



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: 23-OCT-2017
Account: DEVARC

CERTIFICATE WH17189953

Project: Dan Man

P.O. No.: 1006216-Batch 39

This report is for 36 Rock samples submitted to our lab in Whitehorse, YT, Canada on 5-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 WH17189953

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
W636869		3.12	<0.001	<1	1.16	10	100	<5	<10	3.19	<5	6	61	9	2.60	<50
W636870		2.68	<0.001	<1	1.28	30	140	<5	<10	1.45	<5	7	33	<5	2.42	<50
W636871		2.52	<0.001	<1	0.84	<10	70	<5	<10	2.77	<5	7	22	<5	1.96	<50
W636872		2.16	0.006	<1	<0.05	<10	<50	<5	<10	21.9	<5	<5	<5	<5	0.43	<50
W636873		2.82	<0.001	<1	0.76	10	60	<5	10	3.01	<5	<5	24	<5	1.96	<50
W636874		2.98	<0.001	<1	1.06	10	100	<5	10	2.40	<5	6	35	<5	2.43	<50
W636875		2.84	<0.001	<1	0.61	20	<50	<5	<10	2.01	<5	7	22	<5	1.68	<50
W636876		3.30	<0.001	<1	0.35	10	<50	<5	<10	1.00	<5	<5	16	14	1.27	<50
W636877		2.96	<0.001	<1	0.89	20	70	<5	<10	1.33	<5	13	41	6	2.18	<50
W636878		2.96	<0.001	<1	2.02	30	80	<5	<10	2.64	<5	15	10	12	4.70	<50
W636879		2.84	<0.001	<1	2.93	10	170	<5	<10	1.84	<5	19	36	11	4.18	<50
W636880		2.96	<0.001	<1	1.46	20	100	<5	<10	4.20	<5	15	69	9	3.01	<50
W636881		2.52	<0.001	<1	2.03	40	140	<5	<10	7.60	<5	14	42	17	4.15	<50
W636882		3.14	<0.001	<1	1.03	10	100	<5	<10	1.63	<5	8	12	18	2.31	<50
W636883		2.72	<0.001	<1	1.40	20	60	<5	<10	3.46	<5	9	73	<5	2.73	<50
W636884		2.58	<0.001	<1	2.17	20	<50	<5	<10	5.42	<5	17	63	17	3.34	<50
W636885		2.66	<0.001	<1	1.52	40	<50	<5	<10	2.06	<5	10	66	<5	3.19	<50
W636886		3.20	<0.001	<1	2.15	10	110	<5	<10	2.50	<5	19	166	<5	2.84	<50
W636887		3.26	<0.001	<1	2.29	20	50	<5	<10	1.86	<5	12	27	6	3.74	<50
W636888		2.84	<0.001	<1	1.99	40	60	<5	<10	10.20	<5	18	74	<5	5.19	<50
W636889		3.28	0.019	<1	2.53	10	60	<5	<10	3.82	<5	17	19	40	4.52	<50
W636890		3.34	<0.001	<1	2.05	30	90	<5	<10	5.42	<5	19	76	34	4.25	<50
W636891		3.26	<0.001	<1	0.69	<10	60	<5	<10	0.97	<5	<5	13	<5	1.46	<50
W636892		3.28	<0.001	<1	0.47	10	<50	<5	<10	0.69	<5	<5	17	14	1.37	<50
W636893		2.90	<0.001	<1	0.32	20	<50	<5	<10	0.51	<5	<5	18	10	1.12	<50
W636894		3.04	<0.001	<1	0.26	40	<50	<5	<10	0.68	<5	<5	17	11	1.11	<50
W636895		2.66	<0.001	<1	0.87	40	<50	<5	<10	1.77	<5	7	113	<5	1.88	<50
W636896		2.72	<0.001	<1	0.98	40	50	<5	<10	1.81	<5	7	134	<5	2.03	<50
W636897		2.84	<0.001	<1	0.24	20	<50	<5	<10	0.41	<5	<5	20	7	0.88	<50
W636898		3.00	<0.001	<1	0.32	20	<50	<5	10	0.16	<5	<5	14	11	1.34	<50
W636899		2.48	<0.001	1	0.25	10	170	<5	<10	0.33	<5	<5	19	11	0.83	<50
W636900		0.32	1.210	<1	0.54	230	110	<5	<10	17.40	<5	<5	27	76	2.43	<50
W636901		2.18	<0.001	1	0.31	10	<50	<5	<10	1.58	<5	<5	18	<5	1.19	<50
W636902		2.48	<0.001	<1	0.76	20	<50	<5	<10	1.24	<5	5	17	7	1.67	<50
W636903		2.04	<0.001	1	1.36	40	80	<5	<10	2.21	<5	8	21	<5	2.86	<50
W636904		2.18	<0.001	1	0.89	30	50	<5	<10	1.38	<5	8	32	11	2.15	<50



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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
W636869		<5	0.74	<50	0.86	530	<5	0.05	15	420	10	<0.05	<10	9	41	<100
W636870		<5	0.89	<50	0.86	410	<5	0.06	5	560	10	<0.05	<10	7	20	<100
W636871		<5	0.26	<50	0.35	390	<5	0.05	<5	250	10	<0.05	<10	<5	42	<100
W636872		<5	<0.05	<50	12.05	200	<5	<0.05	<5	190	10	<0.05	<10	<5	37	<100
W636873		<5	0.28	<50	0.31	380	<5	<0.05	12	400	10	<0.05	<10	<5	35	<100
W636874		<5	0.65	<50	0.94	440	<5	0.05	8	430	<10	<0.05	<10	7	33	<100
W636875		<5	0.21	<50	0.40	320	<5	0.06	11	250	20	<0.05	<10	<5	27	<100
W636876		<5	0.13	<50	0.21	200	<5	0.08	<5	160	10	<0.05	<10	<5	15	<100
W636877		<5	0.25	<50	0.31	550	<5	<0.05	14	280	40	<0.05	10	5	26	<100
W636878		<5	1.06	<50	0.93	840	<5	<0.05	<5	1510	80	<0.05	10	17	38	<100
W636879		<5	1.35	<50	2.08	640	<5	<0.05	30	1210	30	<0.05	<10	14	45	<100
W636880		<5	0.82	<50	1.32	630	<5	<0.05	23	440	20	<0.05	<10	11	56	<100
W636881		<5	0.66	<50	1.13	1030	<5	<0.05	10	1280	50	<0.05	<10	15	119	<100
W636882		<5	0.71	<50	0.74	470	<5	<0.05	<5	620	20	<0.05	<10	<5	29	<100
W636883		<5	0.46	<50	0.90	560	<5	<0.05	36	490	20	<0.05	<10	8	46	<100
W636884		<5	0.73	<50	1.54	760	<5	<0.05	47	880	30	<0.05	<10	12	86	<100
W636885		<5	0.56	<50	1.23	510	<5	<0.05	35	650	20	<0.05	<10	10	47	<100
W636886		<5	1.27	<50	2.16	510	<5	<0.05	87	670	10	<0.05	<10	7	83	<100
W636887		<5	1.25	<50	1.68	570	<5	<0.05	12	1140	20	<0.05	<10	13	57	<100
W636888		<5	1.19	<50	2.23	1390	<5	<0.05	33	920	50	<0.05	<10	18	344	<100
W636889		<5	1.59	<50	1.91	890	<5	<0.05	12	1360	20	<0.05	<10	15	70	<100
W636890		<5	1.33	<50	1.86	1020	<5	<0.05	23	1060	60	<0.05	<10	13	103	<100
W636891		<5	0.43	<50	0.38	250	<5	0.06	<5	230	20	<0.05	<10	<5	26	<100
W636892		5	0.28	<50	0.22	250	<5	0.06	<5	160	20	<0.05	<10	<5	16	<100
W636893		<5	0.17	<50	0.11	160	<5	0.05	10	70	10	<0.05	<10	<5	10	<100
W636894		<5	0.09	<50	0.07	220	<5	0.06	<5	<50	20	<0.05	<10	<5	12	<100
W636895		<5	0.58	<50	0.62	370	<5	0.05	38	190	20	<0.05	<10	5	26	<100
W636896		<5	0.68	<50	0.76	560	<5	<0.05	43	280	20	<0.05	<10	6	29	<100
W636897		<5	0.10	<50	<0.05	90	<5	0.08	<5	60	10	<0.05	<10	<5	10	<100
W636898		<5	0.13	<50	0.07	110	<5	0.06	<5	60	30	<0.05	<10	<5	8	<100
W636899		<5	0.07	<50	<0.05	1050	5	0.05	8	<50	30	<0.05	<10	<5	13	<100
W636900		<5	0.19	<50	2.98	1620	67	<0.05	73	1030	20	0.82	20	<5	178	<100
W636901		<5	0.10	<50	0.10	270	<5	<0.05	<5	70	30	<0.05	10	<5	23	<100
W636902		<5	0.36	<50	0.37	400	<5	<0.05	6	320	40	<0.05	<10	5	41	<100
W636903		<5	0.77	<50	0.74	500	<5	<0.05	8	630	30	<0.05	<10	9	50	<100
W636904		<5	0.23	<50	0.68	390	<5	<0.05	19	360	10	<0.05	<10	5	29	<100



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CERTIFICATE OF ANALYSIS WH17189953

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
W636869		0.07	<50	<50	54	<50	30
W636870		0.10	<50	<50	47	<50	30
W636871		<0.05	<50	<50	33	<50	20
W636872		<0.05	<50	<50	<5	<50	20
W636873		<0.05	<50	<50	25	<50	30
W636874		0.06	<50	<50	48	<50	40
W636875		<0.05	<50	<50	23	<50	20
W636876		<0.05	<50	<50	16	<50	20
W636877		<0.05	<50	<50	42	<50	80
W636878		0.05	<50	<50	141	<50	130
W636879		0.08	<50	<50	115	<50	100
W636880		0.06	<50	<50	69	<50	40
W636881		0.06	<50	<50	120	<50	80
W636882		0.07	<50	<50	39	<50	30
W636883		<0.05	<50	<50	55	<50	70
W636884		<0.05	<50	<50	87	<50	70
W636885		<0.05	<50	<50	81	<50	40
W636886		0.18	<50	<50	59	<50	60
W636887		0.05	<50	<50	111	<50	70
W636888		<0.05	<50	<50	96	<50	100
W636889		0.06	<50	<50	116	<50	100
W636890		0.07	<50	<50	99	<50	90
W636891		<0.05	<50	<50	23	<50	10
W636892		<0.05	<50	<50	14	<50	20
W636893		<0.05	<50	<50	11	<50	10
W636894		<0.05	<50	<50	7	<50	10
W636895		<0.05	<50	<50	30	<50	30
W636896		0.05	<50	<50	41	<50	30
W636897		<0.05	<50	<50	6	<50	<10
W636898		<0.05	<50	<50	9	<50	10
W636899		<0.05	<50	<50	5	<50	30
W636900		<0.05	<50	<50	160	<50	420
W636901		<0.05	<50	<50	13	<50	40
W636902		<0.05	<50	<50	29	<50	50
W636903		0.05	<50	<50	67	<50	80
W636904		0.09	<50	<50	46	<50	60



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CERTIFICATE OF ANALYSIS WH17189953

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