



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: 7-OCT-2017
Account: DEVARC

CERTIFICATE WH17183095

Project: Dan Man

P.O. No.: 1006216- Batch 14

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
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 WH17183095

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
W590469		2.66	0.036	<1	0.36	30	<50	<5	20	0.32	<5	<5	9	<5	0.84	<50
W590470		2.28	0.063	<1	0.34	40	80	<5	<10	0.37	<5	<5	8	<5	0.75	<50
W590471		2.46	0.298	<1	0.27	40	<50	<5	10	0.16	<5	<5	8	<5	0.54	<50
W590472		2.58	0.069	<1	0.56	50	540	<5	10	0.62	<5	<5	6	<5	0.92	<50
W590473		2.44	0.098	<1	0.45	40	150	<5	<10	0.67	<5	<5	6	<5	0.85	<50
W590474		1.98	0.326	<1	0.35	100	50	<5	<10	2.13	<5	6	10	<5	1.39	<50
W590475		2.20	1.400	1	0.55	860	120	<5	10	5.40	<5	20	27	<5	3.12	<50
W590476		2.16	0.271	<1	0.37	60	110	<5	10	0.17	<5	5	7	<5	0.60	<50
W590477		2.28	0.050	<1	0.38	30	<50	<5	10	0.73	<5	<5	8	6	0.71	<50
W590478		2.28	0.050	<1	0.48	30	<50	<5	20	0.08	<5	5	8	8	0.58	<50
W590479		2.18	0.035	<1	0.41	10	<50	<5	10	0.08	<5	<5	8	<5	0.31	<50
W590480		1.88	0.009	<1	0.37	<10	<50	<5	10	<0.05	<5	<5	9	<5	0.29	<50
W590481		1.94	0.026	<1	0.59	<10	<50	<5	<10	0.06	<5	6	7	<5	0.43	<50
W590482		2.20	0.072	<1	0.40	40	<50	<5	10	0.81	<5	<5	7	<5	0.42	<50
W590483		2.46	0.217	<1	0.55	70	<50	<5	<10	0.78	<5	<5	7	<5	0.55	<50
W590484		2.30	0.115	1	0.50	30	<50	<5	10	0.46	<5	<5	7	<5	0.50	<50
W590485		2.22	0.030	<1	0.55	20	60	<5	10	0.14	<5	<5	6	<5	0.37	<50
W590486		2.90	0.087	<1	0.36	10	50	<5	10	0.14	<5	<5	7	<5	0.36	<50
W590487		1.90	0.445	<1	0.45	60	50	<5	<10	<0.05	<5	<5	8	7	0.99	<50
W590488		2.20	0.277	<1	0.36	50	<50	<5	10	<0.05	<5	<5	6	<5	0.53	<50
W590489		0.32	1.175	<1	0.66	260	110	<5	10	17.65	<5	5	30	83	2.57	<50
W590490		2.04	0.136	<1	0.52	120	70	<5	<10	2.87	<5	12	19	10	1.98	<50
W590491		3.06	0.081	<1	0.41	10	<50	<5	10	0.05	<5	<5	10	<5	0.87	<50
W590492		2.94	0.048	<1	0.50	20	<50	<5	10	0.35	<5	<5	9	<5	0.63	<50
W590493		3.14	0.017	<1	1.21	30	100	<5	<10	5.86	<5	21	75	12	3.78	<50
W590494		3.04	0.023	<1	0.52	<10	<50	<5	10	0.44	<5	7	9	<5	0.95	<50
W590495		2.98	0.020	<1	0.42	10	<50	<5	10	0.07	<5	<5	10	<5	0.59	<50
W590496		2.46	<0.001	<1	0.08	<10	<50	<5	<10	20.2	<5	<5	<5	<5	0.45	<50
W590497		2.96	0.038	<1	0.46	10	<50	<5	<10	0.06	<5	<5	10	<5	0.89	<50
W590498		2.58	0.077	<1	0.39	20	<50	<5	10	0.06	<5	<5	8	<5	0.57	<50
W590499		3.16	0.026	<1	0.40	<10	<50	<5	10	0.14	<5	<5	9	<5	0.52	<50
W590500		2.72	0.035	<1	0.44	20	<50	<5	10	<0.05	<5	<5	9	<5	0.86	<50
W636001		2.72	0.072	<1	0.50	30	50	<5	10	0.24	<5	<5	12	9	0.72	<50
W636002		2.50	0.034	<1	0.46	<10	<50	<5	10	<0.05	<5	<5	7	<5	0.50	<50
W636003		2.58	0.039	<1	0.62	10	<50	<5	10	0.06	<5	<5	11	<5	0.98	<50
W636004		2.64	0.255	<1	0.35	60	<50	<5	10	0.05	<5	<5	9	<5	0.84	<50



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CERTIFICATE OF ANALYSIS WH17183095

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
W590469		<5	0.28	<50	<0.05	60	<5	<0.05	<5	80	20	0.40	10	<5	21	<100
W590470		<5	0.29	<50	<0.05	30	<5	<0.05	<5	90	50	0.48	20	<5	34	<100
W590471		<5	0.23	<50	<0.05	<30	<5	<0.05	<5	50	20	0.25	10	<5	24	<100
W590472		<5	0.15	<50	0.09	230	<5	<0.05	5	70	20	0.53	10	<5	47	<100
W590473		<5	0.24	<50	0.14	200	<5	<0.05	<5	120	20	0.62	10	<5	41	<100
W590474		<5	0.22	<50	0.57	540	<5	<0.05	11	90	50	0.82	20	<5	94	<100
W590475		<5	0.35	<50	2.03	1110	<5	<0.05	61	100	100	2.68	20	7	400	<100
W590476		<5	0.28	<50	<0.05	280	<5	<0.05	<5	80	20	<0.05	10	<5	41	<100
W590477		<5	0.26	<50	<0.05	310	<5	<0.05	5	130	30	<0.05	20	<5	37	<100
W590478		<5	0.25	<50	<0.05	210	<5	<0.05	9	80	30	<0.05	10	<5	45	<100
W590479		<5	0.26	<50	<0.05	80	<5	<0.05	<5	50	20	<0.05	20	<5	10	<100
W590480		<5	0.20	<50	<0.05	90	<5	<0.05	<5	70	10	<0.05	10	<5	10	<100
W590481		<5	0.22	<50	<0.05	130	<5	<0.05	<5	60	20	<0.05	10	<5	11	<100
W590482		<5	0.16	<50	<0.05	110	<5	<0.05	<5	50	10	<0.05	<10	<5	30	<100
W590483		<5	0.18	<50	<0.05	80	<5	<0.05	6	90	10	<0.05	<10	<5	32	<100
W590484		<5	0.18	<50	<0.05	120	<5	<0.05	<5	60	<10	<0.05	20	<5	24	<100
W590485		<5	0.25	<50	<0.05	150	<5	<0.05	<5	90	10	<0.05	20	<5	30	<100
W590486		<5	0.30	<50	<0.05	110	<5	<0.05	<5	60	10	<0.05	10	<5	21	<100
W590487		<5	0.33	50	<0.05	160	<5	<0.05	<5	90	10	<0.05	20	<5	15	<100
W590488		<5	0.25	50	<0.05	120	<5	<0.05	<5	80	10	<0.05	10	<5	36	<100
W590489		<5	0.23	<50	3.20	1720	69	<0.05	73	1180	20	0.88	20	<5	209	<100
W590490		<5	0.30	<50	0.08	410	<5	<0.05	17	220	40	<0.05	10	<5	49	<100
W590491		<5	0.18	<50	<0.05	160	<5	<0.05	<5	60	10	<0.05	20	<5	20	<100
W590492		<5	0.20	<50	<0.05	130	<5	<0.05	7	90	10	<0.05	20	<5	28	<100
W590493		<5	0.49	<50	0.35	740	<5	<0.05	34	610	20	<0.05	10	13	68	<100
W590494		<5	0.25	<50	<0.05	190	<5	<0.05	<5	100	10	<0.05	<10	<5	24	<100
W590495		<5	0.21	<50	<0.05	120	<5	<0.05	<5	70	20	<0.05	10	<5	20	<100
W590496		<5	0.05	<50	12.10	200	<5	<0.05	<5	250	20	<0.05	20	<5	51	<100
W590497		<5	0.21	<50	<0.05	160	<5	<0.05	<5	60	10	<0.05	10	<5	23	<100
W590498		<5	0.20	<50	<0.05	140	<5	<0.05	<5	130	10	<0.05	<10	<5	23	<100
W590499		<5	0.15	<50	0.08	140	<5	<0.05	<5	90	<10	<0.05	10	<5	30	<100
W590500		<5	0.20	<50	<0.05	120	<5	<0.05	<5	60	10	<0.05	10	<5	11	<100
W636001		<5	0.21	<50	0.08	180	<5	<0.05	<5	100	10	0.07	10	<5	33	<100
W636002		<5	0.17	<50	<0.05	110	<5	<0.05	<5	<50	10	<0.05	<10	<5	19	<100
W636003		<5	0.22	<50	0.05	150	<5	<0.05	5	140	10	<0.05	20	<5	48	<100
W636004		<5	0.18	50	<0.05	140	<5	<0.05	<5	110	30	<0.05	20	<5	36	<100



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CERTIFICATE OF ANALYSIS WH17183095

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
W590469		<0.05	<50	<50	<5	<50	10
W590470		<0.05	<50	<50	<5	<50	<10
W590471		<0.05	<50	<50	<5	<50	<10
W590472		<0.05	<50	<50	<5	<50	20
W590473		<0.05	<50	<50	<5	<50	20
W590474		<0.05	<50	<50	<5	<50	30
W590475		<0.05	<50	<50	10	<50	60
W590476		<0.05	<50	<50	<5	<50	<10
W590477		<0.05	<50	<50	<5	<50	10
W590478		<0.05	<50	<50	<5	<50	10
W590479		<0.05	<50	<50	<5	<50	<10
W590480		<0.05	<50	<50	<5	<50	<10
W590481		<0.05	<50	<50	<5	<50	<10
W590482		<0.05	<50	<50	<5	<50	<10
W590483		<0.05	<50	<50	<5	<50	<10
W590484		<0.05	<50	<50	<5	<50	<10
W590485		<0.05	<50	<50	<5	<50	10
W590486		<0.05	<50	<50	<5	<50	<10
W590487		<0.05	<50	<50	<5	<50	<10
W590488		<0.05	<50	<50	<5	<50	10
W590489		<0.05	<50	<50	187	<50	430
W590490		<0.05	<50	<50	14	<50	40
W590491		<0.05	<50	<50	<5	<50	<10
W590492		<0.05	<50	<50	<5	<50	10
W590493		<0.05	<50	<50	68	<50	130
W590494		<0.05	<50	<50	<5	<50	10
W590495		<0.05	<50	<50	<5	<50	20
W590496		<0.05	<50	<50	<5	<50	20
W590497		<0.05	<50	<50	<5	<50	<10
W590498		<0.05	<50	<50	<5	<50	10
W590499		<0.05	<50	<50	<5	<50	<10
W590500		<0.05	<50	<50	<5	<50	<10
W636001		<0.05	<50	<50	<5	<50	<10
W636002		<0.05	<50	<50	<5	<50	<10
W636003		<0.05	<50	<50	<5	<50	<10
W636004		<0.05	<50	<50	<5	<50	20



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CERTIFICATE OF ANALYSIS WH17183095

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