



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: 3-OCT-2017
Account: DEVARC

CERTIFICATE WH17183145

Project: Dan Man

P.O. No.: 1006216-Batch 23

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-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 WH17183145

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
W636293		2.48	<0.001	<1	0.26	<10	<50	<5	<10	0.48	<5	<5	13	5	0.63	<50
W636294		2.40	0.026	<1	0.25	20	<50	<5	<10	0.06	<5	<5	24	7	0.83	<50
W636295		2.48	0.007	<1	0.34	<10	<50	<5	<10	0.32	<5	<5	13	<5	0.67	<50
W636296		2.42	0.027	<1	0.45	<10	<50	<5	<10	0.25	<5	<5	13	<5	0.69	<50
W636297		2.62	<0.001	<1	1.34	<10	<50	<5	<10	2.31	<5	14	78	23	2.22	<50
W636298		2.60	<0.001	<1	0.28	10	<50	<5	<10	0.70	<5	<5	17	<5	0.61	<50
W636299		2.26	<0.001	<1	0.33	<10	<50	<5	10	0.37	<5	<5	14	6	0.42	<50
W636300		2.46	<0.001	<1	0.37	10	<50	<5	10	1.05	<5	8	13	5	0.90	<50
W636301		2.80	<0.001	<1	0.35	<10	<50	<5	10	0.74	<5	<5	12	5	0.59	<50
W636302		2.58	<0.001	<1	0.33	<10	<50	<5	10	0.38	<5	<5	13	8	0.50	<50
W636303		2.54	<0.001	<1	0.32	<10	<50	<5	<10	0.62	<5	<5	12	7	0.57	<50
W636304		2.34	<0.001	<1	<0.05	10	<50	<5	<10	21.0	<5	<5	<5	<5	0.44	<50
W636305		2.24	<0.001	<1	0.28	<10	<50	<5	10	0.64	<5	<5	14	9	0.67	<50
W636306		2.36	<0.001	<1	0.29	<10	<50	<5	<10	0.78	<5	<5	16	8	0.78	<50
W636307		2.64	<0.001	<1	0.36	<10	<50	<5	10	0.66	<5	<5	11	5	0.54	<50
W636308		2.74	<0.001	<1	0.92	10	70	<5	<10	1.25	<5	7	47	14	1.33	<50
W636309		3.00	<0.001	<1	2.45	<10	340	<5	<10	2.78	<5	20	156	29	3.26	<50
W636310		2.64	<0.001	<1	0.36	<10	<50	<5	<10	1.29	<5	<5	22	<5	0.74	<50
W636311		2.26	<0.001	<1	0.26	<10	<50	<5	10	0.65	<5	<5	15	<5	0.38	<50
W636312		2.44	<0.001	<1	0.38	<10	<50	<5	<10	0.55	<5	<5	17	<5	0.56	<50
W636313		2.26	<0.001	<1	0.32	10	<50	<5	10	1.48	<5	<5	18	<5	0.70	<50
W636314		2.26	<0.001	<1	0.42	<10	<50	<5	<10	0.72	<5	<5	15	<5	0.60	<50
W636315		2.46	<0.001	<1	0.39	<10	<50	<5	<10	0.49	<5	<5	18	5	0.58	<50
W636316		2.84	<0.001	<1	0.33	10	<50	<5	<10	0.68	<5	<5	15	<5	0.54	<50
W636317		2.92	<0.001	<1	0.36	<10	<50	<5	<10	0.34	<5	<5	14	<5	0.43	<50
W636318		2.76	<0.001	<1	0.36	<10	<50	<5	10	0.41	<5	<5	17	<5	0.51	<50
W636319		2.98	<0.001	1	0.44	<10	<50	<5	<10	0.62	<5	<5	15	<5	0.61	<50
W636320		2.76	<0.001	<1	0.42	<10	<50	<5	10	0.56	<5	<5	14	<5	0.51	<50
W636321		2.86	<0.001	<1	0.40	<10	<50	<5	<10	0.59	<5	<5	13	<5	0.54	<50
W636322		2.66	<0.001	<1	0.38	10	<50	<5	<10	0.59	<5	<5	28	<5	0.53	<50
W636323		2.86	<0.001	<1	0.72	<10	<50	<5	<10	1.23	<5	<5	41	5	1.06	<50
W636324		0.32	1.160	<1	0.63	250	120	<5	10	17.65	5	<5	43	84	2.56	<50
W636325		3.00	<0.001	<1	0.37	<10	<50	<5	<10	0.45	<5	<5	17	<5	0.53	<50
W636326		2.80	<0.001	<1	0.43	<10	<50	<5	<10	0.55	<5	<5	17	<5	0.59	<50
W636327		2.64	<0.001	<1	2.66	<10	200	<5	<10	2.13	<5	20	117	27	2.98	<50
W636328		2.10	<0.001	<1	0.40	<10	<50	<5	<10	0.67	<5	<5	15	<5	0.56	<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
W636293		<5	0.14	<50	<0.05	100	<5	0.07	5	60	10	<0.05	<10	<5	15	<100
W636294		<5	0.12	<50	<0.05	100	<5	<0.05	8	50	10	<0.05	20	<5	<5	<100
W636295		<5	0.15	<50	<0.05	130	<5	0.06	<5	60	20	<0.05	20	<5	13	<100
W636296		<5	0.16	<50	<0.05	100	<5	0.05	<5	80	10	<0.05	10	<5	12	<100
W636297		<5	0.86	<50	1.20	390	<5	0.05	24	370	10	0.12	10	5	47	<100
W636298		<5	0.09	<50	0.05	100	<5	0.08	<5	60	20	<0.05	<10	<5	18	<100
W636299		<5	0.09	<50	<0.05	60	<5	0.11	5	50	10	<0.05	<10	<5	25	<100
W636300		<5	0.16	<50	0.13	190	<5	0.07	6	160	<10	<0.05	<10	<5	23	<100
W636301		<5	0.15	<50	0.05	110	<5	0.08	9	50	10	<0.05	10	<5	22	<100
W636302		<5	0.17	<50	<0.05	80	<5	0.07	6	50	10	<0.05	20	<5	26	<100
W636303		<5	0.14	<50	<0.05	110	<5	0.08	5	60	10	<0.05	30	<5	24	<100
W636304		<5	<0.05	<50	12.10	190	<5	<0.05	<5	190	10	<0.05	20	<5	48	<100
W636305		<5	0.08	<50	0.05	100	<5	0.07	<5	60	<10	<0.05	10	<5	22	<100
W636306		<5	0.12	<50	<0.05	150	<5	0.06	5	70	10	<0.05	20	<5	14	<100
W636307		<5	0.19	<50	0.12	100	<5	0.07	5	60	<10	<0.05	<10	<5	30	<100
W636308		<5	0.31	<50	0.74	220	<5	0.06	18	260	10	0.08	<10	<5	36	<100
W636309		<5	1.03	<50	2.29	620	<5	0.10	99	1630	<10	0.05	<10	5	74	<100
W636310		<5	0.14	<50	0.23	160	<5	0.08	8	170	10	<0.05	10	<5	36	<100
W636311		<5	0.08	<50	<0.05	70	<5	0.07	7	60	10	<0.05	10	<5	29	<100
W636312		<5	0.08	<50	<0.05	70	<5	0.13	9	70	10	<0.05	10	<5	40	<100
W636313		<5	0.08	<50	0.05	110	5	0.08	<5	60	<10	0.08	10	<5	33	<100
W636314		<5	0.10	<50	0.13	100	<5	0.11	<5	140	10	<0.05	10	<5	37	<100
W636315		<5	0.06	<50	0.06	70	<5	0.09	7	90	10	<0.05	<10	<5	39	<100
W636316		<5	0.06	<50	0.06	90	<5	0.10	7	70	<10	<0.05	10	<5	33	<100
W636317		<5	0.06	<50	0.07	60	<5	0.12	<5	90	10	<0.05	10	<5	34	<100
W636318		<5	0.05	<50	0.09	70	<5	0.11	5	80	10	<0.05	<10	<5	36	<100
W636319		<5	0.10	<50	0.15	90	<5	0.09	<5	150	10	<0.05	10	<5	53	<100
W636320		<5	0.08	<50	0.07	80	<5	0.14	5	80	<10	<0.05	20	<5	36	<100
W636321		<5	0.10	<50	0.06	80	<5	0.12	<5	70	10	<0.05	10	<5	40	<100
W636322		<5	0.09	<50	0.07	90	<5	0.11	7	90	<10	<0.05	<10	<5	26	<100
W636323		<5	0.12	<50	0.42	190	<5	0.09	8	230	10	<0.05	<10	<5	46	<100
W636324		<5	0.22	<50	3.17	1710	75	<0.05	84	1110	40	0.89	30	<5	203	<100
W636325		<5	0.13	<50	0.06	80	<5	0.09	6	80	10	<0.05	10	<5	27	<100
W636326		<5	0.09	<50	0.10	100	<5	0.11	<5	110	10	<0.05	10	<5	39	<100
W636327		<5	2.02	<50	2.54	550	<5	0.05	54	630	<10	<0.05	<10	<5	41	<100
W636328		<5	0.12	<50	0.05	90	<5	0.11	<5	60	<10	<0.05	<10	<5	41	<100



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CERTIFICATE OF ANALYSIS WH17183145

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
W636293		<0.05	<50	<50	<5	<50	10
W636294		<0.05	<50	<50	<5	<50	10
W636295		<0.05	<50	<50	<5	<50	<10
W636296		<0.05	<50	<50	5	<50	<10
W636297		0.13	<50	<50	48	<50	30
W636298		<0.05	<50	<50	<5	<50	<10
W636299		<0.05	<50	<50	<5	<50	<10
W636300		<0.05	<50	<50	7	60	10
W636301		<0.05	<50	<50	<5	<50	<10
W636302		<0.05	<50	<50	<5	<50	10
W636303		<0.05	<50	<50	<5	<50	<10
W636304		<0.05	<50	<50	<5	<50	10
W636305		<0.05	<50	<50	<5	50	<10
W636306		<0.05	<50	<50	<5	<50	<10
W636307		<0.05	<50	<50	<5	<50	<10
W636308		0.14	<50	<50	22	<50	10
W636309		0.34	<50	<50	66	<50	50
W636310		<0.05	<50	<50	6	<50	10
W636311		<0.05	<50	<50	<5	<50	<10
W636312		<0.05	<50	<50	<5	<50	<10
W636313		<0.05	<50	<50	<5	<50	<10
W636314		<0.05	<50	<50	<5	<50	<10
W636315		<0.05	<50	<50	<5	<50	20
W636316		<0.05	<50	<50	<5	<50	<10
W636317		<0.05	<50	<50	<5	<50	10
W636318		<0.05	<50	<50	<5	<50	10
W636319		<0.05	<50	<50	<5	<50	10
W636320		<0.05	<50	<50	<5	<50	<10
W636321		<0.05	<50	<50	<5	<50	10
W636322		<0.05	<50	<50	<5	<50	<10
W636323		<0.05	<50	<50	18	<50	10
W636324		<0.05	<50	<50	188	<50	480
W636325		<0.05	<50	<50	<5	<50	10
W636326		<0.05	<50	<50	<5	<50	10
W636327		0.34	<50	<50	71	<50	30
W636328		<0.05	<50	<50	<5	<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

LOG-22

LOG-23

ME-ICP41a

PUL-32

SPL-21

WEI-21