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: **LAC DES ILES MINES LTD. (NAP)**
556 TENTH AVE
THUNDER BAY ON P7B 2R2

Finalized Date: 13-DEC-2018
Account: MZI

CERTIFICATE TB18307244

Project: EMB

P.O. No.: 198288

This report is for 15 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 30-NOV-2018.

The following have access to data associated with this certificate:

KAITLYN CHOVANCAK LDIM WEBTRIEVE	JILL MAXWELL	KATHRYN STINSON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
C-IR07	Total Carbon (Leco)	LECO
S-IR08	Total Sulphur (Leco)	LECO
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
TOT-ICP06	Total Calculation for ICP06	
ME-4ACD81	Base Metals by 4-acid dig.	ICP-AES
Se-MS46	Super Trace Se 25g AR by ICP-MS	ICP-MS

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 *****

Comments: ***** ORIGINALLY FROM WO: TB18299768 MZI *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS TB18307244

Sample Description	Method	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06
	Analyte	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI	Total
	Units	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	LOD	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01	0.01
W875639		49.6	8.63	13.70	6.55	15.00	0.35	0.05	0.056	0.36	0.20	0.01	<0.01	<0.01	4.04	98.55
W875644		48.6	20.1	7.05	10.50	7.34	2.00	0.34	0.033	0.20	0.09	<0.01	0.02	0.01	2.43	98.71
W875649		50.3	20.3	7.29	11.05	7.80	2.10	0.17	0.035	0.21	0.10	0.02	0.03	0.01	2.13	101.55
W875654		49.6	20.3	7.04	10.80	7.79	2.00	0.15	0.037	0.18	0.10	0.01	0.02	0.01	2.18	100.22
W875660		49.2	20.2	6.91	10.90	7.54	2.01	0.20	0.036	0.18	0.10	<0.01	0.02	0.01	2.08	99.39
W875665		49.6	20.4	6.98	11.10	7.64	1.88	0.20	0.039	0.21	0.10	<0.01	0.02	0.01	2.09	100.27
W875670		49.0	20.2	6.89	10.85	7.73	1.86	0.24	0.039	0.18	0.10	0.01	0.02	0.01	2.32	99.45
W875675		49.4	19.40	7.37	10.50	8.56	1.69	0.32	0.040	0.16	0.11	0.01	0.02	0.01	2.55	100.14
W875681		49.7	13.10	10.65	7.85	12.55	1.34	0.36	0.048	0.28	0.16	0.01	0.01	0.01	3.49	99.56
W875686		49.4	18.25	7.78	8.61	9.60	2.41	0.56	0.049	0.14	0.11	<0.01	0.02	0.01	3.29	100.23
W875691		49.2	18.75	7.58	9.79	8.86	1.85	0.53	0.042	0.21	0.11	0.01	0.02	0.01	3.17	100.13
W875696		49.1	11.30	11.70	8.20	14.25	0.88	0.18	0.073	0.31	0.19	<0.01	0.01	<0.01	3.05	99.24
W875702		59.9	16.80	7.64	5.92	2.66	4.41	0.46	<0.002	1.01	0.06	0.32	0.08	0.04	1.04	100.34
W875707		49.2	20.0	6.80	10.70	8.09	1.86	0.51	0.047	0.13	0.10	<0.01	0.02	0.01	2.81	100.28
W875712		49.3	20.8	6.38	10.80	7.37	2.16	0.62	0.037	0.14	0.09	<0.01	0.02	0.02	2.73	100.47

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To: **LAC DES ILES MINES LTD. (NAP)**
556 TENTH AVE
THUNDER BAY ON P7B 2R2

Finalized Date: 13-DEC-2018
Account: MZI

Project: EMB

CERTIFICATE OF ANALYSIS TB18307244

Sample Description	Method / Analyte / Units / LOD	C-IR07 C % 0.01	S-IR08 S % 0.01	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.1	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Ge ppm 5	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01	ME-MS81 La ppm 0.1
W875639		0.03	0.08	7.2	4.9	440	0.65	0.92	0.66	0.15	11.5	0.69	<5	0.5	0.19	2.1
W875644		0.03	0.05	81.1	3.3	240	1.18	0.53	0.40	0.17	16.0	0.35	<5	0.2	0.12	1.8
W875649		0.02	0.03	69.1	4.2	250	0.60	0.67	0.42	0.22	16.1	0.51	<5	0.4	0.13	2.2
W875654		0.01	0.01	57.7	3.3	280	0.61	0.59	0.35	0.22	16.0	0.46	<5	0.3	0.11	1.9
W875660		0.02	0.02	58.6	3.6	270	0.76	0.58	0.37	0.22	15.8	0.48	<5	0.3	0.12	1.8
W875665		0.03	0.03	56.5	3.5	290	0.72	0.53	0.37	0.21	16.1	0.36	<5	0.3	0.11	1.8
W875670		0.03	0.04	68.0	3.6	290	0.75	0.54	0.34	0.19	15.4	0.43	<5	0.3	0.12	2.0
W875675		0.01	0.02	70.4	3.2	300	0.85	0.49	0.28	0.16	14.9	0.41	<5	0.3	0.12	1.8
W875681		0.02	0.08	71.9	3.2	360	1.15	0.73	0.56	0.17	12.3	0.59	<5	0.4	0.17	1.7
W875686		0.01	0.03	114.0	2.0	360	2.36	0.45	0.20	0.16	14.3	0.25	<5	0.2	0.10	1.1
W875691		0.03	0.03	92.1	3.1	320	2.14	0.46	0.37	0.19	14.8	0.51	<5	0.3	0.11	1.7
W875696		0.02	0.03	36.2	3.2	560	1.10	0.74	0.60	0.17	11.9	0.63	<5	0.5	0.21	1.6
W875702		0.04	0.34	356	83.0	10	2.36	5.09	2.51	1.90	22.3	7.01	<5	6.0	0.83	37.4
W875707		0.04	0.03	122.0	2.8	350	1.57	0.33	0.24	0.17	15.6	0.24	<5	0.2	0.08	1.7
W875712		0.04	0.02	140.0	2.4	280	2.04	0.40	0.32	0.19	15.3	0.40	<5	0.2	0.08	1.5

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556 TENTH AVE
THUNDER BAY ON P7B 2R2

Finalized Date: 13-DEC-2018
Account: MZI

Project: EMB

CERTIFICATE OF ANALYSIS TB18307244

Sample Description	Method / Analyte / Units / LOD	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 1
W875639		0.08	0.8	2.6	0.62	1.3	0.47	<1	20.2	0.2	0.11	0.44	0.10	0.18	301	<1
W875644		0.06	0.3	1.7	0.43	9.8	0.35	<1	207	0.2	0.07	0.18	0.05	0.10	158	1
W875649		0.06	0.3	1.9	0.50	4.7	0.38	<1	222	0.2	0.09	0.20	0.06	0.06	150	1
W875654		0.06	0.3	1.7	0.41	3.8	0.33	<1	217	0.2	0.06	0.17	0.04	0.05	136	<1
W875660		0.05	0.3	2.1	0.40	5.7	0.45	<1	220	0.1	0.08	0.16	0.03	0.07	138	<1
W875665		0.05	0.3	1.8	0.45	5.7	0.33	<1	207	0.2	0.06	0.15	0.06	0.05	148	<1
W875670		0.05	0.3	1.8	0.41	6.8	0.30	<1	214	0.2	0.05	0.08	0.06	<0.05	142	<1
W875675		0.06	0.2	1.5	0.40	10.1	0.35	<1	187.0	0.1	0.08	0.14	0.04	0.05	134	1
W875681		0.09	0.4	1.9	0.36	11.0	0.43	<1	115.0	0.2	0.08	0.16	0.07	<0.05	220	1
W875686		0.06	<0.2	1.1	0.25	18.2	0.21	<1	193.5	0.1	0.06	0.07	0.04	<0.05	136	<1
W875691		0.06	0.3	1.8	0.38	16.6	0.38	<1	203	0.1	0.05	0.11	0.06	<0.05	154	<1
W875696		0.08	0.6	1.8	0.40	5.5	0.57	<1	80.4	0.2	0.10	0.15	0.08	0.05	237	1
W875702		0.25	9.8	46.4	10.55	13.7	8.51	1	717	0.8	0.84	4.89	0.30	1.53	135	1
W875707		0.05	<0.2	1.4	0.33	15.6	0.24	<1	200	0.1	0.04	0.11	0.04	<0.05	120	1
W875712		0.05	<0.2	1.3	0.30	18.5	0.28	<1	212	0.1	0.06	0.08	0.05	<0.05	126	1

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CERTIFICATE OF ANALYSIS TB18307244

Sample Description	Method / Analyte / Units / LOD	ME-MS81 Y ppm 0.1	ME-MS81 Yb ppm 0.03	ME-MS81 Zr ppm 2	ME-MS42 As ppm 0.1	ME-MS42 Bi ppm 0.01	ME-MS42 Hg ppm 0.005	ME-MS42 In ppm 0.005	ME-MS42 Re ppm 0.001	ME-MS42 Sb ppm 0.05	ME-MS42 Se ppm 0.2	ME-MS42 Te ppm 0.01	ME-MS42 Tl ppm 0.02	ME-4ACD81 Ag ppm 0.5	ME-4ACD81 Cd ppm 0.5	ME-4ACD81 Co ppm 1
W875639		5.3	0.66	15	0.2	0.03	<0.005	0.006	<0.001	<0.05	0.2	0.03	<0.02	<0.5	0.6	94
W875644		2.9	0.33	9	0.4	0.02	<0.005	<0.005	<0.001	0.06	0.2	0.04	<0.02	<0.5	<0.5	45
W875649		3.5	0.47	11	0.3	0.08	<0.005	<0.005	<0.001	<0.05	0.2	0.09	<0.02	<0.5	0.5	44
W875654		2.8	0.49	9	0.1	0.03	<0.005	<0.005	<0.001	<0.05	0.2	0.06	<0.02	<0.5	<0.5	41
W875660		3.0	0.38	10	0.1	0.03	<0.005	<0.005	<0.001	<0.05	0.2	0.05	<0.02	<0.5	<0.5	42
W875665		3.1	0.38	10	0.3	0.01	<0.005	<0.005	<0.001	<0.05	0.3	0.04	<0.02	<0.5	<0.5	42
W875670		3.1	0.35	9	0.4	0.02	<0.005	<0.005	<0.001	<0.05	0.3	0.03	<0.02	<0.5	<0.5	43
W875675		2.6	0.26	10	0.2	0.03	<0.005	<0.005	<0.001	<0.05	0.2	0.04	<0.02	<0.5	<0.5	46
W875681		4.1	0.53	12	0.3	0.06	<0.005	<0.005	<0.001	<0.05	0.4	0.05	<0.02	<0.5	<0.5	72
W875686		2.2	0.36	6	0.1	0.02	<0.005	<0.005	<0.001	<0.05	0.3	0.03	0.02	<0.5	<0.5	51
W875691		3.1	0.34	11	0.3	0.03	<0.005	<0.005	<0.001	0.08	0.2	0.04	<0.02	<0.5	<0.5	51
W875696		4.5	0.71	14	0.2	0.06	<0.005	<0.005	<0.001	<0.05	0.2	0.07	<0.02	<0.5	<0.5	75
W875702		23.2	1.84	233	0.5	0.13	<0.005	0.010	<0.001	<0.05	0.5	0.03	0.08	<0.5	<0.5	37
W875707		2.2	0.28	7	0.2	0.05	<0.005	<0.005	<0.001	<0.05	0.3	0.04	0.02	<0.5	<0.5	46
W875712		2.6	0.36	7	0.3	0.03	<0.005	<0.005	<0.001	<0.05	<0.2	0.03	0.02	<0.5	<0.5	40

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Finalized Date: 13-DEC-2018
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Project: EMB

CERTIFICATE OF ANALYSIS TB18307244

Sample Description	Method Analyte Units LOD	ME-4ACD81 Cu ppm 1	ME-4ACD81 Li ppm 10	ME-4ACD81 Mo ppm 1	ME-4ACD81 Ni ppm 1	ME-4ACD81 Pb ppm 2	ME-4ACD81 Sc ppm 1	ME-4ACD81 Zn ppm 2	Se-MS46 Se ppm 0.003
W875639		71	30	<1	463	<2	36	93	0.156
W875644		62	10	<1	243	<2	17	45	0.101
W875649		56	10	<1	242	<2	16	47	0.055
W875654		28	10	1	242	<2	18	39	0.029
W875660		27	10	<1	242	<2	17	42	0.056
W875665		57	10	1	255	<2	19	42	0.106
W875670		61	10	<1	255	<2	18	41	0.107
W875675		41	10	1	263	<2	15	45	0.066
W875681		132	20	1	434	<2	22	68	0.305
W875686		46	20	<1	300	<2	15	48	0.070
W875691		56	20	1	284	<2	18	47	0.118
W875696		38	10	1	445	<2	27	67	0.112
W875702		300	10	<1	10	<2	8	38	0.589
W875707		57	10	<1	259	<2	17	41	0.109
W875712		62	10	<1	237	<2	18	42	0.111

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CERTIFICATE OF ANALYSIS TB18307244

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:			
C-IR07	FND-02	ME-4ACD81	ME-ICP06
ME-MS42	ME-MS81	OA-GRA05	Se-MS46
S-IR08	TOT-ICP06		