



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: **Fireweed Zinc Ltd.**
Suite 1020, 800 Pender Street
Vancouver British Columbia V5C 2V6 Canada

Submitted By: Confirmation & Email Distribution List
Receiving Lab: Canada-Whitehorse
Received: September 24, 2018
Report Date: November 30, 2018
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI18000986.1

CLIENT JOB INFORMATION

Project: MacMillan Pass
Shipment ID: FWZ18-BV-035
P.O. Number
Number of Samples: 8

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT Store After 60 days Invoice for Storage

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	8	Crush, split and pulverize 500g rock to 200 mesh			WHI
CRUBW	8	Extra clean rock wash between samples in crusher			WHI
PULSW	8	Extra Wash with Silica between each sample			WHI
FA330	8	Fire assay fusion Au Pt Pd by ICP-ES	30	Completed	VAN
EN002	8	Environmental disposal charge-Fire assay lead waste			VAN
AQ270	8	1:1:1 Aqua Regia digestion ICP-ES/ICP-MS analysis	1	Completed	VAN
LF725	8	Li2B4O7/LiBO2 fusion, analysis by XRF		Completed	VAN
TC006	8	15% HClO4 leach, CO2 analysis by Leco	0.2	Completed	VAN
TC003	8	Analysis by Leco	0.1	Completed	VAN
SHP01	8	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS

Invoice To: Fireweed Zinc Ltd.
Suite 1020, 800 Pender Street
Vancouver British Columbia V5C 2V6
Canada

CC:



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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Project: MacMillan Pass

Report Date: November 30, 2018

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CERTIFICATE OF ANALYSIS

WHI18000986.1

	Method	WGHT	FA330	FA330	FA330	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
	Analyte	Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi
	Unit	kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.01	2	3	2	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5
3207424	Drill Core	2.81	3	<3	<2	0.6	32.4	59.5	164	<0.5	27.3	14.4	945	3.99	13	2.1	19.2	57	<0.5	2.1	<0.5
3207425	Drill Core	3.10	4	<3	<2	2.3	27.5	33.2	114	<0.5	29.5	14.6	898	3.40	15	2.3	19.2	72	<0.5	1.8	<0.5
3207426	Drill Core	4.50	16	<3	<2	6.3	137.4	5515.4	2206	10.0	54.8	24.0	3344	11.92	69	1.3	4.5	108	9.9	14.0	<0.5
3207427	Drill Core	2.48	8	<3	2	5.0	71.9	469.6	62	1.4	41.1	14.8	775	4.98	9	2.3	15.1	47	<0.5	4.2	<0.5
3207428	Drill Core	6.04	14	<3	5	6.5	70.6	407.0	97	1.6	64.0	12.4	930	4.43	8	2.5	5.1	52	<0.5	7.3	<0.5
3207429	Rock	0.49	<2	<3	<2	0.7	6.0	2.0	37	<0.5	2.8	4.5	615	1.95	<5	<0.5	1.8	31	<0.5	<0.5	<0.5
3207430	Drill Core	5.81	25	9	3	5.1	117.4	5407.2	292	16.3	56.6	15.1	2228	10.75	43	4.3	3.1	81	1.2	24.1	<0.5
3207431	Drill Core	2.48	8	6	7	8.6	43.0	428.9	201	1.4	99.5	8.3	1739	5.26	<5	3.1	4.3	77	0.7	8.1	<0.5



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Project: MacMillan Pass
Report Date: November 30, 2018

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CERTIFICATE OF ANALYSIS

WHI18000986.1

	Method Analyte Unit MDL	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725
		V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	SiO2	Al2O3
		ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%
		10	0.01	0.001	0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01
3207424	Drill Core	<10	1.36	0.095	44.6	12.0	0.66	481	0.003	1.47	<0.01	0.23	<0.5	0.05	5.3	<0.5	0.55	<5	<2	55.60	20.90
3207425	Drill Core	10	1.77	0.088	44.9	10.0	0.72	507	0.003	1.11	<0.01	0.25	<0.5	<0.05	4.5	<0.5	0.55	<5	<2	54.50	21.20
3207426	Drill Core	74	3.84	0.036	8.1	20.3	1.73	269	0.005	1.33	<0.01	0.14	<0.5	0.48	6.2	<0.5	4.19	<5	4	47.00	8.27
3207427	Drill Core	32	0.84	0.079	26.1	13.8	0.38	390	0.004	1.13	<0.01	0.24	<0.5	<0.05	3.6	<0.5	1.90	<5	<2	54.50	20.60
3207428	Drill Core	40	0.99	0.061	11.1	10.0	0.24	349	0.003	0.57	<0.01	0.17	<0.5	0.06	2.3	<0.5	2.32	<5	4	70.90	9.82
3207429	Rock	26	0.89	0.047	5.7	2.6	0.49	67	0.098	1.12	0.11	0.10	<0.5	<0.05	5.9	<0.5	<0.05	<5	<2	70.50	13.90
3207430	Drill Core	60	1.54	0.051	7.2	13.9	0.55	250	0.003	0.79	<0.01	0.15	<0.5	0.13	4.0	<0.5	6.48	<5	8	59.40	6.68
3207431	Drill Core	81	1.79	0.066	10.3	10.1	0.56	236	0.004	0.56	<0.01	0.12	<0.5	0.07	2.5	<0.5	1.44	<5	<2	64.00	8.60



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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL		LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC006	TC000	TC000	
		Fe2O3	CaO	MgO	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	CO2	TOT/C	TOT/S
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.02	0.02	0.02
3207424	Drill Core	6.23	1.97	1.39	4.76	0.15	0.75	0.18	0.01	0.90	<0.01	<0.01	0.01	5.76	98.90	2.48	1.00	0.54
3207425	Drill Core	5.52	2.60	1.51	4.98	0.13	0.80	0.17	0.01	0.93	<0.01	<0.01	0.01	6.65	99.33	3.15	1.36	0.55
3207426	Drill Core	18.10	5.62	3.00	1.57	0.44	0.39	0.08	<0.01	0.29	0.01	0.57	0.24	10.69	96.46	9.42	3.65	4.08
3207427	Drill Core	7.85	1.21	0.89	4.83	0.13	0.85	0.18	0.02	0.86	<0.01	0.04	<0.01	6.42	98.71	1.72	1.35	1.95
3207428	Drill Core	6.84	1.42	0.59	2.39	0.15	0.56	0.13	0.01	0.41	<0.01	0.04	0.01	5.51	98.96	1.88	1.90	2.37
3207429	Rock	3.40	2.57	1.02	1.81	0.12	0.36	0.10	<0.01	0.08	<0.01	<0.01	<0.01	1.35	99.73	0.43	0.15	<0.02
3207430	Drill Core	16.20	2.26	1.03	1.45	0.31	0.38	0.11	<0.01	0.24	<0.01	0.53	0.03	9.23	98.01	4.35	2.29	6.63
3207431	Drill Core	8.05	2.64	1.09	1.96	0.24	0.48	0.14	<0.01	0.31	<0.01	0.04	0.02	10.45	98.16	4.44	6.13	1.57



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MacMillan Pass

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QUALITY CONTROL REPORT

WHI18000986.1

	Method Analyte Unit MDL	WGHT	FA330	FA330	FA330	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	
		Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	
		kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		0.01	2	3	2	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	
Pulp Duplicates																						
3207424	Drill Core	2.81	3	<3	<2	0.6	32.4	59.5	164	<0.5	27.3	14.4	945	3.99	13	2.1	19.2	57	<0.5	2.1	<0.5	
REP 3207424	QC					0.6	30.6	57.1	153	<0.5	25.4	15.2	1072	3.99	13	2.1	17.4	59	<0.5	2.0	<0.5	
3207430	Drill Core	5.81	25	9	3	5.1	117.4	5407.2	292	16.3	56.6	15.1	2228	10.75	43	4.3	3.1	81	1.2	24.1	<0.5	
REP 3207430	QC	23				6	4															
Reference Materials																						
STD COO1	Standard																					
STD COO1	Standard																					
STD GBM398-4-AR	Standard					911.0	3990.3	11384.9	5274	50.4	4133.6	2094.9	5215	3.76	6	0.6	0.8	13	9.6	6.9	12.8	
STD GS311-1	Standard																					
STD GS910-4	Standard																					
STD OREAS133B(D)	Standard																					
STD OREAS72B	Standard																					
STD OREAS927-AR	Standard					1.1	10886.4	222.4	719	4.3	31.5	32.0	1046	7.95	14	1.8	12.3	13	1.2	1.4	67.0	
STD PD05	Standard	507		446	612																	
STD PG04	Standard	991		949	1232																	
STD SY-4(D)	Standard																					
STD GS311-1 Expected																						
STD GS910-4 Expected																						
STD GBM398-4-AR Expected						917	3919	11750	5345	49.2	4135	1950	5260	3.95	6	0.7	0.8	13	9.2	7.2	12.9	
STD OREAS927-AR Expected						1.06	10715	212	726	4.9	30.9	29.4	1110	8.15	13.5	1.7	12.5	13.1	1.1	1.3	66	
STD COO1 Expected																						
STD PD05 Expected		519		430	596																	
STD PG04 Expected		1004		903	1196																	
STD SY-4(D) Expected																						
STD OREAS72B Expected																						
STD OREAS133B(D) Expected																						
BLK	Blank																					
BLK	Blank					<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	



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QUALITY CONTROL REPORT

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Method Analyte Unit MDL		AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725
		V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	SiO2	Al2O3
		ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%
		10	0.01	0.001	0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01
Pulp Duplicates																					
3207424	Drill Core	<10	1.36	0.095	44.6	12.0	0.66	481	0.003	1.47	<0.01	0.23	<0.5	0.05	5.3	<0.5	0.55	<5	<2	55.60	20.90
REP 3207424	QC	<10	1.37	0.087	45.7	12.1	0.66	539	0.004	1.46	<0.01	0.26	<0.5	<0.05	5.7	<0.5	0.54	<5	<2		
3207430	Drill Core	60	1.54	0.051	7.2	13.9	0.55	250	0.003	0.79	<0.01	0.15	<0.5	0.13	4.0	<0.5	6.48	<5	8	59.40	6.68
REP 3207430	QC																				
Reference Materials																					
STD COO1	Standard																				
STD COO1	Standard																				
STD GBM398-4-AR	Standard	25	0.33	0.018	2.5	2023.9	0.11	19	0.111	0.46	0.24	0.09	3.0	3.17	2.0	<0.5	0.95	<5	3		
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD OREAS133B(D)	Standard																			33.50	6.80
STD OREAS72B	Standard																			51.40	8.96
STD OREAS927-AR	Standard	34	0.28	0.053	26.3	41.2	1.90	46	0.080	3.21	<0.01	0.29	5.4	0.15	6.0	<0.5	1.73	9	17		
STD PD05	Standard																				
STD PG04	Standard																				
STD SY-4(D)	Standard																			49.60	20.70
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD GBM398-4-AR Expected		24	0.34	0.02	2.8	1950	0.12	21	0.111	0.48	0.25	0.11	3	3.21	1.79		0.94		3		
STD OREAS927-AR Expected		34	0.3	0.054	26.9	41.7	1.94	51.4	0.085	3.25	0.011	0.27	4.9	0.12	4.74		1.77	9.09	15.5		
STD COO1 Expected																					
STD PD05 Expected																					
STD PG04 Expected																					
STD SY-4(D) Expected																				49.9	20.69
STD OREAS72B Expected																				51.16	8.97
STD OREAS133B(D) Expected																				33.83	6.91
BLK	Blank																				
BLK	Blank	<10	<0.01	0.002	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.05	<5	<2		



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QUALITY CONTROL REPORT

WHI18000986.1

Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC006	TC000	TC000
Analyte	Fe2O3	CaO	MgO	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	CO2	TOT/C	TOT/S
Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
MDL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.02	0.02	0.02
Pulp Duplicates																	
3207424 Drill Core	6.23	1.97	1.39	4.76	0.15	0.75	0.18	0.01	0.90	<0.01	<0.01	0.01	5.76	98.90	2.48	1.00	0.54
REP 3207424 QC																	
3207430 Drill Core	16.20	2.26	1.03	1.45	0.31	0.38	0.11	<0.01	0.24	<0.01	0.53	0.03	9.23	98.01	4.35	2.29	6.63
REP 3207430 QC																	
Reference Materials																	
STD COO1 Standard															2.34		
STD COO1 Standard															2.33		
STD GBM398-4-AR Standard																	
STD GS311-1 Standard																0.96	2.27
STD GS910-4 Standard																2.58	7.95
STD OREAS133B(D) Standard	11.50	5.31	3.71	3.44	0.16	0.23	0.10	<0.01	0.07	0.03	5.06	11.33	13.00	97.42			
STD OREAS72B Standard	9.87	3.99	15.90	1.33	0.15	0.36	0.06	0.15	0.03	0.02	<0.01	<0.01	5.12	98.66			
STD OREAS927-AR Standard																	
STD PD05 Standard																	
STD PG04 Standard																	
STD SY-4(D) Standard	6.17	8.00	0.53	1.66	0.11	0.29	0.18	<0.01	0.03	<0.01	<0.01	0.03	4.56	98.78			
STD GS311-1 Expected																1.02	2.35
STD GS910-4 Expected																2.65	8.27
STD GBM398-4-AR Expected																	
STD OREAS927-AR Expected																	
STD COO1 Expected															2.37		
STD PD05 Expected																	
STD PG04 Expected																	
STD SY-4(D) Expected	6.21		0.54	1.66	0.108	0.287	0.131		0.0345				4.56				
STD OREAS72B Expected	9.724	3.96	15.933	1.313	0.13	0.355	0.061	0.142	0.0335	0.0193			5.12				
STD OREAS133B(D) Expected	11.67	5.4	3.73						0.08	0.032	5.06	11.35					
BLK Blank																<0.02	<0.02
BLK Blank																	



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		WGHT	FA330	FA330	FA330	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi
		kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	2	3	2	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5
BLK	Blank																				
BLK	Blank		3	<3	<2																
BLK	Blank		3	<3	<2																
SI BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank		3	<3	<2	1.3	5.5	2.3	37	<0.5	1.8	4.3	555	1.95	<5	0.5	2.4	25	<0.5	<0.5	<0.5
ROCK-WHI	Prep Blank		2	<3	<2	1.3	5.2	2.6	33	<0.5	1.1	3.9	533	1.92	<5	<0.5	2.6	23	<0.5	<0.5	<0.5



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Vancouver British Columbia V5C 2V6 Canada

Project:

MacMillan Pass

Report Date:

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QUALITY CONTROL REPORT

WHI18000986.1

		AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725
		V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	SiO2	Al2O3
		ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%
		10	0.01	0.001	0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
SI BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank	24	0.67	0.042	6.8	1.9	0.46	79	0.100	1.06	0.13	0.13	<0.5	<0.05	5.7	<0.5	<0.05	<5	<2	71.00	13.90
ROCK-WHI	Prep Blank	23	0.63	0.049	6.7	1.8	0.45	66	0.095	0.95	0.10	0.11	<0.5	<0.05	4.4	<0.5	<0.05	<5	<2	71.00	14.00



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QUALITY CONTROL REPORT

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		LF725 Fe2O3	LF725 CaO	LF725 MgO	LF725 K2O	LF725 MnO	LF725 TiO2	LF725 P2O5	LF725 Cr2O3	LF725 Ba	LF725 Cu	LF725 Pb	LF725 Zn	LF725 LOI	LF725 SUM_T	TC006 CO2	TC000 TOT/C	TC000 TOT/S
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.02	0.02	0.02
BLK	Blank	<0.02																
BLK	Blank																	
BLK	Blank																	
SI BLK	Blank	0.02	0.01	0.03	0.02	0.02	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	99.37			
Prep Wash																		
ROCK-WHI	Prep Blank	3.37	2.25	0.90	1.95	0.11	0.35	0.09	<0.01	0.09	<0.01	<0.01	<0.01	1.04	99.53	0.22	0.09	0.03
ROCK-WHI	Prep Blank	3.27	2.24	0.89	1.96	0.11	0.35	0.09	<0.01	0.08	<0.01	<0.01	<0.01	1.00	99.53	0.28	0.08	0.02