



ALS Canada Ltd.

2103 Dollarton Hwy
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www.alsglobal.com/geochemistry

To: **ARCUS DEVELOPMENT GROUP**
510 WEST HASTINGS ST.
VANCOUVER BC V6B 1L8

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Plus Appendix Pages
Finalized Date: 17-OCT-2017
Account: DEVARC

CERTIFICATE WH17190001

Project: Dan Man

P.O. No.: 1006216-Batch 54

This report is for 36 Rock samples submitted to our lab in Whitehorse, YT, Canada on 6-SEP-2017.

The following have access to data associated with this certificate:

IAN TALBOT

WILLIAM WENGZYNOWSK

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
BAG-01	Bulk Master for Storage
LOG-23	Pulp Login - Rcvd with Barcode
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-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41a	High Grade Aqua Regia ICP-AES	ICP-AES

To: **ARCUS DEVELOPMENT GROUP**
ATTN: IAN TALBOT
510 WEST 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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CERTIFICATE OF ANALYSIS WH17190001

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-ICP41a Ag ppm	ME-ICP41a Al %	ME-ICP41a As ppm	ME-ICP41a Ba ppm	ME-ICP41a Be ppm	ME-ICP41a Bi ppm	ME-ICP41a Ca %	ME-ICP41a Cd ppm	ME-ICP41a Co ppm	ME-ICP41a Cr ppm	ME-ICP41a Cu ppm	ME-ICP41a Fe %	ME-ICP41a Ga ppm
		0.02	0.001	1	0.05	10	50	5	10	0.05	5	5	5	5	0.05	50
K294309		3.12	0.002	<1	0.59	<10	<50	<5	<10	<0.05	<5	<5	10	18	0.71	<50
K294310		2.94	<0.001	<1	0.57	30	<50	<5	<10	<0.05	<5	<5	11	6	1.11	<50
K294311		2.94	<0.001	<1	0.59	10	<50	<5	<10	<0.05	<5	<5	9	5	1.06	<50
K294312		2.98	0.008	<1	0.56	30	<50	<5	<10	<0.05	<5	<5	8	<5	0.77	<50
K294313		3.14	0.001	<1	0.51	20	<50	<5	<10	<0.05	<5	<5	9	5	0.69	<50
K294314		3.26	<0.001	1	0.45	10	<50	<5	<10	0.23	<5	<5	9	<5	0.80	<50
K294315		3.48	0.002	<1	0.37	10	<50	<5	<10	0.19	<5	<5	11	<5	0.83	<50
K294316		3.22	<0.001	1	0.40	10	<50	<5	<10	0.49	<5	<5	12	8	0.97	<50
K294317		3.20	<0.001	<1	0.42	10	<50	<5	<10	0.31	<5	<5	10	<5	0.74	<50
K294318		3.50	<0.001	<1	0.37	10	<50	<5	<10	0.40	<5	<5	8	6	0.58	<50
K294319		3.18	<0.001	<1	0.37	<10	<50	<5	<10	0.16	<5	<5	11	20	0.78	<50
K294320		3.10	<0.001	1	0.56	20	<50	<5	<10	0.06	<5	<5	9	<5	0.87	<50
K294321		3.18	<0.001	1	0.52	20	<50	<5	<10	<0.05	<5	<5	8	<5	0.66	<50
K294322		3.36	<0.001	1	0.53	30	<50	<5	<10	0.05	<5	<5	10	<5	1.07	<50
K294323		2.04	<0.001	<1	<0.05	<10	<50	<5	<10	21.2	<5	<5	<5	<5	0.46	<50
K294324		3.02	0.001	1	0.52	10	50	<5	<10	0.05	<5	<5	9	10	0.89	<50
K294325		3.50	<0.001	<1	0.40	<10	50	<5	<10	0.17	<5	<5	9	<5	0.96	<50
K294326		3.34	<0.001	1	0.38	20	<50	<5	<10	0.28	<5	<5	7	<5	0.61	<50
K294327		3.54	0.002	<1	0.55	20	80	<5	<10	1.53	<5	<5	8	5	0.76	<50
K294328		3.46	<0.001	<1	0.52	10	90	<5	<10	1.37	<5	<5	9	7	0.66	<50
K294329		3.30	<0.001	<1	0.44	10	<50	<5	<10	0.90	<5	<5	7	<5	0.52	<50
K294330		3.64	<0.001	<1	0.46	10	70	<5	<10	1.07	<5	<5	9	6	0.59	<50
K294331		3.58	<0.001	1	0.54	10	80	<5	<10	1.15	<5	<5	10	7	0.70	<50
K294332		2.80	0.002	<1	0.68	10	110	<5	<10	0.18	<5	<5	8	5	0.84	<50
K294333		3.20	<0.001	<1	0.53	10	50	<5	<10	0.33	<5	<5	10	<5	0.91	<50
K294334		3.24	<0.001	<1	0.46	10	50	<5	<10	1.24	<5	<5	9	7	0.64	<50
K294335		2.80	<0.001	<1	0.40	10	<50	<5	<10	1.20	<5	<5	8	<5	0.47	<50
K294336		3.52	<0.001	<1	0.47	<10	70	<5	<10	1.09	<5	<5	8	<5	0.76	<50
K294337		0.30	1.465	31	1.22	550	670	<5	<10	0.27	33	<5	13	141	5.62	<50
K294338		3.28	<0.001	<1	0.45	10	50	<5	<10	1.21	<5	<5	9	<5	0.61	<50
K294339		3.08	<0.001	<1	0.45	<10	60	<5	<10	0.97	<5	<5	9	5	0.50	<50
K294340		3.14	0.001	1	0.39	20	70	<5	<10	0.14	<5	<5	12	8	0.76	<50
K294341		3.56	<0.001	<1	0.44	10	50	<5	<10	1.01	<5	<5	11	<5	0.65	<50
K294342		3.34	<0.001	<1	0.42	10	<50	<5	<10	1.92	<5	<5	10	5	0.60	<50
K294343		3.46	<0.001	<1	0.40	<10	<50	<5	<10	0.87	<5	<5	9	<5	0.45	<50
K294344		3.34	<0.001	1	0.47	10	<50	<5	<10	1.52	<5	<5	9	<5	0.63	<50



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CERTIFICATE OF ANALYSIS WH17190001

Sample Description	Method Analyte Units LOR	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
		ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		5	0.05	50	0.05	30	5	0.05	5	50	10	0.05	10	5	5	100
K294309		<5	0.24	<50	<0.05	180	<5	<0.05	12	90	30	<0.05	<10	<5	<5	<100
K294310		<5	0.22	<50	0.05	170	<5	<0.05	5	120	10	<0.05	<10	<5	9	<100
K294311		<5	0.20	<50	0.06	150	<5	<0.05	<5	70	<10	<0.05	<10	<5	9	<100
K294312		<5	0.22	<50	<0.05	180	<5	<0.05	<5	80	<10	<0.05	<10	<5	<5	<100
K294313		<5	0.24	<50	<0.05	160	<5	<0.05	7	50	<10	<0.05	<10	<5	6	<100
K294314		<5	0.25	<50	0.06	160	<5	<0.05	<5	50	<10	<0.05	<10	<5	8	<100
K294315		<5	0.24	<50	<0.05	100	<5	0.07	<5	60	<10	<0.05	<10	<5	6	<100
K294316		<5	0.25	<50	0.05	160	5	0.05	6	140	<10	<0.05	<10	<5	12	<100
K294317		6	0.30	<50	<0.05	130	5	0.07	6	80	10	<0.05	<10	<5	11	<100
K294318		<5	0.29	<50	<0.05	120	<5	<0.05	<5	<50	<10	<0.05	10	<5	14	<100
K294319		<5	0.25	<50	<0.05	90	5	0.05	6	50	<10	<0.05	<10	<5	<5	<100
K294320		<5	0.26	<50	0.05	160	<5	<0.05	<5	110	<10	<0.05	<10	<5	8	<100
K294321		<5	0.20	<50	<0.05	130	<5	<0.05	5	60	<10	<0.05	<10	<5	9	<100
K294322		<5	0.20	<50	<0.05	280	<5	<0.05	7	100	<10	<0.05	<10	<5	8	<100
K294323		5	<0.05	<50	11.95	210	<5	<0.05	<5	160	<10	<0.05	<10	<5	26	<100
K294324		<5	0.20	<50	<0.05	150	<5	<0.05	7	80	<10	<0.05	<10	<5	9	<100
K294325		<5	0.25	<50	<0.05	240	<5	<0.05	7	90	<10	<0.05	<10	<5	10	<100
K294326		<5	0.28	<50	<0.05	130	<5	<0.05	6	50	10	<0.05	<10	<5	12	<100
K294327		<5	0.42	<50	<0.05	240	<5	<0.05	6	150	<10	<0.05	<10	<5	74	<100
K294328		<5	0.39	<50	<0.05	160	<5	<0.05	5	140	10	<0.05	<10	<5	54	<100
K294329		<5	0.37	<50	<0.05	140	<5	<0.05	<5	<50	<10	<0.05	<10	<5	25	<100
K294330		<5	0.38	<50	<0.05	150	<5	0.05	<5	60	<10	<0.05	<10	<5	51	<100
K294331		5	0.46	<50	<0.05	180	<5	0.06	<5	<50	<10	<0.05	10	<5	50	<100
K294332		<5	0.34	<50	0.05	350	<5	<0.05	5	80	30	<0.05	<10	<5	12	<100
K294333		<5	0.24	<50	<0.05	170	<5	0.06	<5	90	<10	<0.05	10	<5	20	<100
K294334		<5	0.30	<50	<0.05	150	<5	0.05	<5	<50	<10	<0.05	<10	<5	42	<100
K294335		<5	0.31	<50	<0.05	130	<5	0.05	<5	<50	<10	<0.05	<10	<5	41	<100
K294336		<5	0.38	<50	<0.05	190	<5	0.07	6	130	<10	<0.05	<10	<5	49	<100
K294337		<5	0.51	<50	0.10	1080	5	<0.05	8	1480	3610	0.44	30	5	169	<100
K294338		<5	0.33	<50	<0.05	140	<5	0.06	5	120	10	<0.05	<10	<5	42	<100
K294339		<5	0.37	<50	<0.05	110	<5	0.07	5	80	<10	<0.05	<10	<5	34	<100
K294340		<5	0.34	<50	<0.05	150	<5	0.06	<5	80	<10	<0.05	<10	<5	10	<100
K294341		<5	0.32	<50	<0.05	180	<5	0.07	9	100	<10	<0.05	<10	<5	39	<100
K294342		<5	0.39	<50	<0.05	180	<5	0.05	<5	60	<10	<0.05	<10	<5	75	<100
K294343		<5	0.38	<50	<0.05	120	<5	0.09	6	<50	<10	<0.05	<10	<5	37	<100
K294344		<5	0.44	<50	0.09	210	5	0.07	7	150	<10	<0.05	<10	<5	65	<100



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CERTIFICATE OF ANALYSIS WH17190001

Sample Description	Method Analyte Units LOR	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a
		Ti	Ti	U	V	W	Zn
		% 0.05	ppm 50	ppm 50	ppm 5	ppm 50	ppm 10
K294309		<0.05	<50	<50	<5	<50	10
K294310		<0.05	<50	<50	5	<50	20
K294311		<0.05	<50	<50	<5	<50	10
K294312		<0.05	<50	<50	<5	<50	10
K294313		<0.05	<50	<50	<5	<50	10
K294314		<0.05	<50	<50	<5	<50	10
K294315		<0.05	<50	<50	<5	<50	10
K294316		<0.05	<50	<50	<5	<50	10
K294317		<0.05	<50	<50	<5	<50	10
K294318		<0.05	<50	<50	<5	<50	10
K294319		<0.05	<50	<50	<5	<50	10
K294320		<0.05	<50	<50	<5	<50	10
K294321		<0.05	<50	<50	<5	<50	10
K294322		<0.05	<50	<50	<5	<50	20
K294323		<0.05	<50	<50	<5	<50	20
K294324		<0.05	<50	<50	<5	<50	20
K294325		<0.05	<50	<50	<5	<50	10
K294326		<0.05	<50	<50	<5	<50	10
K294327		<0.05	<50	<50	<5	<50	10
K294328		<0.05	<50	<50	<5	<50	<10
K294329		<0.05	<50	<50	<5	<50	10
K294330		<0.05	<50	<50	<5	<50	<10
K294331		<0.05	<50	<50	<5	<50	<10
K294332		<0.05	<50	<50	<5	<50	10
K294333		<0.05	<50	<50	7	<50	20
K294334		<0.05	<50	<50	<5	<50	10
K294335		<0.05	<50	<50	<5	<50	<10
K294336		<0.05	<50	<50	<5	<50	10
K294337		<0.05	<50	<50	60	<50	2430
K294338		<0.05	<50	<50	<5	<50	10
K294339		<0.05	<50	<50	<5	<50	10
K294340		<0.05	<50	<50	<5	<50	20
K294341		<0.05	<50	<50	<5	<50	10
K294342		<0.05	<50	<50	<5	<50	10
K294343		<0.05	<50	<50	<5	<50	10
K294344		<0.05	<50	<50	<5	<50	10



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CERTIFICATE OF ANALYSIS WH17190001

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21

BAG-01

CRU-31

CRU-QC

LOG-22

LOG-23

ME-ICP41a

PUL-32

PUL-QC

SPL-21

WEI-21