



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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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: 13-SEP-2012
Account: RANSIL

CERTIFICATE WH12195451

Project: KEG-Northwest

P.O. No.:

This report is for 50 Soil samples submitted to our lab in Whitehorse, YT, Canada on 20-AUG-2012.

The following have access to data associated with this certificate:

MATT DUMALA

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	51 anal. aqua regia ICPMS	

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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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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CERTIFICATE OF ANALYSIS WH12195451

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ40401		0.21	0.004	0.57	1.38	35.9	<0.2	<10	270	0.67	0.27	0.27	0.69	27.9	12.5	23
ZZ40402		0.13	0.005	0.26	1.49	31.7	<0.2	<10	240	0.53	0.36	0.26	0.38	19.65	6.7	28
ZZ40403		0.23	0.003	0.32	1.59	21.1	<0.2	<10	180	0.77	0.43	0.20	1.37	23.2	4.7	29
ZZ40404		0.18	0.002	0.15	1.68	30.6	<0.2	<10	200	0.73	0.45	0.26	0.90	23.1	23.2	29
ZZ40405		0.20	0.001	0.22	2.14	28.5	<0.2	<10	240	0.90	0.37	0.16	1.13	24.4	6.4	29
ZZ40406		0.18	0.001	0.28	1.45	13.5	<0.2	<10	280	0.63	0.28	0.17	0.79	20.2	3.4	21
ZZ40407		0.17	0.003	0.34	2.11	32.1	<0.2	<10	320	0.84	0.36	0.16	0.61	21.2	10.9	28
ZZ40408		0.19	0.002	0.34	1.34	16.0	<0.2	<10	190	0.52	0.29	0.20	0.76	11.50	11.4	16
ZZ40409		0.25	0.003	0.28	2.18	38.1	<0.2	<10	280	0.71	0.72	0.24	0.59	28.5	6.0	36
ZZ40410		0.16	0.001	0.25	1.43	24.0	<0.2	<10	190	0.57	0.24	0.15	0.58	17.35	5.3	19
ZZ40411		0.24	0.002	0.23	1.66	25.1	<0.2	<10	180	0.63	0.27	0.11	0.83	25.4	7.3	24
ZZ40412		0.20	0.003	0.14	1.72	22.0	<0.2	<10	170	0.61	0.30	0.12	0.76	27.0	8.6	28
ZZ40413		0.21	0.001	0.31	1.60	21.5	<0.2	<10	200	0.49	0.32	0.07	0.55	22.7	5.0	23
ZZ40414		0.19	0.004	0.54	1.93	33.4	<0.2	<10	350	0.85	0.39	0.17	1.29	29.4	9.4	28
ZZ40415		0.20	0.001	0.10	1.39	28.0	<0.2	<10	280	0.52	0.45	0.12	0.45	23.8	8.6	25
ZZ40416		0.24	<0.001	0.18	2.02	34.1	<0.2	<10	230	0.80	0.35	0.13	1.02	25.8	6.1	31
ZZ40417		0.15	0.001	0.12	1.98	14.7	<0.2	<10	250	0.62	0.30	0.19	0.34	25.7	7.8	30
ZZ40418		0.23	0.002	0.32	2.03	35.8	<0.2	<10	370	0.65	0.57	0.15	0.29	22.1	10.7	31
ZZ40419		0.22	0.003	0.10	2.43	35.6	<0.2	<10	310	0.97	0.42	0.25	0.46	29.2	7.3	51
ZZ40420		0.26	0.002	0.11	1.68	17.4	<0.2	<10	240	0.52	0.35	0.22	0.61	26.8	7.7	33
ZZ40421		0.19	0.002	0.18	1.76	19.7	<0.2	<10	250	0.61	0.32	0.13	0.42	18.15	6.7	30
ZZ40422		0.22	0.003	0.18	1.93	14.4	<0.2	<10	220	0.61	0.29	0.16	0.40	23.1	4.7	32
ZZ40423		0.20	0.003	0.15	1.94	15.6	<0.2	<10	210	0.65	0.32	0.19	0.61	25.5	6.1	33
ZZ40424		0.17	0.003	0.28	1.55	16.6	<0.2	<10	260	0.62	0.21	0.32	0.53	18.55	5.6	23
ZZ40425		0.13	0.007	0.50	3.00	28.3	<0.2	<10	530	1.04	0.41	0.56	0.72	30.4	10.2	47
ZZ40426		0.21	0.006	0.29	2.11	26.7	<0.2	<10	410	0.78	0.35	0.40	0.40	24.6	6.0	34
ZZ40427		0.16	0.004	0.61	2.08	20.4	<0.2	<10	480	0.82	0.53	0.38	0.40	22.9	5.9	26
ZZ40428		0.19	0.002	0.18	1.87	29.8	<0.2	<10	300	0.75	0.33	0.25	0.51	24.6	8.0	32
ZZ40429		0.19	0.007	0.25	1.16	10.1	<0.2	<10	190	0.35	0.17	0.13	0.43	15.35	2.7	20
ZZ40430		0.21	0.006	0.12	1.70	17.7	<0.2	<10	250	0.72	0.27	0.19	0.51	23.8	6.8	27
ZZ40431		0.20	0.002	0.27	1.84	13.8	<0.2	<10	350	0.71	0.28	0.29	0.52	20.8	4.5	32
ZZ40432		0.28	0.002	0.15	1.20	20.1	<0.2	<10	350	0.40	0.27	0.19	0.35	20.4	4.7	23
ZZ40433		0.17	0.005	0.18	1.43	25.5	<0.2	<10	260	0.61	0.30	0.12	0.72	27.2	5.3	32
ZZ40434		0.20	0.008	0.29	1.79	32.3	<0.2	<10	340	0.64	0.29	0.23	0.57	26.8	10.1	27
ZZ40435		0.21	0.004	0.54	1.95	29.6	<0.2	<10	360	0.77	0.31	0.37	0.88	27.3	9.1	29
ZZ40436		0.19	0.002	0.31	1.78	18.6	<0.2	<10	210	0.61	0.37	0.19	0.85	17.35	5.6	31
ZZ40437		0.14	0.002	0.41	1.26	24.7	<0.2	<10	700	0.64	0.39	0.22	0.68	22.6	4.8	21
ZZ40438		0.20	0.002	0.43	2.35	29.9	<0.2	<10	450	0.96	0.30	0.36	0.69	31.4	11.6	36
ZZ40439		0.16	0.003	0.16	1.19	39.4	<0.2	<10	170	0.33	0.36	0.09	0.34	22.2	3.7	21
ZZ40440		0.19	0.008	0.42	2.04	25.1	<0.2	<10	530	1.01	0.34	0.64	0.59	29.3	8.6	41



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CERTIFICATE OF ANALYSIS WH12195451

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ40401		2.52	70.2	2.02	3.84	0.07	0.04	0.06	0.026	0.08	14.6	17.8	0.51	443	2.50
ZZ40402		2.90	37.8	1.96	5.55	<0.05	<0.02	0.29	0.022	0.09	10.4	16.3	0.51	322	2.32
ZZ40403		3.01	97.3	1.84	5.74	<0.05	<0.02	0.05	0.023	0.08	12.8	12.6	0.43	147	2.50
ZZ40404		3.02	85.0	2.28	5.24	0.05	0.02	0.03	0.026	0.11	12.6	18.4	0.59	463	3.07
ZZ40405		3.46	36.6	2.36	6.15	<0.05	<0.02	0.03	0.029	0.08	13.2	17.5	0.51	274	2.57
ZZ40406		2.30	17.9	1.66	4.79	<0.05	<0.02	0.05	0.019	0.06	11.2	10.9	0.28	172	1.59
ZZ40407		4.10	48.2	2.45	5.88	<0.05	<0.02	0.06	0.032	0.09	11.9	17.3	0.43	287	4.18
ZZ40408		5.30	32.4	1.59	4.11	<0.05	<0.02	0.06	0.015	0.05	5.8	11.5	0.27	462	2.90
ZZ40409		3.55	29.9	2.76	6.91	<0.05	<0.02	0.08	0.034	0.15	15.1	22.0	0.72	233	2.55
ZZ40410		2.44	24.1	1.85	3.69	<0.05	0.02	0.08	0.024	0.09	9.1	13.9	0.32	217	1.73
ZZ40411		2.28	22.3	2.36	4.37	<0.05	0.03	0.08	0.026	0.09	12.4	16.4	0.33	305	2.76
ZZ40412		2.57	19.7	2.70	5.02	<0.05	<0.02	0.07	0.030	0.10	13.0	21.2	0.45	572	2.30
ZZ40413		2.21	21.7	2.99	5.15	<0.05	0.04	0.08	0.029	0.08	12.2	11.3	0.24	320	3.47
ZZ40414		2.65	33.1	2.91	4.86	<0.05	0.07	0.19	0.033	0.11	14.7	20.2	0.40	357	3.76
ZZ40415		3.51	22.1	2.68	6.44	<0.05	<0.02	0.03	0.023	0.10	12.5	12.4	0.40	503	3.22
ZZ40416		2.73	24.1	2.95	6.30	<0.05	<0.02	0.06	0.032	0.10	13.5	18.3	0.41	258	2.85
ZZ40417		1.87	16.0	2.83	5.77	<0.05	<0.02	0.04	0.030	0.09	13.2	17.9	0.49	442	2.18
ZZ40418		3.78	28.2	2.52	6.70	<0.05	<0.02	0.07	0.022	0.08	12.0	16.3	0.53	267	2.37
ZZ40419		3.52	39.6	2.79	8.92	0.06	0.02	0.02	0.027	0.15	16.6	32.9	1.00	275	3.27
ZZ40420		2.26	24.6	2.51	5.51	<0.05	<0.02	0.04	0.026	0.09	13.5	17.6	0.56	330	2.65
ZZ40421		3.96	25.5	2.37	6.96	<0.05	<0.02	0.03	0.022	0.08	10.4	11.1	0.37	432	3.66
ZZ40422		2.79	27.9	2.28	6.55	<0.05	<0.02	0.06	0.024	0.09	12.7	15.8	0.49	217	2.78
ZZ40423		2.56	22.8	2.49	6.67	<0.05	<0.02	0.05	0.020	0.12	14.5	17.6	0.55	277	2.18
ZZ40424		2.31	21.1	1.79	5.19	<0.05	<0.02	0.04	0.019	0.07	10.1	13.5	0.43	598	1.85
ZZ40425		3.50	54.2	3.00	8.25	0.07	0.03	0.06	0.034	0.22	17.0	30.1	1.02	431	2.51
ZZ40426		3.26	51.1	2.40	6.67	0.05	<0.02	0.08	0.029	0.14	13.8	19.6	0.65	234	2.67
ZZ40427		2.62	36.0	2.34	5.26	0.06	<0.02	0.10	0.024	0.14	13.3	16.2	0.55	185	1.86
ZZ40428		3.04	26.0	2.74	5.66	0.05	<0.02	0.05	0.029	0.13	13.0	24.9	0.61	405	2.82
ZZ40429		2.00	16.4	1.39	4.54	<0.05	<0.02	0.04	0.013	0.06	8.7	8.5	0.27	121	1.48
ZZ40430		2.16	30.5	2.44	4.97	<0.05	<0.02	0.08	0.027	0.10	13.2	16.2	0.44	301	2.73
ZZ40431		2.66	32.9	2.03	5.99	<0.05	<0.02	0.06	0.021	0.12	12.5	18.5	0.52	211	2.62
ZZ40432		2.49	21.4	2.15	4.92	<0.05	<0.02	0.04	0.020	0.09	10.9	9.4	0.30	294	3.00
ZZ40433		2.25	29.6	2.57	5.22	0.05	<0.02	0.08	0.026	0.09	14.7	15.4	0.44	226	3.28
ZZ40434		3.17	27.5	2.76	5.00	0.05	0.03	0.09	0.034	0.10	13.5	22.9	0.90	514	3.07
ZZ40435		3.95	25.3	2.82	5.30	0.05	0.02	0.12	0.032	0.10	14.2	21.7	0.55	347	2.97
ZZ40436		2.76	25.3	2.32	6.39	<0.05	<0.02	0.04	0.024	0.08	8.6	24.9	0.53	214	2.88
ZZ40437		2.78	37.4	2.16	5.19	<0.05	<0.02	0.11	0.028	0.08	12.7	7.2	0.19	262	3.43
ZZ40438		3.16	25.6	2.89	6.35	<0.05	0.04	0.11	0.034	0.11	13.9	31.9	0.66	427	2.08
ZZ40439		1.61	16.3	2.09	6.39	<0.05	0.02	0.03	0.019	0.07	11.7	15.6	0.36	144	3.07
ZZ40440		2.39	83.8	2.49	6.77	0.07	0.02	0.08	0.031	0.11	16.6	25.3	0.80	235	2.54



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm 0.05	ppm 0.2	ppm 10	ppm 0.2	ppm 0.1	ppm 0.001	% 0.01	ppm 0.05	ppm 0.1	ppm 0.2	ppm 0.2	ppm 0.2	ppm 0.01	ppm 0.01	ppm 0.2
ZZ40401		0.83	32.5	1040	23.0	10.3	<0.001	0.01	3.67	2.8	1.0	1.0	27.4	<0.01	0.04	3.6
ZZ40402		0.48	24.3	990	13.9	17.2	0.001	0.02	2.07	1.3	0.8	1.1	24.5	<0.01	0.04	0.3
ZZ40403		0.37	23.6	1070	17.0	18.4	0.001	0.04	1.59	0.5	1.5	1.0	20.2	<0.01	0.04	<0.2
ZZ40404		0.61	44.0	1190	18.5	16.3	0.001	0.03	3.86	2.2	1.1	0.9	23.3	<0.01	0.06	0.9
ZZ40405		0.48	23.3	1050	22.1	25.1	<0.001	0.03	1.91	0.9	1.0	1.0	17.6	<0.01	0.04	0.3
ZZ40406		0.27	11.7	1060	13.7	21.8	<0.001	0.04	0.97	0.3	0.6	0.7	17.0	<0.01	0.01	<0.2
ZZ40407		0.42	38.5	1450	19.6	28.8	0.002	0.06	1.70	0.8	1.5	1.1	18.8	<0.01	0.04	0.2
ZZ40408		0.16	16.1	960	8.3	11.8	0.001	0.07	1.02	0.4	1.4	0.5	18.8	<0.01	0.03	<0.2
ZZ40409		0.77	25.1	1120	24.0	19.9	0.001	0.05	1.95	2.1	1.4	1.2	23.3	<0.01	0.04	0.5
ZZ40410		0.55	22.3	870	13.2	10.9	0.001	0.02	1.71	1.6	0.8	0.6	14.2	<0.01	0.04	0.5
ZZ40411		0.69	21.0	880	15.9	13.5	0.001	0.02	2.08	1.9	1.1	0.8	14.0	<0.01	0.05	0.8
ZZ40412		0.47	22.6	1050	14.8	15.1	<0.001	0.04	1.46	0.9	1.0	0.7	12.6	<0.01	0.03	0.4
ZZ40413		1.16	17.4	720	18.2	17.1	<0.001	0.01	1.74	2.8	1.3	0.8	10.3	<0.01	0.05	3.6
ZZ40414		0.83	33.4	1000	25.9	15.5	0.001	0.02	2.48	3.8	1.3	0.8	21.8	<0.01	0.05	4.3
ZZ40415		0.48	16.8	750	15.7	30.1	<0.001	0.04	1.51	0.9	0.8	1.0	17.5	<0.01	0.07	<0.2
ZZ40416		0.66	21.1	1660	25.4	18.2	<0.001	0.03	2.25	1.1	1.2	1.1	15.6	<0.01	0.04	0.3
ZZ40417		0.82	18.6	1060	15.3	20.1	<0.001	0.02	0.93	1.9	0.9	0.8	18.1	<0.01	0.03	0.6
ZZ40418		0.33	24.4	1140	14.8	18.1	0.001	0.06	1.46	0.6	0.9	0.9	19.6	<0.01	0.03	<0.2
ZZ40419		0.97	32.9	1180	19.4	18.8	0.001	0.03	2.22	4.2	1.4	4.0	27.1	<0.01	0.05	1.5
ZZ40420		0.36	25.0	980	13.6	18.8	0.002	0.03	1.39	1.2	1.0	0.7	22.8	<0.01	0.05	0.3
ZZ40421		0.24	18.2	1700	15.8	22.0	<0.001	0.12	1.51	0.3	1.0	0.9	24.2	<0.01	0.04	<0.2
ZZ40422		0.23	20.6	1200	11.5	17.8	<0.001	0.05	1.32	0.4	1.1	0.7	21.4	<0.01	0.04	0.2
ZZ40423		0.39	20.9	1140	11.3	24.7	<0.001	0.04	1.01	0.8	0.9	0.8	20.8	<0.01	0.02	0.2
ZZ40424		0.26	15.2	1220	11.1	13.3	<0.001	0.05	0.98	0.6	0.7	0.8	28.8	<0.01	0.01	<0.2
ZZ40425		1.69	40.2	1670	21.5	26.6	<0.001	0.03	1.52	5.0	0.9	0.9	41.6	<0.01	0.03	3.1
ZZ40426		0.47	27.8	1360	17.7	22.0	<0.001	0.04	1.96	1.4	1.3	0.9	38.8	<0.01	0.05	0.3
ZZ40427		0.76	25.2	850	11.0	20.0	<0.001	0.05	1.50	2.3	0.7	0.6	41.8	<0.01	0.02	0.5
ZZ40428		0.65	25.8	1130	23.6	21.6	0.001	0.02	1.99	2.1	1.3	0.9	27.0	<0.01	0.04	0.8
ZZ40429		0.14	11.4	1080	6.7	17.6	<0.001	0.05	0.72	0.2	0.4	0.6	16.7	<0.01	0.02	<0.2
ZZ40430		0.41	25.5	1200	13.4	19.6	0.001	0.03	1.56	1.2	1.2	0.7	22.2	<0.01	0.04	0.4
ZZ40431		0.36	21.9	1530	10.1	24.8	<0.001	0.04	1.09	0.9	0.8	0.7	27.3	<0.01	0.03	0.3
ZZ40432		0.24	17.3	880	11.9	21.6	<0.001	0.03	1.39	0.5	1.1	0.7	22.7	<0.01	0.05	<0.2
ZZ40433		0.41	23.8	800	14.2	14.2	0.001	0.03	2.26	1.3	1.3	0.6	18.3	<0.01	0.05	0.3
ZZ40434		0.73	28.9	930	19.7	14.7	0.001	0.01	2.89	3.0	1.3	0.9	22.5	<0.01	0.07	1.6
ZZ40435		0.69	28.1	1150	18.2	17.5	0.001	0.02	2.20	2.0	1.8	0.8	29.4	<0.01	0.04	0.9
ZZ40436		0.45	20.3	1510	26.3	16.1	0.001	0.07	1.14	0.7	1.3	0.7	25.5	<0.01	0.04	0.2
ZZ40437		0.21	21.0	1430	15.3	21.9	<0.001	0.08	2.27	0.4	1.0	0.9	23.7	<0.01	0.08	<0.2
ZZ40438		0.92	34.2	1310	19.5	16.8	0.001	0.05	1.72	2.8	1.3	0.9	28.9	<0.01	0.07	1.4
ZZ40439		1.28	15.3	480	16.7	11.9	<0.001	0.03	1.81	2.1	1.3	1.2	12.3	<0.01	0.06	2.8
ZZ40440		1.42	38.3	1900	11.9	12.5	<0.001	0.08	1.83	4.5	2.0	0.7	53.6	<0.01	0.06	3.9



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		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ40401		0.039	0.26	1.26	57	0.31	6.78	136	1.2
ZZ40402		0.037	0.25	1.22	77	0.47	4.65	100	<0.5
ZZ40403		0.023	0.28	2.93	79	1.27	6.01	110	<0.5
ZZ40404		0.045	0.22	1.82	81	0.31	5.91	273	0.5
ZZ40405		0.023	0.33	2.00	73	0.29	5.46	126	<0.5
ZZ40406		0.013	0.25	1.44	52	0.34	4.56	57	<0.5
ZZ40407		0.015	0.44	2.11	71	0.35	6.07	170	<0.5
ZZ40408		0.015	0.24	1.64	48	0.18	4.88	92	<0.5
ZZ40409		0.056	0.34	1.61	97	0.39	5.56	121	<0.5
ZZ40410		0.030	0.25	0.99	50	0.21	4.69	104	0.5
ZZ40411		0.026	0.29	1.28	60	0.34	5.35	116	<0.5
ZZ40412		0.026	0.27	1.12	63	0.24	4.90	131	<0.5
ZZ40413		0.026	0.36	1.06	81	0.24	3.49	99	1.2
ZZ40414		0.022	0.44	1.38	84	0.21	7.09	154	1.7
ZZ40415		0.032	0.33	1.04	80	0.24	4.19	98	<0.5
ZZ40416		0.027	0.34	1.44	80	0.26	5.31	105	<0.5
ZZ40417		0.040	0.22	1.30	58	0.34	5.22	88	<0.5
ZZ40418		0.021	0.31	1.54	74	0.25	4.68	133	<0.5
ZZ40419		0.084	0.30	2.02	163	0.26	6.59	194	1.1
ZZ40420		0.034	0.23	1.47	111	0.22	5.03	133	<0.5
ZZ40421		0.011	0.32	1.90	90	0.17	3.51	101	<0.5
ZZ40422		0.015	0.31	2.04	102	0.22	4.47	91	<0.5
ZZ40423		0.028	0.26	1.29	79	0.36	4.35	107	0.5
ZZ40424		0.029	0.20	1.34	72	0.18	5.46	77	<0.5
ZZ40425		0.104	0.30	2.04	114	0.33	9.40	153	0.9
ZZ40426		0.042	0.28	1.99	97	0.24	6.59	116	<0.5
ZZ40427		0.044	0.23	2.00	56	0.26	9.18	108	<0.5
ZZ40428		0.040	0.30	1.34	85	0.22	5.65	159	<0.5
ZZ40429		0.009	0.21	1.07	52	0.12	3.14	61	<0.5
ZZ40430		0.022	0.30	1.49	77	0.24	5.84	126	<0.5
ZZ40431		0.026	0.25	1.78	100	0.24	5.65	104	<0.5
ZZ40432		0.016	0.28	0.92	69	0.25	3.43	98	<0.5
ZZ40433		0.026	0.30	1.29	95	0.15	5.73	141	<0.5
ZZ40434		0.033	0.31	1.13	71	0.23	6.86	146	0.5
ZZ40435		0.027	0.31	2.09	72	0.29	6.96	185	<0.5
ZZ40436		0.020	0.22	1.13	95	0.19	4.44	84	<0.5
ZZ40437		0.008	0.28	1.45	68	0.28	8.01	113	<0.5
ZZ40438		0.038	0.27	1.48	82	0.47	9.20	128	0.8
ZZ40439		0.044	0.23	0.80	79	0.43	3.52	69	0.8
ZZ40440		0.075	0.26	1.96	86	0.29	10.70	123	1.2



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		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ40441		0.25	0.005	0.33	1.80	28.5	<0.2	<10	320	0.85	0.36	0.37	0.70	30.8	11.5	29
ZZ40442		0.19	0.005	0.32	1.67	28.0	<0.2	<10	360	0.94	0.34	0.21	0.87	30.9	10.4	23
ZZ40443		0.22	0.012	0.68	1.83	34.8	<0.2	<10	570	0.95	0.37	0.51	0.87	34.5	11.3	28
ZZ40444		0.20	0.003	0.10	1.49	11.7	<0.2	<10	140	0.36	0.25	0.11	0.36	21.1	5.2	22
ZZ40445		0.17	0.004	0.13	1.56	30.0	<0.2	<10	200	0.63	0.29	0.12	0.81	25.4	9.4	29
ZZ40446		0.15	0.003	0.27	1.06	11.6	<0.2	<10	270	0.40	0.16	0.15	0.34	15.25	3.5	15
ZZ40447		0.21	0.003	0.18	1.78	16.8	<0.2	<10	200	0.56	0.29	0.14	0.69	26.7	9.0	29
ZZ40448		0.22	0.003	0.08	1.42	25.8	<0.2	<10	300	0.63	0.33	0.09	0.61	23.1	5.5	22
ZZ40449		0.23	0.002	0.23	0.92	18.2	<0.2	<10	860	0.55	0.15	0.45	1.41	25.5	8.0	17
ZZ40450		0.18	0.002	0.18	0.82	13.6	<0.2	<10	130	0.25	0.29	0.06	0.19	22.0	3.1	13



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ZZ40441		0.94	37.8	1620	16.0	14.1	0.001	0.04	2.44	3.5	1.7	0.6	38.0	<0.01	0.07	3.9
ZZ40442		0.69	31.7	1180	20.9	12.8	0.001	0.04	2.17	2.6	1.8	0.7	23.3	<0.01	0.07	1.9
ZZ40443		0.56	44.1	1370	24.3	17.4	0.001	0.03	3.74	3.8	2.1	0.9	42.2	<0.01	0.09	2.0
ZZ40444		0.28	13.4	850	12.6	11.3	<0.001	0.05	0.84	0.6	0.9	0.6	11.6	<0.01	0.04	0.2
ZZ40445		0.42	23.4	1080	16.6	13.2	<0.001	0.04	2.21	1.4	1.1	0.8	17.6	<0.01	0.05	0.7
ZZ40446		0.13	11.2	980	7.2	11.4	0.001	0.06	0.92	0.3	0.9	0.6	14.8	<0.01	0.03	<0.2
ZZ40447		0.47	18.9	1010	13.6	16.2	<0.001	0.05	1.08	1.0	1.2	0.8	14.3	<0.01	0.02	0.4
ZZ40448		0.22	17.1	1230	15.5	21.8	0.001	0.08	1.91	0.3	1.5	1.1	15.6	<0.01	0.08	<0.2
ZZ40449		0.37	25.0	1350	11.2	10.5	0.004	0.06	1.83	3.1	1.9	0.7	51.4	<0.01	0.04	3.4
ZZ40450		0.50	11.0	430	10.1	9.2	<0.001	0.03	1.18	0.8	0.9	1.0	9.2	<0.01	0.05	0.2



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Sample Description	Method Analyte Units LOR	ME-MS41 Ti %	ME-MS41 Ti ppm	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ40441		0.035	0.27	1.88	79	0.32	8.80	156	1.9
ZZ40442		0.019	0.30	1.35	64	1.06	9.20	161	1.0
ZZ40443		0.016	0.37	1.57	82	0.20	12.45	239	0.5
ZZ40444		0.020	0.21	1.03	52	0.24	3.74	69	<0.5
ZZ40445		0.025	0.26	1.14	73	0.23	5.40	147	<0.5
ZZ40446		0.016	0.19	0.81	51	0.18	3.64	67	<0.5
ZZ40447		0.025	0.24	1.25	59	0.33	5.12	106	<0.5
ZZ40448		0.009	0.32	1.48	76	0.20	6.93	113	<0.5
ZZ40449		0.017	0.22	1.52	73	0.19	11.65	115	0.9
ZZ40450		0.026	0.21	0.57	66	0.57	2.44	64	<0.5



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Method	CERTIFICATE COMMENTS
ME-MS41	Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).