



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: 13-OCT-2017  
Account: DEVARC

**CERTIFICATE WH17189966**

Project: Dan Man

P.O. No.: 1006216-Batch 44

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**  
**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 WH17189966**

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
W637049		2.24	0.111	<1	1.27	140	100	<5	<10	5.62	<5	18	58	35	4.45	<50
W637050		2.34	0.001	<1	<0.05	<10	<50	<5	<10	21.1	<5	<5	<5	<5	0.49	<50
W637051		3.26	0.001	<1	0.74	<10	<50	<5	<10	1.61	<5	<5	9	6	1.03	<50
W637052		3.34	0.006	<1	0.48	<10	<50	<5	<10	1.18	<5	<5	15	5	1.11	<50
W637053		3.54	0.002	<1	0.77	<10	90	<5	10	1.67	<5	<5	12	<5	1.96	<50
W637054		3.14	0.004	<1	1.73	<10	100	<5	<10	4.42	<5	17	295	<5	3.27	<50
W637055		3.52	0.014	<1	0.40	<10	<50	<5	<10	1.32	<5	<5	9	<5	0.71	<50
W637056		3.48	0.001	<1	0.63	<10	<50	<5	<10	1.43	<5	<5	13	5	1.42	<50
W637057		2.68	0.006	<1	0.48	<10	<50	<5	10	0.84	<5	<5	16	7	1.12	<50
W637058		3.30	<0.001	<1	0.83	<10	<50	<5	10	1.75	<5	5	12	5	1.98	<50
W637059		3.54	0.008	<1	2.17	10	210	<5	10	6.10	<5	31	124	38	4.64	<50
W637060		3.24	<0.001	<1	0.55	<10	<50	<5	20	1.20	<5	<5	20	6	0.94	<50
W637061		3.32	<0.001	<1	0.36	<10	<50	<5	10	1.11	<5	<5	9	5	0.59	<50
W637062		3.16	<0.001	<1	0.34	<10	<50	<5	<10	1.70	<5	<5	16	5	0.70	<50
W637063		3.34	<0.001	<1	0.57	<10	<50	<5	<10	1.43	<5	<5	20	<5	1.45	<50
W637064		2.74	<0.001	<1	0.86	<10	90	<5	10	3.25	<5	7	25	<5	2.01	<50
W637065		3.14	<0.001	<1	0.64	<10	<50	<5	<10	2.83	<5	7	20	<5	2.21	<50
W637066		3.70	<0.001	<1	0.64	<10	<50	<5	<10	1.97	<5	<5	18	5	1.59	<50
W637067		3.34	<0.001	<1	0.61	<10	<50	<5	<10	2.21	<5	<5	16	5	1.42	<50
W637068		3.24	<0.001	<1	1.26	<10	90	<5	<10	6.88	<5	14	72	12	3.66	<50
W637069		3.44	<0.001	<1	1.54	10	180	<5	<10	2.71	<5	9	17	10	3.06	<50
W637070		3.42	<0.001	<1	0.49	<10	<50	<5	10	1.85	<5	<5	14	7	1.24	<50
W637071		3.78	<0.001	<1	0.52	<10	50	<5	<10	2.82	<5	<5	26	7	1.81	<50
W637072		3.56	0.004	<1	0.41	<10	90	<5	<10	1.33	<5	<5	15	<5	1.05	<50
W637073		3.42	0.001	<1	0.57	<10	<50	<5	<10	1.30	<5	<5	19	7	1.85	<50
W637074		3.48	<0.001	<1	0.75	<10	<50	<5	10	2.00	<5	<5	25	<5	1.78	<50
W637075		3.56	<0.001	<1	0.34	<10	<50	<5	10	1.46	<5	<5	21	<5	1.17	<50
W637076		0.32	1.210	1	0.57	220	110	<5	20	17.75	<5	5	26	81	2.51	<50
W637077		3.18	0.001	<1	0.62	<10	60	<5	<10	1.30	<5	8	16	11	1.68	<50
W637078		3.70	<0.001	<1	1.35	<10	270	<5	10	2.59	<5	13	47	17	2.61	<50
W637079		3.48	<0.001	<1	1.36	<10	150	<5	<10	2.35	<5	11	75	19	2.46	<50
W637080		3.78	<0.001	<1	1.06	<10	60	<5	10	2.46	<5	11	101	15	2.06	<50
W637081		3.78	<0.001	<1	0.28	<10	<50	<5	10	1.19	<5	<5	20	<5	1.06	<50
W637082		2.84	<0.001	<1	2.11	<10	360	<5	10	4.16	<5	20	98	5	4.79	<50
W637083		2.90	0.001	<1	1.56	<10	260	<5	<10	4.10	<5	14	139	13	2.97	<50
W637084		3.60	<0.001	<1	0.28	<10	<50	<5	10	0.46	<5	<5	18	<5	0.74	<50



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**CERTIFICATE OF ANALYSIS WH17189966**

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
W637049		<5	0.18	<50	0.46	750	<5	<0.05	29	460	10	<0.05	40	14	50	<100
W637050		<5	<0.05	<50	11.85	210	<5	<0.05	<5	170	<10	<0.05	10	<5	29	<100
W637051		<5	0.23	<50	0.11	160	5	<0.05	<5	120	10	<0.05	<10	<5	23	<100
W637052		<5	0.20	<50	0.08	160	<5	<0.05	5	80	<10	<0.05	<10	<5	7	<100
W637053		<5	0.46	<50	0.33	340	<5	0.05	<5	380	10	<0.05	<10	<5	21	<100
W637054		<5	1.31	<50	1.59	730	<5	0.05	81	600	<10	<0.05	<10	12	51	<100
W637055		<5	0.21	<50	0.15	150	<5	0.05	<5	100	<10	<0.05	<10	<5	18	<100
W637056		<5	0.37	<50	0.33	240	5	0.07	<5	250	10	<0.05	<10	<5	19	<100
W637057		<5	0.20	<50	0.19	160	7	0.06	<5	60	<10	<0.05	10	<5	28	<100
W637058		<5	0.51	<50	0.71	370	6	0.06	6	370	<10	<0.05	<10	<5	57	<100
W637059		<5	1.58	<50	2.87	970	<5	0.05	40	610	20	0.17	20	16	101	<100
W637060		<5	0.37	<50	0.22	210	6	0.06	6	90	<10	<0.05	10	<5	23	<100
W637061		<5	0.21	<50	0.13	140	<5	0.07	<5	<50	<10	<0.05	<10	<5	27	<100
W637062		<5	0.18	<50	0.06	170	9	0.09	<5	<50	<10	<0.05	<10	<5	31	<100
W637063		<5	0.34	<50	0.37	290	6	0.08	7	250	<10	<0.05	<10	<5	25	<100
W637064		<5	0.53	<50	0.85	440	6	0.06	10	350	10	<0.05	<10	<5	49	<100
W637065		<5	0.34	<50	0.41	420	10	0.06	9	510	10	<0.05	10	<5	63	<100
W637066		<5	0.39	<50	0.37	260	9	0.07	7	280	10	<0.05	<10	<5	61	<100
W637067		<5	0.40	<50	0.44	290	7	0.06	<5	310	10	<0.05	<10	<5	59	<100
W637068		<5	0.65	<50	2.15	800	7	0.05	27	440	10	<0.05	10	10	110	<100
W637069		<5	1.06	<50	1.19	610	7	0.06	5	530	<10	<0.05	10	7	50	<100
W637070		<5	0.24	<50	0.50	240	7	0.08	5	200	10	<0.05	<10	<5	36	<100
W637071		<5	0.23	<50	0.85	310	6	0.08	7	240	10	<0.05	10	<5	65	<100
W637072		<5	0.18	<50	0.08	390	<5	0.08	<5	200	<10	<0.05	<10	<5	23	<100
W637073		<5	0.19	<50	0.22	170	<5	0.06	<5	210	<10	<0.05	10	<5	31	<100
W637074		<5	0.27	<50	0.46	240	9	0.07	6	270	<10	<0.05	10	<5	46	<100
W637075		<5	0.12	<50	0.34	160	8	0.08	6	100	<10	<0.05	<10	<5	31	<100
W637076		8	0.20	<50	3.07	1660	72	<0.05	77	1070	30	0.89	10	<5	177	<100
W637077		<5	0.35	<50	0.48	230	5	0.06	5	450	10	0.06	<10	<5	28	<100
W637078		<5	0.66	<50	1.33	470	6	0.08	18	630	10	0.11	10	6	54	<100
W637079		<5	0.65	<50	1.22	410	<5	0.08	26	420	10	0.06	10	7	47	<100
W637080		<5	0.32	<50	1.13	360	5	0.05	49	330	<10	0.05	<10	6	49	<100
W637081		<5	0.11	<50	0.29	140	5	0.09	6	100	<10	0.05	<10	<5	26	<100
W637082		<5	1.22	<50	2.17	780	5	0.05	38	1080	10	0.09	10	16	76	<100
W637083		<5	1.02	<50	1.21	570	<5	<0.05	66	520	10	<0.05	<10	10	30	<100
W637084		<5	0.11	<50	0.05	80	5	0.09	6	<50	<10	<0.05	<10	<5	<5	<100



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**CERTIFICATE OF ANALYSIS WH17189966**

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
W637049		<0.05	<50	<50	58	<50	160
W637050		<0.05	<50	<50	<5	<50	<10
W637051		<0.05	<50	<50	10	<50	20
W637052		<0.05	<50	<50	6	<50	10
W637053		0.05	<50	<50	35	<50	30
W637054		0.13	<50	<50	77	<50	50
W637055		<0.05	<50	<50	<5	<50	10
W637056		<0.05	<50	<50	12	<50	40
W637057		<0.05	<50	<50	<5	<50	10
W637058		0.05	<50	<50	26	<50	30
W637059		0.15	<50	<50	103	<50	80
W637060		<0.05	<50	<50	7	<50	<10
W637061		<0.05	<50	<50	<5	<50	<10
W637062		<0.05	<50	<50	<5	<50	<10
W637063		<0.05	<50	<50	14	<50	10
W637064		<0.05	<50	<50	23	<50	30
W637065		<0.05	<50	<50	23	<50	20
W637066		<0.05	<50	<50	13	<50	10
W637067		<0.05	<50	<50	10	<50	20
W637068		0.05	<50	<50	63	<50	60
W637069		0.10	<50	<50	51	<50	40
W637070		<0.05	<50	<50	10	<50	20
W637071		<0.05	<50	<50	17	<50	40
W637072		<0.05	<50	<50	5	<50	<10
W637073		<0.05	<50	<50	13	<50	20
W637074		<0.05	<50	<50	17	<50	20
W637075		<0.05	<50	<50	6	<50	10
W637076		<0.05	<50	<50	171	<50	410
W637077		<0.05	<50	<50	22	<50	30
W637078		0.17	<50	<50	53	<50	40
W637079		0.13	<50	<50	47	<50	40
W637080		<0.05	<50	<50	40	<50	10
W637081		<0.05	<50	<50	6	<50	10
W637082		0.13	<50	<50	138	<50	100
W637083		0.09	<50	<50	65	<50	50
W637084		<0.05	<50	<50	<5	<50	<10



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**CERTIFICATE OF ANALYSIS WH17189966**

**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