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: 16-MAR-2021
This copy reported on
17-MAR-2021
Account: JPVNVMAK

QC CERTIFICATE SD21034205

This report is for 4 samples of Rock submitted to our lab in Sudbury, ON, Canada on 12-FEB-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-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
DISP-01	Disposal of all sample fractions

ANALYTICAL PROCEDURES

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

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QC CERTIFICATE OF ANALYSIS SD21034205

Sample Description	Method / Analyte / Units / LOD	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	ME-ICP61 Ga ppm 10	ME-ICP61 K % 0.01	ME-ICP61 La ppm 10
STANDARDS																
CDN-CM-34		4.1	6.80	108	520	1.1	3	2.19	1.0	44	252	6010	4.88	20	2.89	10
Target Range - Lower Bound		2.5	5.88	90	430	<0.5	<2	1.83	<0.5	37	217	5370	4.26	<10	2.51	<10
Upper Bound		4.9	7.21	122	610	2.1	8	2.25	2.0	47	267	6190	5.23	40	3.09	40
EMOG-17		70.5	4.80	601	110	1.9	4	1.98	20.5	794	59	8570	5.01	10	1.72	20
Target Range - Lower Bound		60.4	4.18	517	310	0.7	<2	1.72	17.7	685	49	7740	4.42	<10	1.49	<10
Upper Bound		75.0	5.13	643	440	2.9	10	2.12	22.7	839	62	8910	5.42	30	1.85	40
OREAS 682																
Target Range - Lower Bound																
Upper Bound																
PK03																
Target Range - Lower Bound																
Upper Bound																
PMP-18																
Target Range - Lower Bound																
Upper Bound																
SJ95																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK		<0.5	<0.01	<5	<10	<0.5	2	<0.01	<0.5	<1	<1	<1	<0.01	<10	<0.01	<10
Target Range - Lower Bound		<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10	<0.01	<10
Upper Bound		1.0	0.02	10	20	1.0	4	0.02	1.0	2	2	2	0.02	20	0.02	20
BLANK																
Target Range - Lower Bound																
Upper Bound																

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Sample Description	Method / Analyte / Units / LOD	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	ME-ICP61 Ti % 0.01	ME-ICP61 Tl ppm 10	ME-ICP61 U ppm 10
STANDARDS																
CDN-CM-34		3.73	460	302	0.76	254	1270	26	3.16	<5	16	223	<20	0.51	<10	<10
Target Range - Lower Bound		3.29	399	269	0.66	220	1110	19	2.70	<5	14	204	<20	0.43	<10	<10
Upper Bound		4.05	499	331	0.83	271	1370	29	3.32	17	19	251	40	0.55	20	20
EMOG-17		0.96	765	1100	1.13	7850	840	7450	3.36	835	8	205	<20	0.33	<10	<10
Target Range - Lower Bound		0.86	670	996	0.99	6820	700	6570	2.91	638	6	184	<20	0.28	<10	<10
Upper Bound		1.08	830	1220	1.23	8330	880	8030	3.57	874	10	227	50	0.36	20	20
OREAS 682																
Target Range - Lower Bound																
Upper Bound																
PK03																
Target Range - Lower Bound																
Upper Bound																
PMP-18																
Target Range - Lower Bound																
Upper Bound																
SJ95																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK		<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<5	<1	1	<20	<0.01	<10	<10
Target Range - Lower Bound		<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<5	<1	<1	<20	<0.01	<10	<10
Upper Bound		0.02	10	2	0.02	2	20	4	0.02	10	2	2	40	0.02	20	20
BLANK																
Target Range - Lower Bound																
Upper Bound																

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Sample Description	Method / Analyte / Units / LOD	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001
STANDARDS							
CDN-CM-34		167	20	212			
Target Range - Lower Bound		149	<10	176			
Upper Bound		184	50	219			
EMOG-17		75	<10	7800			
Target Range - Lower Bound		67	<10	6800			
Upper Bound		84	20	8320			
OREAS 682					0.078	0.879	0.443
Target Range - Lower Bound					0.070	0.811	0.416
Upper Bound					0.081	0.925	0.472
PK03					5.04	4.27	5.78
Target Range - Lower Bound					4.73	4.03	5.67
Upper Bound					5.34	4.55	6.39
PMP-18					0.301	<0.005	<0.001
Target Range - Lower Bound					0.289	<0.005	<0.001
Upper Bound					0.327	0.010	0.002
SJ95					2.81	<0.005	<0.001
Target Range - Lower Bound							
Upper Bound							
BLANKS							
BLANK		<1	<10	<2			
Target Range - Lower Bound		<1	<10	<2			
Upper Bound		2	20	4			
BLANK					0.003	<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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		DUPLICATES														
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL		0.5	0.11	6	10	0.5	<2	0.63	5.6	<1	38	140	25.4	<10	<0.01	<10
DUP		0.5	0.11	6	10	<0.5	<2	0.63	5.3	<1	32	136	25.4	<10	<0.01	<10
Target Range - Lower Bound		<0.5	0.09	<5	<10	<0.5	<2	0.59	4.7	<1	32	132	24.1	<10	<0.01	<10
Upper Bound		1.0	0.13	10	20	1.0	4	0.67	6.2	2	38	144	26.7	20	0.02	20

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		DUPLICATES														
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL		0.05	256	5	0.02	3	190	11	0.11	<5	<1	9	<20	<0.01	<10	<10
DUP		0.05	264	4	0.02	4	190	12	0.11	<5	<1	9	<20	<0.01	<10	<10
Target Range - Lower Bound		0.04	242	3	<0.01	2	170	9	0.09	<5	<1	8	<20	<0.01	<10	<10
Upper Bound		0.06	278	6	0.03	5	210	14	0.13	10	2	10	40	0.02	20	20

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Sample Description / Method / Analyte / Units / LOD	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001
DUPLICATES						
ORIGINAL				1.935	<0.005	<0.001
DUP				1.765	0.016	0.003
Target Range - Lower Bound				1.755	<0.005	<0.001
Upper Bound				1.945	0.016	0.003
ORIGINAL				0.005	0.008	0.005
DUP				0.007	0.007	0.005
Target Range - Lower Bound				0.005	<0.005	0.004
Upper Bound				0.007	0.010	0.006
ORIGINAL	27	<10	1265			
DUP	27	<10	1270			
Target Range - Lower Bound	25	<10	1200			
Upper Bound	29	20	1335			

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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