



ALS Canada Ltd.  
2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**  
**C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**1016-510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

Page: 1  
Finalized Date: 16-JUL-2012  
Account: RANSIL

**CERTIFICATE WH12155822**

Project: Keg (Group 3)

P.O. No.:

This report is for 50 Rock samples submitted to our lab in Whitehorse, YT, Canada on 6-JUL-2012.

The following have access to data associated with this certificate:

MATT DUMALA

JOAN MARIACHER

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85% <75 um

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Ag-OG62	Ore Grade Ag - Four Acid	VARIABLE
Pb-OG62	Ore Grade Pb - Four Acid	VARIABLE
Au-AA23	Au 30g FA-AA finish	AAS

To: **SILVER RANGE RESOURCES LTD.**  
**ATTN: JOAN MARIACHER**  
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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:

Colin Ramshaw, Vancouver Laboratory Manager



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Plus Appendix Pages  
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**CERTIFICATE OF ANALYSIS WH12155822**

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
K191883		0.32	11.05	3.97	>10000	350	0.92	14.75	0.19	1.45	12.95	3.3	46	1.46	106.0	3.00
K191884		0.66	>100	4.46	>10000	1370	1.06	11.50	0.25	1.70	28.6	2.8	61	2.30	49.7	3.07
K191885		0.44	29.5	6.19	9000	420	1.42	65.8	0.25	2.61	15.40	0.2	63	2.25	26.7	1.30
K191886		0.42	0.86	8.04	167.0	740	1.19	0.20	3.73	0.91	51.2	10.1	63	4.86	6.4	4.49
K191887		0.36	57.4	3.93	>10000	40	1.65	39.2	0.20	6.25	28.6	209	63	0.26	369	18.40
K191888		0.39	>100	2.67	>10000	1270	0.99	6.11	0.02	4.64	107.0	1.3	23	2.08	494	15.80
K191889		0.32	39.9	3.22	>10000	440	1.01	55.1	0.09	7.32	11.45	1.9	7	2.28	228	17.70
K191890		0.26	12.50	7.31	>10000	740	1.13	2.32	0.04	5.19	22.9	0.7	12	10.15	147.0	6.75
K191891		0.09	25.8	0.58	5730	610	0.40	9.58	0.09	1.48	27.9	1.1	17	0.89	70.1	2.05
K191892		0.41	14.95	6.45	4230	410	3.08	29.8	0.35	0.54	13.25	0.4	78	0.80	14.6	1.62
K191893		0.25	29.7	6.58	1200	1430	2.51	38.0	0.37	4.53	92.1	0.5	69	1.55	27.7	2.50
K191894		0.35	82.7	1.66	>10000	110	0.30	1.66	0.01	5.09	2.54	89.3	27	2.13	282	21.6
K191895		0.53	43.8	3.75	>10000	170	1.35	9.73	0.21	9.70	13.85	127.0	35	1.03	144.0	18.25
K191896		0.41	>100	8.93	>10000	1450	2.18	16.35	0.30	27.5	129.0	0.9	19	3.09	154.5	12.35
K191897		0.53	>100	7.39	>10000	6230	4.55	46.6	0.15	8.32	191.0	0.4	17	77.9	83.9	10.55
K191898		0.43	>100	7.50	>10000	2830	3.45	12.00	0.04	3.80	153.0	0.8	13	24.6	65.7	4.50
K191899		0.49	>100	7.92	>10000	310	2.49	36.0	0.40	6.16	10.60	1.6	51	0.58	135.0	6.21
K191900		0.40	1.51	7.77	349	1260	2.11	0.69	1.08	1.03	77.6	6.0	69	8.67	28.8	2.58
L840501		0.15	>100	1.71	>10000	40	0.75	4660	0.09	71.9	19.40	30.7	33	0.21	202	13.40
L840502		0.31	10.55	0.17	679	10	0.07	10.15	0.86	22.5	2.37	0.5	16	0.10	9.7	1.72
L840503		0.55	19.85	0.05	1020	30	<0.05	18.15	0.13	6.99	1.53	0.2	16	0.11	19.0	1.70
L840504		0.64	>100	0.44	>10000	140	0.08	5210	0.02	4.59	2.45	14.1	6	0.20	112.5	17.25
L840505		0.38	2.09	2.32	457	60	3.96	10.10	6.17	1.80	21.5	10.8	7	0.82	173.5	9.34
L840506		0.56	>100	0.21	>10000	60	0.79	27.9	0.01	3.81	3.35	36.0	<1	0.15	1020	28.8
L840507		0.20	>100	1.59	>10000	130	0.74	386	0.02	68.5	57.4	8.2	7	2.16	934	22.0
L840508		0.56	>100	7.15	>10000	410	2.16	23.6	0.40	20.5	20.3	1.2	72	12.55	53.0	3.02
L840509		0.50	52.8	1.17	>10000	120	0.16	84.4	0.01	36.9	6.91	2.2	16	0.94	501	21.7
L840510		0.35	>100	4.84	>10000	460	0.53	104.0	0.01	10.90	52.6	0.4	64	5.05	352	16.00
L840511		0.24	>100	1.01	>10000	70	0.23	5.25	0.01	16.30	78.1	41.7	18	1.01	434	23.8
L840512		0.99	>100	5.73	>10000	840	1.48	39.6	0.19	5.74	92.0	1.4	60	2.23	214	15.40
L840513		0.60	81.3	9.36	>10000	1560	4.05	18.35	0.50	11.50	42.9	0.6	76	0.77	77.0	4.52
L840514		0.47	>100	6.12	>10000	4330	1.91	31.5	0.23	44.7	156.5	0.9	51	10.50	187.5	14.60
L840515		0.89	22.8	5.87	>10000	720	1.68	182.0	0.22	23.6	63.2	5.9	65	3.88	177.5	3.59
L840516		0.59	>100	0.58	>10000	40	0.40	729	0.04	2.56	26.7	395	3	0.24	138.5	26.6
L840517		0.55	69.4	4.23	>10000	170	1.29	99.1	0.17	13.30	39.2	26.6	82	1.72	938	18.50
L840518		0.48	83.7	3.91	>10000	210	1.11	98.7	0.21	5.79	13.80	24.1	43	0.91	507	20.2
L840519		0.52	>100	7.47	>10000	540	1.83	916	0.31	6.02	73.9	0.5	95	7.26	151.5	5.19
L840520		0.49	65.2	4.81	>10000	1170	0.69	3.15	0.04	5.65	80.8	2.1	59	5.50	399	10.10
L840528		0.50	73.8	0.96	755	230	0.41	15.15	3.90	5.69	5.31	1.5	12	0.43	30.5	4.19
L840529		0.40	49.5	0.22	9900	30	0.44	53.4	2.43	6.78	1.98	1.3	10	0.21	6.6	2.24



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**CERTIFICATE OF ANALYSIS WH12155822**

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
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		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	10
K191883		12.15	0.39	1.5	0.037	0.57	6.9	45.2	0.97	60	1.66	0.18	7.5	2.8	100
K191884		14.55	0.32	1.7	0.049	0.38	17.1	21.8	1.26	54	1.68	0.25	8.9	3.2	320
K191885		16.55	0.21	2.0	0.647	1.42	9.1	17.0	1.29	61	2.31	0.21	11.1	1.4	130
K191886		17.35	0.15	1.5	0.035	1.68	26.4	38.9	1.47	668	0.71	1.08	9.7	4.2	420
K191887		13.65	2.11	1.2	0.238	0.09	11.3	5.3	1.17	30	6.36	0.25	11.0	21.8	390
K191888		6.31	1.17	0.3	5.45	0.63	50.9	9.0	0.11	23	14.25	0.01	2.0	1.8	2390
K191889		10.40	1.95	1.3	0.396	0.65	6.4	6.5	0.59	22	1.02	0.12	6.4	0.7	290
K191890		16.45	0.47	2.8	0.155	3.35	13.1	11.0	0.39	87	0.81	0.03	10.4	0.7	290
K191891		2.53	0.20	0.4	0.209	0.20	15.9	31.9	0.05	92	0.58	0.01	1.5	2.6	1620
K191892		18.55	0.13	1.9	0.035	0.57	7.7	10.0	1.85	62	2.47	0.36	10.9	3.3	350
K191893		20.3	0.25	2.3	0.048	1.41	45.8	12.2	1.69	75	3.60	0.36	12.6	3.0	930
K191894		6.08	1.69	1.1	0.210	0.82	1.5	9.6	0.14	30	2.86	<0.01	5.6	115.5	170
K191895		11.45	2.28	1.0	0.205	0.18	5.9	4.6	1.13	37	1.04	0.24	5.0	49.9	310
K191896		18.20	1.11	2.5	4.27	1.22	77.1	8.8	1.78	317	13.65	0.41	8.9	2.7	4830
K191897		23.7	0.50	3.2	7.78	2.23	85.5	10.0	1.08	105	3.24	0.29	12.1	1.3	840
K191898		20.3	0.57	2.6	0.203	3.28	72.2	18.7	0.46	79	2.25	0.06	10.6	1.9	330
K191899		27.4	0.71	1.7	3.27	0.06	5.8	36.3	2.42	159	2.34	0.51	8.4	3.0	550
K191900		21.3	0.18	2.7	0.030	3.56	43.7	22.4	1.21	57	3.43	0.13	14.1	32.1	750
L840501		6.03	3.22	1.4	8.57	0.04	17.4	5.5	0.54	32	30.6	0.10	3.9	28.5	1210
L840502		0.73	0.06	0.1	0.389	0.03	1.3	4.1	0.83	123	0.34	<0.01	0.4	2.2	100
L840503		0.67	0.21	0.1	0.826	0.01	1.3	6.7	0.17	58	0.27	<0.01	0.1	1.2	110
L840504		0.86	4.25	0.1	0.270	0.42	1.5	1.8	0.02	13	0.42	<0.01	0.9	2.2	100
L840505		2.38	0.17	0.4	0.056	0.11	13.6	9.2	10.20	1150	28.7	0.01	1.3	103.0	1940
L840506		1.01	1.61	<0.1	0.730	0.06	2.0	0.8	0.02	<5	164.5	<0.01	0.7	19.8	4190
L840507		3.93	2.14	0.5	2.84	0.54	36.1	5.9	0.08	58	1.91	<0.01	1.9	0.7	2200
L840508		23.7	0.28	2.0	0.831	0.46	9.5	14.7	2.12	124	3.37	0.42	10.5	2.9	310
L840509		4.21	1.94	0.4	1.380	0.45	3.6	2.3	0.07	15	2.84	<0.01	3.0	1.4	310
L840510		15.95	2.37	1.8	1.275	2.36	28.6	15.1	0.31	39	3.52	0.02	11.1	1.1	430
L840511		4.19	1.91	0.6	0.271	0.32	35.6	7.7	0.09	11	2.38	<0.01	3.3	26.5	390
L840512		15.30	1.71	1.8	1.470	0.49	49.0	44.8	1.24	87	2.91	0.25	10.1	1.6	1140
L840513		34.8	0.32	3.0	2.85	0.07	18.9	10.3	2.97	162	4.12	0.74	14.5	3.5	1130
L840514		17.05	1.73	2.0	4.95	0.70	81.8	10.6	1.37	69	4.52	0.33	8.8	1.6	1570
L840515		17.95	0.98	2.3	0.110	1.94	35.9	18.9	1.02	55	3.29	0.17	10.0	6.1	360
L840516		1.58	5.18	0.2	0.148	0.04	12.2	1.3	0.12	6	0.51	0.02	1.1	306	590
L840517		12.40	1.63	1.6	0.657	0.57	20.7	7.1	0.89	50	4.24	0.15	8.6	16.6	460
L840518		12.20	2.39	1.2	0.523	0.35	7.1	5.7	0.99	43	3.54	0.18	7.3	17.2	130
L840519		25.9	1.08	3.2	9.82	1.36	46.8	13.3	1.56	81	5.41	0.27	19.0	2.0	1020
L840520		14.55	0.53	1.7	0.183	2.19	40.9	19.5	0.39	91	1.93	0.03	8.8	2.8	430
L840528		3.29	0.26	0.5	2.22	0.58	3.0	6.3	5.51	717	0.45	0.03	1.6	13.0	730
L840529		1.48	0.16	0.2	0.915	0.03	1.1	5.6	3.38	250	0.23	0.02	0.4	1.9	30



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		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.1	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
K191883		35.6	<0.002	0.39	57.1	6.7	112	11.3	50.9	0.51	10.15	4.1	0.217	0.92	1.6
K191884		26.5	<0.002	0.20	61.2	7.6	81	11.2	58.9	0.57	39.3	7.2	0.257	3.57	2.1
K191885		59.1	<0.002	0.05	42.3	9.5	53	27.9	50.3	0.73	4.22	5.4	0.330	1.16	1.7
K191886		67.7	<0.002	1.48	3.10	24.0	5	0.7	213	0.68	0.20	7.4	0.381	0.94	2.0
K191887		4.9	0.005	7.56	400	9.4	547	28.1	69.4	0.75	144.5	7.4	0.308	0.38	3.1
K191888		71.3	0.002	0.44	1410	4.7	298	304	45.7	0.14	15.45	2.5	0.052	2.31	2.1
K191889		57.2	<0.002	1.41	198.0	12.7	540	16.4	55.5	0.48	19.05	6.2	0.225	1.85	1.0
K191890		334	<0.002	0.07	120.5	14.4	111	55.0	14.6	0.84	6.98	9.8	0.332	4.63	2.5
K191891		9.7	<0.002	0.21	25.6	1.7	47	10.8	73.2	0.10	1.42	2.1	0.037	0.31	1.7
K191892		26.5	0.004	0.27	77.6	10.4	28	19.9	163.0	0.72	5.04	6.4	0.287	0.57	2.1
K191893		64.3	0.004	0.30	132.0	12.8	38	26.3	252	0.85	1.44	13.8	0.335	1.39	4.0
K191894		96.1	<0.002	7.33	533	3.1	450	106.5	2.7	0.39	6.88	2.9	0.164	1.49	1.2
K191895		16.3	<0.002	8.53	367	6.8	617	7.4	107.5	0.34	112.0	5.6	0.143	1.31	1.7
K191896		78.4	0.002	0.50	1310	33.2	287	382	160.5	0.79	6.71	20.0	0.351	1.82	3.6
K191897		449	<0.002	0.29	248	42.5	60	40.6	180.0	1.01	8.39	17.9	0.385	176.5	5.2
K191898		361	0.002	0.19	110.0	21.1	113	43.4	99.5	0.78	3.37	11.8	0.325	24.4	3.3
K191899		2.3	<0.002	0.10	223	17.0	188	480	172.0	0.61	2.52	8.9	0.254	1.24	2.1
K191900		165.5	0.003	0.89	8.14	13.2	5	4.5	97.0	0.91	<0.05	13.8	0.367	1.68	3.5
L840501		1.4	0.006	5.33	7970	7.1	845	>500	36.6	0.24	145.0	19.0	0.104	1.18	66.8
L840502		1.1	<0.002	0.55	36.7	0.8	8	12.2	2.6	<0.05	0.41	0.5	0.010	0.08	0.4
L840503		1.0	<0.002	0.41	4810	0.3	56	66.6	1.6	<0.05	1.35	0.3	0.005	0.23	0.3
L840504		11.3	<0.002	6.94	2490	0.6	>1000	7.1	11.9	<0.05	229	0.7	0.018	0.53	0.3
L840505		3.0	<0.002	0.05	32.3	4.3	10	2.3	25.0	0.08	0.25	1.8	0.028	0.10	10.7
L840506		4.4	0.003	>10.0	556	1.2	399	227	11.6	<0.05	26.0	0.7	<0.005	0.24	8.3
L840507		41.2	<0.002	5.04	367	55.9	659	32.9	20.8	0.12	21.2	22.5	0.062	0.65	2.0
L840508		62.5	<0.002	0.19	790	14.2	62	205	141.5	0.72	4.03	6.7	0.296	12.50	4.0
L840509		26.2	<0.002	3.95	322	6.3	546	22.7	13.6	0.18	7.94	3.5	0.078	0.93	1.0
L840510		171.0	<0.002	2.04	666	11.6	711	130.0	34.1	0.80	7.93	9.2	0.306	2.77	2.0
L840511		37.2	0.002	6.32	998	3.8	539	88.5	33.2	0.22	5.97	10.3	0.089	2.20	3.2
L840512		49.8	<0.002	0.56	699	9.4	489	261	114.0	0.72	9.38	10.1	0.288	2.47	2.6
L840513		1.6	<0.002	0.22	1435	14.2	63	283	270	1.14	1.29	6.7	0.420	3.91	5.2
L840514		96.3	<0.002	0.44	3830	11.6	459	>500	121.0	0.66	4.82	10.5	0.253	8.33	6.0
L840515		83.1	0.004	1.39	3620	11.0	276	12.3	61.2	0.70	10.25	11.5	0.278	1.24	3.5
L840516		1.9	<0.002	>10.0	775	1.1	>1000	2.6	19.3	<0.05	228	2.6	0.021	0.47	0.9
L840517		56.9	0.002	6.29	521	9.6	490	18.2	71.5	0.62	72.4	7.6	0.234	0.92	2.5
L840518		37.8	<0.002	7.85	596	8.6	630	17.6	57.3	0.53	121.0	8.0	0.203	0.60	1.5
L840519		144.5	0.002	0.38	715	16.5	289	41.8	110.0	1.28	23.3	14.4	0.470	3.00	3.2
L840520		237	<0.002	1.63	432	8.8	99	207	40.3	0.63	3.68	9.1	0.238	3.20	2.2
L840528		25.3	<0.002	2.53	110.5	3.0	63	125.5	19.5	0.11	1.12	2.2	0.033	0.51	1.1
L840529		1.9	<0.002	0.32	418	0.9	33	470	7.6	<0.05	11.20	0.9	0.010	0.17	0.4



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**CERTIFICATE OF ANALYSIS WH12155822**

Sample Description	Method Analyte Units LOR	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.001	Au-AA23 Au ppm 0.005
K191883		0.5	3.1	39	55.2			0.044
K191884		0.4	5.4	57	61.4	128		0.097
K191885		0.9	4.5	28	74.4			<0.005
K191886		0.4	24.3	114	48.4			<0.005
K191887		0.4	7.4	144	38.7			0.243
K191888		0.6	37.5	356	6.2	488	3.06	0.193
K191889		0.4	1.8	202	41.4			0.066
K191890		1.4	3.6	59	89.4			0.014
K191891		0.3	11.0	73	11.8			<0.005
K191892		1.0	6.5	29	68.1			0.017
K191893		0.8	6.6	49	82.6			<0.005
K191894		0.8	2.7	86	36.5			0.309
K191895		0.3	8.0	128	34.4			0.380
K191896		1.4	26.1	373	79.8	162	2.94	0.093
K191897		1.1	13.9	175	102.0	117		0.023
K191898		1.2	9.8	132	88.4	138		0.011
K191899		1.4	4.6	187	63.4	323		0.045
K191900		1.4	21.8	103	98.6			<0.005
L840501		4.9	2.3	288	50.0	1050	2.10	0.224
L840502		0.1	1.6	2330	3.9			<0.005
L840503		0.1	0.8	468	1.9			0.116
L840504		0.5	0.9	83	3.7	692		0.183
L840505		0.3	38.1	1540	12.6			<0.005
L840506		0.7	1.9	128	1.0	192	1.060	0.429
L840507		0.3	4.9	663	17.1	673		0.174
L840508		0.5	4.4	79	68.3	311		0.014
L840509		0.4	1.2	414	10.3			0.041
L840510		1.6	5.2	167	58.6	141		0.037
L840511		0.6	1.9	149	19.5	205		0.248
L840512		0.7	6.7	380	62.5	393	1.345	0.271
L840513		0.8	6.3	185	103.0		1.465	0.048
L840514		0.8	20.8	388	66.4	485	2.01	0.189
L840515		1.1	10.7	46	77.7			0.245
L840516		0.1	1.9	153	4.8	363		2.67
L840517		0.5	3.4	237	50.8			0.141
L840518		0.4	2.6	152	45.5			0.238
L840519		0.9	8.6	232	126.5	261	2.40	0.019
L840520		2.1	14.7	209	60.1			0.132
L840528		0.3	25.8	491	23.0			<0.005
L840529		0.1	5.1	161	7.5			0.031



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**CERTIFICATE OF ANALYSIS WH12155822**

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
L840530		0.43	7.69	0.80	116.0	40	0.46	80.2	3.94	5.06	11.30	0.5	15	0.25	21.7	2.58
L840531		0.42	56.4	3.12	>10000	470	0.26	330	0.45	3.91	45.0	22.8	41	1.78	171.0	13.25
L840532		0.57	3.03	0.49	397	60	0.25	14.15	1.50	1.06	6.86	0.4	17	0.26	17.7	2.57
L840533		0.20	8.75	1.80	543	190	0.65	7.37	2.60	14.10	9.88	1.6	22	0.53	12.8	2.61
L840534		0.40	51.0	1.35	85.1	270	0.25	21.6	0.70	108.0	44.3	6.8	24	0.68	61.6	4.68
L840535		0.46	20.0	1.19	256	760	0.26	2.55	0.03	0.25	10.15	0.4	28	1.04	13.6	0.99
L840536		0.99	>100	1.00	>10000	50	0.28	17.90	0.06	0.91	0.87	61.0	10	0.12	30.0	24.7
L840537		0.42	56.1	4.02	>10000	110	1.28	23.0	0.23	8.99	6.01	1.7	38	0.65	31.9	9.95
L840538		0.44	38.6	5.57	>10000	90	1.67	23.7	0.33	4.29	7.87	2.4	59	0.65	32.8	6.96
L840539		0.51	7.99	2.36	2360	1250	2.63	0.81	0.08	10.55	98.8	3.2	21	9.14	343	17.55



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**CERTIFICATE OF ANALYSIS WH12155822**

Sample Description	Method Analyte Units LOR	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	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
L840530		4.93	0.53	0.6	3.21	0.17	6.5	7.2	6.10	463	0.50	0.02	2.1	1.3	110	1690
L840531		7.22	1.42	1.4	0.331	2.75	24.4	10.0	0.65	46	1.23	0.05	11.1	26.0	170	592
L840532		2.21	0.09	0.4	0.879	0.20	3.9	5.9	2.15	233	0.47	0.01	1.8	1.8	90	91.6
L840533		5.80	0.11	0.8	0.556	0.55	5.7	6.4	3.72	274	0.85	0.08	3.3	6.6	200	1715
L840534		5.31	0.44	0.5	1.680	0.99	22.2	9.7	1.38	160	1.48	0.01	2.2	28.4	1640	3710
L840535		2.71	0.09	0.6	0.020	0.57	7.2	16.1	0.07	48	1.02	0.01	2.3	2.6	570	1835
L840536		3.18	3.18	0.5	0.158	0.02	0.5	2.1	0.32	15	1.17	0.06	2.2	64.2	170	376
L840537		13.20	0.71	1.9	0.097	0.06	3.0	8.3	1.34	60	1.18	0.28	6.7	4.1	820	409
L840538		17.55	0.80	3.1	0.072	0.14	4.2	10.2	1.84	76	1.52	0.37	9.7	5.6	1420	567
L840539		4.83	0.40	0.7	0.123	0.65	46.5	27.3	0.10	146	4.73	0.02	2.9	35.9	4320	1430



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**CERTIFICATE OF ANALYSIS WH12155822**

Sample Description	Method Analyte Units LOR	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1
L840530		7.9	<0.002	0.53	1470	3.0	135	9.9	15.3	0.08	1.91	2.2	0.047	0.13	0.7	96
L840531		102.5	<0.002	6.17	624	4.6	354	8.5	60.2	0.52	36.4	5.3	0.173	1.41	1.8	164
L840532		10.7	<0.002	0.16	41.5	3.0	22	8.6	9.8	0.09	0.32	1.5	0.032	0.13	0.5	57
L840533		17.3	<0.002	0.22	742	4.0	10	17.9	40.3	0.22	0.27	3.0	0.088	0.28	1.0	100
L840534		35.7	<0.002	2.23	62.1	1.5	96	8.3	24.7	0.16	1.37	3.4	0.047	0.71	1.6	93
L840535		32.4	<0.002	0.19	35.0	0.9	6	12.9	29.2	0.15	0.17	2.7	0.057	0.45	0.9	64
L840536		1.0	<0.002	>10.0	424	1.1	940	18.6	52.1	0.12	265	1.9	0.044	0.06	0.3	52
L840537		4.1	<0.002	0.18	204	5.8	188	25.0	215	0.47	143.5	8.6	0.160	0.17	1.2	213
L840538		6.6	<0.002	0.44	162.0	7.6	241	35.1	387	0.69	96.3	14.2	0.249	0.21	1.9	222
L840539		43.4	<0.002	0.06	273	1.4	13	11.6	247	0.19	1.35	3.4	0.067	0.52	3.6	129





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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Pb-OG62	Au-AA23
		W	Y	Zn	Zr	Ag	Pb	Au
		ppm 0.1	ppm 0.1	ppm 2	ppm 0.5	ppm 1	% 0.001	ppm 0.005
L840530		2.1	10.0	282	23.8			0.009
L840531		1.8	12.5	138	56.0			0.100
L840532		0.2	4.6	145	12.7			<0.005
L840533		1.4	6.8	1120	28.5			<0.005
L840534		0.6	15.3	5910	15.4			<0.005
L840535		0.3	1.9	21	20.9			<0.005
L840536		0.2	0.7	44	16.6	105		0.563
L840537		0.5	5.5	184	68.8			0.816
L840538		0.8	6.2	199	100.5			0.265
L840539		0.9	29.7	1220	20.8			0.013

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



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**CERTIFICATE OF ANALYSIS WH12155822**

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