



**BUREAU
VERITAS** 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: **Colin Dunn Consulting Inc.**
8756 Pender Park Drive
North Saanich British Columbia V8L 3Z5 Canada

Submitted By: Colin Dunn
Receiving Lab: Canada-Vancouver
Received: July 10, 2019
Report Date: July 22, 2019
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN19001784.1

CLIENT JOB INFORMATION

Project: Halogens
Shipment ID:
P.O. Number
Number of Samples: 22

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SLBHP	22	Sorting, labeling and boxing samples received as pulps			VAN
VG104-EXT	22	1:1:1 Aqua Regia Digestion - Ultratrace ICP-MS analysis	0.5	Completed	VAN

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days

ADDITIONAL COMMENTS

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: Colin Dunn Consulting Inc.
8756 Pender Park Drive
North Saanich British Columbia V8L 3Z5
Canada

CC: Dave Heberlein

Jeffrey Cannon
JEFFREY CANNON
Geochemistry Department Supervisor

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

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Analyte	Method	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1142C	Vegetation	1.64	76.63	13.27	191.7	98	77.0	18.3	3351	2.68	10.4	1.7	15.3	6.3	969.4	0.43	0.34	0.19	52	17.89	0.310
1142	Vegetation	11.00	66.65	1.39	1355.7	239	53.2	1.1	5082	0.06	0.1	<0.1	1.6	0.2	715.4	0.40	0.11	<0.02	<2	10.47	4.193
1143	Vegetation	6.49	62.30	1.18	1229.7	106	6.6	0.2	5879	0.04	0.3	<0.1	0.6	<0.1	1398.2	0.34	0.16	<0.02	<2	16.95	3.914
1145	Vegetation	17.78	26.70	0.81	275.3	26	1.6	0.3	1994	0.05	0.1	<0.1	0.8	<0.1	1701.8	0.35	0.07	<0.02	<2	15.81	2.448
1148	Vegetation	21.85	97.74	1.22	893.0	104	28.0	1.4	7668	0.07	0.4	<0.1	1.2	<0.1	381.8	0.51	0.07	<0.02	<2	12.62	>5
1383	Vegetation	0.67	23.11	0.84	631.4	13	7.4	0.2	6034	0.02	0.1	<0.1	0.4	<0.1	1569.2	0.18	0.21	<0.02	<2	25.99	1.557
1384	Vegetation	16.24	27.03	1.69	493.6	33	5.6	0.4	3071	0.06	0.3	<0.1	<0.2	<0.1	624.6	0.26	0.06	<0.02	<2	7.88	3.444
1385	Vegetation	0.64	19.37	0.65	596.9	25	6.5	0.8	>10000	0.02	0.4	<0.1	<0.2	<0.1	1419.4	0.23	0.52	<0.02	<2	20.61	2.019
1386	Vegetation	34.67	54.82	2.19	728.4	39	4.9	0.7	6041	0.06	0.2	<0.1	<0.2	<0.1	542.3	0.22	0.14	<0.02	<2	15.21	4.254
1387	Vegetation	8.23	54.81	3.12	1147.6	42	9.8	0.3	2740	0.06	<0.1	<0.1	<0.2	<0.1	1159.7	0.34	0.05	<0.02	<2	15.60	2.712
1387C	Vegetation	1.63	72.63	12.20	181.2	99	71.1	17.7	3226	2.55	10.2	1.6	42.5	6.4	946.1	0.44	0.29	0.17	52	17.09	0.308
1388	Vegetation	7.58	53.27	1.90	1141.7	38	8.8	0.3	2683	0.06	<0.1	<0.1	<0.2	0.1	1203.7	0.30	0.05	<0.02	<2	15.83	2.692
1389	Vegetation	1.20	26.68	1.40	904.0	24	1.7	0.7	>10000	0.04	<0.1	<0.1	0.8	<0.1	1195.0	0.38	0.19	<0.02	<2	18.25	2.315
1390	Vegetation	12.19	33.93	2.01	819.8	28	2.5	0.3	4500	0.04	<0.1	<0.1	<0.2	<0.1	>2000	0.18	0.08	<0.02	<2	18.51	2.407
1391	Vegetation	5.24	28.00	0.93	829.2	21	4.8	0.4	>10000	0.02	<0.1	<0.1	<0.2	<0.1	839.7	0.31	0.28	<0.02	<2	18.15	2.197
1392	Vegetation	17.40	22.94	1.04	996.0	46	4.8	1.4	>10000	0.03	0.7	<0.1	<0.2	<0.1	734.9	0.39	0.42	<0.02	<2	17.21	3.166
1393	Vegetation	6.15	11.48	0.58	889.9	14	0.3	0.2	6347	0.04	<0.1	<0.1	<0.2	<0.1	957.6	0.29	0.11	<0.02	<2	15.66	3.158
1276	Vegetation	0.66	10.15	0.81	580.7	11	11.2	1.2	>10000	<0.01	<0.1	<0.1	<0.2	<0.1	999.4	0.39	0.32	<0.02	<2	21.94	2.158
1277	Vegetation	6.68	29.95	1.18	439.9	36	3.1	0.3	4274	0.06	<0.1	<0.1	0.4	<0.1	248.9	0.23	0.06	<0.02	<2	9.58	3.303
1278	Vegetation	2.67	18.85	3.40	894.6	26	20.8	0.7	>10000	0.03	<0.1	<0.1	<0.2	<0.1	917.2	0.34	0.23	<0.02	<2	20.31	2.147
1407	Vegetation	8.46	66.27	2.65	1273.0	179	5.8	0.3	2636	0.05	<0.1	<0.1	<0.2	<0.1	1209.5	0.33	0.03	<0.02	<2	12.79	3.625
1428	Vegetation	0.82	20.12	0.82	871.3	30	17.2	1.8	>10000	0.02	<0.1	<0.1	<0.2	<0.1	1118.8	0.47	0.84	<0.02	<2	20.56	2.587



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CERTIFICATE OF ANALYSIS

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Analyte	Method	VG104																			
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Se	Te	Ga	Cs	Ge	Hf	Nb
		Unit	ppm	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm						
		MDL	0.5	0.5	0.01	0.5	10	20	0.01	0.001	0.01	0.1	0.02	0.02	0.1	0.02	0.1	0.02	0.1	0.02	0.02
1142C	Vegetation	27.8	166.3	0.99	91.0	284	120	4.05	0.094	1.48	0.2	7.6	0.20	0.37	<0.1	0.07	9.0	1.24	<0.1	0.20	<0.02
1142	Vegetation	<0.5	<0.5	3.31	439.0	210	399	0.03	0.363	>10	<0.1	0.3	<0.02	1.02	<0.1	<0.02	0.1	0.80	0.1	<0.02	0.03
1143	Vegetation	<0.5	<0.5	3.35	252.2	182	233	<0.01	0.174	9.47	<0.1	0.3	<0.02	0.75	<0.1	0.03	0.5	0.47	<0.1	<0.02	<0.02
1145	Vegetation	<0.5	<0.5	1.36	90.3	116	355	0.02	0.222	9.25	<0.1	0.9	<0.02	0.35	<0.1	<0.02	0.2	0.34	<0.1	<0.02	<0.02
1148	Vegetation	<0.5	<0.5	1.79	211.4	304	492	0.01	0.336	>10	<0.1	0.2	<0.02	0.46	<0.1	<0.02	0.6	0.30	0.1	<0.02	<0.02
1383	Vegetation	<0.5	<0.5	1.02	666.0	66	337	0.06	0.056	4.95	<0.1	0.5	<0.02	0.27	<0.1	0.03	0.3	0.20	<0.1	<0.02	<0.02
1384	Vegetation	<0.5	0.6	2.01	21.2	165	386	0.05	0.330	>10	<0.1	1.4	<0.02	0.35	<0.1	<0.02	0.4	0.62	0.1	<0.02	0.03
1385	Vegetation	<0.5	<0.5	1.26	525.0	88	189	0.31	0.064	6.97	<0.1	0.8	<0.02	0.75	<0.1	0.02	1.4	0.22	<0.1	<0.02	<0.02
1386	Vegetation	<0.5	<0.5	2.27	64.4	199	337	0.03	0.252	>10	0.1	0.8	<0.02	0.80	<0.1	<0.02	1.0	0.65	<0.1	<0.02	<0.02
1387	Vegetation	<0.5	<0.5	1.70	120.0	131	332	0.03	0.261	9.89	<0.1	0.4	<0.02	0.34	<0.1	<0.02	0.5	1.09	0.1	<0.02	0.02
1387C	Vegetation	26.0	140.7	0.95	84.6	267	145	4.05	0.106	1.45	0.1	7.4	0.19	0.34	<0.1	<0.02	8.7	1.29	<0.1	0.08	<0.02
1388	Vegetation	<0.5	0.5	1.66	128.8	132	315	0.03	0.234	9.75	<0.1	0.6	<0.02	0.31	<0.1	<0.02	0.2	1.06	<0.1	<0.02	<0.02
1389	Vegetation	<0.5	<0.5	2.14	222.3	108	181	0.05	0.120	7.76	<0.1	0.7	<0.02	0.38	<0.1	<0.02	0.9	1.12	<0.1	<0.02	<0.02
1390	Vegetation	<0.5	<0.5	3.10	301.4	108	250	0.02	0.140	8.42	<0.1	0.6	<0.02	0.40	<0.1	0.06	0.8	0.89	<0.1	<0.02	<0.02
1391	Vegetation	<0.5	<0.5	1.51	319.6	101	154	0.02	0.112	7.75	<0.1	0.8	<0.02	0.33	<0.1	<0.02	1.2	1.33	0.1	<0.02	<0.02
1392	Vegetation	<0.5	0.7	1.69	166.8	150	264	0.04	0.232	8.42	<0.1	1.0	<0.02	0.60	<0.1	<0.02	1.9	0.64	<0.1	<0.02	<0.02
1393	Vegetation	<0.5	<0.5	1.56	121.8	141	293	0.02	0.106	6.74	<0.1	0.9	<0.02	0.25	<0.1	0.03	1.4	0.11	<0.1	<0.02	<0.02
1276	Vegetation	0.6	<0.5	1.42	418.7	93	182	0.11	0.091	4.55	<0.1	0.4	<0.02	0.32	<0.1	0.05	2.0	0.35	<0.1	<0.02	<0.02
1277	Vegetation	<0.5	<0.5	2.79	16.2	159	197	0.03	0.252	>10	<0.1	1.3	<0.02	0.77	<0.1	<0.02	1.6	0.36	<0.1	<0.02	<0.02
1278	Vegetation	<0.5	<0.5	2.60	113.4	93	283	0.04	0.074	5.21	<0.1	0.5	<0.02	0.54	<0.1	0.03	1.6	0.71	0.1	<0.02	<0.02
1407	Vegetation	<0.5	<0.5	2.44	159.1	164	743	0.01	0.142	>10	<0.1	0.5	<0.02	1.19	<0.1	<0.02	1.2	0.28	0.1	<0.02	<0.02
1428	Vegetation	<0.5	<0.5	2.01	488.3	121	269	0.12	0.082	6.39	<0.1	0.3	<0.02	0.61	<0.1	<0.02	2.4	0.29	<0.1	<0.02	<0.02



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Halogens

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CERTIFICATE OF ANALYSIS

VAN19001784.1

Method	Analyte	VG104										
		Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd
		ppm	ppb	ppm	ppm	ppb						
MDL		0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10
1142C	Vegetation	24.2	0.7	<0.05	3.6	12.17	45.9	0.05	<1	0.4	9.1	<10
1142	Vegetation	270.0	<0.1	<0.05	0.5	0.15	0.3	<0.02	<1	0.1	14.6	<10
1143	Vegetation	139.3	0.1	<0.05	0.2	0.05	0.1	<0.02	<1	<0.1	12.3	<10
1145	Vegetation	60.1	0.1	<0.05	0.2	0.07	0.3	<0.02	2	0.1	16.1	<10
1148	Vegetation	320.3	<0.1	<0.05	0.3	0.08	0.2	<0.02	<1	<0.1	14.2	<10
1383	Vegetation	77.1	<0.1	<0.05	0.2	0.15	0.3	<0.02	<1	<0.1	6.1	<10
1384	Vegetation	67.8	0.2	<0.05	0.3	0.09	0.5	<0.02	<1	<0.1	11.8	<10
1385	Vegetation	84.3	<0.1	<0.05	0.2	0.19	0.5	<0.02	<1	0.2	7.2	<10
1386	Vegetation	152.2	<0.1	<0.05	0.3	0.08	0.3	<0.02	<1	<0.1	11.0	<10
1387	Vegetation	128.9	<0.1	<0.05	0.2	0.11	0.3	<0.02	<1	<0.1	11.2	<10
1387C	Vegetation	23.5	1.3	<0.05	2.8	11.63	43.0	<0.02	<1	0.4	9.9	<10
1388	Vegetation	130.0	0.1	<0.05	0.4	0.10	0.4	<0.02	<1	<0.1	11.6	<10
1389	Vegetation	131.5	<0.1	<0.05	0.2	0.10	0.3	<0.02	<1	0.1	8.8	<10
1390	Vegetation	187.7	<0.1	<0.05	0.2	0.07	0.3	<0.02	<1	<0.1	6.6	<10
1391	Vegetation	93.4	<0.1	<0.05	0.2	0.09	0.2	<0.02	<1	<0.1	8.5	<10
1392	Vegetation	157.0	<0.1	<0.05	0.2	0.11	0.3	<0.02	<1	<0.1	9.9	<10
1393	Vegetation	35.2	<0.1	<0.05	0.2	0.07	0.2	<0.02	<1	<0.1	6.0	<10
1276	Vegetation	70.5	<0.1	<0.05	0.2	0.42	0.5	<0.02	<1	0.1	5.0	<10
1277	Vegetation	55.3	<0.1	<0.05	0.3	0.09	0.4	<0.02	<1	<0.1	10.5	<10
1278	Vegetation	88.8	<0.1	<0.05	0.2	0.17	0.3	<0.02	<1	<0.1	5.2	<10
1407	Vegetation	119.0	<0.1	<0.05	0.3	0.05	0.2	<0.02	<1	<0.1	15.6	<10
1428	Vegetation	122.4	<0.1	<0.05	0.2	0.33	0.5	<0.02	2	<0.1	8.0	<10



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QUALITY CONTROL REPORT

VAN19001784.1

Method	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	
	MDL	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	2	0.01	0.001
Pulp Duplicates																					
1386	Vegetation A	34.67	54.82	2.19	728.4	39	4.9	0.7	6041	0.06	0.2	<0.1	<0.2	<0.1	542.3	0.22	0.14	<0.02	<2	15.21	4.254
REP 1386	QC	33.35	52.16	2.17	707.9	46	4.9	0.6	5940	0.06	<0.1	<0.1	<0.2	<0.1	531.2	0.25	0.14	<0.02	<2	14.97	4.116
Reference Materials																					
STD ASH-1	Standard	0.82	71.41	9.44	180.0	41	133.7	18.3	1223	2.34	4.3	0.7	5.1	3.8	983.6	0.24	0.13	0.12	50	18.63	0.252
STD DS11	Standard	14.52	154.63	139.34	338.6	2002	81.4	14.0	988	3.15	45.4	2.6	78.3	8.2	73.6	2.33	7.05	13.72	48	1.03	0.070
STD ASH-1 Expected		0.84	73	8.83	175	35	133	17.2	1134	2.28	4.1	0.6	5	3.7	944	0.27	0.17	0.13	49	18.54	0.24
STD DS11 Expected		13.9	156	138	345	1710	81.9	14.2	1055	3.2082	42.8	2.59	79	7.65	67.3	2.37	7.2	12.2	50	1.063	0.0701
BLK	Blank	<0.01	0.04	0.02	<0.1	<2	<0.1	<0.1	1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<2	<0.01	<0.001	



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QUALITY CONTROL REPORT

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Method	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Se	Te	Ga	Cs	Ge	Hf	Nb	
Unit	ppm	ppm	%	ppm	ppm	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL	0.5	0.5	0.01	0.5	10	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	0.1	0.02	0.1	0.02	0.1	0.02	0.02	0.02
Pulp Duplicates																					
1386	Vegetation A	<0.5	<0.5	2.27	64.4	199	337	0.03	0.252	>10	0.1	0.8	<0.02	0.80	<0.1	<0.02	1.0	0.65	<0.1	<0.02	<0.02
REP 1386	QC	<0.5	<0.5	2.21	63.5	190	350	0.03	0.247	>10	<0.1	0.7	<0.02	0.79	<0.1	<0.02	1.0	0.66	<0.1	<0.02	0.03
Reference Materials																					
STD ASH-1	Standard	14.7	161.5	1.93	94.8	205	333	2.96	0.569	1.22	<0.1	8.9	0.15	0.39	<0.1	0.04	6.1	1.07	<0.1	0.02	0.03
STD DS11	Standard	17.8	60.7	0.83	427.9	933	<20	1.15	0.073	0.42	2.8	3.3	4.91	0.27	2.3	4.50	6.0	2.90	<0.1	0.06	1.24
STD ASH-1 Expected		12.8	159	1.91	94.5	200	294	2.95	0.55	1.17	0	8.5	0.12	0.41	0.5	0.06	6.1	0.96	0.1	0.16	0.05
STD DS11 Expected		18.6	61.5	0.85	417	976		1.129	0.0694	0.4	2.9	3.1	4.9	0.2835	1.9	4.56	4.7	2.88	0.08	0.06	1.2
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<10	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<0.1	<0.02	0.2	<0.02	<0.1	<0.02	<0.02



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Halogens

Report Date:

July 22, 2019

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QUALITY CONTROL REPORT

VAN19001784.1

Method	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	VG104	Pt
Analyte	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
Pulp Duplicates												
1386	Vegetation A	152.2	<0.1	<0.05	0.3	0.08	0.3	<0.02	<1	<0.1	11.0	<10
REP 1386	QC	149.6	<0.1	<0.05	0.3	0.07	0.3	<0.02	<1	0.1	12.5	<10
Reference Materials												
STD ASH-1	Standard	18.4	0.6	<0.05	1.1	10.24	25.8	0.05	<1	0.4	12.9	<10
STD DS11	Standard	33.8	1.9	<0.05	2.7	7.77	37.0	0.24	48	1.1	23.7	99
STD ASH-1 Expected		18.3	0.7	0	6	9.2	26	0.03	1	0.4	12	20
STD DS11 Expected		33.6	1.8		2.4	7.82	37	0.24	50	0.67	23.3	100
BLK	Blank	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10
												<2