



ALS Canada Ltd.

2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
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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: 10-OCT-2017  
Account: DEVARC

**CERTIFICATE WH17183124**

Project: Dan Man

P.O. No.: 1006216-Batch 20

This report is for 36 Rock samples submitted to our lab in Whitehorse, YT, Canada on 29-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-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 WH17183124**

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
W636185		2.60	0.001	<1	0.19	<10	<50	<5	<10	1.14	<5	<5	8	<5	1.34	<50
W636186		2.10	0.057	<1	0.23	30	<50	<5	<10	0.11	<5	<5	7	<5	0.85	<50
W636187		2.26	0.097	<1	0.35	30	60	<5	<10	0.11	<5	<5	11	<5	1.46	<50
W636188		2.22	0.149	<1	0.36	50	50	<5	<10	0.10	<5	<5	13	<5	1.75	<50
W636189		2.24	0.174	<1	0.20	30	<50	<5	<10	<0.05	<5	<5	7	<5	0.65	<50
W636190		2.14	0.476	<1	0.16	140	<50	<5	<10	<0.05	<5	<5	8	<5	0.93	<50
W636191		0.32	1.165	<1	0.53	250	110	<5	<10	17.25	<5	<5	25	69	2.48	<50
W636192		1.96	0.580	<1	0.50	140	<50	<5	<10	0.06	<5	<5	9	<5	1.14	<50
W636193		2.60	0.374	<1	0.25	90	<50	<5	<10	0.07	<5	<5	8	<5	1.17	<50
W636194		2.30	0.357	<1	0.18	90	<50	<5	<10	<0.05	<5	<5	9	<5	0.81	<50
W636195		2.46	0.440	<1	0.24	130	<50	<5	<10	<0.05	<5	<5	8	<5	0.95	<50
W636196		2.32	0.248	<1	0.18	50	<50	<5	<10	<0.05	<5	<5	11	<5	0.55	<50
W636197		2.76	0.337	<1	0.18	70	<50	<5	<10	<0.05	<5	<5	9	<5	0.71	<50
W636198		2.86	0.432	<1	0.21	100	60	<5	<10	<0.05	<5	<5	11	<5	0.78	<50
W636199		2.18	0.905	<1	0.32	120	50	<5	<10	0.06	<5	<5	10	<5	1.26	<50
W636200		2.14	1.160	<1	0.35	130	<50	<5	<10	<0.05	<5	<5	10	<5	0.97	<50
W636201		2.34	0.508	<1	0.32	80	<50	<5	<10	0.05	<5	<5	5	<5	0.92	<50
W636202		2.12	0.535	<1	0.31	70	<50	<5	<10	0.06	<5	<5	7	<5	0.91	<50
W636203		2.50	0.136	<1	0.37	70	80	<5	<10	0.09	<5	<5	10	<5	1.20	<50
W636204		2.18	0.222	<1	0.44	60	60	<5	<10	0.07	<5	<5	8	<5	0.87	<50
W636205		2.56	0.003	<1	0.43	<10	150	<5	<10	1.53	<5	<5	6	<5	0.93	<50
W636206		2.30	0.070	<1	0.49	80	110	<5	<10	1.39	<5	<5	6	<5	0.80	<50
W636207		2.10	0.063	<1	0.52	30	50	<5	<10	0.11	<5	<5	5	<5	1.13	<50
W636208		1.80	0.058	<1	0.43	20	<50	<5	<10	0.07	<5	<5	6	<5	0.90	<50
W636209		2.02	0.056	<1	0.43	10	<50	<5	<10	0.08	<5	<5	7	<5	0.94	<50
W636210		1.90	0.021	<1	0.44	10	<50	<5	<10	0.08	<5	<5	7	<5	0.97	<50
W636211		2.32	0.001	<1	<0.05	<10	<50	<5	<10	20.2	<5	<5	<5	<5	0.46	<50
W636212		2.26	0.011	1	0.51	20	<50	<5	<10	0.12	<5	<5	8	5	1.04	<50
W636213		2.34	0.010	<1	0.64	<10	50	<5	<10	0.09	<5	<5	5	<5	0.80	<50
W636214		2.30	0.341	<1	0.79	120	50	<5	<10	0.14	<5	5	7	<5	1.11	<50
W636215		2.14	0.134	<1	0.74	180	90	<5	<10	0.07	<5	<5	8	<5	1.30	<50
W636216		1.86	0.032	<1	2.32	50	100	<5	<10	2.53	<5	15	105	34	2.63	<50
W636217		2.04	0.011	1	0.68	30	50	<5	50	0.29	<5	<5	10	5	1.18	<50
W636218		1.98	0.033	<1	0.53	20	60	<5	<10	0.10	<5	5	9	6	1.21	<50
W636219		2.60	0.179	<1	0.53	30	<50	<5	10	0.08	<5	<5	11	7	1.18	<50
W636220		2.34	0.023	<1	2.95	10	590	6	<10	5.07	<5	22	146	34	3.71	<50



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**CERTIFICATE OF ANALYSIS WH17183124**

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
W636185		<5	0.13	<50	<0.05	160	<5	<0.05	<5	50	10	<0.05	<10	<5	33	<100
W636186		<5	0.08	<50	0.05	50	<5	<0.05	5	70	10	<0.05	10	<5	32	<100
W636187		<5	0.13	<50	0.05	260	<5	0.05	15	240	30	<0.05	10	<5	34	<100
W636188		<5	0.10	<50	0.07	290	<5	0.06	18	220	10	<0.05	10	<5	22	<100
W636189		<5	0.06	<50	<0.05	50	<5	0.07	<5	60	<10	<0.05	<10	<5	9	<100
W636190		<5	0.11	<50	<0.05	30	<5	0.05	<5	60	10	0.07	<10	<5	12	<100
W636191		<5	0.20	<50	3.00	1700	70	<0.05	84	1060	20	0.88	20	<5	192	<100
W636192		<5	0.14	<50	<0.05	60	<5	<0.05	<5	130	10	<0.05	10	<5	30	<100
W636193		<5	0.10	<50	<0.05	140	<5	<0.05	7	90	10	<0.05	<10	<5	14	<100
W636194		<5	0.09	<50	<0.05	50	<5	0.06	<5	<50	10	<0.05	<10	<5	9	<100
W636195		<5	0.10	<50	<0.05	40	<5	0.07	<5	50	10	<0.05	10	<5	8	<100
W636196		<5	0.10	<50	<0.05	40	<5	0.06	6	<50	10	<0.05	<10	<5	8	<100
W636197		<5	0.11	<50	<0.05	30	<5	0.07	5	50	10	<0.05	10	<5	10	<100
W636198		<5	0.14	<50	<0.05	50	<5	0.08	7	60	10	<0.05	<10	<5	15	<100
W636199		<5	0.11	<50	<0.05	230	<5	0.05	<5	110	10	<0.05	<10	<5	19	<100
W636200		<5	0.14	<50	<0.05	80	<5	<0.05	7	90	20	<0.05	10	<5	24	<100
W636201		<5	0.07	<50	<0.05	200	<5	0.09	7	100	10	<0.05	10	<5	26	<100
W636202		<5	0.06	<50	<0.05	210	<5	0.08	<5	90	10	<0.05	10	<5	21	<100
W636203		<5	0.16	60	<0.05	320	<5	<0.05	6	200	10	<0.05	<10	<5	43	<100
W636204		5	0.19	60	<0.05	190	<5	<0.05	6	150	20	<0.05	<10	<5	32	<100
W636205		<5	0.28	50	<0.05	250	<5	<0.05	<5	290	10	<0.05	10	<5	63	<100
W636206		<5	0.32	<50	<0.05	220	<5	<0.05	6	260	20	<0.05	10	<5	58	<100
W636207		<5	0.15	<50	0.07	210	<5	<0.05	6	220	10	<0.05	10	<5	51	<100
W636208		<5	0.11	<50	0.05	110	<5	<0.05	6	110	10	<0.05	<10	<5	59	<100
W636209		<5	0.11	<50	0.05	120	<5	<0.05	7	100	10	<0.05	10	<5	52	<100
W636210		<5	0.09	<50	0.06	110	<5	0.08	7	110	<10	<0.05	<10	<5	51	<100
W636211		<5	<0.05	<50	11.20	210	<5	<0.05	7	180	<10	<0.05	<10	<5	36	<100
W636212		<5	0.11	<50	0.08	150	<5	<0.05	8	110	10	0.06	<10	<5	57	<100
W636213		<5	0.09	<50	0.08	160	<5	<0.05	<5	90	<10	0.06	<10	<5	60	<100
W636214		<5	0.15	<50	0.09	170	<5	<0.05	<5	120	10	<0.05	<10	<5	102	<100
W636215		<5	0.11	<50	0.05	420	<5	<0.05	10	160	20	<0.05	<10	<5	121	<100
W636216		5	0.31	<50	0.63	540	<5	<0.05	31	660	30	<0.05	<10	15	71	<100
W636217		<5	0.15	<50	0.08	290	<5	<0.05	6	120	10	<0.05	<10	<5	41	<100
W636218		<5	0.18	<50	0.07	310	<5	<0.05	6	90	30	<0.05	<10	<5	29	<100
W636219		<5	0.17	<50	0.06	90	<5	<0.05	8	80	20	<0.05	<10	<5	21	<100
W636220		<5	1.18	<50	1.59	500	<5	<0.05	52	580	20	<0.05	10	17	103	<100



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**CERTIFICATE OF ANALYSIS WH17183124**

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
W636185		<0.05	<50	<50	11	<50	<10
W636186		<0.05	<50	<50	<5	<50	<10
W636187		<0.05	<50	<50	<5	<50	<10
W636188		<0.05	<50	<50	9	<50	<10
W636189		<0.05	<50	<50	<5	<50	<10
W636190		<0.05	<50	<50	<5	<50	<10
W636191		<0.05	<50	<50	170	<50	410
W636192		<0.05	<50	<50	5	<50	<10
W636193		<0.05	<50	<50	<5	<50	<10
W636194		<0.05	<50	<50	<5	<50	<10
W636195		<0.05	<50	<50	<5	<50	<10
W636196		<0.05	<50	<50	<5	<50	<10
W636197		<0.05	<50	<50	<5	<50	<10
W636198		<0.05	<50	<50	<5	<50	<10
W636199		<0.05	<50	<50	<5	<50	<10
W636200		<0.05	<50	<50	<5	<50	<10
W636201		<0.05	<50	<50	<5	<50	<10
W636202		<0.05	<50	<50	<5	<50	<10
W636203		<0.05	<50	<50	<5	<50	<10
W636204		<0.05	<50	<50	<5	<50	<10
W636205		<0.05	<50	<50	<5	<50	<10
W636206		<0.05	<50	<50	<5	<50	<10
W636207		<0.05	<50	<50	<5	<50	<10
W636208		<0.05	<50	<50	<5	<50	<10
W636209		<0.05	<50	<50	<5	<50	<10
W636210		<0.05	<50	<50	<5	<50	<10
W636211		<0.05	<50	<50	<5	<50	<10
W636212		<0.05	<50	<50	<5	<50	20
W636213		<0.05	<50	<50	<5	<50	10
W636214		<0.05	<50	<50	<5	<50	10
W636215		<0.05	<50	<50	5	<50	20
W636216		<0.05	<50	<50	71	<50	40
W636217		<0.05	<50	<50	6	<50	20
W636218		<0.05	<50	<50	<5	<50	30
W636219		<0.05	<50	<50	5	<50	20
W636220		0.11	<50	<50	102	<50	70



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**CERTIFICATE OF ANALYSIS WH17183124**

**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