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MINERAL LABORATORIES
Canada

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client:

Richards, Gordon

6410 Holly Park Drive

Delta British Columbia V4K 4W6 Canada

Submitted By: Gordon Richards

Receiving Lab: Canada-Vancouver

Received: October 02, 2018

Report Date: October 19, 2018

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CERTIFICATE OF ANALYSIS

VAN18002760.1

CLIENT JOB INFORMATION

Project: ALL IN

Shipment ID:

P.O. Number

Number of Samples: 9

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps

PICKUP-RJT Client to Pickup Rejects

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Richards, Gordon
6410 Holly Park Drive
Delta British Columbia V4K 4W6
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
DY060	9	Dry at 60C			VAN
SS80	9	Dry at 60C sieve 100g to -80 mesh			VAN
SVRJT	9	Save all or part of Soil Reject			VAN
AQ251_EXT	9	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS


KERRY JAY
Geochem Project Specialist

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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CERTIFICATE OF ANALYSIS

VAN18002760.1

	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01
AL1-30	Soil	1.11	31.06	12.86	82.8	195	26.0	11.2	424	2.55	12.4	1.1	2.9	6.9	36.6	0.58	1.02	0.27	27	0.57
AL2-25	Soil	1.12	28.43	12.03	73.2	160	23.4	11.4	421	2.29	11.4	1.0	2.0	6.3	37.0	0.53	0.88	0.22	24	0.66
AL3-26	Soil	0.84	21.97	8.60	49.0	111	18.2	9.8	317	1.95	10.5	1.0	<0.2	5.4	33.8	0.34	0.67	0.16	18	0.61
AL4-30	Soil	0.98	27.63	9.30	61.6	143	24.5	9.3	360	2.34	11.1	0.9	2.4	5.2	32.3	0.33	0.89	0.19	39	0.40
AL5-31	Soil	0.95	25.93	10.39	67.2	143	22.6	11.3	403	2.29	11.1	0.9	0.4	5.9	37.9	0.50	0.81	0.22	22	0.64
AL6-39	Soil	0.86	29.91	12.67	79.0	148	25.6	12.7	490	2.62	11.0	1.2	3.8	7.8	39.9	0.48	0.89	0.23	26	0.66
AL7-29	Soil	2.26	20.60	7.70	40.4	91	14.4	5.1	286	1.46	6.0	0.9	1.5	4.7	27.1	0.25	0.59	3.85	16	0.52
AL8-24	Soil	0.63	46.91	7.91	48.1	158	13.2	9.3	347	1.52	10.4	0.6	2.5	4.5	27.5	0.33	0.51	0.98	15	0.69
AL9-39	Soil	1.03	22.99	6.65	71.1	82	15.8	7.7	251	1.69	8.9	1.2	1.5	5.2	32.8	0.41	0.55	0.12	29	0.53



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CERTIFICATE OF ANALYSIS

VAN18002760.1

	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
AL1-30	Soil	16.9	37.3	0.47	311.0	0.017	2	0.98	0.011	0.14	5.0	2.6	0.11	0.07	70	0.5	0.05	3.1	1.12	<0.1	0.19
AL2-25	Soil	15.0	38.5	0.48	280.1	0.017	2	0.90	0.009	0.13	9.9	2.3	0.10	0.11	60	0.5	0.04	2.8	0.94	<0.1	0.18
AL3-26	Soil	12.6	49.2	0.37	215.3	0.017	2	0.65	0.013	0.11	16.5	1.9	0.09	0.14	48	0.2	0.02	2.1	0.63	<0.1	0.14
AL4-30	Soil	17.0	23.5	0.41	316.2	0.032	2	1.05	0.011	0.09	1.9	3.4	0.11	<0.02	71	0.2	0.03	3.2	0.68	<0.1	0.06
AL5-31	Soil	15.4	47.7	0.46	298.7	0.018	3	0.84	0.010	0.12	15.6	2.3	0.11	0.10	56	0.4	0.03	2.8	0.84	<0.1	0.17
AL6-39	Soil	21.2	23.9	0.61	318.4	0.028	2	1.13	0.014	0.15	5.5	2.8	0.12	0.12	61	0.3	0.03	3.5	1.08	<0.1	0.13
AL7-29	Soil	12.6	26.1	0.28	208.3	0.041	1	0.53	0.013	0.08	1.0	1.7	0.07	0.10	32	0.2	0.04	1.8	0.41	<0.1	0.14
AL8-24	Soil	12.4	31.0	0.30	180.5	0.031	1	0.58	0.008	0.09	14.0	1.6	0.06	0.06	20	0.2	0.05	1.8	0.55	<0.1	0.15
AL9-39	Soil	15.4	25.0	0.33	302.2	0.036	2	0.74	0.019	0.08	9.0	2.2	0.07	0.06	27	0.3	<0.02	2.5	0.42	<0.1	0.12



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	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AL1-30	Soil	0.28	9.6	0.5	<0.05	7.9	7.67	32.9	0.05	2	0.4	16.7	<10	<2
AL2-25	Soil	0.23	8.4	0.4	<0.05	7.1	6.82	29.0	<0.02	2	0.4	14.7	<10	<2
AL3-26	Soil	0.23	6.8	0.4	<0.05	5.1	5.55	24.5	<0.02	2	0.3	10.0	<10	<2
AL4-30	Soil	0.63	7.9	0.4	<0.05	3.6	8.41	32.3	0.02	<1	0.5	14.2	<10	<2
AL5-31	Soil	0.29	7.8	0.5	<0.05	6.9	6.39	30.2	<0.02	<1	0.3	14.0	<10	<2
AL6-39	Soil	0.31	10.5	0.4	<0.05	6.5	8.15	40.5	<0.02	2	0.4	20.0	<10	<2
AL7-29	Soil	0.65	5.2	1.1	<0.05	4.9	5.55	24.0	<0.02	<1	0.1	6.7	<10	<2
AL8-24	Soil	0.49	6.0	1.1	<0.05	5.7	5.81	24.3	0.02	1	0.1	6.7	<10	<2
AL9-39	Soil	1.27	7.5	0.4	<0.05	5.1	6.95	30.1	<0.02	1	0.4	8.3	<10	<2



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QUALITY CONTROL REPORT

VAN18002760.1

	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001
Pulp Duplicates																					
AL7-29	Soil	2.26	20.60	7.70	40.4	91	14.4	5.1	286	1.46	6.0	0.9	1.5	4.7	27.1	0.25	0.59	3.85	16	0.52	0.047
REP AL7-29	QC	2.23	19.74	7.67	39.2	90	13.9	5.2	279	1.47	6.2	0.8	1.1	4.3	26.8	0.28	0.57	3.68	16	0.52	0.045
Reference Materials																					
STD DS11	Standard	14.60	159.16	143.59	344.3	1855	81.8	14.6	1016	3.15	46.8	2.7	73.2	8.0	71.7	2.70	8.59	13.03	50	1.04	0.071
STD OXC129	Standard	1.21	27.00	6.25	38.8	14	79.1	21.0	404	3.09	0.5	0.7	197.7	1.9	191.8	0.01	0.04	<0.02	52	0.65	0.095
STD OXC129 Expected		1.3	28	6.3	42.9	13	79.5	20.3	421	3.065	0.6	0.69	195	1.9		0.03	0.04		51	0.684	0.102
STD DS11 Expected		14.6	149	138	345	1710	77.7	14.2	1055	3.1	42.8	2.59	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
Pulp Duplicates																					
AL7-29	Soil	12.6	26.1	0.28	208.3	0.041	1	0.53	0.013	0.08	1.0	1.7	0.07	0.10	32	0.2	0.04	1.8	0.41	<0.1	0.14
REP AL7-29	QC	12.1	25.7	0.28	209.0	0.040	1	0.54	0.013	0.08	0.9	1.7	0.06	0.10	36	0.1	0.04	1.6	0.40	<0.1	0.12
Reference Materials																					
STD DS11	Standard	19.0	58.8	0.83	369.8	0.091	7	1.14	0.075	0.40	3.4	3.4	5.14	0.29	290	2.1	4.99	5.4	3.15	0.1	0.07
STD OXC129	Standard	12.8	48.9	1.54	49.8	0.391	<1	1.58	0.600	0.37	<0.1	0.6	0.03	<0.02	<5	<0.1	<0.02	5.6	0.16	<0.1	0.28
STD OXC129 Expected		12.5	52	1.545	50	0.4	1	1.58	0.59	0.3655	0.08	1.1	0.03					5.5	0.16		0.24
STD DS11 Expected		18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	3.4	4.9	0.2835	260	2.2	4.56	5.1	2.88	0.08	0.06
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



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QUALITY CONTROL REPORT

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		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
Pulp Duplicates														
AL7-29	Soil	0.65	5.2	1.1	<0.05	4.9	5.55	24.0	<0.02	<1	0.1	6.7	<10	<2
REP AL7-29	QC	0.61	5.0	1.1	<0.05	4.8	5.43	23.7	<0.02	<1	0.2	6.8	<10	<2
Reference Materials														
STD DS11	Standard	1.63	37.0	1.9	<0.05	3.1	8.24	37.9	0.26	50	0.7	24.1	98	192
STD OXC129	Standard	1.21	16.0	0.7	<0.05	21.4	4.68	23.1	<0.02	<1	0.8	2.1	<10	<2
STD OXC129 Expected		1.4		0.7		21	4.7	23.7			0.8	2.22		
STD DS11 Expected		1.53	33.6	1.8		3.1	7.82	37	0.24	50	0.67	23.3	100	172
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2