



ALS Canada Ltd.

2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
www.alsglobal.com/geochemistry

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

Page: 1  
Total # Pages: 2 (A - C)  
Plus Appendix Pages  
Finalized Date: 17-OCT-2017  
Account: DEVARC

**CERTIFICATE WH17189985**

Project: Dan Man

P.O. No.: 1006216-Batch 50

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
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**  
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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 WH17189985**

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
K294165		3.70	<0.001	<1	0.78	<10	50	<5	10	1.30	<5	7	26	24	1.23	<50
K294166		3.60	<0.001	<1	0.47	10	<50	<5	10	1.24	<5	<5	18	6	0.93	<50
K294167		3.64	<0.001	<1	0.57	10	<50	<5	<10	0.84	<5	<5	19	7	1.06	<50
K294168		4.10	<0.001	<1	1.85	10	70	<5	10	2.18	<5	13	45	11	2.70	<50
K294169		3.22	<0.001	<1	0.70	10	70	<5	10	1.21	<5	<5	18	7	1.29	<50
K294170		3.56	<0.001	<1	0.63	<10	<50	<5	10	1.30	<5	<5	19	5	1.23	<50
K294171		3.30	<0.001	<1	0.39	<10	<50	<5	<10	1.30	<5	<5	17	6	0.90	<50
K294172		3.24	<0.001	<1	1.45	10	180	<5	10	1.91	<5	13	14	8	2.54	<50
K294173		0.32	1.140	2	0.62	250	110	<5	20	18.00	<5	<5	28	79	2.53	<50
K294174		3.36	<0.001	<1	0.59	<10	70	<5	10	1.26	<5	<5	13	9	0.99	<50
K294175		3.26	<0.001	<1	1.13	10	100	<5	10	1.38	<5	8	42	6	1.60	<50
K294176		3.32	<0.001	<1	0.80	<10	<50	<5	10	1.27	<5	<5	18	6	1.34	<50
K294177		2.86	<0.001	<1	0.57	<10	<50	<5	10	1.88	<5	<5	21	7	1.15	<50
K294178		3.40	<0.001	<1	1.10	<10	90	<5	10	1.36	<5	6	34	8	1.75	<50
K294179		2.60	<0.001	<1	1.92	10	310	<5	10	1.68	<5	14	51	11	3.20	<50
K294180		3.24	<0.001	<1	1.12	10	60	<5	10	1.40	<5	10	46	22	1.92	<50
K294181		2.76	<0.001	<1	1.79	10	<50	<5	10	2.42	<5	18	136	26	2.77	<50
K294182		2.60	0.001	<1	2.62	<10	110	<5	<10	2.69	<5	25	262	31	3.34	<50
K294183		3.30	<0.001	<1	1.39	<10	110	<5	<10	1.80	<5	10	60	19	2.13	<50
K294184		3.62	<0.001	<1	1.75	10	320	<5	10	1.71	<5	15	28	8	2.83	<50
K294185		2.96	<0.001	<1	2.78	10	710	<5	<10	3.64	<5	24	100	24	3.85	<50
K294186		2.82	<0.001	<1	1.78	10	250	<5	<10	2.59	<5	14	66	15	2.56	<50
K294187		3.08	<0.001	<1	0.46	10	<50	<5	10	0.43	<5	7	22	6	0.79	<50
K294188		3.04	<0.001	<1	1.50	10	140	<5	10	1.99	<5	14	74	15	1.94	<50
K294189		3.18	<0.001	<1	2.59	<10	630	<5	10	2.46	<5	27	136	22	3.69	<50
K294190		3.14	<0.001	<1	1.41	<10	290	<5	<10	1.14	<5	10	47	8	2.08	<50
K294191		3.28	<0.001	<1	2.49	10	730	<5	<10	1.85	<5	21	29	13	4.13	<50
K294192		3.02	<0.001	<1	0.97	<10	120	<5	10	0.75	<5	5	23	<5	1.34	<50
K294193		3.60	<0.001	<1	1.63	<10	310	<5	10	1.22	<5	14	54	17	2.38	<50
K294194		3.04	<0.001	<1	1.82	<10	420	<5	10	2.18	<5	19	134	16	2.59	<50
K294195		3.20	<0.001	<1	0.94	<10	150	<5	10	1.27	<5	7	29	5	1.28	<50
K294196		3.10	<0.001	<1	0.67	<10	100	<5	10	1.15	<5	6	17	9	1.01	<50
K294197		3.44	<0.001	<1	1.44	<10	130	<5	10	1.49	<5	10	83	8	1.86	<50
K294198		2.66	<0.001	<1	0.77	10	100	<5	10	1.15	<5	6	54	6	1.21	<50
K294199		2.48	<0.001	<1	0.47	10	<50	<5	10	0.51	<5	<5	21	8	0.68	<50
K294200		2.22	<0.001	<1	0.05	<10	<50	<5	20	22.3	<5	<5	<5	<5	0.47	<50



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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 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
K294165		<5	0.43	<50	0.40	240	<5	<0.05	21	220	10	<0.05	10	<5	23	<100
K294166		<5	0.23	<50	0.23	160	<5	0.07	11	210	10	<0.05	10	<5	16	<100
K294167		<5	0.21	<50	0.22	150	<5	0.07	8	190	10	<0.05	10	<5	15	<100
K294168		<5	0.56	<50	1.40	470	<5	0.05	25	580	<10	<0.05	<10	6	63	<100
K294169		<5	0.38	<50	0.40	200	5	0.07	11	330	10	<0.05	<10	<5	28	<100
K294170		<5	0.31	50	0.43	160	<5	0.09	11	270	<10	<0.05	<10	<5	29	<100
K294171		<5	0.19	<50	0.17	160	<5	0.09	11	230	<10	<0.05	<10	<5	14	<100
K294172		<5	0.91	<50	1.05	570	<5	0.07	8	750	10	0.45	10	<5	35	<100
K294173		<5	0.22	<50	3.15	1720	73	<0.05	83	1120	30	0.89	10	<5	194	<100
K294174		<5	0.36	<50	0.22	210	<5	0.07	11	290	10	0.07	<10	<5	20	<100
K294175		<5	0.77	<50	0.77	310	<5	0.07	25	510	10	0.05	<10	<5	27	<100
K294176		<5	0.29	<50	0.33	200	<5	0.05	6	280	<10	<0.05	10	<5	39	<100
K294177		<5	0.25	<50	0.31	200	6	0.07	10	250	10	<0.05	<10	<5	30	<100
K294178		<5	0.74	<50	0.72	320	<5	0.06	15	440	<10	0.06	<10	<5	21	<100
K294179		<5	1.21	<50	1.56	550	<5	0.07	23	1060	10	0.21	<10	<5	56	<100
K294180		<5	0.64	<50	0.81	330	<5	0.06	13	350	10	0.09	<10	<5	30	<100
K294181		<5	0.15	<50	1.86	470	<5	<0.05	82	580	10	0.05	<10	5	67	<100
K294182		<5	0.53	<50	2.78	690	<5	0.07	158	690	20	<0.05	<10	7	94	<100
K294183		<5	0.60	<50	1.09	370	<5	0.07	21	400	10	0.11	10	<5	60	<100
K294184		<5	1.11	<50	1.28	550	<5	0.07	13	710	10	0.18	<10	<5	52	<100
K294185		<5	2.02	<50	2.41	810	<5	0.06	37	710	<10	0.23	10	5	89	<100
K294186		<5	1.29	<50	1.47	510	<5	0.05	26	520	10	0.19	10	<5	45	<100
K294187		<5	0.27	<50	0.15	90	<5	0.08	9	100	<10	0.08	10	<5	17	<100
K294188		<5	1.20	<50	1.20	400	<5	0.05	28	390	10	0.11	10	<5	32	<100
K294189		<5	1.92	<50	2.26	710	<5	0.08	54	930	10	0.22	<10	5	49	<100
K294190		<5	0.98	<50	1.00	370	<5	0.08	20	410	<10	0.05	<10	<5	34	<100
K294191		<5	1.69	<50	1.83	740	<5	0.07	9	1020	<10	0.36	10	<5	60	<100
K294192		<5	0.69	<50	0.49	240	<5	0.07	9	290	<10	<0.05	10	<5	29	<100
K294193		<5	1.11	<50	1.21	380	<5	0.12	23	780	10	0.09	<10	<5	54	<100
K294194		<5	1.10	<50	1.74	460	<5	0.10	39	880	<10	0.09	<10	<5	50	<100
K294195		<5	0.55	<50	0.60	200	<5	0.11	9	380	<10	0.05	<10	<5	41	<100
K294196		<5	0.31	<50	0.30	190	<5	0.08	6	230	<10	<0.05	<10	<5	40	<100
K294197		<5	0.74	<50	1.15	360	5	0.08	24	410	10	<0.05	<10	<5	54	<100
K294198		<5	0.46	<50	0.51	240	6	0.08	14	170	10	<0.05	<10	<5	27	<100
K294199		<5	0.17	<50	0.11	110	6	0.12	<5	90	<10	<0.05	<10	<5	33	<100
K294200		<5	<0.05	<50	12.65	210	<5	<0.05	<5	280	10	<0.05	<10	<5	39	<100



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Page: 2 - C  
Total # Pages: 2 (A - C)  
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**CERTIFICATE OF ANALYSIS WH17189985**

Sample Description	Method Analyte Units LOR	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a
		Ti	Ti	U	V	W	Zn
		%	ppm	ppm	ppm	ppm	ppm
		0.05	50	50	5	50	10
K294165		<0.05	<50	<50	15	<50	20
K294166		<0.05	<50	<50	9	<50	10
K294167		<0.05	<50	<50	10	<50	10
K294168		0.13	<50	<50	53	<50	40
K294169		<0.05	<50	<50	11	<50	20
K294170		<0.05	<50	<50	13	<50	10
K294171		<0.05	<50	<50	7	<50	10
K294172		0.13	<50	<50	49	<50	50
K294173		<0.05	<50	<50	178	<50	430
K294174		<0.05	<50	<50	8	<50	20
K294175		0.09	<50	<50	20	<50	20
K294176		<0.05	<50	<50	13	<50	10
K294177		<0.05	<50	<50	12	<50	10
K294178		0.07	<50	<50	24	<50	20
K294179		0.26	<50	<50	58	<50	60
K294180		0.11	<50	<50	33	<50	30
K294181		0.08	<50	<50	44	<50	40
K294182		0.22	<50	<50	79	<50	40
K294183		0.18	<50	<50	42	<50	30
K294184		0.24	<50	<50	61	<50	50
K294185		0.38	<50	<50	97	<50	60
K294186		0.15	<50	<50	52	<50	30
K294187		<0.05	<50	<50	5	<50	<10
K294188		0.11	<50	<50	32	<50	30
K294189		0.37	<50	<50	80	<50	60
K294190		0.17	<50	<50	36	<50	30
K294191		0.35	<50	<50	94	<50	60
K294192		0.12	<50	<50	15	<50	20
K294193		0.29	<50	<50	43	<50	40
K294194		0.27	<50	<50	66	<50	40
K294195		0.13	<50	<50	23	<50	20
K294196		0.06	<50	<50	10	<50	10
K294197		0.17	<50	<50	33	<50	30
K294198		0.05	<50	<50	14	<50	10
K294199		<0.05	<50	<50	<5	<50	10
K294200		<0.05	<50	<50	<5	<50	20



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Page: Appendix 1  
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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

CRU-QC

LOG-22

LOG-23

ME-ICP41a

PUL-32

PUL-QC

SPL-21

WEI-21