



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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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
 Total # Pages: 3 (A - D)
 Plus Appendix Pages
 Finalized Date: 17- JUL- 2017
 Account: RANSIL

CERTIFICATE WH17123196

Project: Michelle

This report is for 50 Rock samples submitted to our lab in Whitehorse, YT, Canada on 19-JUN- 2017.

The following have access to data associated with this certificate:

JOAN MARIACHER		
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Ag- OG46	Ore Grade Ag - Aqua Regia	ICP- AES
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Pb- OG46	Ore Grade Pb - Aqua Regia	ICP- AES
Zn- OG46	Ore Grade Zn - Aqua Regia	ICP- AES
ME- MS41	Ultra Trace Aqua Regia ICP- MS	

To: **SILVER RANGE RESOURCES LTD.**
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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 WH17123196

Sample Description	Method	WEI- 21	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
	Analyte	Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
Units		kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
LOR																
K293151		0.45	0.10	0.02	4.1	<0.02	<10	200	<0.05	0.01	20.6	31.1	1.00	0.2	1	0.12
K293152		0.98	2.40	0.01	5.4	<0.02	<10	80	<0.05	<0.01	17.35	125.0	0.96	0.1	<1	0.08
K293153		1.36	>100	0.04	143.5	<0.02	<10	70	<0.05	0.16	0.37	36.7	1.20	0.3	<1	<0.05
K293154		1.00	0.88	0.01	4.6	<0.02	<10	70	<0.05	0.01	19.45	160.5	1.02	0.2	<1	0.08
K293155		0.49	1.85	0.01	1.3	<0.02	<10	100	<0.05	0.01	21.6	25.2	0.33	0.2	<1	0.13
K293156		0.72	2.89	0.12	195.5	<0.02	<10	3430	1.72	0.22	2.98	29.8	7.99	8.4	73	0.06
K293157		0.98	0.06	0.68	2.7	<0.02	<10	100	0.27	0.09	0.06	0.21	16.70	10.1	10	0.29
K293158		0.66	0.03	0.07	20.9	<0.02	<10	80	0.06	0.01	24.2	0.16	19.05	0.9	3	0.13
K293159		0.72	0.02	0.04	14.4	<0.02	<10	30	<0.05	0.01	16.90	0.04	6.41	0.6	5	0.10
K293160		1.48	0.11	0.01	0.8	<0.02	<10	200	<0.05	<0.01	20.5	31.8	0.63	0.2	1	0.08
K293161		0.74	0.03	0.02	0.4	<0.02	<10	2290	<0.05	<0.01	0.63	0.35	1.98	0.1	1	<0.05
K293162		1.95	0.02	0.45	2.2	<0.02	<10	780	0.12	0.07	0.17	0.26	3.19	4.1	15	0.17
K293163		1.15	0.72	0.01	2.5	<0.02	<10	250	<0.05	<0.01	20.8	49.5	1.04	0.2	1	0.05
K293164		1.16	0.48	0.01	2.5	<0.02	<10	150	<0.05	<0.01	17.55	130.5	1.33	0.5	1	0.05
K293165		0.61	0.14	0.18	3.1	<0.02	<10	890	0.12	0.02	21.3	6.64	6.88	1.5	5	0.32
K293166		0.51	33.7	0.01	46.0	<0.02	<10	90	<0.05	0.01	0.20	771	0.95	0.2	<1	<0.05
K293167		1.27	0.22	1.50	5.6	<0.02	<10	40	0.42	1.42	0.13	0.75	10.75	17.0	16	0.31
K293168		1.22	1.72	0.02	3.3	<0.02	<10	80	<0.05	0.01	18.70	182.5	0.27	0.3	1	0.13
K293169		0.58	0.19	0.02	0.3	<0.02	<10	50	<0.05	0.02	23.3	0.55	0.59	0.3	1	0.05
K293170		0.93	0.02	0.01	0.2	<0.02	<10	90	<0.05	<0.01	24.8	0.36	1.25	0.2	1	<0.05
K293171		0.72	0.06	0.02	2.3	<0.02	<10	110	<0.05	0.01	>25.0	2.68	12.65	0.4	1	0.06
K293172		0.95	0.03	0.07	1.3	<0.02	<10	40	0.07	0.01	22.1	0.35	4.47	0.7	3	0.18
K293173		1.34	0.77	0.04	1590	<0.02	<10	100	0.13	0.01	15.20	0.14	9.52	0.8	3	0.12
K293174		1.76	0.02	0.08	2.8	<0.02	<10	40	0.07	<0.01	21.0	0.03	2.90	0.6	3	0.20
K293175		0.96	0.29	0.03	6.8	<0.02	<10	70	<0.05	0.01	18.50	6.77	3.00	0.8	1	0.07
K293176		1.92	>100	0.01	47.3	<0.02	<10	90	<0.05	0.03	9.42	351	0.99	0.4	1	<0.05
K293177		2.12	0.69	0.01	8.3	<0.02	<10	200	<0.05	<0.01	9.31	527	5.07	0.9	<1	<0.05
K293178		2.41	3.59	0.01	2.7	<0.02	<10	120	<0.05	0.01	>25.0	14.00	1.74	0.2	1	0.11
K293179		1.32	0.41	0.01	1.5	<0.02	<10	140	<0.05	<0.01	23.1	8.85	1.03	0.2	1	0.16
K293180		2.03	0.34	0.04	1.7	<0.02	<10	110	0.05	0.01	21.9	2.01	1.56	0.4	3	0.18
K293181		1.78	0.19	0.06	0.9	<0.02	<10	110	0.05	0.01	21.6	1.63	1.90	0.4	1	0.20
K293182		1.87	0.23	0.05	3.5	<0.02	<10	110	0.09	0.02	20.5	1.59	1.21	0.4	5	0.20
K293183		2.03	0.25	0.18	2.0	<0.02	<10	120	0.08	0.03	19.85	1.26	5.57	1.3	3	0.26
K293184		1.97	0.16	0.02	0.8	<0.02	<10	110	0.07	0.02	20.3	0.92	0.52	0.8	1	0.21
K293185		1.44	0.13	0.02	1.1	<0.02	<10	100	0.07	0.01	21.1	1.54	0.61	0.9	2	0.17
K293186		1.80	0.07	0.01	0.7	<0.02	<10	110	0.05	0.01	21.0	1.37	0.72	0.8	1	0.20
K293187		1.75	0.08	0.02	2.5	<0.02	<10	80	0.14	0.02	20.6	1.56	0.64	1.0	2	0.15
K293188		1.38	0.09	0.01	0.5	<0.02	<10	130	0.07	0.01	21.1	1.41	0.61	0.9	1	0.21
K293189		1.16	0.09	0.01	0.2	<0.02	<10	110	0.07	0.01	21.0	2.26	0.71	0.9	1	0.16
K293190		0.72	0.29	0.02	1.7	<0.02	<10	4460	0.11	0.01	22.6	2.35	1.30	1.0	3	0.09



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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	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		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	0.01	0.05
K293151		1.7	0.49	0.06	<0.05	<0.02	0.06	<0.005	0.01	0.6	0.2	11.80	1420	0.99	0.03	<0.05
K293152		7.7	1.02	0.08	<0.05	<0.02	0.11	<0.005	<0.01	0.6	0.1	10.00	2560	2.00	0.02	<0.05
K293153		49.7	38.9	17.30	12.25	<0.02	13.60	0.195	0.01	1.0	0.1	0.10	129	8.41	0.01	<0.05
K293154		162.5	0.75	0.58	<0.05	<0.02	0.58	0.248	<0.01	0.7	0.2	11.30	818	1.24	0.02	<0.05
K293155		1.1	0.11	<0.05	<0.05	<0.02	0.12	<0.005	<0.01	0.2	0.2	12.25	600	0.82	0.03	<0.05
K293156		320	10.90	3.86	0.08	0.04	0.89	0.734	0.01	7.5	0.2	0.68	277	51.0	<0.01	0.08
K293157		68.1	1.87	1.28	<0.05	0.08	0.01	0.024	0.11	8.7	6.7	0.18	405	0.29	0.02	<0.05
K293158		2.5	0.59	0.19	<0.05	0.05	0.01	0.017	0.04	10.2	0.4	8.94	102	11.80	0.03	<0.05
K293159		1.9	0.69	0.12	<0.05	0.04	<0.01	<0.005	0.02	3.4	0.4	8.03	105	6.96	0.02	<0.05
K293160		3.3	0.33	0.21	<0.05	<0.02	0.78	0.036	0.01	0.4	0.1	11.70	442	1.05	0.02	<0.05
K293161		2.5	0.03	0.05	<0.05	0.02	0.05	0.007	<0.01	1.7	0.1	0.19	11	0.07	<0.01	<0.05
K293162		5.6	1.32	0.96	<0.05	0.03	0.01	0.011	0.02	1.6	5.4	0.21	187	0.17	0.02	<0.05
K293163		2.0	0.79	1.87	<0.05	<0.02	0.51	0.013	<0.01	0.7	0.1	12.15	1210	4.07	0.02	<0.05
K293164		10.3	1.18	3.36	<0.05	<0.02	0.52	0.062	<0.01	0.9	0.2	10.10	3050	1.63	0.01	<0.05
K293165		16.5	0.32	0.49	<0.05	0.09	0.17	0.005	0.05	5.5	0.6	11.15	350	2.19	0.02	0.05
K293166		17.1	20.0	0.11	0.15	<0.02	0.97	<0.005	<0.01	0.6	0.1	0.34	3780	4.96	<0.01	<0.05
K293167		350	3.32	2.92	<0.05	0.08	<0.01	0.181	0.09	5.7	12.6	0.63	277	0.16	0.02	<0.05
K293168		31.9	1.14	0.71	0.15	<0.02	2.55	0.173	<0.01	0.2	0.2	10.85	2080	2.85	0.02	<0.05
K293169		1.9	0.07	0.07	<0.05	<0.02	0.04	<0.005	<0.01	0.4	0.1	11.05	210	0.21	0.02	<0.05
K293170		0.6	0.02	<0.05	<0.05	<0.02	0.01	<0.005	<0.01	0.7	<0.1	9.86	158	0.10	0.02	<0.05
K293171		5.2	0.19	0.14	<0.05	0.02	0.05	0.021	0.01	7.7	0.2	1.31	751	0.32	0.01	<0.05
K293172		1.2	0.18	0.18	<0.05	0.03	0.01	<0.005	0.04	2.5	0.7	10.75	127	0.23	0.02	<0.05
K293173		59.8	33.6	0.18	0.09	0.05	0.51	0.056	0.02	3.6	0.1	0.26	966	7.95	0.01	<0.05
K293174		1.3	0.21	0.17	<0.05	0.04	0.01	<0.005	0.04	1.6	0.8	10.80	121	0.54	0.02	<0.05
K293175		2.9	7.20	0.13	<0.05	0.02	0.11	<0.005	0.01	1.7	0.3	10.35	1030	2.60	0.02	<0.05
K293176		158.5	4.64	85.4	0.81	<0.02	7.18	1.430	<0.01	0.9	0.1	5.44	3220	8.13	0.01	<0.05
K293177		78.4	3.80	2.32	0.05	<0.02	0.31	0.146	<0.01	3.0	0.1	5.24	4350	11.35	0.01	<0.05
K293178		7.1	0.24	3.10	<0.05	<0.02	0.27	0.046	<0.01	1.1	0.2	7.55	622	0.62	0.02	<0.05
K293179		4.6	0.18	0.18	<0.05	<0.02	0.03	0.006	0.01	0.7	0.3	10.65	865	0.46	0.02	<0.05
K293180		10.4	0.20	0.61	<0.05	<0.02	0.03	0.028	0.01	1.0	0.4	11.00	710	0.83	0.02	<0.05
K293181		4.2	0.17	0.25	<0.05	<0.02	0.03	0.010	0.01	1.1	0.6	11.55	826	0.32	0.03	0.05
K293182		7.2	0.55	0.79	<0.05	<0.02	0.03	0.022	0.01	0.7	0.5	11.70	1240	1.50	0.02	0.06
K293183		8.1	0.37	0.61	<0.05	0.02	0.03	0.012	0.03	3.1	1.2	10.20	752	0.37	0.03	0.18
K293184		8.8	0.09	0.22	<0.05	<0.02	0.03	0.026	0.01	0.3	0.9	11.55	961	0.22	0.02	<0.05
K293185		7.7	0.14	0.61	<0.05	<0.02	0.02	0.070	0.01	0.4	0.9	11.10	816	0.57	0.02	<0.05
K293186		4.9	0.08	0.25	<0.05	<0.02	0.02	0.019	0.01	0.5	0.9	11.05	672	0.27	0.02	<0.05
K293187		8.1	0.23	0.33	<0.05	0.02	0.01	0.017	0.01	0.4	0.8	11.50	454	0.33	0.02	<0.05
K293188		4.6	0.06	0.21	<0.05	<0.02	0.01	0.013	0.01	0.4	1.1	11.90	600	0.23	0.02	<0.05
K293189		4.5	0.06	0.09	<0.05	<0.02	0.01	0.008	0.01	0.5	0.9	11.50	402	0.11	0.02	<0.05
K293190		43.6	0.11	0.10	<0.05	0.04	0.19	0.042	<0.01	0.9	0.6	9.75	234	0.78	0.01	<0.05



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		Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
K293151		1.1	40	49.6	0.3	<0.001	0.01	0.37	0.1	0.8	<0.2	118.0	<0.01	<0.01	<0.2	<0.005
K293152		2.0	130	415	0.2	<0.001	0.01	2.29	<0.1	1.1	<0.2	102.5	<0.01	0.01	<0.2	<0.005
K293153		18.9	120	>10000	0.3	<0.001	0.18	136.5	0.1	1.3	2.6	29.6	<0.01	0.03	<0.2	<0.005
K293154		1.9	50	735	0.2	<0.001	0.03	1.34	0.1	0.7	<0.2	69.8	<0.01	0.01	<0.2	<0.005
K293155		0.3	30	8350	0.3	<0.001	0.10	0.86	0.1	0.4	<0.2	75.3	<0.01	<0.01	<0.2	<0.005
K293156		648	2820	1915	0.3	0.002	0.08	230	5.5	3.6	1.4	44.2	<0.01	0.11	0.2	<0.005
K293157		19.4	30	47.8	4.9	<0.001	0.01	0.52	0.8	0.4	<0.2	6.1	<0.01	0.01	2.4	<0.005
K293158		4.7	70	14.2	1.4	<0.001	0.05	0.77	1.1	0.4	<0.2	201	<0.01	0.01	0.4	<0.005
K293159		3.2	50	13.6	0.9	<0.001	0.07	0.24	0.7	0.3	<0.2	121.0	<0.01	<0.01	0.3	<0.005
K293160		1.2	80	34.2	0.3	<0.001	0.01	0.24	0.1	0.7	0.2	90.8	<0.01	<0.01	<0.2	<0.005
K293161		4.4	80	13.8	0.2	<0.001	0.06	0.55	0.1	<0.2	<0.2	55.0	<0.01	0.01	<0.2	<0.005
K293162		4.7	30	8.6	1.0	<0.001	0.02	0.24	0.3	<0.2	<0.2	8.3	<0.01	<0.01	0.8	<0.005
K293163		6.0	80	234	0.1	<0.001	0.01	2.60	0.1	1.2	<0.2	81.9	<0.01	<0.01	<0.2	<0.005
K293164		7.3	80	96.9	0.2	<0.001	<0.01	0.83	0.1	5.2	0.6	58.4	<0.01	<0.01	<0.2	<0.005
K293165		36.9	610	36.2	2.5	<0.001	0.02	2.25	0.9	0.6	<0.2	110.0	<0.01	0.02	0.7	<0.005
K293166		2.1	30	139.0	0.1	<0.001	0.06	1.91	0.2	14.9	<0.2	1.7	<0.01	0.04	<0.2	<0.005
K293167		15.7	80	4.3	3.7	<0.001	0.04	0.22	0.8	0.3	0.2	7.4	<0.01	0.02	2.2	<0.005
K293168		19.3	30	758	0.3	<0.001	0.01	4.58	0.1	1.2	1.7	65.3	<0.01	0.01	<0.2	<0.005
K293169		<0.2	10	177.0	0.2	<0.001	0.01	0.22	0.1	0.6	<0.2	116.0	<0.01	<0.01	<0.2	<0.005
K293170		<0.2	110	13.7	0.1	<0.001	<0.01	0.06	0.1	0.3	<0.2	142.0	<0.01	<0.01	<0.2	<0.005
K293171		5.1	50	43.1	0.4	<0.001	<0.01	1.65	0.4	0.6	<0.2	368	<0.01	0.01	<0.2	<0.005
K293172		1.6	180	8.3	1.5	<0.001	0.02	0.08	0.6	0.3	<0.2	145.5	<0.01	<0.01	0.3	<0.005
K293173		3.2	220	142.5	0.7	<0.001	0.07	153.5	0.6	0.9	0.4	24.1	<0.01	<0.01	0.3	<0.005
K293174		1.8	40	2.6	1.5	<0.001	0.01	0.26	0.5	0.4	<0.2	121.0	<0.01	<0.01	0.2	<0.005
K293175		17.3	90	8.3	0.5	0.001	<0.01	1.14	0.2	1.8	<0.2	114.0	<0.01	0.01	<0.2	<0.005
K293176		17.6	430	>10000	0.2	<0.001	0.08	332	0.1	14.3	4.2	46.8	<0.01	0.11	<0.2	<0.005
K293177		24.4	330	1495	0.1	<0.001	<0.01	8.10	0.1	7.5	0.6	55.6	<0.01	0.01	<0.2	<0.005
K293178		4.3	80	8420	0.3	<0.001	0.01	12.45	0.1	0.8	0.2	152.0	<0.01	0.01	<0.2	<0.005
K293179		5.3	40	215	0.3	<0.001	0.01	1.81	0.1	0.4	<0.2	136.0	<0.01	0.01	<0.2	<0.005
K293180		8.2	100	671	0.6	<0.001	0.01	3.01	0.2	0.4	0.2	119.0	<0.01	0.01	<0.2	<0.005
K293181		3.4	120	127.5	0.9	<0.001	0.01	0.86	0.2	0.3	<0.2	109.5	<0.01	<0.01	<0.2	<0.005
K293182		18.7	140	194.0	0.7	<0.001	0.01	7.62	0.3	0.4	0.2	97.1	<0.01	0.03	<0.2	<0.005
K293183		5.6	200	214	2.0	<0.001	0.01	0.79	0.6	0.4	<0.2	113.0	<0.01	0.01	0.7	0.010
K293184		4.7	40	151.0	0.6	<0.001	0.01	0.98	0.2	0.3	<0.2	109.5	<0.01	0.01	<0.2	<0.005
K293185		7.2	60	97.4	0.5	<0.001	0.01	2.01	0.2	0.3	0.4	127.5	<0.01	0.01	<0.2	<0.005
K293186		3.9	40	33.1	0.5	<0.001	0.01	0.82	0.2	0.3	<0.2	125.5	<0.01	<0.01	<0.2	<0.005
K293187		10.3	90	52.4	0.5	<0.001	0.01	2.84	0.3	0.3	<0.2	125.0	<0.01	0.01	<0.2	<0.005
K293188		3.0	70	28.3	0.6	<0.001	0.01	0.67	0.2	0.3	<0.2	111.5	<0.01	<0.01	<0.2	<0.005
K293189		1.8	50	27.7	0.5	<0.001	0.01	0.26	0.3	0.4	<0.2	122.0	<0.01	0.01	<0.2	<0.005
K293190		14.0	350	2410	0.3	<0.001	0.11	3.32	0.7	0.4	<0.2	132.0	<0.01	0.01	<0.2	<0.005



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 Account: RANSIL

Project: Michelle

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Ag- OG46	Pb- OG46	Zn- OG46
		TI	U	V	W	Y	Zn	Zr	Ag	Pb	Zn
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.02	0.05	1	0.05	0.05	2	0.5	1	0.001	0.001
K293151		0.05	0.45	5	0.07	0.57	>10000	<0.5			3.17
K293152		0.04	0.32	4	<0.05	0.61	>10000	<0.5			8.75
K293153		0.08	8.20	5	<0.05	0.48	>10000	0.7	121	17.40	2.70
K293154		0.04	0.34	2	0.28	0.30	>10000	<0.5			4.35
K293155		0.03	0.64	1	<0.05	0.12	6340	<0.5			
K293156		0.16	2.04	808	0.93	30.1	4970	6.5			
K293157		0.02	0.55	5	<0.05	10.40	59	2.7			
K293158		0.07	0.48	4	<0.05	3.45	35	2.0			
K293159		0.05	0.41	2	<0.05	1.39	15	1.7			
K293160		0.20	0.35	2	<0.05	0.29	>10000	<0.5			1.650
K293161		0.04	0.27	4	<0.05	2.40	58	0.7			
K293162		<0.02	0.16	3	<0.05	1.35	99	1.0			
K293163		0.04	0.21	1	<0.05	0.40	>10000	<0.5			2.22
K293164		0.10	0.36	3	<0.05	0.59	>10000	<0.5			8.95
K293165		0.33	1.22	38	<0.05	12.50	507	5.1			
K293166		0.20	3.28	4	<0.05	0.32	>10000	<0.5			>30.0
K293167		0.02	0.70	9	0.05	3.87	349	3.6			
K293168		0.04	0.98	2	<0.05	0.16	>10000	<0.5			5.04
K293169		<0.02	0.22	1	<0.05	0.28	186	<0.5			
K293170		<0.02	0.29	1	<0.05	0.68	74	<0.5			
K293171		0.06	0.94	9	<0.05	5.21	147	1.2			
K293172		0.02	0.48	3	<0.05	1.03	94	1.1			
K293173		11.35	1.38	1	<0.05	4.07	121	3.3			
K293174		0.09	0.32	2	0.18	0.80	12	1.3			
K293175		0.07	1.12	9	<0.05	0.54	8380	0.7			
K293176		0.14	3.71	14	0.08	1.05	>10000	0.6	126	>20.0	8.82
K293177		0.08	0.65	14	<0.05	2.28	>10000	0.7			26.6
K293178		0.03	0.46	19	<0.05	0.96	3180	<0.5			
K293179		0.04	0.24	21	<0.05	0.60	3330	0.5			
K293180		0.04	0.32	91	<0.05	0.81	301	0.5			
K293181		0.04	0.24	22	<0.05	0.77	236	<0.5			
K293182		0.05	0.22	25	<0.05	0.88	338	0.8			
K293183		0.05	0.55	28	0.05	2.01	75	1.1			
K293184		0.04	0.16	28	<0.05	0.37	71	0.6			
K293185		0.04	0.33	18	<0.05	0.48	109	1.0			
K293186		0.03	0.23	7	<0.05	0.52	56	0.5			
K293187		0.04	0.50	14	<0.05	0.72	161	1.6			
K293188		0.03	0.51	7	<0.05	0.65	38	0.5			
K293189		0.02	0.41	6	<0.05	0.76	30	<0.5			
K293190		0.08	1.03	186	<0.05	4.19	253	2.9			



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Project: Michelle

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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	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	ME- MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
K293191		1.79	0.02	0.01	0.7	<0.02	<10	180	0.07	0.01	22.7	1.27	0.87	1.0	<1	0.07
K293192		1.19	0.02	0.01	0.1	<0.02	<10	330	0.06	0.01	22.1	1.10	0.73	0.9	<1	0.06
K293193		2.88	0.02	0.01	0.5	<0.02	<10	100	0.06	0.01	22.3	1.00	0.52	0.9	<1	0.06
K293194		1.34	0.15	0.03	3.8	<0.02	<10	540	0.15	0.01	24.2	2.15	2.69	1.2	3	0.08
K293195		2.82	0.04	0.02	0.6	<0.02	<10	430	0.07	0.01	23.3	3.02	0.86	1.1	1	0.07
K293196		2.39	0.35	0.02	1.1	<0.02	<10	60	0.05	0.01	21.5	0.93	0.69	0.9	1	<0.05
K293197		1.94	0.09	0.02	0.4	<0.02	<10	60	0.05	0.01	22.3	1.32	0.76	1.0	1	<0.05
K293198		2.54	0.14	0.02	0.8	<0.02	<10	110	<0.05	<0.01	24.9	3.50	1.91	1.1	1	<0.05
K293199		2.13	0.12	0.02	0.3	<0.02	<10	240	<0.05	<0.01	23.2	2.56	1.21	1.0	1	<0.05
K293200		3.46	0.82	0.04	24.2	<0.02	<10	2820	0.47	0.04	15.15	5.88	3.38	2.2	21	<0.05

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ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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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	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		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	0.01	0.05
K293191		3.9	0.05	0.06	<0.05	<0.02	0.07	<0.005	<0.01	0.5	0.6	10.55	258	0.21	0.02	<0.05
K293192		4.7	0.04	0.05	<0.05	<0.02	0.06	<0.005	<0.01	0.4	0.5	10.40	189	0.21	0.02	<0.05
K293193		3.1	0.03	0.05	<0.05	<0.02	0.03	<0.005	<0.01	0.3	0.5	10.70	195	0.14	0.02	<0.05
K293194		15.3	0.40	0.16	<0.05	0.05	0.06	<0.005	0.01	1.6	0.6	5.78	198	1.70	0.01	<0.05
K293195		5.0	0.07	0.08	<0.05	0.02	0.04	<0.005	0.01	0.6	0.6	9.72	158	0.54	0.01	<0.05
K293196		28.2	0.08	0.11	<0.05	<0.02	0.04	<0.005	<0.01	0.4	0.4	10.80	216	2.15	0.01	<0.05
K293197		2.9	0.06	0.10	<0.05	<0.02	0.01	<0.005	<0.01	0.5	0.5	10.90	201	0.31	0.01	<0.05
K293198		2.7	0.07	0.08	<0.05	<0.02	0.01	<0.005	<0.01	1.2	0.4	8.56	190	0.31	0.01	<0.05
K293199		3.3	0.07	0.10	<0.05	<0.02	0.02	<0.005	<0.01	0.8	0.5	10.40	265	0.26	0.01	<0.05
K293200		49.8	1.70	1.01	<0.05	0.13	0.19	0.123	<0.01	2.4	0.3	0.49	411	6.74	<0.01	<0.05

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ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: SILVER RANGE RESOURCES LTD.
 C/ O ARCHER, CATHRO & ASSOCIATES (1981)
 LIMITED
 1016- 510 W HASTINGS ST
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Project: Michelle

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Sample Description	Method Analyte Units LOR	ME- MS41 Ni ppm	ME- MS41 P ppm	ME- MS41 Pb ppm	ME- MS41 Rb ppm	ME- MS41 Re ppm	ME- MS41 S %	ME- MS41 Sb ppm	ME- MS41 Sc ppm	ME- MS41 Se ppm	ME- MS41 Sn ppm	ME- MS41 Sr ppm	ME- MS41 Ta ppm	ME- MS41 Te ppm	ME- MS41 Th ppm	ME- MS41 Ti %
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
K293191		4.7	40	11.1	0.2	<0.001	<0.01	0.69	0.3	0.3	<0.2	134.5	<0.01	<0.01	<0.2	<0.005
K293192		3.8	40	43.9	0.2	<0.001	0.01	0.54	0.3	0.2	<0.2	126.5	<0.01	<0.01	<0.2	<0.005
K293193		3.1	30	3.2	0.2	<0.001	<0.01	0.37	0.2	0.2	<0.2	145.5	<0.01	0.01	<0.2	<0.005
K293194		28.8	150	31.5	0.5	<0.001	0.01	5.66	0.6	0.4	<0.2	111.5	<0.01	0.01	<0.2	<0.005
K293195		7.9	120	10.7	0.3	<0.001	0.01	0.78	0.4	0.3	<0.2	121.5	<0.01	0.01	<0.2	<0.005
K293196		3.5	80	233	0.2	<0.001	0.01	1.23	0.2	0.4	<0.2	105.0	<0.01	0.01	<0.2	<0.005
K293197		2.7	60	25.6	0.2	<0.001	<0.01	0.85	0.3	0.2	<0.2	115.5	<0.01	<0.01	<0.2	<0.005
K293198		2.9	90	12.4	0.3	<0.001	<0.01	0.61	0.3	0.4	<0.2	142.0	<0.01	<0.01	<0.2	<0.005
K293199		2.7	70	26.8	0.2	<0.001	0.01	0.72	0.3	0.4	<0.2	120.0	<0.01	<0.01	<0.2	<0.005
K293200		114.0	520	293	0.2	0.001	0.06	41.9	1.9	0.8	0.2	186.0	<0.01	0.04	<0.2	<0.005

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ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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To: SILVER RANGE RESOURCES LTD.
 C/ O ARCHER, CATHRO & ASSOCIATES (1981)
 LIMITED
 1016- 510 W HASTINGS ST
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Project: Michelle

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Sample Description	Method Analyte Units LOR	ME- MS41 Tl ppm 0.02	ME- MS41 U ppm 0.05	ME- MS41 V ppm 1	ME- MS41 W ppm 0.05	ME- MS41 Y ppm 0.05	ME- MS41 Zn ppm 2	ME- MS41 Zr ppm 0.5	Ag- OG46 Ag ppm 1	Pb- OG46 Pb % 0.001	Zn- OG46 Zn % 0.001
K293191		0.03	0.83	3	<0.05	1.04	31	0.7			
K293192		0.02	0.63	6	<0.05	1.07	24	0.7			
K293193		0.02	0.92	2	<0.05	0.60	25	0.5			
K293194		0.05	0.51	21	<0.05	3.18	187	3.8			
K293195		0.06	0.84	6	<0.05	1.76	71	1.2			
K293196		<0.02	0.50	6	<0.05	0.58	67	0.5			
K293197		<0.02	0.42	5	<0.05	0.57	33	<0.5			
K293198		<0.02	0.58	4	<0.05	1.26	35	0.6			
K293199		<0.02	0.41	6	<0.05	0.94	31	0.5			
K293200		0.04	1.27	126	0.17	9.15	785	9.6			



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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	CERTIFICATE COMMENTS								
Applies to Method:	<p style="text-align: center;">ANALYTICAL COMMENTS</p> <p>Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g). ME- MS41</p>								
Applies to Method:	<p style="text-align: center;">LABORATORY ADDRESSES</p> <p>Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU- 31</td> <td style="width: 33%;">CRU- QC</td> <td style="width: 33%;">LOG- 21</td> <td style="width: 33%;">PUL- 31</td> </tr> <tr> <td>PUL- QC</td> <td>SPL- 21</td> <td>WEI- 21</td> <td></td> </tr> </table>	CRU- 31	CRU- QC	LOG- 21	PUL- 31	PUL- QC	SPL- 21	WEI- 21	
CRU- 31	CRU- QC	LOG- 21	PUL- 31						
PUL- QC	SPL- 21	WEI- 21							
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Ag- OG46</td> <td style="width: 33%;">ME- MS41</td> <td style="width: 33%;">ME- OG46</td> <td style="width: 33%;">Pb- OG46</td> </tr> <tr> <td>Zn- OG46</td> <td></td> <td></td> <td></td> </tr> </table>	Ag- OG46	ME- MS41	ME- OG46	Pb- OG46	Zn- OG46			
Ag- OG46	ME- MS41	ME- OG46	Pb- OG46						
Zn- OG46									



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Project: Michelle

This report is for 8 Soil samples submitted to our lab in Whitehorse, YT, Canada on 19- JUN- 2017.

The following have access to data associated with this certificate:

JOAN MARIACHER		
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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
ME- MS41	Ultra Trace Aqua Regia ICP- MS

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
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***** See Appendix Page for comments regarding this certificate *****

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 10- JUL- 2017
 Account: RANSIL

Project: Michelle

CERTIFICATE OF ANALYSIS WH17123206

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	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	ME- MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
ZZ91401		0.36	0.20	0.25	4.7	<0.02	<10	2650	0.46	0.08	20.6	7.07	16.35	1.4	12	0.53
ZZ91402		0.35	0.05	0.11	1.2	<0.02	<10	520	0.16	0.02	22.1	2.40	4.06	0.7	4	0.27
ZZ91403		0.59	0.04	0.07	1.1	<0.02	<10	570	0.10	0.01	23.1	1.56	1.81	0.5	3	0.17
ZZ91404		0.59	0.04	0.09	1.6	<0.02	<10	1040	0.15	0.01	23.1	2.10	3.03	0.7	3	0.19
ZZ91405		0.47	0.26	0.01	0.5	<0.02	<10	260	<0.05	<0.01	21.9	1.83	0.89	0.2	1	<0.05
ZZ91406		0.39	0.59	0.28	33.8	<0.02	<10	3900	0.88	0.11	15.20	7.39	12.30	4.2	66	0.30
ZZ91407		0.47	0.18	0.01	0.7	<0.02	<10	400	0.05	<0.01	23.8	3.31	2.27	0.3	1	0.05
ZZ91408		0.59	0.18	0.03	1.1	<0.02	<10	120	0.08	0.01	23.8	4.14	1.75	0.4	1	0.11

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 Account: RANSIL

Project: Michelle

CERTIFICATE OF ANALYSIS WH17123206

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	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		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	0.01	0.05
ZZ91401		183.0	0.37	0.62	0.07	0.15	0.43	0.518	0.03	13.0	1.8	11.35	1460	2.22	0.01	0.07
ZZ91402		15.1	0.16	0.26	0.06	0.05	0.15	0.011	0.01	3.1	1.0	12.25	421	0.76	0.03	<0.05
ZZ91403		10.0	0.15	0.16	0.06	0.07	0.08	<0.005	0.01	1.5	0.6	11.45	264	0.53	0.02	<0.05
ZZ91404		13.8	0.20	0.24	0.07	0.05	0.10	0.005	0.01	2.2	0.8	11.75	298	1.15	0.02	<0.05
ZZ91405		2.2	0.09	0.08	0.06	<0.02	0.06	<0.005	<0.01	0.6	0.3	11.85	284	0.34	0.02	<0.05
ZZ91406		75.3	3.82	2.77	<0.05	0.13	0.22	0.205	0.02	8.5	1.1	8.10	413	14.25	<0.01	0.21
ZZ91407		3.4	0.08	0.10	0.05	<0.02	0.05	0.012	<0.01	1.6	0.3	12.20	396	0.35	0.02	<0.05
ZZ91408		4.1	0.12	0.11	0.07	0.03	0.03	<0.005	0.01	0.9	0.3	11.50	240	0.68	0.02	<0.05



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 Plus Appendix Pages
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Project: Michelle

CERTIFICATE OF ANALYSIS WH17123206

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	
		Ni	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	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
ZZ91401		142.0	1780	3310	2.0	<0.001	0.06	8.31	2.4	1.0	0.9	124.0	<0.01	0.08	1.2	<0.005
ZZ91402		36.6	340	76.4	1.1	<0.001	0.02	1.79	0.9	0.5	<0.2	102.5	<0.01	0.01	0.3	<0.005
ZZ91403		23.2	250	28.5	0.7	<0.001	0.02	2.43	0.6	0.3	<0.2	129.0	<0.01	0.01	0.2	<0.005
ZZ91404		34.7	580	36.9	1.0	<0.001	0.03	2.46	0.7	0.4	<0.2	129.0	<0.01	0.01	0.3	<0.005
ZZ91405		2.7	80	21.8	0.1	<0.001	0.02	0.59	0.2	0.2	<0.2	79.4	<0.01	<0.01	<0.2	<0.005
ZZ91406		313	2160	406	1.1	0.001	0.08	69.5	5.4	1.5	0.7	99.1	<0.01	0.10	1.0	<0.005
ZZ91407		6.2	100	49.7	0.1	<0.001	0.02	1.43	0.3	0.3	<0.2	112.0	<0.01	<0.01	<0.2	<0.005
ZZ91408		15.6	400	23.3	0.6	<0.001	0.01	1.57	0.3	0.6	<0.2	98.4	<0.01	<0.01	0.3	<0.005

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



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 North Vancouver BC V7H 0A7
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 Plus Appendix Pages
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 Account: RANSIL

Project: Michelle

CERTIFICATE OF ANALYSIS WH17123206

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.02	0.05	1	0.05	0.05	2	0.5
ZZ91401		0.71	2.50	574	0.07	37.2	909	12.6
ZZ91402		0.18	0.68	22	<0.05	10.95	140	3.3
ZZ91403		0.10	0.84	18	<0.05	5.97	109	3.5
ZZ91404		0.15	1.00	22	<0.05	6.43	159	3.3
ZZ91405		<0.02	0.24	4	<0.05	0.94	34	<0.5
ZZ91406		0.14	2.21	222	0.41	23.2	1860	13.2
ZZ91407		0.02	0.26	6	<0.05	2.84	46	0.7
ZZ91408		0.07	1.36	7	<0.05	1.03	105	1.5



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Total # Appendix Pages: 1
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CERTIFICATE OF ANALYSIS WH17123206

CERTIFICATE COMMENTS	
Applies to Method:	<p align="center">ANALYTICAL COMMENTS</p> <p>Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g). ME- MS41</p> <p align="center">LABORATORY ADDRESSES</p> <p>Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada. Applies to Method: LOG- 22 SCR- 41 WEI- 21</p> <p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. Applies to Method: ME- MS41</p>



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Account: RANSIL

CERTIFICATE WH17133808

Project: Michelle

This report is for 3 Soil samples submitted to our lab in Whitehorse, YT, Canada on 1- JUL- 2017.

The following have access to data associated with this certificate:

JOAN MARIACHER		
----------------	--	--

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
ME- MS41	Ultra Trace Aqua Regia ICP- MS

To: **SILVER RANGE RESOURCES LTD.**
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Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Michelle

CERTIFICATE OF ANALYSIS WH17133808

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	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	ME- MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
ZZ91409		0.29	0.56	0.07	9.7	<0.02	<10	120	0.21	0.21	17.45	2.58	4.07	1.2	4	0.20
ZZ91410		0.43	0.97	0.04	19.2	<0.02	<10	160	0.39	0.37	14.80	5.53	5.77	1.2	6	0.13
ZZ91411		0.41	0.19	0.33	13.3	<0.02	10	140	0.08	0.18	0.02	0.02	13.65	1.5	26	3.32



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CERTIFICATE OF ANALYSIS WH17133808

Sample Description	Method Analyte Units LOR	ME- MS41 Cu ppm	ME- MS41 Fe %	ME- MS41 Ga ppm	ME- MS41 Ge ppm	ME- MS41 Hf ppm	ME- MS41 Hg ppm	ME- MS41 In ppm	ME- MS41 K %	ME- MS41 La ppm	ME- MS41 Li ppm	ME- MS41 Mg %	ME- MS41 Mn ppm	ME- MS41 Mo ppm	ME- MS41 Na %	ME- MS41 Nb ppm
		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	0.01	0.05
ZZ91409		22.8	3.14	0.33	0.09	0.02	0.07	0.019	0.01	2.3	0.9	10.10	1000	4.61	0.02	0.07
ZZ91410		65.7	8.62	0.40	0.11	0.07	0.19	0.037	0.01	3.6	0.6	8.68	1430	8.65	0.02	<0.05
ZZ91411		18.9	9.73	5.43	0.12	0.02	0.03	0.035	0.54	5.9	0.9	0.03	43	0.40	0.01	0.19



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CERTIFICATE OF ANALYSIS WH17133808

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	
		Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
ZZ91409		12.5	320	389	0.7	<0.001	0.01	3.35	0.6	0.8	<0.2	108.5	<0.01	0.02	0.3	<0.005
ZZ91410		23.3	690	841	0.5	<0.001	<0.01	6.92	0.8	2.1	<0.2	84.3	<0.01	0.03	0.2	<0.005
ZZ91411		2.6	690	48.7	20.1	<0.001	0.91	1.21	3.9	0.4	0.4	6.1	<0.01	0.02	2.4	0.008

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Project: Michelle

CERTIFICATE OF ANALYSIS WH17133808

Sample Description	Method Analyte Units LOR	ME- MS41 Tl ppm 0.02	ME- MS41 U ppm 0.05	ME- MS41 V ppm 1	ME- MS41 W ppm 0.05	ME- MS41 Y ppm 0.05	ME- MS41 Zn ppm 2	ME- MS41 Zr ppm 0.5
ZZ91409		0.18	0.80	24	<0.05	3.42	1900	2.1
ZZ91410		0.20	1.62	49	0.05	6.96	4940	7.2
ZZ91411		0.19	0.19	31	0.05	1.24	24	1.6



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CERTIFICATE OF ANALYSIS WH17133808

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

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

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG- 22 SCR- 41 WEI- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
ME- MS41



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CERTIFICATE WH17133879

Project: Michelle

This report is for 31 Rock samples submitted to our lab in Whitehorse, YT, Canada on 1-JUL- 2017.

The following have access to data associated with this certificate:

JOAN MARIACHER		
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
CRU- QC	Crushing QC Test
LOG- 21	Sample logging - ClientBarCode
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Ag- OG46	Ore Grade Ag - Aqua Regia	ICP- AES
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Pb- OG46	Ore Grade Pb - Aqua Regia	ICP- AES
Zn- OG46	Ore Grade Zn - Aqua Regia	ICP- AES
ME- MS41	Ultra Trace Aqua Regia ICP- MS	

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 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Michelle

CERTIFICATE OF ANALYSIS WH17133879

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	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	ME- MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
K293239		0.97	0.58	0.14	9.5	<0.02	<10	220	0.15	0.44	18.30	11.95	5.79	3.1	4	0.28
K293240		0.72	1.06	0.04	27.9	<0.02	<10	2400	0.26	4.51	8.70	72.8	11.60	5.1	5	0.15
K293241		0.97	0.43	0.07	3.5	<0.02	<10	80	0.20	0.02	17.90	20.3	6.43	1.2	4	0.06
K293242		0.72	0.06	0.01	2.9	<0.02	<10	50	<0.05	0.01	17.40	40.4	0.79	0.4	<1	<0.05
K293243		0.55	>100	0.05	71.7	<0.02	<10	30	0.10	203	0.12	6.07	2.13	0.3	2	0.05
K293244		1.23	0.38	0.02	2.3	<0.02	<10	50	0.05	0.29	14.25	5.55	1.58	0.5	2	0.05
K293245		2.64	5.63	0.04	7.5	<0.02	<10	190	0.09	5.86	16.35	2.95	1.93	0.8	2	0.08
K293246		2.43	2.33	0.05	4.5	<0.02	<10	80	0.10	0.03	19.50	4.74	3.09	0.9	3	0.11
K293247		2.77	1.18	0.02	2.4	<0.02	<10	40	0.07	0.37	15.60	0.91	0.96	0.5	5	<0.05
K293248		3.16	1.16	0.02	1.8	<0.02	<10	60	0.09	0.01	18.35	1.33	1.43	0.5	2	0.07
K293249		3.18	0.85	0.04	5.1	<0.02	<10	90	0.12	0.06	19.50	2.52	2.54	0.8	2	0.10
K293250		3.12	0.60	0.04	3.2	<0.02	<10	110	0.10	0.01	20.3	1.29	3.06	0.7	4	0.13
K293251		0.94	0.58	0.11	4.5	<0.02	<10	90	0.21	0.03	16.75	27.6	5.94	1.3	5	0.12
K293252		0.88	0.18	0.03	8.2	<0.02	<10	50	0.06	0.87	19.75	0.16	2.04	1.1	2	0.13
K293253		0.76	0.41	0.04	7.8	<0.02	<10	70	0.14	0.03	14.45	87.1	3.16	0.8	2	0.05
K293254		1.01	1.55	0.03	22.0	<0.02	<10	50	0.20	0.05	1.14	567	16.55	5.1	<1	<0.05
K293255		0.80	0.36	0.02	7.1	<0.02	<10	70	0.09	0.09	17.85	29.5	0.79	0.5	1	0.05
K293256		1.84	0.11	0.01	3.0	<0.02	<10	60	0.09	0.04	20.1	17.50	2.67	0.7	<1	0.14
K293257		1.73	0.07	0.01	2.4	<0.02	<10	60	0.08	0.07	19.95	0.51	1.11	0.6	<1	0.15
K293258		1.55	0.07	0.02	2.8	<0.02	<10	40	0.08	0.07	20.9	1.47	0.90	0.7	1	0.15
K293259		0.92	>100	0.05	215	<0.02	<10	20	<0.05	251	0.41	4.12	1.78	0.2	<1	0.09
K293260		0.71	10.75	0.04	282	0.02	<10	20	0.12	4.94	0.46	8.40	1.90	1.5	1	<0.05
K293261		2.29	5.53	0.01	8.1	<0.02	<10	100	0.08	7.04	17.90	0.48	1.30	0.5	3	0.09
K293262		2.08	1.91	0.02	14.6	<0.02	<10	260	0.15	0.59	19.30	2.89	2.15	0.9	2	0.08
K293263		2.61	1.10	0.01	3.0	<0.02	<10	160	0.09	0.64	21.9	1.21	1.17	0.7	1	0.09
K293264		2.49	0.42	0.01	5.3	<0.02	<10	160	0.10	0.34	20.7	0.59	1.53	0.7	1	0.10
K293265		2.44	1.24	0.02	6.8	<0.02	<10	330	0.12	0.79	19.90	1.61	2.95	0.9	1	0.07
K293266		2.31	0.15	0.01	1.6	<0.02	<10	70	0.05	0.09	14.20	0.24	0.82	0.4	3	0.05
K293267		2.45	0.42	0.01	1.9	<0.02	<10	80	0.06	0.19	16.00	0.40	0.84	0.5	1	0.05
K293268		2.58	0.25	0.01	2.8	<0.02	<10	80	0.07	0.08	16.05	0.67	0.67	0.6	1	0.06
K293269		3.13	0.27	0.01	1.6	<0.02	10	50	0.05	0.12	11.10	0.10	0.75	0.2	3	0.11



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 C/ O ARCHER, CATHRO & ASSOCIATES (1981)
 LIMITED
 1016- 510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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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	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		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	0.01	0.05
K293239		5.0	3.94	0.39	0.05	0.06	0.04	0.041	0.10	3.3	1.7	10.25	2330	1.60	0.03	<0.05
K293240		18.6	25.2	0.42	0.14	0.08	0.27	0.029	0.01	8.4	0.4	4.59	5490	9.34	<0.01	<0.05
K293241		54.4	5.78	0.52	0.06	0.05	0.08	0.007	0.02	4.0	1.0	10.40	1080	0.85	0.01	<0.05
K293242		3.6	4.59	0.08	0.05	<0.02	0.02	<0.005	<0.01	0.7	0.6	10.50	644	0.46	0.01	<0.05
K293243		415	49.5	86.0	0.61	0.04	4.45	4.07	0.01	2.1	0.4	0.08	307	15.25	0.01	<0.05
K293244		3.4	3.55	0.35	0.05	<0.02	0.03	0.013	0.01	1.1	0.6	8.17	549	1.26	0.01	<0.05
K293245		17.2	2.07	2.73	<0.05	0.02	0.26	0.128	0.01	1.3	0.8	6.28	510	1.19	0.01	<0.05
K293246		5.4	0.69	0.22	0.07	0.05	0.09	<0.005	0.02	2.0	0.9	6.49	522	0.66	0.01	<0.05
K293247		3.0	0.26	0.29	0.12	<0.02	0.04	0.009	<0.01	0.6	0.6	7.68	194	0.40	0.02	<0.05
K293248		2.4	0.17	0.12	0.13	<0.02	0.04	<0.005	0.01	0.8	0.7	9.46	232	0.43	0.02	<0.05
K293249		4.5	0.57	0.24	0.10	0.03	0.07	<0.005	0.02	1.4	1.0	10.15	313	0.84	0.02	<0.05
K293250		3.5	0.29	0.23	0.12	0.03	0.06	<0.005	0.02	1.6	1.3	10.65	305	0.89	0.03	<0.05
K293251		65.0	6.83	2.30	0.06	0.07	0.08	0.106	0.04	3.8	1.4	9.62	1040	1.11	0.01	<0.05
K293252		2.2	0.90	0.15	0.07	0.03	0.01	0.023	0.02	1.3	1.1	9.91	2130	1.74	0.03	<0.05
K293253		55.5	3.24	0.43	0.05	0.02	0.44	0.009	0.01	1.9	0.8	8.58	1200	3.57	0.01	<0.05
K293254		74.5	15.00	0.39	0.24	0.02	1.38	0.019	0.01	11.1	0.6	0.55	3750	14.90	<0.01	<0.05
K293255		4.9	3.37	0.12	0.05	<0.02	0.25	<0.005	<0.01	0.7	0.9	10.65	892	0.97	0.02	<0.05
K293256		4.0	1.21	0.09	0.05	<0.02	0.05	0.070	0.01	2.0	0.9	10.35	3320	1.06	0.03	<0.05
K293257		2.0	0.77	0.10	0.08	<0.02	0.01	0.037	0.01	0.9	0.9	11.15	2880	1.18	0.03	<0.05
K293258		2.1	0.22	0.13	0.13	<0.02	0.01	0.007	0.01	0.6	1.0	10.80	614	0.90	0.03	<0.05
K293259		221	47.2	50.4	0.62	0.04	5.59	2.93	0.02	2.0	0.4	0.22	304	9.83	0.01	<0.05
K293260		91.9	48.0	5.82	0.35	0.02	0.53	0.331	<0.01	2.0	0.3	0.22	1370	7.00	0.01	<0.05
K293261		8.7	1.82	1.04	0.05	<0.02	0.25	0.079	0.01	0.9	0.8	9.56	2260	0.87	0.02	<0.05
K293262		7.5	2.07	0.29	0.05	<0.02	0.13	0.028	0.01	1.6	1.0	10.10	2530	1.44	0.02	<0.05
K293263		3.8	0.55	0.17	0.11	<0.02	0.08	0.011	<0.01	0.8	0.8	11.30	1260	0.68	0.02	<0.05
K293264		3.5	0.77	0.13	0.09	<0.02	0.03	0.012	0.01	1.0	0.9	10.30	1560	0.83	0.02	<0.05
K293265		6.2	1.18	0.19	0.06	<0.02	0.12	0.020	<0.01	2.1	0.9	10.40	2930	1.20	0.02	<0.05
K293266		1.7	0.25	0.11	0.12	<0.02	0.02	<0.005	<0.01	0.6	0.6	7.33	782	0.31	0.02	<0.05
K293267		3.3	0.28	0.14	0.13	<0.02	0.03	0.005	<0.01	0.6	0.6	9.37	704	0.44	0.02	<0.05
K293268		2.9	0.35	0.14	0.10	<0.02	0.02	0.005	<0.01	0.4	0.7	8.38	862	0.51	0.02	<0.05
K293269		1.1	0.30	0.07	<0.05	<0.02	0.01	0.006	<0.01	0.5	1.0	6.06	947	0.34	0.01	<0.05



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 LIMITED
 1016- 510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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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	
		Ni	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	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
K293239		9.4	90	26.6	3.7	<0.001	0.02	0.88	2.6	1.1	<0.2	112.0	<0.01	<0.01	0.6	<0.005
K293240		30.8	170	906	0.8	0.001	0.04	6.11	1.3	3.6	<0.2	63.4	<0.01	0.04	0.3	<0.005
K293241		6.4	80	18.4	1.0	0.001	<0.01	1.85	1.3	0.9	<0.2	114.0	<0.01	<0.01	0.2	<0.005
K293242		0.4	60	73.8	0.1	<0.001	<0.01	0.28	0.1	0.7	<0.2	81.9	<0.01	<0.01	<0.2	<0.005
K293243		3.2	50	>10000	0.6	0.001	0.22	12.30	0.9	18.6	5.2	8.7	<0.01	0.13	0.2	<0.005
K293244		2.3	20	101.5	0.3	<0.001	<0.01	0.39	0.3	0.5	<0.2	80.3	<0.01	<0.01	<0.2	<0.005
K293245		5.1	80	1515	0.7	<0.001	0.01	1.99	0.5	1.0	0.2	140.0	<0.01	0.01	<0.2	<0.005
K293246		5.6	100	92.1	1.1	<0.001	<0.01	1.67	0.7	0.6	<0.2	174.5	<0.01	<0.01	0.2	<0.005
K293247		1.4	30	122.5	0.3	0.001	<0.01	0.41	0.2	0.5	<0.2	112.5	<0.01	<0.01	<0.2	<0.005
K293248		1.2	30	48.5	0.4	<0.001	<0.01	0.47	0.3	0.6	<0.2	139.0	<0.01	0.01	<0.2	<0.005
K293249		2.5	50	124.0	0.9	<0.001	<0.01	1.19	0.7	0.7	<0.2	166.0	<0.01	<0.01	0.2	<0.005
K293250		2.2	40	71.5	1.0	<0.001	0.01	0.78	0.9	0.7	<0.2	182.0	<0.01	<0.01	0.2	<0.005
K293251		6.8	80	34.3	1.8	0.001	<0.01	2.46	1.6	1.6	<0.2	110.5	<0.01	<0.01	0.3	<0.005
K293252		3.3	20	21.2	1.1	<0.001	0.01	0.62	0.5	0.5	<0.2	168.5	<0.01	<0.01	<0.2	<0.005
K293253		3.3	70	447	0.5	<0.001	<0.01	4.74	0.8	1.5	<0.2	80.3	<0.01	0.01	<0.2	<0.005
K293254		56.0	460	2270	0.3	<0.001	<0.01	1.93	0.6	8.7	<0.2	8.8	<0.01	0.01	<0.2	<0.005
K293255		1.1	110	120.5	0.2	<0.001	<0.01	1.15	0.1	2.4	<0.2	92.6	<0.01	0.01	<0.2	<0.005
K293256		2.2	30	85.1	0.4	<0.001	<0.01	0.22	0.1	0.8	<0.2	148.0	<0.01	<0.01	<0.2	<0.005
K293257		0.5	10	10.0	0.5	<0.001	<0.01	0.23	0.1	0.7	<0.2	135.5	<0.01	<0.01	<0.2	<0.005
K293258		1.7	10	13.4	0.6	<0.001	<0.01	0.28	0.2	0.6	<0.2	165.0	<0.01	<0.01	<0.2	<0.005
K293259		1.5	60	>10000	0.8	<0.001	1.19	243	0.5	7.1	3.5	25.7	<0.01	0.09	<0.2	<0.005
K293260		4.1	320	2730	0.2	0.001	0.08	7.88	0.7	0.8	<0.2	4.3	<0.01	0.01	<0.2	<0.005
K293261		1.1	30	3570	0.4	<0.001	0.04	8.47	0.2	0.8	<0.2	103.5	<0.01	<0.01	<0.2	<0.005
K293262		3.6	60	145.0	0.4	<0.001	<0.01	0.96	0.3	0.8	<0.2	123.0	<0.01	0.01	<0.2	<0.005
K293263		2.1	40	300	0.3	<0.001	0.01	0.95	0.1	0.7	<0.2	144.0	<0.01	<0.01	<0.2	<0.005
K293264		2.4	30	23.7	0.3	<0.001	<0.01	0.61	0.1	0.8	<0.2	146.0	<0.01	0.01	<0.2	<0.005
K293265		4.9	70	154.5	0.3	<0.001	0.01	1.38	0.2	0.7	<0.2	131.5	<0.01	0.01	<0.2	<0.005
K293266		0.9	20	8.5	0.2	<0.001	<0.01	0.20	0.1	0.4	<0.2	81.8	<0.01	<0.01	<0.2	<0.005
K293267		1.6	30	57.2	0.2	<0.001	<0.01	0.40	0.1	0.5	<0.2	63.5	<0.01	<0.01	<0.2	<0.005
K293268		2.4	40	13.8	0.2	<0.001	<0.01	0.55	0.1	0.5	<0.2	59.7	<0.01	<0.01	<0.2	<0.005
K293269		0.7	10	26.8	0.7	<0.001	<0.01	0.25	0.1	<0.2	<0.2	54.7	<0.01	<0.01	<0.2	<0.005



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Ag- OG46	Pb- OG46	Zn- OG46	
		Tl	U	V	W	Y	Zn	Zr	Ag	Pb	Zn
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.02	0.05	1	0.05	0.05	2	0.5	1	0.001	0.001
K293239		0.23	0.99	3	<0.05	1.76	6680	2.8			
K293240		1.13	7.25	13	0.20	4.43	>10000	5.3			4.93
K293241		0.13	1.32	3	<0.05	2.08	9340	2.9			
K293242		0.03	1.59	1	<0.05	0.38	>10000	<0.5			1.280
K293243		0.05	8.72	9	0.21	0.39	>10000	1.8	112	4.14	2.29
K293244		0.05	0.57	1	<0.05	0.62	6590	0.6			
K293245		0.10	1.12	7	<0.05	0.73	1180	1.1			
K293246		0.08	1.02	8	<0.05	1.14	639	1.9			
K293247		0.02	0.79	4	<0.05	0.70	186	<0.5			
K293248		0.02	0.64	5	<0.05	0.79	153	0.5			
K293249		0.05	0.75	5	<0.05	1.16	417	1.2			
K293250		0.04	0.66	5	<0.05	1.29	269	1.2			
K293251		0.18	1.72	4	<0.05	1.97	10000	3.0			1.030
K293252		0.03	0.54	3	<0.05	0.49	53	1.0			
K293253		0.09	0.67	9	<0.05	1.40	>10000	1.5			5.96
K293254		1.05	4.63	8	0.06	5.61	>10000	1.2			>30.0
K293255		0.03	4.82	2	0.05	0.25	6030	0.6			
K293256		0.06	0.72	2	<0.05	0.49	8930	<0.5			
K293257		0.03	0.46	1	<0.05	0.13	194	<0.5			
K293258		0.06	1.05	3	<0.05	0.35	786	0.5			
K293259		1.26	8.02	8	0.06	0.23	>10000	1.5	172	10.60	1.105
K293260		0.06	25.4	21	0.07	0.77	>10000	1.1			1.940
K293261		0.10	0.55	2	<0.05	0.47	424	<0.5			
K293262		0.31	1.08	3	<0.05	1.21	1140	0.6			
K293263		0.13	0.43	2	<0.05	0.64	361	<0.5			
K293264		0.11	0.61	2	<0.05	0.70	444	<0.5			
K293265		0.35	0.44	3	<0.05	1.07	741	0.5			
K293266		0.05	0.54	2	<0.05	0.37	178	<0.5			
K293267		0.09	0.57	2	<0.05	0.43	168	<0.5			
K293268		0.13	0.57	3	<0.05	0.39	216	<0.5			
K293269		0.04	0.28	2	<0.05	0.29	83	<0.5			



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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	CERTIFICATE COMMENTS								
Applies to Method:	<p style="text-align: center;">ANALYTICAL COMMENTS</p> <p>Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g). ME- MS41</p>								
Applies to Method:	<p style="text-align: center;">LABORATORY ADDRESSES</p> <p>Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU- 31</td> <td style="width: 33%;">CRU- QC</td> <td style="width: 33%;">LOG- 21</td> <td style="width: 33%;">PUL- 31</td> </tr> <tr> <td>PUL- QC</td> <td>SPL- 21</td> <td>WEI- 21</td> <td></td> </tr> </table>	CRU- 31	CRU- QC	LOG- 21	PUL- 31	PUL- QC	SPL- 21	WEI- 21	
CRU- 31	CRU- QC	LOG- 21	PUL- 31						
PUL- QC	SPL- 21	WEI- 21							
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Ag- OG46</td> <td style="width: 33%;">ME- MS41</td> <td style="width: 33%;">ME- OG46</td> <td style="width: 33%;">Pb- OG46</td> </tr> <tr> <td>Zn- OG46</td> <td></td> <td></td> <td></td> </tr> </table>	Ag- OG46	ME- MS41	ME- OG46	Pb- OG46	Zn- OG46			
Ag- OG46	ME- MS41	ME- OG46	Pb- OG46						
Zn- OG46									



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Page: 1
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 Plus Appendix Pages
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 Account : RANSIL

CERTIFICATE WH17133881

Project: Michelle

This report is for 7 Rock samples submitted to our lab in Whitehorse, YT, Canada on 1- JUL- 2017.

The following have access to data associated with this certificate:

JOAN MARIACHER	JACK MORTON
----------------	-------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
CRU- QC	Crushing QC Test
LOG- 21	Sample logging - ClientBarCode
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES	
ALS CODE	DESCRIPTION
ME- MS41	Ultra Trace Aqua Regia ICP- MS

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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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Project: Michelle

CERTIFICATE OF ANALYSIS WH17133881

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	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	ME- MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
K293201		2.55	0.09	0.04	1.9	<0.02	<10	100	<0.05	0.02	22.8	0.49	1.59	0.6	2	0.08
K293202		2.65	0.07	0.03	1.3	<0.02	<10	60	0.06	0.01	21.1	0.75	1.17	0.5	1	<0.05
K293203		2.81	0.07	0.03	1.0	<0.02	<10	70	<0.05	0.01	23.5	1.11	1.70	0.5	1	0.05
K293204		2.34	0.07	0.03	0.6	<0.02	<10	70	0.05	<0.01	22.6	1.93	0.93	0.5	1	<0.05
K293205		2.46	0.17	0.04	0.5	<0.02	<10	160	0.06	0.01	>25.0	6.80	1.57	0.5	1	0.08
K293206		2.05	0.08	0.02	0.4	<0.02	<10	70	<0.05	<0.01	22.6	2.03	1.08	0.4	1	<0.05
K293207		2.24	0.07	0.01	0.3	<0.02	<10	70	<0.05	<0.01	23.7	1.47	1.36	0.4	<1	<0.05

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Project: Michelle

CERTIFICATE OF ANALYSIS WH17133881

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	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		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	0.01	0.05
K293201		2.5	0.08	0.15	0.12	0.02	0.01	<0.005	0.01	1.0	0.7	9.40	191	0.45	0.02	0.06
K293202		2.7	0.07	0.12	0.10	<0.02	0.02	<0.005	0.01	0.7	0.5	10.40	193	0.45	0.01	<0.05
K293203		2.2	0.09	0.15	0.08	<0.02	0.01	<0.005	0.01	1.1	0.3	8.74	218	0.33	0.02	0.06
K293204		2.8	0.08	0.10	0.12	<0.02	0.01	<0.005	<0.01	0.6	0.4	10.10	239	0.36	0.01	<0.05
K293205		3.9	0.04	0.11	0.12	0.03	0.02	<0.005	0.01	1.2	0.4	7.76	206	0.31	0.01	<0.05
K293206		3.0	0.06	0.09	0.12	<0.02	0.01	<0.005	0.01	0.7	0.4	10.00	247	0.24	0.01	<0.05
K293207		3.0	0.05	0.06	0.12	<0.02	0.01	<0.005	<0.01	0.9	0.3	9.28	200	0.25	0.01	<0.05

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 Account: RANSIL

Project: Michelle

CERTIFICATE OF ANALYSIS WH17133881

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	ME- MS41
		Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
K293201		2.0	150	25.9	0.6	<0.001	0.02	0.79	0.3	1.1	0.5	153.0	<0.01	0.02	0.2	<0.005
K293202		1.4	120	27.5	0.4	<0.001	0.01	0.47	0.2	0.9	0.2	108.0	<0.01	0.02	<0.2	<0.005
K293203		2.6	60	10.9	0.4	<0.001	0.01	0.61	0.2	0.3	0.2	167.5	<0.01	<0.01	<0.2	<0.005
K293204		4.2	80	11.0	0.3	<0.001	0.01	0.69	0.2	1.1	<0.2	114.0	<0.01	0.02	<0.2	<0.005
K293205		9.5	390	24.3	0.6	<0.001	0.01	0.53	0.4	1.2	<0.2	138.5	<0.01	0.02	0.3	<0.005
K293206		5.7	130	12.1	0.3	<0.001	0.01	0.46	0.2	1.0	<0.2	143.0	<0.01	0.02	<0.2	<0.005
K293207		4.0	50	8.8	0.1	<0.001	0.01	0.70	0.1	1.0	<0.2	123.5	<0.01	0.02	<0.2	<0.005

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Project: Michelle

CERTIFICATE OF ANALYSIS WH17133881

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Tl	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5
K293201		<0.02	0.93	8	<0.05	0.91	67	0.7
K293202		<0.02	0.81	5	<0.05	0.68	44	0.6
K293203		<0.02	0.37	4	<0.05	0.90	42	0.5
K293204		0.02	0.49	4	<0.05	0.65	55	0.6
K293205		0.07	1.28	3	<0.05	1.81	209	1.1
K293206		0.02	0.72	4	<0.05	0.94	44	0.5
K293207		<0.02	0.32	4	<0.05	0.97	40	<0.5



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CERTIFICATE OF ANALYSIS WH17133881

	CERTIFICATE COMMENTS								
Applies to Method:	<p style="text-align: center;">ANALYTICAL COMMENTS</p> <p>Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g). ME- MS41</p>								
Applies to Method:	<p style="text-align: center;">LABORATORY ADDRESSES</p> <p>Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU- 31</td> <td style="width: 33%;">CRU- QC</td> <td style="width: 33%;">LOG- 21</td> <td style="width: 33%;">LOG- 23</td> </tr> <tr> <td>PUL- 31</td> <td>PUL- QC</td> <td>SPL- 21</td> <td>WEI- 21</td> </tr> </table>	CRU- 31	CRU- QC	LOG- 21	LOG- 23	PUL- 31	PUL- QC	SPL- 21	WEI- 21
CRU- 31	CRU- QC	LOG- 21	LOG- 23						
PUL- 31	PUL- QC	SPL- 21	WEI- 21						
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. ME- MS41</p>								



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CERTIFICATE WH17133890

Project: Michelle

This report is for 31 Rock samples submitted to our lab in Whitehorse, YT, Canada on 1-JUL- 2017.

The following have access to data associated with this certificate:

JOAN MARIACHER		
----------------	--	--

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
CRU- QC	Crushing QC Test
LOG- 21	Sample logging - ClientBarCode
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Pb- OG46	Ore Grade Pb - Aqua Regia	ICP- AES
Zn- OG46	Ore Grade Zn - Aqua Regia	ICP- AES
ME- MS41	Ultra Trace Aqua Regia ICP- MS	

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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.

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Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Michelle

CERTIFICATE OF ANALYSIS WH17133890

Sample Description	Method Analyte Units LOR	WEI- 21	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	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
K293208		0.57	0.41	0.10	62.4	<0.02	<10	460	0.40	0.03	0.51	52.7	24.7	1.7	8	0.15
K293209		1.15	2.59	0.01	2.9	<0.02	<10	380	<0.05	0.08	13.40	20.5	0.29	0.2	2	<0.05
K293210		1.10	0.29	0.09	19.2	<0.02	<10	1870	0.34	0.02	>25.0	19.40	3.76	6.8	6	0.06
K293211		1.05	1.27	0.08	3.5	<0.02	<10	90	0.08	0.01	17.65	173.5	1.78	0.4	1	0.16
K293212		1.15	0.57	0.02	6.0	<0.02	<10	90	0.05	0.50	18.70	80.3	0.60	0.4	<1	0.05
K293213		0.98	41.8	0.03	6.7	<0.02	<10	60	<0.05	0.01	0.74	>1000	0.73	0.3	<1	<0.05
K293214		0.98	49.1	0.13	89.1	<0.02	<10	110	0.05	0.06	0.49	103.5	1.13	0.5	1	0.08
K293215		0.95	3.58	0.02	3.9	<0.02	<10	410	<0.05	0.01	17.25	128.5	0.99	0.5	<1	0.09
K293216		2.00	15.85	0.04	6.0	<0.02	<10	1370	<0.05	0.08	10.10	244	0.62	0.4	<1	0.05
K293217		2.03	28.7	0.05	11.3	<0.02	<10	1900	<0.05	0.08	9.83	115.0	0.75	0.4	<1	0.05
K293218		1.86	10.15	0.02	7.2	<0.02	<10	2390	<0.05	0.04	18.40	62.9	0.44	0.5	<1	<0.05
K293219		1.78	17.95	0.05	4.6	<0.02	<10	1510	0.05	0.05	15.75	67.3	0.97	0.5	1	0.06
K293220		1.94	3.84	0.03	5.0	<0.02	<10	1080	0.05	0.02	16.70	111.5	0.79	0.5	1	0.06
K293221		1.82	57.3	0.09	8.1	<0.02	<10	780	0.05	0.11	1.80	28.5	1.05	0.4	4	0.07
K293222		2.77	48.8	0.03	10.1	<0.02	<10	900	<0.05	0.07	0.64	13.90	0.36	0.1	1	<0.05
K293223		1.97	64.8	0.13	45.2	<0.02	<10	670	0.06	0.10	0.81	16.05	1.28	0.5	2	0.09
K293224		1.85	64.7	0.11	53.9	<0.02	<10	490	0.05	0.08	0.75	32.5	1.09	0.4	2	0.09
K293225		2.39	5.03	0.04	2.7	<0.02	<10	1190	0.05	0.02	17.40	51.0	0.64	0.5	1	0.08
K293226		2.50	2.81	0.06	2.2	<0.02	<10	980	0.05	0.02	17.15	72.8	0.97	0.7	1	0.09
K293227		2.88	0.66	0.04	1.5	<0.02	<10	710	<0.05	0.02	19.85	13.40	0.76	0.6	1	0.09
K293228		1.96	0.51	0.02	1.4	<0.02	<10	940	<0.05	<0.01	18.30	60.6	0.39	0.6	<1	0.06
K293229		2.14	2.72	0.06	1.8	<0.02	<10	1720	<0.05	0.01	18.70	59.9	0.96	0.7	1	0.10
K293230		1.22	0.38	0.02	1.3	<0.02	<10	440	<0.05	<0.01	19.65	2.22	0.58	0.6	1	0.07
K293231		2.10	0.22	0.03	0.7	<0.02	<10	480	0.05	<0.01	21.2	2.40	0.80	0.7	1	0.08
K293232		1.53	0.09	0.02	0.5	<0.02	<10	130	0.05	<0.01	21.8	0.27	0.61	0.6	<1	0.06
K293233		1.88	0.09	0.02	0.1	<0.02	<10	150	<0.05	<0.01	22.2	0.46	0.45	0.6	<1	0.06
K293234		2.57	0.03	0.02	0.6	<0.02	<10	190	<0.05	<0.01	23.9	0.17	0.71	0.4	<1	<0.05
K293235		1.87	0.03	0.02	0.4	<0.02	<10	180	<0.05	<0.01	23.1	0.33	0.57	0.4	<1	<0.05
K293236		1.65	0.02	0.02	0.3	<0.02	<10	200	<0.05	<0.01	22.5	0.18	0.78	0.4	1	<0.05
K293237		0.40	1.61	0.02	2.4	<0.02	<10	50	0.06	0.01	16.90	209	1.74	0.5	<1	0.06
K293238		0.61	0.05	0.02	1.9	<0.02	<10	110	<0.05	<0.01	19.75	7.48	0.96	0.7	1	0.07



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 Account: RANSIL

Project: Michelle

CERTIFICATE OF ANALYSIS WH17133890

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	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		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	0.01	0.05
K293208		430	49.6	2.90	0.34	0.04	1.84	0.119	0.01	17.3	0.2	0.25	4510	21.0	0.01	0.06
K293209		5.1	0.25	0.98	0.05	<0.02	0.83	0.009	<0.01	0.2	0.2	7.86	374	0.39	0.01	<0.05
K293210		42.8	3.36	0.33	0.05	0.07	0.14	0.007	0.02	2.4	0.3	3.96	682	6.57	<0.01	0.05
K293211		22.5	0.82	1.30	0.05	0.04	1.28	1.400	0.03	0.9	1.7	9.50	359	1.20	0.02	<0.05
K293212		43.6	1.08	13.60	0.06	<0.02	1.30	0.908	<0.01	0.3	0.3	10.65	690	1.44	0.01	<0.05
K293213		745	2.71	27.9	0.66	<0.02	2.33	0.437	<0.01	0.4	0.6	0.41	2060	3.50	<0.01	<0.05
K293214		496	40.6	68.1	31.1	0.03	3.12	5.70	0.01	0.7	0.6	0.23	258	33.6	0.01	<0.05
K293215		63.4	1.06	2.17	<0.05	<0.02	0.31	0.154	<0.01	0.7	0.5	10.15	1030	2.90	0.01	0.07
K293216		40.3	10.90	12.15	0.35	<0.02	17.45	0.840	<0.01	0.4	0.6	6.07	3160	8.33	0.01	0.10
K293217		76.4	19.75	16.90	0.92	<0.02	15.40	0.771	<0.01	0.5	0.4	5.09	1510	10.35	<0.01	0.10
K293218		7.4	1.09	2.08	<0.05	<0.02	6.83	0.084	<0.01	0.3	0.5	9.87	1130	1.26	0.01	0.08
K293219		24.3	6.04	6.25	0.12	<0.02	4.33	0.132	<0.01	0.9	0.5	8.41	755	6.44	<0.01	0.09
K293220		15.4	2.27	2.17	<0.05	<0.02	2.92	0.058	<0.01	0.6	0.5	9.19	1460	6.65	0.01	0.09
K293221		184.5	30.3	20.0	3.08	0.03	37.0	0.710	0.01	0.7	0.7	0.89	743	28.2	0.01	0.12
K293222		173.5	39.4	16.50	2.56	<0.02	23.9	0.627	<0.01	0.3	0.2	0.20	449	19.20	0.01	0.09
K293223		74.0	37.3	18.50	1.67	0.02	23.2	0.525	0.02	0.8	1.0	0.42	677	25.1	0.01	0.16
K293224		68.9	38.0	22.6	1.60	0.02	24.7	0.522	0.01	0.7	0.9	0.38	739	21.6	0.01	0.16
K293225		9.2	1.59	1.46	<0.05	<0.02	2.69	0.044	<0.01	0.4	0.6	9.87	966	2.56	0.02	0.09
K293226		9.5	1.37	0.94	<0.05	<0.02	1.45	0.024	0.01	0.6	0.8	9.92	871	3.18	0.02	0.11
K293227		3.4	0.31	0.34	<0.05	<0.02	0.40	0.007	<0.01	0.5	0.6	10.95	583	1.03	0.02	0.10
K293228		4.3	0.29	0.22	<0.05	<0.02	0.30	0.006	<0.01	0.3	0.4	10.55	963	1.59	0.02	0.08
K293229		8.6	0.73	0.82	<0.05	<0.02	1.60	0.021	0.01	0.6	0.7	10.45	986	2.75	<0.01	0.12
K293230		2.4	0.20	0.19	<0.05	<0.02	0.15	0.005	<0.01	0.4	0.5	10.45	465	0.73	0.02	0.10
K293231		2.2	0.13	0.17	<0.05	<0.02	0.11	<0.005	<0.01	0.5	0.5	10.45	415	0.43	0.02	0.09
K293232		1.6	0.09	0.11	<0.05	<0.02	0.03	<0.005	<0.01	0.4	0.4	10.55	236	0.15	0.02	0.08
K293233		1.9	0.06	0.09	<0.05	<0.02	0.04	<0.005	<0.01	0.3	0.4	10.65	176	0.14	0.02	0.08
K293234		1.2	0.06	0.07	0.08	<0.02	0.01	<0.005	<0.01	0.4	0.3	10.05	179	0.19	0.02	<0.05
K293235		0.9	0.04	0.07	0.09	<0.02	0.02	<0.005	<0.01	0.4	0.3	10.65	139	0.13	0.02	<0.05
K293236		0.9	0.06	0.10	0.09	<0.02	0.01	<0.005	<0.01	0.5	0.3	10.60	179	0.16	0.02	<0.05
K293237		138.0	2.92	0.18	<0.05	<0.02	0.09	0.127	<0.01	0.9	0.3	9.92	486	0.44	0.01	0.07
K293238		4.4	0.98	0.15	0.08	<0.02	0.05	0.011	<0.01	0.6	0.4	11.20	359	0.85	0.01	<0.05



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 North Vancouver BC V7H 0A7
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Project: Michelle

CERTIFICATE OF ANALYSIS WH17133890

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	
		Ni	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	%
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
K293208		101.0	2300	1650	0.6	0.001	0.01	26.0	1.6	37.1	<0.2	6.0	<0.01	0.07	0.3	<0.005
K293209		1.0	30	5390	0.1	<0.001	0.12	2.69	0.1	2.3	0.4	73.0	<0.01	<0.01	<0.2	<0.005
K293210		252	740	176.0	0.5	<0.001	0.06	9.23	1.0	2.5	<0.2	93.9	<0.01	0.02	0.3	<0.005
K293211		2.0	100	251	1.6	<0.001	0.03	0.66	0.4	1.2	<0.2	74.7	<0.01	0.01	0.3	<0.005
K293212		5.8	110	190.0	0.2	<0.001	0.03	0.59	0.1	2.2	1.2	71.8	<0.01	0.01	<0.2	<0.005
K293213		49.6	110	>10000	0.2	0.001	0.11	14.90	0.2	8.7	1.6	4.2	<0.01	0.01	<0.2	<0.005
K293214		26.8	270	>10000	0.8	0.001	0.28	133.0	0.4	2.1	0.7	8.2	<0.01	0.02	0.2	<0.005
K293215		7.8	60	948	0.3	0.001	0.05	2.28	0.2	1.3	0.2	98.9	<0.01	0.01	<0.2	<0.005
K293216		3.5	30	>10000	0.3	<0.001	0.14	24.2	0.4	16.7	1.3	64.5	<0.01	0.02	<0.2	<0.005
K293217		4.0	40	>10000	0.4	<0.001	0.14	37.9	0.4	13.4	2.0	62.1	<0.01	0.07	<0.2	<0.005
K293218		1.7	30	>10000	0.2	<0.001	0.08	17.00	0.1	2.0	0.8	96.2	<0.01	0.01	<0.2	<0.005
K293219		3.3	50	>10000	0.4	<0.001	0.10	30.5	0.3	4.2	0.5	88.2	<0.01	0.02	<0.2	<0.005
K293220		4.9	40	>10000	0.3	<0.001	0.06	7.16	0.2	2.6	0.3	80.9	<0.01	0.02	<0.2	<0.005
K293221		11.9	110	>10000	0.7	0.001	0.28	88.1	0.6	5.7	3.3	16.6	<0.01	0.08	0.2	<0.005
K293222		10.6	30	>10000	0.2	0.001	0.24	66.1	0.6	3.8	2.4	7.7	<0.01	0.04	<0.2	<0.005
K293223		9.6	60	>10000	1.2	0.001	0.32	98.4	0.8	16.1	3.4	9.7	<0.01	0.14	0.3	<0.005
K293224		9.1	80	>10000	0.9	<0.001	0.41	90.7	0.8	18.2	3.0	10.0	<0.01	0.15	0.2	<0.005
K293225		3.3	20	>10000	0.3	<0.001	0.13	5.62	0.2	2.1	0.3	119.5	<0.01	0.01	<0.2	<0.005
K293226		5.9	40	6060	0.5	<0.001	0.06	3.10	0.3	1.0	<0.2	107.5	<0.01	0.01	<0.2	<0.005
K293227		1.4	30	1530	0.4	<0.001	0.04	0.83	0.2	0.5	<0.2	125.5	<0.01	0.01	<0.2	<0.005
K293228		6.5	20	886	0.2	0.001	0.04	0.53	0.1	0.8	<0.2	84.4	<0.01	0.01	<0.2	<0.005
K293229		3.9	40	6360	0.5	<0.001	0.09	3.20	0.3	1.2	<0.2	109.0	<0.01	0.01	<0.2	<0.005
K293230		1.2	20	583	0.2	<0.001	0.02	0.44	0.1	0.2	<0.2	107.5	<0.01	0.01	<0.2	<0.005
K293231		1.3	20	342	0.3	<0.001	0.02	0.25	0.2	0.3	<0.2	128.5	<0.01	<0.01	<0.2	<0.005
K293232		0.5	20	116.5	0.2	<0.001	0.01	0.14	0.1	<0.2	<0.2	120.5	<0.01	0.01	<0.2	<0.005
K293233		0.5	30	119.5	0.2	<0.001	0.02	0.13	0.1	0.2	<0.2	126.5	<0.01	0.01	<0.2	<0.005
K293234		0.6	40	45.9	0.2	<0.001	0.02	0.20	0.1	0.4	<0.2	132.0	<0.01	<0.01	<0.2	<0.005
K293235		0.3	40	63.6	0.2	<0.001	0.02	0.21	0.1	0.4	<0.2	119.0	<0.01	<0.01	<0.2	<0.005
K293236		0.5	30	25.9	0.2	<0.001	0.02	0.17	0.2	0.4	<0.2	118.5	<0.01	<0.01	<0.2	<0.005
K293237		0.9	20	652	0.2	<0.001	0.03	0.45	0.2	1.1	<0.2	71.5	<0.01	0.02	<0.2	<0.005
K293238		4.2	70	20.5	0.3	<0.001	0.01	0.60	0.2	1.6	<0.2	89.4	<0.01	<0.01	<0.2	<0.005



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Project: Michelle

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Pb- OG46	Zn- OG46	
		Tl	U	V	W	Y	Zn	Zr	Pb	Zn
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.02	0.05	1	0.05	0.05	2	0.5	0.001	0.001
K293208		2.73	3.96	298	0.08	18.30	>10000	2.5		2.79
K293209		0.10	0.28	2	<0.05	0.16	5100	<0.5		
K293210		0.83	2.10	67	0.06	6.72	4630	6.2		
K293211		0.09	0.66	4	<0.05	0.58	>10000	1.8		7.27
K293212		0.08	0.51	4	<0.05	0.37	>10000	<0.5		2.92
K293213		0.55	5.34	3	<0.05	0.34	>10000	0.5	1.195	>30.0
K293214		0.74	15.10	15	<0.05	0.58	>10000	1.2	6.20	4.20
K293215		0.15	1.15	2	<0.05	0.52	>10000	0.5		4.81
K293216		0.60	4.27	3	<0.05	0.34	>10000	<0.5	4.04	10.20
K293217		0.33	5.54	3	<0.05	0.38	>10000	<0.5	4.50	4.45
K293218		0.30	0.62	1	<0.05	0.28	>10000	<0.5	1.700	3.10
K293219		0.22	2.53	3	<0.05	0.45	>10000	<0.5	4.07	2.65
K293220		0.79	1.81	2	<0.05	0.39	>10000	<0.5	1.075	4.76
K293221		0.70	15.55	8	<0.05	0.56	>10000	1.2	19.50	2.05
K293222		0.32	13.20	7	<0.05	0.21	>10000	0.6	13.35	1.850
K293223		0.25	12.65	10	0.20	0.70	>10000	0.8	16.35	1.710
K293224		0.40	10.40	10	0.15	0.61	>10000	1.4	14.70	2.37
K293225		0.31	1.16	3	<0.05	0.41	>10000	<0.5	1.365	2.03
K293226		0.26	1.05	3	<0.05	0.53	>10000	<0.5		2.26
K293227		0.06	0.38	2	<0.05	0.41	2950	<0.5		
K293228		0.54	0.72	2	<0.05	0.27	>10000	<0.5		2.76
K293229		0.20	0.73	3	<0.05	0.49	>10000	<0.5		1.950
K293230		0.06	0.27	2	<0.05	0.28	616	<0.5		
K293231		0.05	0.28	2	<0.05	0.38	622	<0.5		
K293232		<0.02	0.21	1	<0.05	0.31	75	<0.5		
K293233		<0.02	0.29	1	<0.05	0.21	114	<0.5		
K293234		<0.02	0.37	1	<0.05	0.38	32	<0.5		
K293235		<0.02	0.37	1	<0.05	0.28	72	<0.5		
K293236		<0.02	0.34	1	<0.05	0.34	25	<0.5		
K293237		0.02	1.81	2	<0.05	0.59	>10000	<0.5		4.39
K293238		0.05	0.37	2	<0.05	0.54	1800	<0.5		



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CERTIFICATE OF ANALYSIS WH17133890

	CERTIFICATE COMMENTS								
	ANALYTICAL COMMENTS								
Applies to Method:	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g). ME- MS41								
	LABORATORY ADDRESSES								
Applies to Method:	Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada. <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU- 31</td> <td style="width: 33%;">CRU- QC</td> <td style="width: 33%;">LOG- 21</td> <td style="width: 33%;">PUL- 31</td> </tr> <tr> <td>PUL- QC</td> <td>SPL- 21</td> <td>WEI- 21</td> <td></td> </tr> </table>	CRU- 31	CRU- QC	LOG- 21	PUL- 31	PUL- QC	SPL- 21	WEI- 21	
CRU- 31	CRU- QC	LOG- 21	PUL- 31						
PUL- QC	SPL- 21	WEI- 21							
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">ME- MS41</td> <td style="width: 33%;">ME- OG46</td> <td style="width: 33%;">Pb- OG46</td> <td style="width: 33%;">Zn- OG46</td> </tr> </table>	ME- MS41	ME- OG46	Pb- OG46	Zn- OG46				
ME- MS41	ME- OG46	Pb- OG46	Zn- OG46						



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CERTIFICATE WH17139671

Project: Michelle

This report is for 43 Rock samples submitted to our lab in Whitehorse, YT, Canada on 7-JUL- 2017.

The following have access to data associated with this certificate:

JOAN MARIACHER		
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
CRU- QC	Crushing QC Test
LOG- 21	Sample logging - ClientBarCode
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Ag- OG46	Ore Grade Ag - Aqua Regia	ICP- AES
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Pb- OG46	Ore Grade Pb - Aqua Regia	ICP- AES
Zn- OG46	Ore Grade Zn - Aqua Regia	ICP- AES
ME- MS41	Ultra Trace Aqua Regia ICP- MS	

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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 North Vancouver BC V7H 0A7
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Sample Description	Method	WEI- 21	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	
	Analyte	Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	
	LOR	0.02	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05	
K293270		1.18	14.85	0.03	9.1	<0.02	<10	140	<0.05	0.01	2.81	>1000	5.47	0.2	<1	<0.05	
K293271		1.42	3.54	0.01	2.5	<0.02	<10	160	<0.05	<0.01	20.3	7.71	3.75	0.2	<1	0.18	
K293272		1.49	>100	0.02	24.3	<0.02	<10	380	<0.05	0.02	16.45	25.1	0.38	0.2	<1	0.13	
K293273		1.29	1.17	0.02	0.8	<0.02	<10	90	0.05	<0.01	21.4	5.22	0.54	0.3	1	0.16	
K293274		1.78	14.35	0.03	2.3	<0.02	<10	190	<0.05	0.01	17.40	146.5	0.57	0.3	1	0.20	
K293275		1.54	1.98	0.08	319	<0.02	<10	390	<0.05	3.88	1.01	32.9	6.63	0.9	<1	<0.05	
K293276		1.55	7.83	0.01	2.5	<0.02	<10	120	<0.05	0.03	19.90	59.1	0.47	0.2	<1	0.15	
K293277		1.04	1.24	0.02	1.2	<0.02	<10	140	<0.05	0.01	21.0	12.70	0.65	0.3	1	0.17	
K293278		0.76	0.12	0.05	43.5	<0.02	<10	2170	0.41	0.01	0.16	1.04	1.36	2.8	8	<0.05	
K293279		1.82	1.84	0.03	2.2	<0.02	<10	870	<0.05	0.01	23.2	106.5	2.62	0.3	2	0.11	
K293280		2.23	1.85	0.10	4.7	<0.02	<10	3930	0.10	0.01	23.1	51.8	3.78	0.6	3	0.19	
K293281		2.99	1.73	0.10	1.8	<0.02	<10	2850	0.08	0.01	22.6	18.10	4.20	0.4	2	0.20	
K293282		3.04	0.26	0.04	0.5	<0.02	<10	3740	<0.05	<0.01	22.8	2.08	1.81	0.3	1	0.11	
K293283		2.28	0.59	0.04	1.4	<0.02	<10	290	<0.05	<0.01	21.1	6.90	1.36	0.3	1	0.12	
K293284		1.83	2.39	0.06	28.1	<0.02	<10	2320	<0.05	0.01	9.41	<10	29.7	1.22	0.3	6	0.08
K293285		1.52	0.84	0.05	5.3	<0.02	<10	1570	0.09	0.01	23.1	5.81	3.43	0.4	4	0.14	
K293286		2.06	0.49	0.02	1.4	<0.02	<10	240	<0.05	<0.01	23.9	3.15	1.38	0.2	1	0.08	
K293287		2.22	0.34	0.03	1.0	<0.02	<10	180	<0.05	<0.01	22.4	1.87	1.30	0.2	1	0.11	
K293288		1.95	0.40	0.04	0.7	<0.02	<10	140	0.05	<0.01	23.4	1.75	3.07	0.3	1	0.12	
K293289		2.28	0.37	0.04	1.0	<0.02	<10	140	<0.05	<0.01	22.4	<10	1.65	1.34	0.3	1	0.11
K293290		1.90	2.92	0.05	1.5	<0.02	<10	1100	<0.05	0.01	>25.0	3.99	3.02	0.4	1	0.10	
K293291		2.17	0.64	0.02	0.8	<0.02	<10	230	<0.05	0.01	22.9	5.73	1.26	0.3	1	0.12	
K293292		2.28	0.69	0.03	0.7	<0.02	<10	160	<0.05	<0.01	21.6	1.98	0.87	0.3	1	0.12	
K293293		1.54	0.87	0.04	1.0	<0.02	<10	240	0.05	<0.01	22.3	2.19	1.42	0.4	1	0.13	
K293294		2.54	0.28	0.02	0.3	<0.02	<10	3140	<0.05	<0.01	>25.0	<10	1.28	1.76	0.2	<1	0.05
K293295		1.93	0.23	0.04	0.9	<0.02	<10	3680	0.05	<0.01	>25.0	1.87	2.15	0.3	1	0.08	
K293296		2.92	5.09	0.10	28.7	<0.02	<10	970	0.10	0.99	18.00	52.7	3.73	0.5	3	0.13	
K293297		2.83	1.39	0.20	4.2	<0.02	<10	870	0.16	0.27	19.25	22.2	6.81	0.6	3	0.17	
K293298		2.94	12.85	0.10	4.4	<0.02	<10	630	0.10	0.38	19.70	31.3	3.83	0.3	2	0.16	
K293299		2.61	15.20	0.15	24.8	<0.02	<10	1430	0.07	0.81	16.50	31.3	4.49	0.5	3	0.14	
K293300		2.55	18.75	0.06	4.7	<0.02	<10	900	0.05	1.06	20.8	3.59	2.26	0.4	1	0.13	
K293301		2.43	21.1	0.07	5.0	<0.02	<10	1400	0.08	1.04	20.7	10.70	2.52	0.3	2	0.14	
K293302		2.00	13.95	0.04	3.7	<0.02	<10	500	<0.05	0.72	20.8	11.20	1.74	0.4	1	0.12	
K293303		2.09	0.55	0.03	3.7	<0.02	<10	4070	<0.05	0.05	20.7	0.47	1.22	0.3	1	0.11	
K293304		3.10	1.33	0.03	4.9	<0.02	<10	3240	<0.05	0.15	20.0	2.83	1.41	0.2	1	0.11	
K293305		2.55	2.05	0.03	0.9	<0.02	<10	3930	<0.05	0.08	22.1	4.70	1.45	0.3	1	0.14	
K293306		2.36	1.40	0.05	5.9	<0.02	<10	790	0.07	0.19	19.75	17.65	2.10	0.4	1	0.12	
K293307		2.86	0.07	0.03	0.7	<0.02	<10	180	<0.05	0.01	22.5	0.15	0.82	0.3	1	0.11	
K293308		2.12	0.23	0.03	0.9	<0.02	<10	230	0.06	0.12	23.2	3.05	1.77	0.3	1	0.12	
K293309		2.37	0.09	0.03	0.8	<0.02	<10	140	<0.05	0.04	>25.0	1.38	2.02	0.3	1	0.10	



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 C/ O ARCHER, CATHRO & ASSOCIATES (1981)
 LIMITED
 1016- 510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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Sample Description	Method	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	ME- MS41
	Analyte	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
Units		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
LOR		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	0.01	0.05
K293270		470	3.91	1.23	0.06	<0.02	0.83	0.011	<0.01	3.3	0.6	1.56	6640	9.49	<0.01	<0.05
K293271		2.6	1.13	0.60	<0.05	<0.02	0.04	0.010	0.01	2.2	0.8	10.50	12700	0.48	0.02	<0.05
K293272		22.9	5.19	6.76	0.09	<0.02	1.45	0.060	0.01	0.3	0.6	9.44	1660	2.31	0.01	<0.05
K293273		2.1	0.23	0.18	<0.05	<0.02	0.05	<0.005	0.01	0.3	0.8	11.35	299	0.36	0.02	<0.05
K293274		41.5	0.19	0.56	0.09	0.02	3.60	0.051	0.02	0.3	0.7	10.10	1320	1.22	0.02	<0.05
K293275		90.5	>50	13.05	0.37	0.02	0.24	2.68	0.01	3.5	0.1	0.53	1060	10.10	0.01	<0.05
K293276		25.2	0.53	0.12	<0.05	<0.02	0.59	0.067	0.01	0.3	0.6	11.25	537	1.03	0.03	<0.05
K293277		1.9	0.30	0.13	<0.05	<0.02	0.06	0.006	0.01	0.4	0.6	11.70	1040	2.09	0.03	<0.05
K293278		19.3	2.00	0.94	<0.05	0.06	0.12	<0.005	<0.01	2.1	0.1	0.07	300	6.96	<0.01	<0.05
K293279		29.5	1.41	1.14	<0.05	<0.02	0.20	0.008	0.01	1.7	0.6	8.46	653	6.55	0.02	<0.05
K293280		57.5	1.01	2.90	<0.05	0.02	0.22	0.017	0.03	2.2	1.0	8.59	398	8.05	0.01	0.06
K293281		7.0	0.32	0.44	<0.05	0.02	0.16	0.005	0.04	2.5	1.0	7.23	310	2.38	0.01	<0.05
K293282		2.3	0.08	0.25	<0.05	<0.02	0.07	<0.005	0.02	1.0	0.7	10.30	428	1.09	0.02	<0.05
K293283		2.9	0.25	0.68	0.05	<0.02	0.25	0.028	0.01	0.8	0.7	11.00	674	0.96	0.03	0.05
K293284		195.5	30.3	119.0	1.18	0.03	0.58	1.160	0.01	1.0	0.4	4.35	344	76.3	0.01	<0.05
K293285		48.5	1.90	11.95	<0.05	0.03	0.17	0.222	0.01	2.5	0.5	8.48	693	9.94	0.01	<0.05
K293286		5.4	0.66	2.42	<0.05	<0.02	0.02	0.032	<0.01	0.9	0.5	9.32	464	1.71	0.02	<0.05
K293287		2.8	0.16	0.56	<0.05	<0.02	0.17	0.014	0.01	0.8	0.6	10.60	491	0.80	0.03	<0.05
K293288		2.2	0.15	0.47	<0.05	<0.02	0.05	0.007	0.01	1.9	0.8	9.89	515	1.42	0.03	0.05
K293289		1.6	0.12	0.27	<0.05	<0.02	0.06	<0.005	0.01	0.8	0.7	10.55	572	1.20	0.03	<0.05
K293290		3.3	0.28	0.55	<0.05	<0.02	0.15	0.009	0.01	2.2	0.8	6.06	604	3.58	0.02	0.05
K293291		3.1	0.13	0.90	0.05	<0.02	0.23	0.044	0.01	0.9	0.7	9.86	652	1.76	0.02	<0.05
K293292		2.8	0.13	0.41	0.05	<0.02	0.06	0.010	0.01	0.6	0.8	10.55	409	1.11	0.02	<0.05
K293293		3.0	0.16	0.36	0.06	<0.02	0.07	0.008	0.01	0.9	1.0	10.65	539	2.43	0.03	0.05
K293294		1.0	0.04	0.14	0.05	<0.02	0.02	<0.005	<0.01	1.7	0.4	5.30	227	0.40	0.01	<0.05
K293295		1.7	0.16	0.23	0.05	<0.02	0.02	<0.005	0.01	1.6	0.6	7.51	444	0.49	0.01	<0.05
K293296		45.8	5.63	3.47	<0.05	0.10	0.74	0.538	0.04	2.0	1.4	10.20	3620	4.55	0.03	<0.05
K293297		65.9	1.46	4.72	<0.05	0.24	0.33	0.825	0.11	3.2	1.6	10.90	2330	2.02	0.03	<0.05
K293298		43.1	2.13	14.00	<0.05	0.08	2.54	5.35	0.04	2.1	1.2	11.15	2580	2.30	0.04	<0.05
K293299		45.4	8.98	6.06	<0.05	0.09	2.63	1.055	0.06	2.5	1.2	8.65	1700	11.55	0.02	0.07
K293300		6.6	1.10	2.14	<0.05	0.03	2.48	0.290	0.02	1.5	0.9	10.40	576	1.39	0.03	<0.05
K293301		10.5	1.02	1.88	<0.05	0.03	2.45	0.265	0.02	1.7	0.9	10.25	682	3.25	0.03	<0.05
K293302		6.3	0.64	1.31	<0.05	<0.02	1.79	0.162	0.01	1.2	0.9	10.70	487	2.19	0.03	<0.05
K293303		1.5	1.09	0.18	<0.05	<0.02	0.07	0.015	0.01	0.8	0.8	9.98	1580	1.16	0.02	<0.05
K293304		3.0	1.51	0.35	<0.05	<0.02	0.13	0.025	0.01	0.9	0.7	9.26	1560	1.98	0.01	<0.05
K293305		3.0	0.25	0.35	<0.05	<0.02	0.31	0.042	0.01	1.0	0.9	10.50	1010	1.04	0.02	<0.05
K293306		7.9	1.78	0.64	<0.05	<0.02	0.12	0.050	0.01	1.2	0.8	10.95	2980	1.97	0.02	<0.05
K293307		1.0	0.08	0.08	<0.05	<0.02	<0.01	<0.005	0.01	0.5	0.7	10.40	379	0.57	0.03	<0.05
K293308		4.5	0.43	0.23	<0.05	<0.02	0.07	0.020	0.01	1.2	0.8	9.69	1050	0.45	0.03	<0.05
K293309		2.6	0.40	0.15	<0.05	<0.02	0.03	0.012	0.01	1.5	0.6	6.92	1040	0.84	0.02	<0.05



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 C/ O ARCHER, CATHRO & ASSOCIATES (1981)
 LIMITED
 1016- 510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Ag- OG46	Pb- OG46	Zn- OG46
		Tl	U	V	W	Y	Zn	Zr	Ag	Pb	Zn
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.02	0.05	1	0.05	0.05	2	0.5	1	0.001	0.001
K293270		0.80	7.51	5	<0.05	4.39	>10000	<0.5			>30.0
K293271		0.08	0.45	1	<0.05	2.81	2440	<0.5			
K293272		0.16	4.13	1	<0.05	0.20	5890	<0.5	157	9.35	
K293273		0.03	0.89	5	<0.05	0.28	1860	0.5			
K293274		0.15	1.10	2	<0.05	0.18	>10000	0.5		3.87	4.99
K293275		0.10	16.95	17	0.05	1.93	>10000	1.1			1.415
K293276		0.07	3.01	4	<0.05	0.19	>10000	<0.5		2.45	2.06
K293277		0.04	1.17	2	<0.05	0.31	4910	<0.5			
K293278		0.11	1.63	128	0.15	3.41	1040	5.8			
K293279		0.05	0.79	12	<0.05	1.76	>10000	0.6			2.85
K293280		0.07	0.97	25	0.05	2.08	>10000	1.5			1.040
K293281		0.04	0.81	6	<0.05	1.70	2050	1.3			
K293282		0.02	0.77	3	<0.05	0.74	452	0.5			
K293283		0.02	0.25	3	<0.05	0.45	1630	<0.5			
K293284		0.12	3.67	98	<0.05	2.17	>10000	2.5			1.045
K293285		0.09	0.69	26	<0.05	3.17	1040	2.7			
K293286		<0.02	0.26	5	<0.05	0.94	358	<0.5			
K293287		0.02	0.24	4	<0.05	0.64	147	<0.5			
K293288		0.02	0.22	5	<0.05	1.14	125	<0.5			
K293289		<0.02	0.24	3	<0.05	0.56	100	<0.5			
K293290		0.02	0.25	5	<0.05	1.74	530	<0.5			
K293291		0.03	0.21	6	<0.05	0.81	569	<0.5			
K293292		0.02	0.22	5	<0.05	0.45	106	<0.5			
K293293		0.03	0.20	9	<0.05	0.75	96	<0.5			
K293294		<0.02	0.19	2	<0.05	1.30	41	<0.5			
K293295		0.02	0.65	5	<0.05	1.47	84	<0.5			
K293296		0.10	2.65	12	<0.05	2.25	>10000	3.3			2.19
K293297		0.08	3.52	10	<0.05	2.98	8740	7.7			
K293298		0.07	2.70	7	<0.05	1.65	6480	3.1			
K293299		0.06	4.61	9	0.05	2.11	7970	3.7			
K293300		0.04	1.14	6	<0.05	1.20	1470	0.9			
K293301		0.04	1.35	7	<0.05	1.39	4260	1.0			
K293302		0.03	0.79	6	<0.05	0.89	4200	0.5			
K293303		0.03	0.92	3	<0.05	0.81	221	<0.5			
K293304		0.05	0.78	3	<0.05	0.73	866	<0.5			
K293305		0.03	0.67	3	<0.05	0.79	1540	<0.5			
K293306		0.07	1.12	5	<0.05	0.98	4160	0.5			
K293307		0.02	0.75	4	<0.05	0.39	46	<0.5			
K293308		0.02	0.71	7	<0.05	0.93	368	<0.5			
K293309		0.02	0.54	5	<0.05	1.19	284	<0.5			



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 C/ O ARCHER, CATHRO & ASSOCIATES (1981)
 LIMITED
 1016- 510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	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	ME- MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
K293310		1.88	0.20	0.03	1.7	<0.02	<10	200	<0.05	0.11	20.9	2.91	1.91	0.3	1	0.15
K293311		1.26	0.54	0.03	45.7	<0.02	<10	3000	0.20	0.03	12.95	12.55	2.10	1.6	4	0.07
K293312		1.21	4.32	0.02	0.8	<0.02	<10	180	0.05	0.02	18.75	42.7	0.57	0.3	1	0.18

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



ALS Canada Ltd.
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 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Sample Description	Method Analyte Units LOR	ME- MS41 Cu ppm	ME- MS41 Fe %	ME- MS41 Ga ppm	ME- MS41 Ge ppm	ME- MS41 Hf ppm	ME- MS41 Hg ppm	ME- MS41 In ppm	ME- MS41 K %	ME- MS41 La ppm	ME- MS41 Li ppm	ME- MS41 Mg %	ME- MS41 Mn ppm	ME- MS41 Mo ppm	ME- MS41 Na %	ME- MS41 Nb ppm
		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	0.01	0.05
K293310		2.1	1.07	0.21	<0.05	<0.02	0.03	0.008	0.01	1.4	0.8	10.40	3100	4.50	0.03	<0.05
K293311		13.6	13.20	1.74	0.07	<0.02	0.34	0.334	<0.01	1.4	0.4	7.38	421	11.75	0.01	<0.05
K293312		4.9	0.55	0.40	<0.05	<0.02	0.59	0.096	0.01	0.4	0.7	10.85	1470	2.07	0.03	<0.05



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 Finalized Date: 31- JUL- 2017
 Account: RANSIL

Project: Michelle

CERTIFICATE OF ANALYSIS WH17139671

Sample Description	Method Analyte Units LOR	ME- MS41 Ni ppm	ME- MS41 P ppm	ME- MS41 Pb ppm	ME- MS41 Rb ppm	ME- MS41 Re ppm	ME- MS41 S %	ME- MS41 Sb ppm	ME- MS41 Sc ppm	ME- MS41 Se ppm	ME- MS41 Sn ppm	ME- MS41 Sr ppm	ME- MS41 Ta ppm	ME- MS41 Te ppm	ME- MS41 Th ppm	ME- MS41 Ti %
K293310		1.5	30	17.5	0.5	<0.001	0.01	0.59	0.2	2.4	<0.2	165.0	<0.01	0.01	<0.2	<0.005
K293311		22.0	900	735	0.2	<0.001	0.05	20.5	0.4	2.3	<0.2	88.2	<0.01	<0.01	<0.2	<0.005
K293312		0.8	210	>10000	0.5	<0.001	0.18	3.57	0.1	0.6	0.4	107.5	<0.01	<0.01	<0.2	<0.005

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



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CERTIFICATE OF ANALYSIS WH17139671

Sample Description	Method Analyte Units LOR	ME- MS41 Tl ppm 0.02	ME- MS41 U ppm 0.05	ME- MS41 V ppm 1	ME- MS41 W ppm 0.05	ME- MS41 Y ppm 0.05	ME- MS41 Zn ppm 2	ME- MS41 Zr ppm 0.5	Ag- OG46 Ag ppm 1	Pb- OG46 Pb % 0.001	Zn- OG46 Zn % 0.001
K293310		0.05	0.70	4	<0.05	1.06	1020	<0.5			
K293311		0.07	2.25	50	0.06	1.96	>10000	0.9			1.765
K293312		0.08	1.91	3	<0.05	0.31	>10000	0.6		1.615	2.04



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CERTIFICATE OF ANALYSIS WH17139671

	CERTIFICATE COMMENTS								
	ANALYTICAL COMMENTS								
Applies to Method:	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g). ME- MS41								
	LABORATORY ADDRESSES								
Applies to Method:	Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU- 31</td> <td style="width: 33%;">CRU- QC</td> <td style="width: 33%;">LOG- 21</td> <td style="width: 33%;">LOG- 23</td> </tr> <tr> <td>PUL- 31</td> <td>PUL- QC</td> <td>SPL- 21</td> <td>WEI- 21</td> </tr> </table>	CRU- 31	CRU- QC	LOG- 21	LOG- 23	PUL- 31	PUL- QC	SPL- 21	WEI- 21
CRU- 31	CRU- QC	LOG- 21	LOG- 23						
PUL- 31	PUL- QC	SPL- 21	WEI- 21						
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Ag- OG46</td> <td style="width: 33%;">ME- MS41</td> <td style="width: 33%;">ME- OG46</td> <td style="width: 33%;">Pb- OG46</td> </tr> <tr> <td>Zn- OG46</td> <td></td> <td></td> <td></td> </tr> </table>	Ag- OG46	ME- MS41	ME- OG46	Pb- OG46	Zn- OG46			
Ag- OG46	ME- MS41	ME- OG46	Pb- OG46						
Zn- OG46									



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Account: RANSIL

CERTIFICATE WH17165196

Project: Michelle

This report is for 1 Rock sample submitted to our lab in Whitehorse, YT, Canada on 8- AUG- 2017.

The following have access to data associated with this certificate:

JOAN MARIACHER	JACK MORTON
----------------	-------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES	
ALS CODE	DESCRIPTION
Zn- VOL50	Zn by titration

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 WH17165196

Sample Description	Method Analyte Units LOR	Zn- VOL50 Zn % 0.01
K293213		46.43



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Project: Michelle

CERTIFICATE OF ANALYSIS WH17165196

CERTIFICATE COMMENTS	
Applies to Method:	<p style="text-align: center;">LABORATORY ADDRESSES</p> <p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. FND- 02 Zn- VOL50</p>