



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: 13-OCT-2017
Account: DEVARC

CERTIFICATE WH17183050

Project: Dan Man

P.O. No.: 1006216-Batch 10

This report is for 36 Rock samples submitted to our lab in Whitehorse, YT, Canada on 28-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 WH17183050

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
W590325		2.54	<0.001	1	0.45	10	<50	<5	<10	<0.05	<5	<5	7	<5	0.80	<50
W590326		2.88	0.025	<1	0.52	30	<50	<5	<10	<0.05	<5	<5	7	8	0.95	<50
W590327		2.44	0.007	<1	0.39	30	<50	<5	10	<0.05	<5	6	8	20	1.03	<50
W590328		3.24	0.020	1	0.48	60	60	<5	<10	0.07	<5	<5	6	6	1.29	<50
W590329		2.92	0.013	<1	0.33	10	<50	<5	10	<0.05	<5	<5	5	<5	0.78	<50
W590330		3.02	0.003	<1	0.49	10	<50	<5	<10	<0.05	<5	<5	6	<5	1.17	<50
W590331		2.58	0.030	<1	0.41	20	<50	<5	10	<0.05	<5	<5	6	<5	0.75	<50
W590332		3.14	0.004	<1	0.35	10	<50	<5	10	<0.05	<5	<5	7	<5	0.73	<50
W590333		3.14	0.024	<1	0.61	<10	<50	<5	10	0.97	<5	<5	8	5	1.30	<50
W590334		3.66	0.002	<1	0.38	10	<50	<5	<10	1.23	<5	<5	5	<5	0.88	<50
W590335		3.54	0.026	<1	0.29	30	<50	<5	<10	0.57	<5	<5	7	<5	0.60	<50
W590336		3.38	0.016	<1	0.39	30	<50	<5	<10	0.43	<5	5	7	8	0.83	<50
W590337		3.10	0.075	<1	0.46	70	<50	<5	<10	1.19	<5	<5	6	<5	0.94	<50
W590338		2.44	0.002	<1	<0.05	<10	<50	<5	<10	20.2	<5	<5	<5	<5	0.43	<50
W590339		2.96	0.062	<1	0.44	50	<50	<5	10	1.22	<5	<5	8	<5	0.89	<50
W590340		3.44	0.034	<1	0.55	30	<50	<5	<10	1.95	<5	<5	6	<5	0.81	<50
W590341		2.98	0.005	<1	0.43	20	<50	<5	<10	0.75	<5	<5	7	<5	0.55	<50
W590342		2.86	0.014	1	0.50	20	<50	<5	<10	0.52	<5	<5	9	<5	0.80	<50
W590343		3.22	0.058	<1	0.42	20	<50	<5	10	0.92	<5	<5	7	<5	0.67	<50
W590344		3.44	0.009	<1	0.35	20	<50	<5	<10	0.80	<5	<5	7	<5	0.46	<50
W590345		3.18	0.008	<1	0.38	10	<50	<5	<10	0.05	<5	<5	9	<5	0.58	<50
W590346		3.02	0.035	<1	0.52	30	<50	<5	<10	0.12	<5	<5	6	6	0.56	<50
W590347		3.34	0.027	<1	0.37	30	<50	<5	<10	0.46	<5	<5	6	<5	0.46	<50
W590348		3.12	0.071	<1	0.59	50	50	<5	<10	1.09	<5	<5	5	7	0.85	<50
W590349		2.98	0.107	1	0.44	30	<50	<5	<10	0.43	<5	<5	6	<5	0.75	<50
W590350		3.44	0.027	<1	0.45	20	<50	<5	<10	0.22	<5	5	8	<5	0.68	<50
W590351		2.72	0.018	1	0.52	30	<50	<5	10	1.19	<5	<5	7	<5	0.83	<50
W590352		3.22	0.029	<1	0.49	<10	<50	<5	<10	0.55	<5	<5	7	11	0.69	<50
W590353		3.18	0.001	<1	0.50	<10	<50	<5	<10	<0.05	<5	<5	6	6	0.46	<50
W590354		2.76	0.004	<1	0.48	10	<50	<5	<10	<0.05	<5	<5	8	7	0.94	<50
W590355		2.78	0.003	<1	0.51	10	<50	<5	10	0.05	<5	<5	9	<5	1.03	<50
W590356		2.74	<0.001	<1	0.43	<10	70	<5	<10	0.05	<5	<5	10	<5	0.98	<50
W590357		2.76	<0.001	<1	0.58	<10	<50	<5	10	0.91	<5	<5	11	<5	1.15	<50
W590358		2.66	<0.001	<1	0.65	<10	<50	<5	10	0.24	<5	<5	10	<5	0.95	<50
W590359		3.22	0.012	<1	0.48	<10	<50	<5	10	0.06	<5	<5	12	8	1.13	<50
W590360		0.32	1.045	<1	0.58	210	110	<5	20	17.90	<5	8	26	83	2.54	<50



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CERTIFICATE OF ANALYSIS WH17183050

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
W590325		<5	0.17	<50	<0.05	100	<5	<0.05	<5	90	10	<0.05	<10	<5	20	<100
W590326		<5	0.15	<50	<0.05	160	<5	<0.05	<5	50	10	<0.05	<10	<5	14	<100
W590327		<5	0.15	<50	<0.05	270	<5	<0.05	<5	70	30	<0.05	<10	<5	15	<100
W590328		<5	0.18	<50	<0.05	460	<5	<0.05	<5	80	80	<0.05	<10	<5	27	<100
W590329		<5	0.15	<50	<0.05	220	<5	<0.05	<5	<50	10	<0.05	<10	<5	9	<100
W590330		<5	0.17	<50	<0.05	170	5	<0.05	<5	70	10	<0.05	<10	<5	23	<100
W590331		<5	0.16	<50	<0.05	190	<5	<0.05	<5	60	10	0.07	<10	<5	15	<100
W590332		<5	0.17	<50	<0.05	170	<5	<0.05	<5	80	10	<0.05	<10	<5	10	<100
W590333		<5	0.37	<50	0.15	300	<5	<0.05	5	180	10	0.05	10	<5	28	<100
W590334		<5	0.18	<50	<0.05	250	<5	<0.05	<5	60	10	0.05	<10	<5	26	<100
W590335		<5	0.17	<50	<0.05	160	<5	<0.05	<5	<50	<10	<0.05	<10	<5	14	<100
W590336		<5	0.20	<50	<0.05	180	<5	<0.05	<5	<50	<10	0.05	<10	<5	22	<100
W590337		<5	0.20	<50	<0.05	230	<5	<0.05	<5	70	10	0.05	<10	<5	42	<100
W590338		<5	<0.05	<50	11.35	190	<5	<0.05	6	190	<10	0.05	<10	<5	37	<100
W590339		<5	0.17	<50	<0.05	210	<5	<0.05	<5	<50	10	0.05	<10	<5	29	<100
W590340		<5	0.19	<50	<0.05	220	<5	<0.05	<5	60	<10	<0.05	<10	<5	50	<100
W590341		<5	0.16	<50	0.07	190	<5	<0.05	<5	70	10	<0.05	<10	<5	24	<100
W590342		<5	0.22	<50	<0.05	200	<5	<0.05	<5	70	<10	<0.05	<10	<5	26	<100
W590343		6	0.17	<50	<0.05	150	<5	<0.05	<5	50	10	0.05	<10	<5	38	<100
W590344		<5	0.17	<50	<0.05	130	<5	<0.05	<5	<50	10	<0.05	<10	<5	24	<100
W590345		<5	0.17	<50	<0.05	100	<5	<0.05	<5	50	<10	<0.05	<10	<5	16	<100
W590346		<5	0.21	<50	<0.05	140	<5	<0.05	<5	50	10	<0.05	10	<5	13	<100
W590347		<5	0.17	<50	<0.05	90	<5	<0.05	<5	<50	<10	<0.05	<10	<5	15	<100
W590348		<5	0.18	<50	<0.05	290	<5	<0.05	<5	<50	10	<0.05	<10	<5	27	<100
W590349		<5	0.16	<50	<0.05	180	<5	<0.05	<5	<50	10	<0.05	<10	<5	20	<100
W590350		<5	0.17	<50	<0.05	190	<5	<0.05	<5	<50	20	<0.05	<10	<5	17	<100
W590351		<5	0.15	<50	<0.05	270	<5	<0.05	<5	<50	10	<0.05	<10	<5	26	<100
W590352		<5	0.21	<50	<0.05	210	<5	<0.05	<5	<50	10	<0.05	10	<5	11	<100
W590353		<5	0.16	<50	<0.05	140	<5	<0.05	<5	60	10	<0.05	<10	<5	20	<100
W590354		<5	0.17	<50	<0.05	220	<5	<0.05	<5	70	10	<0.05	20	<5	8	<100
W590355		<5	0.20	<50	<0.05	230	<5	<0.05	<5	100	<10	<0.05	10	<5	18	<100
W590356		<5	0.19	<50	<0.05	380	<5	<0.05	<5	150	10	<0.05	<10	<5	13	<100
W590357		<5	0.21	<50	0.06	250	<5	<0.05	<5	110	10	<0.05	<10	<5	16	<100
W590358		<5	0.23	<50	<0.05	210	<5	<0.05	<5	60	<10	<0.05	10	<5	12	<100
W590359		<5	0.18	<50	<0.05	340	<5	<0.05	7	90	10	<0.05	10	<5	24	<100
W590360		<5	0.20	<50	3.09	1680	71	<0.05	80	1050	20	0.88	10	<5	178	<100



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CERTIFICATE OF ANALYSIS WH17183050

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
W590325		<0.05	<50	<50	<5	<50	10
W590326		<0.05	<50	<50	<5	<50	20
W590327		<0.05	<50	<50	<5	<50	20
W590328		<0.05	<50	<50	<5	<50	20
W590329		<0.05	<50	<50	<5	<50	10
W590330		<0.05	<50	<50	<5	<50	20
W590331		<0.05	<50	<50	<5	<50	10
W590332		<0.05	<50	<50	<5	<50	10
W590333		<0.05	<50	<50	10	<50	30
W590334		<0.05	<50	<50	<5	<50	20
W590335		<0.05	<50	<50	<5	<50	10
W590336		<0.05	<50	<50	<5	<50	10
W590337		<0.05	<50	<50	<5	<50	10
W590338		<0.05	<50	<50	<5	<50	10
W590339		<0.05	<50	<50	<5	<50	10
W590340		<0.05	<50	<50	<5	<50	10
W590341		<0.05	<50	<50	<5	<50	10
W590342		<0.05	<50	<50	<5	<50	<10
W590343		<0.05	<50	<50	<5	<50	<10
W590344		<0.05	<50	<50	<5	<50	<10
W590345		<0.05	<50	<50	<5	<50	10
W590346		<0.05	<50	<50	<5	<50	10
W590347		<0.05	<50	<50	<5	<50	<10
W590348		<0.05	<50	<50	<5	<50	20
W590349		<0.05	<50	<50	<5	<50	10
W590350		<0.05	<50	<50	<5	<50	10
W590351		<0.05	<50	<50	<5	<50	20
W590352		<0.05	<50	<50	<5	<50	10
W590353		<0.05	<50	<50	<5	<50	<10
W590354		<0.05	<50	<50	<5	<50	20
W590355		<0.05	<50	<50	<5	<50	30
W590356		<0.05	<50	<50	<5	<50	40
W590357		<0.05	<50	<50	5	<50	30
W590358		<0.05	<50	<50	<5	<50	20
W590359		<0.05	<50	<50	<5	<50	30
W590360		<0.05	<50	<50	171	<50	410



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CERTIFICATE OF ANALYSIS WH17183050

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