



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: 16-OCT-2017  
Account: DEVARC

**CERTIFICATE WH17183148**

Project: Dan Man

P.O. No.: 1006216-Batch 24

This report is for 36 Rock samples submitted to our lab in Whitehorse, YT, Canada on 28-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
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 WH17183148**

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
W636329		2.10	<0.001	<1	0.31	10	<50	<5	10	0.47	<5	<5	12	10	0.40	<50
W636330		2.24	<0.001	<1	0.30	<10	<50	<5	<10	0.65	<5	<5	14	8	0.50	<50
W636331		2.34	<0.001	<1	1.72	<10	90	<5	10	2.74	<5	15	127	10	2.43	<50
W636332		2.02	<0.001	<1	0.60	10	<50	<5	10	0.78	<5	<5	27	10	1.00	<50
W636333		2.28	0.003	<1	1.72	10	310	<5	<10	3.03	<5	16	137	13	2.57	<50
W636334		2.90	0.001	<1	0.77	20	80	<5	<10	0.14	<5	8	17	9	1.31	<50
W636335		2.62	<0.001	<1	0.55	10	50	<5	<10	<0.05	<5	<5	12	8	0.67	<50
W636336		2.32	<0.001	<1	0.58	10	100	<5	10	<0.05	<5	<5	9	6	0.80	<50
W636337		2.44	<0.001	<1	0.47	30	80	<5	10	<0.05	<5	<5	<5	5	0.62	<50
W636338		2.18	0.023	<1	0.61	40	130	<5	10	<0.05	<5	14	14	16	1.63	<50
W636339		2.08	0.004	<1	0.71	10	160	<5	<10	<0.05	<5	<5	9	12	0.97	<50
W636340		1.80	0.003	<1	0.93	20	140	<5	10	<0.05	<5	12	12	10	1.10	<50
W636341		1.86	0.002	<1	1.39	30	190	<5	10	0.06	<5	11	52	18	1.87	<50
W636342		2.16	0.003	<1	1.92	20	260	<5	10	0.08	<5	19	89	31	3.32	<50
W636343		2.32	0.003	<1	0.80	50	80	<5	10	<0.05	<5	8	15	14	1.51	<50
W636344		2.24	0.013	<1	0.66	10	50	<5	10	<0.05	<5	<5	8	7	0.88	<50
W636345		2.30	0.009	<1	0.71	60	80	<5	10	<0.05	<5	<5	11	7	1.31	<50
W636346		2.36	0.011	<1	0.80	10	<50	<5	10	<0.05	<5	<5	7	6	0.57	<50
W636347		2.42	0.027	<1	0.73	20	<50	<5	10	<0.05	<5	<5	7	6	0.61	<50
W636348		0.30	1.420	31	1.18	550	660	<5	20	0.28	32	<5	13	140	5.43	<50
W636349		2.78	0.025	1	0.81	20	<50	<5	10	<0.05	<5	<5	7	6	0.60	<50
W636350		2.80	0.041	<1	0.79	20	<50	<5	<10	<0.05	<5	<5	7	5	0.59	<50
W636351		2.86	0.005	<1	0.73	20	<50	<5	10	<0.05	<5	<5	8	5	0.57	<50
W636352		2.88	0.006	<1	0.52	20	50	<5	<10	<0.05	<5	5	7	5	0.56	<50
W636353		2.68	0.276	<1	0.42	60	1000	<5	<10	<0.05	<5	<5	6	5	1.02	<50
W636354		2.60	0.164	<1	0.41	80	120	<5	10	0.66	<5	<5	8	<5	0.89	<50
W636355		2.38	0.213	<1	0.63	180	<50	<5	<10	0.79	<5	<5	7	<5	0.98	<50
W636356		2.44	0.167	<1	0.55	380	<50	<5	<10	0.64	<5	<5	6	<5	0.80	<50
W636357		2.72	0.110	<1	0.59	650	<50	<5	<10	0.11	<5	12	14	7	1.78	<50
W636358		2.20	0.077	<1	0.66	180	<50	<5	10	0.43	<5	5	20	9	1.26	<50
W636359		3.12	0.012	<1	1.53	80	<50	<5	10	5.99	<5	20	94	25	3.35	<50
W636360		2.34	0.004	<1	<0.05	10	<50	<5	10	21.6	<5	<5	<5	<5	0.44	<50
W636361		2.84	0.012	<1	0.74	110	<50	<5	10	0.73	<5	<5	9	<5	0.72	<50
W636362		2.96	0.021	1	0.82	190	60	<5	10	3.74	<5	14	65	14	2.58	<50
W636363		2.94	0.079	<1	0.62	100	<50	<5	10	0.26	<5	<5	9	11	0.76	<50
W636364		2.90	0.007	<1	0.57	120	70	<5	<10	0.15	<5	5	6	5	0.67	<50



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**CERTIFICATE OF ANALYSIS WH17183148**

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
W636329		<5	0.11	<50	0.05	70	<5	0.08	<5	150	<10	<0.05	10	<5	40	<100
W636330		<5	0.11	<50	<0.05	90	<5	0.08	<5	80	<10	<0.05	10	<5	42	<100
W636331		<5	1.16	<50	1.62	540	<5	<0.05	25	510	<10	0.06	10	5	73	<100
W636332		<5	0.42	<50	0.35	190	<5	0.05	6	140	<10	<0.05	20	<5	25	<100
W636333		<5	1.35	<50	1.56	620	<5	0.05	30	430	<10	0.13	10	6	45	<100
W636334		<5	0.23	<50	0.15	290	<5	<0.05	8	180	10	<0.05	<10	<5	18	<100
W636335		<5	0.25	<50	<0.05	180	<5	<0.05	6	70	10	<0.05	10	<5	12	<100
W636336		<5	0.47	<50	<0.05	340	<5	<0.05	<5	80	<10	<0.05	20	<5	8	<100
W636337		<5	0.36	50	<0.05	210	<5	<0.05	<5	80	10	<0.05	10	<5	7	<100
W636338		<5	0.44	50	0.07	500	<5	<0.05	16	140	10	<0.05	<10	<5	9	<100
W636339		<5	0.52	<50	0.06	550	<5	<0.05	11	120	<10	<0.05	10	<5	12	<100
W636340		<5	0.54	<50	0.08	490	<5	<0.05	12	90	10	<0.05	<10	<5	11	<100
W636341		<5	0.81	<50	0.65	450	<5	<0.05	26	130	<10	<0.05	10	5	15	<100
W636342		<5	1.15	<50	1.04	750	<5	<0.05	41	140	<10	<0.05	20	10	19	<100
W636343		<5	0.29	<50	0.10	280	<5	<0.05	9	120	10	<0.05	10	<5	12	<100
W636344		<5	0.20	<50	<0.05	110	<5	<0.05	<5	110	10	<0.05	10	<5	12	<100
W636345		<5	0.27	<50	<0.05	280	<5	<0.05	11	120	20	<0.05	10	<5	11	<100
W636346		<5	0.13	<50	<0.05	70	<5	<0.05	<5	70	20	<0.05	20	<5	11	<100
W636347		<5	0.16	<50	<0.05	90	<5	<0.05	<5	90	<10	<0.05	10	<5	13	<100
W636348		<5	0.52	<50	0.10	1070	<5	<0.05	5	1480	3460	0.45	40	5	169	<100
W636349		<5	0.15	<50	<0.05	90	<5	<0.05	<5	90	10	<0.05	10	<5	10	<100
W636350		<5	0.20	<50	<0.05	60	<5	<0.05	<5	80	10	<0.05	<10	<5	17	<100
W636351		<5	0.20	<50	<0.05	50	<5	<0.05	<5	60	<10	<0.05	10	<5	12	<100
W636352		<5	0.26	<50	<0.05	90	<5	<0.05	<5	80	<10	<0.05	10	<5	14	<100
W636353		<5	0.32	<50	<0.05	180	<5	<0.05	6	100	10	<0.05	10	<5	69	<100
W636354		<5	0.24	<50	<0.05	140	<5	<0.05	<5	80	<10	<0.05	10	<5	38	<100
W636355		<5	0.23	<50	<0.05	160	<5	<0.05	<5	110	20	<0.05	10	<5	27	<100
W636356		<5	0.19	<50	<0.05	120	<5	<0.05	<5	50	20	<0.05	10	<5	21	<100
W636357		<5	0.22	<50	<0.05	340	<5	<0.05	16	150	30	<0.05	20	<5	21	<100
W636358		<5	0.22	<50	0.05	260	<5	<0.05	10	210	10	<0.05	10	<5	15	<100
W636359		<5	0.56	<50	1.20	690	<5	<0.05	42	530	<10	<0.05	10	13	86	<100
W636360		<5	<0.05	<50	12.10	200	<5	<0.05	<5	200	<10	<0.05	10	<5	33	<100
W636361		<5	0.32	<50	0.06	130	<5	<0.05	<5	140	20	<0.05	10	<5	25	<100
W636362		<5	0.17	<50	0.68	690	<5	<0.05	21	300	<10	<0.05	10	9	50	<100
W636363		<5	0.20	<50	0.12	120	<5	<0.05	<5	80	10	<0.05	<10	<5	21	<100
W636364		<5	0.26	<50	<0.05	130	<5	<0.05	<5	130	20	<0.05	20	<5	18	<100



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**CERTIFICATE OF ANALYSIS WH17183148**

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
W636329		<0.05	<50	<50	<5	<50	<10
W636330		<0.05	<50	<50	<5	<50	<10
W636331		0.19	<50	<50	60	<50	40
W636332		<0.05	<50	<50	8	<50	10
W636333		0.21	<50	<50	52	<50	50
W636334		<0.05	<50	<50	18	<50	20
W636335		<0.05	<50	<50	<5	<50	10
W636336		<0.05	<50	<50	<5	<50	10
W636337		<0.05	<50	<50	<5	<50	10
W636338		<0.05	<50	<50	13	<50	30
W636339		<0.05	<50	<50	6	<50	10
W636340		<0.05	<50	<50	7	<50	20
W636341		0.09	<50	<50	28	<50	30
W636342		0.15	<50	<50	55	<50	50
W636343		<0.05	<50	<50	13	<50	30
W636344		<0.05	<50	<50	5	<50	20
W636345		<0.05	<50	<50	9	<50	30
W636346		<0.05	<50	<50	<5	<50	30
W636347		<0.05	<50	<50	<5	<50	20
W636348		<0.05	<50	<50	60	<50	2340
W636349		<0.05	<50	<50	<5	<50	20
W636350		<0.05	<50	<50	<5	<50	50
W636351		<0.05	<50	<50	<5	<50	10
W636352		<0.05	<50	<50	<5	<50	10
W636353		<0.05	<50	<50	<5	<50	10
W636354		<0.05	<50	<50	<5	<50	<10
W636355		<0.05	<50	<50	<5	<50	60
W636356		<0.05	<50	<50	<5	<50	90
W636357		<0.05	<50	<50	<5	<50	110
W636358		<0.05	<50	<50	12	<50	20
W636359		<0.05	<50	<50	77	<50	50
W636360		<0.05	<50	<50	<5	<50	10
W636361		<0.05	<50	<50	<5	<50	10
W636362		<0.05	<50	<50	55	<50	30
W636363		<0.05	<50	<50	<5	<50	10
W636364		<0.05	<50	<50	<5	<50	10



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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

LOG-22

LOG-23

ME-ICP41a

PUL-32

PUL-QC

SPL-21

WEI-21