



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: 17-OCT-2017
Account: DEVARC

CERTIFICATE WH17189976

Project: Dan Man

P.O. No.: 1006216-Batch 48

This report is for 36 Rock samples submitted to our lab in Whitehorse, YT, Canada on 6-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 WH17189976

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
K294093		3.48	<0.001	<1	0.35	20	<50	<5	10	<0.05	<5	<5	13	<5	0.87	<50
K294094		3.40	0.001	<1	0.30	10	<50	<5	<10	<0.05	<5	<5	13	<5	0.81	<50
K294095		3.70	<0.001	<1	0.36	10	<50	<5	<10	<0.05	<5	<5	13	<5	1.09	<50
K294096		2.26	0.001	<1	<0.05	<10	<50	<5	<10	19.80	<5	<5	<5	<5	0.44	<50
K294097		3.90	<0.001	<1	0.31	<10	<50	<5	<10	0.08	<5	<5	15	<5	0.59	<50
K294098		3.80	<0.001	<1	0.50	10	60	<5	<10	1.21	<5	<5	16	<5	1.10	<50
K294099		3.26	0.003	<1	1.21	<10	140	<5	10	2.58	<5	<5	11	<5	1.89	<50
K294100		3.24	<0.001	<1	0.51	<10	90	<5	<10	1.87	<5	<5	10	<5	0.66	<50
K294101		3.16	<0.001	<1	0.50	20	50	<5	10	0.78	<5	<5	24	<5	1.25	<50
K294102		3.62	0.002	<1	0.30	10	50	<5	10	0.44	<5	<5	14	<5	0.42	<50
K294103		3.34	<0.001	<1	0.35	<10	50	<5	<10	0.28	<5	<5	15	<5	0.45	<50
K294104		3.54	<0.001	<1	0.31	<10	50	<5	10	0.76	<5	<5	14	<5	0.43	<50
K294105		3.58	<0.001	<1	0.38	10	<50	<5	10	1.12	<5	<5	12	<5	0.46	<50
K294106		3.86	<0.001	<1	1.44	10	340	<5	<10	1.67	<5	7	68	7	2.10	<50
K294107		2.94	0.004	<1	0.34	<10	50	<5	<10	0.50	<5	<5	16	<5	0.59	<50
K294108		3.32	<0.001	<1	0.56	10	<50	<5	<10	1.08	<5	<5	25	<5	0.96	<50
K294109		3.20	<0.001	<1	0.35	10	<50	<5	<10	0.40	<5	<5	15	<5	0.78	<50
K294110		3.32	<0.001	<1	0.30	10	<50	<5	10	0.39	<5	<5	14	<5	0.62	<50
K294111		3.58	<0.001	<1	0.70	20	<50	<5	10	0.76	<5	<5	14	<5	1.39	<50
K294112		3.18	0.001	<1	0.64	10	<50	<5	<10	0.92	<5	<5	21	<5	1.69	<50
K294113		3.20	<0.001	<1	0.48	<10	<50	<5	<10	0.07	<5	<5	15	<5	1.03	<50
K294114		2.96	<0.001	<1	0.31	20	<50	<5	<10	0.06	<5	<5	13	<5	0.66	<50
K294115		2.82	<0.001	<1	0.38	10	<50	<5	10	0.05	<5	<5	26	<5	1.03	<50
K294116		3.00	<0.001	<1	0.35	10	60	<5	<10	0.05	<5	<5	15	<5	0.58	<50
K294117		3.14	<0.001	1	0.39	10	60	<5	<10	<0.05	<5	<5	13	<5	0.53	<50
K294118		2.90	<0.001	<1	0.33	10	50	<5	10	<0.05	<5	<5	19	<5	0.61	<50
K294119		3.42	<0.001	<1	0.38	<10	60	<5	<10	0.21	<5	<5	15	<5	0.51	<50
K294120		2.54	<0.001	<1	2.65	<10	220	<5	<10	0.90	<5	15	90	16	4.09	<50
K294121		0.32	1.130	1	0.63	250	110	<5	20	17.55	<5	<5	28	70	2.55	<50
K294122		3.20	<0.001	1	0.87	<10	100	<5	<10	0.45	<5	<5	15	<5	1.55	<50
K294123		3.34	<0.001	<1	0.73	<10	<50	<5	<10	0.65	<5	<5	11	<5	1.35	<50
K294124		3.14	<0.001	<1	0.76	10	<50	<5	<10	0.75	<5	<5	11	<5	1.57	<50
K294125		3.36	<0.001	<1	0.63	<10	<50	<5	10	0.51	<5	<5	11	<5	1.64	<50
K294126		3.54	<0.001	<1	0.62	10	<50	<5	<10	0.53	<5	<5	10	<5	1.79	<50
K294127		3.22	<0.001	<1	1.07	<10	80	<5	10	1.14	<5	<5	29	<5	2.23	<50
K294128		2.90	<0.001	<1	2.39	10	430	<5	10	2.63	<5	16	90	7	3.28	<50



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CERTIFICATE OF ANALYSIS WH17189976

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	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		5	0.05	50	0.05	30	5	0.05	5	50	10	0.05	10	5	5	100
K294093		<5	0.18	<50	<0.05	80	<5	0.06	10	<50	10	<0.05	<10	<5	10	<100
K294094		<5	0.15	<50	<0.05	130	<5	0.05	<5	<50	10	<0.05	<10	<5	15	<100
K294095		<5	0.17	<50	<0.05	150	<5	<0.05	<5	<50	<10	<0.05	<10	<5	13	<100
K294096		5	<0.05	<50	10.95	200	<5	<0.05	<5	180	10	<0.05	<10	<5	56	<100
K294097		<5	0.13	<50	0.05	60	<5	0.11	<5	<50	10	<0.05	<10	<5	21	<100
K294098		<5	0.25	<50	0.12	210	<5	<0.05	<5	160	20	<0.05	10	<5	30	<100
K294099		<5	0.86	<50	0.71	410	<5	<0.05	<5	490	20	<0.05	<10	<5	91	<100
K294100		5	0.41	<50	0.09	220	<5	<0.05	<5	240	<10	0.05	<10	<5	103	<100
K294101		<5	0.33	<50	0.17	140	<5	0.05	12	180	10	<0.05	<10	<5	165	<100
K294102		<5	0.22	<50	<0.05	70	<5	0.05	7	<50	<10	<0.05	<10	<5	60	<100
K294103		<5	0.22	<50	<0.05	70	<5	0.07	<5	<50	<10	<0.05	10	<5	12	<100
K294104		<5	0.22	<50	<0.05	70	<5	0.07	<5	<50	<10	<0.05	<10	<5	37	<100
K294105		5	0.24	<50	<0.05	70	<5	0.06	<5	<50	<10	<0.05	<10	<5	16	<100
K294106		8	1.20	<50	1.25	480	<5	0.05	21	240	<10	0.05	10	5	51	<100
K294107		<5	0.23	<50	<0.05	90	<5	0.09	<5	<50	<10	<0.05	<10	<5	13	<100
K294108		<5	0.39	<50	0.26	170	<5	<0.05	<5	100	<10	<0.05	<10	<5	25	<100
K294109		<5	0.26	<50	<0.05	80	<5	0.08	<5	<50	10	<0.05	<10	<5	10	<100
K294110		<5	0.16	<50	<0.05	60	<5	0.10	<5	<50	<10	<0.05	<10	<5	14	<100
K294111		<5	0.51	<50	0.33	210	<5	0.08	6	190	<10	<0.05	<10	<5	31	<100
K294112		<5	0.43	<50	0.27	210	<5	0.06	9	240	10	<0.05	<10	<5	21	<100
K294113		<5	0.25	<50	0.11	190	<5	0.06	<5	<50	<10	<0.05	10	<5	10	<100
K294114		<5	0.14	<50	<0.05	90	<5	0.07	<5	50	<10	<0.05	<10	<5	9	<100
K294115		<5	0.21	<50	0.08	170	<5	0.08	6	60	10	<0.05	<10	<5	14	<100
K294116		<5	0.24	<50	<0.05	60	<5	0.06	<5	<50	<10	<0.05	<10	<5	70	<100
K294117		<5	0.28	<50	<0.05	60	<5	0.06	<5	<50	<10	<0.05	<10	<5	7	<100
K294118		<5	0.24	<50	<0.05	90	<5	0.06	<5	<50	<10	<0.05	<10	<5	8	<100
K294119		<5	0.29	<50	<0.05	60	<5	0.09	<5	<50	<10	<0.05	10	<5	14	<100
K294120		<5	0.83	<50	2.08	780	<5	0.06	60	1380	<10	<0.05	<10	8	27	<100
K294121		<5	0.22	<50	3.04	1720	69	<0.05	83	1070	20	0.87	<10	<5	199	<100
K294122		<5	0.37	<50	0.36	240	<5	0.07	<5	230	<10	0.06	<10	<5	28	<100
K294123		<5	0.10	<50	0.22	200	<5	0.07	<5	110	<10	<0.05	10	5	36	<100
K294124		5	0.11	<50	0.29	220	<5	0.07	<5	130	<10	<0.05	<10	5	27	<100
K294125		<5	0.09	<50	0.24	180	<5	0.06	<5	130	<10	<0.05	<10	5	22	<100
K294126		<5	0.17	<50	0.21	150	<5	0.09	<5	130	<10	<0.05	<10	<5	24	<100
K294127		<5	0.48	<50	0.62	300	<5	0.07	11	200	20	<0.05	<10	<5	36	<100
K294128		5	1.41	<50	1.91	600	<5	0.06	56	890	<10	0.06	<10	7	57	<100



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CERTIFICATE OF ANALYSIS WH17189976

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
K294093		<0.05	<50	<50	<5	<50	20
K294094		<0.05	<50	<50	<5	<50	10
K294095		<0.05	<50	<50	<5	<50	20
K294096		<0.05	<50	<50	<5	<50	10
K294097		<0.05	<50	<50	<5	<50	<10
K294098		<0.05	<50	<50	8	<50	30
K294099		0.05	<50	<50	24	<50	40
K294100		<0.05	<50	<50	<5	<50	10
K294101		<0.05	<50	<50	9	<50	10
K294102		<0.05	<50	<50	<5	<50	10
K294103		<0.05	<50	<50	<5	<50	<10
K294104		<0.05	<50	<50	<5	<50	<10
K294105		<0.05	<50	<50	<5	<50	<10
K294106		0.11	<50	<50	38	<50	30
K294107		<0.05	<50	<50	<5	<50	<10
K294108		<0.05	<50	<50	11	<50	10
K294109		<0.05	<50	<50	<5	<50	10
K294110		<0.05	<50	<50	<5	<50	10
K294111		<0.05	<50	<50	21	<50	50
K294112		<0.05	<50	<50	17	<50	20
K294113		<0.05	<50	<50	<5	<50	10
K294114		<0.05	<50	<50	<5	<50	<10
K294115		<0.05	<50	<50	<5	<50	20
K294116		<0.05	<50	<50	<5	<50	<10
K294117		<0.05	<50	<50	<5	<50	<10
K294118		<0.05	<50	<50	<5	<50	<10
K294119		<0.05	<50	<50	<5	<50	<10
K294120		0.29	<50	<50	85	<50	90
K294121		<0.05	<50	<50	177	<50	440
K294122		0.07	<50	<50	10	<50	20
K294123		<0.05	<50	<50	5	<50	10
K294124		<0.05	<50	<50	<5	<50	20
K294125		<0.05	<50	<50	6	<50	10
K294126		<0.05	<50	<50	<5	<50	10
K294127		0.08	<50	<50	14	<50	50
K294128		0.27	<50	<50	60	<50	70



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CERTIFICATE OF ANALYSIS WH17189976

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