

MINERALS TEST REPORT

CLIENT

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 AUSTRALIA

JOB INFORMATION

JOB CODE : 2310.0/2403760
 NO. SAMPLES : 224
 NO. ELEMENTS : 61
 CLIENT ORDER NO. : PO 4542848435 (Job 1 of 1)
 SAMPLE SUBMISSION NO. : South32GFE004
 PROJECT : Carrara
 SAMPLE TYPE : Drill core
 DATE RECEIVED : 05/03/2024
 DATE TESTED : 08/03/2024 - 20/03/2024
 DATE REPORTED : 21/03/2024
 DATE PRINTED : 21/03/2024

REPORT NOTES

TESTED BY

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APPROVED SIGNATURE FOR

Anthony Wilson

Anthony WILSON
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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.

MEASUREMENT OF UNCERTAINTY

Measurement of uncertainty estimates are available for most tests upon request.

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 also be charged. Current disposal costs including packaging in a Class2 waste disposal facility is charged at \$175.00 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
	LNR	= Lab Not Received	>	= Value beyond Limit of Method
	DTF	= Result still to come	+	= Extra Sample Received Not Listed
	I/S	= Insufficient Sample for Analysis		

UNITS	ppm for Solid Samples	= mg/Kg
	ppb for Solid Samples	= µg/Kg
	ppm for Liquid Samples	= mg/L
	ppb for Liquid Samples	= µg/L



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 C148	X	0.08	4.51%	4.2	297.4	1.72	0.93	5.69%	0.07	55.49
0002 C149	X	0.07	6.82%	14.9	511.5	2.68	0.52	1.25%	X	83.05
0003 C150	X	0.06	6.69%	6.3	481.7	2.25	0.42	5749	X	81.12
0004 C151	X	0.09	6.68%	12.1	402.9	2.64	0.50	1.35%	0.09	88.99
0005 C152	X	0.13	7.28%	8.0	531.3	2.72	0.53	5455	0.06	93.10
0006 C153	X	0.11	6.67%	6.5	512.7	2.47	0.45	5843	0.14	82.46
0007 C154	X	0.07	7.06%	9.8	564.6	2.50	0.51	1.17%	0.18	86.70
0008 C155	X	0.05	7.12%	8.9	550.1	2.59	0.48	6884	0.02	90.42
0009 C156	0.017	X	7.10%	5.0	532.7	2.63	0.43	7166	0.10	92.21
0010 C157	X	0.10	6.67%	8.4	645.4	2.30	0.50	8877	0.03	82.87
0011 C158	X	0.10	6.88%	8.5	567.6	2.51	0.47	5523	0.03	84.82
0012 C159	X	0.09	7.28%	12.1	490.9	2.53	0.53	4215	0.07	89.65
0013 C160	X	0.10	7.00%	10.2	488.4	2.25	0.49	6648	0.14	84.09
0014 C161	X	0.09	7.12%	11.1	580.2	2.56	0.52	6701	0.18	87.90
0015 C162	X	0.09	6.44%	12.0	633.9	2.21	0.46	6644	0.42	77.27
0016 C163	X	0.07	7.01%	13.7	572.1	2.56	0.50	8082	0.13	89.71
0017 C164	0.048	0.08	6.34%	10.9	524.1	2.42	0.47	5541	0.15	79.76
0018 C165	X	0.07	7.07%	8.6	467.7	2.60	0.76	4844	0.07	98.68
0019 C166	X	0.05	7.33%	8.6	422.2	2.73	0.72	7352	0.05	104.41
0020 C167	X	0.07	6.81%	11.0	530.4	2.81	0.47	6517	0.18	88.38
0021 C168	X	0.08	7.13%	23.7	586.3	2.70	0.55	4629	0.16	102.27
0022 C169	X	0.07	6.96%	13.2	673.5	2.48	0.51	6347	0.18	83.52
0023 C170	X	0.07	7.00%	16.1	581.7	2.55	0.50	6011	0.17	90.00
0024 C171	X	0.07	6.61%	18.7	591.3	2.49	0.48	7093	0.16	83.69
0025 C172	X	0.06	6.60%	15.2	570.5	2.39	0.48	6073	0.17	83.17
0026 C173	X	0.06	7.14%	11.1	522.8	2.71	0.62	5740	0.07	99.78
0027 C174	X	0.09	7.28%	10.4	502.0	2.61	0.58	4945	0.09	89.07
0028 C175	X	0.09	6.44%	11.2	544.8	2.46	0.50	6867	0.15	84.94
0029 C176	X	0.09	6.27%	9.4	551.7	2.35	0.48	7336	0.10	80.56
0030 C177	X	X	862	1.0	3.2	0.07	0.01	69	X	2.68
0031 C178	X	0.07	7.20%	14.8	548.0	2.82	0.58	4536	0.08	109.80
0032 C179	X	0.09	6.35%	21.4	546.9	2.47	0.51	2.62%	0.18	81.54
0033 C180	X	0.08	6.78%	13.0	585.3	2.61	0.51	6912	0.15	89.19
0034 C181	X	0.07	7.02%	16.2	510.5	2.68	0.53	6474	0.10	92.33
0035 C182	X	0.08	7.25%	22.0	480.3	2.81	0.61	6440	0.14	94.18
0036 C183	X	0.09	6.43%	20.3	428.7	2.49	0.54	7785	0.24	83.71
0037 C184	0.005	0.10	7.04%	15.2	401.8	2.96	0.70	6318	0.22	95.89
0038 C185	X	0.07	6.82%	12.9	367.1	2.57	0.71	7716	0.10	95.15
0039 C186	X	0.11	6.94%	19.6	425.2	2.83	0.58	8002	0.29	90.41
0040 C187	X	0.10	6.93%	11.2	370.2	2.65	0.65	6554	0.11	95.66



ELEMENTS	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
DETECTION LIMIT	0.1	1	0.05	0.5	0.01	0.01	0.01	0.01	0.05	0.01
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 C148	5.0	13	7.24	30.1	3.77	2.31	0.71	1.56	10.27	4.02
0002 C149	6.3	26	11.55	6.2	5.19	3.13	1.10	1.89	15.96	5.53
0003 C150	4.1	18	10.09	3.0	5.35	3.45	1.20	1.70	14.57	5.95
0004 C151	5.0	29	11.02	4.4	5.66	3.58	1.06	1.81	15.67	6.08
0005 C152	6.1	30	12.50	3.8	5.65	3.55	1.18	2.12	17.22	6.40
0006 C153	5.0	29	11.30	2.9	5.06	3.24	1.17	1.93	15.51	5.61
0007 C154	7.4	27	12.02	4.2	5.29	3.34	1.25	2.25	16.57	6.01
0008 C155	4.9	27	12.10	3.2	5.86	3.75	1.29	2.33	17.16	6.51
0009 C156	5.7	31	11.99	4.4	5.69	3.61	1.33	1.92	16.82	6.27
0010 C157	10.1	34	10.94	32.5	5.19	3.24	1.18	2.01	15.71	5.87
0011 C158	8.9	34	11.17	32.0	5.36	3.42	1.19	2.23	15.83	6.04
0012 C159	7.0	25	11.87	29.7	5.89	3.74	1.24	2.17	16.95	6.40
0013 C160	6.9	26	10.59	18.8	5.29	3.37	1.17	2.02	15.72	5.84
0014 C161	8.8	31	11.67	24.1	5.36	3.42	1.18	2.41	16.68	5.91
0015 C162	8.8	35	9.74	17.4	4.84	2.97	1.14	2.42	14.66	5.37
0016 C163	7.8	32	10.95	18.1	5.17	3.26	1.25	2.34	16.09	5.73
0017 C164	8.4	33	10.04	15.5	4.69	2.98	1.00	2.20	14.63	5.31
0018 C165	6.2	21	10.80	15.8	5.40	3.45	1.10	1.85	15.12	6.01
0019 C166	5.0	20	11.09	9.5	5.55	3.46	1.15	1.74	15.86	6.36
0020 C167	7.3	31	11.15	17.2	5.28	3.45	1.04	2.22	16.26	5.83
0021 C168	9.0	34	11.15	18.6	6.55	4.06	1.16	2.70	17.33	6.81
0022 C169	9.1	38	10.89	19.2	4.77	2.98	1.15	2.52	15.93	5.52
0023 C170	8.4	34	11.35	18.4	4.95	3.08	1.11	2.55	15.66	5.62
0024 C171	9.0	38	10.67	18.9	4.90	3.06	1.16	2.61	15.79	5.52
0025 C172	8.3	36	10.30	19.0	4.80	3.08	1.13	2.62	15.32	5.39
0026 C173	7.1	28	11.60	19.6	8.22	4.47	1.39	2.36	17.48	7.49
0027 C174	7.9	28	12.04	16.3	4.99	3.31	1.08	2.29	16.67	5.68
0028 C175	8.5	32	10.17	13.9	5.27	3.36	1.12	2.20	15.46	5.68
0029 C176	8.6	33	9.65	15.3	5.07	3.09	1.08	2.15	14.64	5.43
0030 C177	0.7	7	0.11	7.2	0.13	0.07	0.01	0.35	0.22	0.16
0031 C178	6.9	27	11.13	14.8	8.25	5.29	1.36	2.28	18.76	8.50
0032 C179	7.9	30	9.16	20.1	5.08	3.17	1.17	3.39	14.72	5.62
0033 C180	7.4	29	10.27	24.4	5.58	3.44	1.21	2.54	16.17	6.09
0034 C181	7.0	28	10.73	21.5	6.39	4.04	1.30	2.53	17.18	6.92
0035 C182	7.2	27	11.52	20.3	6.33	3.92	1.31	2.73	16.71	6.79
0036 C183	7.6	26	9.86	15.9	5.22	3.38	1.19	2.78	15.26	6.02
0037 C184	6.4	22	10.42	13.8	6.57	4.20	1.26	2.36	16.68	7.01
0038 C185	5.2	16	9.06	9.9	6.48	4.41	1.13	2.19	16.17	6.91
0039 C186	9.0	26	10.07	14.8	5.39	3.37	1.22	2.77	16.37	6.08
0040 C187	6.1	19	9.96	11.2	6.69	4.22	1.27	2.20	16.47	7.07



ELEMENTS	Ge	Hf	Ho	In	K	La	Li	Lu	Mg	Mn
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.1	0.05	0.01	0.01	20	0.01	0.1	0.01	20	1
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 C148	1.1	4.18	0.75	0.04	2.63%	26.53	15.4	0.39	7766	479
0002 C149	1.5	5.98	1.01	0.05	3.57%	40.44	23.1	0.46	7486	174
0003 C150	1.4	6.33	1.10	0.05	3.38%	38.51	16.2	0.53	6991	110
0004 C151	1.4	6.30	1.15	0.04	3.33%	43.52	20.1	0.54	9136	196
0005 C152	1.5	6.71	1.16	0.05	3.65%	45.65	22.1	0.53	6893	168
0006 C153	1.6	5.83	1.06	0.05	3.30%	40.20	21.5	0.49	6291	223
0007 C154	1.6	6.20	1.08	0.05	3.63%	42.16	21.4	0.52	8307	580
0008 C155	1.5	6.81	1.21	0.06	3.57%	43.83	20.6	0.57	6317	253
0009 C156	1.6	6.62	1.13	0.05	3.61%	43.95	21.9	0.56	6767	303
0010 C157	1.4	6.36	1.08	0.05	3.17%	40.57	18.0	0.49	7392	526
0011 C158	1.5	6.16	1.10	0.05	3.38%	41.27	18.8	0.52	7176	421
0012 C159	1.6	6.52	1.20	0.06	3.50%	42.92	19.1	0.59	7832	323
0013 C160	1.4	6.08	1.08	0.05	3.35%	40.36	16.1	0.51	7436	429
0014 C161	1.5	6.34	1.09	0.05	3.65%	42.09	19.6	0.53	7645	421
0015 C162	1.5	6.00	0.95	0.05	3.44%	37.66	17.6	0.46	6721	421
0016 C163	1.3	6.32	1.05	0.05	3.32%	43.90	18.4	0.50	7797	427
0017 C164	1.3	5.71	0.93	0.05	2.83%	38.93	18.2	0.47	6630	361
0018 C165	1.3	5.82	1.09	0.04	3.32%	47.95	16.3	0.53	7731	273
0019 C166	1.3	6.21	1.12	0.04	3.32%	50.94	14.8	0.52	8302	392
0020 C167	1.6	6.10	1.10	0.05	3.35%	43.05	17.5	0.53	7181	406
0021 C168	1.4	6.70	1.32	0.06	3.47%	46.43	18.0	0.65	6899	295
0022 C169	1.4	6.04	0.99	0.04	3.57%	40.64	18.0	0.45	6903	384
0023 C170	1.4	6.00	1.00	0.05	3.75%	42.83	17.5	0.47	6954	357
0024 C171	1.4	6.01	1.01	0.04	3.69%	40.61	18.1	0.50	6962	381
0025 C172	1.3	6.04	1.00	0.06	3.58%	40.58	17.5	0.47	6606	353
0026 C173	1.5	7.86	1.42	0.07	3.59%	47.79	17.9	0.67	7630	372
0027 C174	1.6	5.80	1.00	0.05	3.61%	43.00	18.3	0.52	7628	320
0028 C175	1.4	6.41	1.12	0.05	3.42%	41.47	17.3	0.54	6581	409
0029 C176	1.4	6.01	1.00	0.05	3.38%	39.23	17.0	0.49	6342	436
0030 C177	0.7	0.28	0.02	X	93	1.29	15.3	0.02	42	78
0031 C178	1.3	8.29	1.71	0.06	3.29%	52.26	18.7	0.80	7397	353
0032 C179	1.2	5.95	1.01	0.05	3.22%	40.10	16.7	0.48	1.26%	1342
0033 C180	1.4	6.38	1.07	0.05	3.59%	43.56	18.8	0.51	6998	419
0034 C181	1.4	7.12	1.31	0.05	3.61%	44.42	19.4	0.60	7494	394
0035 C182	1.5	7.09	1.27	0.05	3.60%	45.14	20.4	0.59	8064	386
0036 C183	1.4	5.85	1.07	0.06	2.96%	40.25	19.2	0.53	7460	444
0037 C184	1.6	6.97	1.36	0.05	3.10%	47.33	19.6	0.63	7866	330
0038 C185	1.3	6.19	1.34	0.06	2.97%	46.41	16.0	0.64	8425	369
0039 C186	1.6	6.00	1.11	0.05	2.86%	43.66	21.0	0.53	7571	358
0040 C187	1.4	6.51	1.39	0.05	2.99%	46.15	19.7	0.66	7883	325



ELEMENTS	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	Re
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.1	20	0.05	0.01	0.5	50	0.5	0.01	0.05	0.002
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 C148	1.2	6548	9.17	23.08	10.0	253	16.5	6.33	130.59	0.004
0002 C149	2.3	552	12.23	34.78	12.8	398	13.3	9.32	202.59	X
0003 C150	2.1	497	11.66	34.93	9.6	274	9.0	9.31	178.31	0.003
0004 C151	2.6	2173	12.94	36.53	11.9	465	20.3	10.04	180.07	X
0005 C152	3.1	6396	13.65	38.44	13.5	426	16.5	10.55	205.49	X
0006 C153	3.3	7523	11.52	34.37	12.4	414	17.5	9.22	191.56	X
0007 C154	2.5	7091	12.21	37.02	13.1	431	20.0	9.89	206.61	X
0008 C155	2.1	6907	12.59	37.56	11.4	365	24.2	10.25	203.92	X
0009 C156	1.6	7244	11.81	40.92	11.1	394	15.9	10.74	207.13	0.002
0010 C157	2.4	1.00%	11.38	35.19	14.7	442	13.0	9.39	183.18	0.023
0011 C158	2.3	1.06%	11.63	36.57	15.6	428	14.8	9.64	197.97	0.002
0012 C159	2.0	8066	12.36	37.92	11.3	403	23.1	10.13	203.20	X
0013 C160	2.3	9377	12.25	35.66	12.2	382	23.7	9.68	183.65	X
0014 C161	2.3	9359	11.87	36.33	14.8	466	30.6	9.86	208.33	0.003
0015 C162	2.4	9746	10.79	32.83	15.5	440	37.2	8.76	189.10	X
0016 C163	2.4	1.06%	12.06	37.45	14.1	537	36.6	10.08	187.95	X
0017 C164	2.7	1.19%	11.09	33.51	14.9	384	30.6	9.07	167.47	X
0018 C165	2.2	7834	14.36	39.32	10.1	367	26.8	10.90	188.50	0.002
0019 C166	2.5	7636	15.35	40.74	9.1	381	18.1	11.62	182.49	X
0020 C167	2.4	1.07%	13.04	36.22	13.1	368	25.7	9.97	194.66	X
0021 C168	3.0	1.01%	14.05	41.31	16.6	404	32.9	11.00	193.94	X
0022 C169	3.1	9774	11.77	35.34	16.7	518	35.4	9.51	189.84	X
0023 C170	2.7	1.01%	11.97	36.66	15.4	458	37.9	9.96	208.77	X
0024 C171	2.9	1.01%	11.24	35.05	16.9	473	39.4	9.51	205.05	X
0025 C172	2.6	1.09%	11.30	34.30	16.7	438	42.0	9.45	199.16	X
0026 C173	2.5	9110	14.76	43.21	12.8	401	25.6	11.42	207.55	X
0027 C174	2.5	9413	12.28	36.79	14.7	382	24.7	10.03	209.22	X
0028 C175	2.3	1.03%	11.52	35.84	16.4	384	23.3	9.48	194.06	X
0029 C176	2.7	1.06%	11.04	34.00	15.6	388	21.6	9.17	188.66	X
0030 C177	1.1	28	1.06	1.12	4.9	X	0.7	0.30	0.51	X
0031 C178	2.8	8850	15.77	47.49	14.6	380	24.7	12.49	184.62	0.002
0032 C179	3.0	9330	12.38	34.06	17.4	456	35.1	9.25	178.83	X
0033 C180	2.9	1.10%	12.51	37.37	14.3	510	33.1	10.11	202.43	X
0034 C181	2.6	1.02%	13.01	40.02	13.2	507	29.5	10.59	209.02	X
0035 C182	3.0	1.02%	13.55	40.02	13.7	514	29.7	10.75	212.84	X
0036 C183	3.4	1.21%	11.24	36.57	15.4	460	34.5	9.61	179.96	X
0037 C184	2.6	1.15%	13.63	41.16	12.3	403	33.5	11.11	192.02	X
0038 C185	2.3	8008	13.90	39.17	10.1	333	26.2	10.82	178.02	X
0039 C186	3.3	1.57%	11.90	37.78	18.2	418	38.5	10.24	180.28	X
0040 C187	2.6	1.12%	13.66	40.30	12.8	370	37.4	10.91	185.98	X



ELEMENTS	S	Sb	Sc	Se	Sm	Sn	Sr	Ta	Tb	Te
UNITS	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.05	0.05	0.1	0.5	0.01	0.1	0.05	0.01	0.01	0.2
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 C148	0.06	0.73	4.7	0.6	4.23	2.4	50.65	0.81	0.59	X
0002 C149	X	1.90	8.5	X	6.14	3.1	51.88	1.04	0.80	X
0003 C150	X	1.54	7.4	X	6.38	2.9	43.82	1.04	0.87	X
0004 C151	X	1.54	7.6	1.0	6.60	3.3	59.87	1.10	0.90	X
0005 C152	0.11	1.80	8.9	0.8	6.76	3.5	62.01	1.19	0.91	X
0006 C153	0.15	1.81	8.8	X	6.18	3.0	60.23	0.99	0.81	X
0007 C154	0.34	1.76	9.5	X	6.90	3.1	67.64	1.07	0.84	X
0008 C155	0.30	1.99	9.1	0.6	7.21	3.2	72.13	1.05	0.92	X
0009 C156	0.25	1.64	10.0	X	7.20	3.3	100.29	1.03	0.86	X
0010 C157	0.47	1.38	8.8	X	6.26	2.9	88.25	0.98	0.83	X
0011 C158	0.43	1.65	9.0	X	6.63	3.1	73.01	1.00	0.83	X
0012 C159	0.43	1.72	9.1	X	6.96	3.3	67.51	1.11	0.93	X
0013 C160	0.57	1.57	8.5	X	6.36	3.1	65.82	1.06	0.84	X
0014 C161	0.69	1.75	9.5	X	6.47	3.0	67.32	1.06	0.93	X
0015 C162	0.92	1.87	8.7	X	6.00	2.6	61.39	0.96	0.75	X
0016 C163	0.65	1.61	7.3	X	6.55	3.0	67.92	0.99	0.85	X
0017 C164	0.68	1.60	8.1	X	5.87	2.7	64.73	0.96	0.72	X
0018 C165	0.45	1.28	6.7	X	6.97	3.0	65.48	1.35	0.86	X
0019 C166	0.43	1.18	6.7	X	7.09	3.3	73.62	1.45	0.92	X
0020 C167	0.68	1.46	7.6	X	6.70	3.2	69.27	1.09	0.84	X
0021 C168	1.30	2.27	8.1	0.5	7.42	3.5	67.94	1.17	0.97	X
0022 C169	0.94	1.74	9.1	X	6.17	2.9	64.71	1.02	0.76	X
0023 C170	0.98	1.72	9.0	X	6.32	2.9	63.65	1.05	0.78	X
0024 C171	1.11	2.07	8.4	0.7	6.23	2.9	62.60	1.00	0.81	X
0025 C172	1.18	1.99	8.5	X	5.99	2.9	61.85	0.96	0.77	X
0026 C173	0.64	1.39	8.6	X	8.06	3.7	65.41	1.23	1.07	X
0027 C174	0.68	1.59	8.3	X	6.49	3.0	62.13	1.07	0.78	X
0028 C175	0.74	1.76	8.1	X	6.39	2.9	61.77	0.96	0.84	X
0029 C176	0.69	1.61	7.6	X	5.98	2.7	61.33	0.94	0.77	X
0030 C177	X	0.17	0.2	X	0.20	0.7	0.61	X	0.02	X
0031 C178	0.68	1.50	7.7	X	8.90	4.0	66.67	1.32	1.25	X
0032 C179	1.18	1.88	8.2	X	6.12	2.8	78.42	0.99	0.77	X
0033 C180	0.97	1.67	8.7	X	6.71	2.9	65.16	1.08	0.81	X
0034 C181	1.15	1.84	8.8	X	7.50	3.3	65.50	1.06	1.02	X
0035 C182	1.36	1.97	8.7	X	7.38	3.4	66.62	1.14	0.98	X
0036 C183	1.53	2.13	8.7	X	6.53	2.9	66.64	0.96	0.85	X
0037 C184	1.12	1.87	8.6	X	7.44	3.5	68.66	1.21	1.02	X
0038 C185	0.95	1.50	6.6	X	7.27	3.3	56.86	1.23	1.01	X
0039 C186	1.56	2.26	8.5	X	6.73	3.0	68.83	1.04	0.85	X
0040 C187	0.99	1.70	7.9	X	7.59	3.3	62.74	1.15	1.03	X



ELEMENTS	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.01	5	0.02	0.01	0.01	1	0.1	0.05	0.01	1
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 C148	13.84	1377	0.62	0.33	4.12	22	1.3	20.75	2.23	22
0002 C149	17.26	2589	0.84	0.46	5.07	49	2.8	28.37	3.09	12
0003 C150	17.31	2270	0.79	0.50	4.34	29	2.4	30.61	3.37	7
0004 C151	19.62	2332	0.77	0.54	5.58	36	2.8	31.89	3.56	16
0005 C152	20.16	2890	0.91	0.50	5.91	48	3.0	31.45	3.49	16
0006 C153	16.14	2599	0.83	0.47	5.12	44	2.8	28.46	3.33	18
0007 C154	17.95	2678	0.88	0.48	5.28	44	2.8	29.29	3.26	23
0008 C155	18.05	2481	0.89	0.55	5.17	38	2.6	32.83	3.72	18
0009 C156	16.89	2934	0.90	0.53	5.04	48	2.7	31.15	3.57	15
0010 C157	16.31	2681	1.14	0.48	5.26	43	2.6	28.82	3.22	11
0011 C158	16.79	2568	1.21	0.50	5.08	48	2.6	29.57	3.44	14
0012 C159	18.87	2560	1.29	0.55	5.19	45	2.7	32.47	3.67	38
0013 C160	18.40	2457	1.27	0.48	5.17	40	2.5	29.66	3.28	43
0014 C161	18.30	2618	1.43	0.49	5.17	49	2.6	29.14	3.37	85
0015 C162	15.40	2532	1.51	0.43	4.61	46	2.5	26.06	2.97	114
0016 C163	16.97	2492	1.30	0.48	5.04	42	2.6	30.02	3.20	71
0017 C164	15.79	2390	1.30	0.43	4.99	44	2.6	25.91	2.98	85
0018 C165	25.07	2118	1.28	0.52	6.59	31	3.7	30.08	3.55	26
0019 C166	26.89	2059	1.24	0.51	6.90	27	3.0	30.57	3.28	16
0020 C167	18.48	2360	1.32	0.51	5.00	40	2.8	29.99	3.41	34
0021 C168	18.12	2434	1.64	0.61	5.26	44	2.6	34.90	4.18	66
0022 C169	16.10	2862	1.37	0.45	4.76	53	2.7	26.13	2.92	97
0023 C170	17.55	2649	1.32	0.46	4.90	47	2.6	26.90	3.10	88
0024 C171	15.92	2572	1.40	0.44	4.56	47	2.6	27.02	3.05	99
0025 C172	15.63	2618	1.21	0.45	4.47	47	2.5	26.38	3.11	94
0026 C173	19.55	2490	1.26	0.63	5.24	39	2.8	37.98	4.39	40
0027 C174	18.01	2395	1.34	0.48	4.86	40	2.6	28.21	3.30	47
0028 C175	15.65	2352	1.29	0.50	4.60	40	2.5	29.64	3.40	58
0029 C176	14.98	2350	1.28	0.45	4.40	41	2.4	27.30	3.09	58
0030 C177	0.77	318	X	0.01	0.14	3	0.2	0.66	0.08	5
0031 C178	20.11	2341	1.28	0.78	5.37	35	2.6	44.42	5.20	37
0032 C179	15.56	2492	1.36	0.44	4.75	46	2.4	28.07	3.10	96
0033 C180	16.60	2652	1.14	0.49	4.69	49	2.7	29.11	3.35	87
0034 C181	17.09	2654	1.14	0.59	4.55	50	2.5	35.51	3.87	29
0035 C182	18.60	2767	1.20	0.57	5.01	45	2.7	34.51	3.88	70
0036 C183	15.20	2444	1.28	0.50	4.50	41	2.5	29.83	3.31	122
0037 C184	19.60	2392	1.48	0.61	5.20	36	2.9	36.36	4.07	113
0038 C185	20.89	1836	1.24	0.61	5.50	26	2.4	36.49	4.14	29
0039 C186	16.72	2426	1.54	0.50	4.88	44	2.6	29.68	3.45	138
0040 C187	19.20	2210	1.54	0.63	5.32	33	2.6	36.85	4.31	66



ELEMENTS Zr
UNITS ppm
DETECTION LIMIT 0.1
DIGEST 4A/
ANALYTICAL FINISH MS
SAMPLE NUMBERS

0001 C148	130.0
0002 C149	212.6
0003 C150	224.3
0004 C151	220.4
0005 C152	233.1
0006 C153	211.0
0007 C154	220.9
0008 C155	229.1
0009 C156	233.9
0010 C157	220.9
0011 C158	216.0
0012 C159	214.0
0013 C160	206.7
0014 C161	215.7
0015 C162	211.5
0016 C163	218.3
0017 C164	203.6
0018 C165	196.6
0019 C166	197.9
0020 C167	209.9
0021 C168	231.7
0022 C169	211.9
0023 C170	211.9
0024 C171	217.0
0025 C172	218.2
0026 C173	270.3
0027 C174	206.1
0028 C175	228.9
0029 C176	219.8
0030 C177	8.9
0031 C178	276.6
0032 C179	219.2
0033 C180	224.6
0034 C181	255.4
0035 C182	243.1
0036 C183	207.5
0037 C184	231.0
0038 C185	208.7
0039 C186	207.4
0040 C187	217.5



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 C188	X	0.11	6.69%	12.0	394.3	2.66	0.61	7059	0.20	91.92
0042 C189	X	0.09	6.90%	15.5	383.7	2.58	0.57	7009	0.10	91.54
0043 C190	X	0.07	6.35%	12.7	362.3	2.29	0.42	8855	0.09	77.85
0044 C191	X	0.10	7.03%	13.7	366.0	2.51	0.57	7133	0.22	87.09
0045 C192	X	0.12	6.70%	16.7	382.6	2.48	0.59	9390	0.23	91.09
0046 C193	X	0.10	7.31%	10.7	424.8	2.72	0.67	4793	0.17	101.15
0047 C194	X	0.10	6.92%	9.6	451.8	2.39	0.51	6456	0.20	85.64
0048 C195	X	0.12	7.28%	10.7	443.5	2.61	0.50	3771	0.29	89.81
0049 C196	X	0.11	6.75%	14.1	455.6	2.46	0.43	6909	0.23	78.98
0050 C197	X	0.11	6.92%	19.2	440.2	2.92	0.55	5546	0.20	87.93
0051 C198	X	0.08	6.89%	9.3	369.1	2.53	0.69	1.22%	0.05	103.66
0052 C199	X	0.09	6.45%	10.9	463.3	2.83	0.55	6213	0.14	84.59
0053 C200	X	0.10	6.44%	16.7	451.9	2.48	0.45	7533	0.52	76.71
0054 C201	X	0.10	6.66%	9.9	482.5	2.90	0.41	6712	0.21	80.83
0055 C202	X	0.07	6.00%	7.3	490.4	2.29	0.30	1.24%	0.05	75.63
0056 C203	X	0.10	7.14%	8.2	489.4	3.33	0.49	4050	0.07	111.61
0057 C204	X	0.08	6.00%	9.5	447.4	2.36	0.39	2.31%	0.14	71.22
0058 C205	X	0.09	6.68%	23.8	548.4	2.81	0.48	5488	0.09	79.28
0059 C206	X	0.10	6.62%	33.2	565.2	3.05	0.50	6761	0.15	116.03
0060 C207	X	0.10	6.61%	27.9	607.4	2.93	0.51	5834	0.17	105.48
0061 C208	0.515	0.63	7.56%	217.7	305.2	2.90	3.93	2.87%	0.20	36.45
0062 C209	0.005	0.08	6.33%	23.1	600.6	2.73	0.48	6148	0.36	85.22
0063 C210	X	0.14	7.03%	79.1	508.4	3.09	0.64	5957	0.27	115.86
0064 C211	X	0.09	6.72%	26.9	533.3	2.77	0.55	5750	0.37	95.24
0065 C212	X	0.08	6.20%	44.7	305.8	2.65	0.69	5470	0.12	93.62
0066 C213	X	0.08	7.12%	43.0	277.2	3.30	1.14	5916	0.07	121.79
0067 C214	X	0.10	6.71%	49.3	457.4	2.72	0.57	6343	0.33	92.05
0068 C215	X	0.08	6.82%	23.6	327.9	2.56	0.52	8320	0.26	83.27
0069 C216	X	0.12	6.80%	16.4	281.7	2.67	0.60	5538	0.40	92.52
0070 C217	X	0.11	6.59%	23.4	302.0	2.33	0.59	6851	0.36	86.22
0071 C218	X	0.11	6.72%	31.5	316.9	2.50	0.60	6239	0.41	84.81
0072 C219	X	0.11	6.37%	30.1	327.6	2.27	0.58	9301	0.29	90.86
0073 C220	X	0.10	6.37%	27.5	352.4	2.76	0.60	9465	0.17	89.46
0074 C221	X	0.07	6.23%	10.5	360.0	3.01	0.53	1.09%	0.03	112.11
0075 C222	X	0.11	6.31%	31.2	440.3	2.68	0.49	8236	0.18	82.59
0076 C223	X	0.09	6.56%	13.3	391.5	2.91	0.81	5370	0.07	97.88
0077 C224	X	0.09	6.04%	11.9	478.4	2.51	0.38	9525	0.16	80.23
0078 C225	X	0.08	5.73%	12.7	491.0	2.15	0.35	8076	0.21	73.89
0079 C226	X	0.07	5.93%	12.5	491.2	2.39	0.33	7187	0.09	78.52
0080 C227	X	0.08	6.01%	20.8	446.7	2.38	0.36	8872	0.13	76.04



ELEMENTS	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
DETECTION LIMIT	0.1	1	0.05	0.5	0.01	0.01	0.01	0.01	0.05	0.01
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 C188	7.4	23	9.74	12.5	6.12	3.99	1.28	2.23	15.49	6.65
0042 C189	5.8	17	9.25	11.1	6.82	4.30	1.28	2.10	16.85	7.01
0043 C190	4.9	16	8.53	8.9	5.37	3.42	1.17	1.82	14.85	5.88
0044 C191	6.6	21	10.02	12.4	5.23	3.35	1.17	2.25	16.00	5.93
0045 C192	8.3	24	10.18	15.0	5.30	3.43	1.26	2.64	15.28	6.14
0046 C193	7.3	20	10.94	12.0	5.96	3.79	1.33	2.19	16.95	6.71
0047 C194	6.8	21	11.29	13.0	5.24	3.28	1.19	2.04	15.54	6.02
0048 C195	7.5	24	12.50	14.9	5.62	3.59	1.30	2.32	17.41	6.10
0049 C196	6.6	23	11.18	13.5	5.34	3.31	1.14	2.39	15.35	5.99
0050 C197	6.5	22	11.23	12.6	5.43	3.39	1.16	2.40	16.20	5.89
0051 C198	3.5	11	8.55	10.1	5.94	3.79	1.10	1.86	15.44	6.46
0052 C199	4.6	18	9.75	9.6	4.90	3.13	1.01	1.90	14.52	5.42
0053 C200	5.5	21	10.57	8.8	5.50	3.52	1.05	2.09	15.47	5.64
0054 C201	5.4	24	10.96	10.8	4.98	3.28	1.05	1.90	15.74	5.31
0055 C202	3.4	17	7.20	5.5	4.89	3.03	0.95	1.77	13.98	5.09
0056 C203	4.2	17	11.94	9.1	9.56	6.07	1.01	1.95	20.00	9.13
0057 C204	5.0	19	9.06	9.1	4.54	2.99	0.94	2.21	13.24	4.84
0058 C205	6.2	24	11.51	11.0	4.68	3.01	0.96	2.61	14.78	5.00
0059 C206	6.0	25	10.13	11.6	10.00	6.48	1.05	2.83	19.53	9.61
0060 C207	7.1	28	9.81	12.6	8.64	5.72	1.02	2.99	18.48	8.48
0061 C208	20.9	117	9.54	238.3	2.01	1.09	0.79	3.76	18.42	2.65
0062 C209	7.8	29	9.64	17.2	5.08	3.19	1.04	2.94	15.68	5.68
0063 C210	7.5	27	11.19	18.0	8.75	5.30	1.26	3.37	19.01	9.28
0064 C211	7.8	28	10.29	15.7	6.62	4.18	1.12	3.02	17.85	7.08
0065 C212	6.1	20	10.41	13.7	6.08	3.79	1.05	2.83	15.05	6.46
0066 C213	4.3	16	12.71	9.7	6.63	4.04	1.12	2.27	16.65	7.19
0067 C214	7.4	26	11.34	16.4	5.50	3.44	1.11	3.20	16.07	6.02
0068 C215	5.9	22	13.05	13.6	5.32	3.42	1.17	2.71	16.15	5.94
0069 C216	6.1	20	11.50	13.6	5.94	3.70	1.23	2.50	16.05	6.41
0070 C217	6.0	21	11.38	12.1	5.22	3.27	1.21	2.40	15.23	5.78
0071 C218	6.1	22	11.65	13.6	5.10	3.16	1.19	2.58	15.14	5.66
0072 C219	5.2	20	9.17	10.8	5.34	3.40	1.08	2.40	14.33	5.89
0073 C220	5.6	20	9.92	11.2	5.17	3.24	1.01	2.72	14.19	5.71
0074 C221	3.7	14	8.74	6.0	7.04	4.19	0.86	1.97	15.36	7.10
0075 C222	8.4	29	9.10	15.2	4.81	2.93	1.07	3.09	15.09	5.28
0076 C223	5.8	21	11.41	11.5	5.08	3.18	0.91	2.61	15.13	5.57
0077 C224	7.2	28	8.54	15.6	4.78	2.94	1.12	2.37	13.91	5.41
0078 C225	7.8	27	7.63	13.4	4.53	2.77	1.07	2.99	13.26	5.08
0079 C226	8.1	28	9.21	13.1	4.75	2.91	1.08	3.35	14.27	5.17
0080 C227	7.9	27	9.91	12.7	4.73	2.97	1.05	2.89	13.87	5.25



ELEMENTS	Ge	Hf	Ho	In	K	La	Li	Lu	Mg	Mn
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.1	0.05	0.01	0.01	20	0.01	0.1	0.01	20	1
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 C188	1.4	6.19	1.25	0.05	2.72%	45.00	19.9	0.60	7571	413
0042 C189	1.3	6.92	1.41	0.06	2.85%	44.12	18.5	0.65	7802	354
0043 C190	1.3	5.83	1.12	0.04	2.61%	37.96	18.0	0.53	7643	420
0044 C191	1.5	5.89	1.04	0.06	2.95%	42.10	19.6	0.53	7892	350
0045 C192	1.5	5.75	1.09	0.06	2.85%	43.98	20.8	0.54	8591	538
0046 C193	1.5	5.99	1.22	0.05	3.28%	48.82	20.2	0.61	8330	273
0047 C194	1.4	5.87	1.06	0.05	3.33%	41.94	20.0	0.51	8248	389
0048 C195	1.4	6.16	1.15	0.06	3.52%	44.98	21.2	0.58	7591	293
0049 C196	1.3	5.89	1.08	0.06	3.42%	38.58	20.8	0.51	8092	466
0050 C197	1.5	5.53	1.07	0.05	3.25%	43.15	21.5	0.55	7881	420
0051 C198	1.4	6.58	1.22	0.04	3.00%	50.12	15.3	0.55	8643	609
0052 C199	1.4	5.67	1.00	0.04	3.11%	40.93	20.9	0.50	7404	390
0053 C200	1.3	5.88	1.12	0.06	3.15%	37.52	21.1	0.54	7714	630
0054 C201	1.4	6.04	1.02	0.05	3.52%	40.30	23.4	0.50	7286	559
0055 C202	1.5	6.21	0.99	0.04	2.94%	38.20	16.1	0.49	7350	710
0056 C203	1.6	7.28	1.91	0.10	3.68%	54.18	22.2	0.93	7701	304
0057 C204	1.3	5.35	0.94	0.05	3.13%	35.60	20.4	0.50	1.15%	1451
0058 C205	1.5	5.48	0.98	0.04	3.71%	39.59	24.8	0.47	7557	351
0059 C206	1.5	7.23	2.06	0.10	3.67%	56.17	21.4	0.95	7222	395
0060 C207	1.4	6.99	1.79	0.09	3.86%	51.21	21.7	0.87	6792	358
0061 C208	1.6	2.06	0.38	0.17	1.84%	18.51	27.5	0.17	1.54%	544
0062 C209	1.3	6.09	1.03	0.05	3.44%	41.97	21.6	0.48	6468	402
0063 C210	1.5	7.48	1.78	0.09	2.28%	56.04	21.7	0.79	7565	352
0064 C211	1.3	6.32	1.35	0.07	2.37%	46.53	20.3	0.65	6625	317
0065 C212	1.4	5.97	1.23	0.05	19.95%	45.91	19.0	0.57	7499	258
0066 C213	1.4	6.98	1.36	0.06	3.34%	58.71	19.4	0.61	9033	281
0067 C214	1.5	5.52	1.10	0.05	3.47%	44.44	22.3	0.53	7308	304
0068 C215	1.6	5.79	1.10	0.06	3.38%	40.82	23.7	0.51	9498	485
0069 C216	1.3	6.03	1.21	0.05	2.70%	45.41	18.9	0.58	8070	274
0070 C217	1.4	5.40	1.06	0.07	3.11%	42.10	18.5	0.49	8065	303
0071 C218	1.4	5.51	1.03	0.06	2.47%	41.57	20.3	0.49	7822	302
0072 C219	1.4	5.78	1.10	0.05	2.52%	44.34	18.0	0.52	7420	524
0073 C220	1.3	4.97	1.02	0.05	2.68%	43.62	18.8	0.49	7672	623
0074 C221	1.4	5.64	1.36	0.05	2.98%	55.67	16.6	0.63	8130	1002
0075 C222	1.3	5.30	0.99	0.05	2.07%	40.72	19.1	0.42	6944	1174
0076 C223	1.5	5.68	1.00	0.04	2.38%	48.73	20.5	0.49	7599	1133
0077 C224	1.6	5.75	0.97	0.04	4.40%	39.57	18.8	0.43	5876	979
0078 C225	1.4	5.64	0.92	0.04	4.16%	36.71	16.9	0.41	6447	2030
0079 C226	1.4	5.27	0.95	0.04	4.17%	38.43	21.4	0.42	7069	2618
0080 C227	1.5	5.02	0.96	0.04	4.27%	37.36	24.6	0.46	7393	2132



ELEMENTS	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	Re
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.1	20	0.05	0.01	0.5	50	0.5	0.01	0.05	0.002
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 C188	2.9	1.40%	12.11	39.54	17.0	369	32.8	10.60	175.72	X
0042 C189	2.6	1.25%	13.10	40.31	13.7	346	28.3	10.64	178.44	X
0043 C190	2.0	1.19%	10.34	33.83	9.8	363	23.4	8.95	165.69	X
0044 C191	3.0	1.33%	11.85	37.01	13.7	396	32.9	10.02	182.22	X
0045 C192	3.5	1.46%	11.76	38.64	16.9	390	54.5	10.49	180.57	X
0046 C193	3.0	1.19%	13.06	43.02	14.6	375	32.3	11.63	202.56	X
0047 C194	2.5	1.06%	12.05	36.74	13.1	332	29.3	9.92	203.61	X
0048 C195	2.5	1.20%	11.71	37.82	15.6	380	43.2	10.40	219.42	0.003
0049 C196	2.1	1.13%	10.97	34.47	12.8	409	39.9	9.13	209.74	X
0050 C197	2.6	1.32%	12.10	36.67	12.3	405	46.5	9.91	204.67	X
0051 C198	2.4	1.49%	14.29	41.71	5.6	533	22.3	11.59	183.68	X
0052 C199	1.7	1.19%	12.10	35.03	8.5	412	29.0	9.52	194.72	X
0053 C200	1.9	1.15%	11.79	32.27	11.8	373	60.0	8.85	196.05	X
0054 C201	2.0	1.09%	13.06	33.75	11.3	463	29.2	9.19	211.46	X
0055 C202	1.1	1.40%	12.10	32.16	6.0	483	16.9	8.68	166.29	X
0056 C203	2.3	8474	29.69	46.66	7.9	427	23.5	12.66	224.88	X
0057 C204	2.3	1.42%	9.73	29.70	8.6	491	21.3	8.27	181.78	X
0058 C205	1.9	9597	11.40	32.68	11.6	451	25.9	8.86	220.29	X
0059 C206	3.0	8764	29.93	49.88	13.0	519	40.1	13.39	195.48	X
0060 C207	3.1	9034	25.03	45.48	13.5	526	42.7	12.26	204.96	X
0061 C208	11.3	1.80%	4.97	15.77	259.8	491	73.0	4.17	190.67	0.002
0062 C209	2.8	8666	14.44	35.92	15.6	533	47.3	9.77	172.45	X
0063 C210	4.0	1.02%	20.11	50.82	17.2	508	86.6	13.48	121.02	0.002
0064 C211	3.7	1.10%	18.02	40.04	16.6	516	54.6	11.08	121.44	0.002
0065 C212	3.1	1.15%	12.04	38.40	12.4	404	38.0	10.57	120.64	X
0066 C213	3.5	7222	17.39	48.02	7.8	456	35.7	13.52	207.84	X
0067 C214	3.4	1.31%	12.13	37.33	14.7	473	51.6	10.16	199.17	0.004
0068 C215	2.6	1.01%	11.63	34.93	11.2	512	40.5	9.37	211.90	X
0069 C216	2.9	1.05%	12.26	38.71	11.0	387	68.2	10.44	168.34	X
0070 C217	2.6	1.10%	11.29	36.20	11.5	406	67.9	9.66	193.86	0.002
0071 C218	2.5	1.16%	11.51	35.59	12.2	493	65.4	9.77	152.20	0.003
0072 C219	2.4	1.15%	11.89	36.94	10.2	505	44.7	10.29	152.06	X
0073 C220	2.5	1.09%	12.53	36.51	10.8	364	38.2	10.00	159.14	0.002
0074 C221	2.6	8987	16.37	44.94	6.4	395	16.9	12.54	184.46	X
0075 C222	3.1	9865	11.61	33.42	15.9	593	36.8	9.22	99.88	0.002
0076 C223	2.7	6606	14.86	37.15	9.9	582	27.7	10.76	134.65	X
0077 C224	4.3	1.49%	10.62	33.99	13.6	695	32.8	9.18	218.29	0.003
0078 C225	1.9	6894	10.01	31.38	12.2	765	28.3	8.61	208.41	X
0079 C226	1.6	5979	10.68	32.98	11.8	857	23.9	8.92	219.85	X
0080 C227	1.8	5292	10.58	32.28	12.5	758	24.6	8.67	227.50	X



ELEMENTS	S	Sb	Sc	Se	Sm	Sn	Sr	Ta	Tb	Te
UNITS	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.05	0.05	0.1	0.5	0.01	0.1	0.05	0.01	0.01	0.2
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 C188	0.89	1.84	8.2	X	7.46	3.0	67.13	1.03	0.96	X
0042 C189	0.71	2.11	7.6	X	7.40	3.3	63.80	1.07	1.04	X
0043 C190	0.54	1.64	7.4	X	6.20	2.6	62.47	0.86	0.86	X
0044 C191	1.00	2.12	8.0	X	6.62	3.0	65.07	1.03	0.81	X
0045 C192	1.33	2.50	8.1	X	7.03	3.0	70.73	0.99	0.85	X
0046 C193	0.57	1.92	8.3	X	7.76	3.2	63.86	1.13	0.96	X
0047 C194	0.46	1.98	8.2	X	6.77	2.9	68.25	1.05	0.84	X
0048 C195	0.67	2.42	8.7	X	6.90	3.0	66.67	1.00	0.89	X
0049 C196	0.74	2.55	8.4	X	6.27	2.9	68.16	0.96	0.86	X
0050 C197	0.83	2.90	8.6	X	6.40	3.1	68.05	1.00	0.86	X
0051 C198	0.35	1.58	5.6	X	7.07	3.8	71.56	1.16	0.94	X
0052 C199	0.41	1.81	6.8	X	6.12	2.9	66.87	1.03	0.80	X
0053 C200	0.66	2.12	7.0	X	6.02	2.9	67.87	0.99	0.85	X
0054 C201	0.46	1.75	7.2	X	6.03	3.1	70.01	1.07	0.81	X
0055 C202	0.27	1.13	4.9	X	5.75	2.6	74.55	0.97	0.77	X
0056 C203	0.54	1.58	5.7	X	8.74	5.5	57.64	2.15	1.37	X
0057 C204	0.59	1.65	5.8	X	5.32	2.4	74.84	0.83	0.72	X
0058 C205	1.07	2.42	7.0	X	5.83	2.8	63.35	1.00	0.75	X
0059 C206	1.55	2.55	6.9	X	9.79	5.4	64.17	2.05	1.49	X
0060 C207	1.65	2.37	7.4	X	8.62	4.8	62.70	1.83	1.29	X
0061 C208	0.18	5.00	9.4	X	2.92	13.8	182.28	0.81	0.34	X
0062 C209	1.50	2.08	8.0	0.6	6.37	3.1	60.37	1.12	0.82	X
0063 C210	2.07	2.53	8.1	X	9.45	4.4	67.05	1.52	1.37	X
0064 C211	1.82	2.38	8.1	X	7.51	4.4	66.18	1.48	1.06	X
0065 C212	1.58	2.44	7.1	X	6.81	3.2	61.87	1.06	0.95	X
0066 C213	0.93	1.85	7.0	X	8.24	4.4	61.12	1.59	1.06	X
0067 C214	1.99	3.02	8.6	X	6.65	3.1	69.82	1.00	0.86	X
0068 C215	1.20	2.13	8.6	0.6	6.22	3.0	70.49	0.99	0.83	X
0069 C216	1.28	1.88	8.4	0.5	6.94	3.0	63.87	1.02	0.94	X
0070 C217	1.26	2.03	8.1	X	6.43	2.8	66.53	0.96	0.85	X
0071 C218	1.33	2.53	8.6	X	6.21	3.0	66.10	0.97	0.81	X
0072 C219	1.08	2.23	7.1	X	6.43	3.0	68.39	1.02	0.83	X
0073 C220	1.39	2.02	6.8	X	6.40	3.0	68.10	1.06	0.80	X
0074 C221	0.46	1.38	5.4	X	7.99	3.9	64.51	1.35	1.06	X
0075 C222	1.12	3.12	8.1	X	6.04	3.0	60.90	1.00	0.77	X
0076 C223	0.40	1.83	6.7	X	6.40	3.7	56.20	1.33	0.81	X
0077 C224	0.63	1.82	7.5	X	6.06	2.7	62.03	0.87	0.77	X
0078 C225	0.48	1.53	7.5	X	5.53	2.4	57.41	0.86	0.71	X
0079 C226	0.32	1.54	7.3	X	5.80	2.6	58.40	0.89	0.74	X
0080 C227	0.45	2.10	7.5	X	5.79	2.7	58.96	0.89	0.76	X



ELEMENTS	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.01	5	0.02	0.01	0.01	1	0.1	0.05	0.01	1
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 C188	16.85	2266	1.38	0.57	4.85	37	2.4	33.66	3.87	106
0042 C189	17.72	2110	1.34	0.63	4.78	28	2.3	37.86	4.22	58
0043 C190	14.65	2110	1.12	0.50	3.86	29	2.1	30.27	3.38	50
0044 C191	17.60	2299	1.79	0.49	4.73	38	2.3	28.63	3.29	106
0045 C192	17.19	2314	2.00	0.50	4.86	41	2.4	29.74	3.48	135
0046 C193	20.01	2235	1.31	0.58	5.29	33	2.6	33.30	3.82	90
0047 C194	17.67	2176	1.29	0.48	4.80	34	2.3	28.63	3.33	104
0048 C195	17.55	2504	1.43	0.53	4.92	42	2.4	30.65	3.65	165
0049 C196	16.04	2352	1.60	0.47	4.11	35	2.2	29.20	3.24	136
0050 C197	17.42	2436	1.98	0.50	4.56	38	2.4	29.63	3.38	113
0051 C198	24.21	2180	1.08	0.54	6.25	23	2.9	33.89	3.72	33
0052 C199	18.01	1936	1.30	0.46	4.66	26	2.4	27.10	3.16	67
0053 C200	15.48	2120	1.60	0.50	4.03	34	2.3	30.44	3.44	233
0054 C201	16.05	2263	1.23	0.47	4.40	38	2.3	28.16	3.21	102
0055 C202	14.62	1682	0.99	0.45	3.92	22	2.0	26.79	3.10	19
0056 C203	21.11	1893	1.31	0.91	5.38	26	2.1	52.97	6.07	41
0057 C204	14.64	1897	0.97	0.44	3.56	29	2.4	27.13	3.02	68
0058 C205	17.19	2252	1.66	0.45	4.11	36	2.7	27.58	3.04	44
0059 C206	19.90	2223	2.28	0.94	5.30	38	2.3	54.46	6.46	73
0060 C207	19.08	2343	2.17	0.83	5.05	40	2.6	48.94	5.64	97
0061 C208	7.46	3037	1.73	0.16	2.28	74	26.9	10.17	1.08	108
0062 C209	16.44	2567	1.79	0.47	4.18	46	2.5	27.67	3.08	171
0063 C210	20.75	2645	4.13	0.77	5.32	46	2.8	45.54	5.07	128
0064 C211	18.53	2555	1.65	0.63	5.22	47	2.9	36.98	4.13	147
0065 C212	18.41	2140	2.44	0.56	4.87	37	2.9	33.05	3.74	73
0066 C213	30.64	2190	2.07	0.60	7.73	27	3.5	36.47	4.03	28
0067 C214	16.68	2545	1.55	0.51	4.50	44	3.1	30.48	3.47	190
0068 C215	16.91	2522	1.40	0.47	3.99	37	2.7	29.70	3.38	159
0069 C216	17.78	2321	1.55	0.54	4.47	36	2.6	32.22	3.62	267
0070 C217	16.87	2258	1.65	0.47	4.25	34	2.4	29.35	3.20	212
0071 C218	16.32	2462	1.74	0.48	4.25	37	2.7	28.56	3.19	245
0072 C219	18.18	2184	1.67	0.49	4.85	30	2.8	30.21	3.24	153
0073 C220	19.54	1967	5.69	0.48	4.84	29	3.1	28.74	3.20	90
0074 C221	25.77	1645	1.23	0.60	5.72	19	2.3	36.42	4.16	12
0075 C222	16.31	2456	2.26	0.41	4.45	41	3.1	26.79	2.89	105
0076 C223	25.33	2041	1.42	0.47	6.37	27	3.0	28.17	3.13	43
0077 C224	14.65	2459	1.43	0.42	4.01	38	3.3	26.15	2.89	82
0078 C225	14.07	2330	1.39	0.39	3.68	36	2.0	24.73	2.69	91
0079 C226	14.78	2330	1.25	0.40	3.64	35	2.0	25.54	2.76	65
0080 C227	14.84	2279	1.45	0.43	3.60	36	2.2	26.55	2.83	67



ELEMENTS Zr
UNITS ppm
DETECTION LIMIT 0.1
DIGEST 4A/
ANALYTICAL FINISH MS
SAMPLE NUMBERS

0041 C188	219.5
0042 C189	240.9
0043 C190	211.2
0044 C191	199.7
0045 C192	205.8
0046 C193	203.0
0047 C194	198.4
0048 C195	215.9
0049 C196	204.3
0050 C197	199.5
0051 C198	229.1
0052 C199	193.5
0053 C200	205.2
0054 C201	208.5
0055 C202	215.4
0056 C203	217.3
0057 C204	188.4
0058 C205	191.5
0059 C206	224.1
0060 C207	221.2
0061 C208	77.1
0062 C209	218.4
0063 C210	245.6
0064 C211	216.9
0065 C212	203.6
0066 C213	233.2
0067 C214	200.0
0068 C215	200.4
0069 C216	208.7
0070 C217	191.4
0071 C218	191.1
0072 C219	204.9
0073 C220	168.8
0074 C221	178.6
0075 C222	191.3
0076 C223	189.3
0077 C224	198.2
0078 C225	201.7
0079 C226	189.6
0080 C227	183.6



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										
0081 C228	X	0.07	6.21%	11.5	451.2	2.21	0.46	4843	0.14	75.36
0082 C229	X	0.07	6.49%	7.5	398.7	2.85	0.64	6498	0.04	89.25
0083 C230	X	0.06	5.83%	14.7	524.3	3.03	0.50	9622	0.17	84.25
0084 C231	X	0.11	6.66%	33.2	532.6	4.73	1.13	7827	0.06	130.71
0085 C232	X	0.10	6.50%	10.8	577.7	4.58	0.45	3680	0.16	94.39
0086 C233	X	0.09	5.98%	10.1	545.7	4.77	0.35	1.23%	0.15	88.60
0087 C234	X	0.13	6.65%	30.0	524.0	6.48	0.50	2357	0.22	154.50
0088 C235	X	0.06	5.97%	2.7	588.3	4.69	0.31	9079	0.03	176.14
0089 C236	X	0.09	7.00%	5.7	586.6	6.21	0.34	3656	X	220.82
0090 C237	X	0.10	6.89%	5.3	645.7	6.27	0.38	546	X	216.64
0091 C238	X	0.11	6.90%	4.3	639.2	6.47	0.35	529	0.03	219.07
0092 C239	4.898	3.24	5.17%	802.8	244.5	0.76	3.83	5.37%	2.40	29.38
0093 C240	X	0.08	6.38%	6.0	721.8	3.43	0.34	3841	0.02	232.14
0094 C241	X	0.08	7.00%	3.9	704.3	3.46	0.34	713	0.11	264.88
0095 C242	X	0.05	7.52%	4.3	648.1	3.57	0.38	301	0.02	264.75
0096 C243	X	X	6.76%	2.6	621.9	2.45	0.30	1134	0.02	229.11
0097 C244	X	X	5.91%	2.0	521.6	1.80	0.30	9640	0.08	195.58
0098 C245	X	X	5.72%	1.9	482.9	1.64	0.26	1.15%	0.08	190.50
0099 C246	X	0.06	6.23%	3.2	601.9	2.96	0.31	4379	0.12	162.89
0100 C247	X	0.09	5.58%	5.2	590.3	1.97	0.30	1.53%	0.06	167.75
0101 C248	X	0.05	5.33%	6.4	491.0	1.59	0.28	1.44%	0.12	156.04
0102 C249	X	0.06	6.08%	4.2	980.5	3.34	0.39	6022	0.07	136.41
0103 C250	X	0.11	7.08%	8.4	802.8	5.00	0.42	4648	0.06	170.52
0104 C251	X	0.06	5.93%	4.2	469.2	3.50	0.30	7485	0.03	178.47
0105 C252	X	0.06	6.94%	3.5	674.5	5.06	0.36	4588	0.04	192.76
0106 C253	X	0.11	5.96%	13.5	572.4	4.24	0.35	7127	0.14	74.95
0107 C254	X	0.09	4.68%	14.4	597.0	2.07	0.20	1.79%	0.06	53.77
0108 C255	X	0.09	6.59%	15.9	517.8	3.40	0.34	7250	0.14	76.03
0109 C256	X	0.07	5.89%	16.1	460.5	2.36	0.34	1.05%	0.15	70.35
0110 C257	X	0.06	7.10%	9.1	495.3	2.82	0.49	4395	0.06	103.45
0111 C258	X	0.07	6.26%	10.1	531.0	2.09	0.38	5395	0.16	77.51
0112 C259	X	0.08	6.96%	13.0	525.3	2.77	0.48	6182	0.28	96.55
0113 C260	X	0.06	6.24%	11.3	542.4	2.14	0.39	6979	0.13	75.97
0114 C261	X	0.07	6.12%	14.0	483.6	2.17	0.41	1.14%	0.07	73.10
0115 C262	X	0.05	7.20%	5.7	389.2	2.47	0.67	3102	0.03	91.52
0116 C263	X	0.08	6.16%	10.1	488.1	2.25	0.41	6732	0.19	76.14
0117 C264	X	0.11	6.76%	20.8	467.1	2.73	0.43	7377	0.11	88.38
0118 C265	X	0.07	7.05%	8.8	436.6	2.67	0.48	5955	0.09	103.89
0119 C266	X	0.05	6.75%	8.0	574.2	2.45	0.37	3325	0.26	82.36
0120 C267	X	0.07	6.58%	10.1	520.1	2.43	0.37	1.11%	0.15	77.31



ELEMENTS	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
DETECTION LIMIT	0.1	1	0.05	0.5	0.01	0.01	0.01	0.01	0.05	0.01
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										
0081 C228	6.3	26	9.84	12.6	4.51	2.87	0.98	2.06	14.13	4.92
0082 C229	4.0	15	10.32	6.9	5.04	3.23	0.99	2.15	13.89	5.32
0083 C230	5.5	26	9.73	10.7	4.62	2.97	0.87	1.89	13.61	5.00
0084 C231	4.6	15	10.13	9.5	6.07	3.57	0.88	2.58	15.35	6.89
0085 C232	5.6	23	7.26	17.3	5.54	3.50	1.02	1.68	15.19	5.96
0086 C233	4.4	20	7.08	9.3	5.87	3.72	0.92	1.97	14.38	6.26
0087 C234	5.8	18	8.12	9.6	11.76	7.26	0.85	1.92	21.01	12.12
0088 C235	1.6	11	5.42	3.3	15.61	9.60	0.80	1.52	19.93	15.97
0089 C236	1.8	8	8.34	3.4	16.99	10.42	0.79	1.23	25.06	16.59
0090 C237	1.5	7	7.44	3.4	19.33	11.64	0.78	1.34	26.19	18.53
0091 C238	1.3	6	7.18	3.1	17.85	11.05	0.72	1.14	26.57	17.77
0092 C239	53.9	1192	2.52	706.5	2.39	1.53	0.69	5.70	11.99	2.76
0093 C240	1.2	8	2.91	3.0	18.13	11.57	0.74	1.66	25.11	18.89
0094 C241	1.3	7	2.95	2.7	18.79	11.92	0.82	1.92	28.00	20.95
0095 C242	1.4	9	3.17	2.6	19.58	12.63	0.91	1.40	34.46	21.73
0096 C243	1.1	7	2.29	1.6	16.61	10.85	0.78	1.47	25.14	18.16
0097 C244	0.9	8	1.64	1.6	13.97	9.33	0.66	1.41	20.61	14.44
0098 C245	0.8	9	1.58	2.8	15.08	8.03	0.69	1.47	19.66	13.94
0099 C246	1.5	11	2.65	4.1	11.54	7.04	0.78	1.56	21.45	12.98
0100 C247	1.8	9	1.89	3.5	11.89	7.62	0.93	2.49	18.94	13.15
0101 C248	1.4	9	1.50	2.2	11.98	7.89	0.80	1.76	16.23	11.84
0102 C249	2.0	11	3.07	3.4	9.63	5.76	0.93	1.55	19.39	10.09
0103 C250	2.8	11	4.28	32.7	11.34	6.84	1.15	2.15	22.85	12.04
0104 C251	2.0	13	3.64	2.9	13.62	8.55	0.94	1.73	23.62	13.60
0105 C252	2.3	12	6.02	6.6	12.40	7.60	1.28	1.66	22.77	14.21
0106 C253	7.2	30	6.56	8.9	4.58	2.70	0.84	2.17	13.46	4.99
0107 C254	7.7	27	4.35	6.9	3.50	2.09	0.81	2.78	10.18	3.97
0108 C255	8.6	29	10.18	13.9	4.70	2.90	1.08	3.18	15.21	5.21
0109 C256	8.7	28	8.97	11.0	4.29	2.52	0.99	3.81	13.35	4.77
0110 C257	7.1	30	12.26	14.0	5.59	3.33	1.22	2.33	17.44	6.28
0111 C258	8.9	34	9.39	14.6	4.26	2.61	0.98	2.39	14.46	4.91
0112 C259	10.2	34	11.94	17.4	5.34	3.27	1.13	2.64	16.63	6.24
0113 C260	9.5	37	8.96	15.3	4.13	2.50	1.01	2.80	14.78	4.78
0114 C261	8.5	30	9.91	11.1	3.84	2.39	0.93	2.57	13.12	4.31
0115 C262	5.9	20	14.09	11.1	4.15	2.56	0.93	2.01	14.33	4.68
0116 C263	8.7	36	10.51	15.0	4.22	2.50	0.98	2.66	14.60	4.80
0117 C264	8.6	31	12.72	16.7	5.05	3.00	1.14	3.30	15.54	5.58
0118 C265	6.3	24	13.12	14.2	6.07	3.68	1.24	2.19	16.38	6.74
0119 C266	7.2	38	11.38	15.8	4.46	2.79	1.03	2.20	16.51	5.13
0120 C267	7.5	36	10.93	14.1	4.42	2.76	1.08	2.86	15.28	5.05



ELEMENTS	Ge	Hf	Ho	In	K	La	Li	Lu	Mg	Mn
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.1	0.05	0.01	0.01	20	0.01	0.1	0.01	20	1
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										
0081 C228	1.5	4.75	0.90	0.04	3.73%	37.13	25.8	0.44	5967	619
0082 C229	1.5	5.10	1.03	0.04	2.59%	43.89	24.2	0.51	7515	784
0083 C230	1.3	4.98	0.93	0.04	4.02%	41.18	26.7	0.43	6294	1000
0084 C231	1.4	5.96	1.20	0.04	3.82%	62.56	25.6	0.52	7686	1095
0085 C232	1.5	5.91	1.14	0.05	2.75%	46.73	23.9	0.52	4925	489
0086 C233	1.3	5.71	1.22	0.04	2.72%	43.33	27.2	0.56	7566	1217
0087 C234	1.6	7.38	2.38	0.11	5.20%	75.85	30.3	1.04	5294	395
0088 C235	1.6	7.13	3.13	0.10	3.96%	85.00	19.6	1.33	6860	941
0089 C236	2.3	9.36	3.51	0.12	3.87%	107.15	24.0	1.44	6759	327
0090 C237	2.3	9.73	3.87	0.10	3.95%	105.76	24.8	1.63	5729	191
0091 C238	2.1	9.66	3.62	0.12	2.56%	105.71	25.2	1.52	5699	172
0092 C239	0.9	1.59	0.49	0.22	7471	14.22	25.8	0.23	2.47%	1018
0093 C240	1.1	10.13	3.74	0.12	3.31%	112.60	16.1	1.61	4706	574
0094 C241	1.2	11.00	3.78	0.11	2.45%	126.97	20.6	1.69	4341	137
0095 C242	1.2	12.26	4.43	0.09	3.75%	129.26	17.7	1.87	3976	76
0096 C243	1.1	10.38	3.58	0.08	1.70%	108.42	18.1	1.60	3494	142
0097 C244	1.2	9.09	2.79	0.08	2.53%	95.71	9.4	1.39	4969	776
0098 C245	1.1	8.44	2.50	0.10	2.36%	92.89	9.3	1.23	5297	923
0099 C246	1.4	7.89	2.27	0.08	3.67%	80.44	13.9	1.04	4230	653
0100 C247	1.0	7.88	2.51	0.14	2.65%	81.37	9.6	1.17	6702	1326
0101 C248	1.0	7.85	2.59	0.12	2.39%	78.53	9.3	1.19	6118	1073
0102 C249	1.3	7.40	1.94	0.07	2.96%	68.95	16.8	0.86	5129	500
0103 C250	1.2	8.84	2.26	0.10	3.21%	84.78	23.6	1.00	6524	441
0104 C251	1.2	7.99	2.72	0.07	2.71%	88.32	18.1	1.22	5719	622
0105 C252	1.3	8.67	2.49	0.08	2.75%	93.91	22.6	1.07	6336	605
0106 C253	1.5	5.72	0.85	0.04	1.92%	37.70	27.2	0.42	5982	850
0107 C254	0.9	5.25	0.69	0.03	3.43%	26.48	15.2	0.33	8048	2356
0108 C255	1.5	5.87	0.96	0.04	4.46%	38.03	33.3	0.44	8065	1433
0109 C256	1.5	5.27	0.83	0.04	4.32%	34.86	26.5	0.38	9021	2237
0110 C257	1.7	6.61	1.14	0.05	2.96%	52.09	32.2	0.50	7830	609
0111 C258	1.4	5.31	0.83	0.04	3.77%	38.86	23.3	0.38	6907	815
0112 C259	1.5	5.75	1.06	0.05	3.43%	47.72	28.8	0.47	8423	850
0113 C260	1.2	5.53	0.83	0.04	4.66%	38.63	20.8	0.40	7441	1231
0114 C261	1.3	5.35	0.77	0.04	4.29%	37.18	23.1	0.38	8795	1534
0115 C262	1.5	5.20	0.85	0.03	4.42%	45.68	25.7	0.45	8528	406
0116 C263	1.3	4.98	0.84	0.05	4.57%	38.25	25.1	0.38	7983	922
0117 C264	1.4	5.90	0.98	0.04	3.75%	45.19	28.9	0.44	9585	849
0118 C265	1.5	6.38	1.20	0.06	4.44%	51.87	27.3	0.54	9552	444
0119 C266	1.5	5.33	0.90	0.05	2.60%	41.44	32.2	0.41	7483	333
0120 C267	1.4	5.69	0.92	0.04	4.34%	39.53	36.5	0.42	1.01%	1026



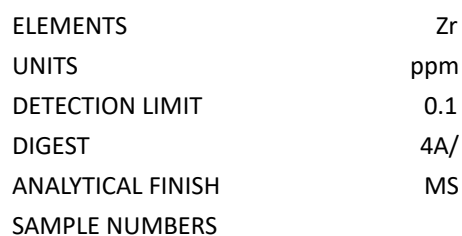
ELEMENTS	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	Re
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.1	20	0.05	0.01	0.5	50	0.5	0.01	0.05	0.002
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
SAMPLE NUMBERS										
0081 C228	1.9	6761	10.64	31.05	12.5	535	26.1	8.61	197.93	X
0082 C229	1.8	4532	12.70	34.91	6.7	421	17.1	9.90	153.36	X
0083 C230	2.6	5772	12.64	33.16	10.2	525	26.5	9.36	201.52	0.002
0084 C231	3.3	4623	21.19	49.79	6.6	457	44.8	14.35	216.29	X
0085 C232	2.4	5678	15.13	38.55	9.9	444	28.9	10.72	126.64	X
0086 C233	1.8	4611	15.35	37.45	6.5	411	15.0	10.15	137.10	X
0087 C234	3.5	3417	36.84	64.72	8.9	310	40.4	17.60	266.99	X
0088 C235	4.8	5278	38.59	76.75	3.1	210	12.8	20.69	203.30	X
0089 C236	3.1	926	53.85	92.19	2.8	175	16.8	25.21	243.02	X
0090 C237	2.5	910	55.72	90.46	1.8	157	11.2	25.03	248.95	X
0091 C238	1.9	844	55.91	92.07	1.6	141	8.2	24.99	154.05	X
0092 C239	9.3	7689	2.66	12.44	257.2	248	915.7	3.20	35.83	0.002
0093 C240	4.0	1.26%	61.03	98.83	2.0	121	103.2	26.54	162.69	X
0094 C241	2.7	1.34%	67.31	115.26	1.9	121	31.2	30.78	114.90	X
0095 C242	5.1	1.31%	73.40	110.82	2.2	144	18.8	30.44	167.33	X
0096 C243	5.3	1.65%	64.13	100.84	1.7	113	9.1	26.73	68.38	X
0097 C244	3.1	2.24%	57.36	83.43	1.4	90	7.5	22.63	98.86	X
0098 C245	3.9	2.20%	54.34	80.75	1.3	111	7.1	21.84	93.02	X
0099 C246	3.2	1.67%	42.26	67.94	2.4	134	17.1	18.73	167.40	X
0100 C247	3.6	2.02%	44.91	71.38	2.2	111	24.2	19.29	109.88	X
0101 C248	2.5	2.00%	47.58	64.33	1.5	105	93.5	17.67	91.78	X
0102 C249	3.0	3493	27.77	54.30	2.7	200	10.1	15.24	114.59	X
0103 C250	2.8	3625	34.90	71.26	3.5	265	34.0	19.68	146.17	X
0104 C251	2.8	1.41%	43.27	74.58	3.2	161	11.2	20.50	139.59	X
0105 C252	4.0	9049	46.47	84.62	4.4	205	18.7	22.68	134.93	X
0106 C253	2.0	3200	10.76	30.98	10.3	536	21.0	8.57	85.23	X
0107 C254	1.2	2807	7.64	23.23	8.3	575	16.9	6.28	152.86	X
0108 C255	1.6	2706	10.64	31.88	12.0	687	24.3	8.72	225.48	0.002
0109 C256	1.9	3272	9.99	29.40	12.8	665	27.7	8.07	220.89	X
0110 C257	1.9	3417	13.26	42.09	12.8	557	28.4	11.66	154.32	X
0111 C258	2.3	4043	11.08	31.51	16.1	510	27.9	8.75	185.16	X
0112 C259	2.5	3488	13.46	39.30	16.2	572	39.7	10.94	177.33	X
0113 C260	1.9	4105	11.32	31.58	15.7	547	29.6	8.73	229.49	X
0114 C261	1.6	3494	10.64	29.10	11.5	521	24.5	8.11	233.26	X
0115 C262	1.7	2027	13.19	33.56	9.2	442	17.2	9.78	268.97	X
0116 C263	2.1	3113	11.16	31.82	14.6	590	25.3	8.75	237.91	X
0117 C264	2.2	2993	12.41	36.52	14.7	593	29.9	10.22	209.34	X
0118 C265	2.6	2423	14.08	42.78	13.6	385	27.4	11.89	258.84	X
0119 C266	2.4	3231	12.08	34.08	15.7	520	31.9	9.39	133.01	0.003
0120 C267	1.5	2713	11.67	32.03	13.1	599	21.3	8.77	234.96	X



ELEMENTS	S	Sb	Sc	Se	Sm	Sn	Sr	Ta	Tb	Te
UNITS	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.05	0.05	0.1	0.5	0.01	0.1	0.05	0.01	0.01	0.2
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										
0081 C228	0.34	1.62	7.2	X	5.56	2.6	55.61	0.93	0.71	X
0082 C229	0.26	1.31	6.0	X	6.15	2.8	50.65	1.15	0.79	X
0083 C230	0.31	1.64	6.4	X	5.95	3.2	57.02	1.16	0.74	X
0084 C231	0.62	2.34	5.0	X	8.38	5.2	59.98	2.07	0.97	X
0085 C232	0.44	1.58	7.1	X	6.64	3.2	58.41	1.24	0.85	X
0086 C233	0.21	1.21	6.5	X	6.84	3.2	61.93	1.23	0.93	X
0087 C234	0.79	1.81	6.1	X	12.25	7.1	66.81	2.63	1.81	X
0088 C235	0.11	0.68	4.7	X	15.08	7.1	54.37	2.71	2.44	X
0089 C236	0.28	0.80	4.7	X	17.46	9.8	48.37	3.80	2.67	X
0090 C237	0.15	0.79	4.1	0.7	18.23	10.4	35.73	3.86	2.94	X
0091 C238	0.13	0.73	4.3	X	17.92	10.7	34.83	3.83	2.81	X
0092 C239	0.92	32.33	19.9	1.0	2.72	2.9	83.90	0.48	0.40	0.8
0093 C240	0.19	1.07	4.2	X	19.18	11.8	29.17	4.17	2.81	X
0094 C241	0.11	0.73	4.1	X	22.43	12.9	25.20	4.55	3.01	X
0095 C242	0.11	0.86	4.6	X	22.33	14.9	27.33	5.01	3.16	X
0096 C243	0.11	0.70	3.6	X	19.68	13.3	23.93	4.45	2.87	X
0097 C244	0.09	0.69	3.5	X	16.01	6.5	28.16	3.90	2.06	X
0098 C245	0.07	0.59	3.8	X	15.18	6.0	27.49	3.65	1.94	X
0099 C246	0.26	0.80	4.0	X	12.98	8.6	31.76	2.90	1.85	X
0100 C247	0.92	0.93	4.1	X	13.83	7.2	27.64	3.08	2.96	X
0101 C248	0.24	0.83	3.4	X	12.16	5.2	30.88	3.33	1.80	X
0102 C249	0.27	0.88	5.1	X	9.93	6.7	49.13	1.82	1.44	X
0103 C250	0.30	1.12	5.8	X	13.06	7.3	59.10	2.51	1.75	X
0104 C251	0.23	0.81	4.0	X	14.38	9.7	46.46	2.94	2.04	X
0105 C252	0.17	0.79	5.7	X	15.92	7.6	55.45	3.30	1.96	X
0106 C253	0.45	1.72	6.6	X	5.22	2.7	49.63	0.95	0.69	X
0107 C254	0.26	1.63	5.3	X	4.17	2.0	51.70	0.68	0.57	X
0108 C255	0.60	1.84	8.1	X	5.63	2.7	48.67	0.92	0.76	X
0109 C256	0.48	1.71	7.5	X	5.31	2.4	48.45	0.87	0.72	X
0110 C257	0.31	1.41	8.3	X	7.29	3.4	48.29	1.14	0.91	X
0111 C258	0.45	1.64	8.3	X	5.55	2.7	47.52	0.95	0.68	X
0112 C259	0.44	1.86	8.9	0.5	7.11	3.4	50.62	1.09	0.86	X
0113 C260	0.45	1.59	8.0	X	5.41	2.9	49.68	0.98	0.67	X
0114 C261	0.36	1.64	6.6	X	5.05	2.5	53.76	0.99	0.63	X
0115 C262	0.19	1.21	6.2	X	5.34	2.8	39.46	1.28	0.65	X
0116 C263	0.51	1.67	8.2	X	5.50	2.9	46.79	0.95	0.68	X
0117 C264	1.05	2.29	8.3	X	6.28	3.0	49.01	1.05	0.80	X
0118 C265	0.46	1.53	8.4	X	7.62	3.4	42.84	1.16	0.99	X
0119 C266	0.34	1.48	9.3	X	5.94	3.3	46.95	1.03	0.72	X
0120 C267	0.38	1.64	8.2	X	5.55	3.2	59.01	1.02	0.71	X



ELEMENTS	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.01	5	0.02	0.01	0.01	1	0.1	0.05	0.01	1
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										
0081 C228	16.33	2148	1.27	0.42	4.10	36	2.7	25.00	2.82	77
0082 C229	21.00	1738	1.28	0.47	4.73	20	2.6	28.54	3.20	22
0083 C230	20.49	1964	1.22	0.43	5.80	33	4.1	26.44	2.91	71
0084 C231	39.67	1671	2.18	0.52	10.16	17	4.2	32.61	3.44	23
0085 C232	18.86	2250	1.35	0.52	4.78	34	3.1	30.97	3.43	89
0086 C233	17.84	1939	1.10	0.53	4.16	24	2.9	33.07	3.48	73
0087 C234	29.43	1908	2.32	1.06	7.49	26	3.7	62.46	6.77	91
0088 C235	29.32	1433	0.94	1.35	7.62	13	2.7	87.77	8.77	12
0089 C236	39.97	1473	1.23	1.49	9.79	9	2.5	89.33	9.81	7
0090 C237	39.90	1350	1.08	1.69	9.87	7	2.1	101.89	11.53	8
0091 C238	39.29	1352	1.10	1.57	9.69	6	2.0	95.02	10.31	6
0092 C239	3.34	2852	0.39	0.21	0.93	140	43.6	13.12	1.43	846
0093 C240	41.28	1254	0.92	1.65	10.36	6	2.2	99.19	10.98	10
0094 C241	43.75	1309	0.85	1.74	10.99	6	2.0	98.53	11.76	32
0095 C242	47.06	1440	0.94	1.86	12.64	7	2.0	101.58	12.44	9
0096 C243	41.33	1254	0.73	1.57	10.62	5	1.6	89.87	10.58	8
0097 C244	35.71	1165	0.54	1.31	9.21	5	1.5	73.85	9.19	29
0098 C245	33.81	1161	0.49	1.20	8.66	5	1.4	67.78	8.14	50
0099 C246	30.53	1325	1.27	1.05	7.57	8	2.1	61.12	7.10	54
0100 C247	30.24	1228	2.30	1.14	7.85	6	1.5	63.54	7.74	15
0101 C248	30.31	1078	0.54	1.17	7.97	5	1.2	61.81	7.95	35
0102 C249	27.12	1645	1.01	0.86	5.79	11	2.2	51.82	5.61	22
0103 C250	32.76	1765	1.23	1.05	7.24	10	2.5	60.31	6.60	27
0104 C251	30.84	1412	0.90	1.21	7.87	10	2.1	70.68	8.12	7
0105 C252	33.11	1826	1.03	1.08	8.42	14	2.2	62.11	7.11	24
0106 C253	15.30	2194	1.32	0.39	3.98	33	2.9	24.32	2.61	45
0107 C254	10.92	1740	0.95	0.31	2.66	23	2.1	18.92	2.07	27
0108 C255	15.32	2611	1.46	0.43	3.77	38	2.5	25.91	2.82	62
0109 C256	13.99	2337	1.25	0.37	3.43	35	2.1	23.78	2.52	74
0110 C257	20.84	2675	1.40	0.47	4.81	39	2.4	29.80	3.19	42
0111 C258	15.02	2574	1.40	0.37	4.07	42	2.4	22.76	2.54	92
0112 C259	19.23	2684	1.46	0.45	4.66	41	2.3	30.29	3.00	128
0113 C260	15.27	2556	1.32	0.37	3.95	41	2.5	22.40	2.53	87
0114 C261	16.70	2166	1.29	0.36	3.94	31	2.6	21.16	2.38	47
0115 C262	24.56	2067	1.24	0.40	5.73	27	2.4	23.60	2.72	11
0116 C263	15.06	2634	1.30	0.37	3.77	43	3.1	23.04	2.46	94
0117 C264	18.54	2598	1.43	0.43	4.40	40	2.5	26.95	2.87	56
0118 C265	21.97	2466	1.36	0.52	5.41	34	2.3	32.03	3.42	44
0119 C266	16.39	2866	1.35	0.39	4.81	54	2.6	24.51	2.63	114
0120 C267	16.47	2646	1.26	0.40	4.06	43	2.4	24.60	2.64	55



The results provided are not intended for commercial settlement purposes

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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										
0121 C268	X	0.07	6.38%	27.1	553.8	2.34	0.41	6644	0.16	78.28
0122 C269	X	0.09	6.16%	32.2	545.3	2.31	0.41	5464	0.15	76.04
0123 C270	0.488	0.63	7.57%	217.6	303.2	2.90	4.50	2.89%	0.15	36.51
0124 C271	X	0.08	6.10%	18.6	545.8	2.52	0.39	5744	0.20	78.25
0125 C272	X	X	6.52%	8.2	395.8	3.19	0.43	6031	0.04	104.18
0126 C273	X	0.06	5.95%	11.8	384.4	3.45	0.41	6396	0.13	119.61
0127 C274	X	0.06	5.52%	14.2	487.5	2.26	0.33	6600	0.08	69.15
0128 C275	X	0.08	6.37%	18.3	527.9	3.03	0.43	4343	0.09	83.03
0129 C276	X	0.07	6.54%	11.9	538.7	2.53	0.40	5428	0.05	82.90
0130 C277	X	0.09	6.58%	10.4	532.9	2.73	0.41	4827	0.13	81.87
0131 C278	X	0.07	6.52%	6.2	566.6	2.80	0.38	1813	0.16	93.16
0132 C279	X	X	5.04%	3.8	528.1	1.80	0.26	2088	X	84.16
0133 C280	X	0.07	5.48%	7.2	458.4	2.27	0.32	7166	0.04	81.12
0134 C281	X	0.09	6.11%	11.8	563.3	2.36	0.35	6843	0.10	74.43
0135 C282	X	0.07	7.15%	7.8	599.1	2.59	0.39	2110	0.28	88.24
0136 C283	X	0.09	6.51%	21.1	531.4	2.59	0.47	7338	0.23	81.48
0137 C284	X	0.06	5.77%	17.9	465.4	2.15	0.41	1.95%	0.06	69.74
0138 C285	X	0.07	6.01%	21.8	430.7	2.32	0.46	2.47%	0.07	74.99
0139 C286	X	0.07	6.50%	31.2	426.0	2.53	0.61	1.73%	0.09	88.63
0140 C287	X	0.06	5.54%	17.0	449.7	2.11	0.41	2.30%	0.14	68.73
0141 C288	X	0.08	6.05%	54.2	451.3	2.37	0.47	2.68%	0.15	76.79
0142 C289	X	0.09	5.72%	34.7	460.0	2.15	0.43	2.89%	0.12	77.43
0143 C290	X	0.10	5.71%	20.9	467.7	2.21	0.41	3.17%	0.07	72.62
0144 C291	X	0.14	5.21%	158.3	463.8	1.99	0.39	3.08%	0.16	64.10
0145 C292	0.501	0.62	7.61%	221.5	314.2	2.80	4.07	2.90%	0.15	37.06
0146 C293	X	X	8.10%	4.7	380.3	3.96	0.45	1395	X	99.25
0147 C294	X	0.07	7.48%	12.2	501.0	3.59	0.53	2757	X	95.59
0148 C295	X	0.07	5.73%	7.7	414.4	2.57	0.43	1917	0.02	75.30
0149 C296	X	X	5.61%	13.5	345.3	2.37	0.39	1175	0.03	82.57
0150 C297	X	0.09	7.35%	10.9	415.3	3.52	0.50	1040	0.03	107.08
0151 C298	X	X	6.31%	6.1	389.4	2.79	0.44	753	X	92.62
0152 C299	X	X	5.65%	14.4	356.7	2.59	0.57	1271	0.03	81.66
0153 C300	X	X	6.77%	8.4	378.1	3.28	0.50	893	0.03	94.34
0154 C301	X	X	4.31%	5.0	293.5	1.72	0.28	478	X	73.84
0155 C302	X	X	5.57%	8.4	346.3	2.29	0.30	658	0.04	93.02
0156 C303	X	X	4.15%	4.8	315.1	1.55	0.32	1266	0.04	75.74
0157 C304	0.008	X	6.79%	82.6	400.6	3.06	0.49	1920	X	99.23
0158 C305	X	0.06	4.19%	6.8	282.7	1.73	0.31	2206	X	79.90
0159 C306	X	X	5.20%	5.9	421.5	2.02	0.26	858	X	86.15
0160 C307	X	0.09	5.73%	6.4	417.0	2.34	0.57	1107	X	88.77



ELEMENTS	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
DETECTION LIMIT	0.1	1	0.05	0.5	0.01	0.01	0.01	0.01	0.05	0.01
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										
0121 C268	9.7	45	11.04	14.1	4.36	2.64	1.06	3.45	14.51	5.00
0122 C269	9.4	36	10.46	13.9	4.34	2.64	1.02	3.46	14.30	4.94
0123 C270	20.9	125	9.52	236.4	2.00	1.11	0.79	3.76	18.34	2.54
0124 C271	8.6	37	10.89	14.2	4.41	2.69	1.05	3.42	14.13	5.15
0125 C272	4.7	22	13.41	8.1	7.22	4.34	0.97	2.66	16.66	7.72
0126 C273	6.6	30	12.02	11.1	11.38	6.92	0.84	3.09	19.60	11.48
0127 C274	6.7	42	9.01	11.1	3.99	2.37	0.93	3.37	13.13	4.56
0128 C275	8.6	39	12.99	13.2	4.58	2.79	1.10	3.94	15.14	5.33
0129 C276	8.3	34	11.12	11.6	4.77	2.89	1.04	3.55	14.24	5.73
0130 C277	7.8	38	11.95	11.3	4.57	2.86	1.03	2.69	15.41	4.97
0131 C278	6.5	34	11.12	12.9	5.08	3.12	1.05	2.22	15.73	5.81
0132 C279	3.5	25	6.87	11.6	4.31	2.69	0.83	1.50	11.99	5.23
0133 C280	5.0	34	9.03	7.2	4.39	2.71	0.87	1.90	13.08	5.01
0134 C281	7.3	42	11.17	12.9	4.15	2.50	0.98	2.44	14.16	4.69
0135 C282	8.1	46	15.55	16.9	4.75	2.90	1.17	2.47	16.51	5.54
0136 C283	8.6	45	14.79	16.4	4.58	2.78	1.09	2.98	15.02	5.14
0137 C284	6.9	42	13.07	13.1	4.06	2.50	0.96	2.76	13.67	4.57
0138 C285	7.0	37	13.93	14.2	4.39	2.68	0.99	2.82	13.90	5.07
0139 C286	6.7	32	15.76	15.5	5.37	3.30	1.08	2.59	15.60	5.81
0140 C287	6.6	36	12.69	12.6	4.26	2.67	0.96	2.58	12.82	4.60
0141 C288	7.3	42	15.03	15.0	4.89	3.09	1.05	2.93	14.36	5.27
0142 C289	6.7	36	13.16	12.9	4.56	2.80	1.01	2.58	13.22	5.02
0143 C290	6.3	36	13.20	12.3	4.43	2.80	0.98	2.57	13.33	4.89
0144 C291	6.5	35	12.13	14.6	3.86	2.43	0.88	3.10	12.18	4.23
0145 C292	21.1	114	9.89	242.4	2.00	1.11	0.76	3.79	18.98	2.61
0146 C293	7.4	46	17.72	4.7	5.95	3.72	1.23	3.16	19.89	6.25
0147 C294	7.0	42	18.64	4.2	5.65	3.44	1.32	4.65	18.32	6.47
0148 C295	6.0	39	13.19	3.4	4.40	2.79	1.06	2.78	14.00	5.02
0149 C296	9.6	40	11.96	5.4	4.50	2.77	1.08	3.00	13.72	5.20
0150 C297	12.3	41	13.90	6.4	8.07	3.66	1.34	3.19	17.75	6.85
0151 C298	11.0	42	11.07	7.1	5.01	3.05	1.13	2.82	15.47	5.70
0152 C299	9.7	36	8.90	4.6	4.89	2.87	1.19	4.58	13.91	5.73
0153 C300	10.3	40	12.48	6.9	5.13	3.12	1.13	2.65	16.99	5.51
0154 C301	6.5	26	6.19	4.4	4.29	2.46	0.93	2.28	10.28	4.89
0155 C302	7.7	32	8.05	5.1	5.69	3.44	1.14	2.45	13.34	6.19
0156 C303	5.5	25	5.34	3.1	4.18	2.53	0.96	2.22	9.33	4.75
0157 C304	35.6	46	11.82	6.9	5.49	3.34	1.34	4.49	16.30	6.50
0158 C305	5.4	29	6.83	3.5	3.71	2.16	1.06	2.46	9.90	4.73
0159 C306	7.0	32	7.88	3.5	4.60	2.69	1.15	2.63	12.54	5.58
0160 C307	6.6	30	8.92	3.6	4.70	2.84	1.14	2.73	13.74	5.43



ELEMENTS	Ge	Hf	Ho	In	K	La	Li	Lu	Mg	Mn
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.1	0.05	0.01	0.01	20	0.01	0.1	0.01	20	1
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										
0121 C268	1.4	5.53	0.87	0.04	3.76%	39.50	32.4	0.40	8540	894
0122 C269	1.4	5.67	0.86	0.04	4.08%	38.05	32.4	0.40	8218	751
0123 C270	1.2	2.05	0.38	0.17	1.80%	18.93	26.9	0.15	1.54%	548
0124 C271	1.3	5.41	0.90	0.05	4.12%	39.01	35.4	0.41	8774	703
0125 C272	1.5	6.08	1.46	0.06	3.82%	51.46	40.1	0.62	1.07%	644
0126 C273	1.3	7.11	2.34	0.10	3.64%	57.03	33.8	0.88	9516	805
0127 C274	1.5	5.40	0.78	0.04	3.62%	35.28	33.4	0.36	8173	709
0128 C275	1.4	5.32	1.29	0.06	4.36%	41.57	41.5	0.40	8626	657
0129 C276	1.4	5.88	0.96	0.05	3.97%	41.61	36.2	0.44	9571	605
0130 C277	1.5	6.22	0.92	0.05	4.10%	41.43	35.9	0.44	9046	525
0131 C278	1.5	6.33	1.03	0.05	4.21%	46.37	33.7	0.47	7923	170
0132 C279	1.6	5.72	0.90	0.04	3.00%	42.19	20.5	0.40	5900	176
0133 C280	1.4	5.66	0.89	0.03	3.36%	40.96	24.4	0.41	8367	555
0134 C281	1.6	6.63	0.82	0.04	4.00%	38.14	30.9	0.39	9027	543
0135 C282	1.8	5.97	0.95	0.05	4.88%	44.28	40.2	0.44	9622	127
0136 C283	1.5	5.53	0.94	0.04	4.37%	41.16	35.8	0.41	1.05%	281
0137 C284	1.4	4.66	0.82	0.04	3.85%	35.60	30.6	0.37	1.51%	539
0138 C285	1.4	4.78	0.89	0.05	2.79%	37.68	31.7	0.39	1.82%	541
0139 C286	1.6	5.51	1.09	0.05	3.96%	44.21	30.8	0.48	1.62%	374
0140 C287	1.3	5.18	0.90	0.05	3.56%	35.06	26.4	0.40	1.75%	441
0141 C288	1.4	5.24	0.99	0.04	3.75%	39.28	27.5	0.44	1.99%	473
0142 C289	1.2	5.03	0.90	0.04	2.74%	39.25	24.6	0.40	2.03%	464
0143 C290	1.3	5.39	0.90	0.04	3.68%	37.73	25.3	0.41	2.15%	477
0144 C291	1.3	4.59	0.79	0.04	3.39%	33.39	22.8	0.35	2.07%	462
0145 C292	1.5	2.10	0.38	0.16	1.84%	19.13	27.4	0.17	1.55%	557
0146 C293	2.2	6.74	1.23	0.06	4.20%	50.17	22.6	0.58	9603	129
0147 C294	2.0	6.44	1.12	0.05	3.93%	48.57	24.0	0.52	8091	180
0148 C295	1.8	5.60	0.90	0.05	3.05%	37.57	17.7	0.40	6083	137
0149 C296	1.8	5.71	0.90	0.04	2.98%	40.08	20.2	0.40	6137	125
0150 C297	2.0	6.51	1.15	0.05	3.93%	51.38	23.4	0.56	8553	111
0151 C298	1.8	6.37	0.99	0.03	3.37%	44.68	21.7	0.45	7422	121
0152 C299	1.7	5.74	0.97	0.06	2.97%	38.94	19.1	0.42	6903	324
0153 C300	1.9	5.98	1.02	0.05	3.58%	46.16	20.7	0.46	7357	110
0154 C301	1.7	7.14	0.83	0.03	2.41%	34.41	18.1	0.38	5258	117
0155 C302	1.7	8.27	1.12	0.03	3.01%	43.81	19.4	0.53	6454	122
0156 C303	1.5	7.23	0.82	0.03	2.30%	34.54	18.3	0.37	5739	175
0157 C304	1.9	7.54	1.09	0.06	3.41%	48.53	31.0	0.52	9997	440
0158 C305	1.5	4.35	0.73	0.02	2.29%	37.39	17.3	0.31	5872	227
0159 C306	1.6	6.37	0.88	0.03	3.00%	39.81	23.6	0.39	6865	142
0160 C307	1.7	6.61	0.92	0.04	3.19%	41.80	24.4	0.44	7584	155



ELEMENTS	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	Re
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.1	20	0.05	0.01	0.5	50	0.5	0.01	0.05	0.002
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										
0121 C268	2.5	3511	11.32	32.92	15.2	561	37.1	8.93	200.09	X
0122 C269	2.3	3345	11.01	31.69	15.0	539	34.0	8.53	214.72	X
0123 C270	11.6	1.80%	4.97	15.63	265.6	470	74.7	4.20	189.00	0.004
0124 C271	2.1	3359	11.23	31.84	14.4	575	27.6	8.77	223.74	X
0125 C272	1.8	2061	17.05	43.07	8.0	508	26.1	11.85	229.96	X
0126 C273	2.3	2086	29.78	52.78	10.9	486	23.2	14.14	211.14	X
0127 C274	1.7	4087	9.96	28.97	13.2	593	23.2	7.95	190.55	X
0128 C275	1.8	3623	11.80	34.34	16.1	738	27.6	9.26	241.30	0.003
0129 C276	1.9	5163	11.99	34.17	12.6	507	23.9	9.33	212.30	X
0130 C277	1.9	5045	12.12	33.76	14.0	477	24.5	9.21	224.18	X
0131 C278	2.1	4725	12.85	38.63	12.0	461	34.2	10.60	232.40	X
0132 C279	1.7	3432	10.77	35.57	6.4	235	13.1	9.94	155.12	X
0133 C280	1.9	4377	11.16	32.89	9.2	338	13.2	9.21	177.68	X
0134 C281	1.9	4988	10.64	31.17	14.8	378	22.5	8.61	212.46	X
0135 C282	2.6	4442	12.57	36.26	19.1	520	31.5	10.03	273.47	X
0136 C283	4.1	4898	11.44	33.89	18.3	587	31.3	9.39	245.43	X
0137 C284	3.2	3793	9.98	29.01	14.9	575	24.8	8.02	222.19	X
0138 C285	3.6	3758	10.48	31.43	15.4	524	28.0	8.55	160.21	X
0139 C286	3.8	3762	12.31	37.01	15.5	535	28.1	10.10	233.84	X
0140 C287	4.5	3507	9.65	29.49	16.0	445	30.5	7.98	205.04	X
0141 C288	14.1	3542	10.98	33.02	55.6	491	36.4	8.89	221.27	X
0142 C289	4.3	3674	10.99	33.05	16.0	460	27.9	9.07	153.83	0.002
0143 C290	4.0	3250	10.19	30.91	14.3	488	25.1	8.42	214.03	X
0144 C291	5.2	2929	9.33	27.31	16.7	419	51.9	7.43	190.95	X
0145 C292	12.1	1.82%	5.25	16.09	265.7	475	74.2	4.26	192.99	0.004
0146 C293	0.6	549	14.71	40.39	18.5	178	10.2	11.36	233.10	X
0147 C294	1.2	532	12.86	40.75	16.8	405	10.5	11.18	208.11	X
0148 C295	1.1	441	10.54	31.62	13.6	240	7.5	8.56	155.81	X
0149 C296	1.5	452	10.49	33.89	17.0	176	10.0	9.35	152.08	X
0150 C297	1.1	567	14.79	44.34	20.8	224	16.3	11.75	210.12	X
0151 C298	1.2	518	13.04	37.68	19.2	186	12.8	10.28	177.30	X
0152 C299	1.4	474	11.62	34.09	17.5	397	14.0	9.16	155.28	X
0153 C300	1.3	529	12.83	38.07	18.0	189	13.6	10.59	191.05	X
0154 C301	1.1	421	8.84	30.49	11.6	137	13.6	8.21	120.69	X
0155 C302	0.8	483	12.38	37.70	12.4	169	15.7	10.25	151.11	X
0156 C303	1.0	413	8.20	30.56	9.8	150	15.0	8.26	113.29	0.002
0157 C304	1.5	545	12.91	40.09	24.1	643	16.9	10.93	176.66	X
0158 C305	1.1	430	7.74	32.71	8.8	169	10.1	8.87	117.97	X
0159 C306	0.9	589	9.83	36.47	10.8	169	12.5	9.67	155.40	X
0160 C307	1.1	584	11.13	35.52	11.0	166	11.6	9.79	167.20	X



ELEMENTS	S	Sb	Sc	Se	Sm	Sn	Sr	Ta	Tb	Te
UNITS	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.05	0.05	0.1	0.5	0.01	0.1	0.05	0.01	0.01	0.2
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										
0121 C268	1.07	2.49	7.8	0.6	5.69	2.9	49.26	0.96	0.72	X
0122 C269	1.14	2.57	7.8	0.6	5.58	2.8	47.34	0.98	0.70	X
0123 C270	0.18	4.70	8.9	0.5	2.90	13.4	180.50	0.66	0.34	X
0124 C271	1.18	1.91	8.4	0.7	5.80	2.8	45.82	0.98	0.72	X
0125 C272	0.38	1.06	6.5	X	8.02	3.9	43.37	1.35	1.13	X
0126 C273	0.75	1.41	6.0	X	11.07	6.2	47.02	2.00	1.78	X
0127 C274	0.95	1.49	7.0	X	5.05	2.6	47.95	0.88	0.63	X
0128 C275	1.56	1.87	8.8	0.6	5.97	2.9	48.00	1.01	0.73	X
0129 C276	0.78	1.56	7.4	X	6.00	3.0	45.56	1.04	0.75	X
0130 C277	0.49	1.59	8.5	X	5.81	3.2	48.48	1.05	0.74	X
0131 C278	0.29	1.29	7.7	X	6.57	3.3	45.95	1.12	0.80	X
0132 C279	0.19	0.87	4.7	X	6.20	2.4	36.49	0.91	0.72	X
0133 C280	0.26	1.27	5.8	X	5.63	2.8	41.83	0.90	0.70	X
0134 C281	0.50	1.59	7.7	X	5.38	2.9	49.58	0.92	0.67	X
0135 C282	0.54	1.31	9.9	0.5	6.65	3.3	48.43	1.09	0.80	X
0136 C283	1.61	2.03	9.0	X	5.86	3.1	53.26	1.00	0.76	X
0137 C284	1.31	1.60	8.0	X	5.16	2.8	75.37	0.86	0.65	X
0138 C285	1.58	1.71	8.0	X	5.38	3.0	64.62	0.93	0.70	X
0139 C286	1.51	1.94	8.0	X	6.43	3.2	51.12	1.09	0.85	X
0140 C287	1.35	1.66	6.9	X	5.08	2.6	71.03	0.87	0.65	X
0141 C288	1.82	2.49	7.9	X	5.82	2.9	68.87	0.96	0.78	X
0142 C289	1.45	1.89	7.4	X	5.66	2.8	71.53	0.93	0.71	X
0143 C290	1.41	1.96	7.1	X	5.33	2.7	92.50	0.87	0.71	X
0144 C291	2.02	3.50	6.9	X	4.66	2.5	89.37	0.80	0.62	X
0145 C292	0.16	4.82	9.3	X	2.91	13.9	182.71	0.69	0.36	0.2
0146 C293	X	1.27	12.4	X	7.04	3.9	53.09	1.27	0.93	X
0147 C294	X	1.95	11.6	X	7.25	3.5	65.85	1.17	0.92	X
0148 C295	X	1.35	8.6	X	5.75	2.8	45.56	0.90	0.69	X
0149 C296	X	1.65	8.4	X	6.04	2.8	43.67	0.94	0.73	X
0150 C297	X	1.59	11.5	X	7.78	3.6	52.36	1.28	0.92	X
0151 C298	X	1.36	10.1	X	6.54	3.4	45.09	1.13	0.80	X
0152 C299	X	1.35	8.5	X	6.52	3.1	39.68	1.02	0.77	X
0153 C300	X	1.45	11.0	X	6.45	3.2	51.37	1.12	0.78	X
0154 C301	X	1.14	5.7	X	5.36	2.2	34.98	0.75	0.69	X
0155 C302	X	1.08	7.0	X	6.73	3.0	39.94	1.09	0.89	X
0156 C303	X	0.99	5.4	X	5.50	2.0	36.05	0.73	0.69	X
0157 C304	X	1.64	11.5	X	6.97	3.3	53.41	1.09	0.90	X
0158 C305	X	0.93	5.4	X	5.71	2.0	36.11	0.66	0.62	X
0159 C306	X	1.18	6.9	X	6.56	2.6	41.56	0.87	0.74	X
0160 C307	X	1.24	7.4	0.8	6.36	2.9	42.44	0.96	0.75	X



ELEMENTS	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.01	5	0.02	0.01	0.01	1	0.1	0.05	0.01	1
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										
0121 C268	16.10	2492	1.58	0.39	4.10	43	2.3	27.11	2.59	76
0122 C269	15.70	2463	1.58	0.36	3.99	42	2.4	24.72	2.49	75
0123 C270	7.41	3017	1.69	0.16	2.35	72	26.3	10.06	1.05	107
0124 C271	15.71	2499	1.45	0.38	3.88	43	2.7	23.88	2.60	74
0125 C272	23.60	1896	1.21	0.63	4.97	25	2.0	40.49	4.04	25
0126 C273	25.21	1871	1.33	0.97	6.50	32	1.8	58.96	6.07	60
0127 C274	13.74	2237	1.06	0.35	3.46	37	2.2	21.15	2.43	48
0128 C275	16.08	2698	1.33	0.39	4.04	46	2.5	24.80	2.73	53
0129 C276	16.76	2357	1.32	0.42	3.96	36	2.2	26.37	2.88	47
0130 C277	16.59	2600	1.31	0.40	4.27	39	2.5	25.10	2.69	68
0131 C278	18.81	2292	1.27	0.45	4.49	35	2.3	27.15	3.02	78
0132 C279	16.30	1389	0.93	0.38	3.75	17	1.4	23.48	2.55	9
0133 C280	16.03	1781	0.97	0.41	3.74	26	1.8	24.04	2.56	20
0134 C281	15.13	2455	1.29	0.37	4.11	41	2.1	22.63	2.49	55
0135 C282	17.57	3013	1.68	0.41	5.29	56	2.5	26.03	2.81	120
0136 C283	15.89	2820	1.59	0.41	6.17	51	2.5	25.99	2.71	108
0137 C284	14.07	2421	1.37	0.36	5.35	42	2.1	22.99	2.41	41
0138 C285	15.22	2424	1.54	0.39	6.09	44	2.4	24.98	2.55	40
0139 C286	18.19	2401	1.88	0.48	7.19	40	2.6	30.07	3.14	51
0140 C287	13.93	2216	1.64	0.39	6.85	40	2.3	24.10	2.55	75
0141 C288	15.45	2388	1.84	0.43	7.20	46	2.4	28.08	3.16	96
0142 C289	15.28	2301	1.77	0.40	6.73	42	2.1	25.86	2.68	69
0143 C290	15.20	2316	1.93	0.40	6.49	41	2.2	25.96	2.69	51
0144 C291	13.17	2130	2.40	0.39	6.51	43	2.2	22.92	2.35	85
0145 C292	7.66	3005	1.74	0.16	2.38	75	28.8	10.13	1.03	109
0146 C293	21.07	3421	0.94	0.55	4.92	66	4.0	33.48	3.72	35
0147 C294	18.94	3133	0.86	0.49	4.96	67	3.5	30.96	3.38	24
0148 C295	15.08	2531	0.67	0.39	3.53	48	2.7	24.53	2.63	19
0149 C296	15.05	2642	0.66	0.40	3.85	50	2.8	24.66	2.65	20
0150 C297	20.27	3466	0.88	0.50	4.89	63	3.6	32.87	3.41	35
0151 C298	16.87	3256	0.75	0.43	4.16	55	3.5	26.55	2.86	27
0152 C299	15.50	2722	0.69	0.40	3.89	48	3.0	25.79	2.74	51
0153 C300	17.57	3186	0.80	0.45	4.32	61	3.4	26.61	3.08	32
0154 C301	12.70	2074	0.52	0.35	3.11	32	2.0	22.45	2.41	20
0155 C302	17.71	2566	0.64	0.51	3.85	36	2.5	30.71	3.44	18
0156 C303	11.97	1924	0.50	0.36	2.89	30	1.8	23.65	2.37	15
0157 C304	17.19	3248	0.74	0.48	4.27	69	3.1	29.83	3.27	28
0158 C305	10.65	1794	0.52	0.32	2.44	32	1.7	20.21	2.04	13
0159 C306	13.55	2308	0.64	0.38	2.89	39	2.3	25.55	2.52	17
0160 C307	15.12	2435	0.71	0.41	3.21	43	2.5	25.32	2.81	21



ELEMENTS Zr
UNITS ppm
DETECTION LIMIT 0.1
DIGEST 4A/
ANALYTICAL FINISH MS
SAMPLE NUMBERS

0121 C268	201.2
0122 C269	200.1
0123 C270	72.5
0124 C271	192.2
0125 C272	198.4
0126 C273	202.2
0127 C274	189.8
0128 C275	189.5
0129 C276	208.2
0130 C277	220.9
0131 C278	219.1
0132 C279	198.3
0133 C280	203.9
0134 C281	244.5
0135 C282	212.7
0136 C283	191.4
0137 C284	167.6
0138 C285	170.3
0139 C286	192.0
0140 C287	182.7
0141 C288	183.3
0142 C289	180.2
0143 C290	196.7
0144 C291	171.4
0145 C292	73.1
0146 C293	236.9
0147 C294	225.7
0148 C295	201.9
0149 C296	208.8
0150 C297	226.1
0151 C298	228.0
0152 C299	200.0
0153 C300	214.9
0154 C301	262.7
0155 C302	287.2
0156 C303	261.7
0157 C304	274.6
0158 C305	157.1
0159 C306	226.6
0160 C307	237.8



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										
0161 C308	X	0.05	5.72%	5.2	418.6	2.23	0.27	741	X	88.29
0162 C309	X	X	5.27%	5.0	429.3	1.91	0.21	485	X	87.94
0163 C310	X	X	6.36%	4.3	465.8	2.51	0.25	662	X	93.85
0164 C311	X	0.06	5.64%	5.1	426.4	2.29	0.41	1847	0.02	89.76
0165 C312	X	0.06	4.42%	5.6	329.8	1.68	0.30	3116	X	87.05
0166 C313	X	X	5.20%	3.4	396.9	1.93	0.21	624	X	85.90
0167 C314	X	0.05	5.58%	5.1	370.2	2.09	0.38	2336	X	83.83
0168 C315	X	X	4.37%	8.9	367.5	1.51	0.32	472	X	71.80
0169 C316	X	X	3.28%	4.5	243.4	1.15	0.17	3762	0.02	68.03
0170 C317	X	0.07	3.35%	4.3	261.7	1.01	0.20	3234	X	64.27
0171 C318	0.017	0.06	7.61%	9.0	389.6	3.32	0.52	1557	0.08	112.27
0172 C319	X	0.05	5.46%	6.5	444.5	1.84	0.27	663	0.02	87.61
0173 C320	X	X	5.66%	6.5	456.4	2.02	0.25	580	0.02	90.88
0174 C321	X	X	930	0.9	3.4	0.06	0.01	63	X	2.32
0175 C322	X	0.07	6.03%	8.5	501.9	2.30	0.37	1226	X	89.99
0176 C323	X	0.08	6.63%	6.5	452.0	2.77	0.43	557	0.04	90.11
0177 C324	X	0.09	5.44%	6.7	436.7	1.87	0.32	998	0.05	89.87
0178 C325	X	0.08	5.11%	6.1	447.9	1.70	0.26	1336	0.05	89.14
0179 C326	X	0.07	9.96%	3.9	456.1	3.88	0.53	1890	X	128.52
0180 C327	X	0.08	6.10%	9.3	493.4	2.15	0.46	2474	0.06	99.60
0181 C328	X	0.08	5.06%	7.6	440.7	1.77	0.30	1233	0.03	89.66
0182 C329	X	0.08	5.26%	7.3	437.1	1.86	0.29	1469	0.03	91.44
0183 C330	X	0.12	5.87%	9.2	498.8	2.10	0.38	936	X	97.79
0184 C331	X	0.09	5.16%	7.7	443.6	1.81	0.28	2506	0.03	98.00
0185 C332	X	0.08	6.35%	7.6	502.4	2.09	0.28	783	0.04	108.87
0186 C333	X	0.08	6.43%	9.4	637.3	2.21	0.40	2992	0.03	104.38
0187 C334	X	0.06	5.99%	7.9	645.9	1.97	0.35	728	0.03	98.62
0188 C335	X	0.05	7.64%	6.2	785.5	3.09	0.60	887	0.03	107.27
0189 C336	X	0.08	7.23%	8.4	992.0	2.93	0.91	820	0.04	101.13
0190 C337	X	0.05	6.99%	7.1	576.2	2.83	0.69	1034	0.05	103.47
0191 C338	X	X	7.56%	5.6	440.2	3.08	0.54	2659	0.03	105.73
0192 C339	X	0.07	7.36%	4.8	434.5	3.03	0.54	2384	0.03	106.01
0193 C340	X	X	7.94%	6.8	408.7	3.26	0.51	1837	X	101.39
0194 C341	X	X	7.90%	5.6	399.0	3.34	0.68	1732	X	105.64
0195 C342	X	X	7.97%	5.8	404.5	3.42	0.50	1441	0.03	105.13
0196 C343	X	X	8.01%	6.8	390.9	3.30	0.85	1605	X	108.41
0197 C344	X	X	8.79%	12.3	413.0	3.92	1.01	1611	X	112.49
0198 C345	X	X	8.22%	7.1	403.1	3.42	0.94	1305	0.03	112.82
0199 C346	X	X	8.45%	8.7	408.4	3.70	1.02	1435	0.04	110.43
0200 C347	X	X	8.31%	9.9	385.0	3.61	1.12	2077	0.05	112.65



ELEMENTS	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
DETECTION LIMIT	0.1	1	0.05	0.5	0.01	0.01	0.01	0.01	0.05	0.01
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										
0161 C308	6.3	32	8.73	3.4	4.52	2.72	1.09	2.61	13.75	5.09
0162 C309	6.4	29	7.86	3.6	4.68	2.79	1.13	2.31	12.22	5.46
0163 C310	6.9	39	9.93	15.6	4.85	3.01	1.17	2.62	15.19	5.42
0164 C311	7.5	37	9.28	48.9	4.79	2.80	1.21	2.40	13.37	5.69
0165 C312	7.3	29	6.64	8.5	5.23	2.68	1.55	2.26	10.75	7.26
0166 C313	6.2	35	7.43	3.7	4.36	2.50	1.15	2.41	12.84	5.17
0167 C314	8.4	37	8.50	11.5	4.54	2.62	1.15	2.87	13.33	5.41
0168 C315	9.2	28	5.46	18.3	3.76	2.20	0.95	2.32	9.66	4.44
0169 C316	6.7	26	4.32	9.3	3.23	1.88	0.95	2.02	7.84	4.24
0170 C317	7.7	23	3.67	6.4	3.13	1.75	0.91	2.31	7.01	3.94
0171 C318	10.6	45	12.88	23.8	5.97	3.35	1.73	2.76	18.99	7.97
0172 C319	7.1	34	8.04	27.3	4.42	2.60	1.09	2.32	12.62	5.22
0173 C320	7.1	35	8.45	26.1	4.52	2.68	1.14	2.40	13.19	5.50
0174 C321	0.6	8	0.11	7.2	0.12	0.07	0.01	0.35	0.23	0.14
0175 C322	9.9	38	9.38	18.7	4.81	2.92	1.20	2.50	14.17	5.90
0176 C323	10.4	40	11.88	25.2	4.60	2.86	1.12	2.52	15.87	5.35
0177 C324	9.2	33	7.29	11.2	4.53	2.77	1.09	2.63	12.06	5.46
0178 C325	8.1	29	6.77	20.6	4.38	2.63	1.09	2.40	11.24	5.30
0179 C326	7.3	16	16.88	14.7	5.78	3.61	1.62	1.98	20.86	6.98
0180 C327	12.3	36	8.49	23.0	4.77	2.91	1.13	3.06	14.17	5.27
0181 C328	8.7	34	7.17	18.1	4.39	2.63	1.12	2.05	11.41	5.25
0182 C329	9.5	33	7.07	8.9	4.67	2.78	1.18	2.37	11.61	5.60
0183 C330	11.8	36	8.65	16.0	5.08	2.99	1.33	2.63	13.70	6.22
0184 C331	9.3	31	7.32	12.1	4.85	2.87	1.27	2.40	11.88	6.16
0185 C332	9.2	42	9.16	9.8	5.58	3.18	1.65	2.60	14.35	6.30
0186 C333	10.4	42	9.92	14.1	5.31	3.08	1.40	2.69	15.14	6.54
0187 C334	8.5	39	8.69	12.8	5.20	2.88	1.20	2.46	13.55	5.71
0188 C335	9.3	49	14.08	26.7	5.53	3.26	1.34	3.02	18.45	6.33
0189 C336	12.2	45	12.86	21.9	5.35	3.21	1.30	3.06	17.36	6.25
0190 C337	10.0	45	11.76	19.7	5.40	3.22	1.30	3.07	17.08	6.22
0191 C338	10.8	47	13.09	22.0	5.73	3.29	1.38	3.75	18.55	6.56
0192 C339	11.5	44	12.49	23.6	6.21	3.54	1.52	4.15	17.98	7.43
0193 C340	12.7	47	13.23	22.7	5.47	3.30	1.26	4.30	19.43	5.96
0194 C341	12.4	46	13.68	24.3	5.91	3.59	1.40	4.47	20.05	7.05
0195 C342	12.7	48	13.99	25.6	5.70	3.46	1.30	4.51	20.05	6.52
0196 C343	13.3	52	14.34	26.1	5.98	3.51	1.43	4.76	19.79	7.06
0197 C344	13.5	55	16.93	33.9	6.19	3.70	1.46	4.56	21.96	7.11
0198 C345	12.8	52	15.53	34.3	5.95	3.48	1.39	4.54	20.41	6.66
0199 C346	14.4	52	16.06	36.1	6.74	3.64	1.42	4.44	20.85	6.84
0200 C347	15.4	49	16.34	32.3	6.51	3.70	1.53	4.74	20.18	7.37



ELEMENTS	Ge	Hf	Ho	In	K	La	Li	Lu	Mg	Mn
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.1	0.05	0.01	0.01	20	0.01	0.1	0.01	20	1
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										
0161 C308	1.7	7.08	0.91	0.03	3.21%	41.57	21.8	0.41	6967	147
0162 C309	1.5	7.82	0.92	0.03	3.00%	41.13	21.0	0.42	6410	121
0163 C310	1.7	6.70	0.97	0.05	3.27%	45.03	25.6	0.43	7919	148
0164 C311	1.8	6.24	0.91	0.04	3.18%	42.12	25.0	0.41	7427	303
0165 C312	1.3	4.63	1.00	0.04	2.42%	38.95	21.2	0.36	6470	391
0166 C313	1.6	5.93	0.84	0.04	2.88%	39.49	24.4	0.37	6845	148
0167 C314	1.8	5.79	0.87	0.04	2.94%	40.41	26.1	0.37	8172	355
0168 C315	1.5	6.18	0.75	0.02	2.46%	33.73	23.4	0.34	5876	137
0169 C316	1.3	4.62	0.67	0.02	1.74%	31.39	20.1	0.26	6052	604
0170 C317	1.2	5.03	0.59	0.03	1.90%	28.87	17.7	0.26	5603	538
0171 C318	1.7	6.23	1.13	0.05	3.74%	53.97	32.6	0.48	9718	170
0172 C319	1.4	6.55	0.99	0.03	3.04%	41.50	26.0	0.39	7102	158
0173 C320	1.6	6.99	0.91	0.03	2.94%	43.22	26.3	0.42	7223	145
0174 C321	0.8	0.27	0.02	X	75	1.14	16.0	0.01	42	79
0175 C322	1.7	6.68	0.96	0.04	3.00%	43.22	30.6	0.41	8481	221
0176 C323	1.8	6.63	0.91	0.05	3.48%	44.26	33.3	0.41	8672	161
0177 C324	1.6	6.93	0.88	0.03	2.86%	42.02	32.7	0.42	8350	227
0178 C325	1.4	8.47	0.86	0.03	2.79%	40.97	29.7	0.43	7420	264
0179 C326	1.6	6.41	1.15	0.04	4.27%	59.28	21.3	0.60	9606	116
0180 C327	1.6	6.99	0.96	0.07	3.17%	48.30	36.1	0.46	9602	453
0181 C328	1.5	8.09	0.85	0.04	2.87%	41.13	26.4	0.42	6439	320
0182 C329	1.6	7.57	0.90	0.03	2.85%	41.75	30.4	0.43	7648	362
0183 C330	1.6	8.22	0.97	0.04	3.13%	46.01	33.7	0.46	7828	218
0184 C331	1.5	7.98	0.97	0.03	2.71%	44.29	29.8	0.43	7596	458
0185 C332	1.5	7.77	1.02	0.04	2.95%	49.90	31.9	0.48	7792	193
0186 C333	1.4	7.23	1.03	0.04	3.30%	47.56	32.3	0.44	8418	566
0187 C334	1.6	6.92	1.24	0.04	3.08%	45.25	31.3	0.44	7453	176
0188 C335	1.6	6.22	1.06	0.05	3.89%	52.06	37.2	0.51	9244	215
0189 C336	1.7	6.68	1.08	0.05	3.60%	49.38	36.8	0.50	9035	218
0190 C337	1.8	6.92	1.08	0.05	3.24%	49.51	37.3	0.49	8921	267
0191 C338	1.7	6.07	1.12	0.05	2.90%	50.72	40.3	0.49	1.06%	1328
0192 C339	1.7	6.28	1.22	0.07	3.24%	50.63	47.8	0.51	1.13%	498
0193 C340	1.9	5.66	1.09	0.07	3.02%	49.96	47.1	0.51	1.15%	459
0194 C341	1.6	5.66	1.18	0.05	3.33%	51.03	49.1	0.52	1.13%	740
0195 C342	1.8	5.59	1.17	0.05	3.27%	51.67	48.1	0.50	1.11%	890
0196 C343	1.7	6.18	1.18	0.06	3.27%	52.66	49.8	0.53	1.10%	953
0197 C344	2.1	5.87	1.22	0.07	3.08%	55.83	46.7	0.56	1.11%	1053
0198 C345	2.0	5.89	1.16	0.06	3.20%	54.93	49.6	0.53	1.08%	661
0199 C346	2.0	5.68	1.17	0.06	3.20%	54.21	48.1	0.54	1.08%	827
0200 C347	1.9	5.88	1.25	0.07	3.37%	55.00	47.4	0.54	1.08%	1747



ELEMENTS	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	Re
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.1	20	0.05	0.01	0.5	50	0.5	0.01	0.05	0.002
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										
0161 C308	0.6	601	10.70	35.89	10.3	147	10.2	9.70	170.82	X
0162 C309	0.6	603	9.87	35.72	9.5	135	11.1	9.61	154.14	X
0163 C310	0.5	646	11.58	37.99	11.7	146	12.4	10.36	171.18	X
0164 C311	0.5	618	10.32	36.97	10.5	161	9.3	9.92	168.61	0.004
0165 C312	0.8	502	8.01	39.52	8.8	369	9.9	9.91	126.02	X
0166 C313	0.7	580	9.32	35.30	10.4	194	8.9	9.31	147.99	X
0167 C314	1.0	565	10.44	34.18	12.0	322	12.9	9.35	154.12	0.003
0168 C315	1.0	539	7.92	30.43	9.2	142	9.5	8.11	123.94	0.004
0169 C316	1.0	388	6.33	27.97	8.3	155	5.9	7.52	87.90	X
0170 C317	0.8	387	5.32	26.11	6.3	114	5.8	6.96	90.03	X
0171 C318	1.0	665	13.04	47.49	14.0	576	12.2	12.60	202.61	0.010
0172 C319	0.8	628	10.60	35.06	10.5	181	13.4	9.53	156.12	X
0173 C320	0.6	654	10.33	36.68	10.4	179	11.3	9.85	152.69	X
0174 C321	1.0	30	1.08	0.93	4.8	X	2.1	0.26	0.40	X
0175 C322	0.6	663	10.71	37.01	12.4	306	24.6	10.07	160.34	X
0176 C323	0.8	691	11.85	36.50	13.7	142	25.2	10.04	191.15	X
0177 C324	0.5	582	9.87	35.84	10.9	234	10.8	9.74	147.76	X
0178 C325	0.7	770	9.51	35.05	9.7	198	22.1	9.59	137.28	X
0179 C326	0.3	887	15.69	48.98	7.0	370	19.1	13.81	200.87	0.002
0180 C327	0.6	842	11.61	38.58	13.0	317	9.8	10.68	159.17	0.004
0181 C328	0.9	659	9.20	36.18	10.7	165	23.3	9.75	142.80	X
0182 C329	0.7	679	9.87	36.84	11.8	214	11.2	10.07	140.74	X
0183 C330	0.6	716	11.58	39.78	14.7	255	22.9	10.74	159.59	X
0184 C331	0.6	596	10.39	40.18	11.4	294	14.5	10.69	137.66	X
0185 C332	0.6	1394	12.94	43.16	12.8	266	12.4	11.76	150.97	X
0186 C333	0.8	1561	12.37	42.04	14.7	318	13.8	11.34	171.26	X
0187 C334	0.8	1622	10.62	39.09	12.6	225	34.4	10.69	161.03	X
0188 C335	0.9	1213	13.82	43.02	18.2	237	14.4	11.86	208.98	X
0189 C336	0.6	850	13.76	42.06	20.3	244	16.7	11.37	198.71	X
0190 C337	1.0	1055	12.75	42.13	19.9	257	13.0	11.51	178.48	X
0191 C338	0.5	865	13.71	42.91	21.6	455	10.2	11.71	160.13	X
0192 C339	0.6	758	13.92	44.22	24.4	562	11.6	11.91	183.89	X
0193 C340	0.4	753	14.10	40.48	27.3	449	8.4	11.23	172.53	X
0194 C341	0.9	767	15.09	44.17	27.4	643	11.0	11.90	196.51	X
0195 C342	0.4	812	14.52	43.03	27.3	491	11.6	11.80	189.49	X
0196 C343	1.1	1013	15.36	44.43	29.0	590	13.9	12.15	193.30	X
0197 C344	1.2	978	14.59	46.60	30.3	551	14.8	12.85	184.75	X
0198 C345	1.0	1125	15.07	46.12	28.3	441	14.2	12.67	188.36	X
0199 C346	0.9	931	14.80	45.49	28.3	484	15.4	12.61	191.06	X
0200 C347	0.8	1042	15.39	46.73	29.0	604	15.8	12.65	200.13	X



ELEMENTS	S	Sb	Sc	Se	Sm	Sn	Sr	Ta	Tb	Te
UNITS	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.05	0.05	0.1	0.5	0.01	0.1	0.05	0.01	0.01	0.2
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										
0161 C308	X	1.23	7.4	X	6.20	2.9	41.60	0.92	0.73	X
0162 C309	X	1.31	6.6	X	6.39	2.6	40.54	0.86	0.76	X
0163 C310	0.05	1.23	9.0	X	6.44	3.2	45.04	0.97	0.79	X
0164 C311	0.06	1.03	7.6	X	6.74	2.7	42.23	0.91	0.77	X
0165 C312	X	1.05	5.7	X	7.96	2.1	34.41	0.69	0.89	X
0166 C313	X	1.10	6.6	X	6.18	2.3	38.36	0.79	0.70	X
0167 C314	0.06	1.22	7.5	X	6.17	2.8	37.26	0.91	0.74	X
0168 C315	X	1.00	5.0	0.5	5.33	2.1	33.68	0.70	0.63	X
0169 C316	X	0.72	4.2	X	5.06	1.7	27.33	0.55	0.56	X
0170 C317	0.46	1.19	3.3	X	4.76	1.6	28.52	0.49	0.58	X
0171 C318	0.08	1.28	11.1	X	8.91	3.8	50.00	1.17	1.04	X
0172 C319	X	1.19	6.8	X	6.21	2.5	38.84	0.90	0.72	X
0173 C320	X	1.24	7.4	X	6.39	2.6	39.91	0.93	0.75	X
0174 C321	X	0.15	0.2	X	0.19	0.7	0.64	0.07	0.02	X
0175 C322	0.08	1.35	8.3	X	6.52	3.0	41.26	0.94	0.80	X
0176 C323	0.10	1.31	9.2	X	6.37	3.2	43.00	1.04	0.74	X
0177 C324	0.08	1.21	6.4	X	6.21	2.5	37.28	0.91	0.74	X
0178 C325	0.08	1.19	5.6	X	6.28	2.3	34.51	0.86	0.73	X
0179 C326	0.07	1.29	6.2	X	8.34	2.9	43.87	1.70	0.93	X
0180 C327	0.09	1.45	8.3	X	6.40	2.9	41.03	1.01	0.77	X
0181 C328	0.06	1.24	6.2	X	6.19	2.6	36.36	0.86	0.72	X
0182 C329	0.09	1.18	6.2	X	6.65	2.5	37.10	0.88	0.78	X
0183 C330	0.11	1.50	7.5	X	7.16	2.9	39.67	1.04	0.85	X
0184 C331	0.06	1.25	6.1	X	7.09	2.6	35.33	0.91	0.81	X
0185 C332	0.07	1.34	7.8	X	7.60	3.0	41.04	1.17	0.87	X
0186 C333	0.07	1.45	8.2	X	7.51	3.1	45.18	1.11	0.87	X
0187 C334	0.05	1.36	7.3	X	6.72	2.8	42.61	0.96	0.76	X
0188 C335	0.06	1.44	10.7	X	7.58	3.6	50.95	1.23	0.89	X
0189 C336	0.12	1.62	10.5	X	7.25	3.5	50.41	1.22	0.93	X
0190 C337	0.06	1.52	9.5	X	7.36	3.4	46.29	1.13	0.86	X
0191 C338	0.05	1.25	11.2	X	7.56	3.7	45.18	1.21	0.91	X
0192 C339	0.08	1.31	11.1	X	8.27	3.7	44.91	1.23	1.02	X
0193 C340	X	1.29	12.0	X	7.06	3.8	44.86	1.23	0.87	X
0194 C341	X	1.41	12.3	X	7.86	3.7	45.29	1.29	0.98	X
0195 C342	X	1.34	12.2	X	7.45	3.7	46.64	1.24	0.94	X
0196 C343	X	1.61	12.4	X	7.97	3.8	47.35	1.31	0.99	X
0197 C344	X	1.65	13.8	0.6	8.18	3.9	53.07	1.27	0.99	X
0198 C345	X	1.55	12.8	X	7.99	3.9	48.36	1.33	0.95	X
0199 C346	X	1.60	13.5	X	7.86	3.9	51.10	1.29	0.95	X
0200 C347	0.06	1.75	13.1	X	8.30	3.8	49.70	1.34	1.03	X



ELEMENTS	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.01	5	0.02	0.01	0.01	1	0.1	0.05	0.01	1
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										
0161 C308	15.04	2514	0.74	0.40	3.18	44	2.5	24.23	2.78	18
0162 C309	14.01	2311	0.68	0.41	3.01	36	2.3	24.35	2.62	18
0163 C310	16.27	2720	0.79	0.43	3.49	52	2.9	26.31	2.83	22
0164 C311	14.77	2440	0.75	0.40	3.25	44	2.5	25.50	2.68	18
0165 C312	10.81	1772	0.56	0.37	2.44	31	1.8	26.19	2.70	14
0166 C313	13.53	2124	0.64	0.36	2.76	38	2.1	22.21	2.41	20
0167 C314	15.13	2496	0.68	0.38	3.08	43	2.4	24.10	2.53	22
0168 C315	11.28	1847	0.58	0.32	2.51	28	1.7	19.50	2.21	16
0169 C316	9.29	1488	0.40	0.27	1.99	23	1.4	18.38	1.74	14
0170 C317	8.31	1259	0.46	0.26	1.88	19	1.1	17.07	1.64	10
0171 C318	18.15	3172	0.92	0.47	3.67	60	3.1	29.47	3.20	54
0172 C319	15.21	2488	0.70	0.39	3.06	35	2.4	23.65	2.59	26
0173 C320	15.72	2525	0.71	0.38	3.23	41	2.4	24.31	2.66	24
0174 C321	0.62	323	X	X	0.13	3	0.2	0.58	0.07	5
0175 C322	15.95	2545	0.76	0.41	3.30	47	2.7	26.19	2.72	24
0176 C323	16.43	2727	0.86	0.41	3.48	52	2.9	24.77	2.74	28
0177 C324	15.71	2318	0.66	0.39	3.10	34	2.4	23.82	2.69	23
0178 C325	15.92	2164	0.62	0.40	3.25	30	2.2	23.29	2.69	23
0179 C326	30.37	2227	0.96	0.53	7.03	28	2.2	32.16	3.72	21
0180 C327	17.47	2819	0.77	0.43	3.52	47	2.7	25.10	2.90	31
0181 C328	14.85	2135	0.67	0.39	3.18	33	2.1	22.62	2.54	21
0182 C329	15.90	2269	0.66	0.39	3.19	35	2.1	24.07	2.68	24
0183 C330	17.58	2716	0.78	0.43	3.59	42	2.5	27.56	2.95	24
0184 C331	16.36	2381	0.66	0.41	3.29	33	2.2	25.25	2.77	22
0185 C332	19.40	2982	0.75	0.45	3.65	41	2.8	27.19	3.06	28
0186 C333	18.15	2836	0.77	0.45	3.66	43	2.7	27.46	2.99	29
0187 C334	17.21	2484	0.72	0.42	3.31	40	2.4	24.85	2.81	26
0188 C335	19.95	3237	0.92	0.47	4.19	60	3.3	28.94	3.12	40
0189 C336	19.18	3215	0.92	0.47	4.07	56	3.4	28.42	3.10	43
0190 C337	19.47	2975	0.87	0.47	4.09	56	3.2	28.62	3.21	43
0191 C338	19.91	3172	0.89	0.48	4.23	59	3.6	29.77	3.27	45
0192 C339	19.80	3236	0.87	0.48	4.22	58	3.5	33.64	3.18	50
0193 C340	19.48	3327	0.87	0.48	4.46	65	3.6	29.74	3.19	57
0194 C341	20.01	3468	0.86	0.49	4.38	60	3.8	31.24	3.27	60
0195 C342	19.87	3454	0.89	0.50	4.43	66	4.0	30.49	3.18	59
0196 C343	20.43	3641	0.88	0.50	4.44	66	4.2	32.21	3.36	60
0197 C344	21.64	3352	1.00	0.51	4.78	76	4.2	34.52	3.71	64
0198 C345	21.71	3426	0.92	0.51	4.64	67	4.3	30.66	3.43	62
0199 C346	21.34	3437	0.94	0.53	4.76	70	4.4	31.98	3.39	67
0200 C347	21.68	3461	0.99	0.53	4.73	66	4.5	33.96	3.61	68



ELEMENTS Zr
UNITS ppm
DETECTION LIMIT 0.1
DIGEST 4A/
ANALYTICAL FINISH MS
SAMPLE NUMBERS

0161 C308	259.8
0162 C309	286.9
0163 C310	249.9
0164 C311	223.8
0165 C312	167.7
0166 C313	224.5
0167 C314	216.8
0168 C315	230.2
0169 C316	170.5
0170 C317	187.7
0171 C318	221.6
0172 C319	243.1
0173 C320	258.0
0174 C321	8.9
0175 C322	246.0
0176 C323	236.4
0177 C324	248.8
0178 C325	313.7
0179 C326	202.3
0180 C327	252.2
0181 C328	305.2
0182 C329	278.0
0183 C330	295.6
0184 C331	296.2
0185 C332	285.2
0186 C333	267.5
0187 C334	253.0
0188 C335	222.8
0189 C336	223.6
0190 C337	253.5
0191 C338	214.5
0192 C339	231.2
0193 C340	204.1
0194 C341	199.5
0195 C342	203.4
0196 C343	216.0
0197 C344	200.6
0198 C345	204.8
0199 C346	200.0
0200 C347	208.4



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										
0201 C348	X	X	8.87%	7.5	373.3	3.76	0.85	1481	X	112.82
0202 C349	X	0.06	8.44%	9.0	347.1	3.58	0.93	2655	0.03	112.59
0203 C350	X	0.09	8.12%	9.5	338.3	3.51	0.84	1775	0.08	110.17
0204 C351	X	0.10	8.20%	11.9	349.7	3.50	0.87	5706	0.07	111.85
0205 C352	0.492	0.65	7.80%	221.7	315.2	2.83	4.21	2.97%	0.19	37.42
0206 C353	X	0.12	8.07%	12.7	350.6	3.59	0.85	3916	0.07	107.43
0207 C354	X	0.06	7.99%	12.9	384.5	3.35	0.88	1844	0.12	107.39
0208 C355	X	0.07	7.76%	10.8	434.8	3.25	0.81	2510	0.18	111.49
0209 C356	X	0.09	6.59%	16.6	552.9	2.54	0.79	1660	0.25	101.18
0210 C357	X	X	8.25%	23.0	398.3	3.39	0.90	1121	0.18	111.50
0211 C358	X	0.06	10.47%	26.6	424.9	4.75	1.10	1733	0.25	121.85
0212 C359	X	0.06	10.03%	17.2	407.7	4.32	1.03	2229	0.17	116.66
0213 C360	X	X	10.16%	24.3	408.5	4.21	1.03	1471	0.17	116.59
0214 C361	X	0.06	10.51%	27.3	433.1	4.20	0.99	1422	0.19	116.34
0215 C362	X	0.06	10.09%	15.5	404.8	4.47	1.08	1888	0.10	119.95
0216 C363	X	0.07	9.90%	17.1	418.5	4.43	1.27	1818	0.06	123.63
0217 C364	X	0.06	9.37%	15.5	385.4	4.11	1.16	1976	0.04	122.70
0218 C365	X	0.05	9.92%	17.0	418.1	4.39	1.05	1850	0.12	119.78
0219 C366	X	0.08	10.50%	14.4	432.6	4.33	1.02	1436	0.05	115.19
0220 C367	X	0.05	10.71%	17.4	455.0	4.51	1.01	2420	0.04	116.23
0221 C368	X	X	10.13%	17.9	412.3	4.08	0.72	2078	0.15	101.14
0222 C369	X	X	10.15%	14.8	415.8	4.11	0.78	1782	0.10	103.54
0223 C370	X	X	10.65%	18.2	447.5	4.14	0.73	1804	0.10	103.51
0224 C371	X	X	10.75%	15.7	445.6	4.29	0.78	1929	0.09	107.54
CHECKS										
0001 C161	X	0.09	7.39%	11.5	589.7	2.72	0.52	7062	0.15	87.72
0002 C199	X	0.09	6.31%	10.7	448.7	2.75	0.55	5995	0.12	82.44
0003 C210	X	0.09	7.08%	76.0	498.9	2.95	0.63	5759	0.23	114.13
0004 C248	X	0.06	5.48%	6.6	500.8	1.50	0.24	1.48%	0.14	141.97
0005 C263	X	0.08	6.14%	10.1	484.6	2.36	0.40	6665	0.24	75.77
0006 C287	X	0.07	5.48%	17.0	445.5	2.06	0.41	2.27%	0.11	68.04
0007 C323	X	0.08	6.64%	6.7	459.6	2.73	0.42	584	0.04	90.24
0008 C341	X	X	8.01%	6.0	405.7	3.29	0.66	1737	X	105.92
STANDARDS										
0001 KLEN74966	28.846									
0002 KLEN81250	7.527									
0003 KLEN81348	5.295									
0004 KLEN79276	2.709									



ELEMENTS	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
DETECTION LIMIT	0.1	1	0.05	0.5	0.01	0.01	0.01	0.01	0.05	0.01
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										
0201 C348	13.7	49	17.17	25.9	5.76	3.62	1.35	4.53	22.22	6.32
0202 C349	13.3	49	15.04	32.1	5.97	3.74	1.42	4.79	21.49	6.73
0203 C350	12.3	50	14.59	31.3	5.65	3.54	1.35	4.56	20.39	6.64
0204 C351	14.0	45	14.92	34.4	6.35	3.68	1.53	4.99	20.78	7.78
0205 C352	21.1	118	9.94	242.0	2.10	1.11	0.80	3.83	18.80	2.68
0206 C353	13.6	49	15.01	27.6	5.95	3.61	1.40	4.32	19.89	6.73
0207 C354	11.8	44	14.45	22.6	5.39	3.35	1.23	3.91	18.81	6.13
0208 C355	11.4	45	13.43	23.2	5.65	3.51	1.29	3.86	18.59	6.38
0209 C356	12.6	44	9.99	25.2	5.37	3.28	1.32	4.52	15.73	6.10
0210 C357	12.1	47	14.83	28.2	5.45	3.45	1.22	4.00	20.80	5.98
0211 C358	15.8	52	22.51	36.5	6.71	4.04	1.65	4.67	26.19	7.61
0212 C359	14.4	55	20.16	37.7	6.62	3.89	1.68	5.26	25.17	7.94
0213 C360	14.4	54	21.17	32.7	6.45	3.84	1.51	4.26	25.93	7.27
0214 C361	14.7	54	21.95	32.5	6.10	3.68	1.50	4.18	26.18	6.75
0215 C362	13.2	52	19.57	38.0	6.71	3.98	1.63	4.78	25.14	7.67
0216 C363	16.7	49	19.00	38.3	6.79	4.11	1.60	5.21	24.59	7.92
0217 C364	14.5	57	16.43	40.6	6.50	3.97	1.61	5.19	23.45	7.63
0218 C365	14.5	57	18.38	36.2	6.46	3.88	1.54	4.82	25.26	7.35
0219 C366	16.6	61	20.58	42.6	5.97	3.80	1.53	5.00	26.46	7.81
0220 C367	16.6	60	20.92	39.1	6.49	3.86	1.59	5.85	26.68	7.45
0221 C368	13.4	56	20.60	33.2	5.69	3.40	1.37	4.91	24.82	6.70
0222 C369	10.7	58	21.57	33.6	6.05	3.62	1.45	4.99	26.07	6.91
0223 C370	12.7	58	22.16	35.2	5.85	3.55	1.36	4.84	26.91	6.47
0224 C371	12.6	57	22.75	37.0	5.89	3.53	1.42	4.91	27.24	6.95

CHECKS										
0001 C161	8.8	33	12.06	25.2	5.37	3.34	1.21	2.47	16.79	5.90
0002 C199	4.4	17	9.39	9.6	4.75	3.06	1.03	1.85	14.10	5.35
0003 C210	7.5	27	10.62	17.0	8.49	5.28	1.21	3.32	19.55	9.30
0004 C248	1.4	8	1.57	2.5	11.36	7.02	0.70	1.80	16.58	10.87
0005 C263	8.7	37	10.43	14.7	4.20	2.57	0.99	2.63	14.72	4.80
0006 C287	6.5	36	12.69	12.1	4.12	2.57	0.91	2.53	12.68	4.49
0007 C323	10.5	39	11.84	25.4	4.60	2.84	1.08	2.56	16.08	5.33
0008 C341	12.7	48	14.15	24.1	5.98	3.49	1.43	4.47	19.70	6.91

STANDARDS										
0001 KLEN74966										
0002 KLEN81250										
0003 KLEN81348										
0004 KLEN79276										



ELEMENTS	Ge	Hf	Ho	In	K	La	Li	Lu	Mg	Mn
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.1	0.05	0.01	0.01	20	0.01	0.1	0.01	20	1
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										
0201 C348	1.9	5.68	1.16	0.06	3.54%	55.70	47.0	0.55	1.15%	1023
0202 C349	1.9	5.72	1.21	0.07	3.26%	55.26	47.1	0.55	1.13%	1790
0203 C350	2.1	5.93	1.15	0.07	2.81%	53.30	48.1	0.54	1.08%	1131
0204 C351	1.9	5.96	1.24	0.06	3.11%	54.43	48.1	0.55	1.11%	2526
0205 C352	1.3	2.09	0.40	0.18	1.87%	19.21	28.3	0.16	1.59%	561
0206 C353	2.0	5.99	1.18	0.07	3.00%	51.75	46.2	0.53	1.08%	1172
0207 C354	2.0	6.33	1.23	0.06	2.89%	52.37	44.8	0.54	9704	428
0208 C355	2.1	6.30	1.13	0.05	2.81%	53.87	43.7	0.54	9470	622
0209 C356	2.1	6.76	1.03	0.05	2.25%	47.89	45.4	0.50	8765	2220
0210 C357	1.9	6.11	1.10	0.06	3.04%	53.91	44.3	0.53	8749	352
0211 C358	2.0	5.25	1.33	0.11	4.06%	62.70	43.6	0.60	9361	1843
0212 C359	2.3	5.26	1.32	0.09	3.75%	59.93	46.0	0.62	9748	1743
0213 C360	1.9	5.10	1.27	0.08	3.92%	59.15	43.6	0.55	8908	269
0214 C361	2.2	4.95	1.22	0.09	4.11%	60.12	40.5	0.55	8457	1267
0215 C362	2.2	5.21	1.36	0.07	3.72%	61.06	45.3	0.58	9361	857
0216 C363	2.0	5.44	1.36	0.07	3.17%	62.89	45.5	0.59	9414	1569
0217 C364	2.3	5.68	1.31	0.07	3.34%	61.22	46.8	0.58	9156	1612
0218 C365	2.2	5.40	1.31	0.08	3.61%	60.66	44.7	0.60	9019	1437
0219 C366	2.5	5.20	1.22	0.09	3.56%	60.99	48.1	0.56	9489	645
0220 C367	2.4	4.71	1.29	0.10	2.66%	61.14	46.8	0.56	9666	1801
0221 C368	2.2	4.30	1.13	0.08	3.71%	53.18	42.9	0.50	8350	1203
0222 C369	2.2	4.49	1.17	0.09	3.74%	55.71	44.8	0.54	8086	1372
0223 C370	2.5	4.47	1.16	0.06	3.86%	55.50	45.4	0.54	8239	1256
0224 C371	2.4	4.53	1.18	0.09	3.82%	57.90	48.2	0.55	8437	979

CHECKS										
0001 C161	1.5	6.44	1.12	0.06	3.73%	42.73	19.9	0.51	8039	438
0002 C199	1.4	5.56	0.97	0.05	3.03%	40.86	20.1	0.47	7166	381
0003 C210	1.3	7.61	1.71	0.09	2.13%	54.68	21.2	0.76	7421	345
0004 C248	0.9	7.25	2.20	0.12	2.38%	70.80	9.3	1.16	6352	1116
0005 C263	1.4	4.99	0.83	0.04	4.55%	37.48	25.4	0.39	7990	918
0006 C287	1.4	5.00	0.83	0.04	3.52%	34.89	25.9	0.39	1.73%	437
0007 C323	1.7	6.48	0.91	0.04	3.51%	44.01	33.5	0.43	8743	161
0008 C341	1.6	5.71	1.17	0.05	3.36%	51.59	49.2	0.51	1.15%	724

STANDARDS

0001 KLEN74966
0002 KLEN81250
0003 KLEN81348
0004 KLEN79276



ELEMENTS	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	Re
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.1	20	0.05	0.01	0.5	50	0.5	0.01	0.05	0.002
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										
0201 C348	0.8	1127	14.95	46.18	26.4	381	13.3	12.69	210.53	X
0202 C349	0.9	925	16.04	46.05	29.4	530	19.3	12.54	192.99	X
0203 C350	1.1	1176	15.66	44.66	26.5	466	77.9	12.35	170.80	X
0204 C351	2.5	6157	15.95	46.86	27.4	867	78.1	12.67	182.59	X
0205 C352	11.3	1.85%	5.31	15.96	261.7	499	74.2	4.33	197.06	0.003
0206 C353	0.9	1000	14.92	44.01	24.8	500	76.9	12.04	182.24	X
0207 C354	0.7	2139	14.60	42.08	21.4	283	46.0	11.67	173.76	X
0208 C355	0.9	1961	14.71	44.27	21.0	408	57.2	12.27	167.05	X
0209 C356	0.9	966	12.79	40.20	20.9	533	69.7	11.09	130.35	X
0210 C357	2.2	1213	14.28	44.79	20.6	345	38.2	12.30	180.61	X
0211 C358	0.7	1197	15.57	51.17	26.2	534	49.1	14.22	246.94	X
0212 C359	0.8	1132	15.17	48.55	26.8	866	39.0	13.54	230.50	X
0213 C360	1.0	1196	14.97	49.40	24.7	426	34.3	13.47	237.13	X
0214 C361	1.0	1258	14.75	48.72	24.9	406	38.5	13.38	246.82	X
0215 C362	1.1	1175	15.92	51.20	27.7	701	35.7	13.87	224.43	X
0216 C363	0.7	1187	17.22	51.32	28.5	647	39.1	14.29	186.76	X
0217 C364	3.0	1150	17.18	51.16	27.8	772	27.5	13.92	199.01	X
0218 C365	10.3	1254	16.06	50.34	25.1	672	31.4	13.78	218.67	X
0219 C366	0.8	1316	15.77	49.33	30.5	470	25.1	13.49	218.26	X
0220 C367	0.7	1393	15.23	50.06	32.8	929	31.8	13.52	153.84	X
0221 C368	0.8	1362	13.43	44.10	28.6	728	22.4	12.06	231.23	X
0222 C369	0.7	1421	14.23	44.82	27.3	659	21.7	12.38	230.52	X
0223 C370	1.0	1492	13.97	43.55	29.1	644	19.2	12.14	237.02	X
0224 C371	1.1	1542	14.05	46.15	29.6	655	27.8	12.80	241.14	X

CHECKS										
0001 C161	2.3	9867	12.00	37.01	15.5	498	38.7	9.77	210.20	X
0002 C199	1.7	1.14%	11.85	33.69	8.2	393	26.8	9.42	185.48	0.003
0003 C210	3.8	9920	19.74	49.21	17.3	548	79.2	13.05	110.58	X
0004 C248	2.3	2.06%	48.10	58.93	1.5	106	84.2	16.14	89.31	X
0005 C263	2.1	3122	10.51	31.75	14.4	586	24.2	8.65	241.28	X
0006 C287	4.3	3485	9.58	28.69	14.6	430	29.2	7.80	201.60	X
0007 C323	0.8	695	11.88	36.50	13.5	157	24.7	10.06	192.24	0.002
0008 C341	1.0	773	15.14	43.34	27.9	621	12.0	11.92	195.00	X

STANDARDS										
0001 KLEN74966										
0002 KLEN81250										
0003 KLEN81348										
0004 KLEN79276										



ELEMENTS	S	Sb	Sc	Se	Sm	Sn	Sr	Ta	Tb	Te
UNITS	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.05	0.05	0.1	0.5	0.01	0.1	0.05	0.01	0.01	0.2
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										
0201 C348	X	1.62	13.1	X	7.63	3.9	53.99	1.29	0.92	X
0202 C349	0.07	1.64	13.2	X	7.86	4.1	51.93	1.37	0.97	X
0203 C350	X	1.62	12.8	X	7.72	4.0	48.37	1.35	0.93	X
0204 C351	0.12	1.81	12.5	X	8.42	4.1	53.93	1.32	1.06	X
0205 C352	0.18	4.95	9.5	0.5	2.99	13.7	185.94	0.69	0.35	X
0206 C353	X	1.57	12.1	X	7.66	3.9	48.86	1.28	0.93	X
0207 C354	X	1.86	10.7	X	7.19	3.7	49.08	1.43	0.87	X
0208 C355	X	1.81	11.0	X	7.53	3.6	51.77	1.33	0.89	X
0209 C356	0.06	1.72	8.9	X	7.26	3.3	50.76	1.16	0.86	X
0210 C357	0.06	1.83	12.7	X	7.58	4.3	59.25	1.30	0.85	X
0211 C358	0.07	2.70	16.1	X	8.97	4.4	79.41	1.38	1.08	X
0212 C359	X	1.71	15.9	0.5	8.65	4.3	75.97	1.33	1.10	X
0213 C360	0.05	1.89	16.3	X	8.46	4.3	76.48	1.32	1.03	X
0214 C361	0.05	2.10	16.9	0.6	8.61	4.4	79.67	1.30	0.96	X
0215 C362	0.05	1.74	15.9	X	8.92	4.4	80.80	1.35	1.07	X
0216 C363	0.08	1.81	16.0	X	8.98	4.4	81.88	1.46	1.09	X
0217 C364	X	1.70	15.0	X	9.15	4.3	76.15	1.49	1.06	X
0218 C365	0.07	1.79	16.1	X	8.62	4.5	81.35	1.39	1.04	X
0219 C366	0.08	1.94	16.9	X	8.36	4.5	84.79	1.37	0.97	X
0220 C367	0.09	1.96	17.2	X	8.77	4.5	87.96	1.37	1.05	X
0221 C368	X	1.76	15.6	X	7.59	4.1	78.68	1.13	0.93	X
0222 C369	0.05	1.75	16.1	X	7.73	4.4	84.30	1.26	0.97	X
0223 C370	X	1.77	16.6	X	7.50	4.4	84.68	1.21	0.91	X
0224 C371	0.06	1.78	16.3	X	8.00	4.3	85.52	1.23	0.95	X

CHECKS										
0001 C161	0.72	1.75	9.9	X	6.68	3.1	70.02	1.05	0.84	X
0002 C199	0.42	1.67	6.7	X	5.87	2.8	64.68	1.01	0.76	X
0003 C210	1.96	2.51	8.1	X	9.48	4.3	67.07	1.46	1.33	X
0004 C248	0.24	0.88	3.6	X	11.08	5.4	31.88	3.04	1.77	X
0005 C263	0.52	1.70	8.6	X	5.37	2.8	46.73	0.93	0.69	X
0006 C287	1.33	1.59	7.2	X	5.01	2.6	70.26	0.85	0.64	X
0007 C323	0.08	1.24	9.4	X	6.10	3.3	43.29	1.03	0.74	X
0008 C341	X	1.45	12.5	X	7.74	3.8	45.84	1.33	1.01	X

STANDARDS										
0001 KLEN74966										
0002 KLEN81250										
0003 KLEN81348										
0004 KLEN79276										



ELEMENTS	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.01	5	0.02	0.01	0.01	1	0.1	0.05	0.01	1
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										
0201 C348	22.74	3194	0.95	0.53	5.03	68	4.2	31.76	3.45	55
0202 C349	21.09	3529	0.91	0.54	4.62	71	4.3	32.74	3.54	60
0203 C350	20.79	3373	0.83	0.52	4.63	70	4.2	30.83	3.31	73
0204 C351	21.04	3510	0.86	0.62	4.75	71	4.6	33.99	3.58	69
0205 C352	7.68	3113	1.73	0.16	2.32	73	26.9	10.63	1.11	108
0206 C353	20.71	3238	0.86	0.52	4.96	69	4.1	31.99	3.54	67
0207 C354	21.58	3094	0.82	0.49	4.61	56	4.1	29.33	3.39	73
0208 C355	21.80	3135	0.78	0.51	4.76	59	3.9	29.82	3.45	79
0209 C356	19.00	2856	0.63	0.47	4.22	52	3.4	28.00	3.11	137
0210 C357	21.31	3270	0.86	0.51	5.08	65	4.1	29.17	3.40	90
0211 C358	25.40	3374	1.21	0.57	6.42	84	5.0	35.86	3.94	135
0212 C359	23.29	3465	1.11	0.58	5.81	87	4.8	36.18	3.75	101
0213 C360	22.97	3439	1.12	0.53	5.80	85	4.7	34.82	3.57	111
0214 C361	22.84	3334	1.12	0.53	5.91	89	4.7	33.75	3.69	126
0215 C362	23.37	3551	1.07	0.56	5.68	87	4.8	36.47	3.71	97
0216 C363	24.01	3743	1.01	0.58	5.81	81	5.2	39.10	3.90	86
0217 C364	23.37	3717	0.93	0.57	5.42	77	4.9	35.22	3.68	72
0218 C365	23.70	3650	1.04	0.58	5.81	82	4.9	35.08	3.83	84
0219 C366	23.83	3497	1.13	0.54	5.51	90	4.9	33.59	3.56	60
0220 C367	23.77	3463	1.15	0.56	5.41	88	5.0	35.82	3.78	61
0221 C368	20.95	2968	1.06	0.49	4.77	81	4.2	32.03	3.27	90
0222 C369	22.43	3048	1.10	0.52	4.88	81	4.6	32.95	3.48	86
0223 C370	22.04	2974	1.11	0.50	4.90	86	4.5	32.27	3.44	68
0224 C371	22.33	2968	1.13	0.53	4.98	81	4.5	32.65	3.45	91

CHECKS										
0001 C161	18.10	2704	1.45	0.50	5.16	52	2.6	29.73	3.34	88
0002 C199	17.24	1894	1.25	0.45	4.49	25	2.3	26.75	3.00	66
0003 C210	20.12	2566	4.16	0.75	5.12	44	2.7	45.57	4.95	123
0004 C248	27.67	1117	0.49	1.05	7.31	5	1.1	64.42	7.22	36
0005 C263	15.06	2591	1.30	0.38	3.77	45	2.9	22.82	2.49	92
0006 C287	13.77	2195	1.59	0.38	6.74	40	2.2	24.01	2.53	73
0007 C323	16.39	2766	0.83	0.40	3.47	53	2.9	24.61	2.76	27
0008 C341	19.88	3580	0.88	0.50	4.40	62	3.9	31.53	3.37	60

STANDARDS

0001 KLEN74966
0002 KLEN81250
0003 KLEN81348
0004 KLEN79276



ELEMENTS	Zr
UNITS	ppm
DETECTION LIMIT	0.1
DIGEST	4A/
ANALYTICAL FINISH	MS
SAMPLE NUMBERS	

0201 C348	196.0
0202 C349	200.4
0203 C350	210.6
0204 C351	212.4
0205 C352	75.7
0206 C353	212.5
0207 C354	220.1
0208 C355	213.9
0209 C356	240.0
0210 C357	212.1
0211 C358	174.8
0212 C359	176.1
0213 C360	175.1
0214 C361	167.6
0215 C362	176.4
0216 C363	190.2
0217 C364	197.7
0218 C365	183.8
0219 C366	172.3
0220 C367	156.6
0221 C368	145.7
0222 C369	146.8
0223 C370	149.1
0224 C371	150.3

CHECKS	
0001 C161	221.9
0002 C199	193.7
0003 C210	246.8
0004 C248	223.9
0005 C263	178.1
0006 C287	181.8
0007 C323	239.2
0008 C341	203.4

STANDARDS	
0001 KLEN74966	
0002 KLEN81250	
0003 KLEN81348	
0004 KLEN79276	



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
STANDARDS										
0005 KLEN75226	0.061									
0006 KLEN80376	1.974									
0007 KLEN79278	48.418									
0008 KLEN74358	4.875									
0009 KLEN81947	3.150									
0010 OREAS 503c		0.87	7.20%	36.2	990.6	2.63	0.62	2.61%	0.24	62.15
0011 OREAS 282		0.65	3.01%	2518.7	105.4	1.00	1.00	18.85%	1.18	38.08
0012 OREAS 282		0.65	3.01%	2479.7	106.6	0.96	0.94	18.68%	0.99	37.71
0013 OREAS 610		48.60	5.88%	2900.1	432.6	1.50	207.24	2412	11.74	46.90
0014 OREAS 45f		0.09	10.31%	9.6	207.6	1.28	0.20	999	X	29.87
0015 OREAS 625		12.08	7.14%	148.5	818.0	2.72	8.95	1.22%	80.81	86.28
0016 OREAS 503c		0.88	7.86%	37.2	1016.5	2.85	0.64	2.84%	0.22	67.30
0017 OREAS 628		10.28	7.01%	200.8	798.2	2.75	12.59	9690	26.85	80.35
BLANKS										
0001 Control Blank	X	X	X	X	X	X	X	X	X	0.03
0002 Control Blank	X	X	54	X	0.1	X	X	X	X	0.02
0003 Control Blank	X	X	X	X	X	X	X	X	X	X
0004 Control Blank	X	X	X	X	0.2	X	X	X	X	0.02
0005 Control Blank	X	X	X	X	0.2	X	X	X	X	0.03
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	0.02
0008 Control Blank	X	X	X	X	X	X	X	X	X	0.03
0009 Control Blank	X	X	138	X	0.2	X	X	X	X	0.03



ELEMENTS	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
DETECTION LIMIT	0.1	1	0.05	0.5	0.01	0.01	0.01	0.01	0.05	0.01
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
STANDARDS										
0005 KLEN75226										
0006 KLEN80376										
0007 KLEN79278										
0008 KLEN74358										
0009 KLEN81947										
0010 OREAS 503c	14.9	61	10.21	5369.9	4.18	2.49	1.21	5.14	17.92	4.93
0011 OREAS 282	3.8	40	8.65	19.7	2.72	1.55	0.71	1.16	7.19	3.24
0012 OREAS 282	3.8	39	8.73	19.8	2.56	1.47	0.69	1.13	7.51	3.11
0013 OREAS 610	7.7	41	2.20	9571.6	1.62	0.61	0.78	2.35	24.33	2.98
0014 OREAS 45f	44.5	409	3.77	365.6	2.36	1.33	0.64	14.97	27.68	2.54
0015 OREAS 625	4.3	10	6.31	1730.0	3.67	1.30	1.49	4.18	20.85	5.81
0016 OREAS 503c	15.1	62	10.45	5544.6	4.59	2.58	1.29	5.39	18.71	5.07
0017 OREAS 628	31.2	22	7.00	1.74%	3.40	1.14	1.43	5.03	20.60	5.86
BLANKS										
0001 Control Blank	X	X	X	X	X	X	X	X	X	X
0002 Control Blank	X	1	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	X
0005 Control Blank	X	X	X	X	X	X	X	X	X	X
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
0009 Control Blank	X	X	X	1.3	X	X	X	0.01	X	0.02



ELEMENTS	Ge	Hf	Ho	In	K	La	Li	Lu	Mg	Mn
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.1	0.05	0.01	0.01	20	0.01	0.1	0.01	20	1
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
STANDARDS										
0005 KLEN75226										
0006 KLEN80376										
0007 KLEN79278										
0008 KLEN74358										
0009 KLEN81947										
0010 OREAS 503c	1.3	2.25	0.82	0.08	3.06%	31.22	31.5	0.34	1.49%	538
0011 OREAS 282	0.4	1.59	0.53	0.05	1.87%	20.96	23.2	0.21	3.56%	272
0012 OREAS 282	0.4	1.70	0.52	0.07	1.85%	21.35	23.0	0.20	3.52%	270
0013 OREAS 610	5.1	2.11	0.24	3.81	1.95%	22.41	29.9	0.09	1583	78
0014 OREAS 45f	1.2	4.57	0.46	0.11	2279	16.68	21.0	0.19	2439	235
0015 OREAS 625	0.9	6.50	0.56	2.19	2.96%	41.48	19.0	0.15	2801	4667
0016 OREAS 503c	1.4	2.28	0.89	0.09	3.15%	33.61	33.3	0.37	1.60%	564
0017 OREAS 628	1.1	4.95	0.49	2.65	2.85%	40.16	30.1	0.12	3824	1810
BLANKS										
0001 Control Blank	X	X	X	X	X	0.02	X	X	X	X
0002 Control Blank	X	X	X	X	50	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	0.02	X	X	X	X
0005 Control Blank	X	X	X	X	X	0.02	X	X	X	1
0006 Control Blank	X	X	X	X	X	X	X	X	X	X
0007 Control Blank	X	X	X	X	22	X	X	X	X	X
0008 Control Blank	X	X	X	X	26	0.01	X	X	X	X
0009 Control Blank	X	X	X	X	X	X	0.1	X	X	2



ELEMENTS	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	Re
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.1	20	0.05	0.01	0.5	50	0.5	0.01	0.05	0.002
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
STANDARDS										
0005 KLEN75226										
0006 KLEN80376										
0007 KLEN79278										
0008 KLEN74358										
0009 KLEN81947										
0010 OREAS 503c	339.2	1.98%	16.53	27.29	38.3	935	21.1	7.19	174.43	0.004
0011 OREAS 282	14.1	666	6.04	18.57	22.8	348	19.8	4.84	128.61	0.022
0012 OREAS 282	13.9	674	5.93	18.56	22.5	316	19.8	4.87	127.15	0.029
0013 OREAS 610	4.6	8194	8.31	19.61	23.0	529	659.2	5.48	63.76	0.003
0014 OREAS 45f	2.2	657	23.10	13.31	247.8	323	14.3	3.51	31.59	X
0015 OREAS 625	12.8	2.04%	15.55	37.87	5.7	329	8282.5	10.00	141.33	0.005
0016 OREAS 503c	345.4	2.14%	16.78	29.23	38.5	1037	22.5	7.87	178.68	0.003
0017 OREAS 628	23.9	2.04%	15.47	36.16	12.5	435	2579.3	9.55	143.83	0.023
BLANKS										
0001 Control Blank	X	23	X	X	X	X	X	X	X	X
0002 Control Blank	X	X	X	X	X	X	X	X	0.14	X
0003 Control Blank	X	21	X	X	X	X	X	X	0.05	X
0004 Control Blank	X	23	X	0.02	X	X	0.7	0.01	0.05	X
0005 Control Blank	X	X	X	0.02	X	X	1.1	X	X	X
0006 Control Blank	X	X	X	X	X	X	0.8	X	X	X
0007 Control Blank	X	X	X	0.02	X	X	1.1	X	X	X
0008 Control Blank	X	X	X	X	X	X	0.6	X	X	X
0009 Control Blank	X	X	X	0.03	X	X	X	0.02	X	X



ELEMENTS	S	Sb	Sc	Se	Sm	Sn	Sr	Ta	Tb	Te
UNITS	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.05	0.05	0.1	0.5	0.01	0.1	0.05	0.01	0.01	0.2
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
STANDARDS										
0005 KLEN75226										
0006 KLEN80376										
0007 KLEN79278										
0008 KLEN74358										
0009 KLEN81947										
0010 OREAS 503c	0.54	3.60	13.1	2.7	5.07	3.5	328.61	1.22	0.67	0.4
0011 OREAS 282	0.69	16.01	4.1	2.1	3.92	1.5	286.20	0.43	0.45	0.2
0012 OREAS 282	0.74	15.71	3.8	2.1	3.28	1.5	284.73	0.43	0.43	0.4
0013 OREAS 610	3.97	299.35	3.2	29.4	3.62	26.5	315.17	0.69	0.34	39.6
0014 OREAS 45f	X	0.62	37.8	2.4	2.46	2.7	25.44	1.54	0.35	X
0015 OREAS 625	3.98	36.75	5.0	0.5	6.93	3.6	136.76	1.17	0.74	X
0016 OREAS 503c	0.60	3.69	14.0	2.7	5.50	3.5	348.41	1.22	0.73	0.4
0017 OREAS 628	3.73	26.73	4.9	18.0	6.83	5.8	150.25	1.20	0.71	3.6
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	0.01	X	X	X	X	X
0005 Control Blank	X	X	X	X	X	X	X	X	X	X
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
0009 Control Blank	X	X	X	X	X	X	0.12	X	X	X



ELEMENTS	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.01	5	0.02	0.01	0.01	1	0.1	0.05	0.01	1
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
STANDARDS										
0005 KLEN75226										
0006 KLEN80376										
0007 KLEN79278										
0008 KLEN74358										
0009 KLEN81947										
0010 OREAS 503c	17.86	4503	0.87	0.34	4.77	124	4.1	22.99	2.36	86
0011 OREAS 282	5.57	1725	31.00	0.22	7.56	111	27.8	17.01	1.39	127
0012 OREAS 282	5.49	1700	30.29	0.21	7.42	113	27.5	16.71	1.29	126
0013 OREAS 610	9.25	1630	1.89	0.07	2.58	30	7.8	6.53	0.52	1642
0014 OREAS 45f	9.87	1.12%	0.20	0.18	2.00	263	1.3	11.15	1.25	35
0015 OREAS 625	13.91	1291	10.32	0.16	5.54	11	4.2	15.70	1.00	>2.00%
0016 OREAS 503c	17.59	4858	0.94	0.36	4.74	131	4.6	24.10	2.33	88
0017 OREAS 628	13.41	1532	4.24	0.14	4.85	19	3.0	14.47	0.83	9679
BLANKS										
0001 Control Blank	0.01	X	X	X	X	X	X	X	X	X
0002 Control Blank	X	X	X	X	X	X	X	X	X	2
0003 Control Blank	X	X	X	X	X	X	X	X	X	X
0004 Control Blank	0.01	X	X	X	X	X	X	0.05	X	X
0005 Control Blank	0.01	X	X	X	X	1	X	X	X	X
0006 Control Blank	X	X	X	X	X	X	X	X	X	X
0007 Control Blank	X	X	X	X	X	1	X	X	X	X
0008 Control Blank	X	X	X	X	X	X	X	X	X	X
0009 Control Blank	0.03	7	X	X	0.01	X	X	X	X	2



ELEMENTS	Zr
UNITS	ppm
DETECTION LIMIT	0.1
DIGEST	4A/
ANALYTICAL FINISH	MS
STANDARDS	

0005 KLEN75226

0006 KLEN80376

0007 KLEN79278

0008 KLEN74358

0009 KLEN81947

0010 OREAS 503c 75.0

0011 OREAS 282 56.9

0012 OREAS 282 56.3

0013 OREAS 610 64.1

0014 OREAS 45f 183.3

0015 OREAS 625 238.8

0016 OREAS 503c 73.3

0017 OREAS 628 178.5

BLANKS

0001 Control Blank X

0002 Control Blank 0.2

0003 Control Blank 0.1

0004 Control Blank 0.2

0005 Control Blank 0.1

0006 Control Blank X

0007 Control Blank X

0008 Control Blank 0.1

0009 Control Blank 0.1



METHOD CODE DESCRIPTION

Method Code Date Tested	Analysing Laboratory NATA Laboratory Accreditation	NATA Scope of Accreditation
4A/MS 15/03/24 12:30	Intertek Genalysis Townsville 3244 20462 Multi-acid digest including Hydrofluoric, Nitric, Perchloric and Hydrochloric acids in Teflon Tubes. Analysed by Inductively Coupled Plasma Mass Spectrometry.	MPL_W002, MS_IM_001(Per), *(AdI)
FA25/OE 16/03/24 08:31	Intertek Genalysis Townsville 3244 20462 25g Lead collection fire assay. Analysed by Inductively Coupled Plasma Optical (Atomic) Emission Spectrometry.	FA_IM_001, GL_W006, ICP_IM_001

* Denotes not on Scope of Accreditation