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Page: 1
Finalized Date: 24-DEC-2008
Account: NUPRES

CERTIFICATE PH08172424

Project: STRANG WAYS

P.O. No.:

This report is for 114 Stream Sediment samples submitted to our lab in Alice Springs, NT, Australia on 9-DEC-2008.

The following have access to data associated with this certificate:

WARRICK RAFFERTY

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

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
LOG-24	Pulp Login - Rcd w/o Barcode
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61r	48 element four acid ICP-MS + REEs

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 PH08172424

Sample Description	Method Analyte Units LOR	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05
FLUSH A		0.04	5.16	<0.2	870	1.07	0.03	0.94	0.03	23.4	3.6	21	1.06	7	1.13	11.5
FLUSH B		0.04	4.91	<0.2	830	1.07	0.03	0.9	0.03	23.5	3.7	15	1.03	7.9	1.33	11.15
FLUSH C		0.02	4.97	<0.2	860	1.1	0.03	0.91	0.03	24.4	3.4	21	1.08	6.5	1.1	11.45
12488		0.04	4.06	<0.2	670	0.72	0.16	1	0.05	51	9.5	32	1.33	7.4	3.02	10.95
12489		0.04	4.77	0.5	540	0.99	0.08	0.62	0.04	76.7	6.6	31	1.07	11.4	2.48	11.8
12490		0.03	4.27	0.4	520	0.8	0.12	0.17	0.03	22.3	4.3	11	1.86	4.9	1.13	9.53
12491		0.04	5.14	0.3	400	1.37	0.24	0.81	0.03	47.9	9.3	25	1.3	9.9	2.25	13
12492		0.04	4.08	<0.2	350	0.93	0.07	0.68	0.03	65.1	5.5	16	0.47	6.2	1.98	9.62
12493		0.03	4.42	0.2	370	1.1	0.16	0.71	0.03	51.9	5.9	23	0.71	8.1	1.99	10.4
12494		0.09	3.72	0.3	320	0.79	0.37	0.62	0.03	185	12.7	36	0.34	12.2	4.7	11.2
12495		0.06	4.24	0.2	550	0.95	0.06	0.92	0.04	76.7	8.1	33	0.41	9	3.42	11.95
12496		0.06	3.28	0.4	550	0.65	0.06	0.52	0.04	82.6	5.1	27	0.38	8.6	2.69	9.88
12497		0.04	3.83	0.4	530	0.91	0.05	0.89	0.04	68.8	6	20	0.42	6.8	2.32	11.45
12498		0.05	3.61	0.8	420	0.58	0.06	0.49	0.03	47.8	5.7	36	0.56	10	3.3	9.53
12499		0.09	6.16	0.7	540	1.59	0.11	1.16	0.08	98.4	19.9	57	1.82	30.5	5.32	20.1
12500		0.09	6.76	1	550	1.82	0.12	1.28	0.08	85.6	19	56	2.04	32.6	4.53	21.1
12601		0.12	3.95	0.8	540	0.98	0.05	1.19	0.08	302	18.1	83	0.23	19.4	7.86	18.45
12602		0.31	3.44	1.1	360	0.88	0.07	0.97	0.09	458	24.1	124	0.21	23.8	12.1	26.9
12603		0.37	3.49	1.3	390	0.84	0.06	0.91	0.08	375	21.4	120	0.27	22.4	12.25	27.4
12604		0.28	3.54	1.2	360	0.82	0.06	0.96	0.09	313	20.1	105	0.23	21.8	9.92	20.7
12605		0.05	3.15	0.4	500	0.7	0.04	0.57	0.05	62.1	7.5	25	0.32	10.2	2.86	10.45
12606		0.18	5.92	0.9	430	0.59	0.05	0.82	0.14	>500	24	111	0.57	17.4	11.25	18.45
12607		0.12	5.41	0.6	550	0.71	0.04	0.7	0.11	>500	23.8	85	0.59	14.4	8.57	16.25
12608		0.16	5.24	1	370	0.47	0.05	0.74	0.11	>500	24.4	118	0.54	18.8	11.8	20.8
12609		0.11	5.42	0.7	520	0.56	0.05	0.74	0.09	>500	17.2	89	0.68	14.1	8.84	15.55
12610		0.11	5.2	0.6	520	0.6	0.06	0.61	0.08	>500	18	87	0.64	13	8.4	16.4
12611		0.05	6.22	0.5	660	0.96	0.02	0.89	0.11	244	16.5	65	0.7	11	6.74	13.7
12612		0.07	6.22	0.3	610	0.88	0.02	1.09	0.13	145	21.3	81	0.57	15.7	7.88	14.8
12613		0.09	7.37	1.1	460	2.19	0.12	1.44	0.12	72.1	22.9	71	1.99	39.4	5.65	21.4
12614		0.05	5.64	0.4	720	0.76	0.02	0.63	0.11	118.5	15	65	0.67	10.2	5.72	13.1
12615		0.07	5.42	0.3	610	0.91	0.02	1.02	0.11	107.5	18.4	67	0.59	12.8	6.7	12.75
12616		0.04	5.28	0.4	810	1.2	0.03	0.51	0.06	70.1	8.6	50	1	11.7	3.11	13.6
12617		0.04	4.91	0.5	790	0.83	0.02	0.5	0.08	51.5	12.5	50	0.75	9.2	3.79	11
12618		0.04	5.58	0.6	650	0.71	0.01	0.74	0.11	159	18.7	76	0.52	13.5	7.09	13.85
12619		0.04	4.29	0.7	720	0.9	0.02	0.54	0.06	79.7	10.1	38	0.46	12.6	3.65	10.3
12620		0.07	5.96	1.1	590	0.69	0.04	0.58	0.1	242	17.6	81	0.62	12.6	7.67	13.9
12621		0.05	4.75	0.5	720	0.61	0.03	0.48	0.07	63.9	10.5	47	0.61	7.7	4.38	10.75
12622		0.05	2.9	0.5	490	0.63	0.04	0.27	0.03	148.5	4.2	24	0.88	7.6	2.04	7.82
12623		0.07	9.77	0.4	230	0.34	0.08	0.09	0.02	28	2.4	21	1.03	3.3	2.2	27.9
12624		0.03	2.78	0.7	400	0.56	0.04	0.33	0.03	57.7	3.4	29	0.61	6.6	1.64	6.31



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		Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
		ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5	0.1
FLUSH A		0.09	1.2	0.014	2.7	12.2	5	0.23	166	0.87	1.31	2.1	8.5	120	21.8	116.5
FLUSH B		0.09	1.1	0.014	2.6	12.1	4.7	0.23	184	0.87	1.24	2.2	8.8	110	21.2	111.5
FLUSH C		0.1	1.2	0.015	2.63	12.8	4.9	0.22	161	0.95	1.25	2.1	7.9	110	22.1	115.5
12488		0.18	1.1	0.051	2.27	27.7	5.3	0.71	438	0.16	0.53	5.5	13.3	170	16.2	104
12489		0.17	1.3	0.033	1.99	39.4	7.2	0.32	279	0.7	0.74	5.7	9.9	220	17	86.9
12490		0.1	0.9	0.022	3.02	9.6	5.6	0.16	175	0.17	0.48	4	5.5	130	25.7	154
12491		0.16	1.4	0.038	1.82	24.1	4.9	0.46	267	0.72	1.45	5.4	10.9	140	17.7	87.4
12492		0.16	1	0.027	1.37	32.5	2.8	0.23	243	0.19	1.22	5.2	6.3	120	15.6	52.2
12493		0.15	1.5	0.031	1.51	25.8	3.7	0.28	260	0.61	1.29	5.3	7.8	120	15.3	64.7
12494		0.33	1.6	0.047	1.19	90.2	2.6	0.29	628	0.77	1.07	15.5	10	180	16.7	42.3
12495		0.19	2	0.059	1.73	38.9	3.3	0.5	480	0.64	0.9	9.8	9.4	170	13.9	63.5
12496		0.19	2.5	0.047	1.69	42.8	2.2	0.19	315	0.9	0.61	9.2	6.7	120	16	60.8
12497		0.18	2.7	0.048	1.6	35	2.7	0.29	335	0.65	0.88	8.2	10	120	14.8	59.8
12498		0.15	1.9	0.043	1.43	23.3	3.6	0.19	330	0.77	0.5	7.1	7.5	140	14.1	56.3
12499		0.26	2	0.102	2	51.6	11.9	1.16	741	0.37	0.61	13.7	27.5	420	16.7	112
12500		0.23	1.9	0.09	2.05	45.8	13.3	1.11	634	0.98	0.76	11.2	28.5	480	17.5	120
12601		0.55	8.8	0.166	1.48	122	2.5	0.77	977	0.68	0.67	43.3	16.4	290	12.7	51.5
12602		0.82	10.3	0.264	1.08	182.5	2.5	0.77	1355	1.56	0.53	85.9	19.2	340	17.4	39
12603		0.74	5.2	0.282	1.17	152	2.5	0.61	1260	1.4	0.54	90.4	17.1	310	15.5	41.9
12604		0.58	6.9	0.224	1.07	127	2.4	0.62	1230	1.6	0.6	81	16.3	270	13.8	37.5
12605		0.17	2.9	0.061	1.47	29.7	2.9	0.31	369	0.5	0.53	10.3	9.2	140	9.7	53.6
12606		1.08	2.8	0.132	1.49	376	7.5	1.4	1585	1	0.19	28.1	12.8	580	31.1	66.3
12607		0.92	2.2	0.095	1.96	319	8.1	1.12	1220	0.3	0.3	19.9	13.6	570	33.2	88.3
12608		1.66	4.3	0.142	1.32	670	6.3	1.23	1530	0.6	0.17	44	12.4	910	44.3	56.8
12609		0.91	2	0.093	1.82	412	6.8	1.04	1220	0.24	0.24	20.2	12.1	630	31.1	71.4
12610		1.01	2.6	0.116	1.79	367	7.4	1.02	1110	0.59	0.3	31.6	10.5	560	34.4	76.4
12611		0.4	1.1	0.083	2.65	107	11.7	1.34	970	0.26	0.43	6.8	12.4	400	25.8	124
12612		0.33	0.8	0.095	2.1	74.2	9.8	1.56	1160	0.65	0.42	9.6	15.7	330	20	88.5
12613		0.24	1.6	0.084	1.7	38.7	21.4	1.35	698	0.47	0.37	9.3	36.2	690	17.1	103
12614		0.29	1	0.071	2.64	61.4	10.1	1.14	813	0.64	0.39	5.5	12.3	280	24.3	127
12615		0.3	0.8	0.084	2.14	55.8	9.1	1.36	948	0.17	0.39	8.3	14.2	270	19.7	97.4
12616		0.22	0.9	0.039	3.11	37.3	12.5	0.6	353	0.7	0.51	3.8	16	270	31	147.5
12617		0.22	0.8	0.048	3.01	27.2	9.2	0.77	629	0.2	0.44	3	14.2	270	26.7	135
12618		0.35	1	0.087	2.28	81.9	9.7	1.3	992	1.11	0.34	9.7	13.6	270	22.3	105
12619		0.24	0.5	0.044	2.51	40.7	7.1	0.57	424	0.13	0.37	4.5	11.9	210	22.5	99.2
12620		0.48	1.3	0.081	2.08	116	8.3	1.2	1130	0.57	0.3	11.2	11.7	340	19.6	91.1
12621		0.29	1	0.045	2.47	31.2	7.2	0.75	607	0.15	0.37	4.5	9.3	250	19.3	113.5
12622		0.28	2.3	0.022	1.63	71.3	4.1	0.13	266	0.73	0.27	8.4	5.9	190	17.3	77.2
12623		0.16	0.8	0.048	0.12	18.7	10.4	0.07	30	0.52	0.03	18.3	4.8	70	11.6	11.3
12624		0.18	0.9	0.016	1.42	26.6	4.3	0.1	259	0.86	0.38	4.2	5.5	130	14.7	59.3



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		Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
FLUSH A		0.002	<0.01	0.06	3.8	1	0.7	205	0.15	<0.05	4.9	0.06	0.43	0.6	17
FLUSH B		0.002	<0.01	0.11	3.7	1	0.9	194	0.14	<0.05	5.1	0.058	0.42	0.6	17
FLUSH C		0.002	<0.01	0.07	3.7	1	0.7	199	0.14	<0.05	5.1	0.055	0.44	0.7	16
12488		0.003	<0.01	0.17	13.1	2	2.1	65	0.33	<0.05	9.9	0.213	0.36	0.7	48
12489		0.003	<0.01	0.1	9	1	1.4	71.5	0.33	<0.05	20.2	0.254	0.32	0.8	47
12490		0.002	<0.01	0.06	3.8	1	1.5	46.4	0.27	<0.05	5.4	0.108	0.59	0.7	19
12491		0.003	<0.01	0.09	8.1	1	2.7	79.5	0.38	<0.05	12	0.222	0.3	1.2	54
12492		0.002	<0.01	0.05	5.5	1	1.3	68.2	0.33	<0.05	17.1	0.28	0.18	1	80
12493		0.002	<0.01	0.07	6.8	1	1.8	73.1	0.35	<0.05	12.9	0.237	0.22	1.1	45
12494		0.003	<0.01	0.06	10	3	2.7	57.9	0.96	<0.05	61.3	0.785	0.15	2.3	130
12495		0.002	<0.01	0.05	10.7	2	2.1	60.7	0.56	<0.05	20.8	0.378	0.22	1.1	67
12496		0.002	<0.01	0.07	5.7	2	1.5	53.1	0.53	<0.05	29.7	0.332	0.21	1.5	55
12497		0.003	<0.01	<0.05	6.7	2	1.6	65	0.5	<0.05	17.1	0.27	0.2	1.3	51
12498		0.002	<0.01	0.08	6.2	1	1.4	45.7	0.44	<0.05	17.3	0.333	0.21	1	75
12499		0.003	0.01	0.12	20.9	2	3.1	70.9	0.74	<0.05	19.8	0.495	0.4	1.2	103
12500		0.003	0.01	0.16	18.6	2	3	83.1	0.6	<0.05	16.8	0.365	0.44	1.1	79
12601		0.004	<0.01	<0.05	22.7	5	5.2	43.4	2.06	0.06	73.1	1.565	0.13	4.1	242
12602		0.005	<0.01	<0.05	28	8	9.4	33.7	3.98	0.09	142	2.41	0.12	5.4	401
12603		0.005	<0.01	<0.05	24.8	7	9.4	35.7	3.92	0.09	115.5	2.23	0.13	3.8	389
12604		0.004	<0.01	0.07	23.5	7	7.9	36.7	3.87	0.08	94.3	2.37	0.11	3.7	333
12605		0.002	<0.01	0.06	8.1	2	1.9	40.8	0.55	<0.05	13.4	0.357	0.16	0.9	67
12606		0.005	<0.01	0.09	47	5	3.5	49.6	1.62	0.08	293	1.545	0.27	6	190
12607		0.004	<0.01	<0.05	30.6	4	1.7	76.7	1.18	0.06	227	1.255	0.36	6.3	180
12608		0.006	<0.01	0.07	43	6	4.6	41.9	2.4	0.08	490	2.23	0.21	9.1	256
12609		0.004	<0.01	0.05	29.9	4	2.6	51.8	1.19	0.06	282	1.37	0.28	5.4	167
12610		0.004	<0.01	0.08	29.1	4	3.5	66.7	1.66	0.06	284	1.525	0.3	6.1	153
12611		0.003	<0.01	<0.05	27.3	3	0.6	107.5	0.42	0.05	64.5	0.441	0.5	2.2	74
12612		0.003	<0.01	0.05	32.9	3	1.4	87.8	0.56	0.07	39.8	0.591	0.36	1	134
12613		0.003	0.03	0.14	23.6	2	2.1	100	0.53	0.07	11	0.478	0.44	0.8	120
12614		0.003	<0.01	0.05	24	2	0.7	104	0.32	0.05	31.5	0.281	0.54	1.1	65
12615		0.003	<0.01	<0.05	28.7	2	1.1	90.2	0.47	0.07	29.3	0.473	0.41	0.8	105
12616		0.002	<0.01	0.06	10.5	1	0.7	128	0.23	<0.05	14.6	0.204	0.64	0.8	49
12617		0.002	<0.01	<0.05	13.9	2	0.5	120	0.2	0.05	9.7	0.203	0.59	0.7	54
12618		0.003	<0.01	0.07	30.2	2	1.2	90.4	0.52	0.08	44.6	0.469	0.44	1.2	106
12619		0.002	<0.01	<0.05	12.8	1	0.8	92.6	0.26	<0.05	20.2	0.319	0.42	0.5	71
12620		0.003	<0.01	0.06	32.1	3	1.4	80.3	0.67	0.1	70.2	0.733	0.37	2.1	121
12621		0.002	<0.01	<0.05	18.3	2	0.7	96.1	0.27	0.06	14.1	0.264	0.46	0.8	63
12622		0.002	<0.01	0.07	5.1	2	1.2	54.5	0.55	<0.05	35	0.423	0.31	1.9	37
12623		0.002	0.01	0.05	3.7	1	1.8	15.3	1.08	0.05	11.3	0.41	0.09	0.4	38
12624		0.002	<0.01	0.08	3.6	1	1	49.5	0.28	<0.05	13.3	0.195	0.25	1	29



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CERTIFICATE OF ANALYSIS PH08172424

Sample Description	Method Analyte Units LOR	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Y	Zn	Zr	Dy	Er	Eu	Gd	Ho	Lu	Nd	Pr	Sm	Tb	Tm
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	2	0.5	0.05	0.03	0.03	0.05	0.01	0.01	0.1	0.03	0.03	0.01	0.01
FLUSH A		5.9	12	36.4	1.07	0.63	0.87	1.71	0.23	0.09	8.8	2.51	1.59	0.23	0.09
FLUSH B		5.6	11	31	1.06	0.61	0.85	1.74	0.22	0.09	8.9	2.56	1.61	0.23	0.09
FLUSH C		5.8	11	36.3	1.07	0.62	0.88	1.73	0.23	0.09	9.2	2.64	1.68	0.23	0.09
12488		25.9	28	29.8	3.82	2.79	1.16	4.41	0.97	0.37	20.9	5.72	4.06	0.69	0.42
12489		20.7	23	38.1	3.5	2.16	1.21	5.54	0.77	0.28	30.3	8.28	5.48	0.72	0.31
12490		7.6	14	24.2	1.33	0.82	0.53	1.76	0.3	0.1	7.7	2.16	1.58	0.26	0.12
12491		12.9	19	40.9	2.54	1.4	0.83	3.83	0.53	0.17	17.9	5.03	3.66	0.54	0.19
12492		12.7	16	31.1	2.7	1.37	0.88	4.7	0.54	0.15	23.8	6.56	4.55	0.61	0.18
12493		17	18	43.2	2.85	1.77	0.86	4.08	0.65	0.23	20.2	5.5	3.9	0.58	0.25
12494		40.3	33	45.6	7.3	4.22	1.29	13.85	1.54	0.52	72.5	21.5	13.75	1.72	0.59
12495		33.9	37	57.6	5.45	3.61	1.31	7.02	1.28	0.46	32	8.39	6.59	1.04	0.51
12496		26.8	27	71.1	4.82	2.8	1.2	7.48	1.05	0.34	35.1	9.33	7.31	1.04	0.39
12497		28.1	22	73.8	4.8	3.12	1.38	6.8	1.11	0.42	30.4	7.95	6.5	1	0.46
12498		15.3	21	53.3	2.63	1.63	0.79	3.86	0.6	0.21	18.5	5.02	3.75	0.54	0.23
12499		39.7	73	61.3	6.53	4.25	1.88	8.78	1.51	0.55	40.9	10.95	8.22	1.3	0.61
12500		32.4	71	60.7	5.34	3.31	1.89	7.49	1.21	0.41	35.4	9.58	7.14	1.06	0.47
12601		105	87	257	16.3	9.58	2.22	26.2	3.55	1.2	128	33.2	24.8	3.52	1.35
12602		152	141	280	27.1	16.15	2.53	44	5.95	2.01	223	58.1	42	5.81	2.25
12603		126.5	136	151	22.9	13.35	2.32	37.1	4.89	1.64	184.5	48	35.2	5	1.84
12604		123.5	126	204	20.5	13.15	1.99	30.3	4.73	1.69	149	38.7	28.7	4.19	1.87
12605		24.3	30	85.7	4.1	2.62	1.38	5.52	0.95	0.35	24.8	6.48	5.19	0.82	0.37
12606		100.5	88	88	19.9	10.9	2.96	48.8	3.78	1.21	364	104.5	52.2	4.91	1.35
12607		73.4	78	67.6	15.15	8.18	2.4	40.9	2.78	0.9	314	89.9	45.2	3.88	1
12608		94.4	100	123	23	10.9	4.05	75.3	3.61	1.11	620	178.5	85	6.51	1.19
12609		64.5	73	57.5	14.75	7.37	2.68	43.2	2.51	0.78	341	98.5	48.9	4	0.85
12610		69.6	77	77	16.45	7.39	2.74	47.7	2.68	0.69	359	103.5	52.8	4.55	0.8
12611		61.1	69	28.8	9.94	6.3	1.61	15.45	2.23	0.78	89.9	27.7	15.4	2.01	0.88
12612		56.3	74	22.5	8.86	5.75	1.45	11.05	2.06	0.71	54.3	15.05	9.86	1.68	0.82
12613		33.8	88	48.1	5.35	3.48	1.58	6.41	1.27	0.44	28	7.7	5.67	1.03	0.5
12614		49.5	54	29	7.58	5.1	1.42	9.05	1.81	0.65	42.8	12.1	7.85	1.41	0.73
12615		50.6	62	20.5	7.75	5.28	1.35	8.75	1.87	0.67	39.2	10.95	7.2	1.43	0.77
12616		18.1	38	27.3	3.22	2.07	1.45	4.43	0.74	0.26	23.9	6.78	4.24	0.63	0.3
12617		28.5	37	23.8	4.31	2.97	1.32	4.32	1.06	0.39	17.2	4.87	3.43	0.77	0.44
12618		56.6	63	28.8	8.92	5.86	1.48	11.35	2.1	0.74	58.5	17.7	10.35	1.7	0.83
12619		17	35	14.2	3.14	1.96	1.26	4.75	0.69	0.25	28.1	7.79	4.8	0.63	0.28
12620		60.6	65	41.1	9.82	5.79	1.37	15.55	2.05	0.73	98.7	28	14.95	1.9	0.85
12621		33.5	36	31.1	4.88	3.15	1.15	5.27	1.13	0.43	24.4	6.39	4.31	0.84	0.5
12622		14.5	19	79.6	3.47	1.5	1.04	8.38	0.56	0.17	57.4	16.45	8.9	0.85	0.2
12623		1.2	11	27	0.37	0.16	0.2	0.99	0.06	0.02	7.7	2.51	0.92	0.09	0.02
12624		8.1	12	27.8	1.58	0.81	0.62	3.22	0.3	0.1	21.2	5.51	3.34	0.35	0.11



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		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05
12625		0.07	5.4	0.6	730	0.71	0.04	0.93	0.09	392	9.4	48	0.75	8.9	5.39	12
12626		0.07	5.53	1.3	510	0.78	0.07	0.69	0.06	189.5	13.1	91	0.67	12.9	6.84	12.25
12627		0.06	5.94	1.3	760	0.63	0.03	0.49	0.07	118	17.7	106	0.59	14.6	7.54	12.5
12628		0.03	2.93	0.5	350	0.45	0.06	0.37	0.03	19.6	3.8	26	0.51	6.8	2.45	6.57
12629		0.06	3.99	0.6	540	0.73	0.07	0.73	0.06	94.9	14.4	45	0.51	11	4.59	12.1
12630		0.03	3.87	0.6	580	0.68	0.06	0.5	0.04	162	8	32	0.86	8.5	3.41	11.35
12631		0.03	3.61	0.5	590	0.66	0.07	0.2	0.03	52.7	5.3	25	1.08	8.8	1.72	7.96
12632		0.05	3.47	0.4	550	0.51	0.05	0.52	0.04	156.5	6.9	39	0.56	7	3.4	10.2
12633		0.03	3.04	0.6	550	0.4	0.05	0.29	0.03	57.7	4.2	34	0.53	7.7	2.21	7.28
12634		0.03	2.83	0.6	530	0.35	0.05	0.17	0.03	72.3	4.2	39	0.87	6.3	2.25	6.53
12635		0.02	3.41	0.4	610	0.35	0.04	0.43	0.03	43.7	4.3	39	0.41	5.7	2.75	6.5
12636		0.04	3.13	0.2	510	0.47	0.05	0.4	0.03	57.6	4.2	32	0.48	6.4	2.51	7.22
12637		0.07	3.11	0.6	410	0.41	0.06	0.48	0.04	153.5	11	80	0.46	8.9	6.6	11.95
12638		0.04	3.56	0.5	590	0.45	0.07	0.49	0.04	79.7	6.7	42	0.54	6.8	3.41	9.54
12639		0.04	4.61	0.9	540	1.02	0.1	0.53	0.04	88.2	8.6	43	1.17	14.4	3.08	13.15
12640		0.04	2.63	0.6	360	0.72	0.08	0.21	0.03	115.5	6.9	39	0.8	9.8	2.44	7.78
12641		0.04	4.05	0.6	590	0.66	0.06	0.5	0.04	64	5.7	42	0.76	8.8	2.51	9.77
12642		0.07	4.22	0.8	480	0.75	0.09	0.69	0.04	250	11	68	0.85	11.1	5.18	14.5
12643		0.06	4.71	0.4	600	0.97	0.07	0.86	0.05	72.6	9.5	43	0.96	14.6	3.23	12.75
12644		0.03	3.58	0.6	600	0.56	0.06	0.39	0.03	61	5.8	35	0.65	7.7	2.89	9.79
12645		0.03	3.03	0.5	530	0.45	0.05	0.28	0.03	56.7	3.9	30	0.4	7.1	2.29	7.26
12646		0.04	2.49	4.1	290	0.42	0.12	0.19	0.03	49.4	11.5	37	0.41	8	4.72	9.2
12647		0.05	4.24	0.5	570	0.73	0.06	0.95	0.05	99.4	11.6	65	0.5	11.2	5.48	13.05
12701		0.06	4.74	0.4	640	0.83	0.13	1.57	0.05	123	11.1	53	1.4	8.1	4.47	12.65
12702		0.03	2.84	0.9	560	0.38	0.07	0.75	0.03	47.2	3.3	27	0.94	5.7	1.7	5.89
12703		0.1	4.06	0.9	450	0.5	0.05	0.66	0.08	370	19.8	100	0.3	16.2	7.57	13.25
12704		0.07	5.32	1.2	560	0.78	0.05	1.08	0.09	89.4	19.7	76	0.48	19.5	7.34	14.1
12705		0.04	3.3	1.6	870	0.72	0.04	0.44	0.1	131	34.8	43	0.31	19	3.78	9.37
12706		0.04	4.63	0.8	610	0.64	0.04	0.51	0.07	106	12.5	59	0.5	11.1	5.6	11.1
12707		0.05	4.48	0.5	700	0.58	0.03	0.61	0.07	79.1	18.8	56	0.34	14.4	5.23	10.95
12708		0.08	3.65	0.6	510	0.34	0.04	0.86	0.05	126.5	14.1	63	0.44	12.2	4.71	9.92
12709		0.05	2.81	0.4	430	0.32	0.05	0.24	0.04	52.1	6.6	35	0.46	7	3.11	7.09
12710		0.2	4.97	1.4	340	0.33	0.06	0.59	0.08	>500	22	154	0.32	22.6	12.6	17.5
12711		0.09	3.76	0.3	500	0.49	0.05	0.73	0.05	80.5	9.8	43	0.39	7.1	4.53	10.7
12712		0.03	3.18	<0.2	600	0.36	0.04	0.34	0.03	41.1	3.6	24	0.48	5.1	1.69	7.07
12713		0.38	7.94	0.2	3320	2.11	0.05	2.23	0.16	198	67.2	121	1.56	120.5	7.66	22.4
12714		0.41	7.5	<0.2	3460	1.39	0.05	1.34	0.17	227	51.4	108	1.64	54	6.95	17.4
12715		0.47	7.14	0.8	4880	2.08	0.02	0.13	0.07	267	63.4	101	1.9	70.6	8.68	19.8
12716		0.09	5.65	0.6	880	0.9	0.05	1	0.07	104.5	18	67	0.72	21.6	5.16	14.5
12717		0.09	5.31	1.2	830	0.78	0.03	1.07	0.1	96.9	24.8	77	0.45	19.6	6.06	13.8



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		Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
		ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5	0.1
12625		0.51	1.6	0.042	2.37	202	6	0.6	1130	0.71	0.53	7.9	9.8	390	24.2	87.4
12626		0.41	1.8	0.069	1.81	92.7	7.6	0.85	806	0.26	0.36	15	15.7	320	17	75.6
12627		0.34	0.8	0.069	2.49	53.6	8.6	1.2	1080	0.78	0.34	9	20.4	330	20	99.2
12628		0.16	0.8	0.03	1.23	9	4.8	0.15	213	0.16	0.26	6.4	5.7	100	8.7	48.8
12629		0.28	1.8	0.065	1.72	43.2	4.9	0.62	799	0.8	0.54	12.2	13	220	14.4	77
12630		0.34	1.6	0.049	1.92	73.5	4.7	0.37	455	0.23	0.51	11.4	10	210	15.9	90.1
12631		0.18	1.3	0.019	2.45	21	4.6	0.21	245	0.62	0.34	3.9	8.3	140	16.9	110.5
12632		0.33	1.9	0.046	2	75.1	3.9	0.31	499	0.19	0.38	10.5	10.7	180	14.4	81.8
12633		0.18	1.5	0.027	1.89	27.8	3.5	0.18	274	0.67	0.31	6	7.4	130	12.6	70.9
12634		0.19	0.8	0.022	1.83	36.1	4	0.12	264	0.26	0.18	4.8	5.9	150	14.5	74.3
12635		0.16	1.3	0.029	2.15	21.6	2.7	0.25	352	0.64	0.41	6.2	6.7	140	10.9	62.9
12636		0.19	1.3	0.038	1.77	28.9	3	0.21	264	0.19	0.37	8.7	6.9	140	11.1	61.6
12637		0.39	2	0.083	1.46	71.9	3.5	0.35	757	0.61	0.25	26.6	17	180	11.7	56.4
12638		0.25	1.4	0.045	2.11	39	4.4	0.28	493	0.21	0.39	11.7	8.9	160	13	78.9
12639		0.25	2.2	0.05	1.95	43.4	8.2	0.34	388	0.85	0.45	9.1	14.3	230	15	90
12640		0.24	1.3	0.029	1.22	54.5	4.9	0.2	315	0.23	0.2	7.7	10.4	180	11	57.6
12641		0.21	1.6	0.034	2.02	31.6	4.9	0.25	307	0.5	0.48	6.6	9.4	170	13.5	78.4
12642		0.47	2.5	0.07	1.74	116	5.9	0.42	658	0.3	0.41	19.9	15.6	260	15.7	73.2
12643		0.24	1.9	0.054	2.2	36.8	6.8	0.68	442	0.74	0.59	7	16.3	310	14.2	96.3
12644		0.22	1.7	0.04	2.06	30.6	4.4	0.25	320	0.23	0.39	8.7	9.1	160	14	81.8
12645		0.18	1.5	0.026	1.79	27.7	3.1	0.15	238	0.64	0.35	5.1	6.4	130	11.3	62.5
12646		0.24	1.3	0.048	0.95	21.7	2.9	0.13	346	0.43	0.21	8.6	6.8	130	9	36.2
12647		0.33	2.2	0.07	2.03	48.2	4.6	0.76	676	0.62	0.55	12.4	16.5	250	12.2	75.2
12701		0.29	1.2	0.059	2.2	50	6.2	0.94	709	0.17	0.6	7.6	16	220	13.7	94.2
12702		0.18	0.7	0.019	1.95	20.7	4	0.16	227	0.49	0.24	3.2	5.3	130	12.3	77.2
12703		0.6	1.5	0.06	1.12	176	4.3	0.59	1350	0.6	0.23	23.8	14.9	340	18	43.6
12704		0.35	1	0.059	1.71	41.9	6	0.81	1120	1.05	0.43	15.8	18.5	230	13.5	66.3
12705		0.3	0.5	0.038	1.54	56.9	3.8	0.35	2120	0.49	0.25	8.2	12.6	380	15	55.5
12706		0.33	0.9	0.054	1.9	51	6.3	0.7	844	0.45	0.3	9.5	10.8	210	15.3	77.4
12707		0.3	0.5	0.05	1.8	39	5.8	0.74	1575	0.28	0.29	8.7	14	230	16.5	69.9
12708		0.35	1	0.05	1.31	61.4	5.3	0.53	736	0.52	0.19	12.9	10.4	160	14	55.7
12709		0.23	0.6	0.038	1.35	25.1	3.6	0.29	395	0.21	0.18	7.2	5.8	130	15.5	59
12710		1.03	2.3	0.124	1.09	289	4.8	1.11	1480	1.21	0.17	55.7	15.3	460	22.8	43.4
12711		0.31	1.4	0.076	1.7	38.6	3.3	0.67	642	0.21	0.58	18.9	11.1	230	14.2	69.8
12712		0.17	1.3	0.024	2.16	21.2	3	0.2	207	0.4	0.4	3.8	5.5	130	13.9	79.4
12713		0.53	0.7	0.09	4.13	111.5	10	2.52	1335	15.9	0.29	113	79.8	1500	15.4	241
12714		0.55	0.7	0.079	6.02	121	7.2	2.27	1460	3.05	0.41	97.3	60.2	4330	8.5	315
12715		0.67	0.3	0.078	6.34	159.5	9.7	3.45	305	0.13	0.32	160	76.4	980	6.7	198.5
12716		0.31	1	0.056	2.21	51	8.5	0.98	805	0.38	0.56	16.6	26.6	370	25.7	92.1
12717		0.34	0.9	0.059	2	46.3	7.2	1.11	1255	1.09	0.44	14.4	23.1	430	17.4	81.1



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CERTIFICATE OF ANALYSIS PH08172424

Sample Description	Method Analyte Units LOR	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
12625		0.003	<0.01	0.07	20.6	2	1	79.7	0.53	0.07	104.5	0.539	0.34	3.5	73
12626		0.003	<0.01	0.06	18.8	3	1.8	69.5	0.9	0.08	49	1.09	0.3	2.4	131
12627		0.002	<0.01	0.06	23	2	1.6	89.2	0.49	0.09	26.1	0.658	0.43	1.4	135
12628		0.002	<0.01	0.09	5.5	1	1.2	30.8	0.38	<0.05	5.4	0.291	0.18	0.4	51
12629		0.003	<0.01	0.07	15.6	2	2.4	54.9	0.7	0.06	23.5	0.463	0.29	1.3	87
12630		0.002	<0.01	0.05	10.6	2	2.3	62.2	0.71	0.05	41.2	0.574	0.33	1.6	72
12631		0.002	<0.01	0.08	4.6	1	1	52.4	0.26	<0.05	8.5	0.148	0.41	0.9	32
12632		0.002	<0.01	0.05	10.7	2	2	50.3	0.61	0.05	35.5	0.501	0.28	0.9	73
12633		0.002	<0.01	0.1	5.2	1	1.4	42.2	0.34	<0.05	13.7	0.286	0.25	0.7	43
12634		0.002	<0.01	0.1	5.3	1	1.2	51.7	0.3	<0.05	20	0.269	0.27	0.7	43
12635		0.002	<0.01	0.07	5.5	1	1.3	38.5	0.37	<0.05	9.2	0.348	0.22	0.6	53
12636		0.002	<0.01	0.05	6.2	1	1.5	42.1	0.49	<0.05	15.3	0.393	0.22	0.8	55
12637		0.002	<0.01	0.07	14.8	3	4.3	35.2	1.54	0.1	42.9	1.315	0.19	1.4	155
12638		0.002	<0.01	0.07	9.2	2	2.1	48.5	0.7	<0.05	18.4	0.591	0.26	0.9	79
12639		0.002	0.01	0.14	10.7	2	2.2	63.1	0.54	0.05	20.1	0.4	0.31	1.2	64
12640		0.002	<0.01	0.08	6	2	1.2	32.9	0.5	<0.05	29.4	0.4	0.21	1.2	51
12641		0.002	<0.01	0.08	7	1	1.6	55.7	0.4	<0.05	14.7	0.316	0.27	0.8	52
12642		0.003	<0.01	0.1	14.4	3	3.4	55.1	1.16	0.08	71.2	0.953	0.25	2.2	121
12643		0.002	0.01	0.1	11.7	2	2	65.2	0.4	0.07	14.1	0.279	0.33	1	57
12644		0.002	<0.01	0.06	7.3	1	1.9	53.1	0.5	0.05	14.9	0.39	0.28	0.8	62
12645		0.002	<0.01	0.07	5	1	1.2	38.7	0.3	<0.05	14.9	0.244	0.21	0.8	46
12646		0.002	0.01	0.07	7	2	1.8	20.6	0.49	0.07	15.3	0.45	0.14	0.7	107
12647		0.002	<0.01	0.07	15.2	2	2.9	51.5	0.7	0.08	25	0.616	0.25	1.6	125
12701		0.002	<0.01	0.22	16.8	2	2.8	64.7	0.5	0.06	23	0.404	0.32	1.2	81
12702		0.002	<0.01	0.15	4.3	1	1.1	51.6	0.2	<0.05	9.7	0.163	0.29	0.7	31
12703		0.003	0.01	0.06	21.4	3	2	54.1	0.96	0.14	99	1.095	0.21	2.7	201
12704		0.003	<0.01	0.09	23.9	3	1.3	87.2	0.62	0.13	20.5	1.01	0.26	0.8	208
12705		0.003	0.02	<0.05	19.8	2	0.7	107	0.36	0.06	8.7	0.275	0.49	0.8	94
12706		0.002	<0.01	0.06	21.9	2	1.3	79.3	0.48	0.1	26.9	0.504	0.31	0.8	103
12707		0.002	0.01	<0.05	20	2	1	85	0.34	0.09	20.2	0.372	0.39	0.5	102
12708		0.002	0.01	0.07	15.9	2	1.9	67.6	0.58	0.06	39.1	0.796	0.22	1	127
12709		0.002	<0.01	0.07	10.7	2	1.1	47.9	0.38	<0.05	15.9	0.402	0.23	0.5	64
12710		0.004	<0.01	0.14	36.3	5	5.6	43.5	2.23	0.23	204	2.86	0.17	3.9	412
12711		0.002	<0.01	<0.05	15.2	2	3	47.9	1.11	0.05	19.9	0.643	0.24	0.9	94
12712		0.002	<0.01	0.05	4.7	1	1	48.1	0.2	<0.05	9.6	0.18	0.28	0.6	32
12713		0.004	0.02	0.06	34.3	2	2.5	519	4.21	0.14	16.4	0.599	0.27	1.7	161
12714		0.004	0.01	0.07	50.9	2	2	479	6.37	0.1	8.9	0.347	0.24	1	142
12715		0.004	0.02	0.06	30.3	3	2.3	309	10.95	0.15	2.2	0.537	0.23	1.3	231
12716		0.002	0.01	0.07	19.5	2	1.5	153	0.72	0.07	20.5	0.504	0.32	0.8	119
12717		0.003	<0.01	0.09	25.7	2	1.2	130	0.61	0.08	20	0.396	0.3	0.7	113



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Sample Description	Method Analyte Units LOR	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Y	Zn	Zr	Dy	Er	Eu	Gd	Ho	Lu	Nd	Pr	Sm	Tb	Tm
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	2	0.5	0.05	0.03	0.03	0.05	0.01	0.01	0.1	0.03	0.03	0.01	0.01
12625		51.4	40	53	9.62	5.1	1.52	20.4	1.78	0.63	158	42.9	21	2.12	0.72
12626		33.4	66	56.8	6.13	3.22	1.31	11.4	1.18	0.39	77.2	22.2	11.85	1.32	0.45
12627		39.6	70	24.9	6.14	3.81	1.23	7.86	1.36	0.5	44.6	11.65	7.25	1.11	0.59
12628		10.1	18	26.5	1.66	1.1	0.55	1.73	0.39	0.15	8.2	2.12	1.51	0.28	0.17
12629		45	48	55.5	6.98	4.48	1.26	8.13	1.62	0.6	39.7	9.92	7.21	1.22	0.7
12630		38.2	35	49.8	7.07	3.5	1.21	12.05	1.37	0.39	67.5	18.5	11.95	1.49	0.49
12631		8.9	19	38.4	1.75	0.93	0.77	2.94	0.35	0.12	16.9	4.39	2.87	0.37	0.14
12632		33.9	29	56.2	5.86	3.58	1.33	10.15	1.23	0.51	67.2	18.55	10.5	1.18	0.55
12633		14.2	25	48	2.69	1.48	0.92	4.28	0.54	0.2	24.2	6.08	4.23	0.54	0.22
12634		9.4	16	24.3	1.99	1	0.79	3.91	0.37	0.12	27.1	7.08	4.08	0.44	0.13
12635		15.3	29	38.3	2.67	1.68	0.85	3.52	0.59	0.22	18.6	4.7	3.37	0.5	0.26
12636		16.2	25	37.9	2.89	1.59	0.92	4.54	0.58	0.22	24.3	6.09	4.38	0.6	0.24
12637		44.4	67	61.1	7.66	4.4	1.1	11.65	1.62	0.56	66.7	18.4	11.5	1.52	0.66
12638		26	33	43.9	4.3	2.59	1.17	6.1	0.92	0.36	33.7	8.51	5.94	0.83	0.41
12639		26.1	39	71.5	4.54	2.5	1.42	6.78	0.93	0.32	37.6	9.42	6.67	0.9	0.37
12640		13.6	24	41.3	3.1	1.49	0.84	6.76	0.56	0.17	46.5	12	7.52	0.72	0.2
12641		18.7	27	49.8	3.23	1.82	1.18	4.88	0.68	0.24	27	6.79	4.77	0.65	0.27
12642		51.2	51	80.1	10.05	4.82	1.56	18.5	1.88	0.55	109.5	29.5	18.75	2.2	0.66
12643		25.8	46	60.6	4.27	2.5	1.46	5.93	0.9	0.33	31	7.84	5.58	0.82	0.38
12644		19.5	30	53.3	3.28	1.9	1.12	4.81	0.69	0.26	25.8	6.47	4.67	0.64	0.29
12645		12.8	20	47.6	2.54	1.4	0.89	4.07	0.51	0.18	23.5	5.91	4.07	0.51	0.21
12646		12.2	23	37.4	2.38	1.32	0.64	3.62	0.49	0.18	19.2	4.83	3.47	0.48	0.2
12647		40.5	58	68.3	6.46	4.05	1.36	8.48	1.45	0.55	44.4	11.05	8.04	1.19	0.63
12701		38.3	41	35.1	6.13	3.84	1.33	8.22	1.37	0.51	44	11.15	7.79	1.13	0.59
12702		11.1	14	20.6	2.05	1.16	0.87	3.3	0.42	0.15	20.8	5.34	3.43	0.41	0.17
12703		36.3	54	44.9	7.4	3.83	1.8	18.3	1.31	0.47	158.5	42.2	20.8	1.73	0.52
12704		38.3	61	27.5	5.84	3.76	1.29	6.73	1.35	0.51	35.5	9.12	5.96	1.02	0.59
12705		113	32	14.2	9.7	8.49	2.42	9.41	2.76	1.29	46.2	11.7	7.35	1.48	1.34
12706		41.3	40	28.1	6.24	4.11	1.16	7.23	1.46	0.55	40.3	10.65	6.37	1.08	0.64
12707		32.3	37	17.1	4.88	3.22	1.15	5.39	1.14	0.43	27.9	7.44	4.49	0.83	0.5
12708		29.9	39	33.5	4.94	2.84	1.14	7.75	1.01	0.38	51.4	15.7	8.66	1.04	0.4
12709		21.3	21	21.1	3.32	2.07	0.78	3.94	0.72	0.29	21.5	5.94	4.09	0.63	0.31
12710		78.1	109	77.8	15.3	7.64	2.34	33.9	2.67	0.9	276	78.7	40.7	3.7	0.98
12711		43.9	50	46.8	6.54	4.27	1.23	7.02	1.47	0.58	35.5	9.5	7.15	1.16	0.63
12712		13.8	20	43	2.33	1.31	1.04	3.2	0.48	0.18	17.9	4.82	3.5	0.48	0.19
12713		35.7	188	19.6	6.76	3.32	4.23	12.4	1.24	0.41	81.1	24.9	13.2	1.51	0.42
12714		29.5	160	17.9	6.54	2.79	4.92	13.75	1.08	0.32	97.6	29.2	15.65	1.59	0.33
12715		40.2	185	7.2	11.35	4.35	8.29	22.2	1.78	0.44	148.5	40.1	24	2.77	0.5
12716		29.9	62	29	4.79	2.81	1.66	6.6	1	0.38	39.4	10.8	6.94	0.96	0.41
12717		43	54	27.9	6.26	4.11	1.57	6.83	1.42	0.59	35.2	9.72	6.49	1.13	0.63



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		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05
12718		0.08	3.03	0.9	420	0.41	0.06	0.24	0.05	173.5	8.7	68	0.38	12.1	4.48	9.59
12719		0.05	3.04	0.8	590	0.33	0.04	0.19	0.04	192.5	7.5	38	0.41	9.6	3.22	8.6
12720		0.04	3.07	0.7	520	0.37	0.05	0.29	0.03	123.5	4.8	44	0.59	9	2.79	8.03
12721		0.06	4.88	0.2	600	0.82	0.07	0.93	0.05	142.5	10	51	0.86	10.6	4.28	14.05
12722		0.05	3.11	0.4	560	0.39	0.04	0.39	0.03	92	6.5	40	0.49	6.9	3.14	8.79
12723		0.03	3.42	0.4	590	0.39	0.05	0.38	0.03	44.8	4.5	23	0.55	5.3	2.3	7.37
12724		0.03	4.55	0.2	590	0.75	0.06	0.88	0.04	69.2	7	33	0.53	6.5	3.13	11.05
12725		0.04	3.49	0.3	590	0.45	0.04	0.5	0.04	45	5.3	24	0.4	6.5	2.56	8.38
12726		0.07	7.83	3.4	330	1.55	0.22	0.19	0.05	99.1	11.9	69	3.4	25.1	4.69	22
12727		0.06	6.63	2.7	400	1.51	0.2	0.27	0.04	96.7	11.7	58	3.32	21.4	4.18	18.5
12728		0.03	3.87	1	580	0.59	0.05	0.16	0.02	173	6.4	40	0.9	10.5	2.45	9.94
12729		0.03	2.33	0.9	170	0.43	0.07	0.13	0.03	24.3	3.5	44	0.45	9.2	3.51	7.05
12730		0.03	2.14	1.3	160	0.35	0.07	0.1	0.02	32.8	2.4	47	0.28	7.1	4.04	6.6
12731		0.04	3.52	1.4	290	0.57	0.11	0.1	0.03	65.6	4.8	61	1.02	11.3	3.21	9.81
12732		0.04	2.18	1.1	190	0.35	0.08	0.06	0.03	43.4	3.6	53	0.35	9.7	3.48	7.47
12733		0.05	3.99	1.2	250	0.89	0.09	0.2	0.04	124.5	6.8	35	1.6	15.1	2.84	11.5
12734		0.03	3.86	0.4	620	0.9	0.04	0.5	0.03	88.2	4.8	25	0.96	7.1	1.89	9.42
12735		0.02	2.64	0.4	570	0.55	0.02	0.19	0.03	42.5	2.7	10	0.8	4.9	1.28	6.03
12736		0.04	4.28	0.5	600	1.01	0.03	0.55	0.04	68.4	3.7	27	1.24	7.6	1.71	9.89
12737		0.04	5.64	0.5	640	1.91	0.04	1.41	0.04	130	6.6	19	1.88	9.3	2.34	14.75
12738		0.03	3.88	0.7	340	0.86	0.06	0.91	0.04	50.4	4.7	32	0.99	8.8	1.73	9.72
12739		0.05	2.38	1.8	360	0.72	0.04	0.14	0.03	50.3	5.3	38	0.61	13	2.82	7.01
12740		0.03	4.47	0.5	810	0.74	0.03	0.58	0.05	106	7.2	36	0.85	8.2	2.91	10.4
12741		0.04	4.86	0.7	740	0.49	0.02	0.52	0.06	111	10.1	38	0.51	7.7	4.91	11.05
12742		0.06	6.34	1.7	500	1.28	0.11	0.56	0.07	328	13.9	67	1.92	22.2	4.53	17.75
12743		0.02	4.17	0.7	740	0.35	0.03	0.35	0.05	60.9	6.9	30	1	7.7	3.35	8.84
12744		0.02	3.28	0.7	600	0.38	0.02	0.21	0.02	33.7	2.9	33	0.59	6.6	1.57	6.02
12745		0.02	4.77	0.4	720	0.62	0.04	0.95	0.04	55.9	5.6	37	0.65	7.3	2.26	8.96
12746		0.02	3.18	0.8	650	0.33	0.04	0.61	0.04	334	6.4	71	0.52	9.3	3.31	7.94
12747		0.03	3.95	0.8	690	0.62	0.06	0.63	0.04	148	8.2	61	1.06	10.6	2.53	9.02
12748		0.04	7.45	<0.2	410	1.31	0.03	3.32	0.08	115	26.2	105	0.58	18.9	5.29	17.95
12749		0.04	6.32	0.3	500	0.68	0.03	1.79	0.09	317	21.6	113	0.73	13.6	7.95	16.95
12750		0.03	4.71	0.5	690	0.58	0.03	1.01	0.05	88.7	11.6	52	0.64	10.5	3.77	10.85
12751		0.04	3.87	1	730	0.33	0.02	0.44	0.04	81.6	7.9	33	0.6	10.2	3.05	8.87



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CERTIFICATE OF ANALYSIS PH08172424

Sample Description	Method Analyte Units LOR	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
		ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5	0.1
12718		0.35	1.4	0.047	1.09	79.8	5.7	0.19	575	0.62	0.17	17.9	10.1	240	14.2	44.6
12719		0.33	1.2	0.033	1.33	91.2	3.9	0.15	476	0.32	0.18	11.1	7.4	250	16.6	53.2
12720		0.28	1.8	0.033	1.77	59.9	4.1	0.16	310	1.05	0.3	10.5	7.2	180	14.9	72.5
12721		0.36	1.8	0.064	2.17	70.3	5.8	0.56	567	0.26	0.67	11.4	13.7	310	18.4	87.8
12722		0.26	1.6	0.041	1.93	44.1	3.3	0.27	426	0.57	0.34	8.6	8.5	160	14	76.3
12723		0.18	1.2	0.038	1.95	22.5	4.3	0.3	317	0.2	0.4	6	5.6	180	12.8	77.4
12724		0.24	1.6	0.049	2.06	34.9	4.7	0.54	398	0.21	0.87	7.2	9.1	200	15.4	81.6
12725		0.2	1.5	0.035	1.97	22.8	4.4	0.38	339	0.43	0.49	5.2	6.9	160	14.6	77.5
12726		0.36	2.4	0.07	1.25	49.4	23.7	0.29	428	0.96	0.16	11.1	26.2	360	18.6	99.4
12727		0.3	2.2	0.06	1.56	48.3	24	0.35	467	0.69	0.18	9.8	23.3	260	17.5	102.5
12728		0.31	2.3	0.025	2.56	76.7	6	0.21	314	1.58	0.26	8.9	9.4	200	24.9	127.5
12729		0.17	1	0.025	0.59	10.5	4.2	0.08	223	0.65	0.16	3.6	6.5	110	9	25.4
12730		0.21	0.8	0.022	0.45	13.7	3.4	0.06	161	0.76	0.28	3.7	5.7	110	9.3	20.2
12731		0.22	1.2	0.031	1.12	32.1	8.5	0.12	235	0.67	0.14	5.7	9.2	200	14.2	57.5
12732		0.21	1.1	0.028	0.67	18.2	4.5	0.06	221	0.84	0.08	4.3	6.5	120	12.9	31.4
12733		0.25	1.7	0.035	0.94	43.9	9.9	0.2	351	0.53	0.14	7.5	11.8	160	18.9	69.7
12734		0.22	1.5	0.022	2.1	41.9	6.3	0.19	275	0.77	0.49	6.8	6.8	210	20.5	100
12735		0.16	0.7	0.013	1.82	17.8	4.2	0.07	141	0.49	0.23	3.4	3.8	130	18.3	78.6
12736		0.21	1.1	0.02	2.6	32.1	6.9	0.12	252	1.5	0.6	4.7	7.1	190	26.2	118
12737		0.28	2	0.031	2	59.6	12.7	0.3	366	0.57	1.02	10.8	9	430	21.4	106
12738		0.18	1.5	0.024	1.27	24.5	9.3	0.25	251	1.14	0.47	6.1	9.8	160	14.4	65.2
12739		0.08	0.8	0.029	1.11	21.3	5.5	0.07	294	0.67	0.16	3.1	8.3	150	20.2	49.8
12740		0.24	1	0.029	2.71	54.6	7.3	0.32	542	0.95	0.51	4.6	10.3	210	25.9	110
12741		0.32	0.8	0.055	2.58	56.6	8.2	0.58	780	0.53	0.44	6	8.3	230	26.4	116.5
12742		0.5	2	0.062	1.82	162	16	0.52	653	1.21	0.37	12.5	21	580	28.2	103.5
12743		0.2	0.8	0.033	2.73	31.1	4.9	0.33	481	0.62	0.39	3.9	7.4	190	24.3	120.5
12744		0.12	0.6	0.013	2.25	15	3.9	0.1	195	1.19	0.38	2.8	5.5	130	22.7	79.8
12745		0.17	1	0.019	2.69	28.6	5.1	0.33	400	0.47	0.7	3.5	12.2	190	21.9	102
12746		0.39	1.4	0.02	1.95	174	3.7	0.25	509	1.3	0.34	6	13.9	270	47.4	73.7
12747		0.22	1.4	0.022	1.86	78.6	6.8	0.45	402	0.58	0.39	5	21	180	17.9	81.4
12748		0.3	1.4	0.066	1.69	53.9	12.5	1.5	882	1.1	1.2	9.9	53.4	380	57.7	79.7
12749		0.49	2.3	0.09	2.55	154	7.6	1.55	1255	0.66	0.73	13.9	32.9	530	28.8	131.5
12750		0.23	0.9	0.035	2.64	44.5	5.8	0.51	697	1.28	0.6	4.9	14.6	210	25.4	120.5
12751		0.05	0.8	0.033	2.7	41.1	4.2	0.27	676	0.71	0.37	4.8	7.4	170	30.4	111.5



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Sample Description	Method Analyte Units LOR	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W
		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1	0.1
12718		0.002	0.01	0.09	10.5	2	1.5	44.9	0.77	0.06	46.9	0.877	0.19	1.4	99	2.6
12719		0.002	0.01	0.06	7.4	2	0.9	50.4	0.55	0.05	47.7	0.611	0.21	1.5	72	0.6
12720		0.002	<0.01	0.12	6.2	2	1.8	52.7	0.59	<0.05	36	0.525	0.27	1.3	55	2.1
12721		0.002	<0.01	0.08	12.7	2	2.4	68.5	0.71	0.05	36.6	0.58	0.3	1.2	97	0.7
12722		0.002	<0.01	0.06	7.7	2	1.9	46.1	0.48	<0.05	25.9	0.401	0.26	1	63	1.1
12723		0.002	<0.01	0.05	7.3	1	1.2	48.1	0.32	<0.05	10.1	0.276	0.28	0.7	39	0.3
12724		0.002	<0.01	<0.05	10	2	1.6	65.6	0.43	<0.05	18.3	0.326	0.29	1	59	0.5
12725		0.002	<0.01	0.08	7.7	2	1.2	54.1	0.29	<0.05	10.1	0.216	0.28	0.7	41	0.3
12726		0.002	0.01	0.29	16.6	2	2.9	66	0.72	0.09	26.6	0.497	0.42	1.8	101	1.7
12727		0.002	0.01	0.29	14	2	3	64.8	0.65	0.08	23.9	0.472	0.43	1.4	88	1.2
12728		0.002	<0.01	0.13	5.5	1	1.7	49.2	0.51	<0.05	40	0.374	0.47	1.7	41	3
12729		0.002	0.01	0.11	4.6	1	1.1	21.4	0.24	0.06	8.1	0.188	0.12	0.6	77	0.5
12730		<0.002	0.01	0.09	3.5	1	1.1	20.1	0.23	0.08	10.2	0.176	0.1	0.7	96	1.3
12731		0.002	0.01	0.15	5.7	1	1.6	39.4	0.37	0.06	20.3	0.271	0.24	1.3	72	0.6
12732		<0.002	0.01	0.09	4.5	1	0.9	21.9	0.27	0.06	12.5	0.216	0.17	0.8	83	1.5
12733		0.002	<0.01	0.12	9.8	1	1.2	42.8	0.47	0.05	23.2	0.372	0.35	1.5	61	0.7
12734		0.002	<0.01	0.07	5.1	1	1	79.1	0.41	<0.05	19.9	0.26	0.41	1.1	32	1.4
12735		0.002	<0.01	0.07	2.7	1	0.6	54.1	0.2	<0.05	6.7	0.097	0.32	0.5	16	0.2
12736		0.002	<0.01	0.11	4.2	1	1.1	79.6	0.29	<0.05	12.7	0.135	0.48	0.9	21	2.7
12737		0.002	<0.01	0.09	6.8	1	1.6	123.5	0.72	<0.05	28.2	0.335	0.43	1.5	37	0.4
12738		0.002	0.01	0.11	5.1	1	1.4	61.5	0.39	<0.05	10.3	0.217	0.26	1	32	2.1
12739		0.002	<0.01	0.47	8.8	1	0.9	39.7	0.21	<0.05	8.7	0.134	0.28	0.6	62	0.5
12740		0.002	<0.01	0.08	10.5	1	0.9	88.4	0.29	<0.05	26.6	0.216	0.45	1	46	1.7
12741		0.003	<0.01	0.07	19.7	2	0.9	91.4	0.37	0.08	36.6	0.326	0.48	1.1	68	0.4
12742		0.003	0.01	0.16	17.5	2	2.1	82.3	0.77	0.08	106	0.626	0.45	3.3	92	2.3
12743		0.002	<0.01	0.1	11.7	1	0.9	83	0.25	<0.05	16.7	0.186	0.51	0.7	46	0.4
12744		0.002	<0.01	0.1	3.2	1	0.7	57.1	0.17	<0.05	7.1	0.113	0.33	0.5	24	2.5
12745		0.002	<0.01	0.08	7.1	1	0.9	96.3	0.24	<0.05	13.9	0.226	0.42	0.7	42	0.4
12746		0.003	<0.01	0.11	7.1	2	1.2	60.9	0.42	<0.05	109	0.432	0.3	2.4	63	2.7
12747		0.002	<0.01	0.16	7.4	1	1.4	68.8	0.33	<0.05	43.4	0.285	0.33	1.1	52	0.6
12748		0.002	<0.01	0.09	25.2	2	3.4	154.5	0.61	0.07	27.2	0.493	0.34	1.1	148	2.3
12749		0.003	<0.01	0.09	32	3	2.8	98.9	0.85	0.12	93.3	0.655	0.53	3.4	157	0.8
12750		0.002	<0.01	0.09	13.1	1	1.3	97.4	0.31	<0.05	24.8	0.277	0.53	0.8	82	2.5
12751		0.002	0.01	0.11	9.8	<1	0.9	83	0.31	<0.05	24.3	0.23	0.57	0.8	51	<0.1



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		Y	Zn	Zr	Dy	Er	Eu	Gd	Ho	Lu	Nd	Pr	Sm	Tb	Tm
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	2	0.5	0.05	0.03	0.03	0.05	0.01	0.01	0.1	0.03	0.03	0.01	0.01
12718		23.9	34	47.3	4.5	2.3	1.08	8.78	0.8	0.3	62.7	19.25	10.5	1.03	0.31
12719		15.3	28	36.8	4.01	1.64	1.15	9.95	0.6	0.19	74.2	22.4	12.45	1.07	0.19
12720		20.3	29	58.1	4.03	1.95	1.17	7.77	0.72	0.24	49.8	14.9	9.03	0.95	0.25
12721		36.1	52	60.1	6.61	3.38	1.77	10.1	1.26	0.41	58.6	17.5	11.25	1.4	0.46
12722		25.8	32	50.9	4.5	2.48	1.16	6.68	0.89	0.34	36.8	9.84	7.26	0.95	0.36
12723		21.8	25	36.8	3.41	2.13	1.01	3.81	0.75	0.32	18.6	4.98	3.86	0.64	0.33
12724		29.1	34	53.1	4.56	2.87	1.27	5.46	1	0.41	28.2	7.57	5.62	0.87	0.42
12725		23	28	48.2	3.54	2.22	1.06	3.85	0.78	0.32	18.2	4.97	3.82	0.65	0.34
12726		24.2	55	81.5	4.24	2.27	1.35	6.46	0.82	0.31	38.7	10.6	7.3	0.9	0.33
12727		22.4	49	75.4	3.98	2.13	1.29	6.2	0.78	0.28	37.3	10.3	6.94	0.85	0.29
12728		20.9	24	79.4	4.05	1.94	1.21	8.31	0.69	0.23	58.6	17.9	9.98	0.98	0.24
12729		6.5	13	29	1.16	0.64	0.39	1.61	0.23	0.08	8.8	2.45	1.69	0.23	0.09
12730		5.5	9	27.3	1.11	0.54	0.36	1.92	0.19	0.07	11.4	3.23	2.19	0.25	0.08
12731		7.7	19	38.8	1.84	0.82	0.66	3.68	0.3	0.1	24.1	6.75	4.43	0.45	0.11
12732		5.4	15	35.3	1.26	0.62	0.45	2.23	0.23	0.08	14.3	4.01	2.6	0.28	0.09
12733		15.2	32	57.5	3.08	1.54	1.01	5.61	0.55	0.2	34.6	9.6	6.49	0.71	0.21
12734		14.6	23	50.1	2.75	1.4	1.06	4.83	0.51	0.18	32.1	8.91	5.63	0.62	0.2
12735		7.8	11	26	1.38	0.71	0.7	2.31	0.26	0.09	15	4.21	2.75	0.31	0.1
12736		10.5	15	37	2.16	1.11	0.97	3.71	0.4	0.16	24.1	6.75	4.37	0.49	0.16
12737		17.7	31	69.4	3.71	1.77	1.35	7.02	0.66	0.21	46.7	12.85	8.34	0.87	0.23
12738		9.4	19	49.7	1.84	0.95	0.73	2.96	0.34	0.12	18.5	5.19	3.45	0.4	0.14
12739		7	14	28.8	1.49	0.78	0.71	2.7	0.28	0.1	14.8	4.08	2.45	0.3	0.11
12740		18.9	24	34.6	3.28	2.04	1.2	4.88	0.69	0.3	33.2	9.73	5.37	0.65	0.31
12741		40.3	33	25	6.04	3.97	1.25	6.61	1.35	0.57	37.2	10.85	6.55	1.08	0.61
12742		32.9	55	64.5	6.69	3.23	1.75	15.25	1.14	0.39	113.5	35.6	18.6	1.67	0.41
12743		20.5	21	20.5	3.49	2.18	1.04	3.91	0.75	0.32	20.5	5.84	3.55	0.57	0.33
12744		5.7	11	17.7	1.14	0.61	0.58	1.91	0.21	0.09	11.5	3.27	1.99	0.23	0.08
12745		11.6	21	23.6	2.13	1.19	0.97	3.21	0.42	0.17	19	5.38	3.26	0.4	0.17
12746		19.5	20	33.7	5.09	2.06	1.22	14.2	0.74	0.23	105	33.6	15.5	1.28	0.24
12747		17.2	27	39.4	3.24	1.6	1	6.73	0.56	0.21	47.7	15.15	7.14	0.69	0.21
12748		28.6	58	29.4	5.11	2.65	1.33	8.1	0.96	0.35	44.2	12	8.2	1	0.37
12749		62.6	75	58.2	11.1	5.69	1.68	19.55	2.04	0.73	116	35.4	20.2	2.25	0.77
12750		23.1	30	24.4	3.71	2.16	1.11	4.98	0.76	0.31	28.5	8.15	4.76	0.65	0.32
12751		21.1	26	26.7	3.76	2.44	1.09	4.96	0.78	0.37	25.5	7.46	4.5	0.68	0.35



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Method	CERTIFICATE COMMENTS
ME-MS61r	REE's may not be totally soluble in this method.