

MINERALS TEST REPORT

CLIENT

TODD RIVER METALS PTY LTD

PO Box 2019
SUBIACO, W.A. 6904
AUSTRALIA

JOB INFORMATION

JOB CODE : 2039.0/1806654
NO. SAMPLES : 42
NO. ELEMENTS : 49
CLIENT ORDER NO. : Q180228 (Job 1 of 1)
SAMPLE SUBMISSION NO. : 18SY01
PROJECT : MH
SAMPLE TYPE : Rock Chip
DATE RECEIVED : 14/05/2018
DATE REPORTED : 05/06/2018
DATE PRINTED : 05/06/2018

REPORT NOTES

TESTED BY

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SIGNIFICANT FIGURES

It is common practice to report data derived from analytical instrumentation to a maximum of two or three significant figures. Some data reported herein may show more figures than this. The reporting of more than two or three figures in no way implies that figures beyond the least significant digit have significance.

For more information on the uncertainty on individual reported values, please contact the laboratory.

SAMPLE STORAGE

All solid samples (assay pulps, bulk pulps and residues will be stored for 60 days without charge. Following this samples will be stored at a daily rate until clients written advice regarding return, collection or disposal is received. If storage information is not supplied on the submission, or arranged with the laboratory in writing the default will be to store the samples with the applicable charges. Storage is charged at \$4.00 per m3 per day, expenses related to the return or disposal of samples will be charged at cost. Current disposal cost is charged at \$150.00 per m3.

Samples received as liquids, waters or solutions will be held for 60 days free of charge then disposed of, unless written advice for return or collection is received.

LEGEND	X	= Less than Detection Limit	NA	= Not Analysed
	SNR	= Sample Not Received	UA	= Unable to Assay
	*	= Result Checked	>	= Value beyond Limit of Method
	DTF	= Result still to come	+	= Extra Sample Received Not Listed
	IS	= Insufficient Sample for Analysis		



ELEMENTS	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.005	0.05	50	0.5	0.1	0.05	0.01	50	0.02	0.01
DIGEST	FA25/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	MS	MS	MS	MS	MS	MS	MS	MS	MS
SAMPLE NUMBERS										
0001 S1801	0.087	101.50	1836	2.8	76.3	0.36	464.68	1.09%	35.98	1.90
0002 S1802	0.016	9.61	3.43%	1.5	1043.1	1.06	55.26	2046	10.06	20.43
0003 S1803	0.046	4.16	7149	3.7	125.5	2.36	40.45	2651	3.86	13.12
0004 S1804	0.033	31.37	2.85%	1.3	569.1	1.83	208.81	6987	9.83	12.97
0005 S1805	0.028	12.26	7925	2.2	463.8	2.27	78.20	3.04%	60.85	25.38
0006 S1806	0.019	26.54	4.35%	2.3	315.7	4.52	23.55	3.66%	18.52	21.26
0007 S1807	0.019	20.07	5172	1.3	102.5	4.98	70.93	1.94%	10.77	10.04
0008 S1808	0.019	14.89	3.34%	2.2	507.8	1.93	54.93	3.98%	5.10	8.12
0009 S1809	0.019	27.77	4739	3.2	131.6	0.81	136.91	3.58%	5.07	5.21
0010 S1810	0.006	1.93	4.28%	0.5	669.9	2.23	11.57	4.12%	2.41	35.85
0011 S1811	0.020	3.62	3988	1.7	326.8	1.40	20.09	7.10%	17.84	6.93
0012 S1812	0.025	36.91	2655	2.2	17.9	0.45	137.66	1.40%	4.91	3.68
0013 S1813	0.123	14.30	1.21%	5.0	57.8	1.25	77.94	4.75%	20.58	16.36
0014 S1814	0.032	14.41	4701	1.6	568.9	1.05	28.80	4.99%	65.53	12.78
0015 S1815	X	3.42	3.33%	0.7	750.4	0.77	9.74	8.87%	21.04	35.53
0016 S1816	X	0.21	4.65%	0.8	279.9	2.99	3.85	9.20%	0.96	61.10
0017 S1817	0.021	12.14	2.73%	0.9	782.6	0.81	31.33	8.26%	28.10	30.03
0018 S1818	0.023	17.72	2.62%	0.8	591.4	1.60	68.53	9295	3.73	16.15
0019 S1819	0.016	0.23	5.70%	0.9	422.1	1.99	57.21	5.69%	0.92	50.76
0020 S1820	0.054	25.72	7130	1.0	138.9	0.82	75.84	9.06%	121.14	10.77
0021 S1821	0.162	101.17	2.54%	1.4	334.4	1.62	209.75	3.99%	9.24	36.81
0022 S1822	0.029	21.85	4.40%	2.4	418.3	2.60	47.26	6.52%	45.58	15.36
0023 S1823	0.063	94.47	3.25%	0.7	109.0	2.63	182.86	5.85%	39.27	11.76
0024 S1824	0.037	14.75	2.00%	0.9	232.8	2.04	35.20	10.91%	128.45	17.18
0025 S1825	0.335	0.69	4.98%	4.0	10.8	1.19	0.61	1210	0.80	0.81
0026 S1826	0.062	58.39	4.08%	0.6	229.9	2.86	104.93	7.76%	7.59	30.98
0027 S1827	0.015	11.96	7.72%	0.7	335.0	5.51	27.68	8.10%	60.59	45.45
0028 S1828	0.046	52.86	6047	1.0	54.8	1.34	123.01	6.91%	110.18	11.54
0029 S1829	0.053	30.68	1.26%	1.5	122.4	1.24	56.34	5.04%	29.95	14.94
0030 S1830	X	0.36	7.31%	0.5	339.7	2.52	4.99	4.21%	0.71	42.08
0031 S1831	0.104	61.08	8809	0.7	20.4	1.34	93.48	7.64%	6.08	6.75
0032 S1832	0.183	148.82	1.53%	0.8	344.4	1.95	328.41	6.75%	19.37	10.25
0033 S1833	0.010	0.67	5.12%	0.7	256.0	3.71	2.88	7.52%	0.33	60.14
0034 S1834	0.008	1.00	6.31%	1.7	1420.9	1.03	8.31	1.02%	0.55	91.23
0035 S1835	X	0.56	4.85%	0.7	161.2	3.43	3.64	8.77%	0.27	53.69
0036 S1836	0.016	0.49	6.25%	0.6	749.7	1.37	5.11	3.33%	1.04	80.43
0037 S1837	0.028	18.23	5.20%	1.0	909.7	1.08	93.31	9488	4.49	47.62
0038 S1838	0.012	7.70	3.77%	0.8	1074.0	2.47	26.89	1.87%	2.36	30.14
0039 S1839	0.010	7.42	4.39%	0.9	434.4	2.39	23.29	6.18%	10.27	40.25
0040 S1840	0.010	3.40	5.36%	0.7	591.5	3.50	11.51	2.28%	9.85	53.16



ELEMENTS	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K
UNITS	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.1	1	0.05	0.5	0.01	0.05	0.1	0.05	0.01	20
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
SAMPLE NUMBERS										
0001 S1801	4.9	3	0.08	759.2	3.29	1.52	2.4	0.10	2.86	170
0002 S1802	17.6	9	0.86	678.3	1.99	7.93	2.0	0.94	2.12	2.24%
0003 S1803	9.3	10	0.14	624.3	2.25	3.52	1.2	0.46	0.76	410
0004 S1804	6.2	10	0.53	381.9	2.57	5.52	1.5	0.61	1.48	1.17%
0005 S1805	14.7	8	0.29	498.8	3.53	4.03	2.6	0.21	2.27	1629
0006 S1806	9.2	24	0.61	2043.2	3.03	11.07	1.4	1.08	0.53	1.12%
0007 S1807	6.0	8	0.11	299.6	2.10	3.29	1.6	0.16	0.75	575
0008 S1808	9.8	5	0.83	892.2	2.87	7.84	2.9	1.57	2.19	1.04%
0009 S1809	8.5	4	0.08	349.7	3.63	2.58	3.0	0.10	1.24	496
0010 S1810	14.2	46	2.81	433.3	3.74	12.98	2.0	1.50	0.62	1.97%
0011 S1811	7.4	4	0.11	225.8	2.59	2.53	3.1	0.08	0.46	410
0012 S1812	7.8	5	0.12	471.0	2.67	1.86	2.4	0.06	1.75	250
0013 S1813	8.3	5	0.22	1038.4	3.45	6.03	2.6	0.38	0.31	1081
0014 S1814	14.7	6	0.12	401.5	1.53	2.79	1.8	0.20	0.48	372
0015 S1815	5.9	17	1.24	71.0	1.99	9.29	1.4	1.50	0.19	1.66%
0016 S1816	18.0	26	0.40	10.6	5.46	13.37	2.3	1.81	0.11	4564
0017 S1817	7.6	16	1.25	667.2	2.25	7.57	1.8	1.10	0.19	1.57%
0018 S1818	6.0	12	0.79	137.3	2.28	6.45	1.5	1.15	0.79	8629
0019 S1819	4.7	44	0.37	15.6	4.96	18.16	3.9	1.46	0.54	5549
0020 S1820	14.9	5	0.12	2328.2	2.38	4.51	2.3	0.18	1.94	577
0021 S1821	13.8	26	1.40	3374.4	3.16	7.76	3.0	0.92	0.32	8658
0022 S1822	11.4	18	1.30	3121.5	3.46	11.10	2.4	0.65	0.35	1.12%
0023 S1823	11.7	8	0.37	2339.2	3.17	10.09	2.3	0.44	0.56	6529
0024 S1824	10.8	10	0.19	1594.1	3.57	7.77	2.1	0.50	0.77	1820
0025 S1825	0.9	16	32.66	199.3	0.21	13.82	1.9	0.77	0.01	4.54%
0026 S1826	11.2	11	0.51	1924.5	3.23	12.64	2.2	0.46	0.81	5477
0027 S1827	7.7	11	1.36	414.7	3.03	19.80	1.6	2.11	0.13	1.37%
0028 S1828	12.4	4	0.10	3107.3	2.54	4.39	2.4	0.13	0.97	434
0029 S1829	10.9	7	0.18	2711.0	2.97	6.07	2.5	0.36	0.40	970
0030 S1830	2.7	31	0.55	16.4	2.49	20.83	2.3	1.46	0.13	5568
0031 S1831	9.3	5	0.15	3817.2	3.21	4.70	3.2	0.20	0.34	883
0032 S1832	9.3	4	0.23	3367.6	2.47	5.89	2.5	0.31	0.50	1806
0033 S1833	16.2	17	0.53	17.7	4.77	14.45	2.1	1.99	0.07	4870
0034 S1834	12.5	53	1.57	288.3	5.48	16.25	1.6	2.12	0.07	3.63%
0035 S1835	19.0	15	0.57	15.4	4.93	12.47	1.5	1.83	0.06	5930
0036 S1836	13.8	50	2.79	82.1	4.21	16.42	2.1	1.43	0.40	2.22%
0037 S1837	9.3	36	1.57	273.6	3.43	15.00	1.4	2.44	2.20	2.43%
0038 S1838	9.2	32	1.92	459.0	3.39	10.27	2.2	1.75	1.11	2.05%
0039 S1839	11.9	23	0.19	559.4	4.19	15.69	2.9	0.71	3.32	4038
0040 S1840	12.2	45	1.43	239.5	5.08	15.61	2.7	1.95	0.89	1.59%



ELEMENTS	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.01	0.1	20	1	0.1	20	0.05	0.5	50	0.5
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
SAMPLE NUMBERS										
0001 S1801	0.57	0.8	14.73%	4066	4.6	164	0.48	5.0	413	>1.00%
0002 S1802	9.47	2.0	10.91%	5328	3.1	5742	2.89	11.1	652	>1.00%
0003 S1803	4.12	1.3	9.00%	9743	7.2	87	0.92	4.0	3561	>1.00%
0004 S1804	6.97	1.5	8.07%	4130	2.4	6454	1.90	6.1	2001	>1.00%
0005 S1805	11.81	4.5	11.84%	1.14%	6.8	523	1.78	7.9	1865	>1.00%
0006 S1806	9.05	4.1	7.10%	7104	2.5	778	1.98	8.4	2093	5714.1
0007 S1807	3.79	4.8	5.69%	6947	1.8	371	1.30	4.8	1162	>1.00%
0008 S1808	3.21	7.0	12.85%	6782	3.3	1290	1.16	4.2	654	>1.00%
0009 S1809	1.38	0.9	14.52%	6732	16.6	600	1.02	5.4	512	>1.00%
0010 S1810	15.33	7.3	7.31%	7592	2.7	2087	9.94	18.4	1815	6844.9
0011 S1811	3.23	1.3	12.80%	9262	2.0	466	0.79	6.1	2300	>1.00%
0012 S1812	1.37	1.0	11.04%	6672	3.7	230	0.59	4.3	559	>1.00%
0013 S1813	6.88	2.1	16.81%	1.02%	2.2	882	2.44	10.0	2175	>1.00%
0014 S1814	6.24	5.9	11.74%	9131	3.6	127	0.68	5.8	1169	>1.00%
0015 S1815	17.64	6.1	8.25%	5661	0.6	3539	5.93	8.7	577	3628.7
0016 S1816	31.77	2.3	7.97%	1.03%	0.3	3912	10.27	11.1	530	206.1
0017 S1817	15.90	5.6	10.34%	7174	0.8	1966	4.55	10.0	1136	9004.4
0018 S1818	7.96	2.6	4.14%	3445	0.8	5289	4.78	7.3	496	>1.00%
0019 S1819	23.97	1.4	4037	2211	0.3	4485	7.09	6.6	282	169.9
0020 S1820	5.71	7.4	11.47%	7510	3.2	548	1.40	11.7	567	>1.00%
0021 S1821	18.06	16.0	9.08%	6351	3.4	2810	4.97	19.6	464	>1.00%
0022 S1822	9.18	9.0	9.41%	1.05%	2.3	1491	3.83	15.1	444	>1.00%
0023 S1823	5.43	7.7	9.72%	8303	1.1	1385	2.74	13.6	627	>1.00%
0024 S1824	7.00	6.8	11.70%	8972	0.7	1501	9.33	13.3	1031	>1.00%
0025 S1825	0.41	5.8	476	55	0.6	1.25%	0.53	10.5	441	59.3
0026 S1826	17.45	6.1	8.72%	7069	0.7	1447	3.30	13.8	600	>1.00%
0027 S1827	23.88	7.9	5.14%	5912	0.5	1609	7.50	11.0	884	>1.00%
0028 S1828	7.34	18.8	11.20%	7055	4.6	443	1.20	12.2	767	>1.00%
0029 S1829	6.61	6.8	13.45%	9977	2.9	689	2.32	13.3	1185	>1.00%
0030 S1830	20.24	4.1	3775	1432	0.3	1.60%	5.90	4.7	251	227.0
0031 S1831	2.40	6.1	11.61%	8927	2.3	1065	1.69	13.5	970	>1.00%
0032 S1832	5.15	9.1	9.44%	8308	1.5	691	1.61	11.8	774	>1.00%
0033 S1833	28.44	2.9	5.97%	7389	0.3	5165	9.17	10.3	364	362.3
0034 S1834	44.45	5.5	3.81%	5055	3.6	3944	8.36*	25.9	429	559.7
0035 S1835	28.40	3.7	6.03%	7396	0.2	7250	6.83	10.4	158	326.1
0036 S1836	39.47	10.3	5.03%	5914	0.3	9977	9.46	28.0	531	835.1
0037 S1837	24.69	8.1	4.24%	3261	3.9	7938	9.88	20.5	636	>1.00%
0038 S1838	15.22	7.0	5.92%	3395	2.9	3174	7.88	16.2	635	>1.00%
0039 S1839	18.07	2.7	3.24%	2697	1.9	1872	6.63	4.1	1102	3442.6
0040 S1840	26.45	10.3	4.77%	8639	5.4	3710	11.06	22.9	466	4497.4



ELEMENTS	Pb-Rp1	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta
UNITS	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	50	0.05	0.002	0.05	0.05	0.1	0.5	0.1	0.05	0.01
DIGEST	4AH/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	MS	MS	MS	MS	MS	MS	MS	MS	MS
SAMPLE NUMBERS										
0001 S1801	17.99%	0.45	X	0.34	6.47	0.1	14.0	2.5	82.67	0.07
0002 S1802	2.26%	94.56	X	0.16	1.78	1.9	1.0	2.1	83.35	0.25
0003 S1803	1.02%	2.30	X	0.10	1.68	1.3	1.6	1.1	12.72	0.10
0004 S1804	5.62%	50.26	X	0.14	3.65	1.8	3.9	1.6	74.05	0.22
0005 S1805	1.97%	6.99	X	0.13	1.05	1.8	2.1	2.3	36.70	0.26
0006 S1806		82.26	X	0.08	1.37	3.0	X	2.6	40.09	0.26
0007 S1807	2.91%	1.94	X	0.15	1.23	0.8	3.3	1.3	24.76	0.16
0008 S1808	2.08%	74.68	X	0.11	1.03	0.6	2.1	2.0	27.72	0.14
0009 S1809	5.15%	0.99	X	0.15	2.29	1.1	2.6	1.8	27.63	0.16
0010 S1810		126.75	X	0.08	0.44	6.6	X	4.1	57.70	1.01
0011 S1811	1.45%	1.12	X	0.13	1.36	1.8	0.9	1.8	20.79	0.12
0012 S1812	5.21%	1.08	X	0.06	0.88	0.4	1.0	1.5	17.28	0.09
0013 S1813	2.26%	4.56	X	0.07	5.95	3.4	0.6	5.5	7.92	0.39
0014 S1814	1.41%	2.10	X	0.12	1.23	1.1	0.7	0.5	33.87	0.05
0015 S1815		77.86	X	0.13	1.54	6.0	0.6	2.1	51.85	0.58
0016 S1816		24.06	X	0.06	0.65	10.0	X	4.9	92.35	1.11
0017 S1817		75.11	X	0.14	1.52	4.7	X	2.0	44.09	0.44
0018 S1818	1.45%	50.01	X	0.08	0.97	2.5	1.0	2.2	54.20	0.47
0019 S1819		26.35	X	0.05	0.37	6.0	X	2.8	347.74	0.71
0020 S1820	2.36%	2.10	X	0.07	1.40	2.9	0.7	2.5	16.85	0.17
0021 S1821	3.74%	55.15	X	0.10	3.16	4.5	1.0	3.5	38.56	0.49
0022 S1822	1.46%	92.48	X	0.08	3.03	4.5	X	4.4	40.74	0.43
0023 S1823	5.18%	49.18	X	0.13	2.41	3.9	2.4	4.4	52.90	0.44
0024 S1824	1.49%	6.91	X	0.08	3.00	3.8	X	5.5	25.17	2.07
0025 S1825		1260.61	X	0.08	0.31	0.3	X	1.0	7.53	0.12
0026 S1826	3.97%	40.82	X	0.09	0.80	5.2	1.9	5.1	95.88	0.58
0027 S1827	1.18%	115.88	X	0.06	1.10	5.3	X	4.2	101.75	1.77
0028 S1828	3.82%	1.52	X	0.11	2.44	1.0	1.8	2.9	33.38	0.17
0029 S1829	2.24%	3.93	X	0.08	3.06	2.0	0.6	2.9	13.01	0.33
0030 S1830		26.79	X	X	0.16	8.3	X	2.5	207.43	0.59
0031 S1831	2.80%	2.29	X	0.07	3.09	1.4	0.7	3.5	25.11	0.27
0032 S1832	10.33%	11.88	X	0.20	2.51	1.6	4.3	3.6	95.55	0.22
0033 S1833		24.01	X	X	0.32	8.2	X	3.6	77.41	1.10
0034 S1834		162.06	X	X	0.15	7.9	X	3.0	66.84	0.53
0035 S1835		36.83	X	X	0.16	6.7	X	3.1	101.68	0.94
0036 S1836		146.10	X	X	0.17	9.7	X	3.7	61.98	0.85
0037 S1837	4.11%	118.13	X	X	1.59	7.4	3.2	5.1	86.88	0.83
0038 S1838	1.16%	111.30	X	0.06	1.42	5.4	1.0	4.0	68.06	0.83
0039 S1839		12.09	X	0.07	1.02	6.5	1.2	5.0	465.35	0.78
0040 S1840		119.42	X	X	0.53	8.5	X	5.3	79.58	0.94



ELEMENTS	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zn-Rp1
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.2	0.01	5	0.02	0.01	1	0.1	0.05	1	10
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4AH/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	OE
SAMPLE NUMBERS										
0001 S1801	1.9	0.28	53	0.08	1.97	X	0.3	1.29	9223	
0002 S1802	0.2	2.96	375	0.55	2.88	11	0.7	12.22	>2.00%	4.65%
0003 S1803	0.3	1.60	304	0.10	7.36	17	2.5	5.89	>2.00%	14.03%
0004 S1804	1.0	1.96	252	0.25	4.20	32	0.7	9.15	1.32%	
0005 S1805	0.7	1.60	296	0.29	8.91	15	1.8	15.11	>2.00%	5.08%
0006 S1806	0.7	8.38	440	0.49	3.15	265	0.9	14.48	5968	
0007 S1807	0.7	0.75	184	0.12	5.17	24	1.2	5.62	>2.00%	2.38%
0008 S1808	0.3	3.01	145	0.26	2.67	5	0.2	5.05	>2.00%	2.18%
0009 S1809	0.6	0.30	129	0.10	1.64	5	0.3	8.28	1.68%	
0010 S1810	X	8.18	1580	0.64	3.27	34	0.6	17.07	9482	
0011 S1811	0.2	0.30	110	0.08	4.41	15	0.6	11.61	1.81%	
0012 S1812	0.6	0.34	103	0.11	4.75	1	0.4	2.87	>2.00%	2.28%
0013 S1813	2.3	1.31	346	0.06	2.45	8	2.0	22.94	1.09%	
0014 S1814	0.2	1.16	158	0.34	4.86	13	3.2	6.87	>2.00%	5.47%
0015 S1815	X	8.66	1045	0.38	1.91	15	8.2	20.74	7920	
0016 S1816	X	17.20	2161	0.15	2.77	30	1.6	41.56	678	
0017 S1817	0.3	6.42	881	0.37	3.16	15	7.1	17.44	1.10%	
0018 S1818	X	3.92	584	0.24	3.01	16	0.8	8.58	3691	
0019 S1819	0.4	12.67	1764	0.15	2.47	34	6.2	16.88	220	
0020 S1820	0.9	0.49	264	0.04	5.44	10	5.5	7.57	>2.00%	8.02%
0021 S1821	3.2	6.34	1189	0.34	2.47	37	49.3	13.11	1.76%	
0022 S1822	1.2	2.78	686	0.52	2.70	557	6.3	20.90	>2.00%	2.65%
0023 S1823	2.4	0.64	443	0.37	1.87	18	4.2	20.37	>2.00%	3.79%
0024 S1824	0.7	1.87	785	0.05	2.31	21	3.8	23.19	1.27%	
0025 S1825	X	0.24	188	11.30	0.15	X	0.3	0.50	343	
0026 S1826	2.6	4.00	573	0.24	2.68	23	0.5	26.71	>2.00%	2.51%
0027 S1827	0.3	22.18	726	0.57	10.56	37	0.8	40.71	4905	
0028 S1828	1.8	0.39	254	0.06	2.32	5	2.0	8.20	>2.00%	7.66%
0029 S1829	0.9	1.44	469	0.07	3.07	16	8.6	12.92	>2.00%	3.99%
0030 S1830	X	9.64	2172	0.18	3.22	64	0.5	27.17	249	
0031 S1831	2.2	0.33	318	0.04	1.20	9	2.2	11.79	7529	
0032 S1832	5.1	0.87	288	0.09	1.62	9	2.8	9.48	1.46%	
0033 S1833	X	13.50	1848	0.15	3.68	39	1.9	52.76	279	
0034 S1834	X	19.02	2245	0.81	1.71	52	0.4	21.60	1169	
0035 S1835	X	17.97	1598	0.23	1.80	36	0.6	29.46	275	
0036 S1836	X	17.21	2051	0.77	2.32	45	0.4	38.66	1727	
0037 S1837	0.4	7.59	1473	0.59	4.72	31	0.6	30.84	1.53%	
0038 S1838	0.2	6.02	1114	0.63	7.31	25	0.8	22.44	5934	
0039 S1839	0.4	10.84	1084	0.08	5.86	46	1.2	33.87	>2.00%	2.18%
0040 S1840	X	17.65	2038	0.56	2.66	45	1.0	32.23	8294	



ELEMENTS	Zr
UNITS	ppm
DETECTION LIMIT	0.1
DIGEST	4A/
ANALYTICAL FINISH	MS
SAMPLE NUMBERS	
0001 S1801	1.7
0002 S1802	24.9
0003 S1803	17.1
0004 S1804	16.1
0005 S1805	5.5
0006 S1806	35.2
0007 S1807	5.0
0008 S1808	44.3
0009 S1809	2.7
0010 S1810	43.6
0011 S1811	2.4
0012 S1812	1.7
0013 S1813	10.3
0014 S1814	5.2
0015 S1815	43.9
0016 S1816	45.3
0017 S1817	33.4
0018 S1818	33.6
0019 S1819	36.9
0020 S1820	4.5
0021 S1821	27.4
0022 S1822	20.8
0023 S1823	11.6
0024 S1824	13.6
0025 S1825	20.7
0026 S1826	9.5
0027 S1827	45.3
0028 S1828	3.4
0029 S1829	9.7
0030 S1830	35.4
0031 S1831	4.1
0032 S1832	8.4
0033 S1833	53.4
0034 S1834	71.5
0035 S1835	45.8
0036 S1836	47.2
0037 S1837	67.9
0038 S1838	55.8
0039 S1839	18.9
0040 S1840	63.0



ELEMENTS	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.005	0.05	50	0.5	0.1	0.05	0.01	50	0.02	0.01
DIGEST	FA25/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	MS	MS	MS	MS	MS	MS	MS	MS	MS
SAMPLE NUMBERS										
0041 S1841	X	1.42	4.94%	1.5	173.4	1.71	13.72	5.21%	0.99	53.81
0042 S1842	I/S	0.43	5.93%	13.1	29.5	1.10	0.33	1.65%	0.05	6.72

CHECKS										
0001 S1813	0.141	14.20	1.20%	5.0	57.5	1.06	75.62	4.79%	20.60	16.03

STANDARDS										
0001 OREAS 135		53.65	5.07%	894.7	551.6	2.84	4.50	1.87%	63.47	70.16
0002 ST638	5.226									
0003 OREAS 136		140.42	4.06%	2111.8	546.0	2.43	6.99	2.13%	103.79	96.92
0004 ST671	0.765									
0005 CPB-2										
0006 KC-1a										

BLANKS										
0001 Control Blank	0.008	X	109	X	0.3	X	0.09	X	X	0.02



ELEMENTS	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K
UNITS	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.1	1	0.05	0.5	0.01	0.05	0.1	0.05	0.01	20
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
SAMPLE NUMBERS										
0041 S1841	2.5	37	0.28	17.6	4.02	17.11	3.4	1.27	0.58	1748
0042 S1842	26.9	58	26.59	40.8	2.78	16.92	1.8	1.51	0.02	3.75%

CHECKS										
0001 S1813	8.3	7	0.22	1031.7	3.42	5.86	2.6	0.36	0.27	1108

STANDARDS										
0001 OREAS 135	29.3	84	5.53	288.7	9.26	12.26	4.4	2.98	0.91	4.44%
0002 ST638										
0003 OREAS 136	27.2	38	4.40	302.8	11.30	11.10	3.8	2.57	1.94	3.50%
0004 ST671										
0005 CPB-2										
0006 KC-1a										

BLANKS										
0001 Control Blank	X	1	X	2.1	X	X	X	X	X	X



ELEMENTS	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.01	0.1	20	1	0.1	20	0.05	0.5	50	0.5
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
SAMPLE NUMBERS										
0041 S1841	25.30	1.9	4552	2070	0.4	2153	7.73	7.5	337	577.1
0042 S1842	2.79	6.4	8425	361	9.2	1.57%	2.15	32.3	553	38.4

CHECKS										
0001 S1813	6.60	2.1	16.71%	1.00%	2.2	865	2.37	10.0	2139	>1.00%

STANDARDS										
0001 OREAS 135	33.55	46.7	1.02%	4674	8.7	1768	4.78	50.4	844	>1.00%
0002 ST638										
0003 OREAS 136	47.41	40.4	8664	9686	6.7	1397	4.24	28.5	836	>1.00%
0004 ST671										
0005 CPB-2										
0006 KC-1a										

BLANKS										
0001 Control Blank	0.01	X	29	4	X	X	X	X	X	14.9



ELEMENTS	Pb-Rp1	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta
UNITS	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	50	0.05	0.002	0.05	0.05	0.1	0.5	0.1	0.05	0.01
DIGEST	4AH/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	MS	MS	MS	MS	MS	MS	MS	MS	MS
SAMPLE NUMBERS										
0041 S1841		15.23	X	X	0.84	6.5	X	3.3	290.20	0.82
0042 S1842		985.44	X	X	1.22	8.8	X	1.0	63.93	0.23
CHECKS										
0001 S1813		5.32	X	0.05	6.07	3.6	0.7	5.4	8.20	0.35
STANDARDS										
0001 OREAS 135		206.16	0.010	7.05	37.37	7.6	1.5	2.3	168.79	0.41
0002 ST638										
0003 OREAS 136		162.93	0.009	7.11	94.23	6.5	1.2	4.1	154.50	0.42
0004 ST671										
0005 CPB-2	62.65%									
0006 KC-1a	2.14%									
BLANKS										
0001 Control Blank		X	X	X	X	X	X	X	0.08	X



ELEMENTS	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zn-Rp1
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.2	0.01	5	0.02	0.01	1	0.1	0.05	1	10
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4AH/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	OE
SAMPLE NUMBERS										
0041 S1841	X	14.70	1843	0.09	3.17	35	1.9	20.69	291	
0042 S1842	X	0.57	2889	8.61	0.28	59	0.5	8.93	56	
CHECKS										
0001 S1813	2.0	1.46	337	0.07	2.52	9	2.1	22.63	1.08%	
STANDARDS										
0001 OREAS 135	0.2	9.87	1442	34.66	9.96	66	3.7	22.02	>2.00%	
0002 ST638										
0003 OREAS 136	X	8.57	1211	29.89	8.70	47	6.2	29.14	>2.00%	
0004 ST671										
0005 CPB-2										6.08%
0006 KC-1a										33.61%
BLANKS										
0001 Control Blank	X	X	X	X	X	X	X	X	X	13



ELEMENTS	Zr
UNITS	ppm
DETECTION LIMIT	0.1
DIGEST	4A/
ANALYTICAL FINISH	MS
SAMPLE NUMBERS	
0041 S1841	33.0
0042 S1842	47.3

CHECKS	
0001 S1813	10.7

STANDARDS	
0001 OREAS 135	104.6
0002 ST638	
0003 OREAS 136	84.3
0004 ST671	
0005 CPB-2	
0006 KC-1a	

BLANKS	
0001 Control Blank	X



METHOD CODE DESCRIPTION

Method Code	Analysing Laboratory NATA Laboratory Accreditation	NATA Scope of Accreditation
4A/MS	Intertek Genalysis Perth 3244 3237	4A/ : MPL_W002, MS : ICP_W003
	Multi-acid digest including Hydrofluoric, Nitric, Perchloric and Hydrochloric acids in Teflon Tubes. Analysed by Inductively Coupled Plasma Mass Spectrometry.	
4AH/OE	Intertek Genalysis Perth 3244 3237	4AH/ : MPL_W003, OE : ICP_W004
	Modified (for higher precision) multi-acid digest including Hydrofluoric, Nitric, Perchloric and Hydrochloric acids. Analysed by Inductively Coupled Plasma Optical (Atomic) Emission Spectrometry.	
FA25/OE	Intertek Genalysis Perth 3244 3237	FA25/ : FA_W001, OE : ICP_W004
	25g Lead collection fire assay. Analysed by Inductively Coupled Plasma Optical (Atomic) Emission Spectrometry.	