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: 28-APR-2021
Account: JPVNVMAK

QC CERTIFICATE SD21084221

This report is for 1 sample of Rock submitted to our lab in Sudbury, ON, Canada on 7-APR-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
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
DISP-01	Disposal of all sample fractions
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 SD21084221

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															
MRGeo08				4.5	7.86	34	1120	3.3	<2	2.80	2.3	20	99	641	4.04
Target Range - Lower Bound				3.2	6.64	21	920	2.2	<2	2.35	1.1	17	81	586	3.55
Upper Bound				5.6	8.14	45	1270	4.5	5	2.90	3.4	23	102	676	4.37
OREAS 602				>100	4.48	704	130	0.8	62	0.65	26.1	10	32	5240	2.24
Target Range - Lower Bound				107.5	3.92	579	590	<0.5	49	0.55	21.7	7	28	4790	2.01
Upper Bound				100.0	4.82	719	830	1.8	65	0.69	27.7	12	36	5510	2.47
OREAS 602b	2.32	<0.005	0.002												
Target Range - Lower Bound															
Upper Bound															
OREAS 682	0.075	0.886	0.442												
Target Range - Lower Bound	0.070	0.811	0.416												
Upper Bound	0.081	0.925	0.472												
PK03	5.18	4.41	6.11												
Target Range - Lower Bound	4.73	4.03	5.67												
Upper Bound	5.34	4.55	6.39												
PMP-18	0.307	<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	0.002	<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 SD21084221

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															
MRGeo08	20	3.25	30	1.38	571	14	2.07	720	1080	1100	0.31	<5	11	309	20
Target Range - Lower Bound	<10	2.79	<10	1.17	497	12	1.76	621	930	969	0.27	<5	10	276	<20
Upper Bound	40	3.43	60	1.45	619	18	2.18	761	1160	1190	0.35	15	15	340	60
OREAS 602	20	0.70	10	0.19	231	4	0.45	60	580	1055	2.13	85	4	460	<20
Target Range - Lower Bound	<10	0.60	<10	0.17	198	2	0.40	53	500	918	1.90	61	2	417	<20
Upper Bound	40	0.76	40	0.23	253	7	0.51	67	640	1125	2.34	97	6	511	50
OREAS 602b															
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							
MRGeo08		0.51	<10	<10	112	<10	844
Target Range - Lower Bound		0.44	<10	<10	97	<10	722
Upper Bound		0.56	20	30	121	30	886
OREAS 602		0.22	<10	<10	33	10	4260
Target Range - Lower Bound		0.18	<10	<10	29	<10	3770
Upper Bound		0.24	20	20	37	30	4610
OREAS 602b							
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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QC CERTIFICATE OF ANALYSIS SD21084221

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	0.023	<0.005	<0.001												
DUP	0.021	<0.005	<0.001												
Target Range - Lower Bound	0.020	<0.005	<0.001												
Upper Bound	0.024	0.010	0.002												
ORIGINAL	0.009	<0.005	<0.001												
DUP	0.012	<0.005	<0.001												
Target Range - Lower Bound	0.009	<0.005	<0.001												
Upper Bound	0.012	0.010	0.002												
ORIGINAL				<0.5	8.08	9	680	1.4	<2	1.31	0.5	12	37	29	3.29
DUP				<0.5	8.12	12	670	1.4	<2	1.31	<0.5	13	37	28	3.27
Target Range - Lower Bound				<0.5	7.69	<5	610	0.8	<2	1.23	<0.5	11	34	27	3.11
Upper Bound				1.0	8.52	16	740	2.0	4	1.39	1.0	14	40	30	3.45
ORIGINAL	0.014	<0.005	0.001												
DUP	0.010	<0.005	0.001												
Target Range - Lower Bound	0.010	<0.005	<0.001												
Upper Bound	0.014	0.010	0.002												

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		DUPLICATES														
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL		20	3.44	30	1.24	455	1	0.62	29	260	26	0.17	<5	12	118	<20
DUP		20	3.38	30	1.23	456	1	0.62	30	270	10	0.16	<5	12	118	<20
Target Range - Lower Bound		<10	3.23	20	1.16	428	<1	0.58	27	240	15	0.15	<5	10	111	<20
Upper Bound		30	3.59	40	1.31	483	2	0.66	32	290	21	0.18	10	14	125	40
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																

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		DUPLICATES					
ORIGINAL							
DUP							
Target Range - Lower Bound							
Upper Bound							
ORIGINAL							
DUP							
Target Range - Lower Bound							
Upper Bound							
ORIGINAL		0.34	<10	<10	70	<10	181
DUP		0.33	<10	<10	69	<10	108
Target Range - Lower Bound		0.31	<10	<10	65	<10	135
Upper Bound		0.36	20	20	74	20	154
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	CRU-QC	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