



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: 17-OCT-2017  
Account: DEVARC

**CERTIFICATE WH17189959**

Project: Dan Man

P.O. No.: 1006216-Batch 41

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**  
**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 WH17189959**

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
W636941		3.28	<0.001	<1	0.33	<10	<50	<5	<10	0.59	<5	<5	13	11	0.75	<50
W636942		2.92	<0.001	<1	0.36	<10	<50	<5	10	0.59	<5	<5	14	6	0.66	<50
W636943		2.92	<0.001	<1	0.74	<10	80	<5	<10	1.30	<5	<5	12	5	1.21	<50
W636944		2.60	<0.001	<1	0.49	10	<50	<5	<10	1.08	<5	<5	17	5	0.95	<50
W636945		3.06	<0.001	<1	0.49	<10	<50	<5	<10	0.75	<5	<5	14	5	0.91	<50
W636946		3.30	<0.001	<1	0.46	<10	<50	<5	<10	0.76	<5	<5	15	<5	0.75	<50
W636947		2.96	0.001	<1	0.42	10	<50	<5	<10	0.82	<5	<5	15	<5	0.82	<50
W636948		3.26	<0.001	<1	0.47	<10	<50	<5	<10	0.73	<5	<5	17	<5	0.84	<50
W636949		3.28	<0.001	<1	0.48	10	<50	<5	<10	0.68	<5	<5	17	6	0.79	<50
W636950		2.82	<0.001	<1	1.39	<10	120	<5	<10	1.88	<5	<5	22	12	2.47	<50
W636951		3.22	<0.001	<1	1.27	10	80	<5	<10	1.01	<5	<5	44	6	1.94	<50
W636952		3.40	<0.001	<1	2.38	<10	<50	<5	<10	2.18	<5	17	227	19	2.70	<50
W636953		0.30	1.440	29	1.12	530	630	<5	<10	0.27	31	5	12	137	5.37	<50
W636954		3.30	<0.001	<1	1.00	10	50	<5	<10	1.20	<5	<5	27	<5	1.48	<50
W636955		3.28	0.001	<1	0.32	10	<50	<5	<10	0.72	<5	<5	17	<5	0.67	<50
W636956		3.36	<0.001	<1	0.35	10	<50	<5	<10	0.49	<5	<5	15	<5	0.72	<50
W636957		3.16	<0.001	<1	0.32	<10	<50	<5	<10	0.66	<5	<5	17	<5	0.55	<50
W636958		3.72	0.001	<1	0.36	<10	<50	<5	<10	0.52	<5	<5	13	<5	0.59	<50
W636959		3.12	<0.001	<1	0.31	20	<50	<5	<10	0.60	<5	<5	16	6	0.66	<50
W636960		3.10	<0.001	<1	0.24	10	<50	<5	<10	0.49	<5	<5	20	6	0.72	<50
W636961		2.88	<0.001	<1	0.28	<10	<50	<5	<10	0.38	<5	<5	16	5	0.57	<50
W636962		3.54	<0.001	<1	0.63	<10	<50	<5	<10	0.78	<5	<5	20	<5	1.02	<50
W636963		3.06	<0.001	<1	0.73	<10	<50	<5	<10	1.22	<5	<5	21	6	1.10	<50
W636964		2.20	0.004	<1	<0.05	10	<50	<5	<10	20.6	<5	<5	<5	<5	0.44	<50
W636965		3.50	<0.001	<1	0.44	<10	<50	<5	<10	0.66	<5	<5	17	5	0.81	<50
W636966		3.28	0.002	<1	0.67	20	<50	<5	<10	1.37	<5	<5	16	<5	0.99	<50
W636967		3.34	<0.001	<1	0.51	<10	<50	<5	<10	0.75	<5	<5	14	<5	0.82	<50
W636968		2.74	<0.001	<1	0.78	<10	70	<5	<10	0.80	<5	<5	26	6	0.84	<50
W636969		3.60	<0.001	<1	0.77	10	60	<5	<10	0.58	<5	<5	23	5	1.02	<50
W636970		2.94	<0.001	<1	1.19	20	70	<5	<10	1.18	<5	7	19	9	1.66	<50
W636971		3.26	<0.001	<1	0.42	<10	<50	<5	<10	0.54	<5	<5	14	<5	0.76	<50
W636972		3.70	<0.001	<1	0.46	30	<50	<5	<10	0.61	<5	<5	17	5	0.74	<50
W636973		3.38	<0.001	<1	0.55	<10	<50	<5	<10	0.70	<5	<5	16	<5	1.04	<50
W636974		3.62	<0.001	<1	1.21	20	60	<5	<10	1.18	<5	<5	46	10	1.92	<50
W636975		3.54	<0.001	<1	2.55	<10	300	<5	<10	2.50	<5	18	107	23	3.34	<50
W636976		3.42	<0.001	<1	1.16	<10	60	<5	<10	1.27	<5	6	34	11	1.81	<50



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**CERTIFICATE OF ANALYSIS WH17189959**

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
W636941		<5	0.19	<50	<0.05	130	<5	<0.05	10	<50	20	<0.05	<10	<5	8	<100
W636942		<5	0.24	<50	0.06	140	8	<0.05	6	<50	10	<0.05	<10	<5	9	<100
W636943		<5	0.50	<50	0.37	300	<5	0.06	<5	220	20	<0.05	<10	<5	13	<100
W636944		8	0.29	<50	0.19	210	<5	0.06	<5	170	20	<0.05	<10	<5	10	<100
W636945		<5	0.21	<50	0.16	190	<5	0.05	<5	140	10	<0.05	<10	<5	33	<100
W636946		<5	0.18	<50	0.10	120	5	0.06	<5	50	10	<0.05	<10	<5	31	<100
W636947		<5	0.17	<50	0.13	130	<5	0.06	<5	80	10	<0.05	<10	<5	24	<100
W636948		<5	0.16	<50	0.13	120	<5	0.06	<5	90	10	<0.05	<10	<5	27	<100
W636949		<5	0.20	<50	0.14	140	5	0.07	5	110	10	<0.05	10	<5	27	<100
W636950		<5	0.87	<50	0.98	620	<5	0.05	21	450	10	<0.05	10	<5	26	<100
W636951		<5	0.66	<50	0.87	270	<5	0.06	28	340	<10	<0.05	<10	<5	43	<100
W636952		6	0.48	<50	2.42	460	<5	<0.05	170	400	10	<0.05	<10	8	70	<100
W636953		7	0.49	<50	0.10	1070	8	<0.05	6	1370	3300	0.36	20	<5	153	<100
W636954		<5	0.54	<50	0.56	230	<5	0.06	13	310	20	<0.05	<10	<5	42	<100
W636955		5	0.14	<50	0.07	110	<5	0.07	<5	80	10	<0.05	<10	<5	18	<100
W636956		<5	0.17	<50	0.05	100	<5	0.07	<5	<50	10	<0.05	<10	<5	9	<100
W636957		<5	0.15	<50	<0.05	90	<5	0.07	<5	<50	<10	<0.05	<10	<5	20	<100
W636958		<5	0.12	<50	0.07	90	<5	0.09	<5	<50	10	<0.05	<10	<5	21	<100
W636959		<5	0.09	<50	0.05	100	<5	0.09	8	<50	10	<0.05	<10	<5	22	<100
W636960		<5	0.11	<50	<0.05	100	<5	0.06	6	<50	<10	<0.05	<10	<5	12	<100
W636961		5	0.07	<50	<0.05	70	<5	0.09	<5	50	10	<0.05	<10	<5	19	<100
W636962		<5	0.31	<50	0.36	190	<5	0.08	9	70	10	<0.05	<10	<5	19	<100
W636963		<5	0.41	<50	0.36	210	<5	<0.05	10	180	10	<0.05	<10	<5	30	<100
W636964		<5	<0.05	<50	11.55	190	<5	<0.05	<5	140	<10	<0.05	<10	<5	31	<100
W636965		<5	0.16	<50	0.16	140	<5	0.05	<5	<50	10	<0.05	<10	<5	22	<100
W636966		<5	0.36	<50	0.26	230	5	<0.05	8	130	<10	<0.05	<10	<5	37	<100
W636967		<5	0.25	<50	0.15	140	<5	0.05	5	<50	<10	<0.05	10	<5	21	<100
W636968		<5	0.42	<50	0.41	170	<5	<0.05	14	100	10	<0.05	<10	<5	23	<100
W636969		<5	0.41	<50	0.39	170	<5	0.06	10	160	10	<0.05	10	<5	24	<100
W636970		5	0.69	<50	0.72	300	<5	<0.05	<5	420	30	<0.05	<10	<5	48	<100
W636971		<5	0.12	<50	0.12	110	<5	0.07	7	60	10	<0.05	<10	<5	23	<100
W636972		<5	0.19	<50	0.14	130	<5	0.07	5	110	10	<0.05	<10	<5	25	<100
W636973		<5	0.22	<50	0.23	170	5	0.05	11	90	<10	<0.05	<10	<5	26	<100
W636974		<5	0.71	<50	0.91	330	<5	0.05	16	390	10	<0.05	<10	<5	40	<100
W636975		<5	1.60	<50	2.29	700	<5	<0.05	56	1260	<10	<0.05	<10	<5	83	<100
W636976		6	0.66	<50	0.73	330	<5	<0.05	15	290	<10	<0.05	<10	<5	39	<100



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**CERTIFICATE OF ANALYSIS WH17189959**

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
W636941		<0.05	<50	<50	<5	<50	10
W636942		<0.05	<50	<50	<5	<50	10
W636943		<0.05	<50	<50	16	<50	10
W636944		<0.05	<50	<50	10	<50	10
W636945		<0.05	<50	<50	6	<50	10
W636946		<0.05	<50	<50	7	<50	<10
W636947		<0.05	<50	<50	5	<50	10
W636948		<0.05	<50	<50	6	<50	<10
W636949		<0.05	<50	<50	5	<50	10
W636950		0.14	<50	<50	36	<50	40
W636951		0.13	<50	<50	30	<50	20
W636952		0.12	<50	<50	64	<50	30
W636953		<0.05	<50	<50	59	<50	2330
W636954		0.10	<50	<50	17	<50	10
W636955		<0.05	<50	<50	<5	<50	<10
W636956		<0.05	<50	<50	<5	<50	<10
W636957		<0.05	<50	<50	<5	<50	<10
W636958		<0.05	<50	<50	<5	<50	<10
W636959		<0.05	<50	<50	<5	<50	<10
W636960		<0.05	<50	<50	<5	<50	<10
W636961		<0.05	<50	<50	<5	<50	20
W636962		<0.05	<50	<50	14	<50	10
W636963		0.06	<50	<50	10	<50	10
W636964		<0.05	<50	<50	<5	<50	10
W636965		<0.05	<50	<50	<5	<50	10
W636966		<0.05	<50	<50	7	<50	10
W636967		<0.05	<50	<50	5	<50	10
W636968		<0.05	<50	<50	12	<50	10
W636969		0.05	<50	<50	14	<50	20
W636970		0.08	<50	<50	32	<50	60
W636971		<0.05	<50	<50	<5	<50	10
W636972		<0.05	<50	<50	5	<50	10
W636973		<0.05	<50	<50	10	<50	10
W636974		0.09	<50	<50	33	<50	20
W636975		0.36	<50	<50	82	<50	60
W636976		0.07	<50	<50	30	<50	20



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**CERTIFICATE OF ANALYSIS WH17189959**

**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	