

MINERALS TEST REPORT

CLIENT

TODD RIVER METALS PTY LTD

PO Box 2019
SUBIACO, W.A. 6904
AUSTRALIA

JOB INFORMATION

JOB CODE	: 2039.0/1806222
NO. SAMPLES	: 230
NO. ELEMENTS	: 34
CLIENT ORDER NO.	: Q180228 (Job 1 of 1)
SAMPLE SUBMISSION NO.	: 18MH01
PROJECT	: MH
SAMPLE TYPE	: RC Chip
DATE RECEIVED	: 08/05/2018
DATE REPORTED	: 23/05/2018
DATE PRINTED	: 23/05/2018

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	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 WB180001	0.010	X	5.95%	X	416	X	2135	X	90	8
0002 WB180002	X	X	8.62%	X	327	X	1692	X	96	7
0003 WB180003	0.007	X	9.43%	X	363	X	1918	X	96	10
0004 WB180004	0.007	X	9.64%	X	357	X	2508	X	113	8
0005 WB180005	0.007	X	9.71%	X	406	X	1312	X	103	9
0006 WB180006	X	X	6.63%	X	322	X	1950	X	91	7
0007 WB180007	X	X	5.43%	X	188	X	3259	X	81	7
0008 WB180008	0.006	X	8.68%	X	315	X	1705	X	101	9
0009 WB180009	0.007	X	10.07%	X	404	X	1511	X	113	12
0010 WB180010	0.007	X	4.68%	X	160	X	1439	X	74	20
0011 WB180011	X	X	5.49%	X	163	X	4675	X	87	11
0012 WB180012	0.006	X	7.07%	X	396	X	1965	X	88	10
0013 WB180013	X	X	8.83%	X	450	X	1508	X	102	28
0014 WB180014	0.098	X	5.88%	X	299	X	4392	X	119	17
0015 WB180015	0.005	X	6.21%	X	470	X	2426	X	92	17
0016 MH180062	X	X	5.97%	X	397	X	1347	X	102	10
0017 MH180063	X	X	5.64%	X	394	X	1478	X	108	8
0018 MH180064	X	X	8.70%	X	692	X	1733	X	111	15
0019 MH180065	0.014	X	9.09%	X	769	X	1701	X	108	15
0020 MH180066	0.010	X	3.95%	X	285	X	2699	X	81	4
0021 MH180067	X	X	5.80%	X	531	X	2873	X	99	6
0022 MH180068	0.007	X	4.56%	X	412	X	2756	X	84	4
0023 MH180069	0.011	X	6.72%	X	691	X	2658	X	79	9
0024 MH180070	0.008	X	6.26%	X	578	X	3453	X	99	8
0025 MH180071	0.006	X	7.11%	X	653	X	3404	X	96	11
0026 MH180072	X	X	5.77%	X	545	X	3474	X	87	6
0027 MH180073	0.006	X	5.10%	X	539	X	3165	X	86	6
0028 MH180074	0.008	X	6.84%	X	708	X	2799	X	78	7
0029 MH180075	0.007	X	>15.00%	21	57	X	193	X	27	2
0030 MH180076	X	X	9.60%	X	1010	X	4472	X	92	13
0031 MH180077	X	X	5.15%	X	506	X	3086	X	89	6
0032 MH180078	X	X	7.80%	X	846	X	3214	X	106	9
0033 MH180079	X	X	8.82%	X	936	X	2180	X	87	10
0034 MH180080	X	X	6.28%	X	572	X	3101	X	91	8
0035 MH180081	0.007	X	7.19%	X	718	X	3400	X	85	8
0036 MH180082	X	X	6.24%	X	582	X	3706	X	88	8
0037 MH180083	X	X	7.41%	X	748	X	3198	X	94	9
0038 MH180084	X	X	5.23%	X	558	X	3446	X	85	5
0039 MH180085	0.006	X	6.42%	X	517	X	2801	0.7	69	5
0040 MH180086	0.007	X	6.25%	X	455	X	2844	X	59	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										
0001 WB180001	47	19	2.21	1.55%	37	14	6671	287	X	6867
0002 WB180002	61	1	2.02	2.74%	46	17	1.53%	140	X	9391
0003 WB180003	63	10	2.74	3.06%	45	19	1.58%	176	X	7783
0004 WB180004	69	10	2.49	3.12%	41	19	1.57%	140	X	7421
0005 WB180005	66	8	2.46	3.21%	49	18	1.49%	153	3	8543
0006 WB180006	57	4	1.86	2.03%	41	12	1.08%	164	3	8948
0007 WB180007	87	6	1.44	1.26%	37	9	8153	130	8	1.33%
0008 WB180008	62	3	1.95	2.90%	48	19	1.68%	148	X	1.01%
0009 WB180009	67	4	2.23	3.64%	53	23	1.86%	154	X	8976
0010 WB180010	37	7	1.31	1.42%	34	9	8858	100	4	8422
0011 WB180011	52	2	1.75	9951	40	10	8817	185	3	1.77%
0012 WB180012	63	2	2.34	2.35%	40	17	1.22%	223	2	9052
0013 WB180013	71	3	3.08	3.13%	38	21	1.58%	255	X	7778
0014 WB180014	58	4	2.21	1.49%	56	12	9017	218	3	1.31%
0015 WB180015	55	1	2.19	2.00%	41	12	9050	214	3	8975
0016 MH180062	41	8	2.69	2.09%	40	21	5572	341	X	4554
0017 MH180063	39	9	2.36	1.95%	45	17	4356	296	X	6295
0018 MH180064	59	18	3.40	3.72%	53	31	9115	398	X	6264
0019 MH180065	60	12	3.25	3.81%	36	32	9044	386	X	6953
0020 MH180066	23	2	1.39	1.13%	36	11	3008	238	X	1.28%
0021 MH180067	38	3	2.16	2.03%	38	22	5409	339	X	1.42%
0022 MH180068	29	4	1.76	1.25%	38	13	3791	295	X	1.54%
0023 MH180069	46	8	2.53	2.52%	38	30	6593	464	X	1.23%
0024 MH180070	42	7	2.46	2.39%	44	26	6365	443	X	1.36%
0025 MH180071	53	8	2.98	3.00%	38	32	7436	499	X	1.07%
0026 MH180072	40	6	2.32	2.31%	40	23	5309	436	X	1.27%
0027 MH180073	31	1	1.83	2.10%	34	19	4233	317	X	1.20%
0028 MH180074	42	2	2.49	2.98%	36	27	6189	433	X	1.18%
0029 MH180075	172	X	16.52	1779	X	10	247	383	21	173
0030 MH180076	61	17	3.76	4.33%	28	43	1.03%	517	X	9526
0031 MH180077	32	9	1.93	2.07%	38	20	4368	381	X	1.17%
0032 MH180078	52	3	2.94	3.52%	38	34	7494	436	X	1.24%
0033 MH180079	64	51	3.58	3.92%	36	41	9682	516	3	1.08%
0034 MH180080	46	9	2.46	2.59%	42	29	6182	365	X	1.15%
0035 MH180081	54	3	2.80	3.03%	41	33	6943	382	X	1.26%
0036 MH180082	47	4	2.47	2.48%	39	27	5863	364	X	1.39%
0037 MH180083	55	5	2.85	3.28%	42	33	7199	396	X	1.10%
0038 MH180084	35	6	1.96	2.10%	28	19	4424	341	X	1.27%
0039 MH180085	36	6	1.85	2.73%	31	28	4248	419	X	1.54%
0040 MH180086	35	3	1.97	2.52%	28	22	4201	456	X	1.53%



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 WB180001	26	295	17	56	X	7	X	33	X	1802
0002 WB180002	28	503	8	X	X	11	9	18	X	1976
0003 WB180003	34	497	11	X	X	12	9	20	X	1639
0004 WB180004	31	526	10	625	X	13	10	20	X	1790
0005 WB180005	33	471	11	608	X	12	9	16	X	1706
0006 WB180006	28	454	14	92	X	8	6	24	X	1654
0007 WB180007	54	425	14	X	X	6	X	42	X	1194
0008 WB180008	30	531	9	X	X	11	8	18	X	1881
0009 WB180009	31	563	9	X	X	13	9	15	X	1859
0010 WB180010	20	386	14	2250	X	5	X	12	X	1111
0011 WB180011	23	389	12	845	X	6	X	48	X	1786
0012 WB180012	27	449	6	416	X	9	7	22	X	2218
0013 WB180013	31	540	X	1691	X	11	8	15	X	2709
0014 WB180014	26	461	8	1206	X	7	X	49	X	2267
0015 WB180015	24	449	6	1409	X	7	6	27	X	2110
0016 MH180062	22	164	23	61	X	7	5	33	X	2363
0017 MH180063	18	184	30	X	X	6	X	40	X	2232
0018 MH180064	31	326	28	X	X	11	8	44	X	3064
0019 MH180065	31	307	26	X	X	11	9	46	X	2992
0020 MH180066	11	357	15	X	X	3	X	64	X	1482
0021 MH180067	17	399	16	X	X	6	7	69	X	2306
0022 MH180068	6	172	7	X	X	4	X	68	X	1782
0023 MH180069	23	427	27	X	X	8	7	65	X	2437
0024 MH180070	20	488	23	X	X	7	5	69	X	2578
0025 MH180071	24	446	26	X	X	9	7	59	X	2791
0026 MH180072	17	454	28	X	X	6	5	71	X	2398
0027 MH180073	14	418	16	X	X	5	X	68	X	2003
0028 MH180074	19	457	15	X	X	8	6	63	X	2453
0029 MH180075	9	125	11	523	X	12	5	5	X	9778
0030 MH180076	31	541	38	X	X	11	11	57	X	3022
0031 MH180077	14	420	21	X	X	5	X	65	X	2046
0032 MH180078	24	558	20	X	X	9	6	62	X	2839
0033 MH180079	27	517	44	X	X	11	9	40	X	2936
0034 MH180080	19	466	17	X	X	7	5	58	X	2518
0035 MH180081	22	499	13	X	X	8	6	63	X	2857
0036 MH180082	20	467	12	X	X	7	5	67	X	2560
0037 MH180083	25	546	14	X	X	9	7	56	X	2832
0038 MH180084	16	422	16	X	X	5	X	69	X	2011
0039 MH180085	15	522	14	X	X	6	14	53	X	1847
0040 MH180086	14	582	15	X	X	6	14	50	X	1794



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 WB180001	X	44	X	46
0002 WB180002	X	51	X	33
0003 WB180003	X	64	X	37
0004 WB180004	X	63	X	34
0005 WB180005	X	66	X	34
0006 WB180006	X	39	X	33
0007 WB180007	X	28	X	35
0008 WB180008	X	54	6	37
0009 WB180009	X	60	X	41
0010 WB180010	X	24	6	24
0011 WB180011	X	29	7	23
0012 WB180012	X	42	X	30
0013 WB180013	X	55	6	36
0014 WB180014	X	33	7	37
0015 WB180015	X	37	X	31
0016 MH180062	X	40	X	647
0017 MH180063	X	39	X	755
0018 MH180064	X	58	X	1961
0019 MH180065	X	61	5	1828
0020 MH180066	X	16	X	174
0021 MH180067	X	32	X	776
0022 MH180068	X	23	X	558
0023 MH180069	X	39	X	1385
0024 MH180070	X	36	X	502
0025 MH180071	X	45	X	309
0026 MH180072	X	31	X	88
0027 MH180073	X	25	X	52
0028 MH180074	X	37	X	125
0029 MH180075	X	446	X	6
0030 MH180076	X	63	7	1280
0031 MH180077	X	26	X	67
0032 MH180078	X	44	X	188
0033 MH180079	X	56	8	372
0034 MH180080	X	34	X	55
0035 MH180081	X	41	X	54
0036 MH180082	X	35	6	56
0037 MH180083	X	46	5	719
0038 MH180084	X	25	X	439
0039 MH180085	X	26	7	153
0040 MH180086	X	24	7	81



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 MH180087	X	X	5.35%	X	539	X	3202	X	82	5
0042 MH180088	X	X	6.50%	X	620	X	3779	0.9	89	10
0043 MH180089	0.006	X	8.55%	X	849	X	2323	X	86	12
0044 MH180090	0.007	X	5.81%	X	534	X	3018	X	80	7
0045 MH180091	0.007	X	5.54%	X	567	X	3435	X	82	6
0046 MH180092	X	X	5.36%	X	596	X	3349	X	87	5
0047 MH180093	0.006	X	6.88%	X	705	X	3063	X	78	9
0048 MH180094	0.007	X	5.22%	X	554	X	3142	X	79	6
0049 MH180095	0.006	X	5.44%	X	573	X	3248	X	88	5
0050 MH180096	0.006	X	7.53%	X	732	X	2587	X	89	10
0051 MH180097	0.006	X	5.57%	X	516	X	3176	X	81	7
0052 MH180098	X	X	5.21%	X	471	X	3339	X	79	5
0053 MH180099	0.006	X	7.78%	X	691	X	2324	X	89	9
0054 MH180100	0.356	X	5.16%	X	13	X	1360	0.8	X	1
0055 MH180101	0.008	X	7.98%	X	651	X	2307	X	85	9
0056 MH180102	0.007	X	8.12%	X	720	X	3042	X	91	8
0057 MH180103	X	X	9.09%	X	808	X	2151	0.9	91	14
0058 MH180104	X	X	5.78%	X	343	X	2195	X	99	9
0059 MH180105	X	X	5.03%	X	341	X	2641	X	78	4
0060 MH180106	0.005	X	5.46%	X	407	X	2746	X	83	6
0061 MH180107	0.025	X	8.23%	X	749	X	2073	0.6	102	13
0062 MH180108	X	X	5.63%	X	471	X	2924	X	83	8
0063 MH180109	0.010	X	6.79%	X	603	X	2467	X	86	9
0064 MH180110	0.014	X	5.77%	X	489	X	2564	X	93	6
0065 MH180111	X	X	4.92%	X	381	X	3021	X	88	6
0066 MH180116	X	X	7.81%	X	509	X	2299	0.5	54	9
0067 MH180122	X	X	7.11%	X	518	X	2975	X	92	9
0068 MH180128	X	X	6.56%	X	326	X	1839	X	83	19
0069 MH180133	0.006	X	8.53%	X	666	X	1939	X	89	9
0070 MH180138	0.011	X	6.43%	X	629	X	2879	X	95	8
0071 MH180143	X	X	8.65%	X	841	X	1873	X	100	11
0072 MH180145	X	X	8.58%	X	799	X	1943	X	90	11
0073 MH180146	X	X	7.07%	X	575	X	2987	X	86	7
0074 MH180147	0.007	X	8.81%	X	785	X	1943	X	86	9
0075 MH180148	0.006	X	9.40%	X	765	X	1669	X	88	10
0076 MH180149	0.009	X	5.69%	X	209	X	2685	X	55	4
0077 MH180150	0.025	X	>15.00%	21	53	X	182	X	24	X
0078 MH180151	X	X	7.49%	X	107	X	3831	X	X	1
0079 MH180152	0.006	X	7.78%	10	38	X	3187	X	X	10
0080 MH180153	X	X	7.71%	X	109	X	2089	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
SAMPLE NUMBERS										
0041 MH180087	38	3	2.08	2.17%	37	20	4635	370	X	1.21%
0042 MH180088	47	9	2.63	2.84%	40	27	6795	462	X	9362
0043 MH180089	63	11	3.42	4.20%	33	38	1.04%	404	X	7307
0044 MH180090	42	4	2.19	2.49%	26	23	5405	315	X	1.02%
0045 MH180091	39	3	2.15	2.30%	36	22	4991	357	X	1.22%
0046 MH180092	37	3	1.96	2.37%	38	19	4507	342	X	1.22%
0047 MH180093	51	7	2.69	3.11%	37	28	6711	403	X	1.12%
0048 MH180094	38	3	1.90	2.27%	30	19	4525	288	X	1.19%
0049 MH180095	42	4	2.00	2.34%	32	19	4682	302	X	1.24%
0050 MH180096	55	20	2.81	3.21%	41	30	7457	344	X	1.02%
0051 MH180097	40	21	2.01	1.99%	36	20	4899	291	X	1.33%
0052 MH180098	36	4	2.30	1.77%	37	16	4321	292	4	1.33%
0053 MH180099	56	17	3.12	3.60%	36	30	7737	380	X	8675
0054 MH180100	17	216	0.23	4.77%	X	4	416	50	X	1.28%
0055 MH180101	57	61	3.02	3.65%	32	29	7688	395	X	7473
0056 MH180102	54	17	3.09	3.46%	30	27	8071	470	X	9441
0057 MH180103	71	7	4.21	4.21%	35	36	1.08%	596	X	7718
0058 MH180104	39	5	2.64	2.03%	46	23	8790	423	X	1.04%
0059 MH180105	44	3	2.26	1.43%	35	13	5340	311	12	1.33%
0060 MH180106	43	1	2.31	1.66%	38	15	6013	364	2	1.41%
0061 MH180107	64	X	3.82	3.27%	38	29	1.03%	722	X	1.01%
0062 MH180108	41	4	2.21	1.90%	38	15	5097	345	2	1.30%
0063 MH180109	49	6	2.81	2.57%	36	22	7122	467	X	1.29%
0064 MH180110	41	2	2.25	2.13%	35	16	5229	388	X	1.26%
0065 MH180111	35	5	2.05	1.64%	32	12	4239	359	2	1.33%
0066 MH180116	49	21	2.73	3.06%	22	28	6460	517	X	1.73%
0067 MH180122	59	8	3.05	2.81%	39	20	7729	391	X	1.22%
0068 MH180128	47	4	2.17	2.33%	38	18	1.03%	200	X	9934
0069 MH180133	58	2	3.12	3.42%	41	24	9740	397	X	1.02%
0070 MH180138	48	4	2.45	2.35%	41	17	6857	420	X	1.36%
0071 MH180143	72	X	4.27	3.99%	41	28	9787	875	3	7973
0072 MH180145	62	X	3.36	3.74%	40	23	8981	574	X	8169
0073 MH180146	56	1	2.89	2.84%	37	18	6810	555	X	1.14%
0074 MH180147	64	X	3.32	4.18%	38	26	8834	595	X	7359
0075 MH180148	75	X	4.81	4.77%	39	41	1.11%	817	X	6761
0076 MH180149	32	2	2.18	1.76%	24	13	4517	403	2	1.96%
0077 MH180150	173	4	15.94	1740	X	10	213	361	20	146
0078 MH180151	18	3	1.07	1.56%	X	7	1770	233	3	3.72%
0079 MH180152	17	4	0.83	1.82%	X	7	1492	194	3	3.54%
0080 MH180153	17	3	0.66	3.29%	X	2	662	165	3	3.44%



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 MH180087	16	415	15	X	X	6	X	64	X	2175
0042 MH180088	24	466	57	X	X	8	7	51	X	2563
0043 MH180089	31	548	22	X	X	11	9	33	X	3092
0044 MH180090	18	432	28	X	X	7	X	58	X	2308
0045 MH180091	17	431	20	X	X	6	7	64	X	2280
0046 MH180092	15	422	26	X	X	5	X	70	X	2131
0047 MH180093	22	473	23	X	X	8	6	57	X	2560
0048 MH180094	16	419	28	X	X	5	X	63	X	2137
0049 MH180095	16	429	29	X	X	6	X	65	X	2184
0050 MH180096	27	479	19	X	X	9	13	45	X	2860
0051 MH180097	17	414	62	X	X	6	9	64	X	2075
0052 MH180098	15	407	23	X	X	5	X	67	X	1988
0053 MH180099	25	490	16	X	X	9	10	41	X	2878
0054 MH180100	12	506	29	623	X	X	X	22	X	237
0055 MH180101	25	470	17	X	X	10	14	41	X	2723
0056 MH180102	25	501	19	X	X	10	16	48	X	2819
0057 MH180103	34	516	15	X	X	12	22	34	X	3757
0058 MH180104	16	462	16	X	X	6	20	34	X	2401
0059 MH180105	17	401	16	85	X	5	8	46	X	1946
0060 MH180106	17	441	17	X	X	6	7	47	X	2335
0061 MH180107	30	527	17	X	X	11	13	30	X	3410
0062 MH180108	18	444	17	X	X	6	5	53	X	2259
0063 MH180109	22	499	19	X	X	8	7	44	X	2761
0064 MH180110	18	461	20	X	X	6	6	47	X	2405
0065 MH180111	14	423	38	X	X	5	X	64	X	2126
0066 MH180116	22	598	18	186	X	9	22	36	X	2354
0067 MH180122	25	491	16	404	X	9	7	44	X	3229
0068 MH180128	20	427	20	668	X	7	5	28	X	2075
0069 MH180133	25	518	18	74	X	10	7	33	X	2819
0070 MH180138	19	482	28	X	X	7	6	56	X	2531
0071 MH180143	32	550	43	101	X	12	16	29	X	3951
0072 MH180145	26	492	20	X	X	11	9	35	X	3118
0073 MH180146	24	482	16	X	X	8	6	48	X	2752
0074 MH180147	29	494	18	51	X	11	15	32	X	2932
0075 MH180148	30	498	12	100	X	13	23	30	X	3422
0076 MH180149	12	814	16	1140	X	4	24	34	X	1507
0077 MH180150	9	120	10	500	X	11	X	5	X	9556
0078 MH180151	6	1906	36	552	X	X	48	24	X	340
0079 MH180152	5	1722	23	477	X	2	57	19	X	102
0080 MH180153	4	1230	193	302	X	4	23	22	X	92



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 MH180087	X	28	X	58
0042 MH180088	X	39	X	1353
0043 MH180089	X	55	7	1437
0044 MH180090	X	33	5	120
0045 MH180091	X	30	X	112
0046 MH180092	X	26	5	60
0047 MH180093	X	41	6	207
0048 MH180094	X	28	X	55
0049 MH180095	X	26	5	57
0050 MH180096	X	46	6	1878
0051 MH180097	X	28	X	129
0052 MH180098	X	25	X	82
0053 MH180099	X	47	X	113
0054 MH180100	10	1	X	351
0055 MH180101	X	46	8	98
0056 MH180102	X	46	5	274
0057 MH180103	X	62	7	678
0058 MH180104	X	29	5	301
0059 MH180105	X	25	6	69
0060 MH180106	X	31	5	46
0061 MH180107	X	56	6	523
0062 MH180108	X	31	5	529
0063 MH180109	X	42	X	638
0064 MH180110	X	32	X	58
0065 MH180111	X	25	X	53
0066 MH180116	X	37	6	566
0067 MH180122	X	43	6	73
0068 MH180128	X	37	X	85
0069 MH180133	X	52	6	97
0070 MH180138	X	38	X	106
0071 MH180143	X	62	6	148
0072 MH180145	X	54	X	95
0073 MH180146	X	43	X	72
0074 MH180147	X	57	5	112
0075 MH180148	X	66	6	137
0076 MH180149	X	19	8	58
0077 MH180150	X	446	X	5
0078 MH180151	X	4	6	38
0079 MH180152	X	X	9	25
0080 MH180153	X	X	8	24



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 MH180154	X	X	7.46%	X	109	X	2308	X	X	3
0082 MH180155	0.009	X	7.33%	X	91	X	2486	X	X	3
0083 MH180156	X	X	7.81%	X	30	X	2155	X	X	2
0084 MH180157	X	X	7.66%	X	41	X	2129	X	X	X
0085 MH180158	0.006	X	7.54%	X	61	X	1947	X	X	2
0086 MH180159	X	X	7.45%	X	61	X	1841	X	X	9
0087 MH180160	X	X	7.18%	19	42	X	1914	X	X	27
0088 MH180161	X	X	7.59%	X	69	X	1929	X	X	4
0089 MH180162	X	X	7.46%	X	53	X	1875	X	X	3
0090 MH180163	X	X	6.98%	X	53	X	2215	X	X	4
0091 MH180164	X	X	7.16%	X	39	X	2183	X	X	5
0092 MH180165	X	X	6.98%	21	42	X	2213	X	X	17
0093 MH180166	0.016	0.6	6.63%	28	66	X	3210	X	X	7
0094 MH180167	0.017	1.2	7.45%	X	52	X	2899	X	X	5
0095 MH180168	0.010	X	8.99%	X	236	X	2697	X	95	14
0096 MH180169	0.009	X	7.28%	74	105	X	4252	X	X	72
0097 MH180170	X	X	9.40%	13	188	X	3056	X	26	23
0098 MH180171	0.032	X	6.38%	50	54	X	3321	X	X	55
0099 MH180172	X	X	6.56%	28	39	X	3507	X	X	44
0100 MH180173	X	X	5.78%	X	24	X	2163	X	X	6
0101 MH180174	X	X	7.05%	X	33	X	2231	X	X	11
0102 MH180175	0.014	X	5.90%	13	29	X	1.74%	X	X	27
0103 MH180176	0.006	X	7.70%	10	37	X	3949	X	X	14
0104 MH180177	X	X	6.70%	27	41	X	4201	X	X	35
0105 MH180178	X	X	7.69%	15	279	X	2435	X	69	22
0106 MH180179	X	1.4	6.81%	X	383	6	2249	2.6	80	14
0107 MH180180	X	0.6	7.74%	X	578	X	2459	2.7	76	11
0108 MH180181	X	X	5.56%	X	352	X	2360	1.1	76	9
0109 MH180182	X	X	5.06%	X	297	X	2584	X	72	8
0110 MH180183	X	X	5.01%	X	239	X	2251	X	70	5
0111 MH180184	X	X	6.59%	X	345	X	1319	X	73	11
0112 MH180185	X	X	5.30%	X	245	X	1628	X	69	11
0113 MH180186	X	X	5.02%	X	281	X	2105	X	67	6
0114 MH180187	X	X	5.53%	X	500	X	1431	X	68	11
0115 MH180188	X	X	9.48%	X	1024	X	1434	X	93	10
0116 MH180189	X	X	7.25%	X	734	X	1919	X	84	7
0117 MH180194	X	X	5.73%	X	461	X	2200	X	78	7
0118 MH180199	X	X	5.47%	X	467	X	3039	0.9	72	7
0119 MH180206	X	X	10.43%	X	823	X	1312	X	102	14
0120 MH180211	X	1.3	4.29%	X	250	X	2146	X	56	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										
0081 MH180154	17	14	0.76	2.26%	X	5	954	171	3	3.40%
0082 MH180155	16	17	0.74	1.83%	X	4	836	169	3	3.78%
0083 MH180156	12	8	0.61	1.45%	X	4	627	220	2	4.41%
0084 MH180157	12	6	0.97	1.98%	X	4	661	2100	2	3.89%
0085 MH180158	15	6	1.06	2.47%	X	4	782	835	3	3.55%
0086 MH180159	14	3	0.96	2.68%	X	5	1206	857	4	3.25%
0087 MH180160	17	5	0.91	1.85%	X	6	1961	229	3	3.76%
0088 MH180161	15	3	0.85	2.59%	X	6	1443	576	3	3.58%
0089 MH180162	18	5	0.95	2.01%	X	6	1463	316	3	3.66%
0090 MH180163	16	8	0.72	1.56%	X	6	1709	215	2	3.78%
0091 MH180164	16	12	0.75	1.38%	X	7	2143	201	3	3.85%
0092 MH180165	11	28	1.26	1.48%	X	12	6420	231	X	3.20%
0093 MH180166	12	1597	2.25	1.27%	X	22	1.55%	405	3	2.44%
0094 MH180167	17	2714	1.46	9467	X	8	4767	162	3	4.34%
0095 MH180168	48	416	3.77	2.03%	40	43	3.43%	612	8	2.05%
0096 MH180169	13	82	2.33	1.60%	X	21	1.57%	301	5	2.71%
0097 MH180170	20	744	1.79	1.91%	X	24	1.43%	276	17	3.98%
0098 MH180171	12	269	1.25	8695	X	7	4762	147	6	3.82%
0099 MH180172	13	62	1.37	8043	X	8	5569	185	3	3.97%
0100 MH180173	16	25	0.75	7252	X	4	2374	118	5	3.70%
0101 MH180174	14	12	1.12	1.38%	X	8	4572	191	6	3.48%
0102 MH180175	57	37	2.73	3.78%	X	5	8126	362	9	1.53%
0103 MH180176	13	7	0.82	9980	X	5	2507	175	6	4.85%
0104 MH180177	15	13	1.25	1.20%	X	8	3612	229	3	3.91%
0105 MH180178	44	6	2.06	3.08%	32	25	1.16%	347	X	1.54%
0106 MH180179	49	637	3.21	2.86%	35	35	1.08%	486	X	1.36%
0107 MH180180	60	260	3.59	3.30%	31	36	8335	571	X	1.28%
0108 MH180181	53	150	3.15	1.61%	35	16	6919	443	4	1.29%
0109 MH180182	49	91	2.62	1.35%	28	14	7419	322	X	1.32%
0110 MH180183	40	5	2.97	1.27%	28	17	8949	391	X	1.24%
0111 MH180184	45	23	3.18	2.44%	31	25	1.17%	530	X	9669
0112 MH180185	41	232	3.29	1.42%	29	19	9905	491	X	1.29%
0113 MH180186	40	359	2.64	1.27%	32	14	7706	349	X	1.20%
0114 MH180187	48	63	2.46	1.93%	32	15	7247	297	X	7909
0115 MH180188	64	5	3.79	3.76%	41	31	1.33%	463	X	5751
0116 MH180189	50	10	2.94	2.66%	34	22	9616	369	X	8649
0117 MH180194	42	9	2.27	2.24%	29	16	6495	284	X	9862
0118 MH180199	40	47	2.40	1.97%	35	15	4944	317	X	1.15%
0119 MH180206	65	23	4.37	4.67%	44	29	1.16%	691	X	4494
0120 MH180211	32	3	1.65	1.25%	26	8	4048	230	X	1.33%



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 MH180154	4	991	263	1563	X	6	29	19	X	124
0082 MH180155	4	1033	512	1607	X	4	24	20	X	104
0083 MH180156	3	950	66	617	X	6	23	13	X	111
0084 MH180157	3	1044	94	592	X	4	20	12	X	79
0085 MH180158	4	957	76	649	X	4	22	13	X	92
0086 MH180159	5	915	61	651	X	5	22	11	X	88
0087 MH180160	8	894	141	1851	X	4	20	10	X	103
0088 MH180161	4	954	61	637	X	4	23	11	X	107
0089 MH180162	4	879	59	617	X	5	22	11	X	130
0090 MH180163	3	1010	257	669	X	4	22	12	X	101
0091 MH180164	4	948	64	526	X	4	22	15	X	96
0092 MH180165	7	947	145	753	X	3	25	16	X	87
0093 MH180166	8	1368	34	3904	X	1	25	12	X	49
0094 MH180167	4	1165	25	5561	X	2	28	20	X	98
0095 MH180168	21	1187	32	1.14%	X	8	41	17	X	844
0096 MH180169	12	1878	17	7224	X	1	42	13	X	107
0097 MH180170	10	1273	58	4746	X	3	43	18	X	546
0098 MH180171	6	1561	43	4462	X	X	21	17	X	42
0099 MH180172	7	1678	40	4171	X	X	24	17	X	26
0100 MH180173	5	1024	25	870	X	2	17	13	X	64
0101 MH180174	6	998	26	1359	X	4	32	13	X	117
0102 MH180175	33	594	33	169	X	8	X	70	X	3194
0103 MH180176	4	1979	34	1289	X	X	31	16	X	33
0104 MH180177	6	2193	214	2985	X	X	51	15	X	43
0105 MH180178	17	1034	68	1758	X	8	63	15	X	1673
0106 MH180179	19	581	984	5496	X	8	49	28	X	1993
0107 MH180180	27	452	944	2554	X	10	36	35	X	2982
0108 MH180181	19	413	345	1441	X	6	9	29	X	2287
0109 MH180182	17	379	238	635	X	6	6	31	X	2079
0110 MH180183	17	388	59	105	X	6	X	27	X	2074
0111 MH180184	20	440	89	1294	X	8	28	14	X	2504
0112 MH180185	19	375	258	4393	X	6	13	20	X	2083
0113 MH180186	15	382	120	1735	X	6	6	27	X	1908
0114 MH180187	19	395	100	2069	X	7	11	16	X	2004
0115 MH180188	30	537	22	395	X	12	25	16	X	3136
0116 MH180189	22	469	23	206	X	9	23	22	X	2650
0117 MH180194	16	416	28	317	X	6	20	28	X	2134
0118 MH180199	16	398	631	870	X	6	10	42	X	2144
0119 MH180206	33	476	43	271	X	14	16	16	X	3221
0120 MH180211	10	375	38	63	X	3	11	28	X	1317



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 MH180154	X	X	10	77
0082 MH180155	X	X	11	233
0083 MH180156	X	X	10	27
0084 MH180157	X	X	9	32
0085 MH180158	X	X	10	33
0086 MH180159	X	X	15	38
0087 MH180160	X	X	10	50
0088 MH180161	X	X	9	31
0089 MH180162	X	X	11	30
0090 MH180163	X	X	9	81
0091 MH180164	X	X	8	26
0092 MH180165	X	X	7	61
0093 MH180166	X	X	10	213
0094 MH180167	X	X	9	243
0095 MH180168	X	38	13	157
0096 MH180169	X	3	13	65
0097 MH180170	X	15	12	72
0098 MH180171	X	X	10	38
0099 MH180172	X	X	8	39
0100 MH180173	X	X	8	22
0101 MH180174	X	X	11	32
0102 MH180175	5	67	X	60
0103 MH180176	X	X	6	20
0104 MH180177	X	X	7	89
0105 MH180178	X	35	11	98
0106 MH180179	X	37	7	1920
0107 MH180180	X	50	6	1623
0108 MH180181	X	31	8	655
0109 MH180182	X	28	9	134
0110 MH180183	X	28	6	94
0111 MH180184	X	41	9	123
0112 MH180185	X	33	X	150
0113 MH180186	X	30	7	107
0114 MH180187	X	35	9	53
0115 MH180188	X	64	9	69
0116 MH180189	X	45	9	54
0117 MH180194	X	33	7	46
0118 MH180199	X	31	6	607
0119 MH180206	X	68	8	107
0120 MH180211	X	17	6	28



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										
0121 MH180216	X	X	9.09%	X	656	X	2056	0.6	90	12
0122 MH180221	X	X	9.75%	X	662	X	2005	X	105	13
0123 MH180222	X	X	6.20%	X	536	X	1390	X	83	8
0124 MH180223	X	X	5.48%	X	820	X	2220	X	89	7
0125 MH180224	X	X	5.59%	X	781	X	2503	X	89	7
0126 MH180225	0.510	2.4	7.20%	55	1087	X	3.75%	1.9	114	26
0127 MH180226	X	X	5.80%	X	596	X	2933	X	82	6
0128 MH180227	X	X	5.77%	X	556	X	3485	X	83	7
0129 MH180228	X	X	5.84%	X	632	X	6137	X	93	9
0130 MH180229	X	X	6.08%	X	552	X	2725	X	82	8
0131 MH180230	X	X	6.03%	X	532	X	2667	X	85	7
0132 MH180231	X	X	6.13%	X	549	X	2590	X	85	8
0133 MH180232	X	X	6.11%	X	523	X	2911	X	81	12
0134 MH180233	X	X	7.05%	X	688	X	4263	X	87	10
0135 MH180234	X	X	7.76%	X	836	X	2901	X	107	10
0136 MH180235	X	X	6.58%	X	706	X	3337	X	76	10
0137 MH180236	X	X	5.82%	X	576	X	4872	X	84	12
0138 MH180237	X	X	5.62%	X	555	X	7589	X	84	15
0139 MH180238	X	X	5.21%	X	522	X	3708	X	103	11
0140 MH180239	0.006	X	5.80%	X	612	X	7767	0.5	101	11
0141 MH180240	X	X	5.91%	X	610	X	3678	X	85	6
0142 MH180241	X	X	5.85%	X	634	X	5513	1.5	88	8
0143 MH180242	X	X	6.16%	X	664	X	3304	X	93	11
0144 MH180243	X	X	5.35%	X	550	X	4451	0.8	89	7
0145 MH180244	X	X	5.68%	X	571	X	6564	1.2	86	12
0146 MH180245	X	X	8.10%	X	918	X	3584	X	90	15
0147 MH180246	X	X	8.16%	X	936	X	2777	X	91	16
0148 MH180247	X	X	6.77%	X	753	X	2499	X	83	13
0149 MH180248	X	X	6.37%	X	642	X	3931	X	76	14
0150 MH180249	X	X	5.59%	X	341	X	5633	0.5	72	17
0151 MH180250	X	X	>15.00%	18	52	X	177	X	27	1
0152 MH180251	X	X	6.83%	X	723	X	2153	X	88	11
0153 MH180252	X	X	7.17%	X	762	X	2996	X	88	12
0154 MH180253	X	1.4	6.55%	X	380	X	5276	1.1	90	28
0155 MH180254	0.006	0.6	5.94%	X	593	X	2630	X	82	10
0156 MH180255	X	1.2	7.63%	X	804	10	1872	X	91	10
0157 MH180256	X	X	6.69%	X	587	17	4941	0.8	87	9
0158 MH180257	X	X	7.77%	X	677	X	2422	X	92	11
0159 MH180258	X	X	9.04%	X	575	X	5415	X	90	20
0160 MH180259	X	X	8.44%	X	448	X	6662	2.1	89	19



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										
0121 MH180216	71	303	4.07	3.94%	39	24	1.12%	535	X	5049
0122 MH180221	71	1	3.38	4.44%	45	22	1.04%	455	X	5624
0123 MH180222	55	196	3.51	2.19%	31	19	5753	334	12	1373
0124 MH180223	41	153	2.72	2.03%	33	15	6199	290	3	3414
0125 MH180224	39	126	2.27	2.18%	43	13	6428	246	X	5661
0126 MH180225	153	3598	5.74	2.11%	50	9	1.80%	809	58	2.17%
0127 MH180226	39	229	2.37	2.21%	27	15	6631	237	X	5415
0128 MH180227	38	172	2.52	2.15%	29	16	7873	255	X	5304
0129 MH180228	38	138	2.48	2.14%	41	15	8756	349	X	6378
0130 MH180229	36	160	2.53	2.12%	38	17	8989	331	X	7246
0131 MH180230	49	218	2.48	2.10%	42	16	8669	299	X	7399
0132 MH180231	40	302	2.48	2.16%	29	16	8492	297	X	7106
0133 MH180232	39	412	2.46	2.06%	31	16	8386	305	X	8209
0134 MH180233	49	325	2.77	2.72%	30	20	9840	309	X	6631
0135 MH180234	54	319	2.87	3.30%	47	22	9958	326	X	5165
0136 MH180235	44	200	2.64	2.83%	35	19	8480	285	X	4515
0137 MH180236	34	460	2.16	2.41%	38	15	6713	232	X	4891
0138 MH180237	33	581	2.21	2.35%	38	14	7336	238	X	5038
0139 MH180238	35	98	2.19	2.13%	48	13	6032	296	X	6393
0140 MH180239	38	280	2.42	2.50%	40	15	7570	343	X	5944
0141 MH180240	36	70	2.43	2.40%	40	15	5980	298	X	8359
0142 MH180241	39	99	2.34	2.48%	39	16	6155	307	X	7355
0143 MH180242	40	167	2.41	2.64%	44	18	7001	306	X	6841
0144 MH180243	33	466	2.27	2.31%	36	15	6832	253	X	6119
0145 MH180244	34	1113	2.36	2.37%	40	15	6427	249	X	7328
0146 MH180245	54	952	3.00	3.58%	37	23	8285	343	X	8229
0147 MH180246	61	569	3.52	3.84%	29	27	1.08%	392	X	6428
0148 MH180247	48	295	3.01	3.05%	36	22	8901	328	X	5730
0149 MH180248	42	504	2.66	2.64%	27	18	7839	288	X	8734
0150 MH180249	34	522	2.88	1.65%	28	15	9779	423	X	1.10%
0151 MH180250	167	4	16.29	1610	X	10	213	357	17	105
0152 MH180251	46	68	2.82	2.97%	41	19	7999	363	X	4248
0153 MH180252	48	50	3.07	3.11%	33	20	8443	408	X	7015
0154 MH180253	33	51	5.91	1.91%	40	26	1.52%	1092	X	9938
0155 MH180254	36	130	2.79	2.17%	36	15	7466	447	X	7003
0156 MH180255	45	285	3.99	3.33%	40	24	9905	582	X	4657
0157 MH180256	41	198	2.67	2.63%	32	18	6877	365	X	8528
0158 MH180257	49	86	2.97	3.37%	43	23	8988	420	X	6240
0159 MH180258	61	64	4.01	3.23%	38	25	1.33%	503	X	9367
0160 MH180259	56	36	4.46	2.40%	38	24	1.80%	526	X	9539



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										
0121 MH180216	32	545	22	946	X	12	12	18	X	3427
0122 MH180221	32	557	21	53	X	13	10	24	X	3874
0123 MH180222	21	127	21	147	X	8	7	25	X	2661
0124 MH180223	22	269	16	134	X	6	X	30	X	2292
0125 MH180224	21	394	20	73	X	6	6	35	X	2333
0126 MH180225	2161	948	2030	3938	X	17	X	263	X	6863
0127 MH180226	26	377	32	X	X	7	6	34	X	2444
0128 MH180227	20	358	23	94	X	7	X	33	X	2427
0129 MH180228	20	395	15	X	X	7	6	33	X	2366
0130 MH180229	20	427	14	X	X	7	6	32	X	2463
0131 MH180230	20	434	11	X	X	7	X	32	X	2460
0132 MH180231	21	447	18	X	X	7	5	34	X	2503
0133 MH180232	21	447	26	X	X	7	6	38	X	2507
0134 MH180233	22	450	14	X	X	9	7	35	X	2849
0135 MH180234	21	512	11	X	X	10	8	29	X	3046
0136 MH180235	21	450	13	122	X	8	7	28	X	2499
0137 MH180236	19	470	27	X	X	6	6	30	X	2326
0138 MH180237	20	474	59	X	X	6	X	41	X	2289
0139 MH180238	18	468	29	X	X	6	5	36	X	2542
0140 MH180239	19	495	77	X	X	7	6	40	X	2599
0141 MH180240	17	448	22	X	X	7	6	46	X	2390
0142 MH180241	18	460	43	X	X	7	6	43	X	2407
0143 MH180242	20	476	35	X	X	7	7	36	X	2455
0144 MH180243	16	453	91	X	X	6	6	28	X	2188
0145 MH180244	19	449	331	X	X	6	7	40	X	2202
0146 MH180245	25	537	126	X	X	10	10	45	X	3161
0147 MH180246	31	505	87	X	X	11	12	34	X	3522
0148 MH180247	24	448	58	X	X	8	11	29	X	2823
0149 MH180248	24	444	82	X	X	8	10	48	X	2642
0150 MH180249	26	445	216	X	X	8	X	57	X	2473
0151 MH180250	8	121	9	620	X	11	X	5	X	9447
0152 MH180251	22	477	86	X	X	8	5	22	X	2586
0153 MH180252	23	504	120	X	X	9	6	30	X	2991
0154 MH180253	23	829	700	X	X	16	X	58	X	6175
0155 MH180254	19	498	208	X	X	7	5	29	X	2372
0156 MH180255	22	488	397	X	X	9	8	20	X	2638
0157 MH180256	19	469	157	X	X	8	6	32	X	2446
0158 MH180257	23	519	111	X	X	9	8	25	X	2811
0159 MH180258	35	526	100	X	X	13	7	66	X	3444
0160 MH180259	44	560	71	X	X	15	5	64	X	3638



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				
0121 MH180216	X	62	11	187
0122 MH180221	X	68	8	70
0123 MH180222	X	49	6	61
0124 MH180223	X	38	X	44
0125 MH180224	X	37	X	56
0126 MH180225	X	141	X	1054
0127 MH180226	X	39	X	111
0128 MH180227	X	40	5	65
0129 MH180228	X	37	X	46
0130 MH180229	X	37	X	61
0131 MH180230	X	35	X	141
0132 MH180231	X	37	X	274
0133 MH180232	X	36	5	439
0134 MH180233	X	47	6	298
0135 MH180234	X	53	X	249
0136 MH180235	X	43	X	354
0137 MH180236	X	34	X	1081
0138 MH180237	X	34	X	1484
0139 MH180238	X	32	5	624
0140 MH180239	X	37	5	534
0141 MH180240	X	35	5	307
0142 MH180241	X	35	X	306
0143 MH180242	X	36	X	371
0144 MH180243	X	35	X	423
0145 MH180244	X	80	X	767
0146 MH180245	X	61	5	805
0147 MH180246	X	61	6	737
0148 MH180247	X	44	X	507
0149 MH180248	X	41	X	959
0150 MH180249	X	49	X	1219
0151 MH180250	X	436	X	5
0152 MH180251	X	44	X	520
0153 MH180252	X	48	X	437
0154 MH180253	X	104	X	1203
0155 MH180254	X	36	X	1017
0156 MH180255	X	47	6	1074
0157 MH180256	X	41	X	868
0158 MH180257	X	49	5	723
0159 MH180258	X	71	X	935
0160 MH180259	X	81	X	1012



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										
0161 MH180260	X	X	5.94%	X	434	X	2641	X	71	8
0162 MH180261	X	X	7.41%	X	567	X	2186	X	88	13
0163 MH180262	X	X	8.99%	11	715	X	1622	X	97	14
0164 MH180263	0.008	X	8.09%	X	701	X	1877	X	98	12
0165 MH180264	X	X	8.70%	X	754	X	1967	X	96	14
0166 MH180265	X	X	6.30%	X	557	X	2973	X	97	7
0167 MH180266	X	X	6.87%	X	756	X	1990	X	96	9
0168 MH180267	0.017	1.2	6.44%	X	447	32	2883	X	64	8
0169 MH180268	X	X	7.42%	X	385	X	3934	X	32	4
0170 MH180269	X	X	7.32%	X	406	X	5040	X	44	5
0171 MH180270	X	X	9.20%	X	918	X	1456	1.7	93	12
0172 MH180271	0.535	3.8	4.85%	X	324	151	1572	1.9	66	18
0173 MH180272	0.009	X	5.47%	X	592	X	1673	X	78	9
0174 MH180273	X	X	5.40%	X	588	X	1483	0.6	77	10
0175 MH180274	X	X	4.94%	X	437	X	1881	X	81	9
0176 MH180275	0.355	0.6	5.12%	X	10	X	1331	0.7	X	2
0177 MH180276	X	X	6.08%	X	627	X	1728	X	87	8
0178 MH180277	X	X	7.09%	X	896	X	1914	X	90	10
0179 MH180278	X	X	6.24%	X	739	X	2240	X	94	9
0180 MH180279	X	X	5.93%	X	691	X	1786	X	85	7
0181 MH180280	0.005	X	5.93%	X	671	X	1607	X	79	5
0182 MH180281	X	X	8.53%	X	985	X	1248	X	102	11
0183 MH180282	X	X	10.93%	X	1324	X	1275	X	99	13
0184 MH180283	X	X	10.23%	X	1362	X	1333	X	103	13
0185 MH180284	X	X	6.12%	X	728	X	1524	X	88	7
0186 MH180285	0.005	X	5.95%	11	442	28	2268	X	87	33
0187 MH180286	0.006	X	2.30%	X	295	15	377	X	42	8
0188 MH180287	X	X	7.35%	X	787	X	1179	X	87	11
0189 MH180288	X	X	7.52%	X	663	X	1295	X	95	13
0190 MH180289	0.008	X	9.77%	X	711	X	1474	X	102	18
0191 MH180290	X	X	8.53%	X	561	X	1613	X	103	12
0192 MH180291	X	X	6.66%	X	410	X	1807	X	95	8
0193 MH180296	X	X	8.81%	X	488	X	1501	X	103	9
0194 MH180302	X	X	5.21%	X	97	X	1734	X	155	18
0195 MH180307	X	X	3.57%	X	211	X	1080	X	73	6
0196 MH180312	X	X	5.39%	X	241	X	1562	X	72	9
0197 MH180317	X	X	8.27%	16	119	X	1.69%	X	77	36
0198 MH180318	X	X	9.21%	X	452	X	1.78%	X	88	16
0199 MH180319	X	X	8.45%	20	66	X	5.23%	X	23	57
0200 MH180320	X	X	8.29%	33	33	X	3.84%	X	46	53



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										
0161 MH180260	35	13	2.24	2.10%	34	14	6979	211	X	7937
0162 MH180261	47	17	2.94	3.02%	40	20	8030	272	X	6200
0163 MH180262	62	36	3.70	3.79%	44	26	1.09%	367	X	4223
0164 MH180263	53	211	3.24	3.34%	45	22	9978	364	X	5196
0165 MH180264	58	143	3.41	3.56%	44	23	9921	376	X	5753
0166 MH180265	40	18	2.51	2.00%	42	15	7054	302	X	1.26%
0167 MH180266	45	117	2.74	2.39%	42	18	8993	411	X	9389
0168 MH180267	20	1062	2.96	1.91%	28	18	9657	393	X	1.32%
0169 MH180268	17	279	1.18	1.84%	X	9	3332	138	X	2.75%
0170 MH180269	22	88	1.38	1.65%	X	9	4050	192	X	2.89%
0171 MH180270	58	89	3.55	3.70%	42	28	1.23%	522	X	5162
0172 MH180271	30	1204	3.40	1.25%	29	14	8987	381	X	1.13%
0173 MH180272	35	235	2.54	1.74%	34	15	6697	349	X	7847
0174 MH180273	35	103	2.99	1.71%	36	15	6740	459	X	6837
0175 MH180274	31	77	2.53	1.36%	31	12	5681	416	X	9425
0176 MH180275	16	221	0.23	4.66%	X	4	386	46	X	1.25%
0177 MH180276	40	14	2.54	2.01%	40	15	7557	379	X	7612
0178 MH180277	46	22	3.18	2.41%	36	19	9375	471	X	8017
0179 MH180278	45	10	2.54	1.93%	43	15	7302	346	X	1.00%
0180 MH180279	38	22	2.29	1.96%	39	15	7334	291	X	7410
0181 MH180280	39	21	2.20	2.04%	37	15	7680	276	X	6607
0182 MH180281	55	23	3.71	3.41%	47	27	1.39%	451	X	2530
0183 MH180282	70	70	4.27	4.70%	41	34	1.65%	471	X	1430
0184 MH180283	70	249	4.35	4.26%	46	32	1.59%	460	X	2016
0185 MH180284	42	122	2.47	2.08%	31	16	8713	260	X	7947
0186 MH180285	33	2262	5.54	1.40%	42	25	1.95%	676	X	6078
0187 MH180286	32	1411	2.18	8325	X	7	4045	157	X	1017
0188 MH180287	53	965	3.26	2.71%	38	20	1.08%	315	X	4444
0189 MH180288	57	934	3.21	2.83%	33	20	1.11%	297	X	4415
0190 MH180289	74	255	4.22	3.65%	43	27	1.47%	374	X	6072
0191 MH180290	64	144	3.96	3.04%	41	22	1.19%	342	X	7286
0192 MH180291	52	105	2.78	2.05%	37	14	8575	309	X	1.13%
0193 MH180296	66	65	3.60	3.34%	42	21	1.23%	402	X	6417
0194 MH180302	332	170	5.26	4704	76	31	3.25%	519	X	3338
0195 MH180307	35	24	1.48	9695	33	6	4117	150	X	9445
0196 MH180312	41	45	2.48	1.52%	32	13	9887	201	X	1.02%
0197 MH180317	179	40	6.43	6989	25	27	3.34%	824	X	2.21%
0198 MH180318	107	10	4.43	1.69%	41	22	1.94%	525	X	2.04%
0199 MH180319	121	82	9.79	1.41%	X	28	4.41%	1480	X	1.11%
0200 MH180320	483	42	9.30	6814	20	32	5.57%	1465	X	1.30%



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										
0161 MH180260	18	441	13	X	X	6	5	33	X	2252
0162 MH180261	24	489	16	X	X	9	6	27	X	2690
0163 MH180262	30	488	23	X	X	12	7	21	X	3233
0164 MH180263	28	533	45	X	X	10	7	24	X	2972
0165 MH180264	28	537	44	X	X	11	7	25	X	3035
0166 MH180265	19	489	18	X	X	7	6	49	X	2667
0167 MH180266	21	488	28	X	X	8	9	33	X	2570
0168 MH180267	14	1189	199	58	X	3	27	25	X	1097
0169 MH180268	6	1589	60	X	X	2	38	37	X	759
0170 MH180269	9	1996	35	X	X	3	24	39	X	1122
0171 MH180270	29	588	62	112	X	11	19	18	X	3098
0172 MH180271	14	362	756	1598	X	5	13	30	X	1595
0173 MH180272	16	478	313	475	X	6	11	24	X	2205
0174 MH180273	16	417	547	608	X	6	9	21	X	2105
0175 MH180274	14	388	202	257	X	5	5	33	X	1940
0176 MH180275	13	497	30	656	X	X	X	21	X	221
0177 MH180276	18	460	107	71	X	7	7	28	X	2379
0178 MH180277	21	484	51	126	X	8	8	32	X	2738
0179 MH180278	18	455	29	117	X	7	6	42	X	2450
0180 MH180279	17	455	18	X	X	7	7	28	X	2317
0181 MH180280	17	452	10	X	X	7	8	24	X	2359
0182 MH180281	25	480	7	52	X	11	13	15	X	3023
0183 MH180282	31	550	6	120	X	14	23	16	X	3630
0184 MH180283	31	569	8	103	X	14	24	17	X	3505
0185 MH180284	18	485	6	X	X	7	9	22	X	2550
0186 MH180285	25	879	14	214	X	15	13	17	X	5785
0187 MH180286	13	155	18	459	X	3	8	5	X	854
0188 MH180287	25	481	X	1228	X	9	9	15	X	2851
0189 MH180288	27	494	X	1160	X	10	10	15	X	2996
0190 MH180289	37	535	5	310	X	13	9	20	X	3487
0191 MH180290	32	515	X	X	X	11	9	22	X	3300
0192 MH180291	23	455	6	X	X	8	6	29	X	2742
0193 MH180296	31	555	X	113	X	11	9	16	X	3001
0194 MH180302	112	524	19	X	X	10	12	18	X	1916
0195 MH180307	13	330	X	X	X	3	7	9	X	1464
0196 MH180312	19	358	X	60	X	6	6	10	X	1980
0197 MH180317	105	554	10	795	X	19	X	88	X	4156
0198 MH180318	53	520	19	385	X	15	X	108	X	3750
0199 MH180319	104	447	27	2669	X	38	X	112	X	7232
0200 MH180320	179	589	47	357	X	30	X	90	X	5569



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				
0161 MH180260	X	34	X	233
0162 MH180261	X	46	X	282
0163 MH180262	X	61	X	263
0164 MH180263	X	54	X	401
0165 MH180264	X	57	X	373
0166 MH180265	X	37	X	269
0167 MH180266	X	42	X	423
0168 MH180267	X	19	X	316
0169 MH180268	X	11	X	173
0170 MH180269	X	16	X	242
0171 MH180270	X	59	7	614
0172 MH180271	X	25	X	854
0173 MH180272	X	30	5	633
0174 MH180273	X	31	X	872
0175 MH180274	X	27	X	542
0176 MH180275	11	3	X	346
0177 MH180276	X	36	X	318
0178 MH180277	X	44	X	373
0179 MH180278	X	37	X	266
0180 MH180279	X	34	X	156
0181 MH180280	X	35	X	124
0182 MH180281	X	54	7	142
0183 MH180282	X	71	9	139
0184 MH180283	X	67	9	131
0185 MH180284	X	35	X	76
0186 MH180285	X	103	6	320
0187 MH180286	X	17	6	117
0188 MH180287	X	52	6	92
0189 MH180288	X	53	5	73
0190 MH180289	X	71	X	68
0191 MH180290	X	60	X	53
0192 MH180291	X	44	6	42
0193 MH180296	X	58	7	55
0194 MH180302	X	70	X	265
0195 MH180307	X	16	5	22
0196 MH180312	X	32	6	29
0197 MH180317	X	118	X	81
0198 MH180318	X	89	5	56
0199 MH180319	X	226	X	138
0200 MH180320	X	192	16	166



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										
0201 MH180321	X	X	8.92%	61	60	X	2.50%	X	44	63
0202 MH180322	X	X	7.69%	36	26	X	3.38%	X	58	50
0203 MH180323	X	X	11.61%	X	528	X	1.49%	X	109	18
0204 MH180324	X	X	5.68%	X	264	X	4186	X	80	7
0205 MH180325	0.052	X	5.95%	12	31	X	1.75%	X	X	28
0206 MH180326	X	X	7.14%	X	446	X	2896	X	87	10
0207 MH180331	X	X	5.76%	X	376	X	5298	X	92	7
0208 MH180336	X	X	7.19%	X	399	X	7510	X	103	13
0209 MH180341	X	X	5.71%	X	511	X	6671	X	80	5
0210 MH180346	X	X	5.76%	X	492	X	7280	X	83	6
0211 MH180352	X	X	5.21%	X	581	X	5648	X	84	6
0212 MH180357	X	X	5.98%	X	420	X	1.03%	X	75	9
0213 MH180363	X	X	10.29%	X	808	X	1945	X	95	13
0214 MH180368	X	X	6.17%	X	451	X	1459	X	90	8
0215 MH180373	X	X	6.14%	X	552	X	5431	X	99	7
0216 MH180379	X	X	5.10%	X	423	X	6258	X	69	4
0217 MH180384	X	X	4.45%	X	396	X	6214	X	94	5
0218 MH180389	X	X	4.75%	X	476	X	6292	X	76	4
0219 MH180394	X	X	5.66%	X	539	X	4398	X	84	6
0220 MH180399	X	X	9.07%	X	954	X	2748	X	107	14
0221 MH180406	0.006	X	9.04%	X	936	X	2385	X	87	12
0222 MH180411	X	X	4.51%	X	395	X	6640	X	97	5
0223 MH180416	X	X	6.49%	X	692	X	5255	X	82	8
0224 MH180421	X	X	5.61%	X	357	X	7654	X	70	9
0225 MH180424	X	X	6.44%	X	428	X	8220	X	84	9
0226 MH180425	0.473	2.4	7.08%	54	1090	X	3.79%	2.0	118	26
0227 MH180430	X	X	6.18%	X	423	X	4107	X	53	7
0228 MH180435	X	X	5.39%	X	369	X	2827	X	74	8
0229 MH180440	X	X	4.88%	X	280	X	3785	X	72	7
0230 MH180441	X	X	4.93%	X	262	X	4488	X	75	9

CHECKS										
0001 WB180002	X	X	8.62%	X	324	X	1682	X	104	7
0002 MH180086	0.007	X	6.35%	X	475	X	2945	X	67	5
0003 MH180103	X	X	9.27%	X	821	X	2214	0.9	91	14
0004 MH180161	X	X	7.70%	X	71	X	1964	X	X	5
0005 MH180221	X	X	9.71%	X	667	X	2005	X	100	12
0006 MH180248	X	X	6.37%	X	649	X	3982	X	76	15
0007 MH180276	X	X	6.10%	X	632	X	1709	X	87	9
0008 MH180363	X	X	10.13%	X	807	X	1945	X	97	13



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										
0201 MH180321	222	70	8.90	1.36%	X	42	5.03%	1215	X	1.32%
0202 MH180322	550	11	8.94	5666	26	33	5.55%	1454	X	1.03%
0203 MH180323	87	X	4.72	2.64%	50	27	2.28%	606	X	2.20%
0204 MH180324	50	2	2.47	1.33%	33	11	9637	285	X	1.48%
0205 MH180325	57	38	2.85	3.82%	X	5	8297	374	6	1.54%
0206 MH180326	58	1	3.32	2.53%	35	18	1.24%	355	X	6133
0207 MH180331	50	7	3.02	1.86%	42	13	6952	389	X	1.21%
0208 MH180336	58	27	4.03	2.27%	42	19	1.13%	437	X	8716
0209 MH180341	42	3	2.22	2.00%	35	15	5152	304	X	1.23%
0210 MH180346	48	2	2.38	1.95%	37	15	5395	336	X	1.45%
0211 MH180352	53	2	2.08	2.16%	38	14	4526	293	X	9679
0212 MH180357	55	15	2.43	1.69%	29	15	5682	353	X	1.81%
0213 MH180363	82	37	4.42	4.69%	42	29	9764	331	X	3702
0214 MH180368	53	19	2.78	2.97%	41	18	5734	200	X	2126
0215 MH180373	51	1	2.58	2.12%	46	16	5930	337	X	1.41%
0216 MH180379	39	1	1.87	1.55%	32	13	4064	260	X	1.49%
0217 MH180384	41	1	1.83	1.50%	44	12	3635	263	X	1.13%
0218 MH180389	40	2	1.87	1.76%	29	13	3838	270	X	1.10%
0219 MH180394	48	3	2.42	2.31%	38	17	5229	324	X	1.04%
0220 MH180399	67	38	3.78	4.64%	32	33	9574	378	X	4766
0221 MH180406	67	12	3.84	4.71%	40	34	9798	338	X	4060
0222 MH180411	45	2	1.93	1.53%	43	11	3634	294	X	1.14%
0223 MH180416	60	1	2.53	2.69%	37	20	6046	345	X	1.05%
0224 MH180421	50	23	2.71	1.92%	32	16	7256	382	X	8958
0225 MH180424	54	45	2.77	2.31%	38	18	6463	354	X	1.18%
0226 MH180425	156	3630	5.79	2.11%	50	9	1.80%	817	61	2.19%
0227 MH180430	46	68	2.57	2.68%	23	19	5970	291	X	8065
0228 MH180435	39	36	2.18	2.30%	27	15	5337	197	X	6263
0229 MH180440	32	95	2.06	1.83%	33	13	4547	191	X	8595
0230 MH180441	29	123	2.20	1.75%	26	13	4857	212	X	9877
CHECKS										
0001 WB180002	58	X	2.01	2.74%	49	17	1.53%	138	X	9479
0002 MH180086	36	3	2.04	2.59%	30	22	4322	500	X	1.56%
0003 MH180103	72	7	4.28	4.30%	38	37	1.11%	610	X	7958
0004 MH180161	18	3	0.85	2.64%	X	6	1493	584	3	3.63%
0005 MH180221	69	1	3.41	4.49%	45	22	1.05%	471	X	5671
0006 MH180248	43	506	2.68	2.69%	35	18	7933	287	X	8807
0007 MH180276	39	16	2.55	2.01%	32	15	7580	381	X	7413
0008 MH180363	77	37	4.42	4.67%	43	28	9746	334	X	3687



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										
0201 MH180321	173	662	82	190	X	34	X	92	X	6208
0202 MH180322	194	638	30	206	X	29	X	76	X	5506
0203 MH180323	45	636	17	53	X	16	6	109	X	3568
0204 MH180324	19	434	5	67	X	6	X	23	X	2293
0205 MH180325	34	603	35	181	X	9	X	70	X	3235
0206 MH180326	24	474	X	X	X	9	6	14	X	2879
0207 MH180331	18	477	8	488	X	6	5	46	X	2426
0208 MH180336	28	531	80	106	X	13	6	53	X	3827
0209 MH180341	15	426	11	142	X	6	5	65	X	2367
0210 MH180346	16	434	14	106	X	6	5	78	X	2416
0211 MH180352	16	423	12	X	X	5	5	53	X	2113
0212 MH180357	19	448	22	117	X	7	5	110	X	2569
0213 MH180363	33	566	63	296	X	13	8	20	X	3454
0214 MH180368	19	455	10	73	X	7	6	14	X	2381
0215 MH180373	19	450	18	65	X	7	5	71	X	2699
0216 MH180379	13	389	12	X	X	5	X	71	X	1939
0217 MH180384	13	412	13	X	X	5	X	61	X	1970
0218 MH180389	13	371	10	X	X	5	X	61	X	1803
0219 MH180394	17	419	7	86	X	6	7	38	X	2303
0220 MH180399	29	557	12	132	X	12	8	26	X	3253
0221 MH180406	30	550	8	60	X	12	8	23	X	3159
0222 MH180411	12	397	13	75	X	5	X	61	X	2099
0223 MH180416	26	460	10	X	X	8	5	56	X	2546
0224 MH180421	20	388	40	186	X	7	X	61	X	2320
0225 MH180424	20	457	74	200	X	8	X	81	X	2600
0226 MH180425	2181	954	2049	3898	X	18	X	261	X	7007
0227 MH180430	25	378	51	154	X	8	X	51	X	2438
0228 MH180435	17	378	30	65	X	6	X	35	X	2061
0229 MH180440	14	354	27	135	X	5	X	62	X	1861
0230 MH180441	14	357	31	176	X	5	X	73	X	1893

CHECKS										
0001 WB180002	28	501	8	X	X	11	9	18	X	1897
0002 MH180086	15	599	17	62	X	6	15	50	X	1852
0003 MH180103	34	526	16	X	X	13	23	34	X	3825
0004 MH180161	4	970	62	627	X	4	23	11	X	109
0005 MH180221	32	556	20	60	X	13	10	24	X	3952
0006 MH180248	24	455	84	X	X	8	11	48	X	2680
0007 MH180276	18	452	104	56	X	7	7	28	X	2393
0008 MH180363	33	569	56	312	X	13	8	20	X	3436



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				
0201 MH180321	X	193	17	181
0202 MH180322	X	182	6	158
0203 MH180323	X	81	X	90
0204 MH180324	X	32	6	40
0205 MH180325	5	68	X	61
0206 MH180326	X	50	7	52
0207 MH180331	X	34	8	47
0208 MH180336	X	72	6	96
0209 MH180341	X	32	X	66
0210 MH180346	X	33	5	60
0211 MH180352	X	28	8	47
0212 MH180357	X	36	6	70
0213 MH180363	X	67	9	89
0214 MH180368	X	36	5	48
0215 MH180373	X	37	X	60
0216 MH180379	X	26	8	43
0217 MH180384	X	23	6	44
0218 MH180389	X	24	6	53
0219 MH180394	X	33	8	52
0220 MH180399	X	62	X	76
0221 MH180406	X	63	7	70
0222 MH180411	X	25	X	40
0223 MH180416	X	39	8	59
0224 MH180421	X	36	5	60
0225 MH180424	X	39	X	73
0226 MH180425	X	138	X	1045
0227 MH180430	X	39	X	109
0228 MH180435	X	32	X	52
0229 MH180440	X	26	X	54
0230 MH180441	X	27	X	58

CHECKS				
0001 WB180002	X	51	6	34
0002 MH180086	X	23	6	87
0003 MH180103	X	65	7	695
0004 MH180161	X	X	10	32
0005 MH180221	X	71	9	72
0006 MH180248	X	41	X	959
0007 MH180276	X	36	X	318
0008 MH180363	X	66	7	90



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
STANDARDS										
0001 KLEN73907	2.728									
0002 OREAS 623		20.1	5.19%	82	391	22	1.40%	54.5	57	226
0003 KLEN73914	0.532									
0004 OREAS 630		10.7	7.70%	711	84	9	1.69%	14.0	82	5
0005 KLEN73915	1.083									
0006 OREAS 901		X	7.04%	69	244	X	947	X	102	76
0007 OREAS 45d		X	8.35%	14	194	X	1974	X	41	28
0008 OREAS 202	0.777									
0009 OREAS 624		43.8	4.07%	108	95	19	1.43%	125.4	30	263
0010 AMIS0272		118.5	4.90%	31	1229	X	4.66%	10.9	50	19
0011 OREAS 623		20.5	5.18%	80	209	20	1.38%	54.6	56	225
0012 ST547	10.601									
0013 OREAS 630		11.1	7.36%	716	321	9	1.62%	14.0	89	6
0014 ST547	10.769									
0015 OREAS 901		X	6.89%	68	240	X	938	X	96	76
0016 SH65	1.430									
BLANKS										
0001 Control Blank	0.005	X	50	X	X	X	X	X	X	X
0002 Control Blank	X	X	X	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	87	X	X	X	X	X	X	X
0005 Control Blank	X	X	63	X	X	X	X	X	X	1
0006 Control Blank	X	X	X	X	X	X	X	X	X	X
0007 Control Blank	X	X	76	X	X	X	X	X	X	X
0008 Control Blank	0.006	X	X	X	X	X	X	X	X	1



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
STANDARDS										
0001 KLEN73907										
0002 OREAS 623	28	1.81%	13.46	1.46%	25	14	1.21%	592	9	1.11%
0003 KLEN73914										
0004 OREAS 630	18	399	8.76	3.35%	32	23	1.14%	>2.00%	10	5882
0005 KLEN73915										
0006 OREAS 901	70	1419	4.01	3.82%	45	16	6159	308	3	462
0007 OREAS 45d	616	386	14.97	4488	X	22	2421	524	X	1122
0008 OREAS 202										
0009 OREAS 624	28	>2.00%	15.96	8883	X	9	1.21%	629	12	4687
0010 AMIS0272	198	424	3.74	2.59%	X	39	1.25%	8086	X	3720
0011 OREAS 623	31	1.75%	13.68	1.45%	24	15	1.21%	607	5	1.14%
0012 ST547										
0013 OREAS 630	18	398	8.90	3.20%	37	22	1.11%	>2.00%	7	5723
0014 ST547										
0015 OREAS 901	67	1431	4.05	3.74%	45	15	6117	300	X	461
0016 SH65										
BLANKS										
0001 Control Blank	X	X	X	X	X	X	X	X	X	X
0002 Control Blank	X	X	X	56	X	X	X	3	X	X
0003 Control Blank	X	X	X	84	X	X	X	X	X	X
0004 Control Blank	X	X	X	X	X	X	X	X	X	X
0005 Control Blank	X	X	X	64	X	X	X	X	X	X
0006 Control Blank	X	X	X	41	X	X	X	X	X	X
0007 Control Blank	X	X	X	55	X	X	X	X	X	X
0008 Control Blank	X	X	X	57	X	X	X	X	X	X



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
STANDARDS										
0001 KLEN73907										
0002 OREAS 623	17	435	2541	9.29%	25	7	6	80	X	1398
0003 KLEN73914										
0004 OREAS 630	12	487	2925	8.01%	43	11	7	166	X	2483
0005 KLEN73915										
0006 OREAS 901	41	635	15	337	X	14	X	31	X	2920
0007 OREAS 45d	248	430	17	492	X	53	X	31	X	7979
0008 OREAS 202										
0009 OREAS 624	19	505	6040	>10.00%	67	7	9	35	X	1118
0010 AMIS0272	32	1534	870	1.46%	9	11	X	155	X	4569
0011 OREAS 623	19	426	2517	9.23%	32	7	5	80	X	1375
0012 ST547										
0013 OREAS 630	12	491	2807	7.81%	44	10	7	180	X	2390
0014 ST547										
0015 OREAS 901	40	627	14	356	X	14	X	31	X	2397
0016 SH65										
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	X
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	5
0005 Control Blank	X	X	X	X	X	X	X	X	X	6
0006 Control Blank	X	X	X	X	X	X	X	X	X	X
0007 Control Blank	X	X	X	X	X	X	X	X	X	X
0008 Control Blank	X	X	X	X	X	X	X	X	X	X



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
STANDARDS				
0001 KLEN73907				
0002 OREAS 623	X	24	X	1.07%
0003 KLEN73914				
0004 OREAS 630	69	44	19	5928
0005 KLEN73915				
0006 OREAS 901	X	82	X	26
0007 OREAS 45d	X	223	X	48
0008 OREAS 202				
0009 OREAS 624	X	29	5	>2.00%
0010 AMIS0272	X	119	19	1476
0011 OREAS 623	X	26	X	1.04%
0012 ST547				
0013 OREAS 630	69	44	22	5684
0014 ST547				
0015 OREAS 901	X	82	X	24
0016 SH65				
BLANKS				
0001 Control Blank	X	X	X	2
0002 Control Blank	X	X	X	2
0003 Control Blank	X	X	X	X
0004 Control Blank	X	X	X	X
0005 Control Blank	X	1	X	X
0006 Control Blank	X	1	X	X
0007 Control Blank	X	X	X	X
0008 Control Blank	X	X	X	X



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