9	1110	1.25	0.10	2.20	<0.02	17.90	39.6	165	2.03
TCD159		2.42		0.01	0.08	7.92	10.8	500	1.33	0.15	2.16	0.02	42.1	70.0	102	3.48
TCD160		4.68		<0.01	0.03	7.68	8.6	500	1.28	0.08	2.37	<0.02	68.5	84.5	80	4.43
TCD161		3.90		<0.01	0.09	7.49	8.1	970	1.20	0.08	2.22	<0.02	22.8	41.6	143	2.38
TCD162		4.29		<0.01	0.03	7.49	7.0	410	1.23	0.10	2.36	<0.02	113.5	56.1	73	3.73
TCD163		3.67		<0.01	0.06	8.14	10.8	660	1.39	0.12	1.97	0.02	46.9	58.7	92	3.02
TCD164		3.10		0.01	0.07	8.70	11.7	960	1.16	0.19	1.10	0.02	97.4	82.0	140	1.49
TCD165		3.67		<0.01	0.05	8.87	8.5	1570	1.10	0.12	1.03	<0.02	87.7	34.5	130	1.54
TCD166		3.76		0.01	0.07	8.94	14.4	490	1.38	0.22	1.69	<0.02	71.4	68.5	111	1.94
TCD167		2.81		0.03	0.09	8.18	16.6	420	1.21	0.23	1.75	<0.02	81.7	65.8	109	2.18
TCD168		3.89		0.02	0.03	8.47	10.8	430	1.51	0.19	1.70	<0.02	69.1	36.7	111	3.05
TCD169		4.15		0.01	0.09	8.54	13.9	430	1.39	0.47	1.29	0.02	82.1	100.5	110	1.40
TCD170		4.29		0.02	0.09	8.38	15.4	300	1.25	0.41	1.50	<0.02	130.5	102.0	111	0.73
TCD171		4.03		0.01	0.10	8.59	16.4	320	1.28	0.55	1.61	0.03	83.9	120.0	90	1.52
TCD172		3.50		0.01	0.07	8.72	10.6	400	1.19	0.14	2.21	<0.02	54.1	46.7	71	3.26
TCD173		4.25		0.01	0.08	8.37	12.9	400	1.43	0.44	1.63	<0.02	101.5	75.4	115	1.93
TCD174		3.98		0.03	0.20	8.53	12.6	430	1.34	0.33	1.56	0.05	85.5	87.1	109	1.26



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CERTIFICATE OF ANALYSIS PH18134499

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
TCD135		124.0	5.89	14.55	0.12	3.3	0.041	1.92	32.0	28.1	2.36	621	1.88	3.21	6.6
TCD136		58.7	7.27	14.50	0.10	3.2	0.035	1.80	32.7	28.6	2.50	590	2.84	2.89	6.3
TCD137		139.0	6.92	14.40	0.08	3.4	0.033	1.65	24.4	28.6	2.29	705	5.88	2.95	6.1
TCD138		64.2	6.31	15.70	0.10	3.3	0.025	2.31	36.3	34.3	2.33	775	2.09	2.77	6.5
TCD139		410	6.21	15.45	0.14	5.4	0.104	3.99	44.4	53.1	2.70	775	1.60	1.71	9.2
TCD140		256	7.00	14.75	0.21	4.0	0.128	3.05	78.4	41.7	3.10	936	0.93	2.37	8.1
TCD141		377	6.42	16.20	0.15	5.5	0.091	3.15	52.7	52.8	2.84	1020	2.05	1.81	9.1
TCD142		132.0	3.80	15.70	0.22	3.6	0.035	4.19	113.0	18.1	1.16	390	1.98	1.40	9.5
TCD143		135.0	3.06	14.95	0.12	3.2	0.042	4.26	32.9	10.8	0.81	255	3.68	1.76	10.4
TCD144		59.8	3.35	15.95	0.13	3.2	0.037	4.29	42.4	11.1	0.85	331	3.37	1.76	11.0
TCD145		25.8	3.31	16.30	0.16	3.1	0.027	4.53	51.2	11.3	0.88	315	2.07	1.94	10.6
TCD146		48.0	6.97	16.30	0.11	3.3	0.034	2.42	17.9	38.7	2.89	811	1.99	2.03	6.0
TCD147		457	7.80	16.20	0.09	3.0	0.031	1.69	14.9	42.6	3.23	747	1.19	1.50	5.3
TCD148		404	6.65	15.95	0.09	3.3	0.033	1.68	16.4	35.7	2.76	703	2.91	2.06	6.2
TCD149		266	6.14	16.55	0.10	3.0	0.030	1.70	30.1	31.9	2.27	577	5.89	2.45	6.7
TCD150		404	6.91	17.40	0.17	2.7	0.024	2.47	100.5	35.2	2.47	704	2.54	1.69	5.9
TCD151		338	7.07	16.20	0.13	3.2	0.021	3.04	67.3	27.5	2.28	585	6.57	1.68	5.9
TCD152		61.5	8.65	16.85	0.10	3.1	0.020	1.83	34.3	37.2	3.04	609	3.18	1.64	5.7
TCD153		22.3	6.67	11.70	0.06	2.1	0.021	1.61	14.5	24.1	2.34	404	1.66	1.23	4.2
TCD154		60.2	9.15	16.35	0.10	3.0	0.024	1.88	39.4	36.8	3.19	382	1.72	1.33	5.3
TCD155		198.5	9.28	16.60	0.10	2.8	0.022	1.48	36.8	47.4	3.86	391	2.48	1.16	4.7
TCD156		479	9.24	16.15	0.09	2.7	0.030	1.79	25.0	44.7	4.08	427	1.63	1.33	5.0
TCD157		100.5	8.16	14.75	0.08	2.6	0.019	1.57	19.9	42.9	4.00	462	1.00	1.33	4.8
TCD158		355	7.75	15.40	0.09	4.2	0.074	3.78	8.3	40.1	3.43	664	0.34	1.21	7.6
TCD159		544	7.83	16.65	0.10	3.3	0.032	2.03	22.5	36.3	3.42	513	0.60	1.32	7.0
TCD160		64.7	8.46	16.35	0.11	2.9	0.021	2.57	37.4	37.8	3.51	504	0.83	1.31	5.9
TCD161		363	8.26	15.15	0.09	3.4	0.047	3.72	12.0	31.5	3.23	692	0.47	1.01	6.0
TCD162		125.0	9.20	16.70	0.12	3.1	0.022	2.04	61.4	32.6	2.96	404	2.62	1.30	5.1
TCD163		227	8.13	17.85	0.09	3.4	0.028	2.37	26.3	32.0	2.90	544	3.89	1.82	6.0
TCD164		188.0	6.29	16.90	0.13	3.7	0.040	3.06	57.0	24.2	2.33	748	8.72	2.85	6.5
TCD165		347	4.33	14.75	0.16	4.0	0.028	4.36	50.6	14.9	1.60	469	5.92	2.14	6.8
TCD166		156.0	6.04	16.75	0.12	3.7	0.036	2.27	40.3	29.3	2.40	736	5.19	2.99	6.4
TCD167		794	6.44	15.65	0.14	3.2	0.039	1.89	44.7	35.8	3.05	874	4.10	2.44	5.9
TCD168		151.0	5.23	16.00	0.14	3.7	0.028	2.23	38.4	26.7	2.36	583	3.49	2.23	6.9
TCD169		387	6.95	13.75	0.12	3.5	0.032	2.09	43.3	19.3	1.42	420	4.70	3.50	5.7
TCD170		384	6.46	12.30	0.20	3.3	0.035	1.72	73.5	13.0	1.03	304	4.86	4.05	5.9
TCD171		340	7.66	13.35	0.17	3.4	0.033	1.56	45.4	17.2	1.41	403	3.38	3.83	5.9
TCD172		300	5.77	16.45	0.11	3.0	0.028	1.90	29.0	30.1	2.58	591	1.65	2.46	6.1
TCD173		281	6.32	14.70	0.16	3.4	0.034	1.96	54.4	19.8	1.52	415	2.70	3.03	6.3
TCD174		820	6.08	14.55	0.14	3.4	0.043	1.88	47.1	13.1	1.03	285	7.28	3.92	7.4



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CERTIFICATE OF ANALYSIS PH18134499

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
TCD135		360	3.8	122.0	0.002	0.60	0.64	26.8	1	4.3	180.0	0.49	0.09	9.30	0.409	0.26
TCD136		660	2.7	119.0	0.004	1.48	0.63	26.4	<1	5.6	159.0	0.45	0.27	9.75	0.388	0.26
TCD137		480	3.3	122.5	0.004	0.85	0.65	24.4	1	3.6	165.5	0.45	0.11	9.00	0.359	0.24
TCD138		460	7.8	152.5	0.003	0.49	0.64	22.1	<1	3.2	185.0	0.45	0.07	9.90	0.382	0.29
TCD139		490	2.5	176.0	<0.002	0.08	0.91	19.8	<1	3.6	129.5	0.73	<0.05	14.75	0.315	0.53
TCD140		320	5.5	131.0	<0.002	0.39	0.97	35.8	<1	10.6	130.5	0.58	0.06	12.70	0.298	0.31
TCD141		510	1.9	156.0	<0.002	0.09	0.94	20.4	<1	3.6	107.5	0.67	<0.05	14.70	0.312	0.38
TCD142		490	2.7	126.0	<0.002	0.16	0.72	10.6	<1	2.4	97.3	0.97	<0.05	16.35	0.218	0.54
TCD143		470	1.9	137.0	<0.002	0.08	0.66	7.6	<1	2.3	63.1	1.07	<0.05	16.40	0.193	0.55
TCD144		520	2.0	127.5	<0.002	0.15	0.61	8.0	<1	2.6	61.9	1.12	<0.05	17.40	0.211	0.55
TCD145		490	1.7	121.0	0.002	0.09	0.59	8.3	<1	2.6	87.7	1.04	<0.05	16.80	0.210	0.47
TCD146		580	3.9	152.0	<0.002	0.20	0.63	22.0	<1	2.0	197.0	0.44	<0.05	11.45	0.352	0.24
TCD147		420	3.0	129.0	<0.002	0.17	0.54	25.5	<1	1.6	231	0.37	<0.05	9.57	0.294	0.21
TCD148		720	3.5	114.5	0.003	0.36	0.51	26.2	<1	1.8	180.0	0.42	0.05	9.65	0.322	0.17
TCD149		780	2.6	108.0	<0.002	0.36	0.67	23.3	<1	2.2	173.0	0.42	<0.05	8.87	0.333	0.19
TCD150		860	4.2	137.5	0.004	0.98	0.72	27.1	1	3.3	245	0.40	0.24	11.50	0.315	0.19
TCD151		460	2.5	133.0	0.003	0.54	0.55	19.7	<1	2.8	224	0.43	0.08	10.40	0.352	0.20
TCD152		480	2.4	110.5	0.002	0.25	0.45	26.1	<1	1.7	250	0.41	<0.05	10.55	0.315	0.18
TCD153		340	2.1	113.0	0.002	0.24	0.38	22.7	<1	1.6	165.5	0.31	<0.05	7.14	0.241	0.18
TCD154		840	2.0	127.0	<0.002	0.56	0.47	28.5	1	1.6	187.5	0.39	0.07	9.97	0.299	0.18
TCD155		800	1.8	90.7	0.002	0.42	0.45	28.3	<1	1.8	156.5	0.32	0.07	8.79	0.273	0.15
TCD156		820	2.4	108.5	0.002	0.46	0.44	30.6	1	2.0	183.0	0.35	<0.05	8.32	0.287	0.17
TCD157		1640	2.2	114.5	0.002	0.53	0.50	30.0	1	2.0	188.5	0.34	0.05	10.35	0.267	0.18
TCD158		670	2.4	163.0	<0.002	0.18	0.69	27.1	<1	5.3	191.0	0.52	<0.05	11.80	0.336	0.26
TCD159		1430	2.6	136.0	0.002	0.58	0.64	27.0	1	2.4	177.5	0.46	0.05	12.25	0.342	0.21
TCD160		970	3.8	176.0	<0.002	0.52	0.54	26.7	1	2.1	197.5	0.42	<0.05	10.05	0.306	0.26
TCD161		560	4.6	157.0	<0.002	0.20	0.62	26.7	<1	2.6	185.0	0.46	<0.05	9.81	0.323	0.24
TCD162		470	4.1	146.5	0.002	0.32	0.42	25.4	1	1.6	196.0	0.37	<0.05	9.09	0.302	0.22
TCD163		540	4.0	147.5	0.002	0.42	0.52	25.6	<1	2.4	184.0	0.45	<0.05	10.35	0.342	0.21
TCD164		760	2.7	141.0	0.007	0.84	0.60	23.2	<1	4.4	146.0	0.50	0.08	12.15	0.383	0.21
TCD165		630	2.7	178.0	0.003	0.35	0.66	22.8	1	3.4	150.5	0.49	<0.05	11.10	0.414	0.28
TCD166		1780	2.8	144.0	0.004	0.98	0.76	25.4	1	2.7	166.5	0.48	0.10	14.50	0.397	0.20
TCD167		2240	2.8	116.0	0.004	0.91	0.74	26.5	1	2.1	136.5	0.41	0.08	14.75	0.362	0.18
TCD168		520	2.6	156.0	0.003	0.70	0.57	25.3	1	1.6	159.0	0.47	0.06	10.40	0.388	0.23
TCD169		910	2.8	127.0	0.007	2.13	0.72	18.8	1	1.4	164.5	0.41	0.18	11.75	0.324	0.21
TCD170		1900	2.9	91.1	0.007	2.36	0.69	16.9	2	1.6	142.0	0.41	0.20	11.75	0.322	0.17
TCD171		1240	2.9	96.4	0.006	2.81	0.54	16.5	2	1.3	159.0	0.42	0.25	13.65	0.340	0.16
TCD172		800	2.5	133.5	0.002	0.78	0.42	24.1	1	1.4	200	0.44	0.05	12.05	0.384	0.20
TCD173		810	2.8	130.5	0.004	1.86	0.55	23.5	1	1.2	169.0	0.42	0.13	9.82	0.368	0.21
TCD174		1000	2.8	105.0	0.008	1.97	0.65	18.3	2	2.6	158.5	0.48	0.16	11.45	0.362	0.16



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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 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5	% 0.01
TCD135		4.3	111	1.5	16.0	59	117.5	
TCD136		4.6	119	1.3	16.5	64	116.5	
TCD137		5.4	112	1.1	14.6	67	120.0	
TCD138		4.5	135	1.2	13.1	70	126.0	
TCD139		5.4	134	0.8	24.8	62	197.5	
TCD140		5.7	129	4.4	34.8	78	142.0	
TCD141		5.6	135	1.1	26.7	106	197.5	
TCD142		7.3	72	1.6	23.4	39	119.0	
TCD143		8.0	57	1.6	15.6	23	97.6	
TCD144		7.9	60	1.6	17.2	25	102.5	
TCD145		7.4	62	1.3	21.2	26	99.5	
TCD146		3.5	181	1.3	12.0	78	117.0	65.7
TCD147		2.9	247	0.5	19.0	47	102.5	
TCD148		6.4	205	0.8	9.8	53	113.5	
TCD149		5.9	181	0.9	11.4	42	107.5	
TCD150		5.8	162	0.9	13.4	43	95.4	
TCD151		3.7	165	0.7	13.4	48	115.0	
TCD152		2.7	248	0.5	12.4	41	106.5	
TCD153		2.0	172	0.5	11.5	27	76.4	
TCD154		2.6	213	0.6	11.9	27	103.5	
TCD155		2.5	210	0.4	10.0	31	94.7	
TCD156		4.0	205	0.4	12.3	36	103.0	
TCD157		2.3	159	0.3	13.1	33	93.1	
TCD158		9.5	180	0.9	23.9	48	155.0	
TCD159		4.8	207	0.9	13.7	48	115.0	
TCD160		3.6	236	0.4	12.2	46	100.5	
TCD161		5.8	220	0.7	14.0	52	118.5	
TCD162		4.8	287	0.5	9.1	38	106.0	
TCD163		5.4	231	0.8	12.4	55	126.0	
TCD164		8.3	135	1.3	20.7	87	137.0	
TCD165		8.4	143	1.2	23.5	42	151.5	
TCD166		6.1	132	1.8	16.7	95	142.0	
TCD167		4.4	135	1.4	16.2	120	124.0	
TCD168		3.0	172	0.4	14.7	67	142.0	
TCD169		4.1	136	1.6	14.5	48	132.5	
TCD170		7.0	143	2.3	21.4	28	126.0	
TCD171		3.8	147	1.4	15.8	39	126.0	
TCD172		3.8	172	0.8	13.4	61	109.0	
TCD173		3.1	149	1.1	17.5	35	134.0	
TCD174		4.0	145	2.1	17.6	20	133.0	



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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
		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
TCD175		164.0	7.00	12.85	0.16	3.0	0.027	4.23	55.6	14.4	1.14	368	4.18	2.49	5.8	450
TCD176		343	7.50	13.85	0.25	2.7	0.037	2.37	105.0	13.2	1.09	353	5.89	3.22	6.5	466
TCD177		210	6.51	11.70	0.17	3.0	0.031	5.22	39.8	9.2	0.69	262	4.64	2.33	7.6	411
TCD178		367	5.88	12.65	0.19	2.9	0.033	5.20	67.3	9.6	0.78	268	6.14	2.05	7.4	326
TCD179		393	5.56	15.25	0.20	2.7	0.025	4.73	87.8	23.2	1.97	433	3.11	1.65	6.1	215
TCD180		367	5.41	11.65	0.17	2.5	0.024	5.46	52.6	7.9	0.60	201	2.36	2.45	6.2	295



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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
TCD175		4.3	142	1.5	18.0	24	118.5	
TCD176		7.3	150	2.3	25.4	19	99.7	
TCD177		8.0	136	2.0	25.3	13	114.5	
TCD178		8.7	131	2.1	31.0	20	113.5	
TCD179		7.4	182	1.6	28.9	30	101.0	
TCD180		6.2	122	1.8	20.1	11	97.9	



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CERTIFICATE OF ANALYSIS PH18134499

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	