



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

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Finalized Date: 26-NOV-2008  
Account: NUPRES

## CERTIFICATE AS08152922

Project: Strang ways

P.O. No.: 2008/14 (266177)

This report is for 104 Stream Sediment samples submitted to our lab in Alice Springs, NT, Australia on 24-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
PUL-QC	Pulverizing QC Test

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61r	48 element four acid ICP-MS + REEs	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu - Four Acid	VARIABLE
Au-TL44	Trace Level Au - 50 g AR	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 AS08152922

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt.	PUL-QC Pass75um %	Au-TL44 Au ppm	ME-MS61r Ag ppm	ME-MS61r Al %	ME-MS61r As ppm	ME-MS61r Ba ppm	ME-MS61r Be ppm	ME-MS61r Bi ppm	ME-MS61r Ca %	ME-MS61r Cd ppm	ME-MS61r Ce ppm	ME-MS61r Co ppm	ME-MS61r Cr ppm	ME-MS61r 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	0.05	5.18	<0.2	860	1.04	0.03	0.9	0.04	23.3	3.3	20	1.13
FLUSH B		<0.02		0.001	0.04	5.24	<0.2	850	1.06	0.05	0.96	0.04	25.5	3.4	11	1.17
FLUSH C		<0.02		0.001	0.05	5.32	0.2	890	1.04	0.03	0.91	0.03	22.4	3.4	13	1.09
12311		1.65		0.003	0.07	0.91	1.7	90	7.72	0.12	0.07	0.04	31.7	45.3	7	0.96
12312		1.31		0.017	12.4	0.35	0.7	10	0.17	58.1	8.87	1.07	1.92	1.2	4	0.45
12313		1.97		0.002	0.17	4.37	0.6	580	0.53	0.17	0.65	0.07	72.3	12.4	45	0.48
12314		0.90		0.003	0.31	9.19	<0.2	240	9.39	0.05	1.75	0.04	292	8.8	19	14
12315		2.43		0.001	0.12	4.03	<0.2	930	0.63	0.42	0.75	0.04	165	5.6	14	0.22
12316		1.97		0.001	0.07	4.76	<0.2	860	0.84	0.03	0.91	0.03	137	5.6	15	0.28
12317		1.68	94.9	0.001	0.11	5.33	1.2	410	1.41	0.29	2.48	0.06	143	14.1	97	5.93
12318		1.37		0.001	0.09	5.74	1.3	400	1.69	0.23	1.73	0.06	74.3	12.7	40	4.15
12319		2.26		0.001	0.07	4.9	0.9	590	1.04	0.18	1.95	0.05	119.5	13.7	62	2.47
12320		2.02		0.001	0.09	4.65	1	370	1.27	0.44	1.98	0.07	124.5	11	47	6.33
12321		2.34		0.001	0.06	4.97	0.2	640	0.97	0.19	2.02	0.06	97.3	13.8	58	1.83
12322		2.46		0.001	0.07	5.19	<0.2	420	1.21	0.18	2.09	0.06	75.7	7.2	31	3.25
12323		2.13		0.001	0.05	4.45	0.5	440	1.09	0.09	0.9	0.05	72.7	8.2	36	1
12324		2.22		0.001	0.05	4.15	0.3	600	0.87	0.13	1.25	0.06	127.5	11	64	0.85
12325		3.08		0.001	0.19	3.35	0.8	410	0.51	0.1	0.73	0.05	>500	30.1	271	0.88
12326		2.10		0.001	0.13	4.43	0.8	620	0.77	0.15	1.12	0.05	275	16.6	111	0.76
12327		2.25		0.001	0.06	4.61	<0.2	570	0.78	0.11	2	0.05	120.5	9.5	56	1.2
12328		2.49		0.001	0.13	3.83	0.6	550	0.77	0.07	0.74	0.08	430	17.8	110	0.69
12329		1.77		0.001	0.07	4.33	<0.2	390	1.36	0.05	1.4	0.05	77.5	12.9	46	0.47
12330		2.02		0.001	0.05	4.28	<0.2	700	0.84	0.14	1.18	0.04	68.3	8.8	47	1.11
12331		1.95		0.001	0.08	4.76	1.2	620	0.83	0.17	1.5	0.06	130.5	13.7	111	2.01
12332		2.04		0.001	0.07	6.67	0.6	530	1.47	0.11	1.45	0.05	113	16.8	88	2.67
12333		2.13		0.001	0.06	4.72	0.4	560	1.5	0.11	0.48	0.05	137.5	12.5	68	2.54
12334		1.94		0.001	0.05	4.32	<0.2	470	0.68	0.06	0.87	0.07	67	13.7	46	1.39
12335		1.48		0.002	0.1	5.22	1.6	290	1.15	1	2.98	0.05	113	13.5	53	0.61
12336		1.78		0.001	0.09	4.2	<0.2	550	0.66	0.08	1.15	0.05	92.1	12.4	61	0.6
12337		1.96		0.001	0.11	4.31	0.3	550	0.68	0.07	0.8	0.1	172.5	16.5	90	0.51
12338		1.75		0.001	0.09	3.98	0.3	640	0.88	0.08	0.72	0.1	93.2	9.8	51	0.58
12339		1.71		0.001	0.11	4.6	0.5	490	0.84	0.1	1.21	0.07	184	20.1	119	1.44
12340		2.01		0.001	0.11	4.12	0.2	530	0.59	0.07	0.86	0.06	199.5	18	122	0.74
12341		1.93		0.001	0.06	4.88	0.5	700	0.57	0.03	0.55	0.04	92.9	7.2	33	1.3
12342		1.80		0.001	0.07	5.92	0.5	460	1.14	0.37	1.98	0.08	110	23.7	143	2.68
12343		2.12		0.001	0.06	4.62	0.8	590	0.64	0.08	0.93	0.05	146.5	15.2	108	0.94
12344		1.97		0.001	0.12	5.11	0.5	490	0.59	0.11	1.11	0.07	235	23.2	178	0.97
12345		1.62		0.001	0.09	5.42	0.4	610	0.68	0.1	0.98	0.06	176	20.1	139	1.33
12346		2.11		0.002	0.09	4.76	0.2	700	0.61	0.06	0.8	0.06	138.5	13.8	95	0.74
12347		2.26		0.001	0.17	4.23	0.3	460	0.63	0.08	0.78	0.07	445	26.2	221	0.75



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## CERTIFICATE OF ANALYSIS AS08152922

Sample Description	Method Analyte Units LOR	ME-MS61r Cu ppm	ME-MS61r Fe %	ME-MS61r Ga ppm	ME-MS61r Ge ppm	ME-MS61r Hf ppm	ME-MS61r In ppm	ME-MS61r K %	ME-MS61r La ppm	ME-MS61r Li ppm	ME-MS61r Mg %	ME-MS61r Mn ppm	ME-MS61r Mo ppm	ME-MS61r Na %	ME-MS61r Nb ppm	ME-MS61r Ni 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
FLUSH A		7.9	1.12	11.3	0.15	1	0.015	2.81	13.2	5.7	0.23	175	0.83	1.24	2	12
FLUSH B		6.4	0.98	11.7	0.13	1.1	0.016	2.8	14.2	5.8	0.25	165	0.28	1.26	2.1	7.7
FLUSH C		6.5	1.08	11.25	0.11	1	0.013	2.93	12.8	5.4	0.23	186	0.36	1.26	1.9	8.7
12311		3.9	40	2.94	0.51	0.4	0.012	0.4	14.9	3.5	0.58	21000	1.21	0.01	1.4	50
12312		>10000	1.04	1.23	0.05	<0.1	0.02	0.13	0.8	1.1	0.07	1010	1.06	0.03	0.3	5.2
12313		34.7	4.48	11.65	0.15	1.4	0.071	2.05	35.7	5.3	0.66	646	0.62	0.48	9.1	15.6
12314		6.7	4.72	39.4	0.34	10.3	0.137	1.84	144.5	15.8	0.73	1140	0.49	3.44	74.2	10
12315		118.5	2.35	12.15	0.23	2.8	0.057	2.02	82.5	2.2	0.34	277	0.32	0.88	6.8	6
12316		8	1.8	13.2	0.22	2.8	0.034	2.81	72.7	2.4	0.3	227	0.33	1.05	4.1	7.8
12317		22	6.96	16.45	0.22	1.5	0.066	2.34	67.1	15.5	0.82	1510	0.76	0.16	11.9	22.1
12318		36	3.62	14.95	0.17	1.5	0.054	2.15	37	20.4	0.98	504	0.61	0.41	7.8	21.3
12319		15.4	5.56	15.2	0.2	1.4	0.078	2.26	59.6	9.6	0.88	962	0.48	0.46	9.1	20.3
12320		19.3	3.51	13.65	0.21	1.4	0.056	2.62	58.9	19.8	0.75	850	0.89	0.22	8.4	19.1
12321		15.4	5.13	16.15	0.19	1.4	0.073	2.24	49.1	7.5	0.88	801	0.25	0.58	8.2	20.8
12322		16.2	3.51	14.7	0.18	2	0.072	2.55	35.8	12.5	0.71	796	0.33	0.24	7.9	11.5
12323		12.6	3.89	12.45	0.17	1.5	0.085	2.12	34.6	7.4	0.83	851	0.83	0.45	6	11.7
12324		13.2	5.43	14.25	0.2	1.4	0.077	1.85	63.8	5.2	0.69	740	0.29	0.48	8.4	16.9
12325		21.6	20.5	30.2	0.61	1.1	0.212	1.17	362	4.2	0.52	1430	0.45	0.16	28.3	54.6
12326		22	8.77	18.5	0.3	1.8	0.113	1.61	136	4.9	0.86	947	0.94	0.57	15.6	26.2
12327		14.1	4.61	14.6	0.18	1	0.056	2.21	56.7	6.6	0.57	630	0.41	0.34	8.3	14.9
12328		23.8	10.25	18.4	0.43	2.8	0.117	1.75	193.5	5.5	0.68	1140	0.59	0.44	21	15.9
12329		21.6	4.33	12.85	0.15	2.3	0.053	1.32	35.8	6.8	0.79	550	0.63	0.92	9.9	15.2
12330		16.3	3.95	11.7	0.15	1.6	0.054	2.18	31.3	6.8	0.6	926	0.18	0.44	7.7	13
12331		17.7	8.31	17.5	0.21	1.1	0.077	2.33	61.7	8.3	0.49	1360	0.27	0.21	11.4	23.9
12332		22.2	6.53	20.4	0.19	0.9	0.075	2.47	56.7	13.1	1.18	773	0.39	0.26	9.1	30
12333		18.9	5.46	17.6	0.21	1.1	0.085	2.47	65.6	11	0.87	538	0.33	0.2	7.8	24.7
12334		18	5.25	11.95	0.16	1	0.064	2.39	32.1	8.7	0.87	731	0.33	0.32	7.2	15.7
12335		16.7	7.67	15.65	0.21	1.8	0.271	1.32	50.8	6	1.69	1270	1.48	0.48	14.2	13.8
12336		19.8	5.35	12.1	0.17	1.6	0.088	1.72	44.4	5.1	1.05	686	0.64	0.61	11.8	19.4
12337		23.9	7.58	14.95	0.24	1.8	0.103	2.09	81.1	5.9	1.05	1040	0.39	0.33	17.1	18.5
12338		23	4.09	12.95	0.19	2.7	0.082	2.4	44.2	5.8	0.69	563	0.86	0.39	10.3	13.5
12339		20.1	9.08	20.7	0.28	1.8	0.128	1.92	89.4	8.6	1.12	1090	0.67	0.33	17	31.3
12340		20.5	8.99	19.8	0.26	1.8	0.121	2.05	95.7	5.7	0.83	926	0.34	0.35	17.2	27.3
12341		12.4	2.88	13.1	0.18	1.1	0.048	3.38	46.5	10.3	0.34	377	0.67	0.59	11.6	9.8
12342		33.6	8.71	21.1	0.22	0.9	0.084	2.06	52.5	12.9	1.54	1090	0.63	0.19	10.6	45.4
12343		17.8	7.25	17.25	0.21	1.4	0.096	2.32	72.9	5.9	0.78	808	0.43	0.37	12.8	28.1
12344		23.8	11.5	24	0.29	1.2	0.127	2.04	115	6.3	1.01	1160	0.57	0.29	18.5	37.7
12345		23.6	9.19	20.3	0.25	0.9	0.098	2.7	88	7.6	0.98	935	0.58	0.32	13.2	35.6
12346		17.4	7.33	16.75	0.21	2	0.098	2.47	69	4.9	0.72	746	0.36	0.46	13.2	23.3
12347		21.2	14.6	29.6	0.47	2.8	0.183	1.68	229	4.8	0.74	1250	0.71	0.33	31.6	45.4



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		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	23.1	116	0.002	<0.01	0.08	3.8	1	0.7	206	0.16	<0.05	5.4	0.059
FLUSH B		120	22.2	117	<0.002	0.02	<0.05	4.2	1	0.7	209	0.16	<0.05	5.9	0.065
FLUSH C		120	22.2	114	<0.002	<0.01	0.05	3.8	1	0.7	212	0.15	<0.05	5.4	0.062
12311		930	2.4	15.6	<0.002	0.05	0.41	2.7	2	0.4	41	0.11	<0.05	1.1	0.05
12312		60	18.2	7.4	<0.002	0.21	1.04	1.4	1	0.5	6	<0.05	0.08	0.9	0.008
12313		270	14.6	76.2	0.002	<0.01	0.08	14.8	2	2.2	53.8	0.55	<0.05	15.9	0.459
12314		340	30.7	277	0.002	0.01	<0.05	16	2	19.4	74.9	7.34	<0.05	111.5	0.275
12315		190	18	52.8	0.002	<0.01	<0.05	7.8	2	2	66.9	0.46	<0.05	46.9	0.207
12316		160	23.4	90.6	0.002	<0.01	0.05	6.4	1	1.5	78.5	0.3	<0.05	52.8	0.197
12317		280	23.6	130	0.002	<0.01	1.58	18.2	2	4.4	43.2	1.08	<0.05	31.1	0.434
12318		380	16.7	119	<0.002	0.01	0.4	13.4	1	2.8	58.7	0.62	<0.05	16.8	0.278
12319		250	17.5	102	0.002	<0.01	0.37	17.5	1	4	64.8	0.71	<0.05	26.3	0.433
12320		290	24.5	169.5	<0.002	<0.01	0.81	16.1	1	3.1	41.6	0.72	<0.05	27.5	0.207
12321		210	16.3	96.1	0.002	<0.01	0.19	16.4	1	3.4	83.1	0.63	<0.05	19.9	0.403
12322		220	19	131.5	<0.002	<0.01	0.42	14.1	1	2.9	64.6	0.65	<0.05	15	0.227
12323		210	13.9	86	0.002	<0.01	0.12	15.6	2	2.8	37.7	0.45	<0.05	16.2	0.207
12324		200	16.8	73.9	0.002	<0.01	0.1	14.9	1	3.4	75.7	0.61	<0.05	27.7	0.422
12325		480	21.5	44.3	0.002	<0.01	0.16	28	3	17.4	43.1	2.16	<0.05	155	1.9
12326		280	14.9	66.4	0.002	<0.01	0.16	20.7	2	7	67.9	1.16	<0.05	58.6	0.855
12327		190	16.8	86	<0.002	<0.01	0.1	11.3	1	2.6	134	0.57	<0.05	21.4	0.358
12328		420	19	58.1	0.002	<0.01	0.07	20.3	4	5.3	41.6	1.66	<0.05	114	1.805
12329		230	9.9	43.1	0.002	<0.01	0.06	14.6	1	2.3	56.1	0.86	<0.05	19.4	0.654
12330		190	16	88.1	<0.002	<0.01	0.13	10.2	1	2.8	48.5	0.53	<0.05	17.1	0.362
12331		210	21.1	110.5	<0.002	<0.01	0.37	15.9	1	6.1	55.2	0.87	<0.05	25.5	0.694
12332		200	18.3	122.5	0.002	<0.01	0.2	17.1	1	3.7	73.8	0.61	<0.05	22.4	0.432
12333		220	21.5	125.5	0.002	<0.01	0.11	13.6	1	4.1	39.2	0.52	<0.05	30.4	0.293
12334		240	16.3	116.5	0.002	<0.01	0.2	18.5	1	2	40	0.54	<0.05	16.9	0.409
12335		270	6.8	65.9	0.002	<0.01	0.23	24.5	2	5.5	40.8	1.03	<0.05	29.6	0.441
12336		250	13.8	55.8	0.002	<0.01	0.11	15.9	2	2.9	47.4	0.76	<0.05	21.9	0.548
12337		310	24.9	77.9	0.002	<0.01	0.08	22.9	2	2.9	38	1.08	<0.05	43.6	0.882
12338		230	32.5	87.5	0.002	0.01	0.08	12.9	2	2.4	41	0.59	<0.05	20.9	0.383
12339		360	16.8	89.1	<0.002	0.01	0.15	22.5	2	4.7	56.3	1.11	<0.05	42.4	0.817
12340		300	17.4	82.4	0.002	<0.01	0.08	20.1	2	5	53.6	1.16	<0.05	46	0.891
12341		240	24.5	186	0.002	<0.01	0.09	10.8	1	1.7	62.5	0.77	<0.05	28	0.353
12342		180	20.5	106	0.002	<0.01	0.25	22.4	1	3.9	57.5	0.7	<0.05	20.7	0.574
12343		260	17.9	90.6	0.002	<0.01	0.12	17.7	2	4.4	67.4	0.84	<0.05	31.6	0.674
12344		310	17.4	89.9	<0.002	<0.01	0.17	26.6	2	6.9	64.2	1.18	<0.05	53.3	1.055
12345		310	18.3	116.5	0.002	<0.01	0.16	21.4	2	5.4	80	0.82	<0.05	39.5	0.772
12346		280	20.2	84.8	0.002	<0.01	0.07	16.3	2	4.2	62.6	0.86	<0.05	32.1	0.675
12347		440	22.5	70.1	0.002	<0.01	0.08	26.9	3	9.3	53.6	2.03	<0.05	115	1.535



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## CERTIFICATE OF ANALYSIS AS08152922

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
		U	V	W	Y	Zn	Zr	Dy	Er	Eu	Gd	Ho	Lu	Nd	Pr	Sm
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5	0.05	0.03	0.03	0.05	0.01	0.01	0.1	0.03	0.03
FLUSH A		0.8	17	1.5	6.6	13	34.9	1.28	0.69	0.84	1.76	0.25	0.11	9.3	2.7	1.71
FLUSH B		0.8	18	0.3	6.7	13	39.8	1.3	0.67	0.84	1.84	0.24	0.1	10.1	2.87	1.83
FLUSH C		0.7	18	0.2	6.6	12	35.7	1.24	0.65	0.81	1.7	0.23	0.1	9	2.55	1.64
12311		4.2	11	0.7	26.5	50	12.3	3.26	2.58	0.62	2.88	0.81	0.41	11.6	2.95	2.4
12312		0.3	6	0.7	7.7	8	0.6	1.25	0.98	0.26	0.78	0.32	0.13	1.4	0.29	0.52
12313		0.8	100	0.7	44.1	48	45.9	7.75	5.21	1.58	7.35	1.72	0.78	31.6	8.58	6.55
12314		9.9	22	1.2	34.7	81	315	9.95	3.29	1.45	20	1.41	0.37	98	29	20.6
12315		2.1	46	0.4	43	23	93.7	9.37	4.5	1.77	14.1	1.68	0.58	62.2	17.3	13.25
12316		3.1	38	0.3	26.3	19	94.3	6.49	2.76	1.45	9.71	1.13	0.31	49	14.5	9.16
12317		3.1	114	2.8	37.9	77	47.3	7.72	4.2	1.5	10.4	1.47	0.55	54.5	15.55	10.2
12318		1.9	61	1.2	21.4	57	51.3	4.55	2.35	1.22	6.03	0.84	0.31	30.4	8.52	6
12319		1.7	99	1	36.4	62	46.4	6.96	4.27	1.38	8.72	1.48	0.65	47.1	13.4	8.49
12320		3.3	54	3.6	33.1	46	49	7.26	3.58	1.35	9.87	1.3	0.5	49.8	13.9	10.1
12321		1.3	98	0.7	27.6	55	48.4	5.35	3.11	1.29	6.88	1.09	0.47	38.6	11	6.79
12322		2.1	46	1	30.3	40	72.8	5.45	3.37	1.24	6.12	1.14	0.52	29.7	8.26	5.83
12323		1.6	46	2.2	47.6	43	50.3	7.92	5.35	1.3	6.96	1.81	0.83	30.4	8.33	6.27
12324		1.3	97	0.7	35.8	46	50.9	6.95	4.1	1.47	9.03	1.39	0.57	49.9	14.2	8.68
12325		2.3	451	1.1	71.9	186	32.2	19.95	8.93	3.83	42.7	3.15	1	306	86.1	47.4
12326		1.7	157	2.7	53.2	76	63.5	11.35	6.24	2.2	17.75	2.16	0.88	104	29.5	17.8
12327		1.2	85	0.8	22	39	30.6	4.8	2.47	1.22	7.27	0.88	0.32	42.8	12.55	7.18
12328		5.9	398	6.5	98.7	82	102.5	21.2	10.1	2.21	32.6	3.72	1.28	165.5	45.1	32.6
12329		1.5	134	2.2	32.3	35	79.2	6.59	3.65	1.21	7.49	1.29	0.52	33.1	9.03	7.16
12330		1.2	65	0.7	16.3	41	55.6	3.81	1.83	1.03	5.34	0.68	0.24	27	7.43	5.37
12331		1.3	142	1	26.8	76	36.9	5.95	2.99	1.5	9.33	1.07	0.38	50.8	14.4	9.58
12332		1.2	112	1.2	22.7	82	27	5.41	2.58	1.59	8.51	0.96	0.34	48.4	13.75	8.81
12333		1.7	78	0.9	26.9	80	37	6.4	2.92	1.74	10.3	1.1	0.39	55.2	15.5	10.6
12334		0.9	117	0.6	34.5	53	31.7	6.43	4.05	1.16	6.27	1.41	0.59	28.7	8.06	5.82
12335		2	66	3.1	84.4	40	58.5	13.65	10.15	1.36	10.8	3.26	1.59	48.6	13.05	9.85
12336		1.4	108	0.8	43.1	71	56.6	8.28	5.05	1.52	9.09	1.77	0.74	41.6	11.2	8.57
12337		1.6	192	0.8	63.4	142	62.4	11.8	7.09	1.68	14.25	2.43	1.03	70.1	19.4	13.4
12338		1.5	81	1.8	41.1	112	102	7.62	4.6	1.81	8.83	1.56	0.67	40.5	10.7	8.44
12339		1.6	190	1.3	55.8	116	61.5	11.2	6.22	1.9	14.8	2.19	0.89	75.8	21.5	14.85
12340		1.6	205	0.9	52.4	114	62.5	10.9	5.88	1.86	15.25	2.08	0.82	80.7	22.8	15.2
12341		1	42	1.3	27.8	40	35.2	5.29	3.13	1.34	6.59	1.09	0.44	36.1	10.5	6.38
12342		1.1	167	2.1	24.4	111	28.5	5.33	2.71	1.46	7.88	0.99	0.35	43.8	12.4	8.09
12343		1.1	154	1.3	35.9	93	44	7.75	4.22	1.7	10.7	1.5	0.58	58.7	16.6	10.85
12344		1.2	252	1.7	52.9	131	38.1	11.25	6.36	1.97	16.4	2.17	0.89	91.2	25.9	16.25
12345		1	189	1.4	37.7	106	27.6	8.11	4.37	1.84	12.15	1.54	0.61	69.1	19.65	12.3
12346		1.3	148	0.8	34.9	97	65.1	7.68	4.07	1.71	10.9	1.43	0.58	57.2	16.2	10.85
12347		3.2	335	3	78.9	185	90	19.55	8.79	2.9	34.2	3.29	1.04	202	55.9	36



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## CERTIFICATE OF ANALYSIS AS08152922

Sample Description	Method Analyte Units LOR	ME-MS61r	ME-MS61r	ME-MS61r	Cu-OG62
		Tb	Tm	Yb	Cu
		ppm	ppm	ppm	%
		0.01	0.01	0.03	0.001
FLUSH A		0.25	0.09	0.61	
FLUSH B		0.26	0.09	0.58	
FLUSH C		0.24	0.09	0.58	
12311		0.52	0.38	2.32	
12312		0.18	0.14	0.91	2.24
12313		1.32	0.78	5.01	
12314		2.51	0.36	2.23	
12315		2.04	0.59	3.62	
12316		1.34	0.35	2.02	
12317		1.51	0.56	3.6	
12318		0.91	0.31	1.92	
12319		1.28	0.63	4.08	
12320		1.48	0.5	3.15	
12321		1	0.44	2.86	
12322		0.99	0.5	3.29	
12323		1.28	0.82	5.17	
12324		1.29	0.57	3.67	
12325		4.79	1.05	6.35	
12326		2.34	0.86	5.46	
12327		0.98	0.33	1.98	
12328		4.64	1.33	8.2	
12329		1.21	0.52	3.24	
12330		0.78	0.24	1.46	
12331		1.26	0.38	2.35	
12332		1.15	0.35	2.15	
12333		1.42	0.37	2.32	
12334		1.11	0.59	3.63	
12335		2.03	1.57	9.84	
12336		1.49	0.74	4.59	
12337		2.17	1.02	6.43	
12338		1.4	0.67	4.24	
12339		2.24	0.89	5.61	
12340		2.14	0.8	5.13	
12341		0.97	0.45	2.74	
12342		1.11	0.36	2.2	
12343		1.54	0.58	3.69	
12344		2.25	0.89	5.54	
12345		1.61	0.6	3.85	
12346		1.55	0.57	3.63	
12347		4.44	1.08	6.55	



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## CERTIFICATE OF ANALYSIS AS08152922

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt.	PUL-QC Pass75um %	Au-TL44 Au ppm	ME-MS61r Ag ppm	ME-MS61r Al %	ME-MS61r As ppm	ME-MS61r Ba ppm	ME-MS61r Be ppm	ME-MS61r Bi ppm	ME-MS61r Ca %	ME-MS61r Cd ppm	ME-MS61r Ce ppm	ME-MS61r Co ppm	ME-MS61r Cr ppm	ME-MS61r 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
12348		1.80		0.001	0.08	4.45	0.4	680	0.87	0.07	0.81	0.06	113.5	11.4	53	0.75
12349		2.17		0.001	0.1	4.88	0.2	600	0.76	0.1	0.86	0.07	196	18.6	123	1.06
12350		2.11		0.001	0.07	3.74	0.4	520	0.73	0.05	1.02	0.07	137.5	10.8	41	0.29
12351		2.26		<0.001	0.1	3.74	0.2	620	0.78	0.09	0.81	0.07	185.5	10	34	0.27
12352		1.91		<0.001	0.06	3.76	<0.2	410	0.83	0.03	1.28	0.04	71.5	10.6	31	0.21
12353		2.06		0.001	0.06	3.43	0.7	750	0.79	0.05	0.58	0.06	112.5	5.9	25	0.27
12354		1.97		<0.001	0.06	4.02	0.2	780	0.46	0.02	0.69	0.06	113.5	5.5	21	0.19
12355		1.59		<0.001	0.05	4.23	<0.2	820	0.66	0.13	0.67	0.04	133	3.9	14	0.25
12356		1.83		<0.001	0.04	4.09	<0.2	990	0.53	0.03	0.71	0.04	85.2	3.6	20	0.25
12357		1.81	92.7	0.001	0.04	5.12	<0.2	1000	0.74	0.03	0.98	0.04	44.2	4.2	16	0.27
12358		2.01		0.001	0.04	3.89	<0.2	860	0.53	0.04	0.6	0.05	92.3	3.8	12	0.21
12359		1.87		<0.001	0.03	5.23	<0.2	1010	0.85	0.03	1.01	0.04	94.3	5.9	23	0.34
12360		2.15		<0.001	0.05	4.89	0.2	900	1.01	0.03	1.29	0.06	67.9	8.5	19	0.23
12361		1.94		0.001	0.06	3.8	0.4	430	0.88	0.05	0.88	0.05	223	8.9	42	0.19
12362		2.11		<0.001	0.05	4.99	0.2	780	1.07	0.06	1.27	0.05	93.7	8.6	31	0.41
12363		2.14		<0.001	0.09	4.01	0.5	550	0.76	0.1	0.95	0.05	>500	12.6	78	0.19
12364		2.10		<0.001	0.06	4.87	<0.2	290	1.02	0.03	1.46	0.05	150	7.2	23	0.19
12365		2.05		0.001	0.14	3.75	0.5	500	0.77	0.04	0.78	0.03	>500	6.4	25	0.23
12366		1.81		<0.001	0.06	4.14	0.5	610	0.94	0.03	0.85	0.04	132.5	4.5	22	0.23
12367		0.43		0.002	0.09	4.63	0.7	380	0.88	0.05	1.33	0.04	292	8.9	36	0.18
12368		2.02		0.001	0.08	5.03	0.4	400	1.13	0.08	1.41	0.04	204	12.7	65	0.5
12369		2.41		0.001	0.11	4.72	0.2	340	1.18	0.06	1.06	0.05	460	11.8	46	0.54
12501		1.71		0.001	0.07	4.34	0.6	320	1.18	0.14	1.7	0.09	125.5	17.6	61	0.43
12502		1.65		0.001	0.05	4.37	<0.2	440	1.57	0.07	1.2	0.04	58.4	9.4	21	0.49
12503		1.30		0.001	0.1	5.09	<0.2	730	2.02	0.05	1.17	0.06	54.7	5.2	25	0.42
12504		1.82		0.001	0.08	5.1	0.3	400	1.23	0.35	2.16	0.09	74.8	16.4	52	0.54
12505		1.66		0.001	0.08	4.9	0.5	220	1.21	0.2	2.28	0.07	95.4	16.4	81	0.3
12506		1.32		0.001	0.09	4.69	0.3	220	0.98	0.14	2.44	0.08	94.7	21.3	117	0.22
12507		2.46		0.002	0.15	4.96	0.2	220	0.94	0.04	2.86	0.05	76.5	24.6	144	0.17
12508		2.09		<0.001	0.11	4.22	<0.2	180	1.1	0.03	2.03	0.04	54.8	16.7	59	0.12
12509		2.27		0.001	0.07	5.07	0.7	520	1.23	0.05	1.64	0.06	71.8	16.4	72	0.57
12510		1.12		0.002	0.07	6.08	0.9	390	1.53	0.11	1.54	0.05	116.5	17.8	47	1.32
12511		2.25		0.001	0.04	4.26	0.2	340	1.18	0.05	1.27	0.04	81.4	7.5	28	0.32
12512		1.94		0.001	0.03	3.33	0.4	530	0.87	0.04	5.23	0.04	53.7	7.7	20	0.43
12513		1.99		0.001	0.04	4.83	<0.2	500	1.06	0.09	1.38	0.04	62	10	32	1.08
12514		1.97		0.001	0.04	5.25	0.3	500	0.98	0.11	1.45	0.06	242	13.3	43	1.67
12515		2.01		0.001	0.04	4.85	0.5	550	1.06	0.09	1.2	0.07	80.5	14.1	35	1.55
12516		1.42		0.001	0.05	4.09	<0.2	480	0.87	0.08	2.45	0.05	46.5	8.6	25	1.68
12517		2.51		0.001	0.03	4.29	0.4	560	0.69	0.07	0.73	0.03	58.2	11.5	48	2.86
12518		1.20		0.001	0.04	4.84	0.7	530	0.82	0.08	0.97	0.07	106.5	10.2	46	1.64



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## CERTIFICATE OF ANALYSIS AS08152922

Sample Description	Method Analyte Units LOR	ME-MS61r Cu ppm 0.2	ME-MS61r Fe % 0.01	ME-MS61r Ga ppm 0.05	ME-MS61r Ge ppm 0.05	ME-MS61r Hf ppm 0.1	ME-MS61r In ppm 0.005	ME-MS61r K % 0.01	ME-MS61r La ppm 0.5	ME-MS61r Li ppm 0.2	ME-MS61r Mg % 0.01	ME-MS61r Mn ppm 5	ME-MS61r Mo ppm 0.05	ME-MS61r Na % 0.01	ME-MS61r Nb ppm 0.1	ME-MS61r Ni ppm 0.2
12348		20.9	4.76	14.45	0.19	2.1	0.082	2.31	55.4	5.6	0.73	562	0.64	0.48	10.8	18.3
12349		21.8	8.41	21.2	0.27	1.5	0.12	2.25	96	5.7	0.83	935	0.36	0.29	14.8	33
12350		22.2	4.48	12.9	0.21	3.4	0.094	1.56	66.8	4.3	0.76	570	0.75	0.65	13.9	11.1
12351		20.9	4.44	13.95	0.25	3.4	0.104	1.75	89.2	4.1	0.67	544	0.32	0.63	16.4	9.7
12352		14.4	4	12.15	0.16	2.7	0.084	1.15	33.9	4.4	0.77	472	0.37	0.83	11.9	11.2
12353		12.8	3.08	11.05	0.18	2.9	0.095	1.74	55	3.7	0.45	425	0.91	0.55	10.3	6.6
12354		9.9	2.6	11.35	0.19	2.8	0.054	2.44	58.3	2.7	0.34	340	0.53	0.79	8.6	7.4
12355		6.7	1.72	11.45	0.21	2.7	0.043	2.67	67.6	2.5	0.29	281	0.37	0.84	5	5.9
12356		7.2	1.46	9.4	0.18	2.1	0.03	2.54	45.1	2.4	0.21	222	0.75	0.82	3.5	6.2
12357		6.5	1.56	10.95	0.16	2.3	0.028	3.17	24.3	2.1	0.3	207	0.47	1.11	2.7	7.4
12358		6.6	1.71	10.5	0.2	2.8	0.044	2.26	47.6	2.5	0.28	233	0.37	0.82	5.1	5.5
12359		7.8	1.85	13.3	0.2	2.9	0.034	2.9	50.4	2.5	0.33	251	0.66	1.15	4	9.2
12360		12.8	2.7	13.25	0.18	2.9	0.058	1.75	34.7	2.3	0.47	397	0.4	1.22	4.7	10
12361		12	4.7	13.2	0.29	4	0.128	0.87	111	2.5	0.69	510	0.4	0.91	11	9.4
12362		11.5	3.24	12.45	0.18	2.6	0.067	1.71	46.3	3.5	0.57	489	0.56	1.04	6.2	10.5
12363		16	8.26	18.3	0.68	4.4	0.162	0.94	420	2.2	0.92	918	0.5	0.74	15.5	11.7
12364		7.6	3.48	13.25	0.21	4.1	0.069	0.58	73.3	2.2	0.65	363	0.19	1.59	11.9	7.2
12365		11.3	4.94	15.6	0.61	8.8	0.091	0.82	398	2.8	0.44	402	0.54	1.01	20.1	6.2
12366		8.8	2.76	12.3	0.21	3.3	0.048	0.95	68.4	3	0.36	220	0.86	1.21	8.8	6.3
12367		15.6	5.09	14.5	0.33	4.9	0.106	0.72	147	2.3	0.77	506	1.08	1.39	15.7	12.3
12368		16.9	6.3	15.2	0.27	4.3	0.146	0.98	101.5	3.4	1.13	621	0.81	1.25	15.8	15.8
12369		15.3	5.36	18.5	0.49	5.6	0.131	0.86	238	3.7	0.81	483	0.33	1.3	20.2	13.3
12501		20.2	6.71	13.35	0.2	2.4	0.137	0.89	62.4	3.3	1.61	977	0.69	0.76	10.9	18.5
12502		10.3	3.33	13.35	0.15	2.7	0.083	1.31	26.5	3.1	0.87	453	0.27	1.07	8.7	10
12503		10.7	2.44	15.25	0.26	7.7	0.068	2.25	27.6	2.8	0.34	275	1.19	1.42	15.4	9.6
12504		16.4	5.65	13.3	0.17	2.5	0.113	1.17	37.5	3.8	1.4	1090	0.24	1.01	9.9	19.5
12505		21.8	5.76	14.05	0.18	2.2	0.096	0.65	46	3.1	1.6	755	0.69	1.14	13.1	24.8
12506		24.6	7.58	14.8	0.19	2	0.101	0.64	46.4	2.6	1.71	848	0.38	1.11	22.2	31
12507		21.3	9.76	15.05	0.17	3.9	0.119	0.55	37.4	2.5	1.66	883	0.73	1.37	49.7	33.3
12508		17.2	5.33	13.05	0.14	2.3	0.075	0.5	25.1	1.9	0.97	512	0.2	1.35	20.9	20.1
12509		20.5	4.72	14.55	0.16	3.2	0.074	1.31	32.7	4.2	0.66	601	0.61	1.16	15.9	19.8
12510		31.7	5.13	17.65	0.19	3.2	0.103	0.97	56.7	7.9	0.94	635	0.6	0.81	17.1	21.4
12511		11.3	2.7	12.3	0.15	2.8	0.051	0.7	40.6	3.1	0.47	284	0.91	1.32	7.5	10.2
12512		10.2	2.03	8.3	0.15	1.7	0.034	1.24	27.1	2.7	2.69	241	0.21	0.61	4.8	11
12513		12.3	2.72	11.55	0.15	2.4	0.04	1.72	29.1	4.2	0.76	388	0.52	1.05	4.9	13.9
12514		15.6	3.33	13.6	0.26	2.4	0.051	1.71	114.5	5.6	0.77	643	0.19	0.9	6.5	19.7
12515		16	3.78	12.4	0.15	2.4	0.047	1.77	34.9	5.3	0.73	700	0.48	0.82	6.6	15.6
12516		13.8	2.43	10.45	0.16	2.2	0.038	1.88	22	4.9	1.34	302	0.28	0.63	5.8	14.6
12517		15.3	3.37	10.45	0.15	1.5	0.042	2.24	26.9	6.7	0.9	523	0.44	0.42	7.1	17.4
12518		16.1	3.72	10.45	0.17	2.1	0.038	1.92	53.1	7.5	0.67	710	0.39	0.5	7	15.1





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## CERTIFICATE OF ANALYSIS AS08152922

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
		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
12348		270	19.9	89.4	0.002	<0.01	0.1	14.4	2	3.1	71	0.66	<0.05	25.1	0.439
12349		290	21.5	100.5	0.002	<0.01	0.09	21.5	2	5.6	72.1	0.92	<0.05	43.4	0.702
12350		250	16	52.3	0.002	<0.01	0.06	14.1	2	2.6	56.6	0.93	<0.05	32.2	0.575
12351		260	20.5	59.8	0.002	<0.01	<0.05	14.4	2	2.8	54.7	1.04	<0.05	43.2	0.631
12352		230	8.4	38.1	0.002	<0.01	0.05	14.9	2	2.3	56.5	0.74	<0.05	15.5	0.442
12353		200	19.3	51	0.002	<0.01	0.08	9.3	2	2.3	52.7	0.65	<0.05	26.1	0.308
12354		180	21.7	67.5	0.002	<0.01	0.07	7.6	2	2	61.5	0.55	<0.05	34.3	0.347
12355		180	27.6	80.3	0.002	<0.01	0.06	5.1	2	2	64	0.32	<0.05	39.5	0.18
12356		140	20.6	62.1	0.002	<0.01	0.06	4.4	2	1.2	73.1	0.23	<0.05	24.3	0.139
12357		110	20	82.5	0.002	<0.01	0.06	5.1	1	1.2	78.9	0.17	<0.05	13	0.111
12358		160	21.4	60	0.002	<0.01	<0.05	5.7	2	1.6	61.6	0.32	<0.05	24.8	0.166
12359		150	21.8	90.1	0.002	<0.01	0.05	6.6	2	1.5	92	0.27	<0.05	30.9	0.168
12360		230	12.6	47.1	0.002	<0.01	0.05	10.6	2	1.8	90.3	0.3	<0.05	13.1	0.2
12361		270	11.2	25.7	0.002	<0.01	0.05	14.2	3	3.3	46.4	0.79	<0.05	55.1	0.549
12362		180	13.2	48.9	<0.002	<0.01	0.06	10.6	1	2	79.1	0.43	<0.05	22.4	0.284
12363		630	23.6	25.5	0.004	<0.01	<0.05	15.9	5	4.2	45	1.04	<0.05	218	0.998
12364		250	7.9	16.9	0.002	<0.01	<0.05	10.9	2	2.6	69.1	0.87	<0.05	41.7	0.415
12365		570	22	23.9	0.003	<0.01	0.05	11.3	4	4.2	46.5	1.46	<0.05	214	0.792
12366		190	8.2	27.2	0.002	<0.01	0.06	7.3	2	2.4	60.1	0.56	<0.05	33.9	0.27
12367		330	10.7	19.5	0.002	<0.01	0.14	13	3	3.7	61.8	1.03	<0.05	72.5	0.571
12368		300	8.5	28	0.002	<0.01	0.07	16.5	2	4.3	49.6	1.15	<0.05	49.2	0.771
12369		440	16	29.6	0.003	<0.01	0.05	15.8	4	5.1	48.8	1.46	<0.05	132.5	0.728
12501		210	10.4	34.6	0.002	<0.01	0.08	23.2	3	3	60.4	0.9	<0.05	28.9	0.614
12502		140	9.5	55.6	0.002	<0.01	0.05	13.5	2	2.9	60.9	0.75	<0.05	13.1	0.265
12503		150	7.3	77.8	0.002	<0.01	0.09	8.7	3	3.8	82.5	1.26	<0.05	17.5	0.303
12504		210	13	41.6	0.002	<0.01	0.07	21.1	2	3.5	85.6	1.7	<0.05	14.5	0.449
12505		250	11.1	26.7	<0.002	<0.01	0.06	21	2	2.5	59.3	0.9	<0.05	22	0.58
12506		260	7.7	18.4	0.002	<0.01	<0.05	25.7	2	3.4	78.3	1.49	<0.05	21.9	1.125
12507		290	5.2	9.2	0.002	<0.01	<0.05	26.5	2	6	108.5	3.22	<0.05	21.9	2.03
12508		240	2.8	9	<0.002	<0.01	<0.05	19.8	2	3.4	71.9	1.4	<0.05	9.9	0.908
12509		160	13.2	54.1	<0.002	<0.01	0.05	15.9	2	2.3	110.5	0.98	<0.05	14.2	0.758
12510		350	10.5	50.8	<0.002	0.01	0.12	20.9	2	3.8	90.7	1.16	<0.05	22.2	0.619
12511		180	7.5	26	<0.002	<0.01	0.07	10.2	1	1.8	82.1	0.49	<0.05	15	0.262
12512		130	9.7	52.9	<0.002	<0.01	<0.05	7.6	1	1.1	313	0.33	<0.05	10.8	0.181
12513		140	16.2	80.1	<0.002	<0.01	0.06	10.3	1	1.9	69.7	0.43	<0.05	16.2	0.212
12514		270	22.4	92.1	<0.002	<0.01	0.06	13.3	2	2.2	80.4	0.56	<0.05	86.4	0.371
12515		140	19.8	91.6	<0.002	<0.01	0.08	14.4	1	2.3	71.1	0.59	<0.05	31	0.366
12516		170	14.2	101.5	<0.002	<0.01	0.07	8.9	1	2.2	125.5	0.46	<0.05	11.1	0.187
12517		170	17.5	117	<0.002	<0.01	<0.05	10.6	1	2.9	53.9	0.59	<0.05	13.7	0.286
12518		290	18.2	80.8	<0.002	0.01	0.08	13.4	1	1.5	69.5	0.58	<0.05	25.1	0.353



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## CERTIFICATE OF ANALYSIS AS08152922

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
		U	V	W	Y	Zn	Zr	Dy	Er	Eu	Gd	Ho	Lu	Nd	Pr	Sm
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5	0.05	0.03	0.03	0.05	0.01	0.01	0.1	0.03	0.03
12348		1.3	89	2	30.9	67	73.2	6.57	3.5	1.73	8.9	1.24	0.49	46.7	12.95	8.99
12349		1.2	156	2.1	43.1	120	45.6	9.53	5.02	1.94	14	1.78	0.71	78.7	21.9	14.2
12350		2	113	7.4	45.8	52	115	9.72	5.3	1.77	12.55	1.92	0.77	58	16.3	12.2
12351		2.4	118	4.6	52.8	55	118.5	11.5	5.7	1.9	16.05	2.11	0.77	73.5	20.4	15.7
12352		1.3	93	0.5	34.9	33	98.8	6.61	3.85	1.38	7.09	1.36	0.58	30.6	8.2	6.67
12353		2	53	2.3	46	44	105	8.94	5.06	1.88	10.45	1.78	0.71	46.9	12.6	9.95
12354		2.2	55	1	29.9	30	97.8	6.77	3.26	1.36	9.22	1.23	0.45	44.5	12.65	9.16
12355		2.5	32	0.9	36.6	21	89.6	8.19	3.92	1.44	11	1.46	0.5	51.1	14.45	10.65
12356		1.7	25	1.6	26.8	17	74.1	5.59	2.88	1.49	7.18	1.06	0.39	34.2	9.55	7.02
12357		1.3	30	0.6	12.9	15	79.7	2.71	1.38	1.28	3.45	0.52	0.2	17.3	4.8	3.4
12358		1.9	28	1.7	32.5	24	91.3	6.87	3.62	1.58	8.23	1.32	0.49	37.9	10.5	7.95
12359		2.3	37	4.2	22.7	19	100.5	4.92	2.42	1.5	6.79	0.92	0.32	35	10.15	6.68
12360		1.3	58	8.3	23.1	30	98.5	4.84	2.64	1.81	5.84	0.95	0.4	27.3	7.6	5.6
12361		4.1	102	0.8	98.2	36	141.5	18.5	10.85	2.01	21.1	3.78	1.53	91.8	25.4	20.4
12362		1.6	74	1.2	35.7	34	91.1	7.14	4.09	1.58	8.34	1.43	0.61	37.6	10.5	7.8
12363		8.2	250	2.3	144.5	66	154.5	36.4	14.65	3.67	59.8	5.92	1.67	314	88.2	61.6
12364		2.6	77	0.7	36.9	20	150.5	8.89	4.13	1.96	13.1	1.55	0.56	62.8	16.85	12.95
12365		8.7	93	1.1	115	27	320	30.6	11.45	3.34	52.8	4.74	1.17	284	79.7	53.2
12366		2	41	2.1	32.2	15	116.5	7.31	3.48	1.7	10.5	1.31	0.45	52	14.65	10.35
12367		3.9	105	1.3	68.5	35	185	16.55	7.46	2.4	25	2.82	0.89	117	32.9	25
12368		3.3	161	2.3	62.9	44	162	13.75	6.85	2.11	18.25	2.55	0.92	84.8	23.3	18.15
12369		6.4	138	2.9	94.5	39	192.5	25.2	9.76	3.29	43.1	4	1.08	218	57.8	43.1
12501		1.6	169	7.5	77	67	77.3	13.5	9.3	1.48	12.3	3.07	1.48	52.2	14.2	10.7
12502		1.5	68	0.7	41.1	30	87.4	6.99	4.88	1.27	6.12	1.6	0.79	24.8	6.43	5.6
12503		2.8	35	2.4	45.5	16	286	8.52	5.42	1.5	7.35	1.84	0.78	27.5	7.22	6.55
12504		1.8	121	1.3	46.4	54	84.3	8.13	5.51	1.38	7.21	1.84	0.86	29.8	8.25	6.37
12505		1.3	136	3	57.9	59	74.4	9.94	6.69	1.34	9.57	2.2	1.06	41.1	10.9	8.71
12506		0.9	233	13	55.1	57	62.8	9.76	6.39	1.31	9.46	2.18	0.97	40.8	10.85	8.55
12507		1	332	1.2	36	59	141	7.14	4.06	1.25	7.56	1.45	0.56	33.4	8.98	6.93
12508		0.6	157	1.6	32.3	33	84	6.05	3.48	1.25	6.23	1.28	0.46	24.9	6.3	5.58
12509		1.1	158	1.2	30	35	95.6	5.83	3.35	1.45	6.37	1.18	0.51	29.8	7.38	6.27
12510		1.7	115	1.1	52.5	46	97	10.25	6.04	2.15	11	2.12	0.88	51	13.1	10.75
12511		1.2	53	1.8	29	19	85.4	5.74	3.19	1.55	6.85	1.13	0.47	33.5	8.79	6.77
12512		1.3	54	0.6	23.6	18	54	4.25	2.44	1.07	4.83	0.86	0.35	23.1	5.96	4.67
12513		1.6	61	1.2	18.5	32	69.8	3.77	2.01	0.97	4.82	0.72	0.29	24.5	6.44	4.88
12514		6.8	77	0.7	44.1	32	69.8	11.25	4.42	1.4	17.4	1.84	0.43	87.6	23.9	17.95
12515		2.2	89	1.1	24.8	41	72.4	4.98	2.8	1.08	6.09	0.99	0.42	30.6	8.11	6.17
12516		1.5	47	0.6	16	28	66.7	3.08	1.64	0.89	3.71	0.6	0.24	18.5	4.89	3.75
12517		1.7	73	1.3	12.8	42	48.7	2.77	1.37	0.82	3.83	0.5	0.18	22	5.9	4.09
12518		1.9	65	0.7	32.8	38	65.1	6.43	3.76	1.17	7.54	1.29	0.54	40.9	11.35	7.6



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## CERTIFICATE OF ANALYSIS AS08152922

Sample Description	Method Analyte Units LOR	ME-MS61r	ME-MS61r	ME-MS61r	Cu-OG62
		Tb	Tm	Yb	Cu
		ppm	ppm	ppm	%
		0.01	0.01	0.03	0.001
12348		1.32	0.49	3.08	
12349		1.91	0.69	4.49	
12350		1.93	0.76	4.74	
12351		2.4	0.76	4.82	
12352		1.19	0.56	3.47	
12353		1.66	0.71	4.52	
12354		1.37	0.44	2.72	
12355		1.69	0.52	3.12	
12356		1.1	0.4	2.43	
12357		0.53	0.19	1.21	
12358		1.34	0.49	3.08	
12359		1	0.32	1.88	
12360		0.93	0.38	2.39	
12361		3.47	1.56	9.68	
12362		1.32	0.6	3.75	
12363		8.32	1.77	10.45	
12364		1.89	0.56	3.57	
12365		7.08	1.29	7.45	
12366		1.53	0.45	2.79	
12367		3.58	0.93	5.73	
12368		2.75	0.93	5.73	
12369		5.84	1.14	6.8	
12501		2.2	1.43	9.15	
12502		1.17	0.75	4.85	
12503		1.44	0.8	4.93	
12504		1.34	0.85	5.3	
12505		1.69	1.01	6.52	
12506		1.66	0.96	6.05	
12507		1.26	0.58	3.53	
12508		1.09	0.49	3.01	
12509		1.07	0.49	3	
12510		1.8	0.88	5.55	
12511		1.07	0.45	2.87	
12512		0.79	0.34	2.13	
12513		0.75	0.28	1.76	
12514		2.51	0.49	2.8	
12515		0.94	0.41	2.6	
12516		0.6	0.23	1.45	
12517		0.56	0.19	1.17	
12518		1.14	0.52	3.26	



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## CERTIFICATE OF ANALYSIS AS08152922

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	PUL-QC Pass75um %	Au-TL44 Au ppm	ME-MS61r Ag ppm	ME-MS61r Al %	ME-MS61r As ppm	ME-MS61r Ba ppm	ME-MS61r Be ppm	ME-MS61r Bi ppm	ME-MS61r Ca %	ME-MS61r Cd ppm	ME-MS61r Ce ppm	ME-MS61r Co ppm	ME-MS61r Cr ppm	ME-MS61r 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
12519		2.08		0.001	0.04	4.53	0.5	550	1.05	0.19	1.61	0.09	95.2	14.7	47	1.12
12520		2.34		0.001	0.05	5.15	0.8	430	1.09	0.4	2.24	0.1	66.5	23.6	64	1.15
12521		2.68		0.002	0.05	6.23	0.4	250	1.05	0.24	3.62	0.1	81.5	23.6	80	0.92
12522		1.24		0.002	0.05	5.5	1	530	1.41	0.21	1.08	0.08	68.3	15.6	25	2.71
12523		1.82		0.002	0.05	7.33	1.1	580	1.29	0.17	2.59	0.09	68.8	21.8	44	1.99
12524		2.29		0.002	0.05	6.72	1.8	620	1.22	0.2	2.12	0.09	72.3	25.7	51	1.65
12525		1.59		0.001	0.04	6.48	0.7	1230	1.22	0.11	2.61	0.09	71.1	18.9	36	0.93
12526		2.00		0.001	0.04	4.41	0.4	360	0.95	0.09	1.03	0.06	92.1	12.8	41	1.6
12527		2.04		0.001	0.03	4.84	<0.2	420	0.98	0.08	1.77	0.07	65.2	16.4	68	1.42
12528		2.51	94.9	0.001	0.04	4.44	0.8	440	0.7	0.08	0.94	0.05	85.1	11.3	76	1.39
12529		1.44		0.001	0.05	6.61	1	440	1.29	0.14	1.24	0.08	128	15.9	77	2.42
12530		2.53		<0.001	0.03	3.91	<0.2	480	0.74	0.06	1.41	0.05	40.9	12.4	51	1.1
12531		2.40		<0.001	0.03	3.97	<0.2	610	0.54	0.05	1.29	0.07	41.8	12.7	54	0.87
12532		2.56		<0.001	0.02	3.15	0.2	560	0.45	0.04	0.53	0.05	32.2	7.9	30	0.94
12533		2.56		0.001	0.04	4.55	0.8	680	0.78	0.04	0.83	0.07	68.1	10.6	44	1.39
12534		2.19		0.001	0.02	3.66	0.6	560	0.42	0.03	0.49	0.09	42.3	6.3	22	0.99
12535		1.97		<0.001	0.03	3.78	0.5	440	0.65	0.07	0.76	0.06	83.5	9.6	44	1.39
12536		2.27		0.001	0.04	5.51	0.2	380	1.02	0.14	2.07	0.08	105.5	23.2	90	2.86
12537		1.74		0.001	0.05	4.4	<0.2	410	0.83	0.1	0.95	0.06	135.5	13.1	56	2.3
12538		2.55		0.001	0.04	4.08	0.3	370	0.85	0.08	0.95	0.06	269	13.2	47	2.05
12539		1.93		0.001	0.04	4.42	0.2	550	0.79	0.06	0.96	0.05	160.5	11.9	50	1.89
12540		1.96		<0.001	0.02	3.25	0.2	630	0.45	0.03	0.46	0.05	35.5	5.4	17	1
12541		2.01		0.001	0.05	4.49	0.3	360	1.02	0.08	1.98	0.06	69.1	14.4	65	0.33
12542		1.63		0.001	0.04	4.81	0.3	350	1.2	0.23	2.16	0.08	52.5	16.8	33	0.82



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## CERTIFICATE OF ANALYSIS AS08152922

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
		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
12519		24.1	4.14	12.35	0.19	3.1	0.063	2	44.6	4.2	1.11	780	0.72	0.68	6.5	18.1
12520		26.1	5.19	14.35	0.16	2.7	0.089	1.52	29.7	4.8	1.64	903	0.41	0.76	6.2	25.2
12521		25.7	5.65	17.9	0.17	2.8	0.116	1.03	33.9	4.9	1.77	1040	0.66	0.74	8.1	34.7
12522		20.5	5.49	15.65	0.17	2.6	0.069	2.23	25.4	7.9	0.88	685	0.36	0.63	9.1	12.2
12523		23.8	6.94	16.65	0.17	2.6	0.08	2.22	29.3	8.8	1.61	1110	0.49	0.93	8.1	17.4
12524		30.5	5.68	17.5	0.17	2.2	0.081	2.16	29.3	9.8	1.48	1080	0.31	0.83	7.1	25.6
12525		22.1	4.98	16.1	0.17	2.4	0.069	2.26	29.1	5.2	1.34	832	0.57	1.08	6.4	17.7
12526		14.3	3.77	13.3	0.17	3.7	0.054	1.54	45.1	6.1	0.97	489	0.14	0.63	8.1	19.7
12527		17.7	4.12	12	0.17	1.8	0.048	1.52	30.6	6	1.29	717	0.57	0.75	5.7	25.1
12528		16.9	3.2	9.77	0.18	1.5	0.029	1.55	40.2	7.7	0.71	547	0.59	0.43	4.2	22.3
12529		30.8	4.59	14.95	0.2	2.4	0.054	1.72	63.5	11.7	1.08	709	0.82	0.65	7.7	27.5
12530		10	3.07	9.66	0.15	1.6	0.036	1.51	18.5	3.7	0.91	610	0.12	0.61	4	17.7
12531		11.4	3.56	8	0.13	1	0.031	1.89	18.9	4.7	0.88	790	0.51	0.43	2.6	17.3
12532		8.3	2.4	6.33	0.12	1	0.024	1.79	14.2	3.8	0.43	510	0.18	0.28	3.3	10
12533		16.1	4.86	11.55	0.16	1.7	0.06	2.52	31.4	8.2	0.65	738	0.51	0.33	12.5	15.2
12534		7.7	3.47	7.18	0.14	0.7	0.037	2.11	20.1	5.6	0.39	784	0.13	0.23	3.7	6.9
12535		13.7	2.97	8.74	0.17	2	0.032	1.56	39.7	4.7	0.58	589	0.76	0.47	5.1	15.4
12536		29.9	6.46	14.05	0.19	2.5	0.07	1.69	51.1	6.9	2.11	1090	0.27	0.58	8.5	35.5
12537		17.6	3.64	12.65	0.21	2.6	0.054	1.89	66	5.3	1.01	588	0.6	0.62	8.6	22.2
12538		15.2	3.57	11.85	0.28	2.5	0.046	1.51	130	5.5	0.91	711	0.2	0.46	7.8	19.7
12539		14.9	3.16	12	0.21	2.4	0.04	1.96	78.5	5.2	0.8	570	0.7	0.6	6.9	19.9
12540		7.3	2.08	7.05	0.13	0.8	0.022	2.28	16.3	4.7	0.29	399	0.14	0.32	3.5	7.1
12541		16.1	4.23	12.7	0.17	2	0.059	0.87	34.7	2.8	1	563	0.78	1.11	11.3	21.2
12542		14.7	4.72	13.85	0.16	2.4	0.095	1.72	19.8	4.6	1.13	857	0.44	0.79	5.5	15.8



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## CERTIFICATE OF ANALYSIS AS08152922

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
		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
12519		160	24.1	89.8	<0.002	<0.01	0.09	16	1	2.4	44.3	0.59	<0.05	33.2	0.297
12520		150	20	73.9	<0.002	<0.01	0.1	21.6	1	3.2	54.1	0.54	<0.05	15	0.379
12521		150	16.6	48.8	<0.002	<0.01	0.11	30.2	2	3.9	110	0.75	<0.05	27.7	0.506
12522		200	16.7	116.5	<0.002	<0.01	0.11	18.4	2	2.7	51.6	0.87	<0.05	14	0.483
12523		230	15.4	89.4	<0.002	0.01	0.14	23.6	2	2.7	96.8	0.65	<0.05	12.6	0.57
12524		220	19.2	92.9	<0.002	<0.01	0.15	22.4	2	2.5	99.9	0.53	<0.05	10.9	0.43
12525		220	13.8	77.2	<0.002	<0.01	0.07	20.8	2	2.7	160	0.49	<0.05	11.1	0.353
12526		160	14	95.9	<0.002	<0.01	<0.05	13.9	1	2.8	45.7	0.62	<0.05	25.4	0.326
12527		190	13.5	76.8	<0.002	<0.01	0.06	16.7	1	2.3	71.2	0.46	<0.05	15.4	0.283
12528		170	15.4	63.9	<0.002	0.01	0.08	11.1	1	1.3	58	0.33	<0.05	24.2	0.243
12529		470	17.9	95.4	<0.002	0.01	0.13	16.5	1	2.7	73.6	0.64	<0.05	35.4	0.377
12530		180	13.8	68	<0.002	<0.01	<0.05	14.2	1	1.6	90.7	0.32	<0.05	6.6	0.21
12531		150	15.6	67.9	<0.002	<0.01	0.06	15.1	1	0.9	73.1	0.21	<0.05	7.5	0.18
12532		130	14	67.1	<0.002	<0.01	<0.05	8.9	1	0.7	67.9	0.25	<0.05	8.1	0.163
12533		280	18.2	112	<0.002	0.01	<0.05	16.2	1	0.9	66.3	0.82	<0.05	9.9	0.376
12534		190	16.6	82.8	<0.002	<0.01	<0.05	15.2	2	0.6	54.1	0.28	<0.05	8.4	0.14
12535		170	14.8	73.2	<0.002	<0.01	0.08	10.8	1	1.7	54.3	0.42	<0.05	20.8	0.278
12536		310	13.2	107	<0.002	<0.01	<0.05	23.6	2	3.1	51.4	0.76	<0.05	20.4	0.499
12537		230	18.1	119	<0.002	<0.01	0.06	13.7	2	3.3	43.8	0.7	<0.05	33.3	0.309
12538		360	19.8	94.2	<0.002	<0.01	<0.05	15.3	2	2.5	53.9	0.63	<0.05	40.6	0.337
12539		190	21.3	110.5	<0.002	<0.01	0.06	12.7	1	2.2	80.9	0.54	<0.05	42.2	0.264
12540		150	17.8	91.5	<0.002	<0.01	<0.05	8	1	0.6	66.5	0.23	<0.05	6.1	0.123
12541		200	10.7	34.2	<0.002	<0.01	0.06	16.8	2	2.2	160	0.75	<0.05	14	0.491
12542		120	14.9	75.6	<0.002	<0.01	0.06	21	1	2.9	52.4	0.47	<0.05	21.3	0.351



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## CERTIFICATE OF ANALYSIS AS08152922

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
		U	V	W	Y	Zn	Zr	Dy	Er	Eu	Gd	Ho	Lu	Nd	Pr	Sm
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5	0.05	0.03	0.03	0.05	0.01	0.01	0.1	0.03	0.03
12519		2.9	86	1.9	26.3	61	98.8	5.61	2.79	1.06	7.8	1.02	0.39	38.3	10.05	8.05
12520		1.9	126	0.9	24.6	72	84.9	4.89	2.79	1.11	5.41	1	0.4	25.5	6.68	5.43
12521		3.1	164	1.7	41.2	53	80.7	7.22	4.53	1.37	7.16	1.55	0.66	29.7	7.6	6.53
12522		1.4	114	1.6	20.2	74	81.1	4.05	2.4	1.03	4.55	0.83	0.37	22.8	5.97	4.65
12523		1.5	185	1.3	30.6	81	79.3	5.48	3.32	1.3	5.58	1.15	0.5	25.5	6.51	5.49
12524		1.2	145	1	33.4	80	63.4	5.95	3.76	1.37	5.8	1.29	0.54	26	6.7	5.55
12525		1.2	128	1.2	29.7	61	65.3	5.18	3.15	1.37	5.24	1.09	0.47	24.3	6.31	5.12
12526		1.9	74	0.5	20.3	41	107	4.69	2.28	1.07	6.73	0.84	0.32	36.6	9.74	6.95
12527		1.5	97	1.2	22.6	44	54.3	4.49	2.48	1.05	5.14	0.87	0.35	26	6.71	5.12
12528		1.7	69	0.5	18.4	28	47.4	4.11	1.98	0.92	5.91	0.73	0.27	32.7	8.83	6.19
12529		2.5	97	1.8	28.9	58	76.3	6.37	3.04	1.41	9.05	1.15	0.39	49.7	13.6	9.49
12530		0.9	75	0.4	19.2	30	47.8	3.42	2.07	0.94	3.44	0.71	0.3	16.7	4.3	3.31
12531		0.7	76	1	23.7	30	30.6	4.05	2.61	0.91	3.53	0.89	0.4	16.1	4.24	3.22
12532		0.7	43	0.2	17.2	21	30.3	2.92	1.91	0.73	2.55	0.65	0.29	12.2	3.2	2.43
12533		0.9	76	0.8	29.9	56	55.3	5.28	3.34	1.32	5.31	1.14	0.5	26.8	7.12	5.03
12534		0.5	35	0.3	45.8	26	22.2	7.22	4.91	0.91	4.37	1.69	0.73	16.4	4.33	3.31
12535		2.2	59	1.6	22.4	28	65.1	4.49	2.39	0.95	5.77	0.86	0.33	33	8.88	6.25
12536		2.8	156	0.6	28.9	72	78.9	5.71	2.92	1.14	7.41	1.07	0.41	40.5	10.75	7.72
12537		3.4	71	1.5	27.2	43	80.1	6.42	2.83	1.35	9.66	1.06	0.35	53	14.25	10.25
12538		6	70	0.6	45.1	36	76.7	11.4	4.43	1.43	18.35	1.81	0.46	99	27.2	19
12539		3	61	1.3	26.5	33	75.1	6.27	2.71	1.24	10	1.03	0.33	57.4	15.75	10.75
12540		0.5	34	0.2	19.3	20	24.1	3.26	2.18	0.96	2.77	0.75	0.32	13.9	3.66	2.64
12541		1	107	1.6	34.8	35	59.5	6.25	3.86	1.2	6.21	1.35	0.61	29.1	7.32	5.95
12542		1.9	123	1	30.4	45	66.1	5.19	3.31	0.91	4.69	1.12	0.51	18.6	4.65	4.23



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## CERTIFICATE OF ANALYSIS AS08152922

Sample Description	Method Analyte Units LOR	ME-MS61r	ME-MS61r	ME-MS61r	Cu-OG62
		Tb	Tm	Yb	Cu
		ppm	ppm	ppm	%
		0.01	0.01	0.03	0.001
12519		1.15	0.38	2.4	
12520		0.92	0.4	2.48	
12521		1.24	0.66	4.11	
12522		0.75	0.35	2.22	
12523		0.97	0.49	3.03	
12524		1.04	0.55	3.42	
12525		0.9	0.46	2.86	
12526		0.95	0.31	1.92	
12527		0.81	0.35	2.15	
12528		0.86	0.27	1.64	
12529		1.31	0.39	2.47	
12530		0.59	0.3	1.85	
12531		0.67	0.39	2.44	
12532		0.47	0.29	1.79	
12533		0.91	0.49	3.08	
12534		1.02	0.73	4.58	
12535		0.9	0.33	2.11	
12536		1.12	0.4	2.51	
12537		1.36	0.36	2.25	
12538		2.55	0.51	2.99	
12539		1.38	0.33	2.04	
12540		0.51	0.31	1.99	
12541		1.07	0.59	3.72	
12542		0.85	0.49	3.12	





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## CERTIFICATE OF ANALYSIS AS08152922

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