



ALS Canada Ltd.

2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
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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: 18-OCT-2017  
Account: DEVARC

**CERTIFICATE WH17189306**

Project: Dan Man

P.O. No.: 1006216-Batch 37

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 WH17189306**

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
W636797		2.46	<0.001	<1	2.39	<10	780	<5	10	1.95	<5	20	51	24	4.78	<50
W636798		2.94	<0.001	<1	0.97	<10	140	<5	10	0.81	<5	8	11	7	3.38	<50
W636799		2.78	<0.001	<1	1.24	<10	100	<5	<10	1.18	<5	10	14	10	3.18	<50
W636800		2.90	0.003	<1	0.92	10	100	<5	10	1.07	<5	8	16	<5	3.98	<50
W636801		2.94	0.003	1	1.00	20	130	<5	<10	2.61	<5	11	18	<5	4.04	<50
W636802		2.72	<0.001	<1	0.71	<10	60	<5	<10	1.42	<5	7	15	<5	1.59	<50
W636803		3.12	<0.001	<1	0.42	<10	50	<5	10	0.75	<5	6	13	<5	0.96	<50
W636804		2.90	<0.001	<1	0.97	<10	50	<5	<10	0.95	<5	5	8	5	3.16	<50
W636805		2.82	<0.001	<1	1.61	<10	130	<5	<10	0.95	<5	12	45	7	3.30	<50
W636806		3.28	<0.001	<1	1.13	10	80	<5	<10	1.01	<5	8	39	6	3.20	<50
W636807		2.74	<0.001	<1	2.45	10	150	<5	<10	2.67	<5	18	55	12	4.71	<50
W636808		2.96	<0.001	<1	2.30	10	310	<5	<10	1.36	<5	18	104	9	4.34	<50
W636809		3.10	<0.001	<1	0.74	10	<50	<5	<10	0.41	<5	5	13	<5	2.88	<50
W636810		3.18	<0.001	<1	1.61	<10	210	<5	10	0.80	<5	11	24	<5	3.56	<50
W636811		2.42	0.001	<1	1.55	20	220	<5	10	0.57	<5	12	23	14	3.83	<50
W636812		2.30	0.002	<1	1.74	10	410	<5	<10	0.68	<5	17	32	12	4.24	<50
W636813		0.32	1.130	1	0.60	240	110	<5	20	17.65	<5	6	27	78	2.44	<50
W636814		2.54	0.001	<1	2.00	10	430	<5	<10	2.03	<5	18	26	12	4.71	<50
W636815		2.40	<0.001	<1	3.14	<10	550	<5	10	1.76	<5	21	33	6	5.87	<50
W636816		3.16	0.001	<1	1.48	<10	210	<5	<10	1.21	<5	12	25	8	2.73	<50
W636817		3.04	<0.001	<1	1.34	<10	140	<5	<10	1.28	<5	10	38	7	2.47	<50
W636818		3.40	0.001	<1	1.16	<10	70	<5	10	0.87	<5	6	29	9	2.06	<50
W636819		3.08	0.002	<1	1.22	<10	80	<5	<10	0.71	<5	7	49	14	2.46	<50
W636820		3.50	<0.001	<1	1.38	<10	110	<5	<10	1.02	<5	5	25	9	2.68	<50
W636821		3.46	0.002	<1	0.90	<10	<50	<5	<10	0.75	<5	5	21	5	1.91	<50
W636822		2.38	<0.001	<1	0.87	<10	<50	<5	10	0.46	<5	6	17	5	2.07	<50
W636823		3.18	<0.001	<1	0.72	<10	<50	<5	<10	0.69	<5	5	18	<5	2.06	<50
W636824		3.24	<0.001	<1	0.68	<10	<50	<5	<10	1.09	<5	6	14	5	1.62	<50
W636825		3.34	<0.001	<1	0.88	<10	60	<5	<10	1.48	<5	<5	15	<5	1.71	<50
W636826		3.14	<0.001	<1	0.57	<10	50	<5	<10	1.27	<5	6	18	<5	1.14	<50
W636827		2.88	<0.001	<1	0.80	10	60	<5	<10	3.16	<5	7	27	11	1.93	<50
W636828		2.30	<0.001	<1	<0.05	<10	<50	<5	10	20.6	<5	<5	<5	<5	0.45	<50
W636829		2.54	0.002	<1	1.92	10	160	<5	10	5.70	<5	25	110	43	4.20	<50
W636830		2.10	0.026	<1	0.98	20	100	<5	<10	1.28	<5	11	38	9	2.31	<50
W636831		2.76	0.003	<1	1.15	20	120	<5	<10	4.84	<5	16	30	12	2.65	<50
W636832		2.92	0.001	1	0.54	<10	90	<5	<10	1.82	<5	8	12	<5	1.03	<50



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**CERTIFICATE OF ANALYSIS WH17189306**

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
W636797		<5	1.36	<50	1.65	780	<5	0.08	27	1380	10	<0.05	10	11	48	<100
W636798		<5	0.35	<50	0.46	400	<5	0.09	8	570	<10	<0.05	20	10	20	<100
W636799		<5	0.28	<50	0.64	450	<5	0.09	12	660	<10	<0.05	10	10	42	<100
W636800		<5	0.26	<50	0.29	430	<5	0.05	7	600	<10	<0.05	30	15	20	<100
W636801		<5	0.29	<50	0.29	650	<5	<0.05	13	610	<10	<0.05	40	19	14	<100
W636802		<5	0.20	<50	0.17	250	<5	0.06	7	370	<10	<0.05	20	10	9	<100
W636803		<5	0.18	<50	0.08	140	<5	0.08	6	150	<10	<0.05	10	<5	12	<100
W636804		<5	0.16	<50	0.34	350	<5	0.07	<5	500	<10	<0.05	10	9	51	<100
W636805		<5	0.54	<50	1.04	510	<5	0.06	16	460	<10	<0.05	<10	10	47	<100
W636806		<5	0.27	<50	0.71	370	<5	0.07	16	560	<10	<0.05	<10	9	27	<100
W636807		<5	0.46	<50	1.72	840	<5	<0.05	17	1500	<10	<0.05	10	9	47	<100
W636808		<5	0.79	<50	1.79	890	<5	0.05	34	1220	<10	<0.05	10	11	38	<100
W636809		<5	0.12	<50	0.25	300	<5	0.07	<5	430	<10	<0.05	<10	9	26	<100
W636810		<5	0.74	<50	1.12	430	<5	0.08	8	880	<10	<0.05	10	8	36	<100
W636811		<5	0.63	<50	0.78	380	<5	0.06	9	950	<10	<0.05	30	12	24	<100
W636812		<5	0.91	<50	1.09	910	<5	<0.05	10	1060	<10	<0.05	30	11	24	<100
W636813		<5	0.21	<50	3.04	1680	69	<0.05	79	1100	20	0.85	20	<5	188	<100
W636814		<5	1.07	<50	1.26	710	<5	0.05	14	1350	<10	<0.05	20	10	31	<100
W636815		<5	1.80	<50	2.73	1250	<5	0.06	26	550	<10	<0.05	<10	11	42	<100
W636816		<5	0.56	<50	0.88	440	<5	0.09	9	890	<10	<0.05	10	6	66	<100
W636817		<5	0.36	<50	0.90	370	<5	0.12	8	620	<10	<0.05	10	7	55	<100
W636818		<5	0.21	<50	0.73	350	<5	0.11	8	470	<10	<0.05	<10	7	60	<100
W636819		<5	0.22	<50	0.87	490	<5	0.08	15	570	<10	<0.05	10	8	47	<100
W636820		<5	0.40	<50	0.94	440	<5	0.10	8	370	<10	<0.05	10	8	35	<100
W636821		<5	0.11	<50	0.50	270	<5	0.10	6	280	<10	<0.05	<10	6	31	<100
W636822		<5	0.16	<50	0.54	270	<5	0.09	<5	290	<10	<0.05	10	8	10	<100
W636823		<5	0.16	<50	0.34	210	<5	0.09	<5	230	<10	<0.05	10	6	21	<100
W636824		<5	0.09	<50	0.36	240	<5	0.08	<5	280	<10	<0.05	10	7	19	<100
W636825		<5	0.26	<50	0.41	230	<5	0.07	6	350	<10	<0.05	10	10	26	<100
W636826		<5	0.21	<50	0.22	170	<5	0.10	8	280	<10	<0.05	10	<5	13	<100
W636827		<5	0.23	<50	0.28	310	<5	0.05	15	300	<10	<0.05	10	9	15	<100
W636828		<5	<0.05	<50	11.70	190	<5	<0.05	10	170	10	<0.05	20	<5	42	<100
W636829		<5	0.55	<50	0.72	500	<5	<0.05	43	940	<10	<0.05	30	23	44	<100
W636830		<5	0.25	<50	0.39	550	<5	<0.05	21	390	<10	<0.05	40	7	18	<100
W636831		<5	0.25	<50	0.28	730	<5	<0.05	14	420	10	<0.05	30	8	67	<100
W636832		<5	0.25	<50	0.23	200	<5	<0.05	9	480	<10	<0.05	10	<5	18	<100



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**CERTIFICATE OF ANALYSIS WH17189306**

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
W636797		0.28	<50	<50	98	<50	70
W636798		0.09	<50	<50	17	<50	30
W636799		0.10	<50	<50	28	<50	30
W636800		<0.05	<50	<50	20	<50	20
W636801		<0.05	<50	<50	31	<50	30
W636802		<0.05	<50	<50	12	<50	10
W636803		<0.05	<50	<50	7	<50	10
W636804		0.05	<50	<50	6	<50	20
W636805		0.09	<50	<50	27	<50	40
W636806		0.07	<50	<50	20	<50	20
W636807		0.13	<50	<50	68	<50	60
W636808		0.14	<50	<50	61	<50	60
W636809		<0.05	<50	<50	6	<50	10
W636810		0.20	<50	<50	37	<50	40
W636811		0.12	<50	<50	50	<50	40
W636812		0.17	<50	<50	56	<50	50
W636813		<0.05	<50	<50	173	<50	420
W636814		0.20	<50	<50	71	<50	60
W636815		0.31	<50	<50	110	<50	80
W636816		0.21	<50	<50	42	<50	40
W636817		0.16	<50	<50	26	<50	20
W636818		0.14	<50	<50	17	<50	20
W636819		0.10	<50	<50	23	<50	20
W636820		0.10	<50	<50	30	<50	20
W636821		<0.05	<50	<50	17	<50	10
W636822		<0.05	<50	<50	17	<50	20
W636823		<0.05	<50	<50	13	<50	10
W636824		<0.05	<50	<50	14	<50	10
W636825		<0.05	<50	<50	22	<50	10
W636826		<0.05	<50	<50	13	<50	10
W636827		<0.05	<50	<50	29	<50	20
W636828		<0.05	<50	<50	<5	<50	20
W636829		<0.05	<50	<50	113	<50	60
W636830		<0.05	<50	<50	26	<50	30
W636831		<0.05	<50	<50	48	<50	40
W636832		<0.05	<50	<50	9	<50	10



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**CERTIFICATE OF ANALYSIS WH17189306**

**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