



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: 16-OCT-2017
Account: DEVARC

CERTIFICATE WH17186549

Project: Dan Man

P.O. No.: 1006216-Batch 34

This report is for 36 Rock samples submitted to our lab in Whitehorse, YT, Canada on 1-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 WH17186549

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
W636689		2.96	<0.001	<1	0.60	10	<50	<5	<10	1.70	<5	<5	10	7	1.24	<50
W636690		2.68	<0.001	<1	0.56	<10	<50	<5	<10	1.16	<5	<5	9	5	1.18	<50
W636691		2.04	0.002	<1	2.39	20	160	<5	10	0.90	<5	25	95	26	3.36	<50
W636692		2.12	<0.001	<1	1.56	10	140	<5	10	0.65	<5	22	66	20	2.94	<50
W636693		2.70	0.003	<1	0.45	30	120	<5	10	0.14	<5	6	18	13	2.19	<50
W636694		2.68	0.001	<1	0.55	20	70	<5	<10	0.16	<5	5	18	26	1.62	<50
W636695		3.14	0.001	<1	0.37	20	<50	<5	10	0.08	<5	<5	10	6	1.07	<50
W636696		2.72	0.002	<1	0.30	10	<50	<5	10	0.08	<5	<5	10	6	0.93	<50
W636697		2.82	0.005	<1	0.39	30	<50	<5	10	0.08	<5	<5	12	11	1.01	<50
W636698		2.46	0.001	<1	0.47	10	160	<5	10	0.09	<5	<5	11	19	1.01	<50
W636699		2.66	0.005	<1	0.48	10	80	<5	10	0.07	<5	<5	13	8	1.13	<50
W636700		2.84	<0.001	<1	0.56	30	80	<5	10	0.14	<5	7	15	10	1.59	<50
W636701		2.60	0.009	<1	0.40	<10	50	<5	<10	0.07	<5	<5	13	10	1.05	<50
W636702		2.32	0.003	<1	<0.05	10	<50	<5	10	21.2	<5	<5	<5	<5	0.49	<50
W636703		2.56	0.004	<1	0.64	20	90	<5	<10	0.17	<5	7	14	7	1.93	<50
W636704		2.28	0.008	<1	0.78	20	100	<5	10	0.17	<5	16	34	7	2.89	<50
W636705		2.50	0.002	1	1.60	10	110	<5	10	0.67	<5	14	58	15	2.80	<50
W636706		2.62	0.015	<1	0.55	10	60	<5	<10	0.19	<5	<5	10	5	1.54	<50
W636707		2.42	0.001	<1	0.63	10	60	<5	10	0.14	<5	<5	11	10	1.52	<50
W636708		2.96	<0.001	<1	0.39	10	<50	<5	<10	0.09	<5	<5	13	7	1.14	<50
W636709		2.70	0.001	<1	0.46	<10	<50	<5	<10	0.11	<5	<5	12	7	1.34	<50
W636710		3.18	<0.001	<1	0.61	10	<50	<5	<10	0.38	<5	<5	12	6	1.36	<50
W636711		3.02	<0.001	<1	0.48	10	<50	<5	<10	0.22	<5	<5	11	<5	1.28	<50
W636712		3.06	<0.001	<1	0.37	<10	<50	<5	<10	0.10	<5	5	12	<5	1.07	<50
W636713		3.08	0.003	<1	0.83	10	<50	<5	<10	0.11	<5	6	20	5	2.32	<50
W636714		3.14	<0.001	<1	0.74	10	<50	<5	<10	0.36	<5	<5	13	<5	1.62	<50
W636715		3.30	<0.001	<1	0.59	10	<50	<5	<10	0.28	<5	<5	14	5	1.41	<50
W636716		3.12	<0.001	<1	0.72	<10	<50	<5	10	0.20	<5	<5	15	6	1.67	<50
W636717		2.98	0.004	<1	1.45	30	70	<5	10	0.33	<5	9	36	13	3.02	<50
W636718		3.18	<0.001	<1	0.63	10	200	<5	<10	0.24	<5	<5	15	10	1.88	<50
W636719		2.96	0.002	<1	0.59	10	160	<5	10	0.11	<5	7	15	11	1.77	<50
W636720		0.28	1.125	<1	0.59	240	120	<5	20	18.55	<5	<5	27	80	2.54	<50
W636721		2.90	<0.001	<1	2.70	30	370	<5	10	0.75	<5	21	63	13	4.31	<50
W636722		3.34	<0.001	<1	0.88	10	160	<5	<10	0.51	<5	7	24	10	1.75	<50
W636723		3.20	<0.001	<1	0.87	10	90	<5	<10	0.18	<5	6	22	6	2.01	<50
W636724		3.12	<0.001	<1	0.70	20	260	<5	10	0.19	<5	<5	11	9	1.91	<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
W636689		<5	0.22	<50	0.33	190	<5	0.06	5	130	10	<0.05	<10	7	22	<100
W636690		<5	0.23	<50	0.27	170	<5	0.07	<5	110	<10	<0.05	10	6	19	<100
W636691		<5	1.13	<50	2.26	800	<5	<0.05	47	810	10	<0.05	10	7	31	<100
W636692		<5	0.69	<50	1.10	610	<5	<0.05	28	570	10	<0.05	20	8	22	<100
W636693		<5	0.20	50	0.13	600	<5	0.05	13	270	70	<0.05	10	<5	9	<100
W636694		<5	0.24	<50	0.18	280	<5	<0.05	9	280	20	<0.05	10	<5	9	<100
W636695		<5	0.15	<50	0.07	160	<5	0.10	<5	150	10	<0.05	<10	<5	8	<100
W636696		<5	0.14	<50	<0.05	180	<5	0.08	<5	150	10	<0.05	10	<5	10	<100
W636697		<5	0.15	<50	0.05	130	<5	0.08	6	120	10	<0.05	10	<5	9	<100
W636698		<5	0.19	<50	0.08	680	<5	<0.05	13	130	30	<0.05	20	<5	10	<100
W636699		<5	0.20	<50	0.06	310	<5	0.05	8	160	20	<0.05	10	<5	11	<100
W636700		<5	0.30	<50	0.16	330	<5	<0.05	13	380	10	<0.05	10	<5	11	<100
W636701		<5	0.21	<50	0.06	180	<5	0.08	<5	150	<10	<0.05	20	<5	8	<100
W636702		<5	<0.05	<50	12.05	240	<5	<0.05	<5	190	<10	<0.05	<10	<5	42	<100
W636703		<5	0.33	<50	0.12	390	<5	<0.05	10	330	20	<0.05	30	<5	12	<100
W636704		<5	0.33	<50	0.12	780	<5	<0.05	23	460	20	<0.05	20	5	13	<100
W636705		<5	0.33	<50	1.02	610	<5	0.05	17	510	50	<0.05	10	8	64	<100
W636706		<5	0.24	<50	0.14	370	<5	0.06	<5	260	20	<0.05	10	<5	15	<100
W636707		<5	0.30	<50	0.13	320	<5	0.06	5	300	10	<0.05	10	<5	11	<100
W636708		<5	0.17	<50	0.09	220	<5	0.07	6	140	10	<0.05	20	<5	9	<100
W636709		<5	0.17	<50	0.16	230	<5	0.10	6	180	<10	<0.05	10	<5	16	<100
W636710		<5	0.15	<50	0.17	230	<5	0.07	5	240	<10	<0.05	<10	<5	38	<100
W636711		<5	0.14	<50	0.12	170	<5	0.10	<5	160	10	<0.05	10	<5	24	<100
W636712		<5	0.12	<50	0.12	190	<5	0.09	<5	130	110	<0.05	10	<5	14	<100
W636713		<5	0.19	<50	0.37	350	<5	0.07	<5	210	210	<0.05	10	5	10	<100
W636714		<5	0.18	<50	0.28	240	<5	0.07	<5	250	60	<0.05	10	<5	42	<100
W636715		<5	0.13	<50	0.22	180	<5	0.11	<5	210	<10	<0.05	10	<5	35	<100
W636716		<5	0.14	<50	0.42	330	<5	0.06	<5	310	20	<0.05	10	<5	18	<100
W636717		<5	0.23	<50	1.00	630	<5	0.08	14	720	700	<0.05	10	6	17	<100
W636718		<5	0.15	<50	0.25	260	<5	0.08	<5	170	390	<0.05	20	<5	30	<100
W636719		<5	0.39	<50	0.15	350	<5	<0.05	5	330	340	0.05	10	<5	13	<100
W636720		<5	0.23	<50	3.25	1750	72	<0.05	84	1090	20	0.91	10	<5	196	<100
W636721		<5	1.68	<50	2.11	930	<5	<0.05	29	1510	20	<0.05	10	8	42	<100
W636722		<5	0.43	<50	0.52	250	<5	0.09	8	470	10	<0.05	10	<5	31	<100
W636723		<5	0.51	<50	0.39	310	<5	0.05	<5	360	<10	<0.05	10	5	17	<100
W636724		<5	0.28	<50	0.27	290	<5	0.11	<5	200	10	0.17	10	5	18	<100



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CERTIFICATE OF ANALYSIS WH17186549

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
W636689		<0.05	<50	<50	<5	<50	30
W636690		<0.05	<50	<50	<5	<50	10
W636691		0.32	<50	<50	75	<50	60
W636692		0.22	<50	<50	58	<50	50
W636693		<0.05	<50	<50	16	<50	50
W636694		<0.05	<50	<50	18	<50	40
W636695		<0.05	<50	<50	8	<50	20
W636696		<0.05	<50	<50	6	<50	20
W636697		<0.05	<50	<50	6	<50	20
W636698		<0.05	<50	<50	<5	<50	30
W636699		<0.05	<50	<50	7	<50	30
W636700		<0.05	<50	<50	11	<50	60
W636701		<0.05	<50	<50	5	<50	30
W636702		<0.05	<50	<50	<5	<50	20
W636703		<0.05	<50	<50	14	<50	70
W636704		<0.05	<50	<50	26	<50	220
W636705		0.11	<50	<50	43	<50	50
W636706		<0.05	<50	<50	7	<50	20
W636707		<0.05	<50	<50	9	<50	30
W636708		<0.05	<50	<50	<5	<50	20
W636709		<0.05	<50	<50	6	<50	20
W636710		<0.05	<50	<50	<5	<50	20
W636711		<0.05	<50	<50	<5	<50	30
W636712		<0.05	<50	<50	<5	<50	120
W636713		<0.05	<50	<50	8	<50	310
W636714		<0.05	<50	<50	7	<50	140
W636715		<0.05	<50	<50	8	<50	50
W636716		<0.05	<50	<50	13	<50	190
W636717		0.09	<50	<50	36	<50	570
W636718		<0.05	<50	<50	<5	<50	350
W636719		<0.05	<50	<50	8	<50	310
W636720		<0.05	<50	<50	185	<50	440
W636721		0.26	<50	<50	64	<50	210
W636722		0.09	<50	<50	21	<50	40
W636723		0.05	<50	<50	11	<50	40
W636724		0.05	<50	<50	5	<50	20



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CERTIFICATE OF ANALYSIS WH17186549

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