



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

Page: 1
Total # Pages: 2 (A - C)
Plus Appendix Pages
Finalized Date: 17-OCT-2017
Account: DEVARC

CERTIFICATE WH17189963

Project: Dan Man

P.O. No.: 1006216-Batch 43

This report is for 36 Rock samples submitted to our lab in Whitehorse, YT, Canada on 6-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
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 WH17189963

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
W637013		3.12	0.001	<1	1.91	20	380	<5	<10	2.64	<5	15	95	34	3.05	<50
W637014		3.10	<0.001	<1	1.77	10	300	<5	<10	2.02	<5	11	63	10	2.81	<50
W637015		2.80	0.034	<1	1.97	50	340	<5	<10	3.93	<5	20	118	17	3.85	<50
W637016		3.18	<0.001	<1	0.63	10	<50	<5	<10	1.63	<5	<5	13	<5	1.51	<50
W637017		3.10	<0.001	<1	0.80	20	<50	<5	<10	1.80	<5	<5	19	<5	1.83	<50
W637018		3.02	<0.001	<1	0.91	10	90	<5	<10	1.49	<5	<5	29	6	1.97	<50
W637019		2.80	<0.001	<1	1.19	10	200	<5	<10	1.63	<5	7	18	6	2.09	<50
W637020		3.06	0.001	<1	1.04	20	130	<5	<10	1.72	<5	5	17	<5	2.42	<50
W637021		3.50	<0.001	<1	1.84	20	130	<5	<10	3.69	<5	14	177	15	2.77	<50
W637022		3.26	<0.001	<1	1.06	<10	70	<5	<10	0.90	<5	<5	31	5	2.40	<50
W637023		0.32	1.350	28	1.17	510	640	<5	<10	0.26	32	<5	17	135	5.32	<50
W637024		2.90	<0.001	<1	0.45	10	<50	<5	<10	1.27	<5	<5	16	8	1.66	<50
W637025		3.28	<0.001	<1	0.92	<10	60	<5	<10	1.46	<5	<5	30	6	2.07	<50
W637026		3.32	<0.001	<1	0.84	10	<50	<5	<10	1.43	<5	<5	14	<5	2.30	<50
W637027		3.28	0.001	<1	1.76	10	70	<5	<10	3.77	<5	11	90	19	3.61	<50
W637028		3.72	<0.001	<1	1.16	20	110	<5	<10	1.67	<5	<5	22	<5	3.12	<50
W637029		3.46	<0.001	<1	0.75	20	<50	<5	<10	1.86	<5	<5	19	<5	2.92	<50
W637030		3.50	<0.001	<1	1.77	10	270	<5	<10	2.74	<5	10	33	9	4.24	<50
W637031		3.56	0.001	<1	2.23	<10	360	<5	<10	2.35	<5	17	142	23	3.81	<50
W637032		3.26	0.002	<1	2.85	30	440	<5	<10	3.84	<5	24	119	29	4.63	<50
W637033		2.94	<0.001	<1	3.33	<10	680	<5	<10	3.55	<5	22	217	27	4.78	<50
W637034		3.18	<0.001	<1	3.67	10	750	<5	<10	5.23	<5	23	158	17	5.59	<50
W637035		2.68	<0.001	<1	1.27	20	190	<5	<10	1.87	<5	11	14	7	2.36	<50
W637036		3.06	<0.001	<1	0.50	<10	70	<5	<10	1.05	<5	<5	13	<5	0.93	<50
W637037		3.58	<0.001	<1	0.43	<10	60	<5	<10	0.81	<5	<5	14	<5	0.76	<50
W637038		3.32	<0.001	<1	0.76	20	60	<5	<10	1.29	<5	<5	55	6	1.39	<50
W637039		3.90	<0.001	<1	0.61	10	<50	<5	<10	1.50	<5	<5	42	<5	1.24	<50
W637040		3.52	<0.001	<1	0.28	20	<50	<5	<10	0.43	<5	<5	16	5	0.89	<50
W637041		2.66	0.002	<1	2.06	50	90	<5	<10	2.41	<5	14	49	13	3.77	<50
W637042		3.52	<0.001	<1	1.52	10	150	<5	<10	3.44	<5	12	83	15	2.99	<50
W637043		2.66	0.027	<1	0.71	180	100	<5	<10	1.75	<5	<5	17	15	1.81	<50
W637044		2.58	0.030	<1	0.82	210	70	<5	<10	1.59	<5	5	17	6	1.69	<50
W637045		2.82	<0.001	<1	0.78	40	<50	<5	<10	0.68	<5	<5	7	<5	0.74	<50
W637046		2.92	<0.001	<1	1.05	60	80	<5	<10	0.97	<5	7	11	<5	1.77	<50
W637047		2.62	<0.001	<1	1.01	80	70	<5	<10	2.93	<5	5	18	<5	1.77	<50
W637048		2.30	0.003	<1	<0.05	<10	<50	<5	<10	21.2	<5	<5	<5	<5	0.46	<50



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Page: 2 - B
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CERTIFICATE OF ANALYSIS WH17189963

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	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		5	0.05	50	0.05	30	5	0.05	5	50	10	0.05	10	5	5	100
W637013		6	0.75	<50	1.39	600	<5	0.08	31	630	10	<0.05	<10	9	20	<100
W637014		<5	0.97	<50	1.06	640	<5	0.06	25	540	<10	<0.05	20	8	21	<100
W637015		<5	1.08	<50	1.14	820	<5	<0.05	38	930	30	<0.05	30	13	37	<100
W637016		6	0.22	<50	0.22	270	<5	0.05	8	230	<10	<0.05	10	8	6	<100
W637017		<5	0.23	<50	0.20	240	<5	<0.05	<5	270	20	<0.05	20	<5	24	<100
W637018		<5	0.42	<50	0.37	400	<5	<0.05	8	330	<10	<0.05	<10	5	15	<100
W637019		<5	0.68	<50	0.62	380	<5	<0.05	9	500	10	<0.05	<10	7	17	<100
W637020		6	0.41	<50	0.53	430	<5	<0.05	8	330	10	<0.05	10	12	50	<100
W637021		<5	0.52	<50	1.53	590	<5	<0.05	78	650	10	<0.05	<10	8	35	<100
W637022		<5	0.27	<50	0.58	320	<5	0.07	14	230	10	<0.05	<10	8	16	<100
W637023		10	0.50	<50	0.10	1050	6	<0.05	7	1420	3390	0.37	20	<5	159	<100
W637024		<5	0.12	<50	0.15	220	6	0.05	<5	120	10	<0.05	10	6	6	<100
W637025		<5	0.30	<50	0.53	350	<5	0.07	7	300	10	<0.05	<10	8	15	<100
W637026		<5	0.21	<50	0.38	280	6	0.06	<5	330	<10	<0.05	<10	10	14	<100
W637027		<5	0.29	<50	1.20	540	<5	0.06	36	600	10	<0.05	<10	12	42	<100
W637028		<5	0.48	<50	0.55	450	<5	<0.05	8	420	20	<0.05	<10	14	21	<100
W637029		<5	0.18	<50	0.27	390	<5	0.05	7	370	10	<0.05	<10	13	14	<100
W637030		<5	0.74	<50	1.21	640	<5	0.05	13	870	20	<0.05	<10	15	34	<100
W637031		<5	1.12	<50	1.92	740	<5	<0.05	60	760	<10	<0.05	<10	13	26	<100
W637032		<5	1.03	<50	2.43	910	<5	<0.05	51	1320	20	<0.05	<10	13	54	<100
W637033		<5	2.03	<50	2.94	930	<5	<0.05	100	1340	10	<0.05	<10	12	31	<100
W637034		<5	2.62	<50	2.92	1030	<5	<0.05	85	1820	<10	<0.05	10	17	40	<100
W637035		<5	0.96	<50	0.60	510	<5	<0.05	8	590	10	<0.05	<10	<5	25	<100
W637036		<5	0.30	<50	0.08	210	<5	<0.05	6	80	20	<0.05	10	<5	12	<100
W637037		<5	0.25	<50	0.05	100	<5	0.05	<5	100	10	<0.05	<10	<5	20	<100
W637038		<5	0.51	<50	0.38	280	<5	<0.05	23	200	20	<0.05	<10	<5	16	<100
W637039		<5	0.36	<50	0.28	230	<5	0.05	12	130	10	<0.05	<10	<5	25	<100
W637040		<5	0.20	<50	<0.05	120	<5	0.05	<5	<50	<10	<0.05	<10	<5	<5	<100
W637041		<5	1.11	<50	1.33	690	<5	<0.05	15	890	20	<0.05	10	11	60	<100
W637042		6	1.13	<50	1.21	610	5	<0.05	19	320	20	<0.05	<10	9	46	<100
W637043		<5	0.31	<50	0.14	520	5	<0.05	11	250	10	<0.05	<10	<5	15	<100
W637044		<5	0.25	<50	0.14	500	<5	<0.05	14	220	160	<0.05	10	<5	49	<100
W637045		<5	0.18	<50	0.09	180	<5	<0.05	<5	<50	10	<0.05	<10	<5	12	<100
W637046		<5	0.30	<50	0.35	390	<5	<0.05	8	410	20	<0.05	10	5	48	<100
W637047		<5	0.22	<50	0.22	400	<5	<0.05	9	180	20	<0.05	10	<5	99	<100
W637048		5	<0.05	<50	11.75	210	<5	<0.05	<5	130	<10	<0.05	<10	<5	26	<100



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Page: 2 - C
Total # Pages: 2 (A - C)
Plus Appendix Pages
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CERTIFICATE OF ANALYSIS WH17189963

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
W637013		0.17	<50	<50	68	<50	40
W637014		0.14	<50	<50	49	<50	40
W637015		0.10	<50	<50	87	<50	170
W637016		<0.05	<50	<50	18	<50	20
W637017		<0.05	<50	<50	24	<50	10
W637018		<0.05	<50	<50	31	<50	20
W637019		0.07	<50	<50	39	<50	30
W637020		<0.05	<50	<50	55	<50	20
W637021		0.10	<50	<50	48	<50	40
W637022		0.05	<50	<50	25	<50	20
W637023		<0.05	<50	<50	58	<50	2320
W637024		<0.05	<50	<50	13	<50	10
W637025		0.05	<50	<50	23	<50	20
W637026		<0.05	<50	<50	17	<50	20
W637027		0.05	<50	<50	57	<50	40
W637028		0.07	<50	<50	10	<50	20
W637029		<0.05	<50	<50	7	<50	20
W637030		0.12	<50	<50	52	<50	40
W637031		0.17	<50	<50	65	<50	40
W637032		0.19	<50	<50	101	<50	60
W637033		0.29	<50	<50	111	<50	70
W637034		0.34	<50	<50	131	<50	80
W637035		0.10	<50	<50	30	<50	40
W637036		<0.05	<50	<50	<5	<50	20
W637037		<0.05	<50	<50	<5	<50	10
W637038		<0.05	<50	<50	15	<50	20
W637039		<0.05	<50	<50	11	<50	20
W637040		<0.05	<50	<50	6	<50	10
W637041		0.12	<50	<50	81	<50	70
W637042		0.11	<50	<50	67	<50	40
W637043		<0.05	<50	<50	16	<50	40
W637044		<0.05	<50	<50	16	<50	40
W637045		<0.05	<50	<50	6	<50	20
W637046		<0.05	<50	<50	24	<50	50
W637047		<0.05	<50	<50	17	<50	60
W637048		<0.05	<50	<50	<5	<50	10



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Page: Appendix 1
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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