



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: 4-OCT-2017  
Account: DEVARC

**CERTIFICATE WH17186531**

Project: DAN MAN

P.O. No.: 1006216-Batch 29

This report is for 36 Rock samples submitted to our lab in Whitehorse, YT, Canada on 1-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 WH17186531**

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
W636509		2.50	<0.001	<1	0.35	<10	<50	<5	<10	0.84	<5	<5	14	14	0.98	<50
W636510		2.98	<0.001	1	0.23	<10	<50	<5	<10	0.11	<5	<5	14	18	0.66	<50
W636511		2.90	0.001	<1	3.01	<10	590	<5	<10	2.97	<5	20	75	13	5.04	<50
W636512		2.76	0.001	<1	2.62	<10	530	<5	<10	3.01	<5	23	77	15	4.14	<50
W636513		2.62	<0.001	<1	3.16	<10	670	<5	10	4.04	<5	27	144	34	4.73	<50
W636514		2.58	<0.001	<1	2.83	10	610	<5	<10	3.73	<5	27	106	22	4.37	<50
W636515		3.16	<0.001	1	1.16	<10	200	<5	<10	0.69	<5	8	31	9	2.08	<50
W636516		2.38	<0.001	<1	<0.05	<10	<50	<5	<10	20.4	<5	<5	<5	<5	0.44	<50
W636517		2.52	<0.001	<1	0.26	<10	<50	<5	<10	0.06	<5	<5	12	6	0.68	<50
W636518		3.12	<0.001	1	0.24	<10	<50	<5	<10	0.21	<5	<5	12	7	0.65	<50
W636519		2.96	<0.001	<1	0.60	<10	110	<5	<10	5.78	<5	<5	24	11	2.29	<50
W636520		2.66	<0.001	1	0.83	<10	<50	<5	<10	0.84	<5	<5	23	13	1.16	<50
W636521		2.64	0.001	1	0.48	10	<50	<5	<10	2.01	<5	<5	10	6	1.36	<50
W636522		2.64	<0.001	<1	0.45	<10	<50	<5	<10	0.22	<5	<5	21	<5	1.01	<50
W636523		2.26	<0.001	1	2.70	10	470	<5	<10	0.60	<5	25	10	17	5.42	<50
W636524		2.98	<0.001	1	0.55	<10	60	<5	<10	1.23	<5	<5	9	6	1.22	<50
W636525		3.20	<0.001	<1	0.28	<10	<50	<5	<10	<0.05	<5	<5	8	<5	0.45	<50
W636526		3.52	<0.001	1	0.38	<10	<50	<5	<10	0.06	<5	<5	9	<5	0.67	<50
W636527		3.18	<0.001	<1	0.24	<10	<50	<5	<10	<0.05	<5	<5	13	9	0.84	<50
W636528		2.82	<0.001	<1	0.25	<10	<50	<5	<10	<0.05	<5	<5	11	8	0.53	<50
W636529		2.64	<0.001	<1	0.28	<10	<50	<5	<10	<0.05	<5	<5	11	6	0.43	<50
W636530		2.38	<0.001	1	0.37	<10	<50	<5	<10	<0.05	<5	<5	10	5	0.52	<50
W636531		2.70	<0.001	<1	0.30	<10	<50	<5	10	0.10	<5	<5	10	<5	0.54	<50
W636532		2.44	0.003	<1	2.47	<10	280	<5	<10	2.38	<5	18	7	23	4.79	<50
W636533		2.86	<0.001	1	0.35	<10	<50	<5	10	<0.05	<5	<5	9	<5	0.52	<50
W636534		3.02	<0.001	<1	0.25	<10	<50	<5	<10	<0.05	<5	<5	13	6	0.50	<50
W636535		3.02	<0.001	<1	0.23	<10	<50	<5	<10	0.05	<5	<5	13	<5	0.59	<50
W636536		2.90	<0.001	1	0.26	<10	<50	<5	<10	<0.05	<5	<5	14	7	0.59	<50
W636537		2.54	<0.001	1	0.23	<10	<50	<5	<10	<0.05	<5	<5	12	8	0.58	<50
W636538		2.92	<0.001	<1	0.36	<10	<50	<5	<10	0.10	<5	<5	21	7	1.17	<50
W636539		2.52	0.002	1	0.74	10	70	<5	10	0.29	<5	7	37	5	2.36	<50
W636540		3.24	<0.001	1	0.28	<10	<50	<5	10	<0.05	<5	<5	12	<5	0.54	<50
W636541		2.66	0.001	1	1.01	<10	110	<5	<10	0.35	<5	5	30	8	2.00	<50
W636542		3.04	<0.001	1	0.24	<10	<50	<5	<10	<0.05	<5	<5	17	10	0.80	<50
W636543		2.96	<0.001	<1	0.25	<10	<50	<5	<10	0.07	<5	<5	12	5	0.67	<50
W636544		0.28	1.155	1	0.61	230	110	<5	<10	17.65	<5	<5	29	79	2.49	<50



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**CERTIFICATE OF ANALYSIS WH17186531**

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
W636509		<5	0.18	<50	0.11	160	<5	<0.05	<5	70	20	<0.05	10	<5	10	<100
W636510		<5	0.08	<50	<0.05	90	<5	0.05	13	<50	20	<0.05	<10	<5	8	<100
W636511		<5	2.01	<50	2.26	990	<5	<0.05	15	1020	10	<0.05	<10	17	44	<100
W636512		<5	1.75	<50	2.28	790	<5	<0.05	19	840	20	<0.05	<10	9	49	<100
W636513		<5	2.06	<50	3.18	1100	<5	<0.05	65	1140	10	0.14	<10	12	73	<100
W636514		<5	1.67	<50	3.06	850	<5	<0.05	28	1090	10	0.11	10	8	80	<100
W636515		<5	0.61	<50	0.83	510	<5	<0.05	6	410	10	<0.05	<10	5	21	<100
W636516		<5	<0.05	<50	11.45	190	<5	<0.05	5	180	10	<0.05	20	<5	48	<100
W636517		<5	0.15	<50	0.07	70	<5	<0.05	<5	60	20	<0.05	20	<5	10	<100
W636518		<5	0.14	<50	0.06	90	<5	<0.05	5	60	20	<0.05	<10	<5	14	<100
W636519		5	0.21	<50	0.29	630	<5	<0.05	14	320	40	<0.05	<10	6	65	<100
W636520		<5	0.23	<50	0.36	190	<5	<0.05	8	110	20	<0.05	10	5	32	<100
W636521		<5	0.12	<50	0.23	310	<5	<0.05	7	70	10	<0.05	<10	<5	33	<100
W636522		<5	0.17	<50	0.21	170	<5	<0.05	7	90	10	<0.05	10	<5	17	<100
W636523		<5	1.55	<50	2.12	870	<5	<0.05	12	1270	20	<0.05	<10	18	39	<100
W636524		<5	0.28	<50	0.24	250	<5	<0.05	<5	210	10	<0.05	10	<5	20	<100
W636525		<5	0.08	<50	0.08	60	<5	<0.05	<5	<50	10	<0.05	10	<5	8	<100
W636526		7	0.06	<50	0.16	90	<5	<0.05	<5	<50	10	<0.05	<10	<5	11	<100
W636527		<5	0.05	<50	0.06	160	<5	<0.05	<5	<50	10	<0.05	10	5	7	<100
W636528		<5	0.06	<50	0.08	100	<5	<0.05	<5	<50	10	<0.05	<10	<5	6	<100
W636529		<5	0.06	<50	0.08	60	<5	<0.05	<5	<50	20	<0.05	10	<5	7	<100
W636530		<5	0.11	<50	0.06	90	<5	<0.05	<5	<50	10	<0.05	<10	<5	7	<100
W636531		7	0.06	<50	0.12	100	<5	<0.05	<5	50	20	<0.05	10	<5	15	<100
W636532		5	1.42	<50	1.85	940	<5	<0.05	9	1460	20	<0.05	20	14	41	<100
W636533		<5	0.10	<50	0.13	60	<5	<0.05	<5	60	10	<0.05	10	<5	13	<100
W636534		<5	0.07	<50	0.08	70	<5	<0.05	<5	50	20	<0.05	10	<5	5	<100
W636535		<5	0.05	<50	0.07	100	<5	<0.05	<5	<50	10	<0.05	10	<5	7	<100
W636536		<5	0.06	<50	0.07	80	<5	0.05	<5	60	<10	<0.05	10	<5	8	<100
W636537		<5	0.07	<50	<0.05	60	<5	0.05	<5	80	10	<0.05	10	<5	6	<100
W636538		<5	0.17	<50	0.12	140	<5	<0.05	5	350	10	<0.05	<10	<5	13	<100
W636539		<5	0.27	<50	0.21	460	<5	<0.05	14	1200	10	<0.05	10	6	18	<100
W636540		<5	0.06	<50	0.07	130	<5	0.06	<5	60	<10	<0.05	<10	<5	8	<100
W636541		<5	0.64	<50	0.54	500	<5	<0.05	19	970	10	<0.05	<10	<5	19	<100
W636542		<5	0.13	<50	0.06	170	<5	<0.05	<5	90	10	<0.05	10	<5	10	<100
W636543		<5	0.06	<50	0.10	130	<5	0.05	<5	70	10	<0.05	20	<5	11	<100
W636544		<5	0.21	<50	3.10	1700	72	<0.05	78	1100	20	0.86	20	<5	193	<100



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**CERTIFICATE OF ANALYSIS WH17186531**

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
W636509		<0.05	<50	<50	6	<50	10
W636510		<0.05	<50	<50	<5	<50	20
W636511		0.23	<50	<50	125	<50	80
W636512		0.25	<50	<50	94	<50	60
W636513		0.26	<50	<50	113	<50	80
W636514		0.23	<50	<50	99	<50	70
W636515		0.08	<50	<50	38	<50	30
W636516		<0.05	<50	<50	<5	<50	10
W636517		<0.05	<50	<50	<5	<50	<10
W636518		<0.05	<50	<50	<5	<50	40
W636519		<0.05	<50	<50	28	<50	100
W636520		<0.05	<50	<50	17	<50	10
W636521		<0.05	<50	<50	6	<50	20
W636522		<0.05	<50	<50	8	<50	10
W636523		0.26	<50	<50	155	<50	70
W636524		<0.05	<50	<50	19	<50	10
W636525		<0.05	<50	<50	<5	<50	<10
W636526		<0.05	<50	<50	<5	<50	<10
W636527		<0.05	<50	<50	<5	<50	10
W636528		<0.05	<50	<50	<5	<50	30
W636529		<0.05	<50	<50	<5	<50	20
W636530		<0.05	<50	<50	<5	<50	<10
W636531		<0.05	<50	<50	<5	<50	20
W636532		0.22	<50	<50	100	<50	70
W636533		<0.05	<50	<50	<5	<50	<10
W636534		<0.05	<50	<50	<5	<50	<10
W636535		<0.05	<50	<50	<5	<50	<10
W636536		<0.05	<50	<50	<5	<50	<10
W636537		<0.05	<50	<50	<5	<50	<10
W636538		<0.05	<50	<50	8	<50	20
W636539		<0.05	<50	<50	24	<50	60
W636540		<0.05	<50	<50	<5	<50	<10
W636541		0.06	<50	<50	16	<50	30
W636542		<0.05	<50	<50	5	<50	<10
W636543		<0.05	<50	<50	<5	<50	<10
W636544		<0.05	<50	<50	178	<50	420



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**CERTIFICATE OF ANALYSIS WH17186531**

**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	