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-MAR-2021
This copy reported on
29-MAR-2021
Account: JPVNVMAK

QC CERTIFICATE SD21042106

This report is for 4 samples of Rock submitted to our lab in Sudbury, ON, Canada on 22-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-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
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu - Four Acid	
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 SD21042106

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																
EMOG-17																
Target Range - Lower Bound																
Upper Bound																
GPP-14		0.936	0.503	0.496												
Target Range - Lower Bound		0.853	0.468	0.451												
Upper Bound		0.965	0.538	0.511												
KIP-19		2.42	<0.005	0.001												
Target Range - Lower Bound		2.28	<0.005	<0.001												
Upper Bound		2.58	0.010	0.002												
MRGeo08					4.6	7.52	34	1150	3.4	<2	2.78	2.2	21	96	651	4.03
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 219		0.767	0.009	0.009												
Target Range - Lower Bound																
Upper Bound																
OREAS 602					>100	4.35	686	120	0.8	58	0.63	25.8	10	32	5230	2.20
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 932																
Target Range - Lower Bound																
Upper Bound																
OREAS-133a																
Target Range - Lower Bound																
Upper Bound																
OREAS-134b																
Target Range - Lower Bound																
Upper Bound																
OREAS-74a																
Target Range - Lower Bound																
Upper Bound																

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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																
EMOG-17																
Target Range - Lower Bound																
Upper Bound																
GPP-14																
Target Range - Lower Bound																
Upper Bound																
KIP-19																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		20	3.24	30	1.35	582	14	2.05	729	1110	1120	0.31	5	11	316	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 219																
Target Range - Lower Bound																
Upper Bound																
OREAS 602		20	0.69	10	0.18	235	4	0.44	62	580	1045	2.11	84	4	453	<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 932																
Target Range - Lower Bound																
Upper Bound																
OREAS-133a																
Target Range - Lower Bound																
Upper Bound																
OREAS-134b																
Target Range - Lower Bound																
Upper Bound																
OREAS-74a																
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	Cu-OG62 Cu % 0.001
STANDARDS								
EMOG-17								0.823
Target Range - Lower Bound								0.803
Upper Bound								0.863
GPP-14								
Target Range - Lower Bound								
Upper Bound								
KIP-19								
Target Range - Lower Bound								
Upper Bound								
MRGeo08		0.51	<10	<10	112	10	857	
Target Range - Lower Bound		0.44	<10	<10	97	<10	722	
Upper Bound		0.56	20	30	121	30	886	
OREAS 219								
Target Range - Lower Bound								
Upper Bound								
OREAS 602		0.22	<10	<10	33	20	4230	
Target Range - Lower Bound		0.18	<10	<10	29	<10	3770	
Upper Bound		0.24	20	20	37	30	4610	
OREAS 932								6.02
Target Range - Lower Bound								5.91
Upper Bound								6.35
OREAS-133a								0.032
Target Range - Lower Bound								0.030
Upper Bound								0.034
OREAS-134b								0.131
Target Range - Lower Bound								0.129
Upper Bound								0.141
OREAS-74a								0.121
Target Range - Lower Bound								
Upper Bound								

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QC CERTIFICATE OF ANALYSIS SD21042106

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
BLANKS																
BLANK																
Target Range - Lower Bound																
Upper Bound																
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												
DUPLICATES																
ORIGINAL		0.009	<0.005	<0.001												
DUP		0.007	<0.005	0.002												
Target Range - Lower Bound		0.007	<0.005	<0.001												
Upper Bound		0.009	0.010	0.002												
ORIGINAL					<0.5	8.50	165	350	1.8	<2	1.22	<0.5	25	96	52	5.60
DUP					<0.5	8.55	170	350	1.8	<2	1.24	<0.5	25	97	52	5.64
Target Range - Lower Bound					<0.5	8.09	154	310	1.2	<2	1.16	<0.5	23	91	49	5.33
Upper Bound					1.0	8.96	181	390	2.4	4	1.30	1.0	27	102	55	5.91
Sample 3		0.005	<0.005	0.001												
DUP		0.004	<0.005	0.001												
Target Range - Lower Bound		0.003	<0.005	<0.001												
Upper Bound		0.006	0.010	0.002												

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BLANKS																
BLANK																
Target Range - Lower Bound																
Upper Bound																
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																
DUPLICATES																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL		20	2.22	20	1.81	1225	1	0.94	65	740	15	0.27	<5	22	134	<20
DUP		20	2.23	20	1.82	1245	1	0.94	66	770	17	0.28	<5	22	136	<20
Target Range - Lower Bound		<10	2.10	<10	1.71	1170	<1	0.88	61	710	13	0.25	<5	20	127	<20
Upper Bound		30	2.35	30	1.92	1300	2	1.00	70	800	19	0.30	10	24	143	40
Sample 3																
DUP																
Target Range - Lower Bound																
Upper Bound																

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					BLANKS			
BLANK								<0.001
Target Range - Lower Bound								<0.001
Upper Bound								0.002
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								
					DUPLICATES			
ORIGINAL								
DUP								
Target Range - Lower Bound								
Upper Bound								
ORIGINAL		0.50	<10	<10	153	10	98	
DUP		0.50	<10	<10	154	10	96	
Target Range - Lower Bound		0.47	<10	<10	145	<10	90	
Upper Bound		0.54	20	20	162	20	104	
Sample 3								
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:	Cu-OG62	ME-ICP61	ME-OG62	PGM-ICP23