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: 9-JUL-2019
Account: MZI

CERTIFICATE TB19149625

Project: EMB

P.O. No.: 198288

This report is for 11 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 19-JUN-2019.

The following have access to data associated with this certificate:

KAITLYN CHOVANCAK CLAIRE MCGUINNESS	DENIS DECHARTE DAVE PECK	JILL MAXWELL LDIM WEBTRIEVE

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
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
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES
Se-MS46	Super Trace Se 25g AR by ICP-MS	ICP-MS
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES

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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Sample Description	Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	ME-ICP06 SiO2 % 0.01	ME-ICP06 Al2O3 % 0.01	ME-ICP06 Fe2O3 % 0.01	ME-ICP06 CaO % 0.01	ME-ICP06 MgO % 0.01	ME-ICP06 Na2O % 0.01	ME-ICP06 K2O % 0.01	ME-ICP06 Cr2O3 % 0.002	ME-ICP06 TiO2 % 0.01	ME-ICP06 MnO % 0.01	ME-ICP06 P2O5 % 0.01	ME-ICP06 SrO % 0.01	ME-ICP06 BaO % 0.01	OA-GRA05 LOI % 0.01
A0145937		1.81	15.00	0.04	0.08	28.2	20.8	0.02	0.01	<0.002	<0.01	0.05	<0.01	0.01	0.04	34.8
A0145938		0.08	85.1	5.47	3.21	0.04	0.43	0.06	0.65	0.013	0.30	0.18	0.10	<0.01	0.07	5.42
A0145939		2.43	48.7	22.1	6.94	11.35	5.42	2.05	0.19	0.018	0.26	0.08	0.01	0.03	0.01	1.55
A0145940		2.40	49.6	22.7	6.42	11.10	4.92	2.40	0.23	0.016	0.27	0.07	0.02	0.03	0.01	1.83
A0145941		2.33	57.0	21.7	4.24	8.83	2.50	3.70	0.29	0.009	0.21	0.04	0.06	0.06	0.02	1.29
A0145942		2.08	48.0	21.5	6.54	11.95	4.96	2.08	0.16	0.017	0.28	0.07	0.02	0.02	<0.01	4.49
A0145943		2.42	47.8	20.5	8.37	10.75	6.91	1.73	0.17	0.022	0.27	0.10	0.02	0.02	0.01	2.60
A0145944		2.57	49.1	20.7	8.62	10.95	7.13	1.74	0.16	0.023	0.27	0.11	0.01	0.02	0.01	2.61
A0145945		2.58	49.5	20.6	8.44	10.55	7.03	1.91	0.16	0.021	0.25	0.11	0.01	0.02	0.01	2.34
A0145946		3.35	48.9	20.4	8.71	10.80	7.20	1.77	0.18	0.023	0.29	0.11	0.01	0.02	0.01	2.25
A0145947		2.50	49.0	19.60	9.43	10.85	7.73	1.67	0.13	0.025	0.31	0.11	<0.01	0.02	0.01	1.58

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CERTIFICATE OF ANALYSIS TB19149625

Sample Description	Method / Analyte / Units / LOD	TOT-ICP06 Total % 0.01	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
A0145937		99.05	9.17	0.02	375	0.7	<10	0.18	0.05	<0.03	<0.03	0.2	<0.05	<5	<0.2	0.01
A0145938		101.04	3.93	0.03	615	216	100	1.07	1.40	0.89	0.51	7.1	1.60	<5	1.8	0.29
A0145939		98.71	0.03	0.06	81.0	3.5	130	1.09	0.45	0.27	0.22	16.8	0.40	<5	0.2	0.10
A0145940		99.62	0.02	0.04	92.9	3.9	120	1.77	0.42	0.31	0.26	17.6	0.43	<5	0.3	0.10
A0145941		99.95	0.03	0.03	152.5	9.3	60	1.36	0.50	0.28	0.38	18.2	0.68	<5	0.7	0.11
A0145942		100.09	0.01	0.06	40.0	4.5	120	0.75	0.45	0.32	0.21	15.5	0.48	<5	0.4	0.10
A0145943		99.27	0.04	0.06	61.5	2.6	160	1.08	0.39	0.28	0.20	15.9	0.34	<5	0.2	0.08
A0145944		101.45	0.07	0.07	58.9	2.6	170	1.18	0.40	0.29	0.23	15.7	0.34	<5	0.2	0.09
A0145945		100.95	0.04	0.05	64.6	3.1	160	1.45	0.48	0.29	0.20	16.0	0.43	<5	0.3	0.09
A0145946		100.67	0.02	0.07	70.8	2.8	170	1.38	0.42	0.31	0.22	15.4	0.33	<5	0.2	0.10
A0145947		100.47	0.03	0.07	51.5	2.6	180	1.02	0.46	0.27	0.21	15.1	0.35	<5	0.3	0.11

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CERTIFICATE OF ANALYSIS TB19149625

Sample Description	Method / Analyte / Units / LOD	ME-MS81 La ppm 0.1	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
A0145937		0.4	0.01	<0.2	0.2	0.07	0.5	0.05	<1	164.0	0.1	<0.01	0.07	0.01	0.24	<5
A0145938		156.0	0.16	5.3	49.6	18.10	23.6	3.24	3	55.8	0.4	0.25	5.63	0.13	7.37	86
A0145939		1.8	0.05	0.3	1.5	0.40	3.3	0.40	<1	260	0.1	0.06	0.19	0.05	0.07	165
A0145940		2.0	0.04	0.4	1.8	0.45	4.4	0.40	<1	308	0.1	0.07	0.17	0.04	0.06	164
A0145941		4.8	0.04	0.9	3.9	1.08	5.4	0.79	<1	521	0.2	0.09	0.49	0.05	0.18	99
A0145942		2.3	0.05	0.6	1.9	0.54	4.1	0.37	<1	215	0.1	0.08	0.33	0.05	0.16	176
A0145943		1.2	0.05	0.2	1.2	0.31	3.1	0.24	<1	231	0.1	0.06	0.11	0.04	<0.05	203
A0145944		1.3	0.06	0.2	1.3	0.30	3.3	0.29	<1	240	0.1	0.06	0.11	0.05	0.22	206
A0145945		1.4	0.05	0.8	1.4	0.35	4.5	0.35	<1	239	0.2	0.07	0.23	0.06	0.22	194
A0145946		1.4	0.04	0.2	1.4	0.34	4.3	0.29	<1	231	0.1	0.05	0.12	0.05	<0.05	219
A0145947		1.2	0.05	0.2	1.3	0.32	2.1	0.28	<1	213	0.1	0.07	0.13	0.05	<0.05	239

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CERTIFICATE OF ANALYSIS TB19149625

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-4ACD81	ME-4ACD81
	Analyte	W	Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.5	0.5
A0145937		1	0.3	0.03	<2	0.2	0.01	<0.005	<0.005	<0.001	0.08	0.2	<0.01	0.02	<0.5	<0.5
A0145938		3	10.2	0.94	70	5.9	13.00	0.059	0.110	0.003	0.39	3.3	0.41	0.04	1.1	<0.5
A0145939		1	2.5	0.38	9	0.3	0.02	<0.005	<0.005	<0.001	<0.05	0.2	0.02	<0.02	<0.5	<0.5
A0145940		1	2.5	0.34	13	0.1	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	0.02	<0.02	<0.5	<0.5
A0145941		<1	3.0	0.32	28	0.1	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	0.02	<0.02	<0.5	<0.5
A0145942		1	2.7	0.31	17	0.2	0.02	<0.005	0.005	<0.001	<0.05	<0.2	0.02	<0.02	<0.5	<0.5
A0145943		<1	2.4	0.28	7	0.2	0.04	<0.005	<0.005	<0.001	<0.05	0.3	0.03	<0.02	<0.5	<0.5
A0145944		<1	2.4	0.28	6	0.2	0.04	<0.005	<0.005	<0.001	<0.05	<0.2	0.02	<0.02	<0.5	<0.5
A0145945		<1	2.8	0.35	9	0.5	0.10	<0.005	<0.005	<0.001	<0.05	0.2	0.01	<0.02	<0.5	<0.5
A0145946		<1	2.5	0.33	8	0.5	0.11	<0.005	<0.005	<0.001	<0.05	0.2	0.03	<0.02	<0.5	<0.5
A0145947		<1	2.6	0.34	8	0.1	0.04	<0.005	<0.005	<0.001	<0.05	0.2	0.01	<0.02	<0.5	0.5

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Sample Description	Method Analyte Units LOD	ME-4ACD81 Co ppm 1	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	PGM-ICP23 Au ppb 1	PGM-ICP23 Pt ppb 5	PGM-ICP23 Pd ppb 1	Se-MS46 Se ppm 0.003
A0145937		2	1	10	<1	2	2	<1	24	<1	<5	<1	<0.003
A0145938		63	85	10	6	86	52	5	47	4710	1290	2000	2.96
A0145939		38	40	10	<1	146	3	11	44	<1	<5	17	0.071
A0145940		33	34	20	<1	124	<2	10	38	1	<5	16	0.064
A0145941		19	21	10	<1	65	<2	6	24	<1	<5	12	0.027
A0145942		35	40	30	<1	147	<2	12	39	<1	<5	22	0.051
A0145943		45	38	10	<1	185	<2	12	52	<1	<5	19	0.079
A0145944		46	43	10	<1	186	<2	14	51	<1	<5	18	0.096
A0145945		45	40	10	1	177	<2	13	52	<1	<5	14	0.058
A0145946		48	45	10	<1	194	<2	14	53	<1	<5	19	0.089
A0145947		51	52	10	<1	216	<2	15	55	<1	<5	26	0.114

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CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

Applies to Method:	CRU-31	CRU-QC	LOG-21	LOG-23
	PUL-31	PUL-QC	SPL-21	WEI-21

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

Applies to Method:	C-IR07	ME-4ACD81	ME-ICP06	ME-MS42
	ME-MS81	OA-GRA05	PGM-ICP23	Se-MS46
	S-IR08	TOT-ICP06		