



ALS Canada Ltd.

2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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 WH17183122**

Project: Dan Man

P.O. No.: 1006216-Batch 19

This report is for 36 Rock samples submitted to our lab in Whitehorse, YT, Canada on 22-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 WH17183122**

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
W636149		2.44	<0.001	<1	0.42	70	<50	<5	<10	0.61	<5	<5	8	14	0.80	<50
W636150		2.54	0.001	<1	0.36	40	<50	<5	<10	0.79	<5	<5	8	<5	0.61	<50
W636151		2.32	0.006	1	0.39	70	220	<5	<10	0.47	<5	<5	7	<5	0.65	<50
W636152		2.46	0.005	1	0.38	20	<50	<5	<10	0.16	<5	<5	8	8	0.42	<50
W636153		2.38	0.013	1	0.35	50	190	<5	<10	0.23	<5	<5	7	<5	0.58	<50
W636154		1.72	0.010	<1	0.46	60	<50	<5	<10	<0.05	<5	<5	10	5	0.56	<50
W636155		2.26	0.003	<1	0.35	80	60	<5	<10	1.21	<5	<5	5	<5	0.55	<50
W636156		0.32	1.325	32	1.23	530	650	<5	<10	0.27	32	<5	13	137	5.36	<50
W636157		2.38	0.002	<1	1.49	30	720	<5	<10	1.29	<5	22	63	33	4.88	<50
W636158		2.14	<0.001	1	1.68	50	760	<5	<10	5.73	<5	15	99	14	3.75	<50
W636159		2.22	0.002	<1	1.33	230	480	<5	<10	6.21	<5	19	94	31	4.43	<50
W636160		1.96	0.016	<1	1.66	40	750	<5	<10	3.52	<5	23	116	17	4.20	<50
W636161		1.82	0.002	<1	0.69	<10	80	<5	10	0.30	<5	<5	18	31	1.31	<50
W636162		2.20	0.001	<1	1.01	30	240	<5	<10	5.84	<5	9	77	10	3.72	<50
W636163		2.20	<0.001	<1	1.18	110	430	<5	<10	3.01	<5	8	79	7	2.63	<50
W636164		2.12	<0.001	1	1.10	40	1260	<5	<10	3.77	<5	6	78	22	3.15	<50
W636165		2.42	<0.001	<1	1.17	40	410	<5	<10	6.29	<5	14	97	20	2.90	<50
W636166		2.32	0.001	<1	1.27	40	90	<5	<10	4.93	<5	14	103	29	4.17	<50
W636167		2.34	<0.001	<1	0.05	<10	<50	<5	10	21.0	<5	<5	<5	<5	0.47	<50
W636168		1.92	0.008	1	0.88	10	70	<5	<10	3.80	<5	6	25	7	2.57	<50
W636169		2.40	0.001	<1	1.05	10	90	<5	<10	3.63	<5	10	16	<5	2.79	<50
W636170		2.22	<0.001	<1	0.76	10	120	<5	<10	2.96	<5	<5	13	<5	1.44	<50
W636171		2.68	0.004	1	0.77	20	100	<5	<10	1.99	<5	<5	14	5	1.53	<50
W636172		3.38	<0.001	<1	0.38	20	<50	<5	<10	0.13	<5	<5	8	<5	0.92	<50
W636173		2.54	0.027	<1	0.62	20	60	<5	<10	0.12	<5	<5	16	8	1.26	<50
W636174		2.50	0.053	<1	0.46	50	60	<5	<10	0.10	<5	<5	13	<5	1.11	<50
W636175		1.56	0.047	<1	0.49	50	80	<5	<10	0.11	<5	<5	14	10	1.18	<50
W636176		1.76	0.518	1	0.32	100	<50	<5	<10	<0.05	<5	<5	9	<5	0.80	<50
W636177		1.66	0.047	<1	0.33	40	<50	<5	<10	<0.05	<5	<5	8	<5	0.73	<50
W636178		1.96	0.095	1	0.34	50	400	<5	<10	<0.05	<5	<5	9	<5	0.74	<50
W636179		2.08	0.014	1	0.65	40	100	<5	<10	0.11	<5	5	41	7	1.92	<50
W636180		2.12	0.012	<1	1.56	40	320	<5	<10	0.83	<5	19	115	23	4.29	<50
W636181		1.86	0.015	<1	2.14	60	250	6	<10	0.40	<5	22	134	6	4.75	<50
W636182		2.06	0.013	<1	0.32	40	80	<5	<10	0.37	<5	<5	8	<5	1.26	<50
W636183		2.28	0.114	1	0.26	60	50	<5	<10	<0.05	<5	<5	10	<5	1.01	<50
W636184		2.22	0.036	<1	0.29	40	<50	<5	<10	<0.05	<5	<5	12	<5	1.02	<50



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**CERTIFICATE OF ANALYSIS WH17183122**

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 5	% 0.05	ppm 50	% 0.05	ppm 30	ppm 5	% 0.05	ppm 5	ppm 50	ppm 10	% 0.05	ppm 10	ppm 5	ppm 5	ppm 100
W636149		<5	0.18	<50	<0.05	150	<5	<0.05	8	<50	10	0.06	<10	<5	11	<100
W636150		<5	0.21	<50	<0.05	100	<5	<0.05	<5	<50	10	0.13	<10	<5	12	<100
W636151		<5	0.18	<50	<0.05	80	<5	<0.05	<5	<50	10	<0.05	<10	<5	17	<100
W636152		<5	0.28	<50	<0.05	50	<5	<0.05	<5	<50	20	<0.05	<10	<5	5	<100
W636153		<5	0.23	<50	<0.05	70	<5	<0.05	<5	<50	20	<0.05	<10	<5	11	<100
W636154		<5	0.18	<50	<0.05	70	<5	<0.05	5	60	20	<0.05	<10	<5	12	<100
W636155		<5	0.21	<50	<0.05	100	<5	<0.05	<5	<50	20	0.13	<10	<5	18	<100
W636156		<5	0.51	<50	0.10	1040	<5	<0.05	6	1470	3520	0.44	20	5	168	<100
W636157		<5	0.56	<50	0.39	1420	<5	<0.05	63	1030	10	<0.05	10	11	37	<100
W636158		<5	0.62	<50	1.66	920	<5	<0.05	57	1200	10	0.42	<10	13	131	<100
W636159		<5	0.31	<50	1.59	1110	<5	<0.05	66	1180	30	1.55	10	13	102	<100
W636160		<5	0.55	<50	0.56	1200	<5	<0.05	70	1400	<10	<0.05	<10	15	39	<100
W636161		<5	0.16	<50	0.06	330	<5	<0.05	13	170	20	<0.05	<10	<5	8	<100
W636162		<5	0.18	<50	0.60	680	<5	<0.05	39	980	50	0.35	<10	10	61	<100
W636163		<5	0.18	<50	0.13	580	<5	<0.05	28	1080	20	0.09	<10	13	64	<100
W636164		<5	0.15	<50	0.46	690	<5	<0.05	43	950	20	0.40	<10	13	94	<100
W636165		<5	0.15	<50	0.58	860	<5	<0.05	54	1050	30	0.28	<10	15	125	<100
W636166		<5	0.20	<50	0.33	730	<5	<0.05	67	1170	20	0.18	<10	16	82	<100
W636167		<5	<0.05	<50	11.70	230	<5	<0.05	<5	170	<10	<0.05	<10	<5	35	<100
W636168		<5	0.26	<50	0.70	860	<5	<0.05	26	450	40	0.05	<10	<5	137	<100
W636169		<5	0.51	<50	0.95	810	<5	<0.05	9	980	20	0.09	<10	5	103	<100
W636170		<5	0.43	<50	0.44	560	<5	<0.05	<5	520	10	0.06	<10	<5	60	<100
W636171		<5	0.33	<50	0.30	470	<5	<0.05	6	360	20	0.05	<10	<5	84	<100
W636172		<5	0.17	<50	0.06	120	<5	<0.05	<5	50	10	<0.05	<10	<5	6	<100
W636173		<5	0.15	<50	0.10	240	<5	<0.05	9	160	10	<0.05	<10	<5	12	<100
W636174		<5	0.12	<50	0.08	190	<5	<0.05	7	120	10	<0.05	<10	<5	15	<100
W636175		<5	0.11	<50	0.09	240	<5	<0.05	7	120	20	<0.05	<10	<5	15	<100
W636176		<5	0.11	<50	<0.05	110	<5	0.05	6	70	40	<0.05	<10	<5	19	<100
W636177		<5	0.10	<50	<0.05	110	<5	0.06	6	80	10	<0.05	<10	<5	9	<100
W636178		<5	0.12	<50	<0.05	110	<5	<0.05	<5	90	30	<0.05	<10	<5	26	<100
W636179		<5	0.34	<50	0.26	400	<5	<0.05	28	290	10	<0.05	<10	5	46	<100
W636180		<5	0.87	<50	0.86	930	<5	<0.05	81	930	10	<0.05	<10	13	49	<100
W636181		<5	1.26	<50	1.36	1010	<5	<0.05	119	1100	20	<0.05	<10	18	27	<100
W636182		<5	0.19	<50	<0.05	260	<5	<0.05	<5	110	10	<0.05	<10	<5	18	<100
W636183		<5	0.13	<50	<0.05	130	<5	<0.05	<5	60	10	<0.05	<10	<5	11	<100
W636184		<5	0.10	<50	<0.05	90	<5	<0.05	<5	60	10	<0.05	<10	<5	5	<100



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**CERTIFICATE OF ANALYSIS WH17183122**

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
W636149		<0.05	<50	<50	<5	<50	20
W636150		<0.05	<50	<50	<5	<50	10
W636151		<0.05	<50	<50	<5	<50	<10
W636152		<0.05	<50	<50	<5	<50	<10
W636153		<0.05	<50	<50	<5	<50	10
W636154		<0.05	<50	<50	<5	<50	10
W636155		<0.05	<50	<50	<5	<50	<10
W636156		<0.05	<50	<50	59	<50	2330
W636157		<0.05	<50	<50	62	<50	110
W636158		0.08	<50	<50	106	<50	60
W636159		<0.05	<50	<50	97	<50	140
W636160		0.07	<50	<50	117	<50	60
W636161		<0.05	<50	<50	16	<50	30
W636162		<0.05	<50	<50	81	<50	160
W636163		<0.05	<50	<50	88	<50	90
W636164		<0.05	<50	<50	82	<50	130
W636165		<0.05	<50	<50	93	<50	110
W636166		<0.05	<50	80	103	<50	200
W636167		<0.05	<50	<50	<5	<50	20
W636168		<0.05	<50	<50	27	<50	100
W636169		<0.05	<50	<50	30	<50	100
W636170		<0.05	<50	<50	10	<50	60
W636171		<0.05	<50	<50	13	<50	60
W636172		<0.05	<50	<50	<5	<50	20
W636173		<0.05	<50	<50	19	<50	30
W636174		<0.05	<50	<50	15	<50	20
W636175		<0.05	<50	<50	12	<50	20
W636176		<0.05	<50	<50	<5	<50	10
W636177		<0.05	<50	<50	<5	<50	10
W636178		<0.05	<50	<50	<5	<50	10
W636179		<0.05	<50	<50	25	<50	30
W636180		0.06	<50	<50	86	<50	50
W636181		0.08	<50	<50	107	<50	50
W636182		<0.05	<50	<50	6	<50	20
W636183		<0.05	<50	<50	<5	<50	10
W636184		<0.05	<50	<50	<5	<50	10



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**CERTIFICATE OF ANALYSIS WH17183122**

**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