ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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www.alsglobal.com/geochemistry

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

Finalized Date: 17-SEP-2021
Account: JPVNVMAK

QC CERTIFICATE SD21227025

This report is for 3 samples of Rock submitted to our lab in Sudbury, ON, Canada on 27-AUG-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
DISP-01	Disposal of all sample fractions
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
PUL-QC	Pulverizing QC Test
CRU-QC	Crushing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61r	4A multi-element ICP-MS + REE	
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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Finalized Date: 17-SEP-2021
Account: JPVNVMAK

QC CERTIFICATE OF ANALYSIS SD21227025

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-MS61r Ag ppm 0.01	ME-MS61r Al % 0.01	ME-MS61r As ppm 0.2	ME-MS61r Ba ppm 10	ME-MS61r Be ppm 0.05	ME-MS61r Bi ppm 0.01	ME-MS61r Ca % 0.01	ME-MS61r Cd ppm 0.02	ME-MS61r Ce ppm 0.01	ME-MS61r Co ppm 0.1	ME-MS61r Cr ppm 1	ME-MS61r Cs ppm 0.05
STANDARDS																
EMOG-17					71.5	4.90	621	310	1.84	6.23	2.02	21.4	52.8	791	60	8.07
Target Range - Lower Bound					60.9	4.18	522	310	1.60	5.31	1.72	18.15	42.9	686	49	6.56
Upper Bound					74.5	5.13	638	440	2.06	6.51	2.12	22.2	52.5	838	62	8.12
G919-10		7.32	<0.005	0.001												
Target Range - Lower Bound		7.12														
Upper Bound		8.04														
OREAS 682		0.072	0.842	0.428												
Target Range - Lower Bound		0.070	0.811	0.416												
Upper Bound		0.081	0.925	0.472												
OREAS 920					0.08	8.06	5.9	570	2.81	0.88	0.54	0.05	98.7	15.4	93	9.06
Target Range - Lower Bound					0.08	6.91	4.6	450	2.54	0.61	0.44	0.04	84.6	13.9	75	7.72
Upper Bound					0.13	8.47	6.1	640	3.22	0.77	0.56	0.12	103.5	17.3	93	9.54
PK03		5.17	4.48	6.21												
Target Range - Lower Bound		4.73	4.03	5.67												
Upper Bound		5.34	4.55	6.39												
PMP-18		0.299	<0.005	0.001												
Target Range - Lower Bound		0.289	<0.005	<0.001												
Upper Bound		0.327	0.010	0.002												
SY-4					0.02	7.52	0.5	340	2.67	0.01	5.63	0.06	60.4	2.2	12	1.44
Target Range - Lower Bound					<0.01	853	<0.2	280	2.29	<0.01	4.88	<0.02	59.9	2.4	5	1.30
Upper Bound					0.02	50.0	0.5	400	2.91	0.03	5.98	0.09	73.2	3.2	10	1.70
BLANKS																
BLANK					<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05
Target Range - Lower Bound					<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05
Upper Bound					0.02	0.02	0.4	20	0.10	0.02	0.02	0.04	0.02	0.2	2	0.10
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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ESPANOLA ON P5E 1L9

Finalized Date: 17-SEP-2021
Account: JPVNVMAK

QC CERTIFICATE OF ANALYSIS SD21227025

Sample Description / Method / Analyte / Units / LOD	ME-MS61r Cu ppm 0.2	ME-MS61r Fe % 0.01	ME-MS61r Ga ppm 0.05	ME-MS61r Ge ppm 0.05	ME-MS61r Hf ppm 0.1	ME-MS61r In ppm 0.005	ME-MS61r K % 0.01	ME-MS61r La ppm 0.5	ME-MS61r Li ppm 0.2	ME-MS61r Mg % 0.01	ME-MS61r Mn ppm 5	ME-MS61r Mo ppm 0.05	ME-MS61r Na % 0.01	ME-MS61r Nb ppm 0.1	ME-MS61r Ni ppm 0.2
STANDARDS															
EMOG-17	8720	5.14	12.95	0.09	2.0	1.005	1.76	26.2	28.8	1.03	786	1135	1.17	15.2	8050
Target Range - Lower Bound	7750	4.42	10.75	0.06	1.6	0.823	1.49	20.7	23.9	0.86	670	997	0.99	12.7	6820
Upper Bound	8910	5.42	13.25	0.30	2.2	1.015	1.85	26.4	29.7	1.08	830	1220	1.23	15.7	8330
G919-10															
Target Range - Lower Bound															
Upper Bound															
OREAS 682															
Target Range - Lower Bound															
Upper Bound															
OREAS 920	119.0	4.25	20.2	0.11	4.6	0.083	3.05	49.5	30.6	1.45	629	0.37	0.68	17.8	39.3
Target Range - Lower Bound	104.0	3.72	18.65	<0.05	4.0	0.070	2.59	41.0	26.0	1.23	535	0.34	0.56	15.6	37.4
Upper Bound	120.0	4.56	22.9	0.29	5.2	0.098	3.19	51.2	32.2	1.53	665	0.58	0.71	19.2	46.2
PK03															
Target Range - Lower Bound															
Upper Bound															
PMP-18															
Target Range - Lower Bound															
Upper Bound															
SY-4	3.3	4.13	33.9	0.10	1.5	0.041	1.34	24.1	39.1	0.19	823	0.17	5.32	13.0	6.1
Target Range - Lower Bound	6.3	3.53	31.7	<0.05	9.4	0.024	1.15	22.6	33.1	0.17	732	0.08	4.54	11.6	7.9
Upper Bound	7.7	4.33	38.8	0.26	11.8	0.048	1.42	28.7	40.9	0.23	906	0.30	5.58	14.4	10.1
BLANKS															
BLANK	<0.2	<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2
Target Range - Lower Bound	<0.2	<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2
Upper Bound	0.4	0.02	0.10	0.10	0.2	0.010	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4
BLANK															
Target Range - Lower Bound															
Upper Bound															

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Finalized Date: 17-SEP-2021
Account: JPVNVMAK

QC CERTIFICATE OF ANALYSIS SD21227025

Sample Description	Method / Analyte / Units / LOD	ME-MS61r P ppm 10	ME-MS61r Pb ppm 0.5	ME-MS61r Rb ppm 0.1	ME-MS61r Re ppm 0.002	ME-MS61r S % 0.01	ME-MS61r Sb ppm 0.05	ME-MS61r Sc ppm 0.1	ME-MS61r Se ppm 1	ME-MS61r Sn ppm 0.2	ME-MS61r Sr ppm 0.2	ME-MS61r Ta ppm 0.05	ME-MS61r Te ppm 0.05	ME-MS61r Th ppm 0.01	ME-MS61r Ti % 0.005	ME-MS61r Tl ppm 0.02
STANDARDS																
EMOG-17		840	7550	118.5	0.343	3.37	828	8.2	6	3.1	214	0.98	1.39	12.10	0.335	2.45
Target Range - Lower Bound		700	6570	98.9	0.286	2.91	643	7.2	4	2.2	184.5	0.78	1.10	10.35	0.294	1.89
Upper Bound		880	8030	121.0	0.354	3.57	869	9.0	9	3.2	226	1.08	1.46	12.65	0.370	2.61
G919-10																
Target Range - Lower Bound																
Upper Bound																
OREAS 682																
Target Range - Lower Bound																
Upper Bound																
OREAS 920		770	23.5	175.0	<0.002	0.03	1.45	13.0	<1	5.4	83.6	1.32	<0.05	18.70	0.496	0.95
Target Range - Lower Bound		<10	20.7	158.5	<0.002	<0.01	1.22	12.8	<1	4.3	73.6	1.17	<0.05	17.35	0.434	0.76
Upper Bound		20	26.4	193.5	0.004	0.05	1.76	15.8	2	5.7	90.4	1.55	0.10	21.2	0.542	1.08
PK03																
Target Range - Lower Bound																
Upper Bound																
PMP-18																
Target Range - Lower Bound																
Upper Bound																
SY-4		490	9.6	27.0	<0.002	0.02	<0.05	0.6	<1	7.9	1215	0.74	<0.05	1.59	0.162	0.25
Target Range - Lower Bound		<10	8.5	24.5	<0.002	<0.01	<0.05	0.5	<1	6.4	1070	0.76	<0.05	0.71	0.139	0.17
Upper Bound		20	11.5	30.1	0.006	0.03	0.12	0.9	5	8.3	1310	1.05	0.12	0.89	0.181	0.30
BLANKS																
BLANK		<10	<0.5	<0.1	<0.002	<0.01	0.07	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02
Target Range - Lower Bound		<10	<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02
Upper Bound		20	1.0	0.2	0.004	0.02	0.10	0.2	5	0.4	0.4	0.10	0.10	0.02	0.010	0.04
BLANK																
Target Range - Lower Bound																
Upper Bound																

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Account: JPVNVMAK

QC CERTIFICATE OF ANALYSIS SD21227025

Sample Description / Method / Analyte / Units / LOD	ME-MS61r U ppm 0.1	ME-MS61r V ppm 1	ME-MS61r W ppm 0.1	ME-MS61r Y ppm 0.1	ME-MS61r Zn ppm 2	ME-MS61r Zr ppm 0.5	ME-MS61r Dy ppm 0.05	ME-MS61r Er ppm 0.03	ME-MS61r Eu ppm 0.03	ME-MS61r Gd ppm 0.05	ME-MS61r Ho ppm 0.01	ME-MS61r Lu ppm 0.01	ME-MS61r Nd ppm 0.1	ME-MS61r Pr ppm 0.03	ME-MS61r Sm ppm 0.03
STANDARDS															
EMOG-17	3.4	77	4.2	17.2	7790	65.6	3.18	1.76	0.89	3.46	0.62	0.24	23.8	6.11	4.13
Target Range - Lower Bound	2.8	67	3.3	14.3	6800	55.6	2.53	1.41	0.71	2.85	0.48	0.19	17.8	4.65	3.40
Upper Bound	3.7	84	4.7	17.7	8320	76.4	3.53	1.97	1.03	3.97	0.68	0.27	24.3	6.37	4.66
G919-10															
Target Range - Lower Bound															
Upper Bound															
OREAS 682															
Target Range - Lower Bound															
Upper Bound															
OREAS 920	3.8	101	3.3	33.7	121	155.0	6.09	3.40	1.36	6.43	1.19	0.48	44.3	11.40	7.85
Target Range - Lower Bound	3.3	86	2.5	29.8	102	128.0	5.42	3.11	1.25	5.87	1.06	0.42	34.2	9.24	6.63
Upper Bound	4.2	108	3.7	36.6	130	174.0	7.46	4.27	1.76	8.07	1.46	0.59	46.6	12.55	9.05
PK03															
Target Range - Lower Bound															
Upper Bound															
PMP-18															
Target Range - Lower Bound															
Upper Bound															
SY-4	0.8	5	<0.1	67.7	102	77.8	13.15	10.20	1.08	8.62	3.14	1.63	32.5	7.66	7.12
Target Range - Lower Bound	0.3	3	<0.1	68.8	82	59.1	11.80	9.52	1.05	8.10	2.84	1.39	28.2	6.89	6.85
Upper Bound	0.7	8	0.3	84.3	104	81.2	16.10	12.95	1.49	11.10	3.87	1.90	38.4	9.39	9.33
BLANKS															
BLANK	<0.1	<1	<0.1	<0.1	<2	<0.5	<0.05	<0.03	<0.03	<0.05	<0.01	<0.01	<0.1	<0.03	<0.03
Target Range - Lower Bound	<0.1	<1	<0.1	<0.1	<2	<0.5	<0.05	<0.03	<0.03	<0.05	<0.01	<0.01	<0.1	<0.03	<0.03
Upper Bound	0.2	2	0.2	0.2	4	1.0	0.10	0.06	0.06	0.10	0.02	0.02	0.2	0.06	0.06
BLANK															
Target Range - Lower Bound															
Upper Bound															

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Sample Description	Method Analyte Units LOD	ME-MS61r Tb ppm 0.01	ME-MS61r Tm ppm 0.01	ME-MS61r Yb ppm 0.03
STANDARDS				
EMOG-17		0.51	0.25	1.73
Target Range - Lower Bound		0.41	0.19	1.30
Upper Bound		0.57	0.29	1.82
G919-10				
Target Range - Lower Bound				
Upper Bound				
OREAS 682				
Target Range - Lower Bound				
Upper Bound				
OREAS 920		0.99	0.50	3.34
Target Range - Lower Bound		0.89	0.45	2.80
Upper Bound		1.23	0.63	3.86
PK03				
Target Range - Lower Bound				
Upper Bound				
PMP-18				
Target Range - Lower Bound				
Upper Bound				
SY-4		1.66	1.69	11.80
Target Range - Lower Bound		1.59	1.51	10.15
Upper Bound		2.18	2.07	13.80
BLANKS				
BLANK		<0.01	<0.01	<0.03
Target Range - Lower Bound		<0.01	<0.01	<0.03
Upper Bound		0.02	0.02	0.06
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-MS61r Ag ppm 0.01	ME-MS61r Al % 0.01	ME-MS61r As ppm 0.2	ME-MS61r Ba ppm 10	ME-MS61r Be ppm 0.05	ME-MS61r Bi ppm 0.01	ME-MS61r Ca % 0.01	ME-MS61r Cd ppm 0.02	ME-MS61r Ce ppm 0.01	ME-MS61r Co ppm 0.1	ME-MS61r Cr ppm 1	ME-MS61r Cs ppm 0.05
							DUPLICATES									
ORIGINAL		0.016	0.164	0.040												
DUP		0.014	0.127	0.034												
Target Range - Lower Bound		0.013	0.133	0.034												
Upper Bound		0.017	0.158	0.040												
ORIGINAL		<0.001	<0.005	<0.001												
DUP		<0.001	<0.005	0.001												
Target Range - Lower Bound		<0.001	<0.005	<0.001												
Upper Bound		0.002	0.010	0.002												
ORIGINAL					0.03	0.19	146.5	10	0.14	0.01	7.95	0.66	4.40	4.7	38	0.17
DUP					0.03	0.18	152.5	10	0.11	0.01	8.32	0.65	4.52	4.5	26	0.17
Target Range - Lower Bound					0.02	0.17	142.0	<10	0.07	<0.01	7.72	0.60	4.23	4.3	29	0.11
Upper Bound					0.04	0.20	157.0	20	0.18	0.02	8.55	0.71	4.69	4.9	35	0.23
ORIGINAL		0.086	0.097	0.942												
DUP		0.082	0.094	0.960												
Target Range - Lower Bound		0.079	0.086	0.902												
Upper Bound		0.089	0.105	1.000												

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Sample Description	Method / Analyte / Units / LOD	ME-MS61r Cu ppm 0.2	ME-MS61r Fe % 0.01	ME-MS61r Ga ppm 0.05	ME-MS61r Ge ppm 0.05	ME-MS61r Hf ppm 0.1	ME-MS61r In ppm 0.005	ME-MS61r K % 0.01	ME-MS61r La ppm 0.5	ME-MS61r Li ppm 0.2	ME-MS61r Mg % 0.01	ME-MS61r Mn ppm 5	ME-MS61r Mo ppm 0.05	ME-MS61r Na % 0.01	ME-MS61r Nb ppm 0.1	ME-MS61r Ni ppm 0.2
DUPLICATES																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL		28.0	7.36	0.72	<0.05	0.1	0.020	<0.01	3.4	3.0	2.48	3540	0.45	0.01	0.1	21.1
DUP		28.2	7.58	0.69	<0.05	0.1	0.023	0.01	3.4	2.9	2.56	3690	0.40	0.01	0.1	20.4
Target Range - Lower Bound		26.9	7.09	0.62	<0.05	<0.1	0.015	<0.01	2.7	2.6	2.38	3430	0.35	<0.01	<0.1	19.5
Upper Bound		29.3	7.85	0.79	0.10	0.2	0.028	0.02	4.1	3.3	2.66	3800	0.50	0.02	0.2	22.0
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																

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QC CERTIFICATE OF ANALYSIS SD21227025

Sample Description	Method / Analyte / Units / LOD	ME-MS61r P ppm 10	ME-MS61r Pb ppm 0.5	ME-MS61r Rb ppm 0.1	ME-MS61r Re ppm 0.002	ME-MS61r S % 0.01	ME-MS61r Sb ppm 0.05	ME-MS61r Sc ppm 0.1	ME-MS61r Se ppm 1	ME-MS61r Sn ppm 0.2	ME-MS61r Sr ppm 0.2	ME-MS61r Ta ppm 0.05	ME-MS61r Te ppm 0.05	ME-MS61r Th ppm 0.01	ME-MS61r Ti % 0.005	ME-MS61r Tl ppm 0.02
		DUPLICATES														
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL		380	1.1	0.2	<0.002	0.47	3.69	2.1	<1	<0.2	37.7	<0.05	0.11	0.09	0.006	<0.02
DUP		390	1.2	0.3	<0.002	0.49	3.74	2.0	<1	<0.2	38.1	<0.05	0.09	0.10	0.005	<0.02
Target Range - Lower Bound		360	0.6	<0.1	<0.002	0.45	3.39	1.8	<1	<0.2	35.8	<0.05	<0.05	0.08	<0.005	<0.02
Upper Bound		410	1.7	0.4	0.004	0.51	4.04	2.3	2	0.4	40.0	0.10	0.16	0.11	0.010	0.04
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																

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Finalized Date: 17-SEP-2021
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QC CERTIFICATE OF ANALYSIS SD21227025

Sample Description / Method / Analyte / Units / LOD	ME-MS61r U ppm 0.1	ME-MS61r V ppm 1	ME-MS61r W ppm 0.1	ME-MS61r Y ppm 0.1	ME-MS61r Zn ppm 2	ME-MS61r Zr ppm 0.5	ME-MS61r Dy ppm 0.05	ME-MS61r Er ppm 0.03	ME-MS61r Eu ppm 0.03	ME-MS61r Gd ppm 0.05	ME-MS61r Ho ppm 0.01	ME-MS61r Lu ppm 0.01	ME-MS61r Nd ppm 0.1	ME-MS61r Pr ppm 0.03	ME-MS61r Sm ppm 0.03
DUPLICATES															
ORIGINAL															
DUP															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL															
DUP															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL	0.1	23	0.2	4.8	317	3.0	0.77	0.41	0.36	0.83	0.15	0.07	3.1	0.68	0.72
DUP	<0.1	24	0.2	4.7	334	3.1	0.75	0.44	0.37	0.84	0.16	0.07	3.2	0.70	0.71
Target Range - Lower Bound	<0.1	21	<0.1	4.4	307	2.4	0.65	0.36	0.31	0.72	0.13	0.05	2.8	0.61	0.63
Upper Bound	0.2	26	0.3	5.1	344	3.7	0.87	0.49	0.42	0.95	0.18	0.09	3.5	0.77	0.80
ORIGINAL															
DUP															
Target Range - Lower Bound															
Upper Bound															

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

ALS Canada Ltd.
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To: JEAN PAUL VIENNEAU
525 SECORD STREET
ESPANOLA ON P5E 1L9

Finalized Date: 17-SEP-2021
Account: JPVNVMAK

QC CERTIFICATE OF ANALYSIS SD21227025

Sample Description / Method / Analyte / Units / LOD	ME-MS61r Tb ppm 0.01	ME-MS61r Tm ppm 0.01	ME-MS61r Yb ppm 0.03
DUPLICATES			
ORIGINAL			
DUP			
Target Range - Lower Bound			
Upper Bound			
ORIGINAL			
DUP			
Target Range - Lower Bound			
Upper Bound			
ORIGINAL	0.12	0.06	0.45
DUP	0.12	0.06	0.45
Target Range - Lower Bound	0.10	0.05	0.39
Upper Bound	0.14	0.07	0.51
ORIGINAL			
DUP			
Target Range - Lower Bound			
Upper Bound			

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

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QC CERTIFICATE OF ANALYSIS SD21227025

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.

Applies to Method: ME-MS61r

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-MS61r PGM-ICP23