

MINERALS TEST REPORT

CLIENT

TODD RIVER METALS PTY LTD

PO Box 2019
SUBIACO, W.A. 6904
AUSTRALIA

JOB INFORMATION

JOB CODE	: 2039.0/1807742
NO. SAMPLES	: 118
NO. ELEMENTS	: 34
CLIENT ORDER NO.	: Q180228 (Job 1 of 1)
SAMPLE SUBMISSION NO.	: 18MH07
PROJECT	: MH
SAMPLE TYPE	: Drill core
DATE RECEIVED	: 01/06/2018
DATE REPORTED	: 30/06/2018
DATE PRINTED	: 30/06/2018

REPORT NOTES

TESTED BY

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This report relates specifically to the sample(s) tested that were drawn and/or provided by the client or their nominated third party to Intertek. The reported result(s) provide no warranty or verification on the sample(s) representing any specific goods and/or shipment. This report was prepared solely for the use of the client named in this report. Intertek accepts no responsibility for any loss, damage or liability suffered by a third party as a result of any reliance upon or use of this report. The results provided are not intended for commercial settlement purposes.

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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	Bi	Ca	Cd	Ce	Co
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.005	0.5	50	10	2	5	50	0.5	20	1
DIGEST	FA25/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	OE	OE	OE	OE	OE	OE	OE	OE	OE
SAMPLE NUMBERS										
0001 MH180939	X	X	11.78%	X	777	X	2333	X	107	12
0002 MH180940	X	X	8.23%	X	605	X	4504	X	91	9
0003 MH180941	X	X	6.04%	X	539	X	5399	X	87	6
0004 MH180942	X	X	7.70%	X	547	15	5.89%	X	61	51
0005 MH180943	X	X	8.31%	X	756	X	3281	X	91	11
0006 MH180944	X	X	6.91%	X	569	X	5316	X	99	8
0007 MH180945	0.014	X	1.69%	X	160	X	4140	X	26	X
0008 MH180946	X	X	2.88%	X	198	X	2334	X	31	3
0009 MH180947	X	X	11.85%	X	854	X	1689	X	103	16
0010 MH180948	X	X	10.21%	X	766	X	1612	X	96	14
0011 MH180949	X	X	6.13%	X	614	X	5535	X	88	8
0012 MH180950	0.391	0.5	4.96%	X	10	X	1322	0.8	X	1
0013 MH180951	0.005	X	10.00%	X	810	X	1679	X	97	14
0014 MH180952	X	X	5.62%	X	485	X	8424	X	90	6
0015 MH180953	X	X	5.96%	X	480	X	6381	X	95	6
0016 MH180954	X	X	7.25%	X	678	X	2127	X	74	10
0017 MH180955	X	X	5.44%	X	479	X	3710	X	83	6
0018 MH180956	X	X	8.58%	X	733	X	2785	X	98	11
0019 MH180957	X	X	7.52%	X	609	X	3176	X	83	10
0020 MH180958	X	X	5.70%	X	392	X	3706	X	84	7
0021 MH180959	X	X	7.42%	X	455	X	4906	X	136	8
0022 MH180960	X	X	7.98%	X	481	X	3621	X	88	9
0023 MH180961	X	X	8.86%	X	470	X	2635	X	84	11
0024 MH180962	X	X	9.07%	X	404	X	2191	X	94	8
0025 MH180963	0.005	X	10.44%	10	530	X	2922	X	103	11
0026 MH180964	0.023	X	6.93%	35	426	X	2213	0.5	83	6
0027 MH180965	X	X	8.47%	19	615	X	1999	0.6	86	7
0028 MH180966	0.006	X	8.05%	X	555	X	2166	3.9	93	6
0029 MH180967	X	X	11.01%	117	1069	X	2793	1.6	111	11
0030 MH180968	0.005	X	5.26%	X	480	X	1943	0.6	71	4
0031 MH180969	X	X	9.24%	X	926	X	2918	2.1	103	10
0032 MH180970	X	X	10.65%	15	890	X	1772	X	92	13
0033 MH180971	X	X	7.32%	X	550	X	2492	X	71	7
0034 MH180972	X	X	6.11%	X	498	X	3693	X	95	7
0035 MH180973	X	X	6.16%	X	528	X	3632	X	79	6
0036 MH180974	X	X	9.77%	35	938	X	2511	X	98	21
0037 MH180975	0.028	X	5.75%	12	30	X	1.74%	X	X	27
0038 MH180976	X	X	5.08%	X	333	X	2356	X	75	4
0039 MH180977	X	X	6.06%	X	420	X	2001	X	88	11
0040 MH180978	X	X	6.69%	X	529	X	2813	X	84	5



ELEMENTS	Cr	Cu	Fe	K	La	Li	Mg	Mn	Mo	Na
UNITS	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	5	1	0.01	20	20	1	20	1	2	20
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	OE	OE	OE	OE	OE	OE	OE	OE	OE
SAMPLE NUMBERS										
0001 MH180939	76	30	4.99	5.26%	56	43	1.19%	422	X	4833
0002 MH180940	73	36	3.36	3.57%	39	32	8042	367	X	1.00%
0003 MH180941	30	4	2.32	2.43%	31	28	5354	290	X	1.18%
0004 MH180942	51	81	12.66	1.95%	24	36	3.07%	1871	X	2.11%
0005 MH180943	48	9	3.52	4.05%	31	41	8644	361	X	6730
0006 MH180944	49	X	3.04	2.99%	39	30	6928	399	X	1.01%
0007 MH180945	25	12	0.63	6143	X	4	809	106	X	4018
0008 MH180946	26	11	0.85	8169	X	6	1664	86	X	6505
0009 MH180947	69	8	5.03	6.00%	50	57	1.19%	398	X	3979
0010 MH180948	58	22	4.24	5.18%	33	43	1.03%	327	X	3821
0011 MH180949	40	12	2.54	2.59%	41	26	5600	365	X	1.11%
0012 MH180950	17	207	0.22	4.58%	X	5	380	48	X	1.28%
0013 MH180951	62	12	4.04	5.37%	41	57	1.05%	292	X	3050
0014 MH180952	37	15	2.17	1.88%	35	22	5040	360	X	1.35%
0015 MH180953	37	6	2.27	2.24%	38	25	5415	266	X	1.16%
0016 MH180954	40	106	3.94	2.85%	35	31	8629	595	X	9680
0017 MH180955	31	X	2.26	1.88%	35	18	4841	404	X	1.39%
0018 MH180956	52	1	3.91	3.65%	33	35	9431	644	X	1.04%
0019 MH180957	47	26	3.29	3.05%	26	29	8284	569	X	1.07%
0020 MH180958	51	12	2.79	1.99%	33	21	6361	470	X	1.35%
0021 MH180959	40	13	3.40	2.40%	65	26	8208	598	X	1.95%
0022 MH180960	49	1	3.04	2.47%	30	24	1.00%	443	X	1.73%
0023 MH180961	55	2	3.48	3.04%	40	30	1.41%	447	X	1.24%
0024 MH180962	55	3	3.37	3.12%	40	27	1.27%	448	X	1.37%
0025 MH180963	63	31	4.09	3.48%	34	32	1.30%	507	X	2.01%
0026 MH180964	43	24	2.68	2.69%	29	20	6353	338	X	1.16%
0027 MH180965	46	185	3.62	3.42%	43	26	1.01%	411	X	1.45%
0028 MH180966	48	95	4.20	2.68%	43	28	1.38%	601	21	1.88%
0029 MH180967	67	117	4.80	3.92%	53	31	1.14%	639	4	2.68%
0030 MH180968	31	7	2.56	1.75%	24	17	6137	403	X	1.36%
0031 MH180969	54	162	3.78	3.35%	34	25	9016	505	5	2.02%
0032 MH180970	63	3	4.41	4.79%	47	33	1.18%	570	X	7088
0033 MH180971	46	4	3.47	2.83%	35	26	9227	496	X	1.08%
0034 MH180972	36	10	2.50	2.07%	39	17	6397	363	X	1.48%
0035 MH180973	35	X	2.51	2.08%	34	17	6145	350	X	1.50%
0036 MH180974	55	129	4.19	3.99%	47	27	1.08%	458	X	1.11%
0037 MH180975	49	36	2.88	3.72%	X	6	8119	368	9	1.61%
0038 MH180976	28	19	2.10	1.74%	36	14	6519	288	X	8414
0039 MH180977	34	158	2.54	2.17%	35	16	8464	315	X	9373
0040 MH180978	40	9	2.29	2.25%	36	16	7328	381	X	1.31%



ELEMENTS	Ni	P	Pb	S	Sb	Sc	Sn	Sr	Te	Ti
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	1	50	5	50	5	1	5	1	5	5
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	OE	OE	OE	OE	OE	OE	OE	OE	OE
SAMPLE NUMBERS										
0001 MH180939	37	654	27	374	X	16	8	33	X	3686
0002 MH180940	23	532	29	52	X	10	7	52	X	2868
0003 MH180941	16	467	16	X	X	7	X	58	X	2452
0004 MH180942	64	2634	12	1461	X	34	X	285	X	1.56%
0005 MH180943	25	525	16	X	X	11	7	33	X	3103
0006 MH180944	21	586	53	X	X	9	15	55	X	3197
0007 MH180945	3	1199	105	X	X	2	8	18	X	748
0008 MH180946	5	581	71	X	X	1	9	20	X	695
0009 MH180947	36	647	14	X	X	16	28	19	X	3664
0010 MH180948	31	552	15	55	X	13	8	20	X	3309
0011 MH180949	17	482	27	X	X	7	5	59	X	2561
0012 MH180950	11	499	28	627	X	X	X	22	X	220
0013 MH180951	33	595	24	X	X	13	20	19	X	3386
0014 MH180952	15	470	19	X	X	6	X	79	X	2368
0015 MH180953	15	532	25	X	X	7	6	80	X	2423
0016 MH180954	22	463	49	710	X	8	7	33	X	2530
0017 MH180955	14	443	32	X	X	6	X	59	X	2319
0018 MH180956	26	517	37	100	X	11	8	40	X	3042
0019 MH180957	21	496	82	103	X	10	7	45	X	2949
0020 MH180958	14	426	101	328	X	7	X	51	X	2287
0021 MH180959	18	566	70	372	X	8	5	73	X	2980
0022 MH180960	23	509	20	385	X	10	7	46	X	2957
0023 MH180961	29	517	28	X	X	12	7	28	X	3209
0024 MH180962	28	525	32	X	X	12	9	25	X	3122
0025 MH180963	30	532	252	1663	X	14	8	37	X	3210
0026 MH180964	18	456	150	1101	X	8	8	28	X	2452
0027 MH180965	18	478	170	4989	X	11	12	30	X	2658
0028 MH180966	12	482	1272	4706	X	11	10	33	X	2823
0029 MH180967	29	630	1008	4771	X	16	13	41	X	3740
0030 MH180968	13	408	148	444	X	6	6	26	X	2114
0031 MH180969	20	552	559	4121	X	11	11	44	X	2990
0032 MH180970	35	544	43	62	X	14	11	23	X	3536
0033 MH180971	25	472	26	118	X	10	6	34	X	2965
0034 MH180972	17	484	64	59	X	7	X	53	X	2646
0035 MH180973	17	478	53	79	X	7	6	53	X	2607
0036 MH180974	36	555	45	2949	X	13	9	33	X	3291
0037 MH180975	33	604	34	172	X	8	X	73	X	3168
0038 MH180976	12	432	33	115	X	5	X	27	X	2042
0039 MH180977	18	460	40	1946	X	7	6	22	X	2475
0040 MH180978	16	482	39	431	X	8	6	33	X	2587



ELEMENTS	Tl	V	W	Zn
UNITS	ppm	ppm	ppm	ppm
DETECTION LIMIT	5	1	5	1
DIGEST	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	OE	OE	OE
SAMPLE NUMBERS				
0001 MH180939	X	77	X	128
0002 MH180940	X	50	6	84
0003 MH180941	X	33	X	50
0004 MH180942	X	319	X	145
0005 MH180943	X	54	5	81
0006 MH180944	X	45	5	78
0007 MH180945	X	6	X	18
0008 MH180946	X	10	X	33
0009 MH180947	X	74	11	119
0010 MH180948	X	65	5	89
0011 MH180949	X	33	X	68
0012 MH180950	10	2	X	340
0013 MH180951	X	63	13	95
0014 MH180952	X	31	X	49
0015 MH180953	X	34	X	50
0016 MH180954	X	43	5	145
0017 MH180955	X	29	X	32
0018 MH180956	X	55	5	92
0019 MH180957	X	49	X	205
0020 MH180958	X	33	X	91
0021 MH180959	X	39	X	111
0022 MH180960	X	50	X	44
0023 MH180961	X	56	X	50
0024 MH180962	X	57	X	121
0025 MH180963	X	69	5	184
0026 MH180964	X	39	5	330
0027 MH180965	X	53	8	382
0028 MH180966	X	55	X	2057
0029 MH180967	X	75	X	912
0030 MH180968	X	28	X	465
0031 MH180969	X	57	X	1456
0032 MH180970	X	71	X	98
0033 MH180971	X	46	X	52
0034 MH180972	X	35	X	70
0035 MH180973	X	35	X	80
0036 MH180974	X	62	6	165
0037 MH180975	5	66	X	62
0038 MH180976	X	26	X	71
0039 MH180977	X	36	X	69
0040 MH180978	X	39	X	100



ELEMENTS	Au	Ag	Al	As	Ba	Bi	Ca	Cd	Ce	Co
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.005	0.5	50	10	2	5	50	0.5	20	1
DIGEST	FA25/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	OE	OE	OE	OE	OE	OE	OE	OE	OE
SAMPLE NUMBERS										
0041 MH180979	X	X	5.04%	X	421	X	2544	X	78	3
0042 MH180980	X	X	6.40%	X	701	X	1987	X	85	8
0043 MH180981	X	X	2.38%	X	209	X	1190	X	39	3
0044 MH180982	X	X	5.02%	X	511	X	2571	X	71	4
0045 MH180983	X	X	6.85%	13	712	X	2826	X	76	15
0046 MH180984	X	X	6.48%	X	661	X	3312	X	80	7
0047 MH180985	X	X	6.56%	X	646	X	2763	X	88	15
0048 MH180986	X	X	5.56%	X	528	X	2964	X	70	6
0049 MH180987	X	X	11.80%	X	988	X	1751	1.2	124	12
0050 MH180988	X	X	7.15%	X	586	X	2764	X	85	6
0051 MH180989	X	X	5.37%	X	563	X	2898	X	71	5
0052 MH180990	X	X	7.45%	X	654	X	2010	1.4	79	9
0053 MH180991	X	X	7.95%	X	645	X	2640	X	82	10
0054 MH180992	X	X	9.83%	X	799	X	2153	X	97	11
0055 MH180993	X	X	8.10%	X	642	X	3015	X	104	8
0056 MH180994	X	X	4.63%	X	458	X	2225	X	70	4
0057 MH180995	X	X	6.47%	X	575	X	2986	X	96	6
0058 MH180996	X	0.7	7.30%	X	671	X	2230	5.1	79	10
0059 MH180997	X	X	8.06%	X	737	X	2671	2.1	74	9
0060 MH180998	X	X	8.54%	X	617	X	3081	X	81	7
0061 MH180999	X	X	6.11%	X	473	X	4124	X	94	6
0062 MH181000	0.500	2.6	7.56%	59	1148	7	3.94%	2.1	108	25
0063 MH181001	X	X	6.67%	X	523	X	3048	X	76	8
0064 MH181002	X	X	6.34%	X	461	X	3081	X	77	7
0065 MH181003	X	X	6.79%	X	340	X	1515	X	82	11
0066 MH181004	X	X	5.74%	X	366	X	1883	X	67	6
0067 MH181005	X	X	7.05%	X	478	X	5154	X	74	10
0068 MH181006	X	X	9.21%	X	557	X	1405	X	106	23
0069 MH181007	X	X	6.22%	X	388	X	2625	X	78	16
0070 MH181008	X	X	3.74%	X	175	X	1865	X	58	6
0071 MH181009	X	X	5.44%	X	390	X	3571	X	78	6
0072 MH181010	X	0.9	7.53%	X	598	X	2958	1.3	87	10
0073 MH181011	X	X	7.12%	X	623	X	3548	X	92	11
0074 MH181012	X	X	5.35%	X	436	X	3554	X	79	5
0075 MH181013	X	X	5.51%	X	293	X	3018	X	81	9
0076 MH181014	X	X	6.28%	X	353	X	2385	X	94	7
0077 MH181015	X	X	6.67%	X	409	X	1744	X	79	39
0078 MH181016	X	X	8.69%	X	549	X	2056	X	105	11
0079 MH181017	X	X	10.22%	X	713	5	2155	X	108	12
0080 MH181018	X	X	2.08%	X	130	X	1160	X	21	4



ELEMENTS	Cr	Cu	Fe	K	La	Li	Mg	Mn	Mo	Na
UNITS	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	5	1	0.01	20	20	1	20	1	2	20
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	OE	OE	OE	OE	OE	OE	OE	OE	OE
SAMPLE NUMBERS										
0041 MH180979	27	4	1.66	1.78%	37	12	5094	265	X	9155
0042 MH180980	45	78	3.49	2.70%	41	21	6823	437	X	5425
0043 MH180981	21	34	2.22	6382	X	9	4842	309	X	4147
0044 MH180982	47	42	3.09	1.86%	34	14	5459	402	X	7547
0045 MH180983	47	203	3.05	2.84%	26	18	6335	363	X	8138
0046 MH180984	39	1	2.43	2.65%	39	18	6058	345	X	9830
0047 MH180985	39	163	3.36	2.76%	37	17	6144	323	X	8925
0048 MH180986	29	63	2.72	2.25%	30	15	5097	353	X	7484
0049 MH180987	67	70	4.57	4.68%	43	31	1.10%	466	X	7953
0050 MH180988	40	7	2.78	3.05%	29	20	9281	364	X	8787
0051 MH180989	35	160	2.62	2.19%	24	15	4736	384	X	8763
0052 MH180990	56	167	3.80	3.37%	38	24	9026	531	X	5154
0053 MH180991	49	11	3.60	3.40%	38	24	9992	518	X	6801
0054 MH180992	62	11	4.07	4.02%	31	28	1.31%	469	X	6975
0055 MH180993	53	9	3.19	2.95%	35	23	1.23%	376	X	9527
0056 MH180994	30	1	1.72	1.60%	29	12	6285	250	X	6426
0057 MH180995	38	3	2.40	2.46%	44	18	7452	359	X	7875
0058 MH180996	46	68	3.93	3.40%	37	30	9276	504	X	3674
0059 MH180997	47	8	3.73	3.78%	33	35	1.02%	511	4	3882
0060 MH180998	49	12	2.79	3.60%	27	25	8132	408	X	1.02%
0061 MH180999	37	X	2.28	2.03%	45	17	9113	400	X	9672
0062 MH181000	151	3885	6.16	2.20%	51	12	1.88%	892	72	2.39%
0063 MH181001	39	3	2.57	2.27%	30	20	1.14%	404	X	9988
0064 MH181002	36	X	2.48	2.22%	33	16	8296	371	X	1.33%
0065 MH181003	40	X	2.37	2.71%	38	20	9954	312	2	6249
0066 MH181004	32	X	2.08	1.91%	23	13	9041	310	X	9206
0067 MH181005	40	4	2.95	2.61%	25	18	1.07%	400	X	6604
0068 MH181006	61	1	2.31	3.90%	52	24	1.27%	208	X	5138
0069 MH181007	36	41	2.80	2.00%	26	17	1.16%	284	X	8416
0070 MH181008	21	1	1.28	1.09%	24	8	5519	158	X	8691
0071 MH181009	32	X	2.15	2.05%	30	12	5408	377	X	1.02%
0072 MH181010	49	34	3.19	2.89%	29	19	9783	486	X	1.03%
0073 MH181011	48	31	3.16	2.62%	38	18	9851	500	X	1.16%
0074 MH181012	32	1	1.91	1.56%	35	10	6169	349	X	1.38%
0075 MH181013	31	5	1.95	1.77%	36	12	7322	259	X	1.22%
0076 MH181014	39	X	2.37	2.20%	44	15	9202	329	X	9903
0077 MH181015	46	282	5.30	2.45%	37	16	9859	377	X	7350
0078 MH181016	52	2	3.34	3.35%	43	25	1.56%	458	X	7581
0079 MH181017	64	21	4.22	4.20%	31	26	1.38%	523	X	7415
0080 MH181018	15	7	1.01	8384	X	6	2417	152	X	3337



ELEMENTS	Ni	P	Pb	S	Sb	Sc	Sn	Sr	Te	Ti
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	1	50	5	50	5	1	5	1	5	5
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	OE	OE	OE	OE	OE	OE	OE	OE	OE
SAMPLE NUMBERS										
0041 MH180979	10	426	56	317	X	6	5	30	X	2030
0042 MH180980	21	591	36	2141	X	9	10	19	X	2459
0043 MH180981	8	207	69	1262	X	2	X	12	X	900
0044 MH180982	13	386	34	1646	X	6	7	33	X	2077
0045 MH180983	26	432	173	4068	X	9	9	31	X	2482
0046 MH180984	18	453	76	135	X	8	6	41	X	2430
0047 MH180985	23	472	635	6502	X	8	6	35	X	2527
0048 MH180986	15	403	214	2220	X	6	X	40	X	2114
0049 MH180987	32	512	793	2716	X	16	12	26	X	3545
0050 MH180988	21	473	136	223	X	9	7	34	X	2753
0051 MH180989	14	386	847	1268	X	6	12	40	X	2076
0052 MH180990	26	366	480	2248	X	10	15	20	X	2885
0053 MH180991	28	484	69	374	X	11	9	35	X	3237
0054 MH180992	32	534	69	210	X	13	15	29	X	3341
0055 MH180993	25	579	147	458	X	11	12	39	X	3296
0056 MH180994	11	367	44	108	X	5	5	29	X	1851
0057 MH180995	19	474	61	236	X	8	23	41	X	2613
0058 MH180996	24	744	594	3446	X	9	58	23	X	2584
0059 MH180997	29	738	81	1179	X	8	66	20	X	2272
0060 MH180998	23	758	55	489	X	10	50	41	X	2668
0061 MH180999	16	533	56	X	X	7	13	43	X	2359
0062 MH181000	2348	1019	2178	4131	X	19	X	300	X	7191
0063 MH181001	20	465	51	97	X	8	9	44	X	2397
0064 MH181002	18	451	39	X	X	8	10	46	X	2641
0065 MH181003	17	479	13	50	X	8	27	13	X	2221
0066 MH181004	15	430	18	X	X	6	6	21	X	2086
0067 MH181005	21	475	16	81	X	8	9	24	X	2612
0068 MH181006	19	518	39	827	X	12	38	16	X	2290
0069 MH181007	22	505	42	2389	X	7	7	24	X	2082
0070 MH181008	7	368	27	X	X	3	X	23	X	1003
0071 MH181009	15	442	46	X	X	6	X	56	X	2250
0072 MH181010	24	527	1119	1001	X	10	8	44	X	3014
0073 MH181011	26	530	96	1013	X	9	6	48	X	3203
0074 MH181012	15	438	28	X	X	6	X	56	X	2159
0075 MH181013	14	454	34	385	X	6	X	38	X	2160
0076 MH181014	21	482	31	72	X	8	6	27	X	2666
0077 MH181015	65	402	50	1.91%	X	9	6	22	X	2591
0078 MH181016	30	635	32	78	X	11	8	21	X	3188
0079 MH181017	32	609	33	1241	X	14	10	25	X	3755
0080 MH181018	8	128	12	433	X	3	X	14	X	931



ELEMENTS	Tl	V	W	Zn
UNITS	ppm	ppm	ppm	ppm
DETECTION LIMIT	5	1	5	1
DIGEST	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	OE	OE	OE
SAMPLE NUMBERS				
0041 MH180979	X	27	X	152
0042 MH180980	X	45	7	117
0043 MH180981	X	10	X	86
0044 MH180982	X	29	X	65
0045 MH180983	X	41	X	364
0046 MH180984	X	38	X	67
0047 MH180985	X	38	X	98
0048 MH180986	X	31	X	104
0049 MH180987	X	76	7	807
0050 MH180988	X	42	X	123
0051 MH180989	X	30	5	307
0052 MH180990	X	51	6	1450
0053 MH180991	X	54	7	173
0054 MH180992	X	67	7	154
0055 MH180993	X	53	6	82
0056 MH180994	X	26	X	43
0057 MH180995	X	38	7	91
0058 MH180996	X	47	6	2835
0059 MH180997	X	48	10	1162
0060 MH180998	X	50	12	87
0061 MH180999	X	36	X	84
0062 MH181000	X	145	X	1118
0063 MH181001	X	38	X	127
0064 MH181002	X	37	5	57
0065 MH181003	X	40	8	49
0066 MH181004	X	31	X	25
0067 MH181005	X	42	X	36
0068 MH181006	X	57	10	33
0069 MH181007	X	34	5	48
0070 MH181008	X	15	X	38
0071 MH181009	X	31	X	55
0072 MH181010	X	50	X	803
0073 MH181011	X	47	X	115
0074 MH181012	X	29	X	34
0075 MH181013	X	30	X	41
0076 MH181014	X	37	X	62
0077 MH181015	X	43	X	100
0078 MH181016	X	59	6	122
0079 MH181017	X	69	5	111
0080 MH181018	X	14	X	43



ELEMENTS	Au	Ag	Al	As	Ba	Bi	Ca	Cd	Ce	Co
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.005	0.5	50	10	2	5	50	0.5	20	1
DIGEST	FA25/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	OE	OE	OE	OE	OE	OE	OE	OE	OE
SAMPLE NUMBERS										
0081 MH181019	X	X	10.97%	X	763	X	3240	X	117	11
0082 MH181020	X	X	5.95%	X	444	X	4475	X	93	6
0083 MH181021	X	X	8.36%	X	665	5	3494	X	105	13
0084 MH181022	X	X	9.20%	X	659	X	3148	X	98	13
0085 MH181023	X	X	3.82%	X	192	X	1629	X	65	53
0086 MH181024	X	X	5.90%	X	360	X	2387	X	74	84
0087 MH181025	X	X	>15.00%	21	51	11	176	X	X	X
0088 MH181026	X	X	6.44%	X	465	X	2625	X	95	11
0089 MH181027	X	X	7.88%	X	535	X	3193	X	90	12
0090 MH181028	X	X	8.10%	X	127	X	3248	X	X	5
0091 MH181029	X	X	10.09%	18	895	X	2846	X	124	52
0092 MH181030	X	X	7.60%	X	606	X	2779	X	80	16
0093 MH181031	X	X	6.44%	X	456	X	2624	X	74	11
0094 MH181032	0.010	13.2	4.44%	102	190	511	1745	1.5	67	58
0095 MH181033	X	X	5.30%	23	458	X	2696	X	80	7
0096 MH181034	X	X	5.07%	X	470	X	2350	X	76	11
0097 MH181035	X	X	5.15%	20	344	X	2496	X	80	6
0098 MH181036	X	X	4.90%	X	395	X	2528	X	76	6
0099 MH181037	X	X	5.26%	X	205	X	1702	X	76	4
0100 MH181038	X	X	5.20%	23	379	X	1663	X	66	4
0101 MH181039	X	3.1	7.47%	X	659	X	2138	8.3	82	21
0102 MH181040	X	X	9.67%	X	941	5	2244	X	95	10
0103 MH181041	X	X	8.26%	X	782	X	2749	X	83	9
0104 MH181042	X	X	7.68%	X	678	X	3122	X	93	8
0105 MH181043	X	X	8.19%	10	792	X	2761	X	95	9
0106 MH181044	X	X	3.88%	X	541	X	2382	0.6	62	12
0107 MH181045	X	X	3.46%	X	549	X	2349	X	76	3
0108 MH181046	X	X	4.00%	X	480	X	2882	X	110	4
0109 MH181047	X	X	3.81%	X	572	X	1906	X	79	1
0110 MH181048	X	X	5.67%	X	492	X	2512	2.9	65	9
0111 MH181049	X	X	10.09%	X	770	X	1725	X	97	9
0112 MH181050	0.376	0.5	4.79%	X	13	X	1241	0.7	X	2
0113 MH181051	X	X	8.27%	X	640	X	1919	X	83	10
0114 MH181052	X	X	5.89%	X	348	X	1661	X	73	5
0115 MH181053	X	X	8.36%	X	166	X	3323	X	X	2
0116 MH181054	X	X	10.20%	11	686	X	1613	1.0	95	12
0117 MH181055	X	X	8.54%	X	621	X	2801	X	86	12
0118 MH181056	X	X	5.53%	X	403	X	2914	X	81	5



ELEMENTS	Cr	Cu	Fe	K	La	Li	Mg	Mn	Mo	Na
UNITS	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	5	1	0.01	20	20	1	20	1	2	20
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	OE	OE	OE	OE	OE	OE	OE	OE	OE
SAMPLE NUMBERS										
0081 MH181019	64	X	3.57	4.19%	41	28	1.60%	528	X	1.08%
0082 MH181020	38	X	2.34	2.12%	39	14	6102	366	X	1.21%
0083 MH181021	58	17	3.76	3.52%	43	25	9517	562	X	9408
0084 MH181022	61	16	3.66	3.78%	42	25	1.15%	519	X	1.07%
0085 MH181023	29	16	1.83	1.27%	26	10	6709	184	X	7733
0086 MH181024	42	X	2.55	1.75%	31	16	1.22%	266	X	1.41%
0087 MH181025	155	5	16.33	1520	X	11	207	373	21	118
0088 MH181026	47	8	3.05	2.45%	39	17	9511	379	X	1.06%
0089 MH181027	55	11	3.68	2.87%	42	25	1.19%	535	X	1.30%
0090 MH181028	6	8	1.23	1.93%	X	8	2301	1425	X	3.39%
0091 MH181029	57	13	3.20	3.86%	46	27	1.45%	395	X	1.09%
0092 MH181030	47	169	3.59	2.93%	25	24	1.02%	564	X	1.11%
0093 MH181031	38	862	2.96	2.27%	23	19	8545	457	X	1.25%
0094 MH181032	23	1.26%	5.67	1.30%	31	14	1.26%	280	X	1.08%
0095 MH181033	36	23	2.22	1.83%	37	12	5252	306	X	1.12%
0096 MH181034	30	1305	2.94	1.84%	21	13	5209	325	X	8500
0097 MH181035	31	84	2.05	1.66%	35	11	5921	282	X	1.03%
0098 MH181036	28	99	2.29	1.77%	34	12	5007	260	X	9246
0099 MH181037	31	2	2.21	1.55%	31	16	1.06%	336	X	1.04%
0100 MH181038	31	23	2.18	1.95%	28	15	6666	363	X	8301
0101 MH181039	46	241	4.51	3.25%	39	21	7275	531	X	1.07%
0102 MH181040	66	41	4.11	4.70%	29	31	8687	790	X	7728
0103 MH181041	52	5	3.41	4.06%	38	26	8326	686	X	7072
0104 MH181042	43	4	2.93	3.62%	30	23	7427	563	X	7886
0105 MH181043	48	1	3.04	3.87%	44	24	7853	527	X	8213
0106 MH181044	22	45	2.32	1.85%	31	10	2575	300	X	5905
0107 MH181045	24	14	1.63	1.87%	35	9	2440	310	X	5899
0108 MH181046	29	5	1.78	1.89%	51	10	3051	359	X	6492
0109 MH181047	31	8	1.26	2.02%	36	8	2327	230	X	6097
0110 MH181048	31	154	3.59	2.62%	33	20	6229	455	X	6095
0111 MH181049	57	3	3.69	4.98%	31	36	1.13%	529	X	6235
0112 MH181050	14	201	0.23	4.37%	X	5	411	48	X	1.23%
0113 MH181051	51	20	3.17	3.90%	26	30	8893	476	X	8281
0114 MH181052	31	35	2.45	2.51%	31	22	6766	394	X	1.04%
0115 MH181053	X	46	0.66	3.77%	X	8	1051	92	X	3.68%
0116 MH181054	53	59	3.80	5.26%	31	46	9954	649	15	3339
0117 MH181055	53	20	3.68	4.07%	33	33	1.01%	528	X	8948
0118 MH181056	32	5	2.16	2.27%	31	19	5896	296	X	1.01%



ELEMENTS	Ni	P	Pb	S	Sb	Sc	Sn	Sr	Te	Ti
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	1	50	5	50	5	1	5	1	5	5
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	OE	OE	OE	OE	OE	OE	OE	OE	OE
SAMPLE NUMBERS										
0081 MH181019	34	638	30	X	X	15	10	38	X	3655
0082 MH181020	15	514	29	96	X	7	X	54	X	2759
0083 MH181021	29	577	38	1428	X	11	7	42	X	3742
0084 MH181022	31	565	30	1582	X	13	10	41	X	3634
0085 MH181023	14	328	38	4556	X	4	X	20	X	1045
0086 MH181024	X	X	X	X	X	7	X	32	X	1655
0087 MH181025	9	119	9	508	7	11	X	5	X	9402
0088 MH181026	23	511	19	2265	X	8	8	30	X	2791
0089 MH181027	27	522	18	975	X	11	11	41	X	3452
0090 MH181028	2	951	21	1076	X	8	22	33	X	351
0091 MH181029	28	622	27	2536	X	13	11	34	X	2959
0092 MH181030	25	527	35	1489	X	10	9	38	X	3198
0093 MH181031	21	455	34	1922	X	8	5	41	X	2538
0094 MH181032	25	356	1250	3.43%	X	5	9	24	X	938
0095 MH181033	13	396	28	513	X	6	X	40	X	2089
0096 MH181034	14	389	132	6014	X	5	X	34	X	2006
0097 MH181035	13	407	61	1685	X	6	X	35	X	2069
0098 MH181036	13	384	111	3070	X	5	X	36	X	1899
0099 MH181037	14	429	22	X	X	6	5	20	X	2037
0100 MH181038	12	405	112	406	X	6	5	19	X	2110
0101 MH181039	23	459	7018	1.89%	X	10	8	34	X	2598
0102 MH181040	25	535	37	1744	X	13	9	31	X	3671
0103 MH181041	24	493	35	251	X	11	7	37	X	3320
0104 MH181042	22	506	224	402	X	10	7	40	X	2886
0105 MH181043	24	522	108	90	X	10	7	39	X	2999
0106 MH181044	12	327	365	5805	X	3	X	40	X	1495
0107 MH181045	7	319	146	419	X	3	X	45	X	1510
0108 MH181046	7	463	130	200	X	4	X	47	X	2216
0109 MH181047	7	328	272	317	X	3	X	38	X	1547
0110 MH181048	16	395	423	7071	X	6	6	28	X	2060
0111 MH181049	29	554	71	399	X	13	12	19	X	3569
0112 MH181050	11	474	28	608	X	X	X	22	X	222
0113 MH181051	23	547	55	375	X	11	10	21	X	3266
0114 MH181052	16	451	46	577	X	7	9	18	X	2311
0115 MH181053	X	1243	70	1699	X	8	23	29	X	234
0116 MH181054	46	565	184	1766	X	14	16	13	X	3536
0117 MH181055	29	575	24	1287	X	12	9	35	X	3431
0118 MH181056	16	460	27	346	X	6	X	37	X	2253



ELEMENTS	Tl	V	W	Zn
UNITS	ppm	ppm	ppm	ppm
DETECTION LIMIT	5	1	5	1
DIGEST	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	OE	OE	OE
SAMPLE NUMBERS				
0081 MH181019	X	76	6	97
0082 MH181020	X	37	X	59
0083 MH181021	X	57	X	96
0084 MH181022	X	65	6	102
0085 MH181023	X	19	X	37
0086 MH181024	X	33	X	X
0087 MH181025	X	423	X	4
0088 MH181026	X	41	X	58
0089 MH181027	X	54	6	62
0090 MH181028	X	4	X	18
0091 MH181029	X	70	8	62
0092 MH181030	X	51	X	86
0093 MH181031	X	40	5	204
0094 MH181032	X	23	X	1662
0095 MH181033	X	28	X	46
0096 MH181034	X	27	X	259
0097 MH181035	X	27	X	88
0098 MH181036	X	26	X	89
0099 MH181037	X	28	X	56
0100 MH181038	X	28	X	93
0101 MH181039	X	46	X	5470
0102 MH181040	X	61	X	128
0103 MH181041	X	54	5	74
0104 MH181042	X	45	X	245
0105 MH181043	X	48	6	169
0106 MH181044	X	17	X	701
0107 MH181045	X	15	X	140
0108 MH181046	X	19	X	127
0109 MH181047	X	17	X	220
0110 MH181048	X	31	X	1909
0111 MH181049	X	65	5	162
0112 MH181050	10	3	X	328
0113 MH181051	X	54	7	123
0114 MH181052	X	31	X	146
0115 MH181053	X	X	6	18
0116 MH181054	X	75	8	574
0117 MH181055	X	57	6	147
0118 MH181056	X	30	X	74



ELEMENTS	Au	Ag	Al	As	Ba	Bi	Ca	Cd	Ce	Co
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.005	0.5	50	10	2	5	50	0.5	20	1
DIGEST	FA25/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	OE	OE	OE	OE	OE	OE	OE	OE	OE
CHECKS										
0001 MH180982	X	X	4.88%	X	502	X	2523	X	69	5
0002 MH181007	X	X	6.11%	X	384	X	2568	X	76	15
0003 MH181040	X	X	9.37%	12	912	X	2187	X	96	9
0004 MH180964	X	X	6.61%	37	394	X	2030	0.6	82	7
0005 MH180964	X	X	6.62%	35	398	X	2041	0.5	82	5
STANDARDS										
0001 OREAS 121	0.217	X	4.79%	X	1074	X	847	X	48	4
0002 ST693										
0003 OREAS 122	0.316	X	4.73%	X	1058	X	1003	X	41	4
0004 ST710										
0005 OREAS 123	0.577	X	4.57%	X	1024	X	1008	X	47	4
0006 KLEN73914										
0007 OREAS 124		0.9	4.64%	X	1058	X	875	X	46	3
BLANKS										
0001 Control Blank	X	X	66	X	X	X	X	X	X	X
0002 Control Blank	X	X	225	X	X	X	X	X	X	X
0003 Control Blank	X	X	X	X	X	X	X	X	X	X
0004 Control Blank	X	X	132	X	X	X	X	X	X	X



ELEMENTS	Cr	Cu	Fe	K	La	Li	Mg	Mn	Mo	Na
UNITS	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	5	1	0.01	20	20	1	20	1	2	20
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	OE	OE	OE	OE	OE	OE	OE	OE	OE
CHECKS										
0001 MH180982	34	42	2.98	1.83%	34	14	5376	398	X	7330
0002 MH181007	34	40	2.80	1.99%	28	17	1.14%	280	X	8364
0003 MH181040	57	39	3.97	4.57%	45	30	8403	754	X	7508
0004 MH180964	40	23	2.48	2.54%	29	18	5959	325	X	1.10%
0005 MH180964	38	24	2.49	2.54%	27	18	6000	327	X	1.09%
STANDARDS										
0001 OREAS 121	42	X	1.72	2.72%	X	4	2506	828	8	2627
0002 ST693										
0003 OREAS 122	41	1	1.70	2.68%	X	4	2523	786	8	2640
0004 ST710										
0005 OREAS 123	43	4	1.60	2.56%	X	4	2396	759	8	2542
0006 KLEN73914										
0007 OREAS 124	45	5	1.57	2.60%	X	5	2175	704	8	2478
BLANKS										
0001 Control Blank	X	X	X	53	X	X	X	1	X	26
0002 Control Blank	X	X	0.02	X	X	X	36	3	X	37
0003 Control Blank	X	5	X	27	X	X	X	1	X	X
0004 Control Blank	X	X	X	81	X	X	X	2	X	31



ELEMENTS	Ni	P	Pb	S	Sb	Sc	Sn	Sr	Te	Ti
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	1	50	5	50	5	1	5	1	5	5
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	OE	OE	OE	OE	OE	OE	OE	OE	OE
CHECKS										
0001 MH180982	12	372	34	1584	X	6	6	33	X	2065
0002 MH181007	22	490	42	2521	X	7	7	24	X	2146
0003 MH181040	26	519	22	1583	X	13	9	30	X	3531
0004 MH180964	18	435	144	1082	X	8	7	28	X	2285
0005 MH180964	18	436	144	1088	X	8	6	28	X	2318
STANDARDS										
0001 OREAS 121	10	154	16	X	X	3	X	139	X	2604
0002 ST693										
0003 OREAS 122	10	178	16	X	X	3	X	145	X	2549
0004 ST710										
0005 OREAS 123	10	220	18	X	X	3	X	160	X	2484
0006 KLEN73914										
0007 OREAS 124	11	324	20	X	X	3	X	194	X	2593
BLANKS										
0001 Control Blank	X	X	X	X	X	X	X	X	X	X
0002 Control Blank	X	X	X	X	X	X	X	X	X	11
0003 Control Blank	X	X	X	X	X	X	X	X	X	X
0004 Control Blank	X	X	X	X	X	X	X	X	X	8



ELEMENTS	Tl	V	W	Zn
UNITS	ppm	ppm	ppm	ppm
DETECTION LIMIT	5	1	5	1
DIGEST	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	OE	OE	OE
CHECKS				
0001 MH180982	X	28	X	65
0002 MH181007	X	35	X	40
0003 MH181040	X	60	X	114
0004 MH180964	X	39	X	329
0005 MH180964	X	37	X	318
STANDARDS				
0001 OREAS 121	X	21	X	15
0002 ST693				
0003 OREAS 122	X	21	X	15
0004 ST710				
0005 OREAS 123	X	21	X	15
0006 KLEN73914				
0007 OREAS 124	X	22	X	15
BLANKS				
0001 Control Blank	X	X	X	2
0002 Control Blank	X	1	X	X
0003 Control Blank	X	X	X	X
0004 Control Blank	X	X	X	2



METHOD CODE DESCRIPTION

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