



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

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

Page: 1  
Finalized Date: 11-SEP-2012  
Account: RANSIL

**CERTIFICATE WH12195450**

Project: VAT Claims

P.O. No.:

This report is for 99 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
ME-MS61	48 element four acid ICP-MS
Au-ICP21	Au 30g FA ICP-AES Finish ICP-AES

To: **SILVER RANGE RESOURCES LTD.**  
**ATTN: JOAN MARIACHER**  
**C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**1016-510 W HASTINGS ST**  
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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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Page: 2 - A  
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**CERTIFICATE OF ANALYSIS WH12195450**

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ61871		0.23	0.001	0.15	8.20	3.2	990	2.31	0.42	1.77	0.10	62.1	6.9	25	6.21	16.8
ZZ61872		0.24	<0.001	0.31	8.69	5.4	850	4.98	0.91	1.21	0.10	88.9	6.8	39	10.35	12.0
ZZ61873		0.31	0.001	0.28	8.46	5.5	740	6.13	0.88	1.02	0.12	109.5	5.9	37	11.00	9.0
ZZ61874		0.23	0.006	0.20	8.18	2.5	900	2.01	0.28	1.99	0.12	50.5	8.6	19	3.07	18.4
ZZ61875		0.23	0.002	0.19	8.47	3.5	860	4.41	0.51	1.29	0.13	83.5	10.7	43	8.10	23.4
ZZ61876		0.22	0.002	0.09	8.98	3.8	730	3.88	0.71	0.95	0.07	139.0	8.8	61	9.46	16.7
ZZ61877		0.21	0.002	0.11	7.22	11.3	1100	2.17	0.47	1.17	0.33	70.1	8.3	59	6.30	14.4
ZZ61878		0.26	0.003	0.08	8.74	3.3	800	4.16	0.61	1.35	0.13	105.5	9.7	43	8.70	14.2
ZZ61879		0.35	0.002	0.17	7.98	5.2	840	3.26	0.53	1.33	0.10	80.6	5.5	28	5.96	13.3
ZZ61880		0.28	0.002	0.17	8.29	6.5	850	3.90	0.64	1.30	0.14	88.9	6.9	33	6.67	15.1
ZZ61881		0.25	0.002	0.33	7.32	10.5	840	3.77	0.89	0.92	0.23	74.0	9.8	43	8.34	13.1
ZZ61882		0.29	0.001	0.19	7.42	7.9	800	3.75	0.81	1.03	0.18	69.6	5.3	33	7.62	12.1
ZZ61883		0.33	0.002	0.70	7.91	5.5	760	6.38	1.19	1.61	0.07	75.2	7.3	32	10.70	14.2
ZZ61884		0.33	0.001	0.31	7.53	8.8	780	5.77	0.94	1.19	0.29	86.4	8.0	33	8.82	16.2
ZZ61885		0.31	0.002	0.32	8.44	4.5	760	6.00	0.96	1.32	0.06	101.5	6.0	31	14.35	12.1
ZZ61886		0.30	0.002	0.20	8.11	10.3	770	5.74	0.92	0.84	0.19	119.0	6.0	39	10.65	8.9
ZZ61887		0.39	0.002	0.23	8.52	9.4	730	8.59	1.07	0.96	0.29	122.0	4.9	31	10.85	9.9
ZZ61888		0.29	0.001	0.20	7.62	8.2	850	3.65	0.76	1.38	0.14	90.1	7.4	40	8.35	14.2
ZZ61889		0.23	0.002	0.16	7.56	6.5	790	3.82	0.59	1.44	0.46	84.5	7.4	30	7.11	12.1
ZZ61890		0.19	<0.001	0.13	7.80	4.5	880	2.07	0.38	1.94	0.09	48.5	8.9	19	3.34	18.6
ZZ61891		0.20	0.003	0.12	7.40	5.0	850	2.36	0.43	1.52	0.12	58.3	5.5	21	4.90	16.1
ZZ61892		0.41	0.003	0.07	6.10	15.5	1000	2.43	0.86	0.58	0.13	78.3	5.6	63	10.70	14.2
ZZ61893		0.42	0.002	0.11	7.38	10.1	870	3.31	0.52	1.01	0.22	101.0	8.2	61	7.30	12.3
ZZ61894		0.31	0.001	0.15	7.02	7.4	740	3.10	0.75	0.99	0.22	76.4	5.6	45	7.47	10.1
ZZ61895		0.34	0.005	0.12	7.67	10.1	990	3.43	0.56	0.97	0.20	87.2	8.2	62	7.06	12.8
ZZ61896		0.31	0.001	0.17	8.12	7.8	820	3.24	0.66	1.75	0.22	74.2	10.1	33	7.08	18.9
ZZ61897		0.34	0.003	0.18	7.39	7.7	830	3.47	0.63	1.27	0.17	105.5	7.9	37	6.87	14.8
ZZ61898		0.34	0.004	0.10	7.66	8.0	830	4.61	0.61	1.10	0.19	104.0	7.0	43	7.14	10.9
ZZ61899		0.33	0.002	0.17	7.51	8.5	840	4.39	0.68	1.11	0.48	81.3	8.2	44	7.87	14.7
ZZ61900		0.38	0.010	0.18	7.52	5.6	780	4.99	0.62	1.17	0.21	142.5	7.4	44	8.21	16.1
ZZ61901		0.42	0.004	0.15	7.74	6.5	790	4.35	1.10	1.16	0.27	102.5	10.5	54	9.14	20.5
ZZ61902		0.36	0.002	0.15	7.13	4.5	700	3.87	0.52	1.12	0.23	82.0	7.1	36	7.18	15.3
ZZ61903		0.39	0.002	0.10	7.23	6.5	770	3.23	0.79	1.21	0.18	64.4	8.6	49	8.31	17.7
ZZ61904		0.33	0.002	0.12	6.31	6.8	730	2.37	0.50	1.04	0.25	62.7	5.9	39	5.50	12.4
ZZ61905		0.26	0.003	0.15	6.38	8.1	780	3.31	0.86	0.85	0.21	66.4	10.1	53	7.17	16.3
ZZ61906		0.27	0.001	0.10	6.64	3.3	690	1.46	0.25	2.01	0.14	42.5	8.4	21	2.47	14.3
ZZ61907		0.29	0.001	0.09	7.05	5.9	750	2.50	0.57	1.45	0.15	63.0	7.5	42	5.56	15.8
ZZ61908		0.28	0.001	0.10	7.33	2.1	660	1.33	0.14	2.83	0.10	37.9	10.6	16	1.38	15.6
ZZ61909		0.33	0.003	0.34	5.96	9.9	730	2.47	0.70	0.73	0.28	71.1	5.2	56	6.26	12.6
ZZ61910		0.24	0.001	0.22	6.91	3.1	730	2.40	0.46	1.65	0.16	50.2	6.3	21	4.63	14.4



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**CERTIFICATE OF ANALYSIS WH12195450**

Sample Description	Method Analyte Units LOR	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
ZZ61871		2.16	23.3	0.09	3.3	0.031	2.40	29.6	33.0	0.64	608	1.64	2.45	10.8	6.7	880
ZZ61872		2.60	28.2	0.12	2.9	0.045	2.55	42.8	95.6	0.67	459	0.95	1.93	12.8	12.4	1330
ZZ61873		2.45	29.0	0.15	2.6	0.047	2.66	62.6	82.2	0.61	308	0.57	1.84	12.5	11.1	1180
ZZ61874		2.48	22.1	0.08	3.4	0.026	2.39	24.7	31.5	0.74	538	1.52	2.68	8.2	8.8	840
ZZ61875		3.00	23.8	0.12	2.6	0.042	2.15	42.1	63.3	0.71	802	1.22	1.95	12.1	18.6	1670
ZZ61876		3.62	28.9	0.15	2.2	0.062	2.38	67.8	65.5	0.76	468	1.13	1.68	17.7	17.9	810
ZZ61877		3.81	23.4	0.07	2.4	0.047	2.19	32.9	33.1	0.78	755	2.11	1.58	13.9	16.4	900
ZZ61878		3.29	28.0	0.13	2.2	0.050	2.54	54.6	75.2	0.76	578	0.92	2.10	15.5	15.6	880
ZZ61879		2.32	23.7	0.13	3.0	0.033	2.64	37.0	40.7	0.59	357	1.05	2.15	9.9	9.1	960
ZZ61880		2.66	24.4	0.12	2.9	0.043	2.56	42.1	48.5	0.63	385	1.15	2.08	10.8	12.1	990
ZZ61881		2.80	24.9	0.09	2.4	0.039	2.40	34.9	41.4	0.64	1180	1.40	1.57	11.3	12.1	1430
ZZ61882		2.19	24.0	0.09	2.6	0.035	2.53	32.0	43.2	0.56	428	1.16	1.83	9.5	9.8	900
ZZ61883		2.64	25.4	0.09	3.0	0.039	2.12	38.8	68.0	0.87	384	1.07	1.96	10.0	11.4	1280
ZZ61884		2.42	25.2	0.14	2.8	0.044	2.21	40.0	60.4	0.62	1010	1.39	1.73	9.9	11.9	1420
ZZ61885		2.14	28.5	0.12	3.0	0.039	2.74	48.9	76.2	0.65	439	0.70	2.19	11.0	9.3	1180
ZZ61886		2.40	29.1	0.14	2.7	0.040	3.03	56.1	66.0	0.60	343	0.75	2.04	12.2	12.1	900
ZZ61887		2.10	31.9	0.15	2.5	0.041	3.36	51.7	79.7	0.53	323	0.61	2.17	11.2	10.9	960
ZZ61888		2.75	23.2	0.13	2.5	0.038	2.15	43.4	62.3	0.76	418	1.32	1.88	10.8	13.2	1340
ZZ61889		2.39	23.3	0.11	2.8	0.032	2.49	39.6	40.1	0.68	531	1.10	2.08	10.3	10.2	1070
ZZ61890		2.50	20.5	0.08	3.3	0.027	2.03	23.3	26.0	0.70	823	1.71	2.45	6.7	7.5	1420
ZZ61891		2.06	21.6	0.08	3.1	0.029	2.26	29.4	30.9	0.58	387	1.54	2.26	8.5	7.9	790
ZZ61892		2.64	25.1	0.11	2.5	0.044	2.06	36.5	31.3	0.47	333	2.51	0.98	18.2	15.9	500
ZZ61893		3.19	22.8	0.11	2.2	0.049	2.13	47.6	50.9	0.69	625	1.41	1.44	15.1	18.7	880
ZZ61894		2.90	23.2	0.11	2.2	0.039	2.05	38.2	41.9	0.59	283	1.30	1.49	12.5	12.6	970
ZZ61895		3.01	22.8	0.12	2.4	0.040	2.30	44.2	46.9	0.79	397	1.54	1.54	13.7	19.7	1150
ZZ61896		3.17	26.4	0.11	3.1	0.041	2.29	33.6	46.2	0.91	736	1.26	2.05	10.1	15.0	1150
ZZ61897		2.40	24.0	0.11	2.7	0.036	2.39	48.6	41.2	0.62	744	1.13	1.94	10.4	13.7	1230
ZZ61898		2.29	24.5	0.11	2.2	0.043	2.78	48.2	52.2	0.61	449	0.77	1.94	11.5	16.6	1070
ZZ61899		2.53	24.2	0.09	2.3	0.043	2.50	39.3	53.3	0.68	497	0.97	1.70	11.2	17.9	1130
ZZ61900		2.37	21.5	0.26	2.5	0.047	2.50	68.1	68.2	0.59	445	0.78	1.86	12.1	19.1	1140
ZZ61901		3.07	21.3	0.25	1.9	0.060	2.27	50.2	70.5	0.73	556	0.88	1.55	13.6	25.2	890
ZZ61902		2.40	18.80	0.21	2.2	0.041	2.24	40.6	51.0	0.58	432	0.88	1.76	10.4	15.5	990
ZZ61903		3.16	18.80	0.18	2.1	0.051	1.92	35.0	55.3	0.80	579	1.15	1.51	12.4	19.2	1200
ZZ61904		2.49	16.80	0.16	2.1	0.036	1.96	33.5	32.3	0.54	418	1.29	1.53	10.1	12.5	1280
ZZ61905		3.00	18.85	0.18	2.1	0.053	1.92	35.9	50.1	0.67	696	1.34	1.29	13.4	19.0	1300
ZZ61906		3.03	16.65	0.15	2.6	0.035	1.65	23.8	20.9	0.87	423	1.41	2.12	7.3	10.2	920
ZZ61907		2.86	18.60	0.17	2.3	0.048	1.91	34.1	40.7	0.78	391	1.30	1.66	11.1	15.4	1170
ZZ61908		3.24	18.10	0.15	3.0	0.029	1.68	20.9	18.1	1.10	494	1.36	2.46	6.1	10.3	880
ZZ61909		2.82	16.30	0.18	1.8	0.045	1.72	38.7	35.4	0.48	334	1.55	1.09	12.8	16.3	1150
ZZ61910		2.24	17.50	0.16	2.5	0.032	1.89	27.5	32.9	0.68	403	1.41	2.04	8.0	9.0	860



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Sample Description	Method Analyte Units LOR	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
ZZ61871		17.4	111.0	<0.002	0.02	0.64	7.5	1	3.3	484	0.93	<0.05	9.4	0.359	0.55	7.3
ZZ61872		37.3	184.0	0.004	0.04	0.67	9.7	1	7.1	269	1.18	<0.05	17.3	0.369	1.15	20.8
ZZ61873		42.9	190.0	<0.002	0.03	0.63	9.3	1	8.2	208	1.22	<0.05	22.8	0.356	1.28	16.4
ZZ61874		16.1	82.2	<0.002	0.02	0.54	7.3	<1	2.2	557	0.67	<0.05	7.9	0.325	0.50	2.8
ZZ61875		26.8	133.0	0.002	0.07	0.62	9.7	1	4.3	333	1.04	<0.05	14.1	0.374	0.73	7.1
ZZ61876		36.7	151.5	<0.002	0.04	0.55	13.3	1	6.1	228	1.50	<0.05	24.7	0.524	0.98	6.6
ZZ61877		22.5	142.0	0.002	0.02	1.32	10.4	1	3.2	282	1.09	<0.05	11.5	0.447	0.71	3.6
ZZ61878		31.8	152.0	0.003	0.02	0.45	11.9	1	5.6	315	1.29	<0.05	17.0	0.449	0.89	4.4
ZZ61879		29.0	139.5	0.003	0.03	0.69	7.1	1	4.7	335	0.87	<0.05	17.1	0.336	0.81	3.5
ZZ61880		33.2	138.0	0.002	0.03	0.81	8.0	1	5.1	333	0.95	<0.05	17.3	0.347	0.84	4.6
ZZ61881		53.5	165.0	<0.002	0.06	1.02	8.0	<1	5.6	231	0.96	<0.05	14.5	0.362	1.06	6.1
ZZ61882		36.1	163.5	<0.002	0.04	0.78	6.8	1	5.4	272	0.87	<0.05	13.3	0.302	0.98	5.0
ZZ61883		41.9	125.0	0.002	0.04	0.70	9.5	1	5.3	375	0.94	<0.05	15.3	0.353	0.91	26.9
ZZ61884		36.5	142.0	0.002	0.08	0.78	8.0	1	5.6	281	0.90	<0.05	15.2	0.296	0.91	29.8
ZZ61885		40.4	173.5	0.002	0.03	0.52	8.5	1	7.0	313	1.17	<0.05	20.7	0.349	1.17	63.7
ZZ61886		52.1	208	<0.002	0.02	0.76	8.1	1	7.8	191.0	1.33	<0.05	24.8	0.332	1.43	15.9
ZZ61887		52.0	241	<0.002	0.02	0.72	7.9	1	9.0	208	1.13	<0.05	26.5	0.305	1.41	13.3
ZZ61888		30.5	125.0	0.003	0.05	0.82	9.0	<1	4.3	321	0.94	<0.05	16.3	0.362	0.75	16.3
ZZ61889		30.3	162.0	<0.002	0.04	0.76	7.9	1	4.9	352	0.97	<0.05	16.6	0.348	0.81	6.4
ZZ61890		23.7	69.8	0.003	0.06	0.64	6.3	1	1.6	536	0.56	<0.05	8.1	0.288	0.44	7.8
ZZ61891		18.3	107.0	<0.002	0.04	0.72	6.2	<1	3.4	438	0.72	<0.05	10.0	0.274	0.54	3.6
ZZ61892		24.9	144.5	<0.002	0.02	1.75	10.1	1	5.0	138.0	1.39	<0.05	12.1	0.476	0.86	3.6
ZZ61893		31.1	141.5	<0.002	0.03	1.09	10.8	1	4.7	190.5	1.19	<0.05	18.5	0.420	0.89	3.6
ZZ61894		29.8	138.0	0.002	0.06	0.92	8.8	1	4.9	206	1.06	<0.05	15.1	0.376	0.90	3.5
ZZ61895		31.8	137.0	<0.002	0.03	1.23	10.6	1	4.8	190.0	1.14	<0.05	16.2	0.403	0.93	4.4
ZZ61896		29.1	134.5	<0.002	0.04	0.82	9.5	1	5.1	419	0.92	<0.05	13.7	0.394	0.79	4.6
ZZ61897		34.7	133.5	0.002	0.05	0.84	7.9	1	4.7	308	0.90	<0.05	19.6	0.337	0.91	4.9
ZZ61898		39.4	175.0	<0.002	0.02	0.82	8.5	1	5.8	218	1.01	<0.05	20.1	0.337	1.09	5.1
ZZ61899		37.0	158.0	0.002	0.05	0.88	9.3	1	5.6	228	1.01	<0.05	15.8	0.336	0.98	6.8
ZZ61900		37.2	173.0	<0.002	0.02	0.70	9.2	2	6.0	212	1.21	<0.05	29.2	0.340	1.11	10.9
ZZ61901		30.8	164.0	<0.002	0.02	0.82	11.5	2	5.8	208	1.20	<0.05	19.0	0.371	0.99	5.9
ZZ61902		26.9	145.0	<0.002	0.04	0.56	8.2	2	4.5	250	0.94	<0.05	15.8	0.322	0.88	4.9
ZZ61903		26.4	119.5	<0.002	0.05	0.64	10.2	2	3.2	258	1.20	0.05	13.9	0.370	0.75	9.6
ZZ61904		26.1	112.5	<0.002	0.05	0.70	7.1	2	2.7	243	0.91	0.05	14.2	0.312	0.67	5.6
ZZ61905		27.9	128.5	<0.002	0.06	0.84	9.0	2	3.7	185.0	1.17	0.05	14.8	0.371	0.80	6.4
ZZ61906		13.7	59.2	<0.002	0.04	0.46	8.0	2	1.3	494	0.60	0.05	7.2	0.382	0.33	3.7
ZZ61907		23.8	105.5	<0.002	0.04	0.68	9.5	2	3.1	319	0.96	0.05	13.0	0.378	0.67	6.0
ZZ61908		10.1	44.0	<0.002	0.02	0.37	9.2	2	0.9	650	0.47	0.05	6.0	0.414	0.27	2.3
ZZ61909		29.4	110.0	<0.002	0.06	0.90	8.2	2	2.8	137.5	1.06	0.05	16.5	0.361	0.69	3.7
ZZ61910		17.0	96.5	<0.002	0.04	0.54	7.1	2	2.0	436	0.69	<0.05	10.8	0.284	0.50	5.7



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**CERTIFICATE OF ANALYSIS WH12195450**

Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
ZZ61871		77	1.2	9.1	59	126.5
ZZ61872		80	2.0	13.6	94	101.5
ZZ61873		76	1.8	15.4	72	91.0
ZZ61874		66	0.9	9.3	63	131.0
ZZ61875		82	1.3	13.0	91	94.5
ZZ61876		110	1.6	12.7	78	78.8
ZZ61877		148	1.7	11.9	94	93.0
ZZ61878		91	3.0	14.0	79	84.4
ZZ61879		69	1.2	9.9	60	109.5
ZZ61880		77	2.0	12.1	68	109.0
ZZ61881		93	1.6	9.9	85	89.8
ZZ61882		68	1.3	9.3	77	92.8
ZZ61883		86	1.3	13.4	79	117.5
ZZ61884		70	1.3	14.6	92	102.5
ZZ61885		68	1.5	14.6	79	106.5
ZZ61886		75	1.8	12.8	81	87.9
ZZ61887		58	1.6	13.7	97	92.4
ZZ61888		94	1.4	12.9	84	95.2
ZZ61889		75	1.3	10.7	78	100.5
ZZ61890		66	0.8	9.7	64	123.0
ZZ61891		59	1.1	8.9	64	120.0
ZZ61892		162	2.3	10.3	69	92.6
ZZ61893		110	1.8	13.5	79	79.9
ZZ61894		100	1.5	9.4	58	77.9
ZZ61895		125	1.7	13.8	81	80.5
ZZ61896		97	1.3	11.9	92	107.5
ZZ61897		75	1.3	12.8	71	97.0
ZZ61898		77	1.7	14.3	75	81.2
ZZ61899		80	1.6	13.0	92	81.0
ZZ61900		72	1.7	19.6	84	80.2
ZZ61901		88	16.8	17.1	96	65.3
ZZ61902		67	1.7	12.3	71	74.9
ZZ61903		98	1.7	13.0	90	70.0
ZZ61904		76	1.4	10.4	63	74.8
ZZ61905		97	1.7	11.9	86	69.2
ZZ61906		91	0.7	10.4	58	90.3
ZZ61907		95	1.5	11.6	72	75.7
ZZ61908		99	0.5	10.7	61	102.0
ZZ61909		96	1.7	11.9	61	58.4
ZZ61910		64	1.1	10.3	58	87.8



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ61911		0.28	0.002	0.14	8.54	8.5	790	6.41	2.65	0.86	0.27	92.5	9.4	49	19.35	19.4
ZZ61912		0.24	0.002	0.36	7.30	4.6	750	4.54	1.21	1.03	0.22	71.4	5.3	32	10.65	17.3
ZZ61913		0.25	0.003	0.16	7.02	5.8	760	3.37	1.65	1.22	0.30	59.0	7.2	39	8.57	17.5
ZZ61914		0.34	0.005	0.04	5.89	8.0	790	2.18	0.45	0.87	0.35	64.7	6.7	55	4.41	14.5
ZZ61915		0.41	0.002	0.07	6.74	7.3	800	2.93	0.82	0.86	0.25	57.5	8.1	51	5.68	16.4
ZZ61916		0.29	0.002	0.10	7.95	4.4	930	3.42	0.70	1.04	0.24	146.5	11.8	70	8.89	19.5
ZZ61917		0.35	0.002	0.09	7.10	7.6	860	3.82	1.70	1.10	0.34	61.6	9.0	56	11.25	21.9
ZZ61918		0.37	0.003	0.11	5.82	6.8	880	2.38	0.46	1.22	0.41	72.6	6.6	49	4.13	17.1
ZZ61919		0.35	0.003	0.07	6.38	6.9	840	3.38	0.54	1.29	0.31	88.5	7.0	52	4.07	14.9
ZZ61920		0.27	0.002	0.21	7.33	8.2	810	3.49	1.16	0.92	0.28	55.0	7.6	45	7.57	21.8
ZZ61921		0.31	0.002	0.14	7.93	9.5	830	2.79	1.46	1.31	0.28	42.4	10.3	41	6.71	26.7
ZZ61922		0.39	0.001	0.08	7.40	5.6	830	2.34	0.66	1.57	0.21	63.3	8.5	43	4.34	18.7
ZZ61987		0.25	0.004	0.12	7.29	11.5	800	4.50	0.85	0.94	0.26	83.9	7.6	49	9.73	15.5
ZZ61988		0.37	0.002	0.72	7.06	11.6	720	5.79	1.18	0.68	0.11	82.4	5.0	42	16.05	15.3
ZZ61989		0.31	0.002	0.19	6.63	10.5	690	3.55	0.69	0.87	0.15	66.1	5.1	36	7.03	10.5
ZZ61990		0.30	0.001	0.51	7.95	17.2	750	8.23	2.02	0.58	0.22	83.5	5.9	45	20.3	13.6
ZZ61991		0.31	0.002	0.37	7.49	14.8	720	5.58	1.31	0.71	0.17	85.3	5.8	42	11.65	12.4
ZZ61992		0.27	0.002	0.63	7.13	10.0	710	4.72	1.12	1.02	0.15	71.0	5.3	34	8.93	14.9
ZZ61993		0.37	0.002	0.28	7.69	16.6	690	5.78	1.24	0.56	0.17	93.5	5.7	43	11.15	10.4
ZZ61994		0.31	0.001	0.10	7.70	12.1	650	6.61	1.22	0.59	0.23	95.7	5.2	40	12.75	10.5
ZZ61995		0.31	0.002	0.25	7.09	11.4	750	5.30	0.85	0.75	0.23	81.6	5.5	39	8.75	12.3
ZZ61996		0.35	0.001	0.26	7.94	14.2	700	6.49	1.33	0.58	0.17	90.3	4.8	43	13.65	9.8
ZZ61997		0.38	0.001	0.18	7.69	10.6	660	6.62	0.95	0.71	0.30	83.2	4.7	33	9.66	9.4
ZZ61998		0.29	0.001	0.14	6.96	11.0	620	5.23	0.88	0.69	0.16	93.0	4.7	32	7.94	9.1
ZZ61999		0.30	0.002	0.19	7.38	7.9	760	4.15	0.59	1.29	0.11	72.8	5.4	28	6.39	14.5
ZZ61651		0.23	0.002	0.07	6.97	7.1	870	2.69	0.61	1.20	0.18	69.8	6.4	40	5.70	14.7
ZZ61652		0.17	0.001	0.06	7.39	5.5	850	1.91	0.30	1.84	0.19	42.8	8.9	26	3.62	22.0
ZZ61653		0.21	0.001	0.12	6.86	2.4	780	1.58	0.22	2.06	0.13	36.6	6.4	15	2.19	14.9
ZZ61654		0.16	0.003	0.06	7.02	7.2	840	2.80	0.73	1.27	0.22	68.3	7.9	42	6.37	14.6
ZZ61655		0.24	0.002	0.08	6.14	8.4	920	2.65	0.82	0.90	0.31	65.5	5.2	55	6.29	11.3
ZZ61656		0.13	0.002	0.13	7.21	10.0	850	3.50	0.83	1.17	0.24	58.6	8.1	45	8.64	17.9
ZZ61657		0.21	0.003	0.07	7.04	10.0	840	3.66	0.84	1.08	0.29	105.5	6.7	49	7.28	12.3
ZZ61658		0.11	0.002	0.10	6.73	5.8	790	2.09	0.65	1.55	0.37	48.1	7.4	32	5.79	14.1
ZZ61659		0.11	0.003	0.07	7.11	7.5	870	3.07	0.75	1.18	0.21	57.6	8.2	37	7.03	19.8
ZZ61660		0.22	0.004	0.15	6.51	7.4	810	3.09	0.75	1.04	0.22	95.4	4.8	40	6.13	10.3
ZZ61671		0.27	0.002	0.08	7.59	5.7	770	5.17	0.55	1.08	0.31	125.0	12.1	54	8.76	19.1
ZZ61672		0.12	0.002	0.14	7.96	10.7	850	4.98	0.97	1.09	0.40	62.6	9.7	50	10.25	28.7
ZZ61673		0.19	0.003	0.04	7.51	8.4	800	3.56	0.65	1.17	0.22	76.0	9.2	48	7.52	19.2
ZZ61674		0.33	0.002	0.11	7.50	8.4	830	5.16	0.81	1.05	0.24	91.7	8.1	52	8.45	13.6
ZZ61681		0.22	0.002	0.13	7.47	14.0	820	4.22	0.86	0.83	0.20	76.3	8.1	62	10.10	17.7



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Sample Description	Method Analyte Units LOR	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
ZZ61911		3.41	25.0	0.22	2.3	0.072	2.09	43.4	125.5	0.71	597	1.13	1.27	12.8	21.9	1050
ZZ61912		2.18	21.0	0.17	2.5	0.056	2.07	37.8	80.5	0.50	393	1.21	1.51	10.2	11.9	1210
ZZ61913		2.81	19.80	0.16	2.5	0.046	1.79	32.1	102.0	0.66	443	1.55	1.58	10.6	16.5	1090
ZZ61914		2.62	14.90	0.18	1.9	0.044	1.69	34.3	40.5	0.59	371	1.47	1.26	11.8	21.7	880
ZZ61915		2.81	18.55	0.16	2.0	0.049	1.91	31.3	61.5	0.63	576	1.45	1.36	12.0	21.6	1160
ZZ61916		3.68	21.0	0.29	1.5	0.065	2.09	81.2	94.8	0.86	533	1.42	1.16	15.8	28.1	930
ZZ61917		3.21	20.0	0.18	2.1	0.056	1.61	34.3	73.5	0.68	711	1.97	1.12	13.0	23.9	1470
ZZ61918		2.35	14.65	0.18	2.1	0.038	1.68	39.9	31.5	0.60	435	1.41	1.47	11.2	20.6	1030
ZZ61919		2.43	16.30	0.21	2.0	0.041	1.94	48.2	41.8	0.62	381	1.28	1.62	11.6	23.4	880
ZZ61920		2.86	20.6	0.17	2.2	0.051	1.86	29.0	59.9	0.64	492	1.59	1.36	11.2	21.2	1300
ZZ61921		3.32	19.90	0.17	2.4	0.046	1.80	23.7	53.8	0.78	763	1.82	1.68	10.5	21.9	1310
ZZ61922		2.92	17.30	0.19	2.3	0.043	1.93	34.8	43.5	0.81	461	1.36	1.98	10.7	19.0	820
ZZ61987		2.87	24.1	0.23	2.4	0.052	2.27	44.4	61.9	0.66	529	1.16	1.45	12.6	17.8	990
ZZ61988		2.67	24.2	0.22	2.3	0.051	2.19	44.4	57.5	0.54	375	1.02	1.28	11.2	13.5	1340
ZZ61989		2.32	21.6	0.19	2.2	0.044	2.24	35.3	44.9	0.52	299	1.13	1.56	11.3	11.0	640
ZZ61990		3.18	31.6	0.23	2.4	0.066	2.42	43.9	86.3	0.72	348	1.07	1.10	13.7	13.8	790
ZZ61991		2.71	26.7	0.22	2.4	0.059	2.50	44.5	66.4	0.60	446	1.05	1.41	12.8	12.9	850
ZZ61992		2.42	23.1	0.18	2.4	0.045	2.28	37.9	54.2	0.60	367	1.07	1.54	10.4	10.5	1080
ZZ61993		2.70	27.9	0.22	2.7	0.058	2.79	48.0	72.5	0.58	376	0.99	1.48	13.9	12.7	690
ZZ61994		2.65	29.4	0.23	2.8	0.057	2.82	50.3	87.8	0.60	344	0.81	1.43	13.5	12.7	710
ZZ61995		2.43	24.2	0.22	2.4	0.048	2.58	41.4	62.8	0.55	369	0.96	1.69	12.5	12.8	760
ZZ61996		2.75	30.9	0.22	2.7	0.064	3.01	47.4	85.2	0.61	303	0.74	1.49	13.6	13.2	630
ZZ61997		2.16	27.3	0.21	2.3	0.043	2.96	43.2	72.7	0.52	297	0.66	1.84	11.5	11.0	720
ZZ61998		1.99	22.9	0.19	2.3	0.039	2.75	49.0	54.9	0.44	327	0.76	1.70	10.7	10.1	940
ZZ61999		2.35	21.1	0.20	2.8	0.039	2.25	39.0	46.3	0.61	392	1.24	1.93	10.1	9.7	720
ZZ61651		2.40	21.1	0.17	2.4	0.046	2.16	35.7	40.2	0.64	363	1.36	1.69	11.6	14.3	800
ZZ61652		2.55	19.20	0.15	2.9	0.035	1.90	23.3	29.6	0.78	533	1.70	2.18	8.4	11.5	1080
ZZ61653		2.07	17.85	0.13	2.9	0.027	1.91	20.0	19.1	0.69	360	1.65	2.39	6.7	6.6	870
ZZ61654		2.66	23.0	0.19	2.5	0.050	2.27	34.5	45.0	0.68	492	1.61	1.69	12.0	15.6	860
ZZ61655		2.33	20.1	0.17	2.2	0.051	2.01	34.0	35.4	0.55	295	1.73	1.29	13.9	14.7	750
ZZ61656		2.80	22.6	0.15	2.3	0.054	1.94	30.2	62.4	0.68	568	1.57	1.51	11.8	15.7	1180
ZZ61657		2.54	24.0	0.21	2.3	0.051	2.47	52.8	54.1	0.63	386	1.28	1.64	13.2	17.0	770
ZZ61658		2.68	20.0	0.15	2.4	0.045	1.79	25.1	39.5	0.70	455	1.53	1.80	9.5	11.5	850
ZZ61659		2.56	21.1	0.16	2.6	0.046	1.88	30.4	51.4	0.61	518	1.76	1.64	10.5	14.6	870
ZZ61660		2.11	21.3	0.19	2.1	0.042	2.32	47.9	46.6	0.52	254	1.16	1.59	10.5	13.4	660
ZZ61671		3.20	24.6	0.27	1.7	0.060	2.23	63.9	89.7	0.72	584	1.30	1.56	15.6	23.6	950
ZZ61672		3.21	27.0	0.22	2.4	0.066	2.07	32.4	102.5	0.75	422	1.96	1.47	14.9	25.0	1190
ZZ61673		3.05	24.1	0.22	2.4	0.058	1.99	38.9	73.9	0.78	460	1.69	1.57	14.0	19.0	1070
ZZ61674		2.69	25.5	0.25	2.3	0.058	2.28	47.4	77.8	0.67	432	1.41	1.60	15.9	18.6	1000
ZZ61681		3.36	25.0	0.22	2.1	0.068	1.97	38.9	93.1	0.78	329	1.71	1.21	16.2	21.4	1350





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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.1
ZZ61911		52.4	151.5	<0.002	0.03	0.85	10.9	2	5.2	176.5	1.17	0.05	21.2	0.322	24.7
ZZ61912		30.0	131.0	<0.002	0.06	0.67	7.4	2	3.8	252	0.93	0.05	13.6	0.272	20.2
ZZ61913		29.8	106.5	<0.002	0.07	1.09	8.1	2	3.6	287	1.03	0.06	12.5	0.330	10.1
ZZ61914		20.5	101.0	<0.002	0.06	1.04	8.6	2	2.3	160.0	0.96	0.06	12.7	0.334	3.3
ZZ61915		24.8	125.0	<0.002	0.06	0.93	9.1	2	3.5	166.0	1.04	0.06	12.1	0.335	4.8
ZZ61916		22.4	147.0	<0.002	0.04	0.62	13.6	2	4.5	165.0	1.36	0.06	24.5	0.415	7.7
ZZ61917		32.9	122.5	<0.002	0.08	1.12	10.3	2	4.3	169.0	1.17	0.08	12.5	0.342	8.5
ZZ61918		20.0	90.6	<0.002	0.05	1.02	8.0	2	2.5	219	1.04	0.05	13.7	0.317	5.8
ZZ61919		25.3	113.0	<0.002	0.03	0.93	8.9	2	3.2	198.5	1.02	0.05	18.5	0.332	4.5
ZZ61920		29.1	116.0	<0.002	0.08	1.07	8.4	2	3.7	204	1.07	0.07	11.7	0.312	7.0
ZZ61921		26.3	96.1	<0.002	0.07	0.99	9.4	2	2.6	335	0.95	0.07	9.5	0.316	16.4
ZZ61922		19.3	89.8	<0.002	0.03	0.77	9.4	2	2.5	363	0.93	0.05	12.6	0.345	5.4
ZZ61987		37.6	171.5	<0.002	0.04	0.93	9.1	2	5.8	202	1.17	0.06	18.2	0.344	9.5
ZZ61988		46.9	200	<0.002	0.06	0.92	8.1	2	5.9	165.0	1.08	0.06	19.8	0.300	13.0
ZZ61989		33.4	152.5	<0.002	0.02	0.76	7.4	2	4.9	221	1.01	<0.05	15.4	0.322	4.5
ZZ61990		48.5	240	<0.002	0.03	0.90	9.3	2	9.0	149.0	1.43	0.07	16.2	0.352	9.5
ZZ61991		48.7	206	<0.002	0.03	0.81	8.4	2	7.3	175.0	1.26	0.05	19.4	0.346	8.0
ZZ61992		49.1	163.0	<0.002	0.05	0.69	7.6	2	5.2	254	1.03	<0.05	15.4	0.326	11.5
ZZ61993		52.8	228	<0.002	0.02	0.89	8.6	2	7.9	146.0	1.45	0.05	22.2	0.355	7.3
ZZ61994		50.7	230	<0.002	0.02	1.06	8.5	2	8.7	148.5	1.42	0.06	22.3	0.349	8.4
ZZ61995		41.9	185.5	<0.002	0.02	0.74	7.5	2	6.4	192.5	1.23	<0.05	18.0	0.327	9.8
ZZ61996		49.6	235	<0.002	0.02	0.74	8.7	2	9.5	138.5	1.49	0.05	20.9	0.350	7.7
ZZ61997		42.7	224	<0.002	0.02	0.60	7.2	2	7.6	180.5	1.19	<0.05	21.5	0.298	6.8
ZZ61998		49.1	195.5	<0.002	0.03	0.64	6.5	2	6.0	168.0	1.12	<0.05	22.4	0.288	6.9
ZZ61999		29.4	138.5	<0.002	0.03	0.66	7.4	2	4.0	340	0.90	0.06	15.1	0.314	10.8
ZZ61651		21.9	114.5	<0.002	0.04	0.99	8.5	2	3.6	270	1.04	0.05	13.2	0.328	4.7
ZZ61652		14.9	67.4	<0.002	0.04	0.76	7.9	2	1.8	473	0.68	0.05	7.6	0.322	4.0
ZZ61653		11.8	53.8	<0.002	0.04	0.54	6.1	2	1.3	550	0.56	<0.05	6.2	0.276	2.6
ZZ61654		23.7	130.5	<0.002	0.03	1.10	8.9	2	4.3	280	1.05	0.06	14.0	0.360	4.2
ZZ61655		22.6	122.0	<0.002	0.03	1.21	9.0	2	3.9	165.5	1.11	0.06	12.9	0.372	4.0
ZZ61656		26.0	115.0	<0.002	0.05	1.50	8.9	2	4.0	260	0.97	0.06	11.5	0.327	6.6
ZZ61657		29.5	148.5	<0.002	0.02	1.12	9.0	2	5.0	192.5	1.12	0.06	21.5	0.349	5.3
ZZ61658		18.1	90.1	<0.002	0.04	0.82	7.9	2	2.6	380	0.76	0.06	9.3	0.329	3.7
ZZ61659		25.8	96.0	<0.002	0.04	1.04	7.9	2	3.3	291	0.89	0.06	11.1	0.301	7.7
ZZ61660		29.3	131.5	<0.002	0.03	1.23	7.6	2	3.8	193.0	0.84	0.05	20.2	0.305	4.9
ZZ61671		26.6	152.0	<0.002	0.02	1.16	13.7	3	5.9	198.0	1.34	0.05	20.6	0.417	6.6
ZZ61672		31.8	144.0	<0.002	0.06	1.52	12.5	2	5.4	244	1.28	0.06	12.2	0.369	8.8
ZZ61673		26.5	118.5	<0.002	0.05	1.23	11.5	2	4.3	253	1.20	0.05	14.0	0.384	5.7
ZZ61674		31.2	148.5	<0.002	0.02	1.54	11.8	3	5.4	187.5	1.56	0.05	18.0	0.362	8.0
ZZ61681		35.2	133.5	<0.002	0.04	1.88	12.8	3	5.4	153.5	1.40	0.05	14.5	0.391	9.8





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**CERTIFICATE OF ANALYSIS WH12195450**

Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
ZZ61911		86	4.0	13.8	129	72.6
ZZ61912		60	1.4	12.3	75	87.0
ZZ61913		85	1.4	11.6	87	85.1
ZZ61914		96	1.3	12.0	75	59.8
ZZ61915		97	1.6	12.1	92	63.0
ZZ61916		106	2.2	18.9	103	48.5
ZZ61917		103	3.1	13.9	113	67.9
ZZ61918		90	1.4	15.0	73	69.1
ZZ61919		92	1.3	16.0	81	60.2
ZZ61920		92	1.6	12.6	94	73.9
ZZ61921		95	1.4	11.6	105	82.9
ZZ61922		92	1.2	12.5	76	78.3
ZZ61987		88	1.4	13.4	102	81.3
ZZ61988		75	1.3	13.3	93	79.0
ZZ61989		75	1.3	9.8	69	79.9
ZZ61990		93	1.7	12.4	126	79.3
ZZ61991		82	1.5	11.1	102	81.0
ZZ61992		74	1.2	10.8	88	82.9
ZZ61993		80	1.8	11.8	97	84.4
ZZ61994		73	1.7	11.3	108	90.6
ZZ61995		74	1.4	11.9	87	82.7
ZZ61996		79	1.8	11.4	105	84.6
ZZ61997		61	1.4	10.7	95	78.5
ZZ61998		59	1.3	11.6	76	74.1
ZZ61999		69	1.1	11.9	69	98.5
ZZ61651		87	3.2	11.6	73	75.5
ZZ61652		78	1.1	9.9	69	99.3
ZZ61653		60	1.0	7.9	51	97.8
ZZ61654		96	2.3	11.0	84	78.3
ZZ61655		110	2.4	11.0	65	67.5
ZZ61656		93	2.2	11.1	93	74.2
ZZ61657		90	30.0	13.1	87	70.8
ZZ61658		86	2.3	9.0	69	80.5
ZZ61659		80	2.1	10.6	79	87.7
ZZ61660		81	2.0	11.2	72	64.2
ZZ61671		106	2.1	18.2	95	51.8
ZZ61672		105	2.1	13.4	113	78.7
ZZ61673		106	1.8	12.8	89	74.7
ZZ61674		99	2.4	15.5	82	68.0
ZZ61681		116	2.3	14.6	96	65.3



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**CERTIFICATE OF ANALYSIS WH12195450**

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ61682		0.23	0.002	0.10	7.26	11.8	810	3.80	0.66	1.21	0.31	68.2	9.0	50	7.91	19.8
ZZ61683		0.23	0.001	0.03	7.15	5.2	600	6.33	0.76	1.11	0.16	97.6	5.3	27	7.52	9.8
ZZ61684		0.29	0.002	0.08	7.53	10.6	810	3.95	0.62	1.28	0.26	86.2	9.3	50	8.44	21.1
ZZ61685		0.10	0.003	0.09	6.20	6.3	730	3.82	0.56	0.95	0.31	73.8	5.5	38	7.07	10.8
ZZ61686		0.25	0.003	0.27	7.48	6.5	800	3.37	0.63	1.90	0.16	57.8	13.4	39	5.78	23.5
ZZ61687		0.25	0.002	0.14	7.58	9.1	910	3.87	0.72	1.40	0.33	69.5	11.0	53	7.69	21.0
ZZ61688		0.19	0.003	0.14	6.99	7.4	770	3.28	0.59	1.42	0.23	54.2	7.8	37	8.13	17.5
ZZ61689		0.25	0.003	0.07	7.11	11.8	890	3.65	0.47	1.35	0.24	92.8	9.5	56	8.35	15.0
ZZ61690		0.15	0.001	0.06	6.95	11.8	890	3.69	0.57	1.01	0.32	63.2	9.2	59	9.71	16.5
ZZ61691		0.19	0.002	0.04	6.43	11.1	850	3.08	0.45	1.04	0.27	86.4	7.0	59	7.05	13.8
ZZ61692		0.11	0.001	0.09	6.72	7.6	900	3.16	0.48	1.30	0.26	61.7	9.1	49	6.92	17.2
ZZ61693		0.17	0.001	0.08	6.77	9.0	920	3.29	0.53	1.05	0.23	60.6	10.1	54	7.42	17.6
ZZ61694		0.27	0.004	0.04	7.30	8.4	950	3.42	0.45	1.32	0.24	64.3	9.5	53	7.03	17.1
ZZ61695		0.20	0.002	0.07	6.85	7.0	930	3.41	0.57	1.22	0.28	63.6	8.1	49	9.03	15.7
ZZ61696		0.20	0.001	0.18	6.40	9.2	970	3.09	0.60	0.79	0.82	56.6	18.1	64	10.15	13.0
ZZ61697		0.20	0.002	0.12	7.00	5.7	880	3.16	0.45	1.47	0.39	56.8	6.8	31	5.84	15.5
ZZ61698		0.19	0.001	0.08	6.99	9.6	880	3.86	0.46	1.45	0.32	67.8	8.4	50	6.26	15.4
ZZ61699		0.12	0.002	0.10	7.29	7.1	830	3.15	0.55	1.79	0.41	64.3	11.3	41	5.83	17.8
ZZ61700		0.18	0.002	0.06	7.07	8.8	950	2.87	0.45	1.28	0.28	55.1	9.6	50	5.55	19.0



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**CERTIFICATE OF ANALYSIS WH12195450**

Sample Description	Method Analyte Units LOR	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
ZZ61682		2.97	23.6	0.22	2.3	0.058	1.93	35.1	71.0	0.75	511	1.73	1.51	14.0	19.2	1150
ZZ61683		1.82	25.5	0.25	1.8	0.043	2.46	49.5	80.3	0.37	380	0.80	1.84	12.0	9.9	1610
ZZ61684		3.15	23.2	0.25	2.4	0.055	1.89	43.9	87.4	0.80	464	1.68	1.56	13.3	20.0	1170
ZZ61685		2.12	20.5	0.20	2.0	0.042	1.92	38.2	52.9	0.46	428	1.33	1.37	12.1	12.7	1350
ZZ61686		3.23	23.5	0.25	2.5	0.050	1.75	28.9	53.9	0.97	748	1.80	1.87	10.8	19.2	1160
ZZ61687		3.09	23.3	0.24	2.3	0.056	1.90	35.6	68.2	0.85	673	1.63	1.63	13.6	22.2	1200
ZZ61688		2.52	20.5	0.20	2.4	0.045	1.77	28.2	73.3	0.67	494	1.66	1.73	9.8	14.9	1190
ZZ61689		2.96	21.2	0.25	2.2	0.055	1.85	46.9	68.1	0.81	576	1.35	1.53	13.8	19.5	1150
ZZ61690		3.08	21.9	0.24	2.1	0.062	1.75	33.0	70.1	0.80	579	1.64	1.34	15.4	21.4	1320
ZZ61691		2.68	20.2	0.22	2.3	0.054	1.90	44.4	51.8	0.65	597	1.53	1.34	15.1	16.8	1120
ZZ61692		2.78	19.80	0.23	2.2	0.046	1.79	31.9	51.1	0.76	581	1.61	1.55	11.8	18.3	1230
ZZ61693		2.84	21.3	0.23	2.4	0.051	1.77	31.6	54.8	0.75	716	1.75	1.41	13.8	20.3	1210
ZZ61694		3.02	20.1	0.21	2.3	0.047	1.85	33.0	51.3	0.81	635	1.63	1.63	12.1	18.1	1270
ZZ61695		2.67	21.3	0.25	2.3	0.046	1.98	32.5	47.1	0.65	620	1.71	1.63	12.4	15.3	1270
ZZ61696		3.35	19.60	0.22	2.0	0.053	1.74	28.1	41.8	0.62	2810	2.46	1.05	13.6	16.7	1730
ZZ61697		2.21	19.75	0.21	2.5	0.036	1.96	29.9	56.5	0.61	542	1.52	1.88	9.6	11.0	1190
ZZ61698		2.78	20.4	0.24	2.2	0.047	1.91	34.9	65.3	0.78	547	1.29	1.57	11.6	17.6	1160
ZZ61699		3.10	22.2	0.23	2.3	0.045	1.90	32.2	49.3	0.92	625	1.52	1.79	10.9	17.1	1150
ZZ61700		2.97	20.3	0.22	2.3	0.046	1.86	28.2	52.2	0.79	650	1.68	1.57	11.4	18.3	1320



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**CERTIFICATE OF ANALYSIS WH12195450**

Sample Description	Method Analyte Units LOR	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
ZZ61682		31.6	120.5	<0.002	0.06	1.53	11.5	3	4.3	252	1.15	0.06	13.1	0.365	0.83	6.6
ZZ61683		38.4	172.5	<0.002	0.03	2.00	7.8	3	5.5	191.0	1.11	<0.05	20.0	0.251	1.09	4.5
ZZ61684		26.5	116.0	<0.002	0.05	3.15	11.7	3	4.1	269	1.08	0.06	15.9	0.386	0.82	8.2
ZZ61685		23.6	123.5	<0.002	0.07	1.49	8.0	2	4.1	180.5	1.04	<0.05	14.8	0.299	0.75	5.4
ZZ61686		21.3	87.3	<0.002	0.04	1.00	12.3	2	2.8	420	0.89	0.06	9.8	0.396	0.63	7.4
ZZ61687		25.4	112.5	<0.002	0.05	1.21	12.6	3	3.7	281	1.15	0.05	12.4	0.382	0.79	10.0
ZZ61688		19.6	88.7	<0.002	0.07	2.12	8.9	2	2.7	330	0.81	<0.05	11.7	0.299	0.65	7.9
ZZ61689		24.0	104.5	<0.002	0.04	2.20	11.7	2	3.3	254	1.10	0.06	17.4	0.386	0.73	9.8
ZZ61690		24.0	114.5	<0.002	0.05	1.54	11.9	2	3.5	203	1.23	0.08	12.7	0.372	0.77	10.2
ZZ61691		25.2	116.0	<0.002	0.05	1.42	10.2	2	3.8	186.0	1.23	0.06	15.9	0.376	0.72	4.9
ZZ61692		23.8	93.1	<0.002	0.06	1.19	10.2	2	2.8	274	0.94	0.06	11.2	0.352	0.63	6.7
ZZ61693		24.3	103.5	<0.002	0.05	1.30	10.9	2	3.0	222	1.07	0.06	12.5	0.345	0.69	7.3
ZZ61694		22.1	92.1	<0.002	0.05	1.15	10.7	2	2.6	291	0.96	0.05	12.2	0.373	0.62	8.5
ZZ61695		24.5	117.0	<0.002	0.06	1.12	9.4	2	3.1	271	0.99	0.06	11.9	0.360	0.72	5.7
ZZ61696		32.3	114.5	<0.002	0.07	1.30	9.9	2	3.0	152.0	1.06	0.07	10.6	0.399	0.89	7.1
ZZ61697		20.3	94.2	<0.002	0.06	1.04	7.7	2	2.4	358	0.79	<0.05	10.7	0.298	0.57	6.4
ZZ61698		23.3	100.5	<0.002	0.04	1.44	10.3	2	3.1	272	0.98	0.06	13.0	0.375	0.70	6.7
ZZ61699		21.8	100.0	<0.002	0.05	0.98	11.1	2	2.8	379	0.87	0.06	12.1	0.402	0.61	6.0
ZZ61700		22.7	96.2	<0.002	0.05	1.21	9.8	2	2.7	289	0.90	0.05	10.8	0.349	0.62	5.2



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To: SILVER RANGE RESOURCES LTD.  
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 LIMITED  
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Project: VAT Claims

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Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
ZZ61682		102	2.1	12.5	87	75.2
ZZ61683		51	1.8	13.4	49	53.8
ZZ61684		106	1.8	14.8	91	75.7
ZZ61685		76	1.6	10.7	67	63.6
ZZ61686		108	1.6	14.0	79	81.7
ZZ61687		109	2.1	16.0	94	72.7
ZZ61688		76	1.2	11.7	89	81.4
ZZ61689		106	1.9	16.4	90	69.2
ZZ61690		110	2.1	13.4	99	66.5
ZZ61691		102	1.7	13.5	72	70.3
ZZ61692		101	1.4	12.5	84	72.0
ZZ61693		103	1.8	12.6	84	77.3
ZZ61694		107	1.8	12.6	86	70.0
ZZ61695		100	1.6	11.7	79	76.7
ZZ61696		129	1.7	10.6	75	66.6
ZZ61697		72	1.4	11.1	70	84.0
ZZ61698		104	1.5	13.5	85	70.4
ZZ61699		113	1.6	12.6	85	73.5
ZZ61700		106	1.8	11.8	88	75.8



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