



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**

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Plus Appendix Pages  
Finalized Date: 15-OCT-2017  
Account: DEVARC

**CERTIFICATE WH17190005**

Project: Dan Man

P.O. No.: 1006216-Batch 55

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
LOG-23	Pulp Login - Rcvd with Barcode
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-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 WH17190005**

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
K294345		3.46	<0.001	<1	1.00	10	60	<5	<10	2.04	<5	5	11	<5	1.54	<50
K294346		3.42	<0.001	1	0.75	10	60	<5	10	1.47	<5	<5	15	<5	1.15	<50
K294347		2.92	<0.001	1	0.51	<10	<50	<5	<10	0.05	<5	<5	11	5	0.63	<50
K294348		3.24	<0.001	1	0.43	<10	<50	<5	20	<0.05	<5	<5	10	<5	0.53	<50
K294349		3.26	<0.001	1	0.44	<10	<50	<5	<10	<0.05	<5	<5	12	6	0.57	<50
K294350		3.16	<0.001	1	0.36	10	<50	<5	10	0.11	<5	<5	10	5	0.51	<50
K294351		0.28	1.150	2	0.67	240	110	<5	30	18.20	<5	6	28	78	2.47	<50
K294352		3.64	<0.001	1	0.62	20	<50	<5	<10	0.63	<5	<5	10	<5	0.92	<50
K294353		3.52	<0.001	1	0.45	10	<50	<5	10	0.51	<5	<5	9	<5	0.44	<50
K294354		2.84	<0.001	2	0.62	20	<50	<5	<10	0.50	<5	<5	8	<5	0.40	<50
K294355		3.20	<0.001	<1	1.17	<10	110	<5	<10	2.46	<5	5	53	7	2.44	<50
K294356		3.14	<0.001	<1	1.14	<10	100	<5	<10	3.83	<5	11	126	15	2.09	<50
K294357		3.54	<0.001	<1	1.20	<10	130	<5	10	2.58	<5	8	36	10	2.15	<50
K294358		2.34	<0.001	<1	2.61	<10	240	<5	<10	6.09	<5	28	285	38	4.62	<50
K294359		2.82	<0.001	<1	0.46	<10	<50	<5	<10	0.66	<5	<5	18	6	0.79	<50
K294360		2.86	<0.001	<1	0.40	<10	<50	<5	10	0.36	<5	<5	14	7	0.69	<50
K294361		2.78	<0.001	<1	0.45	<10	50	<5	<10	1.22	<5	<5	11	6	0.69	<50
K294362		2.80	<0.001	<1	0.46	<10	<50	<5	<10	0.16	<5	<5	10	5	0.44	<50
K294363		2.96	<0.001	1	0.42	<10	<50	<5	10	0.40	<5	<5	8	<5	0.44	<50
K294364		2.54	<0.001	<1	0.68	<10	<50	<5	10	0.18	<5	<5	9	<5	0.52	<50
K294365		2.44	0.001	<1	1.78	<10	200	<5	10	0.67	<5	15	76	24	2.79	<50
K294366		2.34	<0.001	<1	0.66	<10	60	<5	<10	0.05	<5	<5	10	8	0.70	<50
K294367		2.12	0.002	<1	0.87	<10	100	<5	<10	0.07	<5	<5	15	22	0.94	<50
K294368		2.44	0.007	<1	0.76	20	60	<5	<10	<0.05	<5	<5	11	11	1.40	<50
K294369		2.26	<0.001	<1	0.79	<10	<50	<5	10	<0.05	<5	<5	9	9	0.63	<50
K294370		2.46	0.001	<1	1.56	10	120	<5	10	0.15	<5	17	56	12	3.13	<50
K294371		2.60	<0.001	<1	0.78	<10	60	<5	<10	<0.05	<5	<5	8	5	0.85	<50
K294372		2.62	0.002	<1	0.77	<10	<50	<5	<10	0.05	<5	5	19	9	1.38	<50
K294373		2.50	<0.001	<1	1.36	<10	150	<5	10	0.17	<5	12	68	15	2.77	<50
K294374		3.08	<0.001	<1	0.52	<10	80	<5	<10	<0.05	<5	<5	9	<5	0.92	<50
K294375		2.88	<0.001	<1	2.11	<10	130	<5	<10	2.35	<5	18	140	12	3.28	<50
K294376		2.74	<0.001	<1	1.79	<10	80	<5	<10	2.77	<5	16	80	29	2.69	<50
K294377		3.20	0.006	<1	0.90	<10	50	<5	<10	1.38	<5	7	45	15	1.68	<50
K294378		2.72	0.014	<1	1.03	20	60	<5	10	0.60	<5	7	20	10	1.68	<50
K294379		2.26	0.009	<1	0.99	40	50	<5	<10	0.10	<5	11	85	15	3.02	<50
K294380		2.38	<0.001	<1	<0.05	<10	<50	<5	10	21.4	<5	<5	<5	<5	0.47	<50



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**CERTIFICATE OF ANALYSIS WH17190005**

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
K294345		<5	0.84	<50	0.32	490	6	<0.05	<5	350	10	<0.05	<10	<5	89	<100
K294346		<5	0.54	<50	0.16	290	<5	<0.05	<5	200	10	<0.05	<10	<5	50	<100
K294347		<5	0.23	<50	<0.05	120	<5	0.07	<5	50	20	<0.05	<10	<5	13	<100
K294348		<5	0.24	<50	<0.05	100	<5	0.06	<5	<50	10	<0.05	<10	<5	12	<100
K294349		<5	0.24	<50	<0.05	130	<5	0.09	<5	<50	<10	<0.05	<10	<5	10	<100
K294350		<5	0.20	<50	<0.05	100	<5	0.07	<5	60	10	<0.05	<10	<5	13	<100
K294351		<5	0.23	<50	3.19	1730	71	<0.05	72	1080	10	0.84	<10	<5	183	<100
K294352		<5	0.23	<50	<0.05	110	<5	0.06	<5	<50	10	<0.05	<10	<5	19	<100
K294353		<5	0.24	<50	<0.05	120	<5	0.06	<5	<50	<10	<0.05	<10	<5	21	<100
K294354		<5	0.20	<50	<0.05	80	<5	0.05	<5	<50	10	<0.05	<10	<5	16	<100
K294355		<5	0.55	<50	0.47	480	<5	0.05	20	330	<10	<0.05	10	<5	108	<100
K294356		<5	0.57	<50	0.71	430	<5	<0.05	46	550	10	<0.05	<10	8	77	<100
K294357		<5	0.81	<50	0.99	440	<5	0.06	18	560	<10	0.06	<10	7	48	<100
K294358		<5	2.01	<50	2.82	980	<5	0.05	108	1360	10	0.06	<10	16	84	<100
K294359		<5	0.30	<50	0.13	210	<5	0.05	<5	120	<10	<0.05	<10	<5	18	<100
K294360		<5	0.24	<50	0.06	110	<5	0.07	<5	50	20	<0.05	10	<5	14	<100
K294361		<5	0.31	<50	0.07	240	<5	0.07	5	90	<10	<0.05	<10	<5	40	<100
K294362		<5	0.28	<50	<0.05	100	<5	0.08	<5	80	10	<0.05	<10	<5	8	<100
K294363		<5	0.28	<50	<0.05	120	<5	0.08	<5	<50	10	<0.05	<10	<5	13	<100
K294364		<5	0.31	<50	<0.05	90	<5	<0.05	<5	<50	<10	<0.05	10	<5	5	<100
K294365		<5	0.76	<50	1.08	1080	<5	<0.05	23	430	<10	<0.05	<10	9	24	<100
K294366		<5	0.28	50	0.05	50	<5	<0.05	<5	130	<10	<0.05	<10	<5	9	<100
K294367		<5	0.40	50	0.09	90	5	<0.05	5	170	20	<0.05	<10	<5	10	<100
K294368		<5	0.31	<50	<0.05	140	<5	<0.05	6	60	10	<0.05	10	<5	13	<100
K294369		<5	0.28	<50	<0.05	110	<5	<0.05	<5	<50	20	<0.05	10	<5	11	<100
K294370		<5	0.85	<50	0.57	620	<5	<0.05	25	420	20	<0.05	10	9	16	<100
K294371		<5	0.28	<50	<0.05	100	<5	<0.05	<5	60	10	<0.05	<10	<5	11	<100
K294372		<5	0.26	<50	0.05	130	<5	<0.05	10	90	10	0.09	<10	<5	8	<100
K294373		<5	0.60	<50	0.66	640	<5	0.05	36	350	10	0.11	<10	7	10	<100
K294374		<5	0.30	<50	<0.05	180	<5	0.09	<5	90	<10	0.07	<10	<5	10	<100
K294375		<5	1.49	<50	1.86	670	<5	0.05	77	720	10	0.05	<10	6	44	<100
K294376		<5	1.04	<50	1.21	420	<5	0.05	43	390	10	0.13	10	11	79	<100
K294377		<5	0.37	<50	0.37	270	<5	0.06	20	150	10	<0.05	<10	5	17	<100
K294378		<5	0.15	<50	0.07	770	<5	<0.05	12	80	<10	<0.05	<10	<5	20	<100
K294379		<5	0.23	<50	0.07	560	<5	<0.05	30	250	30	<0.05	<10	14	19	<100
K294380		<5	<0.05	<50	12.00	210	<5	<0.05	<5	210	<10	<0.05	<10	<5	26	<100



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**CERTIFICATE OF ANALYSIS WH17190005**

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
K294345		0.07	<50	<50	15	<50	20
K294346		<0.05	<50	<50	8	<50	20
K294347		<0.05	<50	<50	<5	<50	10
K294348		<0.05	<50	<50	<5	<50	10
K294349		<0.05	<50	<50	<5	<50	<10
K294350		<0.05	<50	<50	<5	<50	<10
K294351		<0.05	<50	<50	186	<50	430
K294352		<0.05	<50	<50	8	<50	10
K294353		<0.05	<50	<50	<5	<50	<10
K294354		<0.05	<50	<50	<5	<50	<10
K294355		<0.05	<50	<50	22	<50	<10
K294356		0.05	<50	<50	49	<50	20
K294357		0.09	<50	<50	48	<50	20
K294358		0.24	<50	<50	114	<50	70
K294359		<0.05	<50	<50	5	<50	<10
K294360		<0.05	<50	<50	<5	<50	40
K294361		<0.05	<50	<50	<5	<50	10
K294362		<0.05	<50	<50	<5	<50	<10
K294363		<0.05	<50	<50	<5	<50	<10
K294364		<0.05	<50	<50	<5	<50	<10
K294365		0.08	<50	<50	57	<50	30
K294366		<0.05	<50	<50	<5	<50	<10
K294367		<0.05	<50	<50	9	<50	10
K294368		<0.05	<50	<50	6	<50	20
K294369		<0.05	<50	<50	<5	<50	70
K294370		0.06	<50	<50	49	<50	60
K294371		<0.05	<50	<50	5	<50	10
K294372		<0.05	<50	<50	12	<50	20
K294373		<0.05	<50	<50	38	<50	30
K294374		<0.05	<50	<50	<5	<50	10
K294375		0.24	<50	<50	67	<50	40
K294376		0.07	<50	<50	59	<50	20
K294377		<0.05	<50	<50	33	<50	10
K294378		<0.05	<50	<50	20	<50	20
K294379		<0.05	<50	<50	43	<50	60
K294380		<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

CRU-QC

LOG-22

LOG-23

ME-ICP41a

PUL-32

PUL-QC

SPL-21

WEI-21