



ALS Canada Ltd.

2103 Dollarton Hwy
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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: 4-OCT-2017
Account: DEVARC

CERTIFICATE WH17186551

Project: Dan Man

P.O. No.: 1006216-Batch 35

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
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 WH17186551

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
W636725		3.34	0.001	<1	0.57	<10	<50	<5	10	0.19	<5	<5	13	18	1.28	<50
W636726		2.74	<0.001	<1	2.08	<10	110	<5	<10	0.65	<5	12	171	9	3.49	<50
W636727		2.98	<0.001	1	0.41	<10	60	<5	<10	0.08	<5	<5	11	7	1.05	<50
W636728		2.92	0.006	1	0.35	<10	460	<5	<10	<0.05	<5	<5	9	56	0.95	<50
W636729		3.30	<0.001	<1	0.33	<10	<50	<5	10	<0.05	<5	<5	10	12	0.72	<50
W636730		3.38	<0.001	1	0.24	<10	<50	<5	<10	<0.05	<5	<5	12	7	0.64	<50
W636731		0.32	1.415	33	1.16	500	650	<5	<10	0.26	31	5	14	139	5.38	<50
W636732		3.16	<0.001	1	0.38	<10	<50	<5	<10	0.07	<5	<5	12	9	0.90	<50
W636733		2.94	<0.001	<1	0.30	<10	50	<5	<10	0.07	<5	<5	11	7	0.71	<50
W636734		3.04	0.001	<1	1.07	<10	80	<5	<10	0.40	<5	6	24	12	2.09	<50
W636735		2.84	<0.001	<1	0.90	<10	70	<5	<10	0.54	<5	<5	12	9	1.94	<50
W636736		3.00	<0.001	1	2.05	<10	260	<5	<10	0.82	<5	13	39	9	3.82	<50
W636737		2.86	<0.001	<1	1.11	<10	130	<5	<10	0.40	<5	8	33	6	1.92	<50
W636738		3.32	<0.001	1	0.28	<10	<50	<5	<10	0.06	<5	<5	12	10	0.82	<50
W636739		2.62	<0.001	<1	3.53	<10	780	<5	<10	4.14	<5	27	44	18	5.20	<50
W636740		3.08	0.001	<1	1.84	<10	380	<5	<10	2.50	<5	11	46	15	2.97	<50
W636741		3.12	<0.001	1	0.26	<10	<50	<5	<10	0.31	<5	<5	14	5	0.64	<50
W636742		2.82	<0.001	<1	2.17	<10	290	<5	<10	2.87	<5	13	50	10	3.72	<50
W636743		2.80	0.001	<1	0.52	<10	<50	<5	<10	1.03	<5	5	16	15	1.21	<50
W636744		2.98	<0.001	<1	0.39	<10	50	<5	<10	0.97	<5	<5	13	<5	0.76	<50
W636745		2.96	<0.001	1	0.96	20	100	<5	<10	1.37	<5	<5	25	<5	1.57	<50
W636746		3.48	<0.001	<1	0.47	<10	<50	<5	<10	1.32	<5	<5	16	<5	0.96	<50
W636747		2.84	<0.001	1	0.41	10	<50	<5	<10	1.31	<5	<5	15	<5	0.81	<50
W636748		2.66	<0.001	<1	0.48	<10	50	<5	<10	1.48	<5	<5	17	7	1.07	<50
W636749		2.50	<0.001	<1	0.38	<10	<50	<5	<10	1.94	<5	<5	16	9	1.03	<50
W636750		2.48	<0.001	<1	0.52	<10	50	<5	<10	1.02	<5	<5	14	<5	0.97	<50
W636751		2.82	<0.001	<1	0.33	<10	<50	<5	<10	1.09	<5	<5	11	7	0.99	<50
W636752		2.56	<0.001	<1	0.73	<10	50	<5	<10	2.27	<5	6	8	<5	2.84	<50
W636753		3.00	<0.001	<1	1.26	<10	170	<5	<10	4.74	<5	16	27	<5	4.60	<50
W636754		2.60	<0.001	<1	1.45	<10	160	<5	<10	5.98	<5	21	50	<5	4.91	<50
W636755		2.54	0.134	<1	0.73	310	<50	<5	<10	2.50	<5	5	10	17	1.65	<50
W636756		2.60	<0.001	<1	0.53	20	<50	<5	<10	7.85	<5	<5	7	<5	1.22	<50
W636757		2.32	<0.001	<1	<0.05	<10	<50	<5	<10	20.9	<5	<5	<5	<5	0.47	<50
W636758		2.56	0.013	1	0.45	<10	<50	<5	<10	1.31	<5	<5	7	5	0.83	<50
W636759		2.36	<0.001	<1	0.51	<10	<50	<5	<10	0.92	<5	<5	10	<5	0.74	<50
W636760		2.64	<0.001	<1	0.37	10	<50	<5	<10	1.05	<5	<5	10	<5	0.52	<50



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Sample Description	Method Analyte Units LOR	ME-ICP41a Hg ppm 5	ME-ICP41a K % 0.05	ME-ICP41a La ppm 50	ME-ICP41a Mg % 0.05	ME-ICP41a Mn ppm 30	ME-ICP41a Mo ppm 5	ME-ICP41a Na % 0.05	ME-ICP41a Ni ppm 5	ME-ICP41a P ppm 50	ME-ICP41a Pb ppm 10	ME-ICP41a S % 0.05	ME-ICP41a Sb ppm 10	ME-ICP41a Sc ppm 5	ME-ICP41a Sr ppm 5	ME-ICP41a Th ppm 100
W636725		<5	0.27	<50	0.24	170	<5	0.08	9	180	20	<0.05	10	<5	15	<100
W636726		<5	1.36	<50	2.04	640	<5	<0.05	12	590	10	<0.05	10	8	20	<100
W636727		<5	0.25	<50	0.06	150	5	0.05	<5	180	10	<0.05	20	<5	11	<100
W636728		<5	0.21	<50	<0.05	110	9	<0.05	<5	140	970	0.06	10	<5	10	<100
W636729		<5	0.24	<50	<0.05	100	5	<0.05	5	120	590	<0.05	10	<5	11	<100
W636730		7	0.17	<50	<0.05	110	<5	<0.05	<5	100	60	<0.05	<10	<5	9	<100
W636731		<5	0.48	<50	0.09	1040	6	<0.05	7	1420	3330	0.42	40	<5	159	<100
W636732		<5	0.26	<50	0.09	150	<5	<0.05	6	190	20	<0.05	20	<5	13	<100
W636733		<5	0.20	<50	<0.05	150	<5	0.06	8	130	10	<0.05	<10	<5	9	<100
W636734		<5	0.46	<50	0.67	350	<5	0.06	13	470	10	<0.05	<10	<5	31	<100
W636735		<5	0.38	<50	0.60	250	<5	0.08	<5	240	20	<0.05	10	6	25	<100
W636736		<5	1.18	<50	1.66	570	<5	0.06	13	790	10	<0.05	<10	7	41	<100
W636737		<5	0.69	<50	0.79	340	<5	0.05	14	400	10	<0.05	<10	5	10	<100
W636738		<5	0.18	<50	<0.05	100	<5	0.05	<5	80	130	<0.05	10	<5	6	<100
W636739		<5	2.47	<50	2.91	1030	<5	<0.05	21	1250	40	0.07	30	11	60	<100
W636740		<5	1.35	<50	1.38	630	<5	<0.05	23	730	50	<0.05	10	6	43	<100
W636741		<5	0.09	<50	<0.05	70	<5	0.08	<5	50	10	<0.05	10	<5	16	<100
W636742		<5	1.64	<50	1.78	630	<5	<0.05	16	620	10	0.07	<10	12	44	<100
W636743		<5	0.33	<50	0.18	210	<5	<0.05	7	160	240	<0.05	10	<5	19	<100
W636744		<5	0.18	<50	0.06	130	<5	0.06	5	130	20	<0.05	10	<5	21	<100
W636745		<5	0.50	<50	0.45	310	<5	<0.05	7	640	10	<0.05	20	<5	30	<100
W636746		<5	0.22	<50	0.11	150	<5	0.05	<5	430	10	<0.05	10	<5	25	<100
W636747		<5	0.18	<50	0.09	130	<5	0.06	5	410	10	<0.05	<10	<5	23	<100
W636748		<5	0.17	<50	0.09	270	<5	0.06	7	430	10	<0.05	10	<5	23	<100
W636749		<5	0.15	<50	0.41	240	<5	0.07	7	400	20	<0.05	10	<5	26	<100
W636750		<5	0.17	<50	0.17	260	<5	0.05	6	370	10	<0.05	10	<5	28	<100
W636751		<5	0.12	<50	0.09	220	<5	0.06	8	230	10	<0.05	10	<5	17	<100
W636752		<5	0.21	<50	0.23	440	<5	0.05	5	280	10	<0.05	10	15	20	<100
W636753		<5	0.62	<50	1.73	900	<5	<0.05	20	600	20	0.16	20	19	77	<100
W636754		<5	0.53	<50	2.30	1040	<5	<0.05	26	980	20	0.16	20	22	96	<100
W636755		<5	0.16	<50	0.73	400	<5	<0.05	5	90	40	<0.05	10	<5	50	<100
W636756		<5	0.07	<50	3.52	350	<5	<0.05	6	200	10	<0.05	30	<5	27	<100
W636757		<5	<0.05	<50	11.80	230	<5	<0.05	<5	150	10	<0.05	30	<5	48	<100
W636758		<5	0.11	<50	0.10	210	<5	<0.05	<5	60	10	<0.05	<10	<5	15	<100
W636759		<5	0.10	<50	0.08	130	<5	<0.05	5	<50	10	<0.05	10	<5	11	<100
W636760		<5	0.09	<50	0.10	130	<5	<0.05	<5	<50	10	<0.05	20	<5	16	<100



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CERTIFICATE OF ANALYSIS WH17186551

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
W636725		0.05	<50	<50	<5	<50	10
W636726		0.19	<50	<50	68	<50	30
W636727		<0.05	<50	<50	<5	<50	30
W636728		<0.05	<50	<50	<5	<50	370
W636729		<0.05	<50	<50	<5	<50	320
W636730		<0.05	<50	<50	<5	<50	70
W636731		<0.05	<50	<50	57	<50	2310
W636732		<0.05	<50	<50	5	<50	30
W636733		<0.05	<50	<50	<5	<50	10
W636734		0.11	<50	<50	19	<50	30
W636735		0.10	<50	<50	22	<50	50
W636736		0.25	<50	<50	72	<50	40
W636737		0.08	<50	<50	22	<50	40
W636738		<0.05	<50	<50	<5	<50	10
W636739		0.33	<50	<50	139	<50	110
W636740		0.14	<50	<50	49	<50	90
W636741		<0.05	<50	<50	<5	<50	<10
W636742		0.15	<50	<50	63	<50	60
W636743		<0.05	<50	<50	12	<50	40
W636744		<0.05	<50	<50	<5	<50	10
W636745		<0.05	<50	<50	19	<50	20
W636746		<0.05	<50	<50	7	<50	20
W636747		<0.05	<50	<50	6	<50	<10
W636748		<0.05	<50	<50	9	<50	30
W636749		<0.05	<50	<50	7	<50	30
W636750		<0.05	<50	<50	<5	<50	40
W636751		<0.05	<50	<50	<5	<50	50
W636752		<0.05	<50	<50	81	<50	70
W636753		0.08	<50	<50	110	<50	110
W636754		0.06	<50	<50	132	<50	120
W636755		<0.05	<50	<50	17	<50	50
W636756		<0.05	<50	<50	5	<50	70
W636757		<0.05	<50	<50	<5	<50	20
W636758		<0.05	<50	<50	<5	<50	40
W636759		<0.05	<50	<50	<5	<50	10
W636760		<0.05	<50	<50	<5	<50	<10



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CERTIFICATE OF ANALYSIS WH17186551

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