



**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: **Kreft, Bernie**
1 Locust Place
Whitehorse Yukon Y1A 5G9 Canada

Submitted By: Bernie Kreft
Receiving Lab: Canada-Whitehorse
Received: September 03, 2019
Report Date: September 12, 2019
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI19000491.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 20

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 60 days

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: Kreft, Bernie
1 Locust Place
Whitehorse Yukon Y1A 5G9
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	20	Crush, split and pulverize 250 g rock to 200 mesh			WHI
FA430	20	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	20	Environmental disposal charge-Fire assay lead waste			VAN
AQ300	20	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN
SHP01	20	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS


LILYBETH DE VERA-BOY
Fire Assay Spectroscopy Manager

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

WHI19000491.1

	Method Analyte Unit MDL	WGHT	FA430	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	0.001
BQION-01	Rock	0.31	<0.005	<1	7	<3	12	<0.3	5	4	163	0.86	2	<2	3	<0.5	<3	<3	12	0.08	0.015
POER-01	Rock	0.51	0.006	<1	17	3	47	<0.3	41	4	459	1.39	94	<2	6	<0.5	<3	<3	17	0.02	0.022
POER-02	Rock	0.63	<0.005	<1	3	<3	10	<0.3	16	1	80	0.43	45	<2	1	<0.5	<3	<3	1	0.03	0.013
POER-03	Rock	1.11	<0.005	<1	7	8	45	0.4	22	4	34	1.25	8	<2	4	<0.5	<3	<3	8	0.03	0.023
POER-04	Rock	0.99	<0.005	<1	13	<3	5	<0.3	11	1	31	0.53	4	<2	1	<0.5	<3	<3	2	<0.01	0.003
POER-05	Rock	1.13	0.005	<1	2	4	4	<0.3	10	2	34	0.96	34	<2	45	<0.5	<3	<3	14	<0.01	0.019
POER-06	Rock	1.08	<0.005	1	9	<3	3	<0.3	2	<1	34	0.46	79	<2	7	<0.5	<3	<3	2	<0.01	0.005
POER-07	Rock	1.12	0.812	<1	91	6	10	3.1	10	6	32	2.10	2640	<2	2	<0.5	72	<3	12	<0.01	0.002
POER-08	Rock	0.99	0.610	<1	75	<3	12	1.4	9	4	37	1.71	1858	<2	1	<0.5	56	<3	10	<0.01	<0.001
POER-09	Rock	0.81	0.342	<1	35	8	13	2.1	27	10	32	2.77	1128	<2	4	<0.5	22	<3	22	<0.01	0.006
POER-10	Rock	1.30	0.008	1	1	<3	2	<0.3	2	<1	55	0.42	11	<2	3	<0.5	<3	<3	11	<0.01	0.003
HWY-10	Rock	1.10	0.204	2	5	4	2	1.4	<1	<1	33	0.52	333	<2	7	<0.5	14	<3	10	<0.01	0.019
HWY-11	Rock	1.07	0.308	<1	22	32	20	2.8	9	<1	124	2.05	2011	<2	10	<0.5	21	<3	21	0.04	0.006
HWY-12	Rock	0.80	0.015	2	25	<3	244	0.5	118	38	796	3.12	92	<2	3	<0.5	3	<3	9	0.01	0.050
HWY-13	Rock	0.93	0.017	6	122	5	43	6.9	91	4	122	2.31	1315	<2	5	<0.5	21	<3	29	0.02	0.005
HWY-14	Rock	0.87	0.401	<1	5	<3	3	0.6	1	<1	46	0.56	1594	<2	2	<0.5	10	<3	3	0.01	0.008
HWY-15	Rock	1.30	0.326	<1	5	<3	4	0.9	2	<1	52	1.22	1914	<2	7	<0.5	21	<3	5	<0.01	0.017
RIR-01	Rock	1.10	0.012	<1	5	<3	7	<0.3	3	3	264	0.72	15	<2	1	<0.5	<3	<3	10	0.04	0.005
RIR-02	Rock	0.54	0.028	<1	91	6	70	<0.3	15	27	1061	5.65	39	<2	3	<0.5	<3	<3	37	0.13	0.064
RIR-03	Rock	0.45	<0.005	<1	3	<3	2	<0.3	1	2	82	0.40	2	<2	1	<0.5	<3	<3	4	0.09	0.036



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CERTIFICATE OF ANALYSIS

WHI19000491.1

Method Analyte Unit MDL		AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
BQION-01	Rock	1	5	0.30	27	0.021	<20	0.47	0.01	0.02	<2	<0.05	<1	<5	<5	<5
POER-01	Rock	4	36	0.02	243	0.002	<20	0.20	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
POER-02	Rock	<1	7	<0.01	16	<0.001	<20	0.05	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
POER-03	Rock	5	6	0.02	211	0.001	<20	0.21	<0.01	0.13	<2	0.90	<1	<5	<5	<5
POER-04	Rock	<1	2	<0.01	20	<0.001	<20	0.04	<0.01	<0.01	<2	0.23	<1	<5	<5	<5
POER-05	Rock	4	8	0.02	661	0.003	<20	0.24	<0.01	0.11	<2	0.67	<1	<5	<5	<5
POER-06	Rock	<1	2	<0.01	50	<0.001	<20	0.03	<0.01	<0.01	<2	0.06	<1	<5	<5	<5
POER-07	Rock	<1	10	<0.01	24	<0.001	<20	0.36	<0.01	0.03	<2	1.73	<1	<5	<5	<5
POER-08	Rock	<1	6	<0.01	31	<0.001	<20	0.22	<0.01	0.03	<2	1.49	<1	<5	<5	<5
POER-09	Rock	2	20	<0.01	104	<0.001	<20	0.55	<0.01	0.03	<2	2.59	<1	<5	<5	<5
POER-10	Rock	<1	5	<0.01	43	<0.001	<20	0.10	<0.01	0.03	<2	<0.05	<1	<5	<5	<5
HWY-10	Rock	2	5	0.01	85	<0.001	<20	0.15	<0.01	0.10	<2	<0.05	<1	<5	<5	<5
HWY-11	Rock	2	358	0.20	63	<0.001	<20	0.42	<0.01	0.10	<2	0.05	<1	<5	<5	<5
HWY-12	Rock	5	14	0.08	151	0.001	<20	0.45	<0.01	0.09	<2	<0.05	<1	<5	<5	<5
HWY-13	Rock	<1	1415	0.96	87	<0.001	<20	1.09	<0.01	0.01	<2	0.06	<1	<5	9	<5
HWY-14	Rock	<1	4	0.03	52	<0.001	<20	0.21	<0.01	0.12	<2	<0.05	<1	<5	<5	<5
HWY-15	Rock	1	12	0.02	79	<0.001	<20	0.20	<0.01	0.15	<2	0.11	<1	<5	<5	<5
RIR-01	Rock	<1	4	0.19	38	0.015	<20	0.27	0.02	0.03	<2	<0.05	<1	<5	<5	<5
RIR-02	Rock	8	7	0.41	264	0.004	<20	1.49	0.01	0.34	<2	0.08	<1	<5	<5	6
RIR-03	Rock	<1	3	0.07	17	0.005	<20	0.12	0.03	0.01	<2	<0.05	<1	<5	<5	<5



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QUALITY CONTROL REPORT

WHI19000491.1

	Method Analyte Unit MDL	WGHT	FA430	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.005	1	1	3	1	0.3	1	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01
Pulp Duplicates																					
HWY-13	Rock	0.93	0.017	6	122	5	43	6.9	91	4	122	2.31	1315	<2	5	<0.5	21	<3	29	0.02	0.005
REP HWY-13	QC	0.018																			
Reference Materials																					
STD DS11	Standard			15	148	137	348	1.9	78	13	1026	3.12	44	6	65	2.1	7	11	49	1.05	0.070
STD OREAS262	Standard			<1	119	54	153	0.4	63	27	539	3.34	36	8	36	<0.5	<3	<3	21	3.00	0.038
STD OXC152	Standard	0.204																			
STD OXH139	Standard	1.288																			
STD OXN134	Standard	7.936																			
STD OXC152 Expected		0.216																			
STD OXH139 Expected		1.312																			
STD OXN134 Expected		7.667																			
STD DS11 Expected				13.9	156	138	345	1.71	81.9	14.2	1055	3.2082	42.8	7.65	67.3	2.37	7.2	12.2	50	1.063	0.0701
STD OREAS262 Expected					118	56	154	0.45	62	26.9	530	3.284	35.8	9.33	36	0.61	3.39		22.5	2.98	0.04
BLK	Blank	<0.005																			
BLK	Blank			<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	3	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001
Prep Wash																					
ROCK-WHI	Prep Blank		<0.005	<1	2	<3	25	<0.3	1	3	470	1.67	<2	<2	19	<0.5	<3	<3	23	0.57	0.037
ROCK-WHI	Prep Blank		<0.005	<1	3	<3	32	<0.3	1	4	528	1.86	<2	<2	19	<0.5	<3	<3	24	0.59	0.040



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
Pulp Duplicates																
HWY-13	Rock	<1	1415	0.96	87	<0.001	<20	1.09	<0.01	0.01	<2	0.06	<1	<5	9	<5
REP HWY-13	QC															
Reference Materials																
STD DS11	Standard	17	57	0.84	431	0.088	<20	1.14	0.07	0.40	3	0.28	<1	5	<5	<5
STD OREAS262	Standard	15	40	1.18	254	0.003	<20	1.24	0.07	0.30	<2	0.26	<1	<5	<5	<5
STD OXC152	Standard															
STD OXH139	Standard															
STD OXN134	Standard															
STD OXC152 Expected																
STD OXH139 Expected																
STD OXN134 Expected																
STD DS11 Expected		18.6	61.5	0.85	417	0.0976	6	1.129	0.0694	0.4	2.9	0.2835	0.3	4.9	4.7	3.1
STD OREAS262 Expected		15.9	41.7	1.17	248	0.003		1.204	0.071	0.312		0.253			3.73	3.24
BLK	Blank															
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
Prep Wash																
ROCK-WHI	Prep Blank	5	3	0.47	54	0.066	<20	0.85	0.08	0.09	<2	<0.05	<1	<5	<5	<5
ROCK-WHI	Prep Blank	5	1	0.52	54	0.073	<20	0.91	0.07	0.08	<2	<0.05	<1	<5	<5	<5