



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 WH15113615

Project: SUM15-01

P.O. No.: SUM15-01_3

This report is for 30 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

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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 WH15113615

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
Q930009		0.87	0.038	<0.2	0.44	3	<10	20	0.5	<2	0.09	<0.5	<1	14	11	1.49
Q930010		1.17	0.013	<0.2	0.48	4	<10	40	0.5	<2	0.05	<0.5	<1	4	6	1.11
Q930011		1.01	<0.005	<0.2	0.35	6	<10	10	0.5	<2	0.03	<0.5	<1	3	6	0.79
Q930012		1.04	<0.005	<0.2	0.89	2	<10	150	<0.5	<2	0.23	<0.5	6	39	27	1.71
Q930013		0.86	<0.005	<0.2	0.64	<2	<10	10	1.4	<2	0.19	<0.5	<1	6	9	1.21
Q930014		0.82	<0.005	<0.2	2.23	3	<10	280	1.0	<2	0.22	<0.5	24	96	121	3.24
Q930015		1.29	<0.005	<0.2	0.37	<2	<10	<10	1.8	2	0.16	<0.5	1	4	5	1.23
Q930016		0.88	<0.005	0.9	2.87	6	<10	80	1.4	<2	1.52	<0.5	23	50	990	5.38
Q930017		1.39	<0.005	<0.2	3.15	3	<10	90	1.8	<2	1.87	<0.5	24	22	31	4.94
Q930018		1.16	<0.005	<0.2	1.12	3	<10	80	<0.5	<2	0.36	<0.5	3	4	6	2.62
Q930019		1.01	0.110	1.2	1.06	2	<10	30	<0.5	5	0.44	<0.5	12	17	683	6.67
Q930020		0.73	<0.005	<0.2	1.27	2	<10	70	1.8	<2	0.68	<0.5	6	9	19	3.14
Q929934		0.36	<0.005	<0.2	2.65	<2	<10	190	0.9	<2	1.89	<0.5	18	36	24	4.50
Q929935		0.61	<0.005	1.4	2.22	5	<10	220	1.0	<2	1.83	<0.5	21	92	506	4.32
Q929936		0.74	<0.005	<0.2	2.90	7	<10	200	1.1	<2	0.69	<0.5	7	90	109	4.78
Q929937		0.68	<0.005	<0.2	0.82	7	<10	100	0.7	<2	0.09	<0.5	2	4	13	2.39
Q929938		0.60	1.015	1.6	0.27	209	<10	250	<0.5	2	0.08	<0.5	1	10	16	1.35
Q929939		0.83	<0.005	<0.2	1.47	4	<10	20	0.7	<2	1.15	<0.5	4	12	25	0.50
Q929940		0.96	4.09	26.2	0.45	562	<10	40	<0.5	<2	0.03	<0.5	2	23	16	1.37
Q929941		0.54	0.009	1.6	0.67	6	<10	50	<0.5	2	0.26	<0.5	4	19	8	1.51
Q929942		0.47	0.005	<0.2	0.48	193	<10	50	<0.5	<2	0.75	<0.5	5	26	36	1.90
Q929943		0.87	<0.005	<0.2	0.26	4	<10	30	<0.5	<2	0.01	<0.5	1	11	6	1.00
Q929944		0.93	<0.005	<0.2	0.32	5	<10	20	<0.5	<2	0.02	<0.5	<1	8	7	0.85
Q929945		0.96	<0.005	<0.2	0.56	3	<10	20	0.6	<2	0.05	<0.5	<1	7	4	1.09
Q929946		0.51	<0.005	<0.2	0.77	<2	<10	30	0.5	<2	0.42	<0.5	<1	5	4	0.77
Q929947		0.86	0.029	0.3	0.49	98	<10	10	0.7	<2	0.06	<0.5	2	5	11	1.27
Q929948		0.98	<0.005	<0.2	0.95	3	<10	80	2.0	<2	0.92	<0.5	4	12	51	0.82
Q929949		0.94	<0.005	0.4	2.32	<2	<10	50	1.0	<2	2.01	<0.5	5	5	198	0.74
Q929950		0.72	1.245	11.6	0.26	1575	<10	320	<0.5	4	0.03	1.3	2	18	52	3.28
R203251		0.66	<0.005	0.2	0.92	6	<10	60	1.1	<2	1.21	2.1	7	24	134	2.10



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CERTIFICATE OF ANALYSIS WH15113615

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
Q930009		10	<1	0.16	40	0.01	229	1	0.08	2	20	3	<0.01	2	<1	4
Q930010		10	<1	0.14	10	0.02	210	1	0.05	<1	30	15	<0.01	<2	<1	4
Q930011		<10	<1	0.12	10	0.01	140	1	0.04	<1	20	12	<0.01	<2	<1	2
Q930012		<10	<1	0.43	10	0.70	203	51	0.05	22	240	2	<0.01	<2	6	11
Q930013		<10	<1	0.11	30	0.03	187	1	0.06	<1	10	8	<0.01	<2	<1	9
Q930014		10	<1	1.53	10	1.76	340	98	0.04	61	150	<2	0.12	<2	13	9
Q930015		<10	1	0.08	50	0.02	173	2	0.04	1	10	8	<0.01	<2	<1	8
Q930016		10	<1	0.16	10	0.56	146	6	0.19	64	740	<2	1.81	2	3	107
Q930017		10	1	0.06	40	2.71	534	<1	0.11	69	2490	2	<0.01	<2	4	124
Q930018		10	<1	0.26	20	0.27	512	1	0.08	1	570	3	0.04	2	2	30
Q930019		10	<1	0.03	<10	0.16	269	<1	0.12	25	170	2	2.94	<2	1	18
Q930020		10	1	0.22	40	0.58	448	1	0.15	2	850	12	<0.01	<2	6	71
Q929934		10	<1	0.11	50	1.87	488	<1	0.10	46	3100	5	<0.01	<2	5	104
Q929935		10	1	0.97	20	1.54	832	6	0.05	80	7820	2	0.58	<2	12	30
Q929936		10	1	1.28	20	1.26	967	4	0.04	21	3490	5	0.09	<2	11	20
Q929937		10	1	0.16	20	0.12	366	<1	0.07	2	240	14	<0.01	2	4	8
Q929938		<10	<1	0.29	20	0.04	110	6	0.01	4	1050	18	0.22	4	1	17
Q929939		<10	<1	0.05	<10	0.04	44	<1	0.18	17	340	3	0.09	4	<1	83
Q929940		<10	<1	0.21	10	0.18	124	5	0.01	3	340	10	0.06	5	2	9
Q929941		<10	<1	0.12	10	0.50	363	7	0.01	3	390	10	0.02	<2	2	12
Q929942		<10	<1	0.05	<10	0.33	442	1	0.01	11	170	3	0.07	3	2	12
Q929943		<10	<1	0.21	10	0.01	54	2	0.07	<1	20	12	0.11	<2	<1	3
Q929944		<10	1	0.19	10	0.01	44	3	0.07	1	20	8	0.05	<2	1	4
Q929945		<10	1	0.22	20	0.02	57	1	0.10	1	30	11	0.01	<2	1	6
Q929946		<10	1	0.29	20	0.02	117	<1	0.76	<1	20	14	<0.01	<2	<1	48
Q929947		<10	1	0.14	20	0.01	216	2	0.07	3	20	5	<0.01	3	<1	3
Q929948		<10	<1	0.07	<10	0.09	224	4	0.06	14	750	8	0.01	2	<1	50
Q929949		10	<1	0.03	10	0.17	230	2	0.15	14	650	<2	0.04	2	<1	137
Q929950		<10	<1	0.21	<10	0.02	128	61	0.01	5	360	2440	0.24	4	1	61
R203251		10	<1	0.13	30	0.59	495	<1	0.04	9	570	20	<0.01	<2	4	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 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
Q930009		<20	0.03	<10	<10	1	<10	121
Q930010		<20	0.01	<10	<10	2	<10	80
Q930011		<20	0.01	<10	<10	1	<10	70
Q930012		<20	0.14	<10	<10	76	<10	27
Q930013		<20	<0.01	<10	<10	1	<10	81
Q930014		<20	0.37	<10	<10	128	<10	58
Q930015		20	0.01	<10	<10	1	<10	65
Q930016		<20	0.11	<10	<10	83	<10	29
Q930017		<20	0.05	<10	<10	47	<10	80
Q930018		<20	0.08	<10	<10	5	<10	85
Q930019		<20	0.08	<10	<10	29	50	17
Q930020		<20	0.18	<10	<10	35	<10	108
Q929934		<20	0.11	<10	<10	50	<10	112
Q929935		<20	0.18	10	<10	202	<10	66
Q929936		<20	0.19	<10	<10	215	<10	114
Q929937		<20	0.01	<10	<10	8	<10	96
Q929938		<20	<0.01	<10	<10	23	<10	10
Q929939		<20	0.04	<10	<10	4	<10	13
Q929940		<20	0.03	<10	<10	16	<10	17
Q929941		<20	0.02	<10	<10	40	<10	26
Q929942		<20	0.01	<10	<10	39	<10	32
Q929943		<20	<0.01	<10	<10	1	<10	14
Q929944		<20	<0.01	<10	<10	1	<10	11
Q929945		<20	<0.01	<10	<10	1	<10	38
Q929946		<20	0.01	<10	<10	1	<10	57
Q929947		<20	0.01	<10	<10	1	<10	62
Q929948		<20	0.01	<10	<10	13	100	18
Q929949		<20	0.03	<10	<10	4	10	19
Q929950		<20	<0.01	<10	<10	24	<10	69
R203251		<20	0.01	<10	<10	33	<10	366



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CERTIFICATE OF ANALYSIS WH15113615

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	