ALS Canada Ltd.

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

Finalized Date: 28-AUG-2019
Account: MZI

CERTIFICATE TB19196902

Project: EMB

P.O. No.: 198288

This report is for 51 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 9-AUG-2019.

The following have access to data associated with this certificate:

KAITLYN CHOVANCAK LDIM WEBTRIEVE	DENIS DECHARTE	JILL MAXWELL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
C-IR07	Total Carbon (IR Spectroscopy)	LECO
S-IR08	Total Sulphur (IR Spectroscopy)	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
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 *****

Comments: ***** ORIGINALLY FROM WO: TB19140113 MZI *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS TB19196902

Sample Description	Method / Analyte / Units / LOD	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	TOT-ICP06 Total % 0.01
A0140703		18.35	0.17	0.14	27.7	20.8	0.04	0.05	<0.002	0.01	0.05	<0.01	0.02	0.03	31.8	99.16
A0140704		85.7	5.44	3.14	0.04	0.44	0.06	0.67	0.015	0.32	0.18	0.07	<0.01	0.07	5.38	101.53
A0140705		49.2	20.0	9.07	9.63	6.84	2.88	0.48	0.039	0.33	0.12	<0.01	0.03	0.01	2.78	101.41
A0140706		48.9	19.70	8.54	10.95	6.62	2.48	0.35	0.051	0.34	0.11	<0.01	0.03	0.01	2.37	100.45
A0140707		48.9	21.2	7.49	10.40	5.86	2.98	0.47	0.034	0.26	0.11	0.03	0.04	0.01	2.68	100.46
A0140708		47.8	20.5	8.26	8.89	8.05	2.62	0.43	0.032	0.18	0.11	<0.01	0.03	0.01	3.72	100.63
A0140709		47.9	11.50	15.20	6.87	12.80	1.29	0.12	0.067	0.43	0.21	<0.01	0.01	<0.01	4.19	100.59
A0140710		47.2	11.20	14.70	7.33	12.40	1.64	0.08	0.071	0.46	0.19	<0.01	0.01	<0.01	4.98	100.26
A0140711		48.5	15.40	11.70	8.02	9.84	2.04	0.25	0.046	0.34	0.15	<0.01	0.02	0.01	4.85	101.17
A0140712		47.9	15.95	11.15	8.17	9.75	2.24	0.38	0.048	0.32	0.15	<0.01	0.02	0.01	4.06	100.15
A0140713		48.1	15.75	10.00	10.55	7.39	2.01	0.22	0.044	0.40	0.12	<0.01	0.04	<0.01	4.25	98.87
A0140714		47.5	19.55	9.99	9.35	6.81	2.51	0.65	0.028	0.42	0.12	<0.01	0.04	0.01	3.32	100.30
A0140715		48.3	20.1	9.13	9.96	5.90	2.63	0.64	0.023	0.42	0.11	<0.01	0.03	0.01	2.91	100.16
A0140716		48.1	20.7	9.47	10.65	5.95	2.20	0.39	0.021	0.42	0.11	<0.01	0.03	0.01	2.40	100.45
A0140717		47.6	20.1	9.48	10.70	5.70	2.55	0.47	0.021	0.44	0.11	<0.01	0.04	0.01	2.59	99.81
A0140718		47.6	20.1	10.15	9.44	6.27	2.75	0.58	0.022	0.51	0.12	<0.01	0.04	0.01	2.73	100.32
A0140719		46.9	20.1	10.15	9.25	6.54	2.76	0.47	0.023	0.49	0.12	<0.01	0.04	0.01	2.94	99.79
A0140720		47.0	19.50	10.05	8.58	6.33	3.21	0.57	0.022	0.50	0.11	<0.01	0.03	0.01	3.40	99.31
A0140721		45.9	18.65	12.15	7.85	7.54	2.92	0.48	0.025	0.56	0.13	<0.01	0.03	0.01	3.82	100.07
A0140722		46.1	17.95	12.30	8.76	7.35	2.91	0.27	0.024	0.61	0.14	<0.01	0.03	0.01	3.59	100.04
A0140723		47.1	12.50	20.5	6.15	6.59	2.15	0.63	0.035	1.24	0.19	0.15	0.03	0.02	1.26	98.55
A0140724		45.1	18.20	13.15	10.10	6.68	2.42	0.18	0.021	0.79	0.15	<0.01	0.04	0.01	3.28	100.12
A0140725		46.4	18.80	12.50	10.50	6.39	2.21	0.23	0.020	0.70	0.13	<0.01	0.03	0.01	2.45	100.37
A0140726		48.2	19.35	10.95	10.90	6.48	2.02	0.21	0.024	0.51	0.11	<0.01	0.02	0.01	1.67	100.45
A0140727		47.5	18.40	11.30	10.35	7.02	1.91	0.18	0.026	0.50	0.13	<0.01	0.02	0.01	2.12	99.47
A0140728		47.4	18.00	11.40	10.25	7.21	1.92	0.25	0.028	0.47	0.13	<0.01	0.03	0.01	2.67	99.77
A0140729		47.5	18.20	10.70	10.05	7.10	2.19	0.32	0.028	0.43	0.13	<0.01	0.03	0.01	2.91	99.60
A0140730		47.6	18.65	10.40	10.45	6.93	1.93	0.25	0.027	0.42	0.12	<0.01	0.03	0.01	2.91	99.73
A0140731		47.8	18.50	10.70	10.30	7.14	1.91	0.28	0.028	0.42	0.13	<0.01	0.03	0.01	2.68	99.93
A0140732		47.4	18.20	10.70	10.40	7.20	1.86	0.24	0.029	0.40	0.12	<0.01	0.02	0.01	2.19	98.77
A0140733		48.9	19.00	9.73	10.50	6.79	2.05	0.23	0.025	0.34	0.11	<0.01	0.03	0.01	2.15	99.87
A0140734		51.5	18.05	9.94	9.27	6.56	2.54	0.23	0.023	0.41	0.11	<0.01	0.03	0.01	2.32	100.99
A0140735		46.9	18.00	11.05	10.35	7.11	1.89	0.12	0.025	0.44	0.12	<0.01	0.02	<0.01	3.16	99.19
A0140736		47.4	17.15	11.00	9.56	6.60	1.99	0.18	0.023	0.54	0.12	0.02	0.02	0.01	4.43	99.04
A0140737		45.5	18.20	10.45	10.45	6.60	2.03	0.13	0.026	0.47	0.11	<0.01	0.02	0.01	4.32	98.32
A0140738		46.9	18.60	9.87	10.65	6.26	2.16	0.19	0.026	0.40	0.11	0.01	0.03	0.01	3.43	98.65
A0140739		46.8	19.55	9.68	11.00	6.11	2.11	0.18	0.024	0.44	0.11	0.01	0.03	0.01	3.26	99.31
A0140740		47.1	20.5	9.01	11.20	5.64	2.26	0.16	0.023	0.42	0.10	<0.01	0.03	0.01	3.31	99.76
A0140741		46.8	20.3	8.72	11.05	5.65	2.17	0.15	0.023	0.39	0.10	0.01	0.03	0.01	3.24	98.64
A0140742		46.8	20.2	8.85	10.90	5.84	2.10	0.19	0.025	0.40	0.10	0.02	0.03	0.01	2.99	98.46

Comments: ***** ORIGINALLY FROM WO: TB19140113 MZI *****

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THUNDER BAY ON P7B 2R2

Finalized Date: 28-AUG-2019
Account: MZI

Project: EMB

CERTIFICATE OF ANALYSIS TB19196902

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
A0140703		8.30	<0.01	269	2.4	<10	0.25	0.08	0.06	<0.03	0.3	0.07	<5	<0.2	0.02	1.6
A0140704		3.89	0.01	670	207	100	1.10	1.39	0.86	0.51	6.9	1.43	<5	1.8	0.32	149.5
A0140705		0.05	0.06	101.0	3.2	270	2.05	0.46	0.29	0.19	17.5	0.35	<5	0.2	0.08	1.7
A0140706		0.06	0.09	91.0	3.4	370	1.61	0.54	0.38	0.26	17.9	0.43	<5	0.3	0.13	2.0
A0140707		0.13	0.20	71.3	1.7	150	1.52	0.22	0.17	0.14	11.6	0.22	<5	<0.2	0.06	0.7
A0140708		0.19	0.23	101.5	2.0	230	2.83	0.29	0.19	0.18	16.2	0.28	<5	<0.2	0.08	1.2
A0140709		0.22	0.16	27.5	2.2	460	0.82	0.57	0.44	0.16	13.0	0.45	<5	0.2	0.13	1.0
A0140710		0.40	0.03	17.7	2.6	490	0.50	0.58	0.38	0.20	13.3	0.51	<5	0.3	0.13	1.5
A0140711		0.45	0.04	64.3	3.1	320	1.89	0.43	0.36	0.19	15.0	0.43	<5	0.2	0.14	1.6
A0140712		0.25	0.03	86.2	2.9	340	1.84	0.47	0.37	0.19	14.9	0.43	<5	0.2	0.13	1.5
A0140713		0.33	0.01	36.5	5.3	310	0.70	0.57	0.34	0.29	16.1	0.56	<5	0.3	0.12	3.4
A0140714		0.11	0.05	125.5	3.0	200	2.94	0.47	0.30	0.26	18.7	0.46	<5	0.2	0.11	1.7
A0140715		0.22	0.09	117.0	3.2	160	3.59	0.49	0.28	0.19	19.0	0.35	<5	0.5	0.09	1.9
A0140716		0.08	0.11	93.5	2.8	160	2.85	0.45	0.26	0.24	19.0	0.33	<5	0.2	0.11	1.6
A0140717		0.05	0.07	93.3	2.8	150	2.42	0.44	0.28	0.22	19.3	0.46	<5	0.2	0.09	1.5
A0140718		0.04	0.10	124.5	2.7	160	3.11	0.42	0.30	0.24	19.1	0.53	<5	0.2	0.10	1.5
A0140719		0.02	0.13	120.0	2.7	160	3.35	0.45	0.20	0.23	18.5	0.32	<5	0.2	0.11	1.4
A0140720		0.09	0.16	139.0	2.6	150	3.91	0.41	0.27	0.22	17.4	0.51	<5	0.2	0.11	1.2
A0140721		0.09	0.22	112.0	2.6	180	3.71	0.45	0.33	0.22	18.5	0.49	<5	0.2	0.12	1.3
A0140722		0.05	0.18	72.7	2.9	170	5.63	0.48	0.32	0.20	18.3	0.41	<5	0.2	0.11	1.6
A0140723		0.07	1.79	225	25.4	250	0.91	2.32	1.21	0.99	16.7	2.75	<5	2.1	0.50	11.7
A0140724		0.08	0.18	60.0	2.8	160	3.96	0.60	0.36	0.22	19.5	0.44	<5	0.3	0.13	1.5
A0140725		0.05	0.17	72.0	2.9	150	3.37	0.61	0.37	0.22	20.8	0.50	<5	0.3	0.13	1.4
A0140726		0.09	0.07	64.6	6.6	180	1.75	0.93	0.49	0.21	19.5	0.79	<5	0.2	0.17	5.6
A0140727		0.10	0.07	58.0	2.5	190	1.43	0.48	0.30	0.20	18.5	0.36	<5	0.2	0.10	1.4
A0140728		0.13	0.07	65.1	2.6	200	1.30	0.39	0.30	0.22	18.2	0.54	<5	0.2	0.10	1.4
A0140729		0.12	0.06	81.7	2.4	200	1.54	0.40	0.32	0.20	17.5	0.43	<5	0.2	0.09	1.2
A0140730		0.14	0.06	66.0	3.2	200	1.09	0.54	0.29	0.20	17.4	0.34	<5	0.2	0.11	2.4
A0140731		0.07	0.07	74.7	2.5	210	1.32	0.43	0.26	0.20	18.0	0.39	<5	0.2	0.10	1.4
A0140732		0.08	0.10	73.5	6.6	210	1.27	0.73	0.43	0.31	17.8	0.60	<5	0.2	0.14	4.5
A0140733		0.06	0.11	69.0	4.6	190	1.18	0.45	0.35	0.24	18.5	0.53	<5	0.2	0.11	2.5
A0140734		0.07	0.08	74.9	5.1	170	1.02	0.47	0.33	0.26	18.4	0.49	<5	0.6	0.11	2.8
A0140735		0.27	0.10	49.5	2.7	170	0.89	0.46	0.24	0.21	17.9	0.36	<5	0.2	0.10	1.4
A0140736		0.62	0.13	57.6	4.8	160	1.16	0.44	0.31	0.25	18.6	0.53	<5	0.5	0.11	2.8
A0140737		0.60	0.09	50.1	2.4	190	0.99	0.45	0.34	0.21	18.4	0.44	<5	0.2	0.09	1.4
A0140738		0.29	0.07	51.7	2.7	190	0.97	0.41	0.32	0.22	18.2	0.36	<5	0.2	0.08	1.5
A0140739		0.29	0.07	57.0	2.7	180	1.59	0.42	0.36	0.21	18.9	0.39	<5	0.2	0.09	1.5
A0140740		0.27	0.07	58.3	2.5	160	1.56	0.43	0.26	0.19	18.2	0.35	<5	0.2	0.08	1.4
A0140741		0.27	0.07	57.2	2.5	160	1.27	0.40	0.22	0.18	17.8	0.36	<5	0.2	0.08	1.4
A0140742		0.26	0.09	65.0	2.9	170	1.40	0.34	0.24	0.15	18.1	0.32	<5	0.2	0.08	1.7

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CERTIFICATE OF ANALYSIS TB19196902

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
A0140703		0.01	<0.2	0.7	0.22	1.1	0.09	<1	140.5	0.1	0.02	0.21	0.01	0.67	<5	<1
A0140704		0.18	5.4	53.4	18.65	21.6	3.28	3	51.8	0.5	0.21	5.89	0.15	7.72	86	4
A0140705		0.06	0.2	1.5	0.34	13.6	0.28	<1	254	0.1	0.05	0.12	0.05	0.08	247	1
A0140706		0.07	0.2	1.8	0.38	9.4	0.37	<1	268	0.1	0.08	0.08	0.06	<0.05	268	1
A0140707		0.03	<0.2	0.7	0.22	8.6	0.24	<1	189.0	<0.1	0.04	0.05	0.02	<0.05	112	<1
A0140708		0.04	0.2	0.9	0.23	12.5	0.20	<1	270	0.1	0.05	0.07	0.03	0.06	169	6
A0140709		0.07	0.2	1.3	0.27	3.0	0.28	<1	93.2	0.1	0.09	0.07	0.07	<0.05	346	1
A0140710		0.06	0.2	1.6	0.33	1.8	0.40	<1	90.6	0.1	0.07	0.08	0.06	<0.05	356	1
A0140711		0.07	0.3	1.6	0.39	7.1	0.37	<1	159.0	0.1	0.08	0.11	0.06	<0.05	290	1
A0140712		0.07	0.2	1.7	0.33	11.5	0.34	<1	175.5	0.1	0.07	0.08	0.06	<0.05	297	<1
A0140713		0.06	0.4	2.3	0.60	6.4	0.54	<1	328	0.1	0.09	1.03	0.05	0.08	331	1
A0140714		0.05	0.2	1.3	0.36	20.0	0.37	<1	296	0.1	0.07	0.06	0.05	<0.05	363	1
A0140715		0.05	0.3	1.6	0.34	18.7	0.37	<1	263	0.1	0.07	0.10	0.05	0.07	338	2
A0140716		0.06	0.2	1.5	0.31	10.3	0.31	<1	250	0.1	0.08	0.07	0.04	<0.05	357	<1
A0140717		0.05	0.2	1.3	0.32	13.4	0.30	<1	306	0.1	0.06	0.07	0.04	<0.05	397	<1
A0140718		0.05	0.2	1.2	0.29	16.9	0.34	<1	303	0.1	0.07	0.05	0.04	<0.05	414	1
A0140719		0.05	0.2	1.4	0.34	13.8	0.39	<1	299	0.4	0.06	0.07	0.05	<0.05	438	2
A0140720		0.05	0.2	1.3	0.29	18.1	0.29	<1	278	0.1	0.07	0.05	0.05	<0.05	439	2
A0140721		0.05	0.2	1.3	0.33	15.4	0.37	<1	252	0.1	0.08	0.07	0.06	<0.05	519	1
A0140722		0.05	0.2	1.5	0.35	9.7	0.33	<1	226	0.1	0.08	0.08	0.06	<0.05	579	1
A0140723		0.19	7.1	12.9	3.07	14.9	2.76	4	233	0.5	0.41	1.36	0.18	0.42	123	3
A0140724		0.06	0.3	1.6	0.36	6.3	0.44	<1	280	0.1	0.08	0.06	0.06	<0.05	742	1
A0140725		0.06	0.2	1.5	0.36	7.3	0.42	<1	230	0.1	0.08	0.05	0.05	<0.05	705	<1
A0140726		0.07	0.2	3.8	0.81	4.9	0.55	<1	224	0.1	0.10	0.09	0.07	<0.05	549	1
A0140727		0.05	0.2	1.2	0.31	4.0	0.28	<1	207	0.1	0.07	0.06	0.04	<0.05	475	<1
A0140728		0.05	0.2	1.4	0.34	6.2	0.33	<1	213	0.1	0.08	0.06	0.04	<0.05	453	<1
A0140729		0.06	<0.2	1.4	0.29	9.0	0.27	<1	210	0.1	0.07	0.06	0.06	<0.05	403	<1
A0140730		0.06	0.2	1.6	0.39	6.5	0.57	<1	231	0.1	0.08	0.07	0.06	<0.05	404	1
A0140731		0.05	0.2	1.4	0.28	7.7	0.34	<1	217	0.1	0.06	0.05	0.06	<0.05	387	1
A0140732		0.07	0.5	3.3	0.76	6.5	0.86	<1	208	0.1	0.10	0.75	0.08	<0.05	407	1
A0140733		0.07	0.3	2.0	0.53	5.4	0.36	<1	221	0.1	0.09	0.44	0.04	0.05	324	<1
A0140734		0.05	1.1	2.5	0.60	5.4	0.54	<1	238	0.2	0.09	0.80	0.05	0.22	365	1
A0140735		0.06	0.2	1.4	0.32	2.7	0.38	<1	219	0.1	0.07	0.23	0.04	0.24	413	<1
A0140736		0.05	0.4	2.5	0.55	4.1	0.49	<1	218	0.1	0.08	0.32	0.05	0.13	461	1
A0140737		0.05	0.2	1.4	0.30	3.3	0.35	<1	225	0.1	0.07	0.08	0.04	<0.05	419	<1
A0140738		0.04	0.2	1.5	0.33	4.9	0.30	<1	266	0.1	0.06	0.06	0.04	<0.05	359	1
A0140739		0.04	0.2	1.5	0.31	4.8	0.30	<1	257	0.1	0.07	0.06	0.05	0.05	404	6
A0140740		0.04	0.2	1.3	0.29	4.3	0.36	<1	259	0.1	0.05	0.05	0.05	<0.05	367	1
A0140741		0.04	<0.2	1.3	0.33	3.7	0.34	<1	265	0.1	0.07	0.05	0.04	<0.05	335	1
A0140742		0.04	0.2	1.7	0.38	5.1	0.37	<1	250	0.1	0.07	0.08	0.04	<0.05	337	1

Comments: ***** ORIGINALLY FROM WO: TB19140113 MZI *****

***** See Appendix Page for comments regarding this certificate *****

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

Finalized Date: 28-AUG-2019
Account: MZI

Project: EMB

CERTIFICATE OF ANALYSIS TB19196902

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
A0140703		0.6	0.05	3	0.4	0.03	0.014	<0.005	<0.001	<0.05	0.3	<0.01	0.02	<0.5	0.6	2
A0140704		10.3	1.03	72	6.0	14.65	0.063	0.101	0.003	0.38	2.9	0.40	0.04	0.9	<0.5	62
A0140705		2.5	0.32	8	0.3	0.06	<0.005	<0.005	<0.001	<0.05	0.2	0.04	<0.02	<0.5	<0.5	50
A0140706		3.3	0.36	7	0.2	0.07	<0.005	<0.005	<0.001	<0.05	0.2	0.04	<0.02	<0.5	0.7	46
A0140707		1.5	0.17	3	0.4	0.20	<0.005	<0.005	<0.001	<0.05	0.3	0.20	<0.02	<0.5	<0.5	43
A0140708		1.8	0.32	5	0.5	0.24	<0.005	<0.005	<0.001	<0.05	0.3	0.18	<0.02	<0.5	<0.5	49
A0140709		3.2	0.42	7	1.0	0.13	<0.005	<0.005	0.001	<0.05	0.2	0.03	<0.02	<0.5	<0.5	87
A0140710		3.3	0.48	8	0.1	0.15	<0.005	<0.005	<0.001	<0.05	0.3	0.04	<0.02	<0.5	0.7	85
A0140711		3.1	0.40	8	0.2	0.04	<0.005	<0.005	<0.001	<0.05	0.2	0.03	<0.02	<0.5	<0.5	69
A0140712		3.1	0.34	7	0.2	0.03	<0.005	<0.005	<0.001	<0.05	<0.2	0.03	<0.02	<0.5	0.6	61
A0140713		3.2	0.37	9	0.1	0.03	<0.005	0.006	<0.001	<0.05	0.2	0.02	<0.02	<0.5	0.5	54
A0140714		2.6	0.36	7	0.2	0.02	<0.005	<0.005	<0.001	<0.05	0.2	0.02	<0.02	<0.5	<0.5	57
A0140715		2.5	0.27	17	0.2	0.01	<0.005	<0.005	0.001	<0.05	0.2	0.01	<0.02	<0.5	<0.5	48
A0140716		2.5	0.32	6	0.2	0.01	<0.005	<0.005	0.001	<0.05	0.2	0.01	<0.02	<0.5	<0.5	52
A0140717		2.5	0.32	7	0.2	0.01	<0.005	<0.005	0.001	<0.05	0.2	0.02	<0.02	<0.5	<0.5	50
A0140718		2.6	0.30	7	0.1	0.02	<0.005	<0.005	0.001	<0.05	0.3	0.02	<0.02	<0.5	<0.5	55
A0140719		2.6	0.33	7	0.2	0.02	<0.005	<0.005	0.001	<0.05	0.3	0.01	<0.02	<0.5	<0.5	56
A0140720		2.6	0.25	7	0.2	0.01	<0.005	<0.005	0.001	<0.05	0.3	0.01	<0.02	<0.5	<0.5	60
A0140721		2.9	0.39	7	0.4	0.01	<0.005	<0.005	0.001	<0.05	0.5	0.01	<0.02	<0.5	<0.5	69
A0140722		3.0	0.40	8	0.2	0.01	<0.005	0.005	0.001	<0.05	0.4	0.01	<0.02	<0.5	0.8	69
A0140723		12.4	1.23	93	4.0	0.66	0.009	0.069	0.006	0.29	5.2	0.51	0.09	1.9	0.9	118
A0140724		3.1	0.37	9	0.2	0.01	<0.005	0.006	0.001	<0.05	0.4	0.01	<0.02	<0.5	0.6	73
A0140725		3.3	0.39	8	0.2	0.02	<0.005	0.005	0.001	<0.05	0.5	0.02	<0.02	<0.5	0.6	68
A0140726		4.5	0.32	9	0.3	0.01	<0.005	<0.005	0.001	<0.05	0.5	0.01	<0.02	<0.5	0.5	61
A0140727		2.7	0.33	7	0.2	0.01	<0.005	0.005	0.001	<0.05	0.4	0.01	<0.02	<0.5	<0.5	64
A0140728		2.7	0.36	7	0.2	0.03	<0.005	<0.005	<0.001	<0.05	0.3	0.01	<0.02	<0.5	<0.5	64
A0140729		2.6	0.30	6	0.1	0.02	<0.005	<0.005	<0.001	<0.05	0.2	0.01	<0.02	<0.5	0.6	61
A0140730		2.9	0.34	7	0.2	0.03	<0.005	<0.005	<0.001	<0.05	0.2	0.01	<0.02	<0.5	<0.5	57
A0140731		2.6	0.31	7	0.1	0.03	<0.005	<0.005	0.001	<0.05	0.3	0.01	<0.02	<0.5	<0.5	58
A0140732		3.7	0.36	8	0.3	0.02	<0.005	<0.005	0.001	<0.05	0.3	0.01	<0.02	<0.5	<0.5	60
A0140733		3.0	0.38	8	0.3	0.02	<0.005	<0.005	<0.001	<0.05	0.3	0.01	<0.02	<0.5	0.5	54
A0140734		3.0	0.33	19	0.4	0.04	<0.005	<0.005	<0.001	<0.05	0.3	0.04	<0.02	<0.5	0.5	54
A0140735		2.4	0.31	8	0.3	0.04	<0.005	<0.005	0.001	<0.05	0.6	0.01	<0.02	<0.5	0.7	59
A0140736		2.7	0.31	20	0.2	0.08	<0.005	0.009	<0.001	<0.05	0.6	0.03	<0.02	<0.5	<0.5	61
A0140737		2.4	0.33	7	0.3	0.05	<0.005	0.006	<0.001	<0.05	0.5	0.05	<0.02	<0.5	<0.5	55
A0140738		2.3	0.30	6	0.2	0.03	<0.005	<0.005	<0.001	<0.05	0.3	0.01	<0.02	<0.5	<0.5	51
A0140739		2.5	0.37	7	0.2	0.02	<0.005	<0.005	<0.001	<0.05	0.4	0.01	<0.02	<0.5	<0.5	50
A0140740		2.1	0.25	6	0.2	0.03	<0.005	<0.005	<0.001	<0.05	0.4	0.01	<0.02	<0.5	<0.5	47
A0140741		2.1	0.27	6	0.3	0.03	<0.005	<0.005	<0.001	<0.05	0.3	0.01	<0.02	<0.5	<0.5	45
A0140742		2.1	0.28	6	0.2	0.59	<0.005	<0.005	0.003	<0.05	0.3	0.05	<0.02	<0.5	<0.5	43

Comments: ***** ORIGINALLY FROM WO: TB19140113 MZI *****

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

Finalized Date: 28-AUG-2019
Account: MZI

Project: EMB

CERTIFICATE OF ANALYSIS TB19196902

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
A0140703		5	10	<1	6	4	<1	58	0.004
A0140704		88	10	6	85	52	5	46	3.09
A0140705		58	20	<1	228	<2	15	55	0.132
A0140706		48	20	1	228	<2	24	50	0.141
A0140707		108	20	<1	191	<2	14	47	0.254
A0140708		136	30	1	244	<2	15	60	0.224
A0140709		74	20	<1	389	<2	30	94	0.161
A0140710		37	20	<1	383	<2	25	89	0.214
A0140711		71	30	<1	307	<2	20	79	0.140
A0140712		47	30	<1	295	<2	18	72	0.106
A0140713		5	20	<1	220	2	20	54	0.088
A0140714		58	20	1	204	<2	19	58	0.101
A0140715		49	20	<1	167	<2	17	49	0.154
A0140716		46	10	<1	174	<2	18	54	0.154
A0140717		46	10	<1	171	<2	18	51	0.116
A0140718		64	20	1	181	<2	15	56	0.191
A0140719		65	20	<1	178	<2	16	59	0.238
A0140720		59	20	<1	188	<2	18	60	0.289
A0140721		83	20	<1	214	<2	19	69	0.372
A0140722		92	20	<1	213	<2	25	65	0.329
A0140723		4690	20	5	4510	24	12	107	3.39
A0140724		116	20	<1	222	<2	25	65	0.337
A0140725		100	20	<1	216	<2	24	59	0.283
A0140726		78	10	<1	198	<2	27	58	0.263
A0140727		71	10	<1	210	<2	24	66	0.249
A0140728		72	10	<1	225	<2	20	65	0.258
A0140729		52	20	<1	210	<2	22	64	0.167
A0140730		50	10	<1	198	<2	19	60	0.153
A0140731		50	10	1	205	<2	22	63	0.166
A0140732		52	10	<1	210	<2	20	61	0.183
A0140733		46	10	<1	175	<2	21	55	0.209
A0140734		46	10	<1	175	<2	23	58	0.193
A0140735		53	10	1	192	<2	21	59	0.333
A0140736		70	20	1	192	<2	25	59	0.349
A0140737		61	20	<1	177	<2	29	62	0.293
A0140738		42	10	<1	186	<2	26	57	0.199
A0140739		53	10	<1	183	<2	26	56	0.278
A0140740		37	10	<1	170	<2	23	54	0.249
A0140741		40	10	<1	169	<2	21	54	0.134
A0140742		35	20	<1	163	<2	23	50	0.126

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

Finalized Date: 28-AUG-2019
Account: MZI

Project: EMB

CERTIFICATE OF ANALYSIS TB19196902

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
A0140743		14.05	0.22	0.16	27.5	20.9	0.04	0.04	<0.002	0.01	0.05	0.01	0.02	0.03	35.5	98.53
A0140744		47.8	20.1	9.03	11.35	6.08	2.04	0.20	0.028	0.39	0.10	0.02	0.03	0.01	2.31	99.49
A0140745		47.8	20.2	9.45	11.30	6.08	2.04	0.26	0.027	0.45	0.11	0.01	0.03	0.01	2.02	99.79
A0140746		48.2	20.3	9.66	10.10	6.63	2.18	0.39	0.027	0.44	0.12	<0.01	0.03	0.01	2.55	100.64
A0140747		47.3	17.80	11.30	9.49	7.83	1.98	0.53	0.036	0.50	0.13	0.02	0.03	0.01	3.02	99.98
A0140748		46.3	14.50	14.75	8.32	9.84	1.33	0.31	0.048	0.68	0.16	0.01	0.01	0.01	3.11	99.38
A0140749		46.9	11.35	17.70	6.55	12.30	0.98	0.25	0.075	0.76	0.20	0.02	<0.01	<0.01	3.41	100.50
A0140750		45.2	9.78	18.30	6.22	13.10	0.73	0.14	0.085	0.70	0.21	<0.01	<0.01	<0.01	3.84	98.31
A0140751		46.8	10.10	16.50	5.92	13.05	0.81	0.09	0.083	0.57	0.19	0.01	<0.01	<0.01	4.45	98.57
A0140752		47.5	12.40	13.80	7.50	11.55	1.39	0.27	0.062	0.44	0.18	0.01	0.01	0.01	3.40	98.52
A0140753		49.2	17.65	9.04	10.60	7.05	2.45	0.57	0.017	0.37	0.12	0.01	0.03	0.01	2.26	99.38

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

Finalized Date: 28-AUG-2019
Account: MZI

Project: EMB

CERTIFICATE OF ANALYSIS TB19196902

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
A0140743		9.03	0.01	274	1.8	<10	0.27	0.13	0.06	<0.03	0.4	0.13	<5	<0.2	0.02	1.2
A0140744		0.23	0.12	65.5	2.8	190	1.26	0.47	0.24	0.22	17.8	0.38	<5	0.2	0.08	1.5
A0140745		0.10	0.05	72.4	2.5	190	1.53	0.39	0.32	0.20	17.7	0.31	<5	0.2	0.10	1.4
A0140746		0.10	0.05	89.0	2.5	190	2.38	0.38	0.28	0.21	18.3	0.27	<5	0.2	0.09	1.5
A0140747		0.13	0.05	93.1	2.5	250	2.37	0.43	0.28	0.19	16.7	0.38	<5	0.2	0.10	1.5
A0140748		0.13	0.07	61.6	2.2	340	1.73	0.41	0.34	0.17	17.1	0.40	<5	0.3	0.11	1.3
A0140749		0.05	0.05	44.7	2.2	530	1.60	0.42	0.34	0.13	15.3	0.31	<5	0.2	0.10	1.2
A0140750		0.09	0.06	24.1	1.5	610	1.24	0.51	0.31	0.15	14.6	0.34	<5	0.2	0.11	0.9
A0140751		0.19	0.05	13.9	2.4	590	1.07	0.48	0.36	0.12	14.1	0.30	<5	0.2	0.10	1.3
A0140752		0.09	0.05	50.2	1.8	440	1.87	0.42	0.36	0.13	14.8	0.40	<5	0.2	0.11	1.0
A0140753		0.11	0.07	113.5	3.0	120	2.77	0.74	0.41	0.26	17.7	0.67	<5	0.3	0.14	1.6

Comments: ***** ORIGINALLY FROM WO: TB19140113 MZI *****

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

Finalized Date: 28-AUG-2019
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Project: EMB

CERTIFICATE OF ANALYSIS TB19196902

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
A0140743		0.01	0.2	0.8	0.19	1.3	0.16	<1	174.5	0.1	0.01	0.12	0.02	0.30	7	5
A0140744		0.04	0.2	1.3	0.34	4.5	0.37	<1	240	0.1	0.07	0.08	0.05	<0.05	313	1
A0140745		0.04	0.2	1.4	0.34	6.6	0.25	<1	244	0.1	0.07	0.05	0.05	<0.05	365	<1
A0140746		0.05	0.2	1.4	0.32	11.1	0.34	<1	250	0.1	0.06	0.07	0.05	<0.05	331	1
A0140747		0.06	0.2	1.4	0.31	17.0	0.43	<1	238	0.1	0.07	0.09	0.04	0.23	391	1
A0140748		0.06	0.2	1.3	0.23	8.8	0.33	<1	146.5	0.1	0.06	<0.05	0.05	0.05	577	1
A0140749		0.06	0.4	1.3	0.26	7.5	0.35	<1	78.4	0.1	0.06	0.13	0.06	0.13	627	<1
A0140750		0.08	0.2	0.8	0.22	4.3	0.19	<1	46.8	0.1	0.07	<0.05	0.06	<0.05	655	<1
A0140751		0.08	0.8	1.3	0.28	2.8	0.31	<1	44.9	0.1	0.07	0.28	0.07	0.14	510	1
A0140752		0.06	<0.2	1.2	0.23	8.0	0.36	<1	123.0	0.1	0.06	0.05	0.04	<0.05	404	1
A0140753		0.07	0.2	1.9	0.43	16.8	0.60	<1	255	0.1	0.11	0.07	0.08	0.05	307	1

Comments: ***** ORIGINALLY FROM WO: TB19140113 MZI *****

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

Finalized Date: 28-AUG-2019
Account: MZI

Project: EMB

CERTIFICATE OF ANALYSIS TB19196902

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
A0140743		0.7	0.05	3	0.6	0.06	<0.005	<0.005	<0.001	0.06	0.4	<0.01	0.03	<0.5	<0.5	<1
A0140744		2.4	0.32	6	0.2	0.29	<0.005	<0.005	<0.001	<0.05	0.3	0.14	<0.02	<0.5	<0.5	44
A0140745		2.4	0.36	7	0.2	<0.01	<0.005	<0.005	<0.001	<0.05	0.2	0.01	<0.02	<0.5	<0.5	46
A0140746		2.2	0.20	6	0.2	0.06	<0.005	<0.005	<0.001	<0.05	0.2	0.01	<0.02	<0.5	<0.5	49
A0140747		2.4	0.33	6	0.2	0.02	<0.005	<0.005	<0.001	<0.05	0.2	0.01	<0.02	<0.5	<0.5	56
A0140748		2.7	0.34	6	0.2	0.01	<0.005	<0.005	0.001	<0.05	0.3	0.01	<0.02	<0.5	<0.5	75
A0140749		2.8	0.40	7	0.2	0.03	<0.005	0.005	0.001	<0.05	0.3	0.01	<0.02	<0.5	<0.5	95
A0140750		2.9	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	103
A0140751		2.9	0.54	7	0.2	0.04	<0.005	0.006	<0.001	<0.05	0.2	0.02	<0.02	<0.5	<0.5	101
A0140752		2.8	0.40	7	0.2	0.06	<0.005	<0.005	<0.001	<0.05	0.2	0.03	<0.02	<0.5	<0.5	85
A0140753		3.8	0.51	8	0.2	0.06	<0.005	<0.005	<0.001	<0.05	0.4	0.06	0.02	<0.5	<0.5	48

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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
A0140743		1	20	<1	<1	10	<1	25	0.007
A0140744		43	10	<1	180	<2	26	52	0.116
A0140745		37	10	<1	188	<2	24	52	0.115
A0140746		31	20	<1	183	<2	22	60	0.107
A0140747		43	20	<1	216	<2	28	63	0.119
A0140748		57	20	<1	306	<2	41	84	0.186
A0140749		62	20	<1	385	<2	52	109	0.123
A0140750		91	30	<1	451	<2	48	112	0.176
A0140751		58	30	<1	397	<2	43	102	0.102
A0140752		81	20	<1	342	<2	57	84	0.108
A0140753		117	10	<1	214	<2	38	51	0.192

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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		