



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

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Plus Appendix Pages
Finalized Date: 3-OCT-2017
Account: DEVARC

CERTIFICATE WH17186521

Project: Dan man

P.O. No.: 1006216-Batch 26

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 WH17186521

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
W636401		2.44	<0.001	<1	0.56	<10	50	<5	<10	1.96	<5	<5	10	13	0.79	<50
W636402		2.56	<0.001	<1	0.93	<10	60	<5	10	2.81	<5	<5	42	9	1.52	<50
W636403		0.32	1.310	33	1.13	520	650	<5	<10	0.27	31	6	14	138	5.44	<50
W636404		2.54	<0.001	<1	0.31	<10	<50	<5	<10	<0.05	<5	<5	13	5	0.63	<50
W636405		2.44	<0.001	<1	3.50	<10	390	<5	<10	3.93	<5	26	149	37	4.85	<50
W636406		2.12	<0.001	1	3.00	<10	490	<5	<10	4.29	<5	24	80	21	4.96	<50
W636407		2.28	<0.001	1	0.38	<10	<50	<5	<10	1.49	<5	<5	11	<5	0.56	<50
W636408		2.56	<0.001	1	0.40	<10	50	<5	<10	0.77	<5	<5	9	<5	0.51	<50
W636409		2.38	<0.001	<1	0.37	<10	<50	<5	<10	0.92	<5	<5	9	<5	0.44	<50
W636410		2.22	<0.001	<1	0.51	<10	50	<5	<10	2.37	<5	<5	14	11	0.86	<50
W636411		2.00	<0.001	<1	1.94	<10	190	<5	<10	2.54	<5	12	82	16	2.76	<50
W636412		1.84	0.001	1	0.54	<10	<50	<5	<10	0.90	<5	<5	21	13	1.16	<50
W636413		1.78	<0.001	<1	0.53	30	<50	<5	<10	1.76	<5	<5	12	5	1.05	<50
W636414		1.96	<0.001	<1	0.80	20	50	<5	<10	1.43	<5	<5	18	5	1.23	<50
W636415		2.02	<0.001	<1	0.38	<10	<50	<5	<10	0.19	<5	<5	11	7	0.56	<50
W636416		2.20	<0.001	1	0.42	<10	50	<5	<10	1.09	<5	<5	11	<5	0.55	<50
W636417		2.48	<0.001	1	0.39	<10	70	<5	<10	0.57	<5	<5	12	<5	0.72	<50
W636418		2.36	<0.001	<1	0.38	<10	60	<5	<10	0.60	<5	<5	13	<5	0.78	<50
W636419		2.54	<0.001	<1	0.61	<10	80	<5	<10	1.80	<5	<5	13	5	1.04	<50
W636420		2.50	0.001	<1	0.35	<10	<50	<5	<10	0.55	<5	<5	13	8	0.88	<50
W636421		3.02	<0.001	1	0.33	<10	60	<5	10	0.05	<5	<5	14	<5	0.68	<50
W636422		3.10	<0.001	<1	0.32	<10	<50	<5	<10	2.22	<5	<5	15	<5	1.09	<50
W636423		2.30	<0.001	<1	<0.05	<10	<50	<5	<10	20.9	<5	<5	<5	<5	0.45	<50
W636424		2.80	<0.001	1	0.62	<10	70	<5	<10	2.27	<5	<5	24	13	1.23	<50
W636425		2.44	<0.001	<1	1.99	<10	190	<5	<10	2.66	<5	12	85	14	2.61	<50
W636426		2.98	<0.001	<1	0.28	<10	<50	<5	<10	0.49	<5	<5	12	<5	0.41	<50
W636427		2.54	<0.001	<1	0.40	<10	<50	<5	<10	1.68	<5	<5	10	<5	0.68	<50
W636428		2.40	<0.001	<1	1.03	<10	<50	<5	<10	2.83	<5	7	52	5	1.68	<50
W636429		2.48	<0.001	1	0.39	<10	<50	<5	<10	0.70	<5	<5	10	<5	0.53	<50
W636430		2.98	<0.001	1	0.38	<10	<50	<5	<10	0.59	<5	<5	9	5	0.44	<50
W636431		2.62	<0.001	<1	0.31	<10	<50	<5	<10	0.96	<5	<5	11	<5	0.52	<50
W636432		2.60	<0.001	<1	0.31	<10	<50	<5	<10	1.02	<5	<5	11	<5	0.74	<50
W636433		2.84	<0.001	1	0.92	<10	90	<5	<10	2.46	<5	10	55	6	1.92	<50
W636434		2.70	0.001	1	0.29	<10	<50	<5	<10	0.89	<5	<5	13	7	0.83	<50
W636435		2.36	<0.001	<1	2.12	<10	130	<5	<10	2.99	<5	17	125	10	3.26	<50
W636436		2.58	<0.001	<1	1.71	<10	110	<5	<10	2.69	<5	13	78	14	2.69	<50



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CERTIFICATE OF ANALYSIS WH17186521

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
W636401		<5	0.21	<50	0.10	190	<5	<0.05	10	100	10	<0.05	20	<5	33	<100
W636402		<5	0.53	<50	0.47	360	<5	<0.05	20	270	10	<0.05	10	<5	51	<100
W636403		8	0.48	<50	0.09	1060	8	<0.05	9	1450	3320	0.44	40	<5	153	<100
W636404		5	0.17	<50	0.05	90	<5	<0.05	<5	50	10	<0.05	10	<5	9	<100
W636405		<5	2.75	<50	3.30	1110	<5	<0.05	59	650	10	<0.05	10	16	58	<100
W636406		<5	2.49	<50	2.45	930	<5	<0.05	35	1210	10	0.25	10	17	79	<100
W636407		5	0.26	<50	0.05	120	<5	<0.05	6	70	10	<0.05	<10	<5	18	<100
W636408		<5	0.23	<50	0.06	130	<5	<0.05	<5	60	<10	<0.05	<10	<5	20	<100
W636409		<5	0.19	<50	<0.05	100	<5	<0.05	<5	<50	10	<0.05	10	<5	27	<100
W636410		5	0.25	<50	0.19	200	<5	<0.05	13	110	10	<0.05	20	<5	44	<100
W636411		<5	1.50	<50	1.51	570	<5	<0.05	33	480	10	<0.05	10	8	50	<100
W636412		<5	0.17	<50	0.15	160	<5	<0.05	6	90	10	<0.05	<10	<5	18	<100
W636413		<5	0.19	<50	0.15	130	<5	<0.05	7	80	10	<0.05	<10	<5	23	<100
W636414		<5	0.19	<50	0.20	180	<5	<0.05	6	90	10	<0.05	20	<5	22	<100
W636415		<5	0.16	<50	0.06	70	<5	<0.05	<5	80	10	<0.05	<10	<5	14	<100
W636416		<5	0.22	<50	<0.05	80	<5	<0.05	6	60	10	<0.05	10	<5	18	<100
W636417		<5	0.25	<50	0.05	100	<5	<0.05	<5	70	<10	<0.05	10	<5	16	<100
W636418		<5	0.16	<50	0.05	70	<5	0.06	5	50	10	<0.05	10	<5	17	<100
W636419		<5	0.36	<50	0.10	180	<5	<0.05	14	110	10	<0.05	10	<5	21	<100
W636420		<5	0.18	<50	0.05	80	<5	<0.05	5	50	10	<0.05	<10	<5	16	<100
W636421		<5	0.26	<50	<0.05	110	<5	0.05	<5	60	10	<0.05	10	<5	9	<100
W636422		<5	0.08	<50	0.06	170	<5	<0.05	6	<50	10	<0.05	<10	<5	21	<100
W636423		<5	<0.05	<50	11.75	210	<5	<0.05	<5	180	<10	<0.05	20	<5	49	<100
W636424		<5	0.34	<50	0.43	250	<5	<0.05	9	120	<10	<0.05	<10	<5	35	<100
W636425		<5	1.60	<50	1.69	580	<5	<0.05	37	350	<10	0.05	10	9	40	<100
W636426		<5	0.17	<50	<0.05	60	<5	0.07	<5	<50	10	<0.05	<10	<5	13	<100
W636427		<5	0.13	<50	0.20	120	<5	<0.05	<5	<50	10	<0.05	10	<5	21	<100
W636428		<5	0.69	<50	0.77	420	<5	<0.05	18	220	<10	0.09	<10	6	50	<100
W636429		5	0.15	<50	<0.05	70	<5	<0.05	<5	<50	10	<0.05	20	<5	12	<100
W636430		<5	0.23	<50	<0.05	70	<5	0.06	<5	<50	<10	<0.05	10	<5	13	<100
W636431		<5	0.12	<50	<0.05	80	<5	0.06	<5	50	<10	<0.05	<10	<5	16	<100
W636432		<5	0.19	<50	0.16	110	<5	0.05	<5	<50	10	0.08	<10	<5	18	<100
W636433		<5	0.59	<50	0.69	440	<5	0.05	20	260	10	<0.05	<10	8	26	<100
W636434		<5	0.08	<50	0.05	110	<5	0.07	<5	<50	<10	<0.05	<10	<5	20	<100
W636435		<5	1.80	<50	2.05	740	<5	<0.05	36	290	10	<0.05	<10	13	37	<100
W636436		<5	1.45	<50	1.55	560	<5	<0.05	37	310	10	0.18	<10	8	44	<100



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CERTIFICATE OF ANALYSIS WH17186521

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
W636401		<0.05	<50	<50	<5	<50	<10
W636402		0.05	<50	<50	18	<50	10
W636403		<0.05	<50	<50	57	<50	2300
W636404		<0.05	<50	<50	<5	<50	<10
W636405		0.32	<50	<50	115	<50	60
W636406		0.28	<50	<50	112	<50	60
W636407		<0.05	<50	<50	<5	<50	<10
W636408		<0.05	<50	<50	<5	<50	<10
W636409		<0.05	<50	<50	<5	<50	<10
W636410		<0.05	<50	<50	<5	<50	<10
W636411		0.15	<50	<50	49	<50	30
W636412		<0.05	<50	<50	7	<50	10
W636413		<0.05	<50	<50	<5	<50	<10
W636414		<0.05	<50	<50	8	<50	10
W636415		<0.05	<50	<50	<5	<50	<10
W636416		<0.05	<50	<50	<5	<50	<10
W636417		<0.05	<50	<50	<5	<50	<10
W636418		<0.05	<50	<50	<5	<50	<10
W636419		<0.05	<50	<50	5	<50	10
W636420		<0.05	<50	<50	<5	<50	<10
W636421		<0.05	<50	<50	<5	<50	<10
W636422		<0.05	<50	<50	5	<50	10
W636423		<0.05	<50	<50	<5	<50	<10
W636424		<0.05	<50	<50	13	<50	20
W636425		0.13	<50	<50	51	<50	20
W636426		<0.05	<50	<50	<5	<50	<10
W636427		<0.05	<50	<50	<5	<50	<10
W636428		0.05	<50	<50	28	<50	10
W636429		<0.05	<50	<50	<5	<50	<10
W636430		<0.05	<50	<50	<5	<50	<10
W636431		<0.05	<50	<50	<5	<50	<10
W636432		<0.05	<50	<50	<5	<50	<10
W636433		0.05	<50	<50	42	<50	20
W636434		<0.05	<50	<50	5	<50	<10
W636435		0.15	<50	<50	68	<50	50
W636436		0.12	<50	<50	40	<50	20



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CERTIFICATE OF ANALYSIS WH17186521

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	