



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: 10-OCT-2017
Account: DEVARC

CERTIFICATE WH17183029

Project: Dan Man

P.O. No.: 1006216-Batch 3

This report is for 36 Rock samples submitted to our lab in Whitehorse, YT, Canada on 29-AUG-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 WH17183029

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
W590073		2.58	<0.001	<1	1.22	<10	50	<5	<10	0.48	<5	10	22	10	2.57	<50
W590074		1.76	<0.001	<1	1.68	<10	80	<5	<10	1.14	<5	13	22	12	2.88	<50
W590075		2.66	<0.001	<1	1.90	<10	150	<5	<10	1.49	<5	20	56	18	2.88	<50
W590076		2.30	<0.001	<1	2.74	<10	90	<5	<10	2.79	<5	19	332	7	3.38	<50
W590077		2.80	<0.001	<1	2.18	<10	160	<5	<10	2.14	<5	20	39	8	3.41	<50
W590078		2.90	<0.001	<1	0.92	<10	50	<5	<10	1.70	<5	<5	31	6	1.59	<50
W590079		2.20	<0.001	<1	0.05	<10	<50	<5	10	20.6	<5	<5	<5	<5	0.44	<50
W590080		2.76	<0.001	<1	0.38	<10	<50	<5	10	0.40	<5	<5	13	<5	0.76	<50
W590081		2.32	<0.001	<1	0.98	10	80	<5	<10	0.21	<5	9	31	10	1.99	<50
W590082		2.80	<0.001	<1	0.40	20	<50	<5	<10	0.15	<5	<5	13	<5	1.02	<50
W590083		2.18	<0.001	<1	0.35	<10	<50	<5	<10	<0.05	<5	<5	16	<5	0.79	<50
W590084		2.86	<0.001	1	1.71	<10	80	<5	<10	1.77	<5	13	46	15	3.15	<50
W590085		2.30	<0.001	<1	0.67	<10	<50	<5	<10	0.50	<5	<5	17	<5	1.31	<50
W590086		2.78	<0.001	1	0.36	<10	<50	<5	<10	0.05	<5	<5	10	<5	0.66	<50
W590087		2.24	0.001	1	0.78	20	<50	<5	<10	0.29	<5	6	17	<5	2.35	<50
W590088		2.36	<0.001	<1	2.29	20	160	<5	10	0.39	<5	27	60	8	5.43	<50
W590089		2.22	<0.001	<1	0.59	<10	<50	<5	<10	1.46	<5	<5	18	5	1.32	<50
W590090		2.40	<0.001	<1	0.31	<10	<50	<5	<10	<0.05	<5	<5	13	<5	0.63	<50
W590091		2.70	0.011	<1	0.48	<10	<50	<5	<10	0.07	<5	<5	10	<5	0.73	<50
W590092		2.42	<0.001	1	0.36	<10	<50	<5	<10	0.07	<5	<5	10	5	1.48	<50
W590093		0.32	1.170	1	0.65	240	110	<5	10	17.95	<5	<5	29	78	2.45	<50
W590094		2.32	<0.001	<1	0.29	<10	<50	<5	<10	0.41	<5	<5	14	<5	0.85	<50
W590095		2.74	<0.001	<1	2.83	10	300	<5	<10	2.80	<5	25	80	21	3.94	<50
W590096		2.56	<0.001	<1	2.20	<10	570	<5	<10	2.83	<5	21	81	22	3.54	<50
W590097		3.00	<0.001	<1	0.30	<10	<50	<5	<10	0.32	<5	<5	14	<5	0.67	<50
W590098		2.78	<0.001	<1	1.53	<10	80	<5	<10	3.07	<5	16	127	13	3.04	<50
W590099		2.82	<0.001	<1	1.80	<10	<50	<5	<10	2.18	<5	23	119	27	2.51	<50
W590100		3.04	<0.001	<1	0.82	10	<50	<5	<10	1.31	<5	8	31	17	1.60	<50
W590101		2.68	<0.001	<1	0.49	<10	<50	<5	<10	0.81	<5	<5	18	<5	1.21	<50
W590102		2.38	<0.001	<1	1.01	10	70	<5	<10	1.04	<5	9	19	<5	2.15	<50
W590103		2.18	<0.001	<1	1.37	<10	60	<5	<10	1.97	<5	17	21	<5	2.43	<50
W590104		1.80	<0.001	<1	0.33	10	<50	<5	<10	0.60	<5	<5	19	<5	0.75	<50
W590105		1.42	<0.001	<1	0.31	<10	<50	<5	<10	1.03	<5	<5	23	<5	1.01	<50
W590106		2.90	<0.001	<1	1.06	10	100	<5	<10	0.32	<5	10	52	<5	2.17	<50
W590107		2.06	<0.001	<1	1.07	<10	100	<5	<10	0.22	<5	13	44	<5	2.20	<50
W590108		3.00	<0.001	<1	0.44	10	50	<5	<10	0.05	<5	6	10	<5	0.95	<50



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CERTIFICATE OF ANALYSIS WH17183029

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
W590073		<5	0.67	<50	0.74	580	<5	<0.05	12	710	10	<0.05	10	5	39	<100
W590074		<5	0.93	<50	1.19	630	<5	<0.05	12	880	20	<0.05	<10	<5	48	<100
W590075		<5	1.05	<50	1.42	510	<5	<0.05	23	830	20	0.05	<10	<5	73	<100
W590076		<5	1.92	<50	3.14	550	<5	<0.05	35	750	10	<0.05	<10	9	62	<100
W590077		<5	1.58	<50	1.92	590	<5	<0.05	6	1020	20	0.25	<10	<5	81	<100
W590078		<5	0.63	<50	0.50	370	<5	<0.05	6	270	10	<0.05	<10	<5	14	<100
W590079		<5	<0.05	<50	11.50	210	<5	<0.05	<5	190	<10	<0.05	<10	<5	30	<100
W590080		<5	0.30	<50	0.14	170	<5	<0.05	<5	180	10	<0.05	<10	<5	<5	<100
W590081		<5	0.42	<50	0.37	400	<5	<0.05	13	370	<10	<0.05	10	6	10	<100
W590082		<5	0.18	<50	0.09	230	<5	<0.05	6	250	<10	<0.05	10	<5	14	<100
W590083		<5	0.18	<50	<0.05	240	<5	<0.05	<5	100	<10	<0.05	<10	<5	7	<100
W590084		<5	1.05	<50	1.17	640	<5	<0.05	22	800	<10	<0.05	10	8	25	<100
W590085		<5	0.39	<50	0.29	250	<5	<0.05	<5	340	10	<0.05	10	<5	12	<100
W590086		<5	0.18	<50	<0.05	80	<5	<0.05	<5	90	<10	<0.05	<10	<5	15	<100
W590087		<5	0.19	<50	0.14	300	<5	<0.05	<5	940	10	<0.05	20	7	18	<100
W590088		<5	1.52	<50	1.54	1340	<5	<0.05	27	1160	20	<0.05	30	17	20	<100
W590089		<5	0.37	<50	0.24	330	<5	<0.05	7	290	20	<0.05	<10	<5	24	<100
W590090		<5	0.20	<50	<0.05	100	<5	<0.05	<5	60	10	<0.05	10	<5	<5	<100
W590091		<5	0.30	<50	0.05	120	<5	<0.05	6	170	20	<0.05	<10	<5	10	<100
W590092		<5	0.15	<50	0.07	470	<5	<0.05	<5	110	30	<0.05	<10	<5	14	<100
W590093		<5	0.23	<50	3.11	1730	73	<0.05	79	1110	20	0.88	<10	<5	178	<100
W590094		<5	0.17	<50	0.05	170	<5	<0.05	6	80	10	<0.05	20	<5	7	<100
W590095		<5	1.87	<50	2.39	810	<5	<0.05	39	1370	10	0.22	<10	8	142	<100
W590096		<5	1.37	<50	1.99	770	<5	<0.05	22	920	<10	0.18	<10	9	158	<100
W590097		<5	0.21	<50	0.13	130	<5	<0.05	<5	70	10	<0.05	<10	<5	18	<100
W590098		<5	0.99	<50	1.29	830	<5	<0.05	38	410	20	0.06	10	11	65	<100
W590099		<5	1.04	<50	1.79	510	<5	<0.05	51	460	10	0.18	10	<5	113	<100
W590100		<5	0.65	<50	0.81	380	<5	0.06	23	290	30	0.08	<10	<5	53	<100
W590101		<5	0.39	<50	0.32	250	<5	0.06	10	170	10	<0.05	<10	<5	35	<100
W590102		<5	0.75	<50	0.69	400	<5	0.05	10	600	10	0.06	<10	<5	59	<100
W590103		<5	1.01	<50	1.24	520	<5	<0.05	15	580	10	0.12	10	<5	109	<100
W590104		<5	0.25	<50	0.16	170	5	<0.05	9	60	10	<0.05	<10	<5	21	<100
W590105		<5	0.20	<50	0.17	210	5	<0.05	10	110	<10	<0.05	<10	<5	21	<100
W590106		<5	0.49	<50	0.60	500	<5	<0.05	17	420	<10	<0.05	10	<5	16	<100
W590107		<5	0.57	<50	0.63	590	<5	<0.05	14	350	20	<0.05	<10	6	11	<100
W590108		<5	0.30	<50	0.07	230	<5	<0.05	7	150	40	<0.05	10	<5	8	<100



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CERTIFICATE OF ANALYSIS WH17183029

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
W590073		0.13	<50	<50	45	<50	50
W590074		0.24	<50	<50	57	<50	50
W590075		0.35	<50	<50	60	<50	60
W590076		0.20	<50	<50	84	<50	50
W590077		0.28	<50	<50	79	<50	60
W590078		<0.05	<50	<50	23	<50	20
W590079		<0.05	<50	<50	<5	<50	10
W590080		<0.05	<50	<50	8	<50	10
W590081		<0.05	<50	<50	40	<50	30
W590082		<0.05	<50	<50	7	<50	10
W590083		<0.05	<50	<50	<5	<50	10
W590084		0.09	<50	<50	61	<50	50
W590085		<0.05	<50	<50	20	<50	20
W590086		<0.05	<50	<50	<5	<50	10
W590087		<0.05	<50	<50	49	<50	40
W590088		0.13	<50	<50	141	<50	90
W590089		<0.05	<50	<50	14	<50	20
W590090		<0.05	<50	<50	<5	<50	10
W590091		<0.05	<50	<50	<5	<50	10
W590092		<0.05	<50	<50	<5	<50	20
W590093		<0.05	<50	<50	184	<50	430
W590094		<0.05	<50	<50	5	<50	10
W590095		0.33	<50	<50	97	<50	70
W590096		0.30	<50	<50	91	<50	60
W590097		<0.05	<50	<50	<5	<50	10
W590098		0.06	<50	<50	72	<50	50
W590099		0.27	<50	<50	53	<50	40
W590100		0.08	<50	<50	25	<50	10
W590101		<0.05	<50	<50	14	<50	<10
W590102		0.10	<50	<50	44	<50	10
W590103		0.17	<50	<50	51	<50	20
W590104		<0.05	<50	<50	<5	<50	<10
W590105		<0.05	<50	<50	9	<50	<10
W590106		0.12	<50	<50	37	<50	10
W590107		0.08	<50	<50	42	<50	20
W590108		<0.05	<50	<50	8	<50	<10



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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

CRU-QC

LOG-22

LOG-23

ME-ICP41a

PUL-32

PUL-QC

SPL-21

WEI-21