



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: 13-OCT-2017
Account: DEVARC

CERTIFICATE WH17189980

Project: Dan Man

P.O. No.: 1006216-Batch 49

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
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
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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 WH17189980

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
K294129		3.36	<0.001	<1	1.96	<10	250	<5	<10	2.58	<5	10	112	18	2.89	<50
K294130		3.12	<0.001	<1	1.15	10	150	<5	<10	2.27	<5	<5	44	12	1.73	<50
K294131		3.06	<0.001	<1	0.86	<10	<50	<5	<10	1.41	<5	<5	17	11	1.46	<50
K294132		3.36	<0.001	<1	1.41	20	<50	<5	10	2.25	<5	<5	43	16	2.39	<50
K294133		3.42	<0.001	<1	2.17	<10	<50	<5	<10	2.24	<5	8	51	14	3.21	<50
K294134		3.26	<0.001	<1	2.08	<10	100	<5	<10	3.28	<5	17	101	17	2.85	<50
K294135		0.32	1.380	28	1.79	520	710	<5	10	0.28	32	8	14	141	5.34	<50
K294136		3.08	<0.001	<1	0.64	<10	<50	<5	10	0.97	<5	<5	14	5	0.86	<50
K294137		3.06	<0.001	<1	0.54	<10	<50	<5	10	1.69	<5	<5	11	<5	0.74	<50
K294138		3.32	<0.001	<1	0.53	10	<50	<5	<10	1.53	<5	<5	12	5	0.81	<50
K294139		3.22	<0.001	<1	0.54	10	50	<5	10	0.92	<5	<5	18	6	0.78	<50
K294140		3.24	<0.001	<1	0.42	10	<50	<5	<10	1.12	<5	<5	13	5	0.59	<50
K294141		2.64	<0.001	<1	2.47	20	210	<5	<10	3.90	<5	18	229	25	3.12	<50
K294142		3.22	<0.001	<1	0.66	10	<50	<5	10	1.15	<5	<5	15	<5	0.75	<50
K294143		3.50	<0.001	<1	0.83	10	<50	<5	<10	1.14	<5	5	18	<5	0.91	<50
K294144		3.38	<0.001	<1	0.90	<10	80	<5	<10	1.17	<5	<5	15	<5	0.91	<50
K294145		3.32	0.002	<1	1.35	<10	140	<5	<10	2.01	<5	5	31	7	1.86	<50
K294146		3.20	0.001	<1	0.82	<10	<50	<5	<10	1.65	<5	6	14	7	1.23	<50
K294147		3.30	<0.001	<1	1.11	<10	80	<5	10	2.19	<5	6	39	10	1.65	<50
K294148		3.38	<0.001	<1	1.55	<10	100	<5	<10	2.44	<5	5	17	5	2.35	<50
K294149		2.26	0.001	<1	<0.05	<10	<50	<5	<10	21.7	<5	<5	<5	10	0.46	<50
K294150		3.44	<0.001	<1	0.99	10	70	<5	10	1.37	<5	<5	13	8	2.06	<50
K294151		3.34	<0.001	<1	0.65	<10	<50	<5	<10	1.02	<5	<5	11	7	1.14	<50
K294152		3.46	<0.001	<1	1.33	<10	130	<5	<10	1.69	<5	6	32	8	2.12	<50
K294153		2.48	<0.001	<1	3.60	10	670	<5	<10	1.92	<5	21	58	5	5.25	<50
K294154		3.10	<0.001	<1	0.69	<10	200	<5	<10	1.81	<5	<5	9	<5	0.63	<50
K294155		2.90	<0.001	<1	0.69	<10	140	<5	<10	2.32	<5	6	9	5	0.72	<50
K294156		3.10	<0.001	<1	0.91	<10	80	<5	<10	1.72	<5	<5	20	16	1.54	<50
K294157		3.18	<0.001	<1	0.84	<10	<50	<5	10	1.03	<5	<5	12	14	1.64	<50
K294158		2.94	<0.001	<1	0.86	<10	<50	<5	<10	1.00	<5	6	13	14	1.94	<50
K294159		3.50	<0.001	<1	0.63	10	<50	<5	<10	0.86	<5	<5	12	13	1.12	<50
K294160		3.16	<0.001	<1	0.31	<10	<50	<5	10	0.67	<5	<5	10	7	0.68	<50
K294161		3.60	<0.001	<1	0.46	<10	<50	<5	<10	1.20	<5	<5	15	8	0.60	<50
K294162		3.32	<0.001	<1	0.62	<10	<50	<5	<10	1.42	<5	<5	13	10	1.35	<50
K294163		3.54	0.005	<1	1.70	<10	80	<5	<10	4.99	<5	12	78	11	3.10	<50
K294164		3.40	<0.001	<1	0.66	<10	<50	<5	<10	1.28	<5	<5	18	5	1.01	<50



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CERTIFICATE OF ANALYSIS WH17189980

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
K294129		<5	0.87	<50	1.57	640	<5	0.10	42	310	20	0.09	<10	11	47	<100
K294130		5	0.54	<50	0.80	350	<5	0.07	24	180	20	0.09	<10	<5	37	<100
K294131		<5	0.21	<50	0.29	220	<5	0.08	7	150	<10	0.05	<10	6	53	<100
K294132		5	0.15	<50	0.49	450	<5	0.06	13	230	<10	<0.05	<10	12	58	<100
K294133		<5	0.44	<50	1.03	600	<5	0.07	14	180	10	<0.05	<10	12	110	<100
K294134		<5	0.86	<50	1.80	730	<5	0.07	42	280	20	0.07	10	11	48	<100
K294135		11	0.64	<50	0.12	1060	7	<0.05	10	1630	3910	0.49	20	6	207	<100
K294136		<5	0.24	<50	0.15	160	<5	0.09	<5	240	10	<0.05	10	<5	16	<100
K294137		<5	0.27	<50	0.09	210	<5	0.07	<5	260	20	<0.05	<10	<5	16	<100
K294138		7	0.22	<50	0.08	180	<5	0.08	8	190	20	<0.05	<10	<5	16	<100
K294139		8	0.26	<50	0.11	140	<5	0.10	14	70	10	<0.05	10	<5	17	<100
K294140		<5	0.18	<50	0.05	150	<5	0.12	8	170	10	<0.05	<10	<5	21	<100
K294141		<5	1.49	<50	2.37	890	<5	<0.05	85	790	30	0.10	<10	12	43	<100
K294142		<5	0.32	<50	0.20	190	<5	0.09	7	260	10	0.05	20	<5	21	<100
K294143		<5	0.44	<50	0.35	180	<5	0.09	9	350	20	<0.05	10	<5	27	<100
K294144		<5	0.51	<50	0.35	170	<5	0.09	6	450	10	<0.05	10	<5	30	<100
K294145		6	0.86	<50	0.66	380	<5	0.08	14	750	10	0.06	<10	5	35	<100
K294146		11	0.42	<50	0.30	240	<5	0.08	8	230	20	0.06	<10	<5	39	<100
K294147		<5	0.50	<50	0.68	350	<5	0.09	14	390	10	0.11	<10	5	50	<100
K294148		5	0.54	<50	0.58	380	<5	0.07	<5	260	10	0.06	<10	8	82	<100
K294149		<5	<0.05	<50	12.30	210	<5	<0.05	<5	140	10	<0.05	<10	<5	31	<100
K294150		6	0.35	<50	0.42	280	<5	0.10	<5	310	10	0.11	<10	7	35	<100
K294151		8	0.16	<50	0.25	180	<5	0.12	7	160	10	<0.05	<10	5	27	<100
K294152		<5	0.68	<50	0.72	390	<5	0.11	12	480	<10	0.09	10	5	58	<100
K294153		<5	2.61	<50	2.99	920	<5	0.08	10	1200	<10	<0.05	<10	13	50	<100
K294154		<5	0.38	50	0.12	160	<5	0.08	<5	120	<10	<0.05	10	<5	31	<100
K294155		7	0.38	50	0.11	280	<5	0.09	<5	160	<10	0.10	<10	<5	59	<100
K294156		5	0.42	<50	0.37	360	<5	0.08	12	230	40	0.18	<10	<5	35	<100
K294157		<5	0.26	<50	0.39	270	<5	0.12	6	170	10	0.23	<10	6	22	<100
K294158		7	0.32	<50	0.39	290	<5	0.16	<5	190	10	0.50	10	5	27	<100
K294159		<5	0.17	<50	0.24	170	<5	0.11	7	90	10	0.14	<10	<5	25	<100
K294160		<5	0.09	<50	0.07	90	<5	0.10	<5	50	10	0.09	<10	<5	15	<100
K294161		5	0.21	<50	0.06	120	<5	0.10	<5	50	20	0.06	10	<5	17	<100
K294162		<5	0.25	<50	0.21	230	<5	0.09	5	170	10	0.09	<10	5	32	<100
K294163		6	0.92	<50	1.01	760	<5	0.06	28	1040	10	0.15	10	10	186	<100
K294164		<5	0.24	<50	0.15	220	<5	0.08	<5	310	10	<0.05	<10	<5	19	<100



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CERTIFICATE OF ANALYSIS WH17189980

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
K294129		0.14	<50	<50	84	<50	50
K294130		0.08	<50	<50	23	<50	20
K294131		0.05	<50	<50	9	<50	10
K294132		<0.05	<50	<50	31	<50	30
K294133		0.08	<50	<50	42	<50	50
K294134		0.12	<50	<50	52	<50	60
K294135		<0.05	<50	<50	71	<50	2460
K294136		<0.05	<50	<50	10	<50	10
K294137		<0.05	<50	<50	5	<50	10
K294138		<0.05	<50	<50	6	<50	10
K294139		<0.05	<50	<50	7	<50	10
K294140		<0.05	<50	<50	<5	<50	10
K294141		0.11	<50	<50	82	<50	70
K294142		<0.05	<50	<50	<5	<50	10
K294143		0.05	<50	<50	10	<50	20
K294144		0.09	<50	<50	11	<50	20
K294145		0.08	<50	<50	28	<50	30
K294146		<0.05	<50	<50	7	<50	20
K294147		<0.05	<50	<50	23	<50	20
K294148		0.06	<50	<50	18	<50	20
K294149		<0.05	<50	<50	<5	<50	20
K294150		0.06	<50	<50	17	<50	20
K294151		<0.05	<50	<50	5	<50	10
K294152		0.15	<50	<50	25	<50	30
K294153		0.40	<50	<50	116	<50	80
K294154		<0.05	<50	<50	<5	<50	<10
K294155		<0.05	<50	<50	6	<50	10
K294156		<0.05	<50	<50	11	<50	90
K294157		0.05	<50	<50	11	<50	30
K294158		0.06	<50	<50	8	<50	30
K294159		<0.05	<50	<50	7	<50	40
K294160		<0.05	<50	<50	<5	<50	<10
K294161		<0.05	<50	<50	<5	<50	20
K294162		<0.05	<50	<50	6	<50	20
K294163		0.07	<50	<50	45	<50	60
K294164		<0.05	<50	<50	12	<50	20



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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

CRU-QC

LOG-22

LOG-23

ME-ICP41a

PUL-32

PUL-QC

SPL-21

WEI-21