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Page: 1
Finalized Date: 1-DEC-2008
Account: NUPRES

CERTIFICATE AS08152924

Project: STRANG WAYS

P.O. No.: 2008/20 (266180)

This report is for 114 Stream Sediment samples submitted to our lab in Alice Springs, NT, Australia on 27-OCT-2008.

The following have access to data associated with this certificate:

WARRICK RAFFERTY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
WSH-22	"Wash" pulverizers
LEV-01	Waste Disposal Levy
LEV-02	Remote Lab Surcharge
CRU-21	Crush entire sample >70% -6 mm
PUL-23	Pulv Sample - Split/Retain
BAG-01	Bulk Master for Storage
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-TL44	Trace Level Au - 50 g AR	ICP-MS
ME-MS61	48 element four acid ICP-MS	

To: **NUPOWER RESOURCES LTD**
ATTN: WARRICK RAFFERTY
GPO BOX 2552
DARWIN NT 0801

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Wayne Abbott, Operations Manager, Western Australia



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CERTIFICATE OF ANALYSIS AS08152924

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt.	PUL-QC Pass75um %	Au-TL44 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm
		0.02	0.01	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
FLUSH A		<0.02		<0.001	0.02	5.1	0.4	850	0.69	<0.01	0.88	<0.02	15.7	2	19	0.65
FLUSH B		<0.02		<0.001	0.03	5.15	0.3	860	1.28	0.01	0.89	0.05	23.7	3.5	13	1.05
FLUSH C		<0.02		<0.001	0.02	5.35	0.2	900	1.22	0.01	0.92	0.06	24.2	3.2	20	1.04
12488		2.14		<0.001	0.05	4.04	0.6	630	0.76	0.06	0.97	0.06	53.9	8.6	32	1.2
12489		1.73		<0.001	0.05	5.03	1	550	1.03	0.06	0.61	0.05	73.8	6.2	31	1.06
12490		2.41		<0.001	0.03	4.4	0.6	510	0.96	0.08	0.17	0.04	32.1	3.9	8	1.81
12491		2.05		<0.001	0.03	5.13	0.4	390	1.3	0.19	0.76	0.03	45.4	7.3	23	1.19
12492		2.04		<0.001	0.03	3.98	0.6	370	0.83	0.04	0.61	0.05	59.5	4.7	14	0.43
12493		2.10		<0.001	0.03	4.62	0.7	380	1.08	0.12	0.69	0.05	52.3	5.6	22	0.71
12494		2.10	96.0	<0.001	0.09	3.6	1	310	0.69	0.31	0.58	0.05	182.5	11.2	32	0.32
12495		2.02		<0.001	0.06	4.09	0.9	530	0.88	0.03	0.87	0.06	73.9	7.5	30	0.4
12496		1.62		<0.001	0.06	3.14	0.7	530	0.55	0.03	0.47	0.05	73.8	4.6	23	0.33
12497		1.83		<0.001	0.05	3.25	0.8	450	0.71	0.02	0.69	0.05	134	4.3	12	0.36
12498		1.84		0.001	0.05	3.45	1.2	400	0.6	0.05	0.46	0.05	53.7	5.6	32	0.58
12499		0.51		<0.001	0.09	6.09	1	520	1.46	0.08	1.09	0.08	90.3	17.5	55	1.66
12500		0.51		0.001	0.09	6.96	1.3	550	1.64	0.1	1.28	0.08	87.3	17.1	53	1.98
12601		2.57		<0.001	0.21	3.62	0.8	540	0.84	0.03	1.04	0.08	320	15.4	75	0.24
12602		3.24		0.001	0.43	3.33	1.7	370	0.7	0.04	0.95	0.12	478	21.6	132	0.21
12603		3.52		<0.001	0.46	3.25	1.2	350	0.64	0.03	0.81	0.1	429	19	122	0.24
12604		2.65		0.001	0.4	3.6	1.5	380	0.75	0.04	0.97	0.1	325	18.4	106	0.23
12605		1.84		<0.001	0.08	3.32	1.2	530	0.59	0.01	0.58	0.05	67.3	7.3	25	0.33
12606		2.55		0.001	0.18	6.03	1.4	430	0.51	0.02	0.79	0.15	>500	22.6	110	0.58
12607		2.44		0.002	0.15	5.48	1.1	550	0.59	0.01	0.7	0.13	>500	22.6	81	0.58
12608		2.84		0.001	0.25	5.34	1.2	370	0.41	0.02	0.72	0.14	>500	23.7	120	0.55
12609		2.55		0.001	0.12	5.01	1.1	440	1.71	0.03	0.64	0.1	480	17.4	77	0.63
12610		2.26		0.002	0.16	5.25	1	510	0.54	0.03	0.59	0.11	>500	16.7	83	0.61
12611		1.59		0.002	0.07	5.89	0.8	590	0.83	<0.01	0.83	0.14	353	16.3	60	0.64
12612		2.11		0.001	0.08	6.12	1	590	0.81	<0.01	1.06	0.14	136	19.7	76	0.51
12613		1.13		0.002	0.09	7.38	1.5	440	1.72	0.09	1.36	0.12	72.8	20.8	64	1.84
12614		1.96		0.001	0.06	5.83	0.8	730	0.6	<0.01	0.62	0.11	113	13.7	62	0.63
12615		2.21		0.001	0.06	5.54	0.8	620	0.66	<0.01	0.98	0.13	88.5	17.4	61	0.55
12616		1.79		0.002	0.04	5.48	0.9	810	0.88	<0.01	0.49	0.07	74.3	8.3	46	0.95
12617		1.89		0.001	0.04	4.93	0.9	780	0.6	<0.01	0.44	0.07	61.2	12.3	46	0.67
12618		1.59		0.001	0.07	5.78	0.9	660	0.62	<0.01	0.73	0.12	149.5	17.3	75	0.49
12619		1.59		0.001	0.04	4.53	0.9	730	0.68	<0.01	0.57	0.07	43.5	9.9	35	0.43
12620		2.26		0.001	0.1	6.04	1.5	590	0.76	0.05	0.56	0.12	306	18.7	78	0.78
12621		1.86		0.001	0.05	4.61	0.7	670	0.67	0.02	0.45	0.07	53.7	10.7	38	0.69
12622		1.71		0.001	0.05	2.8	0.9	470	0.68	0.02	0.25	0.04	148.5	4.2	20	1.01
12623		1.28		0.001	0.06	9.98	1	230	0.37	0.07	0.08	0.03	74.8	2.9	18	1.34
12624		1.94		0.001	0.04	2.77	1.1	380	0.62	0.02	0.31	0.04	63.7	3.4	26	0.71



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CERTIFICATE OF ANALYSIS AS08152924

Sample Description	Method Analyte Units LOR	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2
FLUSH A		4.2	1.07	6.69	<0.05	0.7	0.008	2.67	7	4.1	0.23	162	0.44	1.28	1.1	3.2
FLUSH B		8.2	1.34	10.8	0.06	1.2	0.013	2.77	10.5	7.1	0.24	191	0.85	1.29	2	7.1
FLUSH C		6.3	1.12	10.55	0.05	1.1	0.013	2.81	10.7	6.7	0.23	171	0.82	1.35	1.8	5.9
12488		7.4	2.98	9.82	0.06	1.1	0.049	2.22	25.8	7.4	0.74	508	0.14	0.53	5	10.6
12489		11.6	2.44	11.15	0.05	1.2	0.032	2.07	33.8	9.9	0.34	278	0.66	0.77	5.1	9.6
12490		4.9	1.12	9.06	<0.05	1	0.021	3.02	13.6	7.7	0.17	208	0.13	0.51	3.8	3.8
12491		9.1	2.06	11.35	<0.05	1.3	0.034	1.8	20.4	5.8	0.45	259	0.59	1.43	4.6	8.7
12492		5.7	1.63	8.19	0.05	1	0.023	1.49	26.5	3.4	0.23	228	0.13	1.19	4.9	4.7
12493		7.8	1.94	9.65	0.05	1.1	0.03	1.61	23.4	4.6	0.3	311	0.52	1.33	4.5	6.4
12494		10.9	4.43	9.69	0.16	1.5	0.043	1.18	78.5	2.9	0.28	613	0.61	1.07	12.9	7.1
12495		8.4	3.25	11.15	0.07	2.3	0.059	1.7	32.7	4.1	0.48	457	0.58	0.9	8.9	8.4
12496		7.7	2.55	8.56	0.06	2.2	0.041	1.69	33.8	2.6	0.18	306	0.74	0.59	8.1	4.3
12497		5.7	1.84	9.22	0.11	2.1	0.042	1.41	60.7	2.8	0.24	236	0.14	0.75	7.5	4
12498		11	3.08	9.26	0.06	1.9	0.042	1.41	23.3	4.6	0.18	322	0.7	0.48	6.3	7.8
12499		28.4	5.12	17.9	0.1	2.2	0.097	1.92	41.7	13	1.07	706	0.29	0.6	11.4	25.5
12500		31.2	4.47	19	0.11	2	0.085	2.06	41.7	14.4	1.11	632	0.86	0.77	10	25.1
12601		16.8	7.33	16.1	0.33	8.8	0.162	1.45	130	2.5	0.69	916	0.55	0.61	41.8	12.9
12602		20.1	11.9	23.9	0.5	8.7	0.27	1.11	190.5	2.4	0.74	1370	1.42	0.51	86.1	16
12603		17	12	24.8	0.46	4.8	0.281	1.01	183	2.2	0.58	1250	1.3	0.53	77.7	14.1
12604		19.1	10	18.9	0.32	7.4	0.224	1.11	136.5	2.5	0.64	1280	1.46	0.61	75.5	14
12605		10.2	2.9	9.8	0.08	2.5	0.06	1.57	28.8	2.8	0.33	390	0.45	0.55	9.3	7.6
12606		15.9	10.8	16.65	0.67	2.7	0.132	1.52	378	7.7	1.38	1590	0.91	0.18	29.3	11.3
12607		12.4	8.15	13.35	0.48	2.1	0.089	1.98	276	8	1.13	1210	0.21	0.29	16.1	11.3
12608		15.3	11.5	18.15	1.06	3.8	0.145	1.36	620	6.6	1.22	1540	0.57	0.16	43	10.6
12609		13.2	8.3	12.8	0.45	1.5	0.104	1.59	239	6.9	1.03	1100	0.16	0.21	22.9	9.1
12610		12.2	8.32	14.5	0.63	2.4	0.109	1.7	343	7.7	1.01	1100	0.48	0.29	30.7	8.4
12611		10.1	6.61	12.75	0.32	0.9	0.084	2.27	158	11.8	1.33	978	0.19	0.37	6.2	9.6
12612		14.6	7.68	13.25	0.17	1	0.091	1.95	62.4	9.9	1.51	1140	0.59	0.39	8.8	14.7
12613		37.4	5.31	18.65	0.11	1.4	0.072	1.66	34.6	19.8	1.3	677	0.38	0.36	7.7	32.8
12614		10.2	5.68	11.85	0.14	0.9	0.067	2.68	52.4	10.1	1.14	815	0.55	0.38	5.2	10.9
12615		12.4	6.6	11.4	0.13	0.7	0.075	2.24	41.4	8.8	1.35	951	0.1	0.38	6.4	12.1
12616		11.7	2.96	12.85	0.1	0.9	0.035	3.19	35.4	11.8	0.59	353	0.58	0.51	3.7	14.5
12617		8.8	3.5	10.1	0.1	0.7	0.042	3.09	28.2	8.8	0.73	622	0.19	0.44	2.9	13.3
12618		13.1	7.23	12.55	0.17	0.9	0.083	2.35	68	9.3	1.33	1020	0.96	0.34	8.2	11.6
12619		10.8	3.7	9.92	0.09	1.2	0.045	2.58	19.4	6.6	0.6	463	0.08	0.37	4.1	9.9
12620		11.2	7.66	13.95	0.38	1.7	0.102	2.07	124	11.6	1.23	1090	0.79	0.29	11.1	13.3
12621		7.3	4.03	9.88	0.14	0.8	0.052	2.44	26	8.8	0.7	555	0.21	0.35	4.5	10.6
12622		5.6	1.86	7.59	0.21	2.2	0.023	1.61	68.8	4.7	0.13	244	0.66	0.26	7.5	4.9
12623		2.3	2.13	32.3	0.11	1.1	0.061	0.13	39.8	13.9	0.07	28	0.46	0.03	19.3	4.2
12624		6.1	1.56	6.86	0.13	1.1	0.018	1.48	28.7	5.3	0.1	211	0.79	0.39	4.2	3.7



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005
FLUSH A		120	12.6	67.8	<0.002	<0.01	<0.05	2.2	<1	0.4	129.5	0.11	<0.05	2.8	0.058
FLUSH B		120	20.5	109	0.002	<0.01	0.12	3.8	<1	0.9	200	0.17	<0.05	4.3	0.06
FLUSH C		120	20.5	107.5	0.002	<0.01	0.06	3.5	<1	0.6	210	0.16	<0.05	4.2	0.059
12488		180	13.5	95.1	0.002	<0.01	0.2	12.3	1	2	57.2	0.35	<0.05	10.4	0.269
12489		230	15.3	85.7	0.002	0.01	0.09	8.9	1	1.3	70.8	0.36	<0.05	16.7	0.266
12490		140	23.9	145.5	<0.002	<0.01	0.06	3.8	1	1.3	44.5	0.31	<0.05	6	0.106
12491		140	14.8	80.5	0.002	<0.01	0.08	7.4	1	2.3	76.4	0.38	<0.05	10.5	0.216
12492		120	13.6	48.8	<0.002	<0.01	<0.05	5.2	1	1.1	64.5	0.35	<0.05	14.9	0.266
12493		130	13.6	61.8	<0.002	<0.01	0.07	7	1	1.5	71.8	0.33	<0.05	12.3	0.232
12494		180	15.7	38.5	0.002	<0.01	0.06	9.3	2	2.2	54.6	0.86	<0.05	53.6	0.736
12495		170	12.5	62.3	0.002	<0.01	0.06	10.3	1	1.8	60.2	0.54	<0.05	16.5	0.35
12496		110	13.6	54.6	0.002	<0.01	0.06	5.2	1	1.3	48.3	0.53	<0.05	23.9	0.34
12497		140	12.1	47.7	0.002	<0.01	<0.05	5.5	1	1.3	51.5	0.48	<0.05	27	0.244
12498		140	12.9	55.7	<0.002	<0.01	0.08	6.4	1	1.3	45.9	0.45	<0.05	16.5	0.32
12499		410	14.6	98.9	0.002	0.01	0.11	19.4	2	2.9	65.7	0.7	<0.05	16.6	0.46
12500		490	16.5	111.5	0.002	0.01	0.15	17	1	2.7	79.1	0.62	<0.05	15.2	0.37
12601		290	14.8	47.3	0.002	<0.01	<0.05	19	4	4.9	39.1	2.01	<0.05	75.3	1.46
12602		350	16.5	36.5	0.003	<0.01	<0.05	24.5	6	9.1	31.2	4.04	<0.05	125	2.69
12603		340	15.1	33.1	0.003	<0.01	<0.05	21	5	9.9	30.7	3.9	<0.05	122.5	2.43
12604		290	13.8	34.8	0.002	<0.01	0.07	21.4	5	7.5	34.8	3.76	<0.05	86.7	2.56
12605		150	8.9	52.3	0.002	<0.01	0.06	8	1	1.7	40.3	0.54	<0.05	13.9	0.374
12606		590	28.1	64.7	0.003	<0.01	0.1	50.4	4	3.4	47	1.64	<0.05	264	1.505
12607		510	28	82.4	0.003	<0.01	<0.05	28	3	1.5	72.5	1.07	<0.05	168	1.235
12608		870	39.7	55.4	0.004	<0.01	0.09	46.3	4	4.8	42.1	2.44	<0.05	439	2.35
12609		410	21.5	65.8	0.002	<0.01	<0.05	35.6	3	2.5	49.5	1.28	<0.05	148	1.2
12610		550	28.5	71.4	0.003	<0.01	0.08	27.3	3	3.3	62.2	1.64	<0.05	230	1.48
12611		440	25.3	111	0.002	<0.01	<0.05	27.4	2	0.6	95.3	0.39	<0.05	96.8	0.413
12612		330	17.4	81.7	0.002	<0.01	0.05	35.4	2	1.3	81.5	0.54	<0.05	32.2	0.558
12613		670	15.6	95	0.002	0.03	0.13	21.5	1	1.7	93.7	0.49	<0.05	12.6	0.441
12614		280	22.9	118.5	0.002	<0.01	<0.05	22.4	2	0.6	100.5	0.35	<0.05	27.1	0.298
12615		270	18.3	93.7	0.002	<0.01	<0.05	26.7	2	0.9	86.8	0.38	<0.05	19.4	0.457
12616		280	26.9	143.5	0.002	<0.01	0.06	10	1	0.6	127	0.25	<0.05	15.3	0.205
12617		260	27.2	128.5	0.002	<0.01	<0.05	13.7	1	0.4	117.5	0.21	<0.05	12.5	0.2
12618		290	20.6	98.5	0.002	<0.01	0.07	32.9	2	1.1	85.9	0.51	<0.05	38.1	0.494
12619		210	21.2	100.5	0.002	<0.01	<0.05	14	1	0.7	92.7	0.25	<0.05	6.8	0.279
12620		360	26.2	88.3	0.003	<0.01	0.08	35	3	1.4	83.2	0.89	<0.05	77.5	0.682
12621		210	24.2	99.7	0.003	<0.01	<0.05	17.8	1	0.7	92.5	0.37	<0.05	11.8	0.255
12622		180	20.9	67.9	0.003	<0.01	0.07	5.3	1	1.1	53.6	0.68	<0.05	32.7	0.398
12623		100	15.9	13.1	0.002	0.01	0.09	4.7	2	1.9	20	1.43	<0.05	23.3	0.405
12624		130	18.5	57.9	0.002	<0.01	0.08	4.1	1	0.9	52	0.38	<0.05	13	0.187



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
FLUSH A		0.4	17	0.9	3.5	11	19.4
FLUSH B		0.6	18	0.6	5.5	12	38
FLUSH C		0.6	18	1.4	5.4	12	30.4
12488		0.8	53	0.4	25.1	30	34.3
12489		0.8	51	1.3	19.8	24	38.4
12490		0.7	21	0.9	7	15	26.1
12491		1	54	1.3	11.6	18	40.5
12492		0.9	47	0.3	10.3	14	30.9
12493		1	47	1.1	17.3	18	32.6
12494		2.1	129	0.5	39	34	47
12495		1	67	1	33.6	38	69.8
12496		1.4	57	1.2	24.3	28	66.8
12497		1.5	41	0.2	29	19	64.7
12498		1.1	73	1.1	16.1	20	60
12499		1.1	105	0.8	37.8	74	67.8
12500		1.1	83	1.9	31.1	70	62.8
12601		4	246	1	89.8	86	264
12602		5.1	431	1.9	141.5	151	269
12603		3.6	439	1.5	122.5	137	145
12604		4	362	2.5	123	137	231
12605		0.9	75	0.4	25.5	32	77.3
12606		5.8	198	1.8	97.7	87	87
12607		5.3	187	0.7	74.8	79	66.4
12608		10	275	1.4	92.8	102	116.5
12609		4.4	156	0.5	62.9	67	47.8
12610		5.6	154	1.1	64	76	74.6
12611		3.4	71	1	64.4	66	31.3
12612		0.9	130	1.1	53.3	71	31
12613		0.7	114	0.7	31.5	83	44.4
12614		1.1	69	1.1	45.8	55	27.4
12615		0.8	113	0.3	46.9	63	22.6
12616		0.8	52	1.1	19	38	29.8
12617		0.8	53	0.4	29.1	35	21.3
12618		1.1	112	1.8	54	63	30.9
12619		0.4	71	0.3	22.1	33	36.1
12620		2.4	125	1.2	64.4	64	45.5
12621		0.5	63	0.3	30.1	36	21.6
12622		1.7	36	1.1	15.1	18	61.6
12623		0.5	39	0.4	5.3	10	34.4
12624		1	30	1.7	8.8	11	33



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CERTIFICATE OF ANALYSIS AS08152924

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt.	PUL-QC Pass75um %	Au-TL44 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm
		0.02	0.01	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
12625		2.52		0.001	0.06	5.22	1	690	0.89	0.03	0.86	0.11	475	11.2	41	0.97
12626		2.52		0.002	0.13	4.92	1.2	410	0.8	0.05	0.58	0.07	268	15.1	74	0.85
12627		1.61		0.001	0.08	5.61	1.8	710	0.83	0.01	0.44	0.08	147.5	21.4	91	0.83
12628		2.33		0.001	0.04	2.31	0.8	360	0.37	0.07	0.15	0.03	19.85	2.8	18	0.73
12629		1.55		0.001	0.06	4.1	0.9	550	0.72	0.05	0.73	0.06	106	14.2	43	0.59
12630		2.18		<0.001	0.07	4.11	0.9	560	0.76	0.04	0.54	0.05	166	10.7	40	1.18
12631		2.17		0.001	0.03	3.63	0.9	590	0.57	0.04	0.19	0.03	56.9	5.4	23	1.25
12632		2.20		0.001	0.06	3.41	0.5	520	0.49	0.02	0.55	0.04	132.5	7.7	40	0.69
12633		2.19		<0.001	0.05	3.12	0.6	560	0.38	0.02	0.29	0.04	59.7	5	29	0.67
12634		2.36	85.0	<0.001	0.04	2.73	0.9	510	0.35	0.03	0.14	0.03	63.7	5	33	0.92
12635		2.01		0.001	0.04	3.19	0.9	580	0.38	0.02	0.39	0.04	53.7	5.3	31	0.56
12636		2.18		<0.001	0.05	3.65	0.7	580	0.56	0.04	0.48	0.03	75.1	6.3	32	0.73
12637		2.36		0.001	0.15	3.32	0.8	450	0.38	0.04	0.47	0.04	188	12.5	79	0.59
12638		2.25		<0.001	0.07	3.5	0.4	570	0.42	0.03	0.43	0.03	147	7.6	46	0.62
12639		1.78		0.001	0.23	4.69	1.1	540	0.86	0.07	0.52	0.04	87.1	8.5	40	1.27
12640		2.16		0.001	0.06	2.67	0.9	370	0.62	0.05	0.2	0.02	82.8	6.9	27	0.91
12641		2.34		0.001	0.04	4.07	0.8	590	0.63	0.04	0.49	0.03	75.5	6.2	28	0.9
12642		2.09		0.001	0.1	4.12	1	490	0.7	0.06	0.63	0.03	220	10.8	54	0.96
12643		2.04		0.001	0.04	4.75	0.5	600	0.86	0.04	0.85	0.05	65.3	9.8	34	1.04
12644		2.19		0.001	0.04	3.52	0.7	600	0.42	0.02	0.33	0.03	49.1	5.8	29	0.79
12645		2.05		0.001	0.03	2.89	0.8	490	0.44	0.03	0.26	0.02	47.1	4	25	0.44
12646		2.00		0.001	0.07	2.89	1.4	350	0.57	0.13	0.24	0.03	75.2	13.8	36	0.6
12647		2.28		0.001	0.08	3.95	0.6	530	0.68	0.04	0.87	0.04	94.9	12.4	52	0.57
12701		2.55		<0.001	0.04	4.94	0.5	630	0.76	0.09	1.56	0.05	148.5	11	49	1.5
12702		2.46		0.001	0.02	2.71	0.8	550	0.36	0.04	0.73	0.02	32.6	3.4	22	1
12703		3.96		0.001	0.14	4.21	1.2	510	0.64	0.03	0.68	0.08	265	29	97	0.39
12704		3.51		0.001	0.08	5.07	1.2	540	0.69	0.02	1.06	0.08	86.4	20.1	68	0.52
12705		3.18		<0.001	0.06	3.66	1.1	750	0.63	0.01	0.54	0.05	99.4	12.5	50	0.37
12706		3.30		0.001	0.1	4.85	1.3	640	0.53	0.01	0.53	0.05	93.4	12.5	58	0.54
12707		2.43		0.001	0.08	5.03	0.8	690	0.56	<0.01	0.67	0.07	188	15.7	56	0.39
12708		3.02		0.001	0.08	3.75	1	510	0.38	0.04	0.9	0.04	136.5	13.4	64	0.45
12709		3.68		<0.001	0.05	3.01	1	490	0.33	0.04	0.26	0.02	65.3	7.2	40	0.47
12710		4.87		0.001	0.2	4.83	1.9	330	0.33	0.05	0.59	0.08	>500	24.9	144	0.35
12711		2.46		<0.001	0.09	3.63	0.6	480	0.55	0.06	0.69	0.04	119	9.9	42	0.36
12712		3.28		<0.001	0.02	2.96	0.4	570	0.38	0.03	0.34	<0.02	42.6	3.6	22	0.48
12713		2.23		0.002	0.41	7.93	0.6	3200	2.46	0.21	2.12	0.16	205	75.1	121	1.7
12714		1.64		0.001	0.56	7.57	0.5	3480	1.63	0.04	1.36	0.15	239	54	110	1.69
12715		2.50		0.004	0.99	7.35	1.3	4370	2.15	0.02	0.15	0.06	323	60.5	100	2.38
12716		3.24		0.001	0.15	5.61	1	840	1.12	0.04	0.95	0.08	142.5	18.8	60	0.8
12717		2.57		0.001	0.09	5.24	1.3	790	0.87	0.03	1.03	0.08	95.8	24.3	75	0.45



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CERTIFICATE OF ANALYSIS AS08152924

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
12625		9.1	5.12	14.05	0.57	2.1	0.056	2.21	236	7.5	0.58	1070	0.87	0.51	8	9.2
12626		12	6.06	12.95	0.38	2.1	0.085	1.54	126	9.3	0.79	734	0.14	0.32	24	15.4
12627		17	6.99	14.55	0.26	1.1	0.092	2.3	64.4	10.6	1.11	967	0.82	0.31	10.1	22.9
12628		4.7	2.05	5.86	0.11	0.7	0.047	1.36	9.9	2.8	0.1	156	0.11	0.22	6.1	3.2
12629		10.8	4.6	11.8	0.21	2.2	0.071	1.85	48.2	4.6	0.64	799	0.77	0.57	10.6	12.4
12630		9.9	4.06	12.15	0.29	2	0.061	2.03	75.8	5	0.45	553	0.5	0.49	14.1	13.9
12631		8.5	1.62	8.06	0.13	1.4	0.02	2.57	23.4	4.2	0.21	239	0.6	0.34	3.7	7.7
12632		6.7	3.44	10.35	0.25	1.6	0.055	1.89	62.9	3.7	0.35	424	0.1	0.36	10.4	10.3
12633		6.9	2.21	7.75	0.16	1.6	0.033	1.98	28.7	3.4	0.19	274	0.54	0.33	6.4	6
12634		7	2.22	6.54	0.15	1	0.028	1.75	28.4	4	0.13	274	0.13	0.18	6.2	4.4
12635		6.3	2.44	7.9	0.15	1.9	0.037	2.02	26.2	2.9	0.24	317	0.6	0.39	7	5.4
12636		6.8	2.94	9.37	0.18	1.8	0.047	1.98	34.4	3.4	0.29	361	0.1	0.44	9.5	6.8
12637		8.5	7	12.95	0.34	2.4	0.103	1.67	86	3.4	0.38	823	0.5	0.26	27.2	13.1
12638		6.5	3.81	10.25	0.28	2.1	0.057	2.01	65.2	3	0.28	463	0.24	0.4	12.3	10.3
12639		14.6	3.04	12.15	0.19	2.1	0.051	1.97	42.4	6.9	0.34	380	0.79	0.46	8.7	13.9
12640		9.4	2.29	7.42	0.17	1.9	0.029	1.32	37.4	4.4	0.21	298	0.19	0.2	7.1	9.3
12641		8.7	2.38	9.92	0.18	1.7	0.038	2.09	35.5	4.8	0.26	299	0.42	0.49	6.6	8.5
12642		10.1	4.73	13.45	0.38	3.2	0.074	1.74	99.3	5.5	0.4	578	0.19	0.42	18.4	13.6
12643		14.4	3.07	12.25	0.18	2.1	0.057	2.22	32	6.1	0.69	421	0.56	0.59	6.3	14.7
12644		6.5	2.49	9.01	0.16	1.6	0.04	2.21	25.1	3.8	0.24	313	0.06	0.39	6.7	6.9
12645		6.7	2.09	7.33	0.14	1.6	0.03	1.76	22.9	2.7	0.15	214	0.54	0.34	4.9	4.5
12646		11.3	4.65	10.5	0.18	1.9	0.055	1.16	31.4	3.4	0.16	456	0.36	0.23	10.9	7.1
12647		10.9	5.1	12.75	0.22	2.6	0.079	1.9	44.1	4.3	0.72	623	0.49	0.52	11.5	15.4
12701		5.8	4.44	12.25	0.27	1.6	0.064	2.24	73.6	5.8	0.97	715	0.07	0.65	6.7	13.5
12702		4.9	1.63	5.77	0.13	0.7	0.02	1.88	16.9	3.6	0.16	229	0.32	0.22	2.9	3.7
12703		19.4	8.2	13.25	0.37	2.1	0.072	1.15	131	4.6	0.64	1750	0.53	0.24	25.6	17.1
12704		18.1	7.18	13	0.2	1.1	0.065	1.6	39.4	5.3	0.8	1070	0.85	0.39	15.7	17
12705		18.3	4.8	9.86	0.23	0.7	0.049	1.62	49	4.3	0.42	734	0.25	0.27	11.7	13.5
12706		9.5	5.87	10.25	0.2	0.9	0.057	2.01	42.6	6.1	0.75	852	0.34	0.3	8.2	8
12707		12.7	5.84	11.4	0.3	0.8	0.06	2	83.9	6	0.85	897	0.14	0.32	10.4	13.1
12708		10.5	5.13	9.56	0.17	1.1	0.049	1.33	67.1	4.8	0.56	758	0.44	0.18	12.2	8
12709		6.9	3.55	7.03	<0.05	0.7	0.038	1.53	32.4	3.7	0.32	432	0.16	0.18	7.4	4.5
12710		14.3	12.6	16.6	0.83	2.5	0.125	1.04	290	4.7	1.08	1430	1.17	0.16	47.2	12
12711		6.6	4.73	10.75	0.15	1.9	0.068	1.67	58.3	3.3	0.63	606	0.14	0.52	15.3	8.4
12712		5.7	1.61	6.7	<0.05	1.3	0.021	1.99	22	2.8	0.19	200	0.35	0.36	3.7	4.2
12713		130.5	7.9	22.1	0.36	0.7	0.091	4.14	113.5	11.1	2.54	1365	16.05	0.27	95.9	81.6
12714		51.3	6.99	16.5	0.37	0.7	0.078	4.97	127	7.4	2.31	1540	2.92	0.39	84.8	56.2
12715		70.3	7.97	20.2	0.62	0.4	0.083	5.63	187.5	11.3	3.6	308	0.09	0.29	180	74.2
12716		21.1	5.16	14.45	0.24	0.9	0.055	2.17	68.4	8.8	0.95	793	0.32	0.54	19.6	24.5
12717		17.9	5.91	12.75	0.17	0.9	0.055	2.05	45.7	6.7	1.08	1235	0.95	0.43	12.9	20.3



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005
12625		390	31.3	89.9	0.003	<0.01	0.09	25.5	3	1.1	85.1	0.69	<0.05	130	0.484
12626		300	21.3	68.9	0.003	<0.01	0.07	22.7	3	2.1	65.8	1.4	<0.05	65.2	1.07
12627		320	28.2	106.5	0.004	<0.01	0.07	27.9	2	1.7	97.2	0.73	<0.05	29.6	0.565
12628		90	15	53.9	0.002	<0.01	0.07	5.5	1	1	34.5	0.45	<0.05	8.3	0.205
12629		240	17.6	70.2	0.003	<0.01	0.08	16	2	2.1	55.9	0.81	<0.05	24.4	0.469
12630		220	20.5	88.7	0.003	<0.01	0.05	12.4	2	2.3	58	1.09	<0.05	34.1	0.659
12631		150	20.7	102	0.003	<0.01	0.08	4.7	1	0.9	51.8	0.32	<0.05	11.3	0.137
12632		170	16.1	66.5	0.003	<0.01	0.05	10.5	2	1.7	47.7	0.79	<0.05	42.5	0.456
12633		130	15.7	70	0.002	<0.01	0.09	5.9	1	1.3	45.7	0.48	<0.05	13.6	0.293
12634		140	16.8	67.5	0.002	<0.01	0.1	6.1	1	1.5	49.9	0.47	<0.05	13.7	0.323
12635		140	15.2	67.6	0.003	<0.01	0.08	6.9	1	1.4	47.1	0.54	<0.05	12	0.306
12636		170	16.7	70.3	0.002	<0.01	0.06	9	2	1.6	50.4	0.74	<0.05	19.1	0.454
12637		210	15.3	55.6	0.003	<0.01	0.09	16.6	3	4.1	37.7	1.99	<0.05	46.9	1.35
12638		220	16.8	65.8	0.002	<0.01	0.05	9.7	2	2.1	46.9	0.91	<0.05	33.2	0.616
12639		240	16.8	78.4	0.003	<0.01	0.14	10.3	2	1.9	59.9	0.66	<0.05	18.9	0.394
12640		160	12.4	51.5	0.002	<0.01	0.08	6.2	1	1.1	30.5	0.56	<0.05	17.5	0.386
12641		180	16.8	75.8	0.002	<0.01	0.08	7.5	1	1.5	57.4	0.51	<0.05	18.5	0.308
12642		240	18	68.7	0.003	<0.01	0.09	13.4	3	2.9	54.5	1.42	<0.05	49	0.844
12643		310	16.7	86.4	0.003	<0.01	0.1	11.8	2	1.7	63.5	0.46	<0.05	12	0.26
12644		160	15.4	73.2	0.002	<0.01	0.05	7.2	1	1.4	49.9	0.46	<0.05	10.4	0.315
12645		120	13.3	56.3	0.002	<0.01	0.07	5.2	1	1.1	38.8	0.36	<0.05	12.1	0.23
12646		160	12.6	43.2	0.002	0.01	0.08	9.8	2	1.9	29.8	0.83	<0.05	18.1	0.567
12647		240	14	67.2	0.003	<0.01	0.07	16	2	2.3	51.1	0.85	<0.05	19.6	0.554
12701		240	15.8	81.6	0.002	<0.01	0.3	16.9	2	2.2	65.9	0.59	<0.05	27.7	0.377
12702		120	13.3	68	0.002	<0.01	0.16	4.5	1	1	49.4	0.23	<0.05	7.3	0.151
12703		310	18.7	40.4	0.003	0.01	0.07	25.2	3	1.9	56.8	1.6	<0.05	61.6	1.125
12704		220	15.7	57	0.003	<0.01	0.09	24.9	2	1.2	82.6	0.74	<0.05	18	0.907
12705		360	18.8	50.9	0.003	0.02	0.05	20.1	2	0.8	102	0.54	<0.05	20.7	0.403
12706		220	18.3	67.1	0.002	<0.01	0.07	22.3	2	1.1	76.4	0.53	<0.05	23.9	0.527
12707		320	20.2	64.8	0.003	0.01	<0.05	22	2	0.9	80.3	0.57	<0.05	38.6	0.432
12708		160	15.9	53	0.002	0.01	0.07	15.5	3	1.8	65	0.63	<0.05	39.3	0.786
12709		140	14.6	60.5	0.002	<0.01	0.07	11.4	2	1.2	50.3	0.43	<0.05	20.3	0.441
12710		430	26.3	41.9	0.003	<0.01	0.21	32.5	6	5.7	42.3	2.38	<0.05	195.5	2.6
12711		200	17.9	68.8	0.002	<0.01	<0.05	15.7	3	2.6	46.3	0.87	<0.05	37.3	0.625
12712		120	15.6	76.5	<0.002	<0.01	0.05	4.8	1	0.9	47	0.22	<0.05	9.5	0.152
12713		1330	70.5	240	0.004	0.02	0.08	34.5	2	2.5	510	4.33	0.05	17.7	0.544
12714		4230	9.8	232	0.004	0.01	0.07	46.6	2	1.9	474	6.32	<0.05	11.9	0.326
12715		640	6.4	299	0.006	0.02	<0.05	34.6	3	2.4	248	13.25	0.08	2.7	0.53
12716		380	21.7	94.3	0.002	<0.01	0.07	21.1	2	1.4	145	0.9	<0.05	42.3	0.456
12717		410	18.1	77.6	0.002	<0.01	0.08	25.5	2	1.1	128	0.61	<0.05	19.2	0.37



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
12625		4	70	1.6	61.4	36	57.1
12626		3.5	127	0.7	39.2	55	57.9
12627		1.7	125	1.8	46.7	61	31.2
12628		0.4	40	0.3	10.2	11	20.1
12629		1.4	94	1.4	44.5	49	59
12630		1.8	94	0.5	32.2	75	53.4
12631		1	34	1.1	9.8	19	37.3
12632		1.2	81	0.3	30.4	36	42.9
12633		0.7	46	1.2	16.5	24	44.1
12634		0.6	48	0.6	11.2	19	26.5
12635		0.7	49	1.3	19.8	27	46.9
12636		0.7	67	0.4	23.3	27	49.7
12637		1.5	167	1.1	47.2	71	67.2
12638		1.3	95	0.4	31.5	40	57.1
12639		1.1	65	1.4	24.1	38	58.5
12640		1	53	0.5	15.8	25	51.7
12641		0.9	53	0.9	19.4	27	48.1
12642		1.9	123	0.6	41.8	48	86
12643		0.8	57	1.3	25.3	45	58
12644		0.6	58	0.4	17.4	27	42.6
12645		0.7	45	1.1	13.9	19	42.3
12646		0.9	110	0.7	18.5	24	51.9
12647		1	118	1.1	39.6	56	72.1
12701		1.1	82	0.5	37.8	42	37.4
12702		0.5	31	0.8	11.9	11	19.5
12703		1.7	223	0.7	40.1	61	52.6
12704		0.7	207	1.5	38	57	28.7
12705		0.6	124	0.5	20.3	36	17.7
12706		0.7	108	0.8	40.2	43	24.3
12707		0.9	117	0.4	36.9	43	20.6
12708		1.1	138	1	29.8	44	35
12709		0.6	78	0.4	20.1	26	20.4
12710		4.1	408	2.4	76.6	108	76.1
12711		1.2	98	0.5	44.4	47	55.6
12712		0.6	29	0.9	14.3	18	42.9
12713		1.8	171	1.1	34.5	200	20.7
12714		1.1	146	22.4	28.4	170	18.1
12715		1.4	204	0.4	42	200	10.2
12716		0.9	116	0.7	36.1	60	25.4
12717		0.7	113	2	40.6	54	26.4



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	PUL-QC Pass75um %	Au-TL44 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm
		0.02	0.01	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
12718		3.23		<0.001	0.07	2.94	1.5	410	0.48	0.05	0.23	0.03	169	9.1	65	0.4
12719		3.27		<0.001	0.05	2.65	1.4	540	0.42	0.03	0.16	0.04	252	9.7	31	0.43
12720		3.45		0.001	0.04	2.95	1.2	500	0.43	0.05	0.28	0.03	126	5	41	0.62
12721		3.51		0.001	0.06	4.72	0.9	550	0.93	0.08	0.93	0.04	76.2	10.1	48	0.91
12722		2.72		0.002	0.04	3	0.9	540	0.46	0.03	0.38	0.02	104	6.8	37	0.5
12723		3.42		<0.001	0.03	3.17	0.8	490	0.52	0.05	0.35	0.03	36.2	5.4	22	0.57
12724		3.29		<0.001	0.03	4.17	0.3	560	0.81	0.05	0.82	0.03	97.3	7.1	28	0.54
12725		2.86		<0.001	0.03	3.5	0.7	580	0.53	0.04	0.5	0.03	46.5	5.7	23	0.43
12726		1.29		0.001	0.08	7.97	3.7	320	1.74	0.22	0.19	0.03	114	12.4	68	3.59
12727		2.11	88.0	0.001	0.05	6.75	3.1	400	1.58	0.2	0.28	0.03	107.5	11.3	58	3.27
12728		3.45		0.001	0.03	4.16	1.3	620	0.65	0.04	0.17	<0.02	175	6.6	42	0.94
12729		3.66		<0.001	0.03	2.28	1.5	160	0.46	0.06	0.13	0.02	24.9	3.6	41	0.46
12730		3.44		0.002	0.04	2.05	1.7	140	0.38	0.06	0.09	0.02	32.2	2.5	55	0.29
12731		2.44		0.001	0.05	3.27	2	270	0.64	0.1	0.09	0.02	61.4	4.8	54	1.05
12732		3.44		0.001	0.06	2.11	1.3	180	0.38	0.07	0.05	0.02	46.2	3.7	51	0.39
12733		3.09		0.001	0.06	3.86	1.5	240	1	0.07	0.2	<0.02	129	6.5	34	1.59
12734		2.39		0.001	0.03	3.6	0.6	580	0.89	0.03	0.47	<0.02	88.9	4.9	23	0.99
12735		2.15		<0.001	0.02	2.57	0.6	550	0.53	0.02	0.19	<0.02	42.9	2.6	10	0.82
12736		1.81		<0.001	0.02	4.2	0.8	580	1.01	0.02	0.54	0.02	72.3	3.6	25	1.28
12737		2.16		0.001	0.05	5.57	0.6	630	1.87	0.04	1.4	0.03	117	6.6	19	1.89
12738		2.50		<0.001	0.03	3.67	0.8	330	0.89	0.05	0.86	0.02	51.9	4.8	31	1.04
12739		2.81		0.001	0.03	2.43	1.6	360	0.7	0.04	0.15	<0.02	46.2	5	36	0.54
12740		2.22		0.001	0.02	4.38	1	780	0.79	0.03	0.56	0.04	112.5	7.3	33	0.9
12741		2.31		0.001	0.04	4.91	1	720	0.52	0.01	0.51	0.04	105.5	9.9	43	0.51
12742		0.91		0.001	0.07	6.41	2	500	1.26	0.1	0.56	0.05	258	13.5	65	1.85
12743		1.27		0.001	0.02	3.94	0.4	700	0.45	0.02	0.33	0.04	61.2	6.7	28	1.03
12744		2.77		<0.001	0.02	3.13	0.7	570	0.5	0.02	0.2	0.03	35.2	3.1	32	0.64
12745		2.26		0.001	0.02	4.6	<0.2	690	0.78	0.03	0.88	0.03	59.8	6.1	35	0.71
12746		2.54		<0.001	0.02	3.12	0.8	640	0.41	0.03	0.6	0.04	359	6.9	73	0.57
12747		2.00		<0.001	0.02	3.91	0.7	670	0.8	0.05	0.62	0.04	161.5	8.6	61	1.12
12748		2.13		0.001	0.06	7.34	<0.2	400	1.69	0.03	3.33	0.07	114.5	26.4	103	0.61
12749		2.12		0.001	0.07	6.03	0.4	470	0.84	0.02	1.71	0.1	312	21.7	106	0.75
12750		2.10		<0.001	0.07	4.56	0.3	680	0.73	0.02	1.01	0.06	89	11.9	55	0.68
12751		2.80		<0.001	0.04	3.87	0.4	710	0.4	0.02	0.44	0.05	88.2	7.5	30	0.53



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
12718		10.7	4.3	9.73	0.2	1.5	0.043	1.1	81.1	5.6	0.18	577	0.53	0.16	17.5	8.6
12719		13.8	2.91	9.01	0.28	1.4	0.031	1.2	122	4.1	0.13	646	0.42	0.15	11	8.6
12720		8.5	2.72	8.07	0.18	1.8	0.033	1.72	62.9	4.1	0.16	295	0.98	0.28	10.1	6.1
12721		9.5	4	12.7	0.16	2	0.062	2.02	39	5.9	0.57	573	0.16	0.65	10.3	12.4
12722		6.3	3.13	8.94	0.16	1.6	0.042	1.91	49.1	3.1	0.26	405	0.5	0.33	9	8.6
12723		5.3	2.42	8.04	0.07	1.4	0.046	1.69	19	4.2	0.28	322	0.14	0.39	6.1	4.8
12724		5.9	2.89	10.9	0.2	1.6	0.049	2.01	48.3	4.1	0.5	402	0.13	0.75	6.3	7.2
12725		6.6	2.61	8.42	0.11	1.5	0.033	1.98	23.8	3.9	0.37	338	0.37	0.49	5	6.1
12726		25.1	4.79	21.8	0.25	2.5	0.067	1.28	56.3	21.6	0.28	434	0.89	0.15	10.5	24.8
12727		19.8	4.27	17.75	0.18	2.3	0.058	1.64	53.7	20.4	0.34	470	0.59	0.18	9.1	20.8
12728		10	2.64	10.15	0.26	2.3	0.023	2.83	79.2	5.1	0.22	339	1.56	0.28	8.5	8
12729		9.2	3.49	7.02	<0.05	1	0.023	0.56	10.7	3.7	0.08	210	0.56	0.16	3.4	5
12730		7.2	3.89	6.27	<0.05	1	0.021	0.44	14.6	3.1	0.06	155	0.96	0.26	3.6	9.9
12731		10.6	3.01	9.35	0.06	1.2	0.028	1.04	29.6	7.6	0.11	214	0.57	0.13	5.2	7.3
12732		9.9	3.35	7.43	<0.05	1.3	0.027	0.66	19.4	4.4	0.05	201	0.77	0.08	4	5.1
12733		13.5	2.83	10.45	0.1	1.9	0.031	0.92	45.4	9	0.2	353	0.41	0.14	6.7	9.3
12734		6.7	1.82	9.26	0.15	1.6	0.021	1.94	42.6	5.4	0.18	254	0.66	0.45	6.4	4.9
12735		4.9	1.27	5.85	0.07	0.8	0.012	1.82	19.7	3.3	0.07	134	0.42	0.22	3.2	2.1
12736		7.1	1.68	9.93	0.12	1.1	0.019	2.57	34.2	5.2	0.11	243	1.35	0.59	4.4	4.7
12737		8.3	2.34	14.1	0.22	2.2	0.03	2.05	54.8	8.9	0.29	354	0.47	1	10.1	6.8
12738		8.5	1.69	9.6	0.08	1.6	0.023	1.25	25.4	7.1	0.24	240	1.05	0.45	5.9	7.8
12739		12	2.87	7.37	<0.05	0.7	0.026	1.11	20.2	4.9	0.07	297	0.54	0.17	2.9	6.9
12740		8.3	2.85	10.5	0.16	1.2	0.027	2.71	58.3	5.6	0.3	518	0.85	0.5	4.5	7.5
12741		7.1	4.9	10.6	0.2	0.9	0.052	3.14	53.5	5.5	0.57	765	0.43	0.44	5.8	6.3
12742		19.9	4.6	16.45	0.37	1.9	0.055	1.82	130	11.9	0.52	673	1.06	0.36	11.1	18
12743		7.2	3.1	8.94	0.23	0.8	0.033	2.63	31.1	5.2	0.31	449	0.52	0.36	3.3	6.8
12744		11.3	1.53	6.84	0.18	0.7	0.014	2.16	17.4	4.5	0.09	184	1.23	0.36	2.6	5.3
12745		7.4	2.18	10.15	0.22	1	0.02	2.59	30.6	5.1	0.31	373	0.45	0.64	3.3	12.8
12746		9.8	3.31	9.24	0.48	1.4	0.022	1.98	181.5	4.3	0.24	502	1.32	0.33	5.7	17.5
12747		11.2	2.52	9.86	0.31	1.4	0.024	1.85	87	7.6	0.44	397	0.49	0.38	4.7	25.2
12748		19.4	5.32	18.55	0.36	1.3	0.066	1.68	54.7	13.5	1.48	868	1.06	1.18	8.8	58.7
12749		12.7	7.82	17.85	0.51	2.2	0.089	2.39	150.5	8.2	1.48	1220	0.6	0.68	12.2	33.9
12750		10.4	3.81	11.4	0.27	1	0.038	2.65	44.5	6.5	0.51	683	1.21	0.57	4.4	15
12751		8.3	3.02	8.95	0.25	0.8	0.028	2.48	43.2	5	0.26	666	0.67	0.38	4.1	6.2



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005
12718		220	15.9	45.2	<0.002	0.01	0.08	10.5	2	1.5	45.1	0.84	<0.05	43.1	0.806
12719		240	19.9	53.7	<0.002	0.01	0.06	8	2	0.8	49.2	0.58	<0.05	58.9	0.514
12720		170	17.5	73.9	<0.002	<0.01	0.11	6.7	2	1.8	53.5	0.61	<0.05	35.1	0.482
12721		260	16.5	85.4	<0.002	<0.01	0.08	17	2	2.2	65.2	0.68	<0.05	16.7	0.501
12722		160	16.4	77.1	<0.002	<0.01	0.07	8.3	2	1.8	46	0.56	<0.05	27.9	0.396
12723		160	15	75.4	<0.002	<0.01	<0.05	9.4	2	1.5	48	0.39	<0.05	6.8	0.267
12724		190	17.9	83.6	<0.002	<0.01	<0.05	11.4	2	1.6	65	0.41	<0.05	25.8	0.288
12725		160	16.7	80.3	<0.002	<0.01	0.08	8.7	2	1.2	55.5	0.29	<0.05	9.6	0.198
12726		370	21.4	105	<0.002	0.01	0.27	18	2	2.6	67.5	0.75	0.05	29.2	0.481
12727		260	20	102.5	<0.002	0.01	0.27	14.5	2	2.7	63.6	0.68	<0.05	27.2	0.459
12728		210	28.8	132.5	<0.002	<0.01	0.13	5.9	2	1.6	50.7	0.55	<0.05	39.1	0.382
12729		100	10.2	28.1	<0.002	<0.01	0.11	4.9	1	1.1	23.3	0.24	<0.05	7.5	0.167
12730		110	9.8	20.2	<0.002	0.01	0.1	3.6	1	0.9	20.7	0.25	<0.05	8.9	0.16
12731		180	15.4	57.5	<0.002	0.01	0.14	6	1	1.5	38.4	0.37	<0.05	18.2	0.233
12732		120	14.5	35.5	<0.002	<0.01	0.09	4.9	1	0.8	24.4	0.27	<0.05	12.4	0.194
12733		160	20.5	66.2	<0.002	<0.01	0.11	10.1	2	1.1	39.9	0.47	<0.05	21.1	0.34
12734		200	22.8	90.7	<0.002	<0.01	0.07	5.4	2	1	77.4	0.43	<0.05	18.4	0.227
12735		120	20.5	79.5	<0.002	<0.01	0.07	2.8	1	0.5	53.6	0.22	<0.05	6.1	0.092
12736		180	30.6	121	<0.002	<0.01	0.13	4.5	1	1	80.8	0.31	<0.05	13.8	0.124
12737		410	22.7	109	0.002	<0.01	0.09	7.2	2	1.5	123.5	0.74	<0.05	22.1	0.317
12738		150	16.5	68.2	<0.002	<0.01	0.11	5.6	1	1.3	62	0.41	<0.05	10	0.197
12739		150	20.2	48.1	<0.002	<0.01	0.41	9.2	1	0.7	37.5	0.19	<0.05	8.4	0.132
12740		200	30.8	114.5	0.002	<0.01	0.07	11.3	2	0.8	90.5	0.31	<0.05	26.6	0.201
12741		220	29.3	115.5	0.002	<0.01	0.07	20.1	2	0.8	92.2	0.38	<0.05	32.3	0.367
12742		550	29	100.5	0.002	0.01	0.14	17.9	3	1.8	78.8	0.75	<0.05	77.5	0.583
12743		180	24.2	123	0.002	<0.01	0.08	12.3	2	0.8	83.9	0.24	<0.05	17.6	0.163
12744		120	19.2	88.6	<0.002	<0.01	0.1	3.8	1	0.9	63.7	0.19	<0.05	7.6	0.097
12745		180	23	113	<0.002	<0.01	0.08	8.4	1	0.9	104	0.24	<0.05	15.4	0.193
12746		260	25.3	81.7	0.002	<0.01	0.11	8.4	2	1.2	67.2	0.43	<0.05	122	0.409
12747		180	17.5	86.2	<0.002	<0.01	0.12	8.4	1	1.3	73	0.34	<0.05	50	0.267
12748		360	15.7	86.8	<0.002	<0.01	0.08	27.6	2	3.1	156.5	0.59	<0.05	29.2	0.455
12749		490	28.2	135.5	0.002	<0.01	0.08	34.5	3	2.6	100	0.83	<0.05	99.3	0.575
12750		200	25.3	126	<0.002	<0.01	0.08	14.5	2	1.2	100	0.3	<0.05	25.5	0.259
12751		160	23.9	112.5	<0.002	<0.01	0.09	11	1	0.7	84.9	0.27	<0.05	26	0.199



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CERTIFICATE OF ANALYSIS AS08152924

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
12718		1.4	101	2.5	22.2	35	48.4
12719		1.9	66	0.7	17	25	46.8
12720		1.4	53	2.1	19.9	28	59.7
12721		1	84	0.6	36.2	48	62.2
12722		1.1	64	1.2	27.5	31	48.5
12723		0.6	41	0.3	23.7	28	44.9
12724		1.1	56	0.5	29.8	31	49.8
12725		0.7	41	0.3	23.2	28	48.5
12726		2.1	105	1.6	24.6	57	82.6
12727		1.6	93	1.1	21.8	51	76.2
12728		1.8	46	2.9	20.3	27	78.7
12729		0.6	74	0.4	5.7	12	30.5
12730		0.7	94	1.2	4.8	9	31.7
12731		1.2	68	0.5	7.7	18	37.3
12732		0.8	82	1.5	5.6	14	40.7
12733		1.6	59	0.7	14	30	61.2
12734		1.1	30	1.3	13.2	21	54.3
12735		0.5	16	0.2	7.1	11	26.1
12736		1	20	2.6	11.4	14	36.5
12737		1.5	38	0.4	18.9	30	78.9
12738		1.1	32	2.2	9.6	19	52.5
12739		0.6	62	0.4	6.5	15	23.7
12740		1.1	46	1.7	20.7	24	38.4
12741		1	81	0.4	38.9	39	25.5
12742		2.7	93	2.1	30	55	63.2
12743		0.7	44	0.3	22.4	20	22.3
12744		0.6	24	2.5	6.5	11	20.1
12745		0.7	40	0.4	13	19	32
12746		2.6	64	2.9	22.8	20	46.2
12747		1.2	51	0.7	18.4	26	48.1
12748		1	144	2.4	30	59	37
12749		3.5	152	0.8	66.2	74	67.9
12750		0.9	85	2.5	23.7	32	29.3
12751		0.8	46	0.4	21.6	21	27.9



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CERTIFICATE OF ANALYSIS AS08152924

Method	CERTIFICATE COMMENTS
ME-MS61	REE's may not be totally soluble in this method.