



ALS Canada Ltd.

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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: 17-OCT-2017
Account: DEVARC

CERTIFICATE WH17186556

Project: Dan Man

P.O. No.: 1006216-Batch 36

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 WH17186556

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
W636761		2.86	<0.001	<1	0.37	10	<50	<5	<10	0.72	<5	<5	10	17	0.48	<50
W636762		2.90	<0.001	<1	0.61	10	50	<5	<10	1.53	<5	<5	36	11	1.49	<50
W636763		2.76	<0.001	<1	1.80	10	500	<5	<10	4.25	<5	16	128	30	3.78	<50
W636764		2.32	<0.001	<1	0.34	10	<50	<5	<10	1.46	<5	<5	13	<5	1.03	<50
W636765		2.08	0.002	<1	0.33	<10	<50	<5	<10	1.04	<5	<5	13	8	1.01	<50
W636766		2.12	<0.001	<1	0.21	10	<50	<5	<10	0.45	<5	<5	20	6	0.86	<50
W636767		2.36	<0.001	<1	0.31	<10	<50	<5	<10	0.62	<5	<5	12	5	0.59	<50
W636768		3.46	0.018	<1	0.38	<10	<50	<5	<10	0.38	<5	<5	8	7	0.82	<50
W636769		3.54	0.006	<1	0.32	10	<50	<5	<10	0.20	<5	<5	9	<5	0.60	<50
W636770		3.60	0.003	<1	0.30	<10	<50	<5	<10	0.35	<5	<5	11	13	0.52	<50
W636771		2.32	0.004	<1	<0.05	<10	<50	<5	<10	21.0	<5	<5	<5	<5	0.43	<50
W636772		3.14	0.006	<1	0.26	10	<50	<5	<10	0.38	<5	26	15	7	0.71	<50
W636773		2.26	0.002	<1	0.30	<10	<50	<5	<10	0.65	<5	<5	11	<5	0.65	<50
W636774		3.34	0.002	<1	0.27	10	<50	<5	<10	0.58	<5	<5	15	<5	0.79	<50
W636775		3.68	<0.001	<1	0.40	<10	<50	<5	<10	0.70	<5	<5	18	5	0.87	<50
W636776		2.36	0.004	<1	1.53	30	260	<5	<10	4.51	<5	11	33	8	3.60	<50
W636777		2.82	0.002	<1	0.95	20	90	<5	<10	1.38	<5	6	22	6	1.79	<50
W636778		2.92	0.001	<1	1.88	10	240	<5	<10	2.71	<5	10	64	13	3.01	<50
W636779		3.38	0.001	<1	0.52	30	<50	<5	<10	0.54	<5	<5	15	13	1.12	<50
W636780		3.30	<0.001	<1	1.01	30	110	<5	<10	1.44	<5	7	29	11	1.79	<50
W636781		2.94	0.001	<1	1.40	30	120	<5	<10	2.18	<5	10	62	11	2.35	<50
W636783		3.32	<0.001	<1	0.58	10	50	<5	<10	1.62	<5	<5	23	6	1.31	<50
W636786		3.40	<0.001	1	1.32	10	70	<5	<10	1.76	<5	7	12	10	2.71	<50
W636787		2.80	<0.001	<1	1.13	10	50	<5	<10	1.45	<5	6	10	7	2.56	<50
W636788		3.48	<0.001	<1	0.90	10	<50	<5	<10	1.50	<5	<5	23	6	2.28	<50
W636782		3.40	<0.001	<1	0.50	<10	<50	<5	<10	1.11	<5	<5	16	<5	0.96	<50
W636784		2.82	<0.001	<1	1.11	20	50	<5	<10	1.74	<5	<5	13	7	2.34	<50
W636785		2.94	<0.001	<1	1.45	20	60	<5	<10	2.02	<5	7	13	8	2.94	<50
W636789		3.10	0.001	<1	1.38	20	130	<5	<10	0.49	<5	11	18	24	2.92	<50
W636790		2.38	<0.001	<1	1.96	20	250	<5	<10	2.25	<5	13	74	12	3.46	<50
W636791		0.30	1.400	30	1.18	530	640	<5	<10	0.27	32	<5	13	139	5.39	<50
W636792		2.40	<0.001	<1	1.45	10	220	<5	<10	2.02	<5	11	32	39	3.02	<50
W636793		2.52	<0.001	<1	1.79	30	370	<5	<10	5.52	<5	21	138	24	4.29	<50
W636794		2.34	<0.001	<1	0.44	20	60	<5	<10	1.04	<5	<5	9	25	1.53	<50
W636795		1.90	<0.001	<1	1.51	20	270	<5	<10	2.41	<5	14	65	15	3.48	<50
W636796		2.42	<0.001	<1	2.62	<10	630	<5	<10	2.74	<5	15	68	16	3.98	<50



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CERTIFICATE OF ANALYSIS WH17186556

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
W636761		<5	0.10	<50	<0.05	90	<5	<0.05	7	<50	20	<0.05	<10	<5	<5	<100
W636762		<5	0.34	<50	0.47	280	<5	<0.05	14	110	10	<0.05	<10	<5	24	<100
W636763		<5	0.96	<50	1.49	800	<5	<0.05	48	500	20	0.05	10	15	144	<100
W636764		<5	0.12	<50	0.21	180	<5	<0.05	<5	60	10	<0.05	<10	<5	26	<100
W636765		<5	0.15	<50	0.14	150	5	<0.05	6	<50	10	<0.05	<10	<5	24	<100
W636766		<5	0.07	<50	<0.05	90	7	0.05	6	<50	<10	<0.05	<10	<5	6	<100
W636767		<5	0.13	<50	<0.05	90	<5	<0.05	5	<50	10	<0.05	10	<5	5	<100
W636768		<5	0.14	<50	0.06	160	<5	<0.05	6	<50	20	<0.05	10	<5	12	<100
W636769		<5	0.14	<50	<0.05	150	<5	<0.05	5	<50	<10	<0.05	<10	<5	5	<100
W636770		<5	0.13	<50	<0.05	90	<5	0.05	9	<50	60	<0.05	10	<5	<5	<100
W636771		<5	<0.05	<50	11.75	200	<5	<0.05	8	160	10	<0.05	<10	<5	20	<100
W636772		<5	0.10	<50	0.05	110	<5	0.05	<5	<50	10	<0.05	<10	<5	6	<100
W636773		<5	0.13	<50	<0.05	110	<5	0.06	5	<50	20	<0.05	10	<5	10	<100
W636774		<5	0.11	<50	<0.05	170	<5	0.05	7	<50	10	<0.05	<10	<5	14	<100
W636775		<5	0.17	<50	0.05	130	<5	0.18	<5	<50	20	0.08	<10	<5	12	<100
W636776		<5	0.77	<50	0.79	800	<5	0.09	10	580	30	0.08	<10	12	23	<100
W636777		<5	0.49	<50	0.48	340	<5	<0.05	9	200	10	<0.05	<10	<5	14	<100
W636778		<5	1.02	<50	1.43	620	<5	<0.05	26	720	10	<0.05	<10	8	39	<100
W636779		<5	0.12	50	0.19	170	<5	<0.05	8	80	10	<0.05	<10	<5	15	<100
W636780		<5	0.37	<50	0.58	450	<5	<0.05	13	370	20	<0.05	10	<5	29	<100
W636781		<5	0.57	<50	0.79	500	<5	<0.05	20	550	30	<0.05	10	8	40	<100
W636783		<5	0.24	<50	0.26	260	<5	<0.05	6	290	10	<0.05	<10	<5	20	<100
W636786		<5	0.41	<50	0.63	470	<5	<0.05	<5	220	20	0.12	10	12	36	<100
W636787		<5	0.40	<50	0.64	400	<5	<0.05	<5	200	<10	0.17	<10	10	25	<100
W636788		<5	0.24	<50	0.47	280	<5	<0.05	6	180	<10	<0.05	<10	7	24	<100
W636782		<5	0.21	<50	0.15	220	<5	<0.05	<5	360	20	<0.05	<10	<5	16	<100
W636784		<5	0.50	<50	0.58	390	<5	<0.05	<5	200	20	0.15	<10	11	30	<100
W636785		<5	0.52	<50	0.80	500	5	<0.05	<5	230	10	0.17	10	13	37	<100
W636789		<5	0.30	<50	0.69	440	<5	<0.05	8	600	10	<0.05	<10	8	17	<100
W636790		<5	0.68	<50	1.36	690	<5	<0.05	31	660	10	<0.05	<10	13	30	<100
W636791		8	0.50	<50	0.10	1060	<5	<0.05	8	1400	3400	0.44	20	<5	162	<100
W636792		<5	0.53	<50	0.87	520	<5	<0.05	16	630	20	<0.05	<10	10	26	<100
W636793		<5	0.93	<50	0.99	910	<5	<0.05	53	650	10	<0.05	30	18	15	<100
W636794		<5	0.10	<50	0.10	350	<5	0.05	7	120	10	<0.05	<10	7	<5	<100
W636795		<5	0.75	<50	0.85	760	<5	<0.05	45	470	<10	<0.05	<10	12	17	<100
W636796		<5	1.52	<50	1.83	660	<5	<0.05	28	850	20	<0.05	<10	15	38	<100



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CERTIFICATE OF ANALYSIS WH17186556

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
W636761		<0.05	<50	<50	<5	<50	10
W636762		<0.05	<50	<50	18	<50	50
W636763		0.09	<50	<50	84	<50	100
W636764		<0.05	<50	<50	5	<50	30
W636765		<0.05	<50	<50	<5	<50	20
W636766		<0.05	<50	<50	<5	<50	10
W636767		<0.05	<50	<50	<5	<50	<10
W636768		<0.05	<50	<50	<5	<50	30
W636769		<0.05	<50	<50	<5	<50	10
W636770		<0.05	<50	<50	<5	<50	20
W636771		<0.05	<50	<50	<5	<50	10
W636772		<0.05	<50	<50	<5	120	10
W636773		<0.05	<50	<50	<5	<50	10
W636774		<0.05	<50	<50	<5	<50	20
W636775		<0.05	<50	<50	5	<50	20
W636776		0.08	<50	<50	80	<50	80
W636777		0.05	<50	<50	25	<50	50
W636778		0.16	<50	<50	62	<50	60
W636779		<0.05	<50	<50	8	<50	10
W636780		0.06	<50	<50	31	<50	60
W636781		0.06	<50	<50	49	<50	140
W636783		<0.05	<50	<50	16	<50	50
W636786		0.05	<50	<50	59	<50	70
W636787		0.06	<50	<50	58	<50	50
W636788		<0.05	<50	<50	21	<50	20
W636782		<0.05	<50	<50	11	<50	50
W636784		0.06	<50	<50	63	<50	70
W636785		0.06	<50	<50	76	<50	80
W636789		0.11	<50	<50	55	<50	40
W636790		0.10	<50	<50	86	<50	40
W636791		<0.05	<50	<50	58	<50	2350
W636792		0.07	<50	<50	68	<50	30
W636793		0.10	<50	<50	109	<50	60
W636794		<0.05	<50	<50	16	<50	10
W636795		0.09	<50	<50	60	<50	40
W636796		0.21	<50	<50	89	<50	40



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CERTIFICATE OF ANALYSIS WH17186556

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