



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: Longford Exploration Services Ltd.
460-688 West Hastings St.
Vancouver British Columbia V6B 1P1 Canada

Submitted By: James Rogers
Receiving Lab: Canada-Whitehorse
Received: August 14, 2020
Analysis Start: October 06, 2020
Report Date: October 21, 2020
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI20000256.2

CLIENT JOB INFORMATION

Project: Silverhart
Shipment ID:
P.O. Number
Number of Samples: 24

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: Longford Exploration Services Ltd.
460-688 West Hastings St.
Vancouver British Columbia V6B 1P1
Canada

CC: Kevin Brewer
Vedran Pobric

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	24	Crush, split and pulverize 250 g rock to 200 mesh			WHI
AQ250	24	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	0.5	Completed	VAN
SHP01	24	Per sample shipping charges for branch shipments			WHI
AQ370-X	1	1:1:1 Aqua Regia digestion ICP-ES analysis	1	Completed	VAN

ADDITIONAL COMMENTS

Version 2: AQ370-Zn included.



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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Method	WGHT	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	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	
1811901	Rock	0.65	1.03	174.52	13.11	35.2	135	27.6	13.9	151	4.20	<0.1	0.8	1.6	7.4	15.5	0.01	<0.02	0.60	43	0.09
1811902	Rock	1.41	11.79	142.68	12.27	95.2	136	37.6	17.8	355	3.80	2.7	2.3	<0.2	10.2	11.7	0.05	0.32	0.48	31	0.04
1811903	Rock	2.48	15.78	149.73	9.14	118.8	241	29.7	9.2	392	3.83	32.4	2.9	1.0	13.6	9.9	0.02	0.90	0.74	26	0.05
1811904	Rock	2.28	9.29	107.44	8.87	75.4	100	30.8	12.0	239	4.19	0.6	1.9	<0.2	8.7	11.8	0.11	0.24	0.50	30	0.02
1811905	Rock	2.23	4.78	160.74	375.95	1701.8	1236	33.3	12.8	6331	4.37	6.0	1.8	1.7	13.9	144.1	6.67	1.38	1.30	23	7.13
1811906	Rock	1.75	2.08	26.60	1270.26	8763.9	6514	13.2	7.1	>10000	6.72	21.3	0.8	0.7	7.5	314.2	35.68	3.70	0.46	5	16.93
1811907	Rock	2.17	14.19	83.45	12.18	456.8	3110	34.4	16.0	3139	5.26	9.4	2.2	8.9	7.7	63.2	1.94	1.18	23.80	22	4.06
1811908	Rock	2.24	15.32	98.95	38.45	350.9	316	26.1	8.6	2979	4.13	5.9	2.5	14.0	9.0	32.5	1.24	0.82	21.30	20	6.22
1811909	Rock	2.73	47.18	41.37	1576.22	4611.4	10326	21.6	7.0	>10000	4.80	82.3	2.0	5.9	8.9	80.3	9.25	2.11	4.34	8	1.06
1811910	Rock	2.00	34.12	51.25	2264.13	5306.3	15941	15.3	5.4	>10000	4.70	139.8	1.6	16.2	3.8	98.7	15.27	3.41	4.74	4	0.29
1811911	Rock	1.95	0.40	20.37	4.64	23.6	112	2.9	1.0	55	0.54	0.5	0.1	<0.2	0.5	1.6	0.13	0.03	0.21	2	0.02
1811912	Rock	2.14	2.55	69.67	12.18	>10000	2026	38.3	15.1	564	3.32	8.4	1.6	15.5	17.8	443.3	13.15	0.29	1.01	21	3.50
1811913	Rock	2.67	3.24	21.79	13.80	3230.1	1167	10.6	8.2	1879	2.24	6.5	1.2	3.1	15.3	405.1	5.46	0.32	2.81	31	9.54
1811914	Rock	3.05	19.58	32.44	26.49	6211.6	2169	23.9	9.1	6260	1.99	15.2	1.6	1.6	16.6	155.1	20.38	0.85	10.09	18	3.36
1811915	Rock	1.73	2.49	21.56	34.50	2704.4	1041	8.9	4.9	1996	1.46	8.8	0.9	3.6	6.5	1020.1	6.33	0.50	1.85	12	31.06
1811916	Rock	2.19	3.43	36.75	3.57	99.9	103	25.2	9.1	1245	2.15	0.6	1.6	0.2	15.4	153.4	0.29	0.44	1.36	22	5.83
1811917	Rock	2.04	6.26	26.67	46.61	196.0	303	23.7	7.6	6263	2.44	6.1	1.7	1.0	14.6	209.2	1.23	0.39	0.73	25	13.18
1811918	Rock	2.30	9.18	4.94	98.95	167.8	553	8.3	3.0	7936	4.18	15.4	0.7	<0.2	3.5	391.6	1.05	0.72	0.14	5	22.55
1811919	Rock	2.02	9.83	23.31	7.69	179.7	186	29.2	10.8	1373	2.69	2.4	1.7	<0.2	19.4	229.7	0.65	0.26	0.49	33	2.51
1811361	Rock	3.45	3.79	49.48	16.52	88.2	219	11.7	3.6	73	2.42	39.1	6.0	1.0	10.7	4.3	0.06	0.98	0.33	12	0.04
1811362	Rock	1.39	1.56	3.02	11.71	27.3	26	0.5	0.6	71	0.93	9.9	4.0	<0.2	16.8	2.6	0.04	2.18	<0.02	6	0.08
1811363	Rock	2.43	0.78	31.64	22.65	71.9	10451	24.9	10.9	87	2.95	3.4	2.3	<0.2	25.7	108.8	0.14	0.79	0.12	47	0.76
1811364	Rock	2.10	0.74	329.02	3.34	29.1	439	89.6	50.5	185	8.22	<0.1	2.2	65.5	14.6	215.6	0.05	<0.02	57.22	14	3.81
1811383	Rock	0.85	0.90	135.67	6.67	226.6	99	93.0	57.1	446	6.12	<0.1	3.6	<0.2	16.1	9.2	1.59	0.04	0.63	73	0.05



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Method	Analyte	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ370
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Zn
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	%
MDL		0.001	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.01
1811901	Rock	0.062	16.6	46.1	1.07	65.2	0.060	<20	1.75	0.023	0.72	<0.1	6.4	0.73	1.53	<5	<0.1	0.04	7.7	
1811902	Rock	0.014	22.6	38.7	0.91	53.2	0.014	<20	1.95	0.020	0.55	0.1	5.7	0.43	0.27	<5	<0.1	0.06	6.1	
1811903	Rock	0.026	41.5	29.4	0.77	45.6	0.011	<20	2.06	0.009	0.55	<0.1	5.7	0.41	0.03	<5	<0.1	0.03	5.3	
1811904	Rock	0.012	25.9	36.9	0.93	44.4	0.007	<20	1.88	0.013	0.64	<0.1	4.0	0.51	0.31	<5	<0.1	0.05	5.7	
1811905	Rock	0.039	31.5	31.2	0.51	16.9	0.006	<20	1.73	0.007	0.08	31.3	6.4	0.14	0.21	<5	0.2	0.06	6.7	
1811906	Rock	0.019	13.9	5.5	0.17	21.5	<0.001	<20	0.26	0.002	0.16	1.8	4.7	0.15	0.38	<5	0.2	<0.02	<0.1	
1811907	Rock	0.161	24.3	24.0	0.62	17.9	0.026	<20	2.10	0.008	0.03	>100	3.9	0.15	0.04	<5	<0.1	0.19	11.4	
1811908	Rock	0.105	25.7	20.4	0.38	21.7	0.036	<20	1.75	0.008	0.03	>100	4.1	0.06	0.03	*	<0.1	0.13	9.4	
1811909	Rock	0.022	28.6	8.1	0.08	25.8	0.003	<20	0.53	0.002	0.23	2.4	4.3	0.30	0.05	11	0.2	0.06	1.7	
1811910	Rock	0.011	11.3	9.6	0.02	13.2	<0.001	<20	0.21	0.003	0.16	0.9	2.5	0.22	0.11	<5	0.3	0.16	0.7	
1811911	Rock	0.001	0.6	13.3	0.03	1.9	0.002	<20	0.09	0.003	0.01	0.3	0.3	<0.02	<0.02	<5	<0.1	<0.02	0.5	
1811912	Rock	0.043	44.2	28.4	0.67	54.4	0.060	<20	2.13	0.063	0.12	1.1	5.4	0.14	0.03	15	0.4	<0.02	6.5	1.16
1811913	Rock	0.129	30.0	9.7	0.49	71.5	0.089	<20	1.70	0.028	0.12	2.8	3.5	0.11	<0.02	<5	<0.1	0.05	5.2	
1811914	Rock	0.057	32.0	19.5	0.73	73.0	0.058	<20	2.00	0.042	0.06	10.1	5.3	0.13	<0.02	5	<0.1	0.09	6.1	
1811915	Rock	0.067	12.3	7.4	0.37	44.2	0.020	<20	0.94	0.009	0.14	2.6	2.3	0.13	<0.02	<5	0.1	0.07	2.5	
1811916	Rock	0.068	41.2	30.9	0.35	49.0	0.052	<20	1.85	0.027	0.14	2.3	6.0	0.16	0.04	<5	<0.1	0.06	5.9	
1811917	Rock	0.050	44.7	30.1	0.49	36.5	0.048	<20	1.97	0.030	0.31	4.7	5.2	0.23	<0.02	<5	<0.1	0.03	6.4	
1811918	Rock	0.013	18.0	5.3	0.76	4.5	0.001	<20	0.53	0.002	0.09	0.8	2.4	0.10	<0.02	<5	<0.1	0.04	1.3	
1811919	Rock	0.059	36.7	40.2	0.87	53.7	0.096	<20	2.84	0.158	0.45	0.3	5.7	0.29	<0.02	<5	<0.1	<0.02	8.5	
1811361	Rock	0.024	22.9	11.9	0.03	45.8	<0.001	<20	0.47	0.004	0.22	0.4	8.2	0.18	<0.02	<5	<0.1	0.03	1.7	
1811362	Rock	0.049	33.3	3.0	<0.01	12.3	0.001	<20	0.40	0.001	0.13	0.2	1.7	0.14	<0.02	<5	<0.1	<0.02	1.1	
1811363	Rock	0.030	44.9	47.6	0.88	45.2	0.150	<20	1.68	0.098	0.29	0.6	6.2	0.18	0.81	<5	<0.1	0.05	7.4	
1811364	Rock	0.070	30.4	18.7	0.19	32.3	0.059	<20	5.80	0.189	0.05	39.3	2.0	0.21	6.31	<5	1.2	0.97	19.4	
1811383	Rock	0.008	43.1	88.8	1.22	230.4	0.185	<20	3.20	0.029	1.18	0.2	15.4	1.22	0.69	<5	<0.1	0.13	11.9	



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QUALITY CONTROL REPORT

WHI20000256.2

Method	WGHT	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	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	
Pulp Duplicates																					
1811909	Rock	2.73	47.18	41.37	1576.22	4611.4	10326	21.6	7.0	>10000	4.80	82.3	2.0	5.9	8.9	80.3	9.25	2.11	4.34	8	1.06
REP 1811909	QC		46.26	43.49	1600.29	4637.6	10263	22.0	7.4	>10000	4.89	85.9	2.1	6.1	10.1	81.7	9.75	2.20	4.66	8	1.06
Core Reject Duplicates																					
1811915	Rock	1.73	2.49	21.56	34.50	2704.4	1041	8.9	4.9	1996	1.46	8.8	0.9	3.6	6.5	1020.1	6.33	0.50	1.85	12	31.06
DUP 1811915	QC		2.44	21.09	33.59	2680.4	1052	10.2	5.2	1947	1.45	9.1	0.9	4.7	6.3	1005.5	6.17	0.46	1.92	12	30.82
Reference Materials																					
STD CDN-ME-9A	Standard																				
STD CDN-ME-14A	Standard																				
STD DS11	Standard		13.87	147.45	140.04	340.3	1597	76.6	13.8	1042	3.11	45.6	2.7	55.9	8.9	63.3	2.16	7.16	11.21	49	1.04
STD OREAS262	Standard		0.64	113.58	60.45	155.9	483	67.4	29.0	577	3.34	37.0	1.3	69.2	10.4	37.0	0.74	2.66	1.03	22	3.13
STD DS11 Expected			13.9	149	138	345	1710	77.7	14.2	1055	3.1	42.8	2.59	79	7.65	67.3	2.37	7.2	12.2	50	1.063
STD OREAS262 Expected			0.68	118	56	154	450	62	26.9	530	3.284	35.8	1.22	65	9.33	36	0.61	3.39	1.03	22.5	2.98
STD CDN-ME-9A Expected																					
STD CDN-ME-14A Expected																					
BLK	Blank		<0.01	<0.01	0.04	<0.1	<2	<0.1	<0.1	2	<0.01	<0.1	<0.1	<0.2	0.1	0.9	<0.01	<0.02	<0.02	<1	<0.01
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank		0.63	4.18	1.13	30.3	6	1.2	4.1	456	1.81	1.3	0.4	2.8	2.5	19.8	0.02	0.03	<0.02	25	0.60
ROCK-WHI	Prep Blank		0.61	1.95	1.00	27.3	4	0.7	3.4	437	1.75	1.1	0.4	0.4	3.0	18.5	0.03	<0.02	<0.02	23	0.53



QUALITY CONTROL REPORT

WHI20000256.2

Method		AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ370	
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Zn
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	%
MDL		0.001	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.01
Pulp Duplicates																				
1811909	Rock	0.022	28.6	8.1	0.08	25.8	0.003	<20	0.53	0.002	0.23	2.4	4.3	0.30	0.05	11	0.2	0.06	1.7	
REP 1811909	QC	0.021	29.9	8.6	0.09	27.4	0.003	<20	0.52	0.003	0.22	2.5	4.3	0.27	0.05	<5	<0.1	0.07	1.8	
Core Reject Duplicates																				
1811915	Rock	0.067	12.3	7.4	0.37	44.2	0.020	<20	0.94	0.009	0.14	2.6	2.3	0.13	<0.02	<5	0.1	0.07	2.5	
DUP 1811915	QC	0.067	12.6	7.9	0.37	44.5	0.021	<20	0.94	0.010	0.14	2.6	2.3	0.11	<0.02	7	<0.1	0.04	2.8	
Reference Materials																				
STD CDN-ME-9A	Standard																			<0.01
STD CDN-ME-14A	Standard																			2.99
STD DS11	Standard	0.069	17.7	57.7	0.85	423.7	0.080	<20	1.10	0.070	0.39	3.3	3.2	5.03	0.28	264	2.0	4.11	4.9	
STD OREAS262	Standard	0.043	16.9	43.9	1.21	265.6	0.003	<20	1.34	0.068	0.31	0.1	3.4	0.56	0.27	177	0.4	0.27	4.0	
STD DS11 Expected		0.0701	18.6	61.5	0.85	417	0.0976		1.129	0.0694	0.4	2.9	3.1	4.9	0.2835	260	2.2	4.56	4.7	
STD OREAS262 Expected		0.04	15.9	41.7	1.17	248	0.003		1.3	0.071	0.312	0.13	3.24	0.47	0.269	170	0.4	0.23	3.9	
STD CDN-ME-9A Expected																				0.0096
STD CDN-ME-14A Expected																				2.97
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	
BLK	Blank																			<0.01
Prep Wash																				
ROCK-WHI	Prep Blank	0.043	5.9	6.2	0.48	55.8	0.067	<20	0.80	0.059	0.06	<0.1	2.5	<0.02	0.02	<5	<0.1	<0.02	3.5	
ROCK-WHI	Prep Blank	0.042	5.9	6.0	0.45	52.9	0.067	<20	0.76	0.061	0.06	<0.1	2.6	<0.02	<0.02	<5	<0.1	<0.02	3.6	