



ALS Canada Ltd.

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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: 21-OCT-2017
Account: DEVARC

CERTIFICATE WH17190000

Project: Dan Man

P.O. No.: 1006216-Batch 53

This report is for 36 Rock samples submitted to our lab in Whitehorse, YT, Canada on 5-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
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
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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 WH17190000

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	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
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.001	1	0.05	10	50	5	10	0.05	5	5	5	5	0.05	50
K294273		2.98	0.079	<1	0.54	200	<50	<5	<10	3.53	<5	<5	16	9	1.78	<50
K294274		3.74	<0.001	<1	0.42	180	<50	<5	<10	2.20	<5	<5	14	<5	1.15	<50
K294275		3.82	0.084	<1	0.38	80	<50	<5	<10	1.42	<5	<5	8	<5	0.83	<50
K294276		2.68	<0.001	<1	0.75	20	<50	<5	<10	2.05	<5	<5	26	5	2.04	<50
K294277		3.76	<0.001	<1	0.68	20	<50	<5	<10	1.62	<5	<5	13	<5	1.58	<50
K294278		3.04	0.007	<1	0.60	40	60	<5	<10	1.68	<5	<5	10	<5	1.45	<50
K294279		3.44	0.002	<1	0.56	20	50	<5	<10	1.31	<5	<5	9	<5	1.44	<50
K294280		3.06	<0.001	<1	0.48	20	160	<5	<10	0.76	<5	<5	15	<5	1.46	<50
K294281		3.42	<0.001	<1	0.58	20	<50	<5	<10	1.99	<5	<5	8	<5	1.12	<50
K294282		3.66	<0.001	<1	0.39	110	<50	<5	<10	1.37	<5	<5	12	<5	0.96	<50
K294283		3.68	<0.001	<1	0.47	<10	<50	<5	10	1.61	<5	<5	17	<5	1.24	<50
K294284		3.82	<0.001	<1	0.36	10	<50	<5	10	0.36	<5	<5	9	<5	0.74	<50
K294285		3.82	<0.001	<1	0.40	90	<50	<5	10	1.08	<5	<5	10	<5	0.77	<50
K294286		3.18	0.001	<1	2.52	20	70	<5	<10	3.58	<5	28	131	28	3.09	<50
K294287		3.54	<0.001	<1	1.55	<10	<50	<5	<10	3.97	<5	24	84	14	3.02	<50
K294288		2.00	0.001	<1	<0.05	<10	<50	<5	10	21.6	<5	<5	<5	<5	0.45	<50
K294289		3.22	<0.001	<1	2.79	<10	50	<5	<10	3.75	<5	26	121	<5	4.43	<50
K294290		2.98	0.001	<1	0.65	10	<50	<5	<10	1.05	<5	5	26	<5	1.41	<50
K294291		3.08	0.001	1	0.44	<10	<50	<5	<10	<0.05	<5	<5	12	<5	0.75	<50
K294292		2.44	<0.001	<1	0.48	<10	50	<5	<10	<0.05	<5	5	9	<5	0.71	<50
K294293		2.32	0.002	<1	1.34	10	130	5	<10	0.07	<5	19	117	7	3.58	<50
K294294		2.32	0.004	<1	1.42	10	150	5	10	0.08	<5	17	85	10	3.11	<50
K294295		2.78	<0.001	<1	0.43	<10	<50	<5	10	<0.05	<5	<5	7	18	0.48	<50
K294296		2.80	<0.001	<1	0.48	<10	<50	<5	<10	0.22	<5	<5	7	14	0.46	<50
K294297		2.66	<0.001	<1	1.11	<10	180	<5	<10	0.40	<5	18	54	20	2.54	<50
K294298		2.12	<0.001	<1	3.45	<10	280	<5	<10	0.42	<5	38	167	46	6.33	<50
K294299		2.48	<0.001	<1	2.55	10	190	5	10	0.22	<5	30	130	22	4.64	<50
K294300		2.60	0.015	<1	1.61	40	240	7	<10	0.08	<5	23	61	18	3.73	<50
K294301		2.84	<0.001	<1	0.62	<10	70	<5	10	<0.05	<5	5	9	5	0.66	<50
K294302		2.64	0.001	<1	0.71	<10	120	<5	<10	0.05	<5	5	6	9	1.20	<50
K294303		3.00	<0.001	<1	0.57	20	60	<5	<10	0.05	<5	<5	9	15	0.92	<50
K294304		0.32	1.175	<1	0.59	230	120	<5	10	19.10	<5	<5	27	86	2.63	<50
K294305		3.08	0.001	<1	0.49	<10	<50	<5	<10	0.06	<5	5	7	<5	0.65	<50
K294306		2.78	0.007	<1	0.64	<10	60	<5	<10	<0.05	<5	<5	5	11	0.58	<50
K294307		3.14	0.011	1	0.52	<10	50	<5	<10	<0.05	<5	<5	9	6	0.81	<50
K294308		3.00	0.003	<1	0.57	<10	50	<5	<10	<0.05	<5	<5	9	<5	0.68	<50



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		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
		ppm 5	% 0.05	ppm 50	% 0.05	ppm 30	ppm 5	% 0.05	ppm 5	ppm 50	ppm 10	% 0.05	ppm 10	ppm 5	ppm 5	ppm 100
K294273		<5	0.32	<50	0.20	400	<5	<0.05	<5	220	20	0.98	10	<5	69	<100
K294274		<5	0.28	<50	0.19	240	<5	<0.05	<5	110	<10	0.50	10	<5	34	<100
K294275		<5	0.26	<50	<0.05	160	<5	<0.05	<5	80	<10	0.32	<10	<5	41	<100
K294276		<5	0.44	<50	0.54	360	<5	<0.05	<5	380	<10	0.31	10	<5	32	<100
K294277		<5	0.38	<50	0.41	280	<5	0.05	<5	360	<10	0.23	<10	<5	24	<100
K294278		<5	0.34	<50	0.14	520	<5	<0.05	<5	420	<10	0.14	10	<5	19	<100
K294279		<5	0.31	<50	0.15	530	<5	<0.05	<5	390	<10	<0.05	10	<5	43	<100
K294280		<5	0.29	<50	0.13	820	<5	<0.05	<5	470	<10	<0.05	10	<5	14	<100
K294281		<5	0.39	<50	0.18	350	<5	<0.05	<5	310	<10	0.47	<10	<5	39	<100
K294282		<5	0.23	<50	0.12	140	<5	0.05	<5	50	<10	0.27	10	<5	82	<100
K294283		<5	0.22	<50	0.22	210	<5	0.05	<5	130	<10	0.11	<10	<5	31	<100
K294284		<5	0.24	<50	0.05	110	<5	<0.05	<5	70	<10	<0.05	<10	<5	<5	<100
K294285		<5	0.28	<50	0.09	120	<5	0.07	6	<50	<10	0.27	<10	<5	17	<100
K294286		<5	1.87	<50	2.46	660	<5	<0.05	78	490	<10	0.18	<10	5	104	<100
K294287		<5	1.06	<50	1.72	620	<5	<0.05	34	590	<10	0.23	<10	8	97	<100
K294288		<5	<0.05	<50	12.05	190	<5	<0.05	<5	190	<10	<0.05	<10	<5	43	<100
K294289		<5	2.25	<50	2.48	840	<5	<0.05	43	690	<10	0.11	<10	12	86	<100
K294290		<5	0.42	<50	0.36	280	<5	0.06	11	170	<10	0.07	10	<5	26	<100
K294291		<5	0.19	<50	<0.05	170	<5	<0.05	<5	60	<10	<0.05	<10	<5	5	<100
K294292		<5	0.23	<50	<0.05	210	<5	<0.05	<5	50	10	<0.05	<10	<5	<5	<100
K294293		<5	0.40	<50	0.30	690	<5	<0.05	26	120	30	<0.05	<10	18	15	<100
K294294		<5	0.61	<50	0.49	760	<5	<0.05	25	150	20	<0.05	<10	13	18	<100
K294295		<5	0.24	<50	<0.05	140	<5	<0.05	11	<50	10	<0.05	<10	<5	7	<100
K294296		<5	0.22	<50	<0.05	140	5	<0.05	<5	100	<10	<0.05	<10	<5	12	<100
K294297		<5	0.59	<50	0.44	740	<5	<0.05	27	420	20	<0.05	<10	7	18	<100
K294298		<5	2.14	<50	2.38	1470	<5	<0.05	84	1290	40	<0.05	<10	21	22	<100
K294299		<5	1.49	<50	1.50	1000	<5	<0.05	58	540	20	<0.05	<10	17	30	<100
K294300		<5	0.86	<50	0.67	1370	<5	<0.05	38	220	40	<0.05	<10	8	14	<100
K294301		6	0.24	<50	<0.05	260	<5	<0.05	<5	60	<10	<0.05	<10	<5	7	<100
K294302		<5	0.37	<50	0.10	360	<5	<0.05	<5	240	10	<0.05	<10	<5	23	<100
K294303		<5	0.26	<50	0.05	220	<5	<0.05	13	190	10	<0.05	<10	<5	12	<100
K294304		8	0.21	<50	3.35	1810	76	<0.05	76	1160	10	0.97	<10	<5	196	<100
K294305		<5	0.22	<50	<0.05	130	<5	<0.05	<5	90	10	<0.05	<10	<5	10	<100
K294306		8	0.29	<50	<0.05	160	<5	<0.05	<5	100	10	<0.05	<10	<5	13	<100
K294307		<5	0.21	<50	<0.05	240	<5	<0.05	<5	110	10	<0.05	<10	<5	9	<100
K294308		<5	0.24	<50	<0.05	240	<5	<0.05	<5	120	10	<0.05	<10	<5	10	<100



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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
K294273		<0.05	<50	<50	11	<50	120
K294274		<0.05	<50	<50	9	<50	10
K294275		<0.05	<50	<50	<5	<50	<10
K294276		0.05	<50	<50	27	<50	20
K294277		0.05	<50	<50	23	<50	10
K294278		<0.05	<50	<50	10	<50	10
K294279		<0.05	<50	<50	8	<50	10
K294280		<0.05	<50	<50	8	<50	10
K294281		<0.05	<50	<50	8	<50	10
K294282		<0.05	<50	<50	5	<50	10
K294283		<0.05	<50	<50	14	<50	40
K294284		<0.05	<50	<50	<5	<50	<10
K294285		<0.05	<50	<50	<5	<50	<10
K294286		0.30	<50	<50	62	<50	40
K294287		0.26	<50	<50	65	<50	30
K294288		<0.05	<50	<50	<5	<50	10
K294289		0.29	<50	<50	100	<50	60
K294290		<0.05	<50	<50	17	<50	10
K294291		<0.05	<50	<50	5	<50	<10
K294292		<0.05	<50	<50	<5	<50	10
K294293		<0.05	<50	<50	92	<50	100
K294294		<0.05	<50	<50	75	<50	80
K294295		<0.05	<50	<50	<5	<50	10
K294296		<0.05	<50	<50	<5	<50	10
K294297		0.05	<50	<50	39	<50	70
K294298		0.33	<50	<50	142	<50	150
K294299		0.18	<50	<50	90	<50	160
K294300		0.10	<50	<50	45	<50	160
K294301		<0.05	<50	<50	5	<50	10
K294302		<0.05	<50	<50	10	<50	30
K294303		<0.05	<50	<50	6	<50	20
K294304		<0.05	<50	<50	182	<50	460
K294305		<0.05	<50	<50	<5	<50	10
K294306		<0.05	<50	<50	<5	<50	20
K294307		<0.05	<50	<50	5	<50	20
K294308		<0.05	<50	<50	<5	<50	10



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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

LOG-22

LOG-23

ME-ICP41a

PUL-32

PUL-QC

SPL-21

WEI-21