



ALS Canada Ltd.
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To: EQUITY EXPLORATION CONSULTANTS LTD.
1510-250 HOWE STREET
VANCOUVER BC V6C 3R8

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Plus Appendix Pages
Finalized Date: 11-AUG-2015
Account: EIASUM

CERTIFICATE WH15113516

Project: SUM15-01

P.O. No.: SUM15-01_02

This report is for 41 Rock samples submitted to our lab in Whitehorse, YT, Canada on 30-JUL-2015.

The following have access to data associated with this certificate:

EQUITY ENG E-MAIL

THOMAS BRANSON

SUMAC MINES

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
BAG-01	Bulk Master for Storage
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-32	Pulverize 1000g to 85% < 75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: EQUITY EXPLORATION CONSULTANTS LTD.
ATTN: THOMAS BRANSON
1510-250 HOWE STREET
VANCOUVER BC V6C 3R8

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 WH15113516

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA23 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
Q930001		1.06	<0.005	<0.2	4.69	9	10	120	1.4	<2	2.38	0.5	13	67	50	3.71
Q930002		1.05	<0.005	<0.2	1.11	3	<10	100	<0.5	<2	0.55	0.7	6	16	23	2.20
Q930003		0.89	<0.005	<0.2	0.45	<2	<10	30	0.8	<2	0.04	<0.5	1	3	7	1.18
Q930004		1.31	<0.005	<0.2	3.35	2	<10	100	0.7	<2	3.45	<0.5	20	11	19	5.89
Q930005		0.83	<0.005	<0.2	2.54	3	<10	180	1.1	<2	0.23	<0.5	12	82	45	3.77
Q930006		1.27	0.030	1.5	1.53	27	<10	10	<0.5	<2	1.19	<0.5	51	5	1700	10.80
Q930007		1.15	<0.005	<0.2	6.80	14	<10	180	1.5	<2	4.11	<0.5	11	59	113	4.37
Q930008		1.01	0.005	0.2	6.01	14	<10	40	1.0	<2	4.41	<0.5	22	19	421	3.72
Q929901		0.70	<0.005	1.6	0.62	9	<10	20	1.0	5	0.04	<0.5	3	6	14	3.27
Q929902		0.98	<0.005	<0.2	1.62	11	<10	90	0.7	2	0.12	<0.5	6	40	18	2.76
Q929903		0.64	<0.005	<0.2	3.86	<2	<10	190	1.2	<2	0.13	<0.5	20	91	11	5.28
Q929904		0.54	<0.005	<0.2	0.68	9	<10	50	<0.5	2	0.21	<0.5	4	24	37	1.36
Q929905		0.53	<0.005	0.8	0.29	36	<10	10	0.5	<2	0.01	<0.5	1	4	10	2.71
Q929906		0.42	<0.005	<0.2	1.74	<2	<10	150	0.9	<2	0.97	<0.5	4	3	26	3.94
Q929907		0.86	<0.005	<0.2	2.13	2	<10	180	1.3	<2	0.20	<0.5	10	70	21	2.97
Q929908		0.80	<0.005	<0.2	0.40	16	<10	30	0.5	2	0.02	<0.5	<1	5	7	0.68
Q929909		0.90	<0.005	0.2	0.14	12	<10	40	<0.5	<2	0.01	<0.5	1	15	24	0.79
Q929910		0.60	<0.005	0.5	0.44	23	<10	60	<0.5	<2	0.03	<0.5	1	18	36	1.42
Q929911		0.56	<0.005	0.9	0.33	24	<10	110	<0.5	<2	0.01	<0.5	2	15	76	1.37
Q929912		0.52	<0.005	<0.2	0.22	27	<10	40	<0.5	<2	0.13	<0.5	<1	15	8	0.84
Q929913		0.58	<0.005	0.2	0.50	729	<10	80	<0.5	<2	0.07	0.5	3	30	46	1.43
Q929914		0.55	<0.005	<0.2	0.61	3	<10	40	0.5	<2	0.08	<0.5	3	10	6	1.24
Q929915		0.66	<0.005	<0.2	0.35	5	<10	20	<0.5	<2	0.04	<0.5	1	7	28	0.76
Q929916		0.62	<0.005	<0.2	2.25	33	<10	130	0.8	<2	0.23	0.5	9	74	23	3.53
Q929917		0.82	<0.005	<0.2	0.64	42	<10	50	0.5	<2	0.05	<0.5	1	4	35	1.31
Q929918		0.86	<0.005	0.4	0.42	3	<10	20	<0.5	5	0.05	<0.5	1	5	28	0.98
Q929919		0.65	<0.005	<0.2	3.59	21	<10	210	1.0	<2	1.28	<0.5	10	47	49	3.48
Q929920		1.30	<0.005	<0.2	1.28	11	<10	360	0.9	<2	1.08	0.5	7	43	18	1.05
Q929921		1.22	<0.005	<0.2	2.16	13	<10	110	1.4	<2	1.41	<0.5	7	41	34	0.97
Q929922		1.27	<0.005	<0.2	2.05	5	<10	80	0.6	<2	0.81	<0.5	8	51	26	1.92
Q929923		1.17	<0.005	<0.2	2.30	6	<10	120	1.4	<2	1.44	<0.5	10	42	42	1.35
Q929924		0.87	<0.005	0.3	1.28	16	<10	280	0.7	2	1.07	0.7	13	85	112	2.09
Q929925		0.96	<0.005	<0.2	0.41	21	<10	1280	0.5	<2	1.09	0.6	5	47	14	1.04
Q929926		0.63	<0.005	<0.2	0.62	<2	<10	130	1.3	<2	0.04	<0.5	3	5	4	1.46
Q929927		1.21	<0.005	3.9	0.56	<2	<10	180	1.8	8	1.65	114.0	11	14	97	2.26
Q929928		0.92	<0.005	2.4	0.60	<2	<10	440	2.8	7	1.96	43.9	10	32	76	2.95
Q929929		0.93	<0.005	0.7	2.91	20	<10	70	1.0	3	2.31	0.5	12	19	58	1.93
Q929930		0.49	<0.005	<0.2	0.27	2	<10	30	<0.5	<2	0.06	<0.5	3	8	9	1.05
Q929931		0.55	<0.005	<0.2	0.30	<2	<10	30	<0.5	<2	0.03	<0.5	2	20	11	1.06
Q929932		0.67	<0.005	<0.2	0.38	<2	<10	40	1.7	<2	0.03	0.5	<1	5	3	1.78



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CERTIFICATE OF ANALYSIS WH15113516

Sample Description	Method Analyte Units LOR	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
Q930001		20	<1	0.71	20	0.79	360	1	0.44	27	280	14	0.19	<2	8	152
Q930002		10	<1	0.08	20	0.58	533	1	0.08	3	700	14	0.17	<2	2	34
Q930003		<10	<1	0.18	<10	0.01	60	1	0.06	<1	30	10	0.01	<2	1	4
Q930004		10	<1	0.12	20	2.03	864	1	0.27	3	1650	3	0.06	<2	12	152
Q930005		10	1	1.00	30	0.93	331	<1	0.07	36	620	2	0.11	<2	11	30
Q930006		10	1	0.02	10	0.08	305	2	0.15	22	1370	8	7.48	2	<1	52
Q930007		20	1	0.89	40	1.06	280	<1	0.14	35	1000	<2	1.21	2	5	189
Q930008		20	<1	0.05	20	0.07	107	<1	0.20	33	660	8	2.00	<2	1	239
Q929901		<10	<1	0.07	20	0.20	324	5	0.12	3	130	49	0.03	<2	1	9
Q929902		10	<1	0.59	20	0.53	283	<1	0.05	10	260	3	0.03	2	7	10
Q929903		10	<1	1.87	40	1.57	364	<1	0.04	62	480	<2	<0.01	<2	11	9
Q929904		<10	<1	0.16	10	0.31	144	1	<0.01	17	840	3	<0.01	<2	1	6
Q929905		<10	<1	0.01	10	0.01	196	3	0.14	1	100	110	0.01	<2	1	4
Q929906		10	1	0.18	20	0.38	695	<1	0.09	1	800	3	<0.01	2	4	85
Q929907		10	<1	0.99	30	0.95	343	<1	0.07	33	500	5	<0.01	<2	7	12
Q929908		<10	<1	0.25	10	0.01	213	<1	0.08	<1	130	32	<0.01	<2	<1	3
Q929909		<10	<1	0.05	<10	0.05	84	1	<0.01	2	90	3	<0.01	2	<1	2
Q929910		<10	<1	0.14	10	0.14	143	1	<0.01	5	320	20	<0.01	4	1	7
Q929911		<10	<1	0.13	10	0.04	98	2	0.01	3	210	2	<0.01	2	1	3
Q929912		<10	<1	0.07	<10	0.12	82	1	<0.01	2	750	2	0.01	<2	1	4
Q929913		<10	<1	0.11	10	0.28	202	<1	<0.01	9	170	12	<0.01	8	2	3
Q929914		<10	<1	0.17	20	0.16	261	<1	0.07	4	250	5	<0.01	<2	1	7
Q929915		<10	<1	0.10	10	0.05	143	2	0.05	1	60	42	<0.01	<2	<1	4
Q929916		10	1	0.87	30	1.04	384	<1	0.05	32	690	4	<0.01	2	7	14
Q929917		<10	<1	0.12	30	0.03	86	7	0.05	2	100	16	<0.01	<2	1	8
Q929918		<10	1	0.12	20	0.04	107	2	0.05	1	120	81	<0.01	<2	<1	6
Q929919		10	<1	0.64	30	0.84	414	<1	0.09	29	490	6	0.02	3	6	109
Q929920		10	1	0.11	10	0.27	261	1	0.13	46	1800	10	<0.01	2	3	69
Q929921		10	<1	0.21	20	0.34	183	1	0.20	24	810	7	0.08	3	4	102
Q929922		10	<1	0.44	20	0.45	177	<1	0.13	24	260	<2	0.03	<2	8	76
Q929923		10	<1	0.21	30	0.38	177	<1	0.16	27	680	8	0.06	<2	5	103
Q929924		10	<1	0.13	10	0.19	91	12	0.05	131	2190	2	0.83	2	3	57
Q929925		<10	<1	0.07	30	0.17	213	1	0.01	66	3430	8	<0.01	4	4	30
Q929926		<10	1	0.02	30	0.22	2690	<1	0.08	4	150	2	<0.01	<2	1	12
Q929927		<10	1	0.09	30	0.31	2770	<1	0.13	17	450	3220	0.01	2	3	161
Q929928		<10	1	0.10	30	0.50	2470	<1	0.10	37	430	4730	0.10	<2	5	334
Q929929		10	<1	0.06	10	0.07	101	3	0.20	45	1390	26	0.90	11	1	158
Q929930		<10	1	0.08	10	0.04	261	<1	0.04	2	130	21	<0.01	<2	<1	6
Q929931		<10	1	0.04	10	0.11	165	1	<0.01	11	80	7	<0.01	<2	1	2
Q929932		<10	<1	0.13	30	0.01	349	1	0.05	2	50	24	<0.01	<2	<1	4



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CERTIFICATE OF ANALYSIS WH15113516

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
Q930001		<20	0.26	<10	<10	67	<10	89
Q930002		<20	0.15	<10	<10	35	<10	94
Q930003		20	<0.01	<10	<10	1	<10	64
Q930004		<20	0.32	<10	<10	101	<10	114
Q930005		<20	0.23	<10	<10	69	<10	51
Q930006		<20	0.04	<10	10	11	10	33
Q930007		<20	0.25	<10	<10	46	10	39
Q930008		<20	0.11	<10	<10	9	<10	18
Q929901		40	0.02	<10	<10	10	<10	37
Q929902		<20	0.15	<10	<10	36	<10	29
Q929903		<20	0.22	<10	<10	64	<10	50
Q929904		<20	<0.01	<10	<10	46	<10	21
Q929905		40	<0.01	<10	10	2	<10	58
Q929906		<20	0.22	<10	<10	4	<10	68
Q929907		20	0.17	<10	<10	43	<10	53
Q929908		20	<0.01	<10	<10	1	<10	59
Q929909		<20	<0.01	<10	<10	4	<10	6
Q929910		<20	<0.01	<10	<10	20	<10	28
Q929911		<20	<0.01	<10	<10	9	<10	7
Q929912		<20	<0.01	<10	<10	5	<10	5
Q929913		<20	0.03	<10	<10	27	<10	26
Q929914		30	0.02	<10	<10	9	<10	25
Q929915		40	<0.01	<10	<10	1	<10	31
Q929916		20	0.16	<10	<10	52	<10	55
Q929917		20	<0.01	<10	10	3	<10	41
Q929918		20	<0.01	<10	<10	2	<10	31
Q929919		<20	0.11	<10	<10	34	<10	61
Q929920		<20	0.15	<10	<10	75	<10	56
Q929921		<20	0.13	<10	<10	40	<10	36
Q929922		<20	0.17	<10	<10	49	<10	33
Q929923		<20	0.14	<10	<10	42	<10	40
Q929924		<20	0.24	<10	<10	181	<10	41
Q929925		<20	0.13	<10	<10	148	<10	54
Q929926		40	0.01	<10	<10	23	<10	132
Q929927		20	0.11	<10	<10	73	<10	8570
Q929928		<20	0.23	<10	<10	129	10	3690
Q929929		<20	0.12	<10	<10	15	<10	42
Q929930		20	<0.01	<10	<10	3	<10	36
Q929931		<20	<0.01	<10	<10	11	<10	26
Q929932		20	<0.01	<10	<10	2	<10	108



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
Q929933		0.62	<0.005	<0.2	1.35	<2	<10	260	3.4	<2	1.51	<0.5	12	6	2	3.46



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Sample Description	Method Analyte Units LOR	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
Q929933		10	1	1.02	20	1.00	696	1	0.12	6	1590	10	<0.01	<2	5	29



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
Q929933		<20	0.41	<10	<10	53	<10	253



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CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.		
	BAG-01	CRU-31	CRU-QC
	PUL-32	PUL-QC	SPL-21
			LOG-21
			WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-AA23	ME-ICP41	