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: JEAN PAUL VIENNEAU
525 SECORD STREET
ESPANOLA ON P5E 1L9

Finalized Date: 18-FEB-2021
Account: JPVNVMAK

QC CERTIFICATE SD21012306

This report is for 5 samples of Rock submitted to our lab in Sudbury, ON, Canada on 18-JAN-2021.

The following have access to data associated with this certificate:

JEAN PAUL VIENNEAU		

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
DISP-01	Disposal of all sample fractions
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP61	33 element four acid ICP-AES	ICP-AES
PGM-ICP23	Pt, Pd, Au 30g FA ICP	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:
Saa Traxler, General Manager, North Vancouver

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QC CERTIFICATE OF ANALYSIS SD21012306

Sample Description / Method / Analyte / Units / LOD	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01
STANDARDS															
CDN-CM-34				3.9	6.66	104	500	1.1	6	2.14	1.1	41	243	5910	4.86
Target Range - Lower Bound				2.5	5.88	90	430	<0.5	<2	1.83	<0.5	37	217	5370	4.26
Upper Bound				4.9	7.21	122	610	2.1	8	2.25	2.0	47	267	6190	5.23
EMOG-17				67.8	4.78	592	160	1.9	10	1.94	19.6	756	56	8480	4.94
Target Range - Lower Bound				60.4	4.18	517	310	0.7	<2	1.72	17.7	685	49	7740	4.42
Upper Bound				75.0	5.13	643	440	2.9	10	2.12	22.7	839	62	8910	5.42
G919-10	7.54	<0.005	<0.001												
Target Range - Lower Bound	7.12														
Upper Bound	8.04														
OREAS 682	0.073	0.873	0.447												
Target Range - Lower Bound	0.070	0.811	0.416												
Upper Bound	0.081	0.925	0.472												
PK03	5.16	4.52	6.16												
Target Range - Lower Bound	4.73	4.03	5.67												
Upper Bound	5.34	4.55	6.39												
PMP-18	0.295	<0.005	0.001												
Target Range - Lower Bound	0.289	<0.005	<0.001												
Upper Bound	0.327	0.010	0.002												
BLANKS															
BLANK				<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01
Target Range - Lower Bound				<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01
Upper Bound				1.0	0.02	10	20	1.0	4	0.02	1.0	2	2	2	0.02
BLANK	<0.001	<0.005	<0.001												
Target Range - Lower Bound	<0.001	<0.005	<0.001												
Upper Bound	0.002	0.010	0.002												

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QC CERTIFICATE OF ANALYSIS SD21012306

Sample Description	Method / Analyte / Units / LOD	ME-ICP61 Ga ppm 10	ME-ICP61 K % 0.01	ME-ICP61 La ppm 10	ME-ICP61 Mg % 0.01	ME-ICP61 Mn ppm 5	ME-ICP61 Mo ppm 1	ME-ICP61 Na % 0.01	ME-ICP61 Ni ppm 1	ME-ICP61 P ppm 10	ME-ICP61 Pb ppm 2	ME-ICP61 S % 0.01	ME-ICP61 Sb ppm 5	ME-ICP61 Sc ppm 1	ME-ICP61 Sr ppm 1	ME-ICP61 Th ppm 20
STANDARDS																
CDN-CM-34		20	2.91	10	3.62	457	294	0.78	253	1220	28	3.02	8	16	221	<20
Target Range - Lower Bound		<10	2.51	<10	3.29	399	269	0.66	220	1110	19	2.70	<5	14	204	<20
Upper Bound		40	3.09	40	4.05	499	331	0.83	271	1370	29	3.32	17	19	251	40
EMOG-17		10	1.72	20	0.93	750	1080	1.15	7800	800	7150	3.25	778	8	202	<20
Target Range - Lower Bound		<10	1.49	<10	0.86	670	996	0.99	6820	700	6570	2.91	638	6	184	<20
Upper Bound		30	1.85	40	1.08	830	1220	1.23	8330	880	8030	3.57	874	10	227	50
G919-10																
Target Range - Lower Bound																
Upper Bound																
OREAS 682																
Target Range - Lower Bound																
Upper Bound																
PK03																
Target Range - Lower Bound																
Upper Bound																
PMP-18																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK		<10	<0.01	<10	<0.01	<5	1	<0.01	<1	<10	<2	<0.01	<5	<1	<1	<20
Target Range - Lower Bound		<10	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<5	<1	<1	<20
Upper Bound		20	0.02	20	0.02	10	2	0.02	2	20	4	0.02	10	2	2	40
BLANK																
Target Range - Lower Bound																
Upper Bound																

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Sample Description	Method / Analyte / Units / LOD	ME-ICP61 Ti % 0.01	ME-ICP61 Tl ppm 10	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2
STANDARDS							
CDN-CM-34		0.49	<10	<10	164	20	204
Target Range - Lower Bound		0.43	<10	<10	149	<10	176
Upper Bound		0.55	20	20	184	50	219
EMOG-17		0.32	<10	<10	73	<10	7350
Target Range - Lower Bound		0.28	<10	<10	67	<10	6800
Upper Bound		0.36	20	20	84	20	8320
G919-10							
Target Range - Lower Bound							
Upper Bound							
OREAS 682							
Target Range - Lower Bound							
Upper Bound							
PK03							
Target Range - Lower Bound							
Upper Bound							
PMP-18							
Target Range - Lower Bound							
Upper Bound							
BLANKS							
BLANK		<0.01	<10	<10	<1	<10	<2
Target Range - Lower Bound		<0.01	<10	<10	<1	<10	<2
Upper Bound		0.02	20	20	2	20	4
BLANK							
Target Range - Lower Bound							
Upper Bound							

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Sample Description / Method / Analyte / Units / LOD	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01
DUPLICATES															
ORIGINAL	0.118	<0.005	<0.001												
DUP	0.121	<0.005	<0.001												
Target Range - Lower Bound	0.113	<0.005	<0.001												
Upper Bound	0.126	0.010	0.002												
ORIGINAL				<0.5	7.78	<5	130	2.7	<2	0.45	<0.5	9	13	9	4.18
DUP				<0.5	8.00	6	130	2.8	<2	0.47	<0.5	9	15	10	4.31
Target Range - Lower Bound				<0.5	7.49	<5	110	2.1	<2	0.43	<0.5	8	12	8	4.02
Upper Bound				1.0	8.29	10	150	3.4	4	0.49	1.0	10	16	11	4.47
SAMPLE 5	0.016	<0.005	0.005												
DUP	0.014	<0.005	0.004												
Target Range - Lower Bound	0.013	<0.005	0.003												
Upper Bound	0.017	0.010	0.006												
ORIGINAL	<0.001	<0.005	0.016												
DUP	<0.001	<0.005	0.015												
Target Range - Lower Bound	<0.001	<0.005	0.014												
Upper Bound	0.002	0.010	0.017												

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		DUPLICATES														
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL		30	0.32	40	0.60	1575	1	4.71	5	150	11	0.07	<5	5	93	<20
DUP		30	0.33	40	0.61	1640	1	4.76	7	160	12	0.07	<5	6	94	<20
Target Range - Lower Bound		20	0.30	30	0.56	1520	<1	4.49	5	140	9	0.06	<5	4	88	<20
Upper Bound		40	0.35	50	0.65	1695	2	4.98	7	170	14	0.08	10	7	99	40
SAMPLE 5																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																

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		DUPLICATES					
ORIGINAL							
DUP							
Target Range - Lower Bound							
Upper Bound							
ORIGINAL		0.21	<10	<10	16	<10	196
DUP		0.22	<10	<10	16	<10	197
Target Range - Lower Bound		0.19	<10	<10	14	<10	185
Upper Bound		0.24	20	20	18	20	208
SAMPLE 5							
DUP							
Target Range - Lower Bound							
Upper Bound							
ORIGINAL							
DUP							
Target Range - Lower Bound							
Upper Bound							

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CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.

Applies to Method:	CRU-31	DISP-01	LOG-22	PUL-31
	PUL-QC	SPL-21	WEI-21	

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

Applies to Method:	ME-ICP61	PGM-ICP23