



**BUREAU** MINERAL LABORATORIES  
**VERITAS** 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: Dennis Arne  
Receiving Lab: Canada-Whitehorse  
Received: July 04, 2018  
Report Date: August 15, 2018  
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## CERTIFICATE OF ANALYSIS

WHI18000263.1

### CLIENT JOB INFORMATION

Project: MacMillan Pass  
Shipment ID: FWZ18-BV-007  
P.O. Number  
Number of Samples: 203

### SAMPLE DISPOSAL

RTRN-PLP Return After 90 days  
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

CC: Jack Milton  
Gilles Dessureau  
Jill Moore  
Maeve Murphy

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS230	198	Dry at 60C sieve 100g to -230 mesh			WHI
SLBHP	5	Sort, label and box pulps			WHI
AQ250	202	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	0.5	Completed	VAN
SHP01	203	Per sample shipping charges for branch shipments			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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	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		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
3198433	Soil	5.39	72.76	28.64	28.5	1211	12.0	3.3	105	2.55	19.0	2.4	1.4	0.2	20.3	0.15	2.44	0.21	40	0.04
3198434	Soil	14.85	51.65	41.57	46.7	465	16.1	3.4	189	4.51	31.8	2.3	0.6	0.5	32.4	0.19	4.25	0.48	73	0.04
3198435	Soil	5.74	93.19	16.32	32.2	1843	10.5	1.5	70	2.98	11.4	3.3	1.8	0.1	17.5	0.24	1.40	0.23	33	0.04
3198436	Soil	2.15	77.66	6.30	13.5	2843	6.6	0.7	25	1.90	4.6	3.0	0.7	<0.1	8.7	0.17	0.61	0.09	14	0.05
3198437	Soil	10.83	105.47	64.75	57.8	1064	28.2	4.2	179	3.81	53.8	3.8	9.7	0.9	27.6	0.18	6.63	1.69	69	0.04
3198438	Soil	7.48	31.16	31.89	72.5	282	18.7	2.3	71	1.96	18.8	1.5	<0.2	0.1	21.2	0.16	2.42	0.22	35	0.04
3198439	Soil	10.21	66.76	43.93	385.4	365	51.1	5.0	117	11.63	27.5	4.5	3.7	2.0	33.0	0.30	4.30	0.24	47	0.03
3198440	Rock Pulp	12.71	165.01	283.25	221.6	116	82.6	53.0	305	1.67	9.9	0.5	41.6	3.5	36.3	0.61	0.18	0.15	25	0.58
3198441	Soil	11.51	41.14	39.19	208.9	249	45.5	6.0	169	1.93	16.9	1.3	5.7	<0.1	14.6	0.40	3.18	0.18	32	0.04
3198442	Soil	6.59	33.14	18.70	122.5	171	26.7	3.2	60	1.60	14.2	0.9	0.6	<0.1	8.8	0.24	2.00	0.14	24	0.03
3198443	Soil	11.85	73.81	41.03	239.9	378	54.6	7.8	157	3.35	31.1	1.9	4.9	0.6	23.3	0.49	4.19	0.24	37	0.11
3198444	Soil	17.97	75.69	60.92	362.4	798	85.8	11.5	306	3.20	37.7	2.8	6.6	2.0	40.4	1.07	5.91	0.31	48	0.23
3198445	Soil	6.33	41.89	20.47	125.0	196	29.5	3.5	92	2.08	15.0	0.8	9.2	<0.1	7.5	0.29	2.59	0.30	26	0.02
3198446	Soil	19.92	64.59	33.83	305.1	354	66.3	7.9	126	3.16	43.0	2.3	3.7	0.1	19.4	0.38	5.20	0.34	51	<0.01
3198447	Soil	26.25	33.33	50.89	417.8	301	89.2	7.8	173	2.48	37.1	2.4	1.4	<0.1	14.3	0.56	6.22	0.22	54	0.02
3198448	Soil	40.42	60.12	76.90	651.9	359	130.0	11.6	279	3.61	37.5	2.3	1.6	0.4	23.1	0.91	8.09	0.24	71	0.13
3198449	Soil	15.82	16.73	26.50	199.7	224	41.0	3.8	64	1.38	16.2	0.8	<0.2	<0.1	8.4	0.19	2.43	0.15	39	0.01
3198450	Soil	84.94	52.23	113.35	890.5	4614	237.5	17.1	1068	4.82	94.3	6.2	6.2	2.0	15.0	4.31	13.64	0.24	64	0.14
3198451	Soil	85.12	66.30	311.23	1397.8	1628	235.3	18.0	2208	5.93	61.7	3.8	2.8	1.6	11.1	2.74	9.33	0.21	47	0.27
3198452	Soil	19.79	13.66	134.69	515.7	702	46.5	2.2	297	1.42	16.2	1.4	1.7	<0.1	11.5	0.99	2.44	0.07	53	0.22
3198453	Soil	0.43	3.35	2.93	238.5	83	8.1	0.7	87	0.27	0.5	1.3	<0.2	<0.1	18.2	1.44	0.13	0.06	6	0.45
3198454	Soil	0.58	14.54	4.27	1618.1	72	41.5	1.4	65	0.43	1.4	11.1	0.9	0.1	59.8	2.48	0.35	0.11	5	4.21
3198455	Soil	1.73	21.94	19.51	137.8	494	43.3	5.5	241	2.12	12.1	2.9	1.9	1.4	42.8	0.35	1.27	0.18	22	1.02
3198456	Soil	1.35	15.89	15.99	106.4	391	30.7	3.5	143	1.36	6.8	2.1	0.7	1.1	31.4	0.49	0.98	0.12	19	0.75
3198457	Soil	2.43	24.85	26.82	137.5	645	48.2	6.3	483	2.27	15.8	2.3	1.6	2.2	35.3	0.77	1.34	0.20	30	0.68
3198458	Soil	9.27	27.54	17.94	255.4	474	41.1	7.6	350	3.48	65.7	3.8	0.7	2.2	21.8	1.54	3.86	0.22	32	0.25
3198459	Soil	6.65	28.38	28.50	116.8	450	25.5	12.3	380	2.66	45.0	2.3	0.5	<0.1	12.1	0.58	2.69	0.26	34	0.06
3198460	Soil	7.07	41.41	27.47	157.3	748	36.3	5.7	132	2.59	45.7	2.9	1.9	0.5	18.5	0.73	3.58	0.22	37	0.15
3198461	Soil	4.26	10.37	10.48	33.1	48	7.3	1.6	48	0.99	12.1	0.6	0.7	<0.1	8.5	0.07	0.80	0.21	44	0.02
3198462	Soil	5.94	16.26	20.99	69.2	107	15.7	3.8	175	2.70	19.9	1.0	0.8	0.2	14.1	0.22	1.54	0.29	54	0.04



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
		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
3198433	Soil	7.7	12.3	0.08	69.2	0.009	<20	0.94	0.018	0.06	<0.1	1.1	0.35	0.06	50	3.4	0.14	2.6
3198434	Soil	13.1	20.9	0.07	143.2	0.013	<20	0.72	0.007	0.07	0.1	1.4	0.47	0.06	24	4.2	0.16	4.2
3198435	Soil	6.3	9.4	0.04	49.4	0.012	<20	0.74	0.018	0.04	0.1	1.0	0.31	0.05	36	1.6	0.06	3.2
3198436	Soil	2.5	4.7	0.04	15.9	0.012	<20	0.81	0.021	0.03	<0.1	0.9	0.21	0.05	63	1.2	<0.02	2.5
3198437	Soil	19.6	15.5	0.09	104.2	0.010	<20	1.03	0.008	0.07	0.1	2.5	0.25	0.07	69	6.7	0.26	2.6
3198438	Soil	11.1	8.3	0.04	64.6	0.007	<20	0.58	0.012	0.04	0.1	0.6	0.16	0.04	30	1.3	0.06	2.3
3198439	Soil	11.1	15.8	0.04	94.4	0.010	<20	0.76	0.002	0.06	<0.1	1.6	0.22	0.04	56	3.8	0.05	1.8
3198440	Rock Pulp	27.7	33.2	0.50	65.4	0.078	<20	0.83	0.093	0.12	<0.1	3.7	0.08	0.04	19	<0.1	0.03	3.0
3198441	Soil	9.1	6.1	0.02	67.9	0.004	<20	0.55	0.016	0.04	<0.1	0.7	0.16	0.03	27	2.3	0.11	1.8
3198442	Soil	10.8	6.7	0.02	52.4	0.004	<20	0.59	0.014	0.04	<0.1	0.6	0.10	0.03	23	1.3	0.04	1.8
3198443	Soil	20.1	10.1	0.07	89.7	0.006	<20	0.52	0.007	0.05	0.1	1.2	0.16	0.03	31	3.1	0.13	1.7
3198444	Soil	20.5	11.5	0.10	104.8	0.012	<20	0.57	0.008	0.06	<0.1	2.4	0.28	0.03	97	3.9	0.13	1.7
3198445	Soil	6.4	9.4	0.02	47.7	0.005	<20	0.45	0.016	0.04	<0.1	0.5	0.10	0.06	42	1.3	0.16	2.5
3198446	Soil	23.6	7.5	0.02	82.1	0.003	<20	0.36	0.001	0.05	<0.1	0.8	0.22	0.03	11	3.4	0.11	1.5
3198447	Soil	11.6	8.0	0.02	80.3	0.002	<20	0.31	0.003	0.05	<0.1	0.5	0.41	0.03	24	3.9	0.14	1.3
3198448	Soil	18.2	10.4	0.02	90.8	0.004	<20	0.36	<0.001	0.06	<0.1	1.0	0.36	0.03	28	6.3	0.11	1.2
3198449	Soil	13.8	6.1	0.02	56.8	0.003	<20	0.38	0.003	0.03	<0.1	0.5	0.26	<0.02	22	1.3	0.07	2.3
3198450	Soil	19.2	16.3	0.06	165.6	0.004	<20	0.48	0.001	0.04	<0.1	5.2	1.06	0.02	537	4.7	0.10	0.9
3198451	Soil	11.1	11.6	0.08	159.7	0.003	<20	0.37	<0.001	0.04	<0.1	3.0	0.65	<0.02	188	3.9	0.15	1.0
3198452	Soil	3.9	5.2	0.03	78.7	0.006	<20	0.41	0.020	0.03	<0.1	0.8	0.27	0.02	107	1.0	0.10	2.0
3198453	Soil	2.4	1.2	0.03	28.4	0.016	<20	0.56	0.032	0.02	<0.1	0.7	0.05	0.03	14	<0.1	<0.02	1.2
3198454	Soil	2.7	4.0	0.02	97.2	0.011	<20	0.70	0.008	0.02	<0.1	0.6	0.11	0.12	77	1.7	0.03	1.2
3198455	Soil	8.3	15.6	0.29	276.1	0.005	<20	1.08	0.009	0.06	<0.1	1.6	0.12	0.08	96	1.3	0.07	2.4
3198456	Soil	7.6	11.0	0.22	241.1	0.005	<20	0.79	0.015	0.07	<0.1	1.3	0.12	0.06	95	1.3	0.04	1.9
3198457	Soil	10.9	17.1	0.28	359.0	0.004	<20	1.07	0.010	0.10	<0.1	2.1	0.16	0.06	144	1.8	0.07	2.7
3198458	Soil	18.1	20.2	0.34	166.6	0.004	<20	0.95	0.001	0.08	<0.1	1.8	0.16	0.02	83	2.3	0.14	2.4
3198459	Soil	10.7	13.3	0.08	139.3	0.005	<20	0.71	0.011	0.08	0.1	0.7	0.33	0.05	65	1.5	0.10	2.8
3198460	Soil	13.5	16.0	0.15	199.9	0.006	<20	0.97	0.007	0.13	0.1	1.6	0.36	0.06	126	2.3	0.13	2.4
3198461	Soil	16.7	8.5	0.05	74.6	0.010	<20	0.71	0.006	0.04	<0.1	0.8	0.22	<0.02	10	0.3	0.03	4.7
3198462	Soil	13.4	16.7	0.18	97.6	0.019	<20	0.99	0.007	0.05	0.1	1.3	0.24	0.03	32	1.1	0.05	5.3



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		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
3198463	Soil	0.40	2.14	4.67	5.0	310	1.0	0.3	6	0.22	1.0	0.2	<0.2	<0.1	5.0	0.03	0.14	0.03	4	0.02	0.037
3198464	Soil	4.26	13.18	25.79	55.1	525	11.1	1.3	30	1.17	11.6	0.9	1.2	<0.1	9.2	0.13	1.03	0.14	34	0.03	0.113
3198465	Soil	4.61	10.82	19.68	53.9	262	9.8	1.3	30	0.91	13.5	0.7	0.7	<0.1	7.8	0.15	1.17	0.12	31	0.02	0.081
3198466	Soil	4.54	13.47	17.23	54.4	341	10.7	1.5	36	1.17	21.0	0.9	0.5	<0.1	8.4	0.12	1.05	0.19	32	0.02	0.065
3198467	Soil	7.91	27.87	29.50	131.4	258	24.3	3.6	113	2.35	43.8	1.5	1.2	0.2	12.7	0.34	2.05	0.31	55	0.06	0.105
3198468	Soil	2.88	8.20	18.61	30.3	446	5.8	1.0	39	1.08	7.9	1.1	<0.2	0.6	7.7	0.05	0.74	0.19	24	0.03	0.095
3198469	Soil	0.28	4.45	1.69	3.4	273	1.1	0.3	8	0.16	0.6	0.2	0.6	<0.1	7.3	0.02	0.10	0.05	4	0.05	0.042
3198470	Soil	5.81	25.63	23.39	91.5	413	19.4	2.3	50	1.77	16.4	1.5	0.8	0.8	12.1	0.26	1.39	0.20	38	0.04	0.102
3198471	Soil	2.99	14.52	31.11	61.5	1032	11.6	1.6	42	1.53	13.2	1.8	1.7	0.6	13.9	0.16	0.82	0.24	33	0.09	0.171
3198472	Soil	5.46	19.53	32.46	126.0	580	24.0	2.4	51	1.64	13.3	1.2	1.6	0.5	11.4	0.32	1.17	0.19	38	0.08	0.126
3198473	Soil	10.09	45.05	51.36	319.6	415	58.7	9.5	237	3.33	28.6	2.9	<0.2	5.3	23.1	0.84	3.58	0.25	57	0.25	0.226
3198474	Soil	9.97	35.48	51.01	321.4	547	56.8	7.8	173	3.02	28.2	2.2	1.1	3.9	29.1	1.98	3.71	0.24	49	0.30	0.246
3198475	Soil	36.07	110.21	23.20	874.5	2288	184.5	16.9	344	4.74	30.5	8.3	3.6	4.8	111.3	7.48	12.79	0.25	118	0.59	0.301
3198476	Soil	37.92	69.80	32.80	816.7	1025	159.7	16.6	477	4.70	28.1	6.3	2.6	0.9	87.8	4.69	9.72	0.22	94	0.37	0.274
3198477	Soil	21.78	31.26	13.21	419.5	294	89.6	8.4	148	2.18	13.4	1.7	1.8	0.2	27.9	1.82	5.08	0.12	40	0.19	0.130
3198478	Soil	34.73	44.71	25.97	681.1	751	139.9	13.0	241	3.23	22.2	2.2	1.2	0.5	29.5	2.14	6.94	0.18	71	0.19	0.159
3198479	Soil	64.72	63.24	257.43	1246.7	990	170.4	9.6	745	4.64	35.7	2.8	4.0	1.1	8.8	4.72	6.68	0.27	158	0.03	0.098
3198480	Rock Pulp	12.42	154.77	274.58	207.9	109	79.2	46.4	281	1.51	8.9	0.5	35.4	3.3	34.1	0.57	0.17	0.17	22	0.51	0.052
3198481	Soil	62.31	72.77	312.07	891.9	1594	140.3	7.2	248	3.54	43.6	3.2	8.7	2.1	22.7	2.78	7.71	0.27	120	0.07	0.104
3198482	Soil	60.66	55.86	313.05	964.6	1168	156.4	10.7	302	3.60	37.1	3.0	3.7	1.0	29.0	3.04	7.88	0.26	126	0.13	0.116
3198483	Soil	43.99	59.91	291.90	1395.6	2369	241.1	15.1	2922	3.46	47.3	10.3	10.3	2.6	27.3	8.30	6.09	0.28	48	0.24	0.106
3198484	Soil	21.18	30.81	82.08	677.1	844	179.9	13.5	3234	2.14	22.1	16.6	3.7	0.5	35.3	2.62	2.58	0.15	26	0.55	0.105
3198485	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
3198486	Soil	20.99	44.33	43.06	34.8	914	10.6	1.1	29	2.22	20.7	1.8	2.4	3.3	19.7	0.07	1.78	0.15	37	<0.01	0.069
3198487	Soil	6.43	45.96	48.97	251.1	814	40.0	6.2	375	4.01	31.0	4.2	7.6	2.0	41.0	1.95	2.36	0.25	35	0.72	0.121
3198488	Soil	7.13	43.64	66.25	255.5	752	44.2	6.8	145	2.55	26.0	6.9	5.8	2.2	37.7	1.68	2.91	0.26	33	0.58	0.111
3198489	Soil	4.12	19.79	34.56	148.6	555	18.1	3.1	273	1.53	15.1	2.7	4.3	0.8	31.8	0.50	1.26	0.20	25	0.50	0.076
3198490	Soil	20.49	65.34	83.27	85.0	528	36.0	1.0	29	3.22	19.0	4.2	2.0	5.7	112.9	0.19	3.16	0.28	63	0.02	0.204
3198491	Soil	11.69	53.58	138.14	23.3	9961	3.2	0.2	10	6.24	50.4	5.7	7.6	9.4	127.9	0.97	9.25	0.89	113	0.02	0.232
3198492	Soil	121.58	51.26	116.25	10.6	6122	1.7	0.2	10	6.46	102.5	6.3	4.8	10.4	37.4	0.21	24.75	1.00	243	<0.01	0.233



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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

**Project:** MacMillan Pass

**Report Date:** August 15, 2018

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# CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm
		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
3198463	Soil	1.4	1.4	0.01	23.4	0.005	<20	0.38	0.021	0.02	<0.1	0.2	0.03	<0.02	21	<0.1	<0.02
3198464	Soil	8.5	10.7	0.06	125.1	0.003	<20	0.71	0.010	0.08	0.1	0.7	0.22	0.02	79	0.7	<0.02
3198465	Soil	7.9	7.9	0.03	90.1	0.003	<20	0.39	0.009	0.07	<0.1	0.7	0.20	0.02	37	0.6	0.08
3198466	Soil	10.4	10.2	0.06	78.8	0.006	<20	0.62	0.007	0.05	<0.1	0.7	0.20	0.02	33	0.4	0.08
3198467	Soil	15.8	16.8	0.13	134.2	0.007	<20	0.93	0.002	0.07	0.1	1.1	0.29	0.02	82	1.5	0.06
3198468	Soil	13.6	12.3	0.12	69.7	0.003	<20	0.66	0.002	0.05	<0.1	0.6	0.21	<0.02	96	0.7	0.04
3198469	Soil	1.8	1.2	0.02	14.6	0.012	<20	0.42	0.023	0.02	<0.1	0.3	0.02	<0.02	9	0.2	<0.02
3198470	Soil	10.0	14.7	0.10	129.8	0.006	<20	1.02	0.011	0.09	0.1	1.1	0.24	0.02	96	1.1	0.07
3198471	Soil	16.9	18.4	0.19	147.6	0.005	<20	0.92	0.006	0.08	<0.1	1.0	0.28	<0.02	207	1.4	0.04
3198472	Soil	13.8	14.6	0.13	144.9	0.004	<20	0.77	0.006	0.10	<0.1	0.9	0.26	0.02	108	0.8	0.05
3198473	Soil	25.4	22.0	0.24	152.4	0.005	<20	0.97	<0.001	0.10	<0.1	2.6	0.30	<0.02	125	2.0	0.09
3198474	Soil	25.0	20.6	0.26	197.1	0.005	<20	0.86	0.001	0.11	<0.1	2.0	0.24	<0.02	114	1.8	0.07
3198475	Soil	9.8	15.3	0.05	210.1	0.004	<20	0.43	<0.001	0.09	<0.1	3.2	0.70	0.02	417	6.5	0.17
3198476	Soil	10.0	13.8	0.03	168.1	0.003	<20	0.42	<0.001	0.07	<0.1	1.5	0.59	0.02	196	5.9	0.17
3198477	Soil	5.6	6.6	0.03	74.1	0.002	<20	0.36	0.009	0.03	<0.1	0.6	0.34	0.02	68	3.7	0.07
3198478	Soil	7.4	9.9	0.02	93.2	0.002	<20	0.29	0.002	0.04	0.1	0.9	0.47	<0.02	98	4.5	0.15
3198479	Soil	13.0	16.2	0.04	113.8	0.004	<20	0.52	0.002	0.05	<0.1	1.4	0.42	0.03	249	10.7	0.12
3198480	Rock Pulp	26.2	32.7	0.45	61.4	0.076	<20	0.75	0.080	0.11	<0.1	3.2	0.08	0.04	9	<0.1	0.03
3198481	Soil	19.5	12.2	0.02	106.4	0.003	<20	0.33	<0.001	0.05	<0.1	1.6	0.68	0.04	270	13.9	0.18
3198482	Soil	14.3	12.3	0.03	126.5	0.003	<20	0.42	0.003	0.06	0.1	1.2	0.95	0.03	208	10.6	0.21
3198483	Soil	14.8	9.9	0.04	290.3	0.006	<20	0.51	0.005	0.05	<0.1	2.8	1.03	0.04	389	4.6	0.20
3198484	Soil	7.0	6.7	0.03	315.2	0.008	<20	0.58	0.020	0.04	<0.1	0.9	0.70	0.06	184	2.6	0.05
3198485	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
3198486	Soil	11.4	12.6	0.03	2849.0	0.007	<20	0.44	<0.001	0.07	<0.1	2.3	0.19	0.12	139	9.4	0.14
3198487	Soil	16.2	13.4	0.15	348.2	0.007	<20	0.74	0.005	0.08	0.3	2.4	0.29	0.05	133	2.4	0.07
3198488	Soil	15.9	14.0	0.18	302.4	0.006	<20	0.74	0.005	0.07	0.2	2.1	0.27	0.11	151	2.4	0.08
3198489	Soil	10.5	8.6	0.08	251.3	0.006	<20	0.63	0.017	0.06	<0.1	1.2	0.23	0.04	95	1.2	0.08
3198490	Soil	12.3	24.6	0.02	4324.1	0.004	<20	1.10	<0.001	0.08	<0.1	3.9	0.18	0.06	303	12.4	0.20
3198491	Soil	28.4	44.8	0.02	48.6	0.020	<20	0.35	0.012	0.86	0.1	3.9	2.85	1.94	222	69.7	0.26
3198492	Soil	9.4	57.1	0.02	46.2	0.059	<20	0.34	0.015	0.92	0.2	8.2	7.23	2.04	541	59.6	0.86



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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

Project:

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# CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		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
3198493	Soil	68.95	38.11	88.55	72.4	3766	5.3	0.7	40	3.11	22.2	16.3	3.0	9.5	159.5	0.37	36.50	0.70	237	0.05	0.619
3198494	Soil	16.01	12.10	37.40	2.8	694	1.5	<0.1	3	0.37	5.1	1.3	<0.2	3.9	5.3	0.01	12.92	0.19	38	<0.01	0.014
3198495	Soil	6.44	49.88	130.73	82.1	2860	8.4	0.4	8	4.23	17.5	11.7	2.6	6.0	223.6	0.06	10.08	0.31	115	0.03	0.492
3198496	Soil	14.00	47.88	78.82	47.3	1537	6.0	1.2	56	2.74	42.4	10.1	1.7	6.0	78.3	0.11	8.91	0.27	139	0.04	0.190
3198497	Soil	24.56	68.83	43.40	192.5	1477	54.7	5.7	97	4.86	38.6	14.1	3.3	8.2	397.4	0.89	28.48	0.35	971	0.06	1.089
3198498	Soil	26.51	55.56	48.87	126.2	1618	14.6	1.5	31	3.42	26.4	5.4	2.3	0.2	65.1	0.65	11.48	0.39	136	0.02	0.261
3198499	Soil	31.51	47.51	90.80	86.9	2763	13.7	1.8	55	3.95	46.4	5.6	3.2	0.4	72.1	0.31	11.88	0.59	186	0.04	0.335
3198500	Soil	32.64	44.34	102.19	73.4	2821	12.1	1.6	58	3.84	48.1	5.8	1.7	2.6	67.6	0.30	13.40	0.56	200	0.05	0.272
3198681	Soil	29.42	18.30	69.49	25.1	710	5.1	0.7	17	1.40	27.6	2.8	2.0	0.4	19.5	0.09	9.45	0.33	139	0.01	0.078
3198682	Soil	25.13	71.13	76.20	214.2	388	43.1	3.4	67	7.93	83.9	13.7	2.0	4.7	67.9	0.49	17.43	0.39	242	0.01	0.322
3198683	Soil	39.29	20.75	68.10	8.4	1673	3.9	0.2	6	1.18	17.5	2.1	<0.2	5.1	9.4	0.05	15.49	0.30	89	<0.01	0.032
3198684	Soil	26.55	23.40	72.34	13.3	1749	3.0	<0.1	3	1.00	19.7	2.3	<0.2	4.5	12.8	0.08	22.08	0.25	83	<0.01	0.032
3198685	Soil	17.08	15.47	38.19	13.5	670	2.9	0.6	24	0.62	10.2	2.8	1.1	0.2	16.8	0.08	6.73	0.28	72	0.01	0.060
3198686	Soil	40.19	13.41	239.54	15.1	3630	4.0	1.0	63	1.71	32.7	2.9	3.8	3.1	13.0	0.09	14.55	0.84	140	0.04	0.054
3198687	Soil	349.29	24.20	157.21	18.9	4968	3.6	0.7	29	2.21	136.3	2.5	1.1	1.4	14.3	0.46	78.93	0.49	112	0.02	0.064
3198688	Soil	20.41	13.94	80.83	13.7	551	3.1	0.7	24	0.86	13.1	2.5	1.6	0.3	26.8	0.07	7.92	0.27	64	0.03	0.063
3198689	Soil	44.76	15.24	51.88	24.8	1893	4.8	1.0	27	1.28	32.2	2.2	1.7	1.9	18.0	0.05	11.47	0.30	176	0.01	0.046
3198690	Soil	114.88	21.72	182.17	20.6	3897	3.7	0.8	34	2.56	76.5	6.7	4.1	6.7	55.3	<0.01	39.53	0.49	321	0.02	0.152
3198691	Soil	104.69	32.44	175.59	22.1	4551	4.3	0.5	21	2.58	60.4	11.1	0.4	4.6	64.7	0.03	34.97	0.48	315	0.02	0.161
3198692	Soil	86.14	78.13	120.73	38.4	4035	10.4	0.9	23	4.26	72.4	13.8	<0.2	7.5	53.8	0.08	29.52	0.33	465	0.02	0.195
3198693	Soil	69.10	58.81	110.07	42.3	3688	12.7	1.4	34	3.87	54.4	7.5	0.4	6.4	28.2	0.14	19.77	0.35	354	0.04	0.155
3198694	Soil	67.80	20.58	112.57	20.5	2640	10.7	0.7	18	2.44	53.9	4.6	<0.2	4.1	27.6	<0.01	20.52	0.34	200	0.02	0.088
3198695	Soil	53.24	23.20	134.34	8.6	3285	2.3	0.2	9	2.28	45.0	8.5	<0.2	11.5	41.5	<0.01	31.02	0.57	169	<0.01	0.058
3198696	Soil	83.15	26.03	189.60	33.3	3181	5.7	0.8	5	1.36	54.7	14.3	<0.2	11.2	78.5	<0.01	31.16	0.61	149	<0.01	0.096
3198697	Soil	82.13	9.76	194.43	31.2	3511	2.6	0.1	7	1.23	23.7	99.6	<0.2	44.0	514.5	<0.01	38.52	1.16	220	0.09	0.301
3198698	Soil	111.86	16.37	76.56	11.5	3342	4.6	0.7	24	1.73	93.7	20.6	2.7	14.1	146.3	0.01	29.03	0.49	153	0.02	0.104
3198699	Soil	19.49	9.68	14.55	4.8	1718	1.9	0.9	36	0.49	19.5	4.3	0.7	1.1	18.7	<0.01	9.75	0.11	37	0.07	0.040
3198700	Rock Pulp	0.73	25.33	2.19	21.6	20	18.5	6.5	258	1.49	0.6	0.5	0.4	3.2	30.1	<0.01	0.06	0.02	24	0.66	0.057
3198701	Soil	94.20	8.21	71.17	4.9	2774	3.1	0.2	4	1.02	56.0	8.4	<0.2	2.8	35.2	<0.01	38.65	0.48	117	<0.01	0.040
3198702	Soil	70.29	8.34	304.04	165.2	2210	5.4	<0.1	19	1.48	63.2	25.1	<0.2	8.7	618.1	<0.01	17.74	5.33	80	0.11	0.514



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm
		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
3198493	Soil	16.7	38.6	0.06	257.9	0.016	<20	1.21	0.005	0.30	0.1	4.3	2.89	0.50	751	64.3	0.41
3198494	Soil	7.6	3.0	0.01	1148.4	0.006	<20	0.13	<0.001	0.07	<0.1	0.9	0.52	0.05	235	9.9	0.13
3198495	Soil	28.9	40.8	0.02	8596.1	0.007	<20	0.93	0.001	0.17	<0.1	4.6	0.70	0.21	2307	28.3	0.20
3198496	Soil	16.4	20.3	0.05	2442.1	0.012	<20	0.60	0.009	0.15	<0.1	3.0	0.62	0.21	298	13.6	0.08
3198497	Soil	26.1	59.0	0.04	>10000	0.083	<20	3.09	<0.001	0.19	0.2	8.3	0.88	0.16	1361	30.9	0.28
3198498	Soil	18.2	26.1	0.03	404.4	0.006	<20	0.76	0.005	0.21	0.2	0.8	0.89	0.40	225	30.2	0.22
3198499	Soil	16.3	36.2	0.07	181.6	0.010	<20	0.77	0.005	0.35	0.2	1.4	1.74	0.71	361	23.9	0.30
3198500	Soil	15.7	36.3	0.08	145.3	0.022	<20	0.68	0.006	0.43	0.2	3.2	2.14	0.84	238	26.1	0.35
3198681	Soil	14.6	16.1	0.02	1000.5	0.012	<20	0.32	0.002	0.12	0.2	0.9	0.63	0.18	73	11.9	0.19
3198682	Soil	15.0	37.0	0.03	2205.0	0.011	<20	0.82	0.001	0.10	0.2	3.3	0.40	0.10	68	13.1	0.22
3198683	Soil	5.6	11.2	0.02	1464.7	0.014	<20	0.20	<0.001	0.13	0.2	1.5	0.70	0.24	219	20.8	0.21
3198684	Soil	5.8	7.2	<0.01	1671.9	0.009	<20	0.13	0.002	0.13	0.3	1.0	0.80	0.21	535	20.7	0.29
3198685	Soil	9.4	9.3	0.02	791.6	0.010	<20	0.37	0.006	0.07	0.2	0.6	0.51	0.09	99	6.0	0.11
3198686	Soil	14.8	12.5	0.06	403.7	0.033	<20	0.41	0.009	0.23	0.6	1.1	1.13	0.47	747	14.6	0.28
3198687	Soil	7.2	17.2	0.03	457.0	0.022	<20	0.34	0.008	0.14	1.0	0.9	0.95	0.19	507	38.5	0.92
3198688	Soil	10.1	8.5	0.03	636.7	0.013	<20	0.51	0.012	0.05	0.2	0.6	0.32	0.05	71	4.8	0.16
3198689	Soil	23.7	12.9	0.02	585.2	0.016	<20	0.43	0.005	0.05	0.4	0.7	0.47	0.05	74	7.7	0.25
3198690	Soil	17.0	34.8	0.05	787.0	0.028	<20	0.62	0.005	0.20	0.9	3.9	2.72	0.30	594	25.3	0.73
3198691	Soil	19.9	38.1	0.03	546.6	0.018	<20	0.50	0.006	0.21	0.9	3.6	1.86	0.32	748	40.0	0.60
3198692	Soil	14.6	53.5	0.03	382.7	0.015	<20	0.63	0.007	0.30	0.5	3.6	1.42	0.48	520	56.0	0.52
3198693	Soil	11.5	44.3	0.06	342.8	0.016	<20	0.57	0.007	0.29	0.5	3.6	1.30	0.49	342	45.6	0.46
3198694	Soil	15.4	27.5	0.04	1289.7	0.017	<20	0.26	0.004	0.15	0.5	1.3	0.86	0.23	490	30.6	0.42
3198695	Soil	19.1	14.0	0.02	1283.9	0.017	<20	0.32	0.006	0.17	0.1	2.0	0.94	0.21	529	46.0	0.35
3198696	Soil	18.9	24.2	0.02	2773.2	0.011	<20	0.50	0.002	0.12	0.5	2.1	0.96	0.11	2393	38.7	0.67
3198697	Soil	145.3	31.8	0.03	2510.8	0.007	<20	0.74	0.003	0.22	0.3	5.3	1.24	0.22	1342	27.9	0.54
3198698	Soil	37.7	41.2	0.03	1564.3	0.006	<20	0.43	0.005	0.19	<0.1	4.2	0.79	0.22	505	32.8	0.57
3198699	Soil	7.4	7.3	0.02	196.9	0.014	<20	0.40	0.023	0.05	<0.1	0.8	0.25	0.04	117	8.0	0.10
3198700	Rock Pulp	17.5	30.2	0.48	58.4	0.076	<20	0.81	0.077	0.11	<0.1	2.8	0.08	<0.02	26	<0.1	<0.02
3198701	Soil	36.1	14.7	0.01	367.3	0.011	<20	0.21	0.003	0.11	<0.1	1.6	0.88	0.12	362	31.4	0.46
3198702	Soil	15.4	18.8	0.02	746.4	0.007	<20	1.05	0.003	0.24	0.7	4.7	1.90	0.27	531	32.5	0.39



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

Project:

MacMillan Pass

Report Date:

August 15, 2018

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	Method	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
	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	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	1	0.01	0.001
3198703	Soil	48.40	11.58	170.52	35.0	922	4.2	0.6	12	0.70	28.4	10.6	1.4	0.9	134.4	<0.01	13.99	1.16	121	0.03	0.107
3198704	Soil	69.84	15.95	98.81	25.7	2159	10.1	0.9	14	1.24	36.1	5.3	0.8	0.7	33.3	0.02	10.31	0.40	102	0.02	0.064
3198705	Soil	51.23	13.69	138.38	20.1	1443	4.7	0.9	41	1.24	15.5	7.0	<0.2	2.9	82.2	<0.01	16.27	0.36	41	0.06	0.109
3198706	Soil	65.80	13.70	120.15	26.7	2197	5.6	0.7	16	1.82	54.3	4.2	1.6	5.5	50.1	<0.01	14.06	0.36	87	0.01	0.069
3198707	Soil	38.12	19.41	101.32	25.2	1671	22.1	1.4	35	1.26	22.8	4.9	0.3	<0.1	28.8	0.06	10.06	0.31	75	0.05	0.091
3198708	Soil	46.16	19.01	121.23	25.3	1484	28.3	1.6	35	1.22	25.5	3.0	<0.2	0.1	22.9	<0.01	10.87	0.30	67	0.03	0.082
3198709	Soil	34.28	14.22	44.66	29.4	1299	7.5	1.1	78	1.09	32.4	3.3	<0.2	0.4	31.3	<0.01	9.21	0.17	57	0.05	0.071
3198710	Soil	46.41	26.58	55.50	64.1	1912	13.4	2.7	144	1.79	65.2	4.5	0.7	0.8	32.2	0.08	12.07	0.28	88	0.06	0.109
3199486	Soil	71.70	287.80	56.63	828.0	1477	263.9	40.2	1385	5.52	38.2	19.5	0.4	1.9	13.3	1.18	7.95	0.18	210	0.06	0.244
3199487	Soil	72.48	219.17	74.00	693.1	688	240.7	4.5	178	6.33	39.7	7.2	0.4	4.0	8.3	0.32	10.85	0.19	217	0.01	0.177
3199488	Soil	28.64	46.04	24.40	107.5	279	30.7	3.5	206	3.09	22.8	1.3	<0.2	0.4	12.3	0.16	2.56	0.25	180	0.01	0.076
3199489	Soil	32.20	80.25	64.56	348.7	651	142.4	7.0	307	3.99	32.6	4.4	2.6	0.4	18.4	0.51	4.77	0.26	153	0.03	0.161
3199490	Soil	16.71	36.84	26.06	99.4	682	26.8	4.7	174	1.83	16.8	1.5	<0.2	0.6	13.7	0.09	2.23	0.23	65	0.01	0.062
3199491	Soil	40.57	22.65	45.42	21.7	994	5.3	0.7	21	2.05	25.5	1.1	0.3	0.2	33.6	0.04	6.46	0.27	74	0.01	0.107
3199492	Soil	9.97	50.69	53.48	76.0	607	21.6	2.5	70	3.27	31.2	2.2	3.4	0.3	32.7	0.08	2.53	0.26	56	0.02	0.142
3199493	Soil	11.41	42.51	46.88	98.0	535	23.3	2.6	49	2.04	23.5	1.7	0.8	0.2	25.1	0.07	1.89	0.26	50	0.02	0.106
3199494	Soil	30.57	56.38	70.55	335.5	1035	88.7	8.0	155	2.84	37.3	2.0	1.1	1.3	25.3	0.52	4.04	0.35	68	0.02	0.091
3199495	Soil	15.31	31.75	64.35	226.8	615	51.8	3.6	82	1.49	21.3	1.5	6.5	1.6	18.1	0.80	1.69	0.18	51	0.18	0.045
3199496	Soil	15.86	54.30	53.23	1069.5	1395	109.8	3.9	546	3.81	39.3	3.6	11.8	2.6	31.2	3.06	3.71	0.29	63	0.25	0.103
3199497	Soil	7.43	36.14	64.08	493.3	1187	49.9	3.7	1094	2.30	24.2	5.2	7.4	1.3	43.8	8.18	1.56	0.28	58	0.58	0.128
3199498	Soil	0.90	24.57	10.68	81.0	340	16.4	0.9	52	0.52	4.5	1.8	3.6	0.1	29.7	0.80	0.68	0.07	11	0.56	0.078
3199499	Soil	4.94	31.87	45.61	476.2	1124	84.3	4.1	1186	2.18	22.8	3.3	6.7	1.3	34.2	4.91	1.74	0.26	38	0.44	0.127
3199500	Soil	5.27	36.26	48.72	481.5	1285	60.4	4.5	581	2.40	27.4	3.7	6.4	1.3	37.8	3.10	2.04	0.28	43	0.46	0.139
3199501	Soil	1.80	33.58	22.39	606.0	745	51.2	2.5	351	1.06	9.7	5.1	3.4	0.4	38.9	1.22	0.87	0.14	20	0.73	0.120
3199502	Soil	11.66	60.45	96.09	1577.0	1409	405.4	11.6	3817	2.76	39.4	4.8	11.8	2.0	34.6	3.40	3.31	0.26	46	0.86	0.109
3199503	Soil	21.14	52.64	117.34	1456.2	1373	147.3	7.9	1277	4.79	39.1	3.5	4.9	2.4	33.7	3.93	4.49	0.25	76	0.69	0.127
3199504	Soil	24.35	85.78	>10000	2150.2	20865	146.3	8.4	1327	5.96	44.3	7.4	7.0	3.2	36.7	9.03	21.35	0.28	80	1.10	0.142
3199505	Soil	4.63	33.16	52.82	661.4	578	80.9	2.7	146	1.55	14.4	7.2	2.3	1.0	29.4	1.44	1.35	0.13	28	0.88	0.082
3199506	Soil	6.81	50.50	102.57	771.4	968	128.0	6.9	258	2.10	32.8	12.6	1.9	2.1	63.9	2.93	2.47	0.24	54	4.99	0.080
3199507	Soil	2.35	20.27	37.18	360.4	511	44.6	2.1	155	1.28	7.8	1.9	2.6	1.1	99.7	0.84	1.13	0.13	20	8.95	0.073





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

**Project:** MacMillan Pass

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	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
		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
3198703	Soil	37.7	16.7	0.01	1109.8	0.012	<20	0.48	0.003	0.05	0.2	0.6	0.56	0.03	71	5.8	0.41	5.4
3198704	Soil	22.4	19.6	0.02	872.3	0.010	<20	0.38	0.005	0.07	0.4	0.7	0.55	0.08	304	8.5	0.29	3.4
3198705	Soil	15.2	12.5	0.03	1798.3	0.020	<20	0.43	0.025	0.11	0.4	1.8	0.67	0.15	343	15.5	0.25	4.1
3198706	Soil	18.6	15.4	0.03	936.8	0.014	<20	0.30	0.005	0.15	0.3	1.3	0.96	0.23	359	18.2	0.32	3.2
3198707	Soil	14.5	35.2	0.04	774.7	0.008	<20	0.48	0.009	0.10	0.3	0.8	0.48	0.16	158	9.6	0.16	2.9
3198708	Soil	10.3	47.1	0.05	323.8	0.011	<20	0.38	0.012	0.09	0.4	0.6	0.46	0.14	184	10.2	0.24	2.7
3198709	Soil	8.5	14.3	0.03	243.5	0.016	<20	0.55	0.019	0.07	0.3	0.7	0.44	0.09	145	10.7	0.20	3.0
3198710	Soil	9.8	16.5	0.06	1612.6	0.015	<20	0.85	0.018	0.09	1.0	1.3	1.37	0.15	298	12.1	0.26	3.5
3199486	Soil	10.6	31.8	0.22	99.0	0.005	<20	1.79	0.005	0.07	0.2	3.5	1.57	0.12	501	6.4	0.15	1.7
3199487	Soil	11.3	25.4	0.27	76.3	0.004	<20	0.61	0.002	0.06	0.2	2.8	1.04	0.06	638	6.9	0.16	1.3
3199488	Soil	22.6	13.4	0.04	79.6	0.009	<20	0.32	0.004	0.05	0.1	0.6	0.32	<0.02	39	2.3	0.11	3.0
3199489	Soil	14.7	22.8	0.14	126.9	0.004	<20	0.75	0.004	0.07	0.1	0.9	0.92	0.05	154	3.3	0.15	2.7
3199490	Soil	24.5	12.6	0.02	90.6	0.014	<20	0.33	0.006	0.05	<0.1	0.6	0.23	0.03	42	2.5	0.07	2.9
3199491	Soil	19.0	12.0	0.01	373.2	0.005	<20	0.32	0.004	0.14	<0.1	0.5	0.75	0.25	42	9.4	0.16	3.0
3199492	Soil	18.5	19.4	0.04	182.8	0.004	<20	0.71	0.004	0.09	<0.1	0.6	0.25	0.06	42	3.7	0.11	2.7
3199493	Soil	20.4	11.4	0.02	140.9	0.003	<20	0.43	0.003	0.07	<0.1	0.5	0.24	0.04	52	2.7	0.12	2.1
3199494	Soil	19.4	12.2	0.02	181.6	0.003	<20	0.55	0.003	0.10	<0.1	1.1	0.42	0.09	40	5.5	0.12	1.7
3199495	Soil	18.8	10.2	0.04	189.2	0.001	<20	0.45	0.002	0.07	<0.1	1.0	0.28	<0.02	76	2.2	0.09	1.3
3199496	Soil	16.9	13.0	0.06	285.4	0.003	<20	0.59	0.003	0.08	<0.1	3.0	0.31	0.02	216	2.7	0.10	1.4
3199497	Soil	13.1	13.0	0.11	347.7	0.003	<20	0.68	0.004	0.09	<0.1	1.8	0.27	0.07	233	2.0	0.09	1.9
3199498	Soil	3.6	3.4	0.08	91.1	0.010	<20	0.58	0.038	0.04	<0.1	0.6	0.06	0.05	54	1.7	<0.02	1.0
3199499	Soil	13.1	12.1	0.08	270.4	0.005	<20	0.68	0.008	0.10	<0.1	1.7	0.23	0.05	116	5.4	0.05	1.8
3199500	Soil	13.8	13.9	0.09	271.0	0.005	<20	0.71	0.008	0.10	<0.1	1.8	0.24	0.06	131	8.4	0.06	1.9
3199501	Soil	7.4	6.9	0.10	186.3	0.005	<20	0.74	0.022	0.06	<0.1	0.8	0.17	0.08	114	2.6	<0.02	1.5
3199502	Soil	15.5	13.0	0.10	444.6	0.006	<20	0.79	0.009	0.12	<0.1	2.6	0.47	0.05	230	3.1	0.10	2.1
3199503	Soil	19.8	16.5	0.23	219.1	0.007	<20	0.76	0.007	0.09	<0.1	2.4	0.36	0.04	422	3.4	0.08	2.2
3199504	Soil	15.0	18.7	0.30	238.7	0.007	<20	0.79	0.005	0.10	<0.1	2.5	0.29	0.16	6894	5.7	0.10	1.9
3199505	Soil	8.0	8.2	0.13	228.6	0.010	<20	0.87	0.025	0.07	<0.1	1.1	0.18	0.08	198	4.7	0.04	1.8
3199506	Soil	10.0	14.0	0.20	395.5	0.005	<20	0.75	0.005	0.11	<0.1	2.3	0.24	0.20	250	7.3	0.10	1.9
3199507	Soil	6.4	8.6	0.23	319.6	0.006	<20	0.71	0.008	0.08	<0.1	1.3	0.17	0.07	154	1.4	0.05	1.4



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	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		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
3199508	Soil	2.54	23.06	38.96	332.5	555	45.3	2.6	165	1.39	10.3	3.6	2.7	0.6	58.0	0.83	1.33	0.15	25	1.71	0.107
3199509	Soil	3.41	28.28	54.50	326.9	690	52.0	4.0	229	2.11	18.9	4.2	4.7	1.7	35.9	0.38	1.45	0.23	39	0.67	0.106
3199510	Soil	4.10	44.16	58.11	235.7	816	61.2	5.9	368	2.51	25.4	6.5	5.2	1.4	45.4	0.64	1.68	0.25	43	0.86	0.124
3199511	Soil	3.54	26.36	34.23	163.5	586	51.6	7.3	347	2.41	19.4	4.3	2.2	1.9	41.7	1.09	1.71	0.22	28	0.83	0.123
3199512	Soil	1.92	26.23	24.81	142.6	414	38.3	4.0	167	1.71	10.5	6.3	2.5	1.1	47.8	0.53	1.23	0.19	22	0.95	0.113
3199513	Soil	3.76	33.06	37.27	210.0	617	60.1	5.7	424	2.52	16.3	3.6	4.2	2.8	33.5	1.11	1.31	0.27	37	0.38	0.122
3199514	Soil	5.58	43.03	44.39	216.9	926	76.1	11.3	1028	3.05	23.9	4.4	2.4	3.8	35.5	2.45	1.81	0.26	40	0.51	0.151
3199515	Soil	4.94	28.43	18.70	154.2	346	33.9	5.6	190	2.56	28.8	2.2	2.6	4.8	25.3	0.92	2.66	0.18	30	0.35	0.137
3199516	Soil	10.68	58.03	29.15	666.5	1783	149.9	21.6	443	4.00	46.2	2.8	1.4	2.7	40.0	7.93	4.93	0.26	48	0.75	0.183
3199517	Soil	7.25	21.29	29.08	112.6	217	23.6	3.1	102	2.30	34.5	1.7	1.3	1.4	16.6	0.25	2.27	0.20	41	0.15	0.144
3199518	Soil	6.14	26.26	38.63	123.8	113	25.5	2.7	79	2.01	21.5	1.8	1.7	0.8	19.3	0.26	1.85	0.17	51	0.21	0.179
3199519	Soil	6.31	23.78	27.91	129.4	149	25.9	3.6	107	2.62	39.3	1.6	2.0	1.1	13.4	0.24	1.98	0.24	47	0.09	0.126
3199520	Soil	7.87	26.58	36.00	164.9	154	32.3	4.3	146	4.48	40.7	1.5	1.1	3.5	14.1	0.38	2.44	0.28	57	0.08	0.178
3199521	Soil	6.90	48.43	33.48	243.5	153	50.1	8.9	216	2.90	34.8	2.3	1.7	5.0	20.6	0.57	2.49	0.23	50	0.22	0.181
3199522	Rock Pulp	0.63	23.52	2.11	20.3	26	16.9	5.7	263	1.44	0.6	0.5	0.4	2.9	33.3	0.03	0.06	0.02	22	0.64	0.051
3199523	Soil	5.14	53.71	20.69	106.8	253	40.6	12.9	308	3.50	28.4	1.7	1.2	1.3	15.3	0.11	1.22	0.30	34	0.03	0.081
3199524	Soil	13.28	25.22	34.38	95.3	499	28.1	6.5	158	5.40	39.9	0.9	0.6	2.1	12.7	0.08	2.96	0.38	48	<0.01	0.106
3199525	Soil	8.18	36.25	28.63	140.3	942	51.8	22.5	734	5.06	39.2	1.7	1.8	4.6	29.2	0.27	2.44	0.33	36	0.04	0.152
3199526	Soil	6.60	28.29	27.18	112.1	310	38.3	10.7	255	4.94	33.8	1.1	1.9	2.3	12.7	0.09	2.02	0.35	41	0.01	0.106
3199527	Soil	7.19	30.36	24.46	125.4	417	43.4	11.9	313	4.58	35.1	1.2	0.8	3.7	11.6	0.09	2.22	0.30	32	<0.01	0.100
3199528	Soil	7.38	15.12	24.19	66.2	401	13.6	2.3	84	4.15	41.7	1.4	1.8	1.4	16.5	0.08	3.33	0.32	45	<0.01	0.110
3199529	Soil	6.71	15.26	20.33	55.1	323	11.1	2.1	68	3.39	35.2	1.3	3.0	1.1	14.6	0.08	2.57	0.31	45	<0.01	0.103
3199530	Soil	13.69	50.63	30.75	170.1	413	37.6	5.4	78	7.15	65.1	5.1	1.7	8.5	13.6	0.61	4.12	0.35	75	<0.01	0.259
3199531	Soil	17.77	55.88	33.68	200.2	748	42.8	6.4	131	8.04	75.0	5.8	0.7	9.0	35.3	0.58	3.93	0.38	75	0.01	0.320
3199532	Soil	9.70	26.89	26.34	126.4	842	26.3	4.5	111	3.56	49.1	2.5	5.7	2.3	35.3	0.27	5.21	0.30	48	0.02	0.138
3199533	Soil	12.72	30.78	27.40	187.4	753	40.9	6.5	145	3.70	65.4	1.7	2.8	5.5	18.8	0.38	5.23	0.31	38	0.04	0.140
3199534	Soil	13.66	16.70	31.57	137.3	1206	32.7	5.3	123	3.37	49.9	1.3	2.0	7.2	28.5	0.27	6.00	0.31	31	0.07	0.126
3199535	Soil	11.07	50.49	35.33	258.1	2273	61.9	10.7	259	3.91	37.5	4.9	2.8	4.6	45.5	0.60	5.43	0.31	48	0.30	0.473
3199536	Soil	9.97	66.07	54.56	341.4	2981	92.3	13.1	308	4.09	24.7	5.2	3.3	3.3	52.0	0.95	5.66	0.38	45	0.41	0.525
3199537	Soil	5.99	23.92	20.51	110.5	545	23.4	3.6	93	3.04	30.9	1.5	1.5	1.7	18.4	0.27	2.86	0.23	28	0.04	0.108



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

**Project:** MacMillan Pass

**Report Date:** August 15, 2018

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	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm
		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
3199508	Soil	8.1	9.3	0.22	326.6	0.006	<20	0.78	0.014	0.09	<0.1	1.1	0.17	0.09	154	2.2	0.03
3199509	Soil	14.4	14.0	0.19	379.9	0.006	<20	0.95	0.008	0.13	<0.1	1.6	0.21	0.04	207	1.4	0.05
3199510	Soil	14.3	17.8	0.25	449.2	0.004	<20	0.96	0.004	0.15	<0.1	1.7	0.26	0.06	224	1.5	0.05
3199511	Soil	13.3	20.1	0.31	359.2	0.008	<20	1.12	0.008	0.09	<0.1	1.5	0.16	0.06	149	1.8	0.04
3199512	Soil	9.4	13.7	0.21	432.3	0.007	<20	1.06	0.012	0.08	<0.1	1.1	0.15	0.07	130	1.8	0.03
3199513	Soil	16.6	20.7	0.26	593.6	0.006	<20	1.28	0.008	0.13	<0.1	2.2	0.23	0.03	225	1.2	0.05
3199514	Soil	16.4	19.3	0.26	551.4	0.005	<20	1.13	0.006	0.13	<0.1	2.5	0.26	0.03	295	3.0	0.06
3199515	Soil	23.6	16.9	0.28	227.5	0.005	<20	0.82	0.002	0.08	<0.1	1.8	0.15	<0.02	89	2.3	0.05
3199516	Soil	25.0	22.2	0.34	207.5	0.005	<20	1.07	0.002	0.10	0.1	2.4	0.46	0.03	334	3.1	0.08
3199517	Soil	25.1	16.7	0.18	176.7	0.005	<20	0.77	0.001	0.10	<0.1	1.2	0.27	<0.02	83	1.5	0.07
3199518	Soil	24.5	17.9	0.13	224.8	0.005	<20	0.74	0.001	0.14	0.1	1.1	0.33	<0.02	107	1.2	0.04
3199519	Soil	21.7	19.5	0.23	164.7	0.005	<20	0.96	0.003	0.10	<0.1	1.2	0.24	<0.02	75	1.4	0.06
3199520	Soil	19.5	24.3	0.19	135.3	0.007	<20	1.18	0.004	0.09	0.1	1.8	0.24	<0.02	43	2.0	0.10
3199521	Soil	27.1	22.9	0.25	192.5	0.004	<20	1.20	0.002	0.14	<0.1	2.0	0.26	<0.02	156	1.8	0.05
3199522	Rock Pulp	16.5	27.4	0.45	54.2	0.079	<20	0.77	0.081	0.12	<0.1	3.0	0.07	<0.02	9	<0.1	<0.02
3199523	Soil	13.3	21.8	0.21	89.6	0.009	<20	1.71	0.009	0.07	0.1	1.6	0.34	0.03	78	1.4	0.05
3199524	Soil	17.6	22.9	0.16	113.2	0.007	<20	1.03	0.002	0.09	<0.1	1.3	0.22	0.05	42	3.8	0.14
3199525	Soil	25.0	29.3	0.44	82.7	0.005	<20	1.48	0.001	0.07	<0.1	1.7	0.15	0.04	114	3.6	0.13
3199526	Soil	23.3	26.4	0.31	66.5	0.008	<20	1.35	0.002	0.07	<0.1	1.5	0.16	0.03	46	1.6	0.09
3199527	Soil	23.6	28.9	0.48	51.8	0.004	<20	1.49	0.002	0.05	<0.1	1.5	0.13	0.03	52	1.8	0.06
3199528	Soil	17.7	23.0	0.20	212.1	0.005	<20	1.05	0.002	0.10	<0.1	1.3	0.24	0.09	59	5.3	0.16
3199529	Soil	16.4	20.0	0.17	162.5	0.004	<20	0.99	0.002	0.09	<0.1	0.9	0.20	0.08	84	4.1	0.12
3199530	Soil	16.7	37.9	0.08	159.4	0.005	<20	0.84	0.002	0.16	<0.1	3.6	0.56	0.05	192	3.4	0.13
3199531	Soil	17.6	41.4	0.10	385.7	0.005	<20	0.91	0.002	0.19	<0.1	3.8	0.62	0.15	195	3.4	0.13
3199532	Soil	18.9	20.0	0.19	266.2	0.003	<20	0.90	0.002	0.13	<0.1	1.4	0.36	0.12	120	3.4	0.10
3199533	Soil	19.9	24.6	0.35	190.0	0.002	<20	1.15	0.002	0.11	<0.1	1.9	0.30	0.06	84	2.7	0.13
3199534	Soil	15.6	19.1	0.32	229.5	0.002	<20	0.99	0.003	0.11	<0.1	1.7	0.33	0.10	201	2.2	0.16
3199535	Soil	18.6	19.5	0.22	248.2	0.005	<20	0.93	0.003	0.14	<0.1	1.8	0.47	0.07	211	6.6	0.12
3199536	Soil	16.0	16.0	0.11	383.2	0.004	<20	0.69	0.004	0.15	<0.1	1.9	0.64	0.11	272	7.6	0.14
3199537	Soil	16.2	18.5	0.28	152.8	0.003	<20	1.05	0.006	0.08	<0.1	1.3	0.17	0.04	94	1.8	0.09



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

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# CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		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
3199538	Soil	5.78	21.98	24.07	79.1	568	17.7	3.5	107	2.80	31.9	1.7	1.6	0.9	29.7	0.28	3.03	0.26	26	0.02	0.111
3199539	Soil	3.15	15.67	15.06	48.0	831	10.1	1.7	40	1.47	14.9	1.1	1.3	0.2	13.6	0.13	1.48	0.15	16	0.02	0.077
3199540	Soil	6.91	26.68	19.32	128.4	472	26.1	4.9	140	3.85	37.0	1.6	0.6	2.8	21.9	0.35	3.81	0.21	32	0.05	0.131
3199541	Soil	6.75	26.64	18.82	126.5	435	26.7	6.8	176	3.59	35.7	1.7	1.5	4.1	22.5	0.38	4.03	0.20	30	0.06	0.129
3199542	Soil	6.80	49.18	32.47	243.9	159	56.5	13.5	259	3.74	30.2	1.8	0.4	7.0	19.2	0.77	2.43	0.26	47	0.16	0.162
3199543	Soil	10.53	26.40	27.69	87.5	454	19.4	4.1	112	3.43	42.3	1.4	<0.2	0.4	8.3	0.26	2.28	0.33	77	0.03	0.139
3199544	Soil	7.06	17.01	26.26	92.0	113	19.6	4.0	140	2.68	24.5	1.2	<0.2	0.5	14.1	0.20	2.00	0.21	49	0.07	0.137
3199545	Soil	4.49	17.82	18.29	106.6	44	24.5	4.6	150	2.78	20.2	1.3	1.1	3.1	13.9	0.19	1.70	0.17	35	0.12	0.125
3199546	Soil	5.96	18.57	19.72	97.0	174	21.9	3.6	119	2.54	19.7	1.4	0.6	1.1	10.1	0.20	1.21	0.19	43	0.04	0.107
3199547	Soil	4.63	17.82	14.72	110.4	52	22.6	5.1	151	2.45	18.9	1.3	<0.2	2.7	11.4	0.28	1.50	0.15	32	0.10	0.100
3199548	Soil	0.41	5.41	2.37	2.4	119	1.5	0.3	7	0.12	0.9	0.5	<0.2	<0.1	7.2	0.06	0.28	0.03	4	0.07	0.034
3199549	Soil	8.10	64.46	54.29	250.6	2864	46.6	5.0	98	3.86	37.0	10.8	3.8	3.8	22.6	0.55	1.48	0.48	103	0.07	0.245
3199550	Soil	7.05	24.74	40.24	123.8	273	30.9	6.6	187	5.16	59.6	1.5	1.1	0.6	11.3	0.29	2.68	0.34	49	0.03	0.180
3199551	Soil	6.71	28.47	25.86	184.2	250	40.3	10.0	265	3.77	52.5	1.8	1.7	2.7	13.0	0.57	2.96	0.26	38	0.12	0.161
3199552	Soil	10.56	58.34	44.69	191.5	602	35.0	11.0	561	9.02	101.7	2.3	1.1	1.1	24.9	0.19	5.14	0.33	64	0.02	0.254
3199553	Soil	5.16	30.49	20.84	57.7	141	12.1	2.8	67	3.08	42.9	1.1	1.4	0.2	14.3	0.11	2.03	0.23	46	0.04	0.118
3199554	Soil	1.18	31.23	7.89	53.9	182	13.1	2.2	48	3.25	139.4	1.7	9.9	11.4	9.6	0.10	2.14	0.40	11	<0.01	0.089
3199555	Soil	6.91	42.59	25.74	135.3	527	28.8	9.8	199	5.80	61.5	1.4	0.9	2.6	15.6	0.21	3.00	0.38	90	0.05	0.127
3199556	Soil	9.69	70.47	48.81	146.2	727	27.7	7.7	182	4.61	50.4	3.1	1.2	7.1	36.2	0.30	5.83	0.31	77	0.05	0.179
3199557	Soil	0.24	6.44	24.29	132.7	140	20.2	1.2	29	1.43	23.1	1.3	0.5	14.5	7.3	0.06	0.23	1.15	3	0.03	0.029
3199558	Soil	3.99	25.40	25.16	113.4	112	24.9	5.8	195	3.59	36.6	1.6	25.2	1.4	18.3	0.26	2.72	0.27	54	0.10	0.115
3199559	Soil	0.29	7.58	22.82	40.3	45	4.5	1.1	54	1.83	6.8	3.6	<0.2	17.5	10.0	0.12	1.13	1.23	8	<0.01	0.054
3199560	Rock Pulp	12.17	155.64	260.40	202.9	98	78.1	47.8	273	1.51	8.8	0.4	37.7	3.0	34.0	0.57	0.18	0.15	23	0.54	0.054
3199561	Soil	10.01	48.58	13.87	215.1	334	64.9	6.7	55	9.19	85.6	5.1	<0.2	6.2	16.1	0.23	9.71	0.18	54	<0.01	0.249
3199562	Soil	5.91	43.87	29.60	128.5	183	40.9	0.6	11	2.16	40.1	7.5	2.5	6.6	73.9	0.85	8.80	0.26	197	0.02	0.357
3199563	Soil	13.10	70.63	118.34	51.3	61	16.2	0.9	16	3.33	33.1	3.9	3.1	3.4	76.3	0.10	3.22	0.26	38	0.01	0.159
3199564	Soil	22.86	101.93	77.52	167.6	3142	25.1	0.7	9	4.28	39.1	9.3	0.9	8.6	64.5	0.62	15.24	0.38	217	0.02	0.259
3199565	Soil	35.08	35.08	109.10	62.6	2081	8.0	0.9	32	3.39	269.3	6.1	4.8	16.0	51.8	0.70	13.41	0.93	130	<0.01	0.139
3199566	Soil	53.31	8.10	79.79	3.6	1984	2.0	0.2	6	1.23	23.7	2.3	0.9	3.5	11.6	0.07	9.42	0.28	81	<0.01	0.047
3199567	Soil	37.95	21.28	108.11	18.0	1953	4.5	1.0	55	1.22	40.7	4.0	1.5	2.3	20.6	0.16	10.19	0.34	137	0.04	0.072



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
		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
3199538	Soil	9.7	15.9	0.16	208.4	0.005	<20	0.99	0.016	0.10	<0.1	0.9	0.22	0.06	128	2.0	0.08	2.6
3199539	Soil	7.1	9.8	0.11	108.0	0.004	<20	0.70	0.016	0.06	<0.1	0.5	0.13	0.03	106	0.8	0.04	1.9
3199540	Soil	21.1	21.3	0.35	143.4	0.004	<20	1.07	0.003	0.09	<0.1	1.5	0.15	0.04	58	2.1	0.06	2.8
3199541	Soil	20.7	21.4	0.37	138.5	0.004	<20	1.07	0.003	0.08	<0.1	1.5	0.16	0.04	78	2.4	0.07	2.7
3199542	Soil	23.2	28.3	0.42	203.8	0.003	<20	1.51	0.003	0.17	<0.1	3.3	0.28	<0.02	174	1.0	0.06	3.3
3199543	Soil	13.4	22.1	0.12	89.4	0.007	<20	1.14	0.004	0.06	<0.1	0.9	0.28	0.03	67	2.1	0.10	4.4
3199544	Soil	16.2	18.9	0.16	108.6	0.004	<20	0.88	0.002	0.08	<0.1	0.7	0.24	0.02	31	1.3	0.07	3.5
3199545	Soil	25.2	22.2	0.34	100.5	0.004	<20	1.07	0.002	0.08	<0.1	1.2	0.18	<0.02	30	0.9	0.07	2.7
3199546	Soil	17.7	21.0	0.23	138.0	0.004	<20	1.15	0.005	0.10	<0.1	1.2	0.21	<0.02	51	1.0	0.04	3.6
3199547	Soil	26.2	20.6	0.33	113.9	0.004	<20	1.04	0.002	0.07	<0.1	1.2	0.14	<0.02	55	0.6	<0.02	2.5
3199548	Soil	1.7	1.4	0.02	35.8	0.013	<20	0.47	0.027	0.02	<0.1	0.3	0.03	<0.02	15	1.8	<0.02	1.6
3199549	Soil	14.5	50.0	0.29	838.6	0.003	<20	3.22	0.006	0.32	<0.1	4.4	0.82	0.06	530	5.8	0.10	7.4
3199550	Soil	14.4	28.9	0.23	142.9	0.006	<20	1.33	0.002	0.08	<0.1	0.9	0.31	0.04	49	2.8	0.12	4.3
3199551	Soil	19.7	22.7	0.31	111.2	0.004	<20	1.13	0.002	0.07	<0.1	1.4	0.25	<0.02	52	1.7	0.10	2.6
3199552	Soil	8.5	47.3	0.14	228.8	0.011	<20	1.47	0.006	0.08	0.1	1.4	0.26	0.17	116	3.4	0.14	5.2
3199553	Soil	8.3	17.0	0.04	267.6	0.007	<20	0.88	0.011	0.05	<0.1	0.7	0.16	0.06	32	2.0	0.04	3.8
3199554	Soil	37.7	8.2	0.05	87.1	0.002	<20	0.86	0.003	0.13	<0.1	2.1	0.27	0.03	31	0.7	0.18	1.9
3199555	Soil	17.3	38.5	0.26	162.6	0.026	<20	1.80	0.003	0.07	0.2	2.4	0.30	0.04	63	2.1	0.08	6.6
3199556	Soil	17.7	32.0	0.35	639.7	0.033	<20	1.39	0.005	0.14	0.1	4.5	0.41	0.13	208	6.8	0.11	4.3
3199557	Soil	19.8	2.9	0.11	131.0	0.003	<20	1.31	0.003	0.14	<0.1	1.5	0.23	<0.02	<5	<0.1	<0.02	2.8
3199558	Soil	20.8	28.7	0.29	294.4	0.029	<20	1.19	0.004	0.07	0.2	1.8	0.17	0.04	24	2.3	0.02	4.5
3199559	Soil	18.3	5.3	0.05	71.1	0.001	<20	0.90	0.006	0.13	<0.1	2.1	0.17	0.04	<5	<0.1	<0.02	2.1
3199560	Rock Pulp	25.6	31.6	0.46	59.3	0.075	<20	0.80	0.083	0.11	<0.1	3.2	0.08	0.04	8	<0.1	<0.02	2.9
3199561	Soil	11.7	17.7	0.02	319.5	0.004	<20	0.69	0.004	0.08	<0.1	6.4	0.24	<0.02	44	1.2	0.04	1.7
3199562	Soil	7.8	24.0	0.02	6794.0	0.006	<20	1.75	0.002	0.09	<0.1	4.6	0.22	0.03	203	10.6	0.30	4.0
3199563	Soil	11.2	16.9	0.02	2265.7	0.004	<20	0.83	0.002	0.07	0.1	3.0	0.14	0.04	61	5.6	0.18	2.4
3199564	Soil	12.4	37.6	0.02	2376.9	0.005	<20	1.20	0.004	0.22	<0.1	5.0	0.62	0.27	1648	33.5	0.31	5.9
3199565	Soil	24.7	26.8	0.04	1041.8	0.010	<20	0.80	0.010	0.36	<0.1	3.6	1.21	0.62	275	18.9	0.25	6.0
3199566	Soil	9.6	11.9	<0.01	789.0	0.020	<20	0.15	0.004	0.21	0.5	1.2	1.57	0.40	48	23.7	0.57	1.6
3199567	Soil	11.7	18.4	0.09	586.4	0.024	<20	0.51	0.016	0.13	0.5	1.7	1.50	0.19	222	11.6	0.21	3.0



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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

Project:

MacMillan Pass

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# CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		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	0.1	0.2	0.5	0.01	0.02	0.02	1	0.01	0.001
3199568	Soil	96.27	42.02	90.78	39.9	2732	5.3	0.7	22	2.56	59.5	9.3	1.3	6.5	60.9	0.14	17.77	0.41	260	0.02	0.171
3199569	Soil	36.99	21.42	37.62	32.1	956	8.5	1.2	32	1.57	34.7	6.2	0.9	0.3	92.2	0.19	9.39	0.28	146	0.09	0.144
3199570	Soil	70.38	69.66	39.80	209.0	1910	69.0	5.8	188	4.77	214.0	18.7	0.9	5.7	205.1	0.52	14.64	0.40	460	0.13	0.577
3199571	Soil	42.70	68.85	64.76	50.8	1114	19.7	5.1	105	3.27	290.7	13.6	0.3	17.0	98.4	0.75	5.55	0.64	228	0.03	0.275
3199572	Soil	94.77	40.84	46.74	67.4	1731	15.6	1.8	44	3.12	79.3	8.3	<0.2	9.9	56.4	0.35	17.52	0.27	242	0.04	0.140
3199573	Soil	141.96	49.47	259.52	76.9	5855	20.5	3.3	114	5.79	101.7	10.1	<0.2	5.7	93.3	0.17	32.47	0.68	357	0.03	0.183
3199574	Soil	49.90	23.63	131.25	11.6	2342	3.2	0.4	13	3.89	61.7	3.1	0.5	8.4	29.7	0.05	29.37	0.37	161	<0.01	0.128
3199575	Soil	10.12	27.54	60.74	124.3	996	19.1	1.4	39	3.08	78.4	4.0	<0.2	15.1	43.9	0.36	3.61	0.40	63	<0.01	0.134
3199576	Soil	13.49	14.81	39.76	6.6	1312	3.8	0.3	6	1.01	12.1	1.5	0.7	0.3	13.0	<0.01	5.72	0.14	52	0.01	0.053
3199577	Soil	35.21	36.93	75.61	73.9	2177	11.5	0.8	24	3.29	44.8	5.4	<0.2	3.9	40.2	0.23	12.74	0.29	193	0.02	0.180
3199578	Soil	23.15	24.58	35.24	21.0	1069	4.0	0.6	49	1.09	36.0	7.7	0.4	1.4	41.9	0.03	6.40	1.08	77	0.05	0.100
3199579	Soil	21.14	16.60	53.00	20.3	982	2.6	0.1	9	1.47	54.7	9.9	<0.2	7.1	80.9	0.07	5.38	2.91	122	0.01	0.141
3199580	Soil	19.69	15.57	55.61	21.2	963	2.5	0.2	11	1.28	53.3	10.2	0.4	8.6	75.0	0.13	6.09	3.65	102	0.01	0.142
3199581	Soil	31.99	10.34	93.06	5.8	2673	1.9	0.2	3	0.76	38.1	2.1	2.1	0.1	9.7	<0.01	8.47	0.34	101	<0.01	0.037
3199582	Soil	54.59	19.17	111.03	4.2	2316	2.5	<0.1	<1	1.49	47.1	6.5	<0.2	5.4	26.5	0.01	9.27	0.30	127	<0.01	0.059
3199583	Soil	38.86	21.63	71.92	23.5	1080	6.7	0.9	15	1.48	58.7	4.3	1.3	0.2	26.8	0.21	6.94	0.53	166	0.02	0.070
3199584	Soil	52.52	17.61	119.63	23.0	1756	4.5	0.9	39	1.73	71.4	4.8	1.4	2.9	26.9	0.05	7.27	1.34	142	0.02	0.092
3199585	Soil	123.02	209.99	174.72	828.4	3573	141.6	15.0	713	6.20	316.5	18.1	1.8	5.5	128.5	10.40	17.01	0.65	605	0.51	0.392
3199586	Soil	48.78	21.94	53.84	16.9	1498	4.3	1.3	73	1.32	52.5	4.5	2.8	0.4	23.2	<0.01	11.13	0.31	99	0.06	0.065
3199587	Soil	64.28	28.70	89.68	71.4	1801	13.1	2.3	109	2.07	85.3	7.0	2.2	4.7	86.1	0.14	11.50	0.32	150	0.07	0.138
3199588	Soil	81.41	27.68	495.15	24.1	3027	5.7	1.0	53	1.96	261.3	14.0	6.1	4.9	75.0	0.19	11.81	0.89	143	0.03	0.130
3199589	Soil	72.35	14.06	295.74	13.0	4845	3.0	0.5	21	1.57	41.2	5.6	3.6	0.6	48.9	0.05	9.25	0.66	157	0.02	0.082
3199590	Soil	150.64	23.55	249.61	25.4	3140	6.0	1.1	34	3.45	138.4	9.9	1.3	7.1	52.1	0.11	20.90	0.73	292	0.01	0.097



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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

**Project:** MacMillan Pass

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	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm
		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
3199568	Soil	15.6	38.5	0.04	177.4	0.023	<20	0.41	0.008	0.32	0.9	3.3	3.68	0.62	599	38.1	0.52
3199569	Soil	8.2	45.5	0.03	1528.7	0.009	<20	0.61	0.016	0.17	0.6	1.1	1.60	0.35	329	15.8	0.25
3199570	Soil	11.0	123.6	0.17	180.3	0.029	<20	2.52	0.018	0.35	1.1	7.7	3.44	0.70	133	30.2	0.39
3199571	Soil	27.8	181.8	1.02	1691.2	0.097	<20	1.93	0.006	0.45	0.3	11.2	2.09	0.44	128	23.3	0.26
3199572	Soil	11.4	52.0	0.27	227.6	0.048	<20	0.61	0.005	0.30	0.5	4.7	3.02	0.57	354	37.7	0.41
3199573	Soil	11.7	53.4	0.24	81.5	0.026	<20	0.67	0.005	0.56	1.0	4.1	4.13	1.26	1057	61.5	0.69
3199574	Soil	8.7	17.6	0.02	119.9	0.024	<20	0.25	0.007	0.48	0.2	2.4	1.72	1.02	704	49.0	0.41
3199575	Soil	23.3	13.2	0.09	2079.1	0.006	<20	0.93	0.001	0.13	<0.1	3.0	0.48	0.15	148	15.8	0.09
3199576	Soil	4.2	13.3	0.02	1288.4	0.011	<20	0.64	0.017	0.08	0.1	0.5	0.60	0.15	237	8.1	0.11
3199577	Soil	13.0	27.3	0.06	167.2	0.011	<20	0.60	0.010	0.28	0.2	2.6	1.49	0.58	454	26.4	0.32
3199578	Soil	8.2	21.1	0.13	1307.7	0.010	<20	0.51	0.012	0.12	0.4	2.1	1.32	0.25	101	10.3	0.13
3199579	Soil	13.1	32.2	0.01	1721.2	0.007	<20	0.58	0.004	0.18	<0.1	4.2	1.49	0.34	121	12.6	0.16
3199580	Soil	14.2	25.4	0.01	1630.0	0.008	<20	0.49	0.004	0.16	<0.1	4.3	1.37	0.30	79	11.7	0.14
3199581	Soil	15.3	10.4	0.02	2003.3	0.007	<20	0.20	<0.001	0.06	0.6	0.5	0.88	0.11	186	10.9	0.26
3199582	Soil	7.3	24.4	0.02	282.9	0.009	<20	0.16	0.002	0.21	0.8	1.9	2.27	0.45	531	20.6	0.38
3199583	Soil	21.9	22.7	0.02	1035.4	0.009	<20	0.45	0.001	0.08	0.5	0.6	0.68	0.12	171	10.2	0.26
3199584	Soil	14.0	22.8	0.10	912.3	0.009	<20	0.55	0.002	0.15	0.5	1.3	1.66	0.26	441	15.2	0.32
3199585	Soil	12.4	98.6	0.32	297.7	0.015	<20	2.25	0.005	0.30	0.9	9.0	3.85	0.57	465	24.3	0.51
3199586	Soil	9.4	12.2	0.08	496.2	0.017	<20	0.53	0.019	0.12	0.6	0.8	1.42	0.22	201	11.9	0.28
3199587	Soil	9.6	22.8	0.15	732.0	0.023	<20	0.63	0.017	0.16	0.7	3.1	1.72	0.31	636	15.7	0.39
3199588	Soil	22.8	28.4	0.08	1301.8	0.015	<20	0.81	0.014	0.20	1.0	2.5	2.35	0.35	873	26.6	0.55
3199589	Soil	15.1	23.6	0.04	851.6	0.013	<20	0.67	0.007	0.17	1.1	0.8	1.84	0.28	653	19.0	0.47
3199590	Soil	15.9	35.8	0.07	161.1	0.028	<20	0.45	0.005	0.40	1.3	2.5	4.19	0.78	805	40.9	0.78



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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

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## QUALITY CONTROL REPORT

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Method Analyte Unit MDL		AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		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																					
3198459	Soil	6.65	28.38	28.50	116.8	450	25.5	12.3	380	2.66	45.0	2.3	0.5	<0.1	12.1	0.58	2.69	0.26	34	0.06	0.143
REP 3198459	QC	6.73	29.54	28.62	118.1	460	26.7	12.5	393	2.69	45.1	2.4	0.5	<0.1	12.5	0.59	2.61	0.28	35	0.06	0.157
3198495	Soil	6.44	49.88	130.73	82.1	2860	8.4	0.4	8	4.23	17.5	11.7	2.6	6.0	223.6	0.06	10.08	0.31	115	0.03	0.492
REP 3198495	QC	6.27	50.56	131.84	82.5	2918	8.0	0.4	8	4.27	17.2	11.5	2.5	6.2	225.1	0.08	10.00	0.32	113	0.03	0.487
3199486	Soil	71.70	287.80	56.63	828.0	1477	263.9	40.2	1385	5.52	38.2	19.5	0.4	1.9	13.3	1.18	7.95	0.18	210	0.06	0.244
REP 3199486	QC	71.08	284.60	55.32	802.2	1435	261.4	39.1	1367	5.48	37.5	19.8	0.4	1.9	13.3	1.23	8.09	0.18	212	0.06	0.244
3199522	Rock Pulp	0.63	23.52	2.11	20.3	26	16.9	5.7	263	1.44	0.6	0.5	0.4	2.9	33.3	0.03	0.06	0.02	22	0.64	0.051
REP 3199522	QC	0.68	22.77	2.09	20.7	21	16.9	5.9	246	1.43	0.8	0.5	1.1	3.0	33.6	0.04	0.06	0.02	22	0.64	0.052
3199558	Soil	3.99	25.40	25.16	113.4	112	24.9	5.8	195	3.59	36.6	1.6	25.2	1.4	18.3	0.26	2.72	0.27	54	0.10	0.115
REP 3199558	QC	4.01	27.03	26.33	117.4	91	25.5	6.0	198	3.62	36.4	1.6	3.8	1.5	18.0	0.34	2.95	0.27	54	0.10	0.113
Reference Materials																					
STD DS11	Standard	14.40	153.72	143.11	350.7	1665	82.1	14.0	1051	3.29	44.6	2.7	54.2	8.0	73.5	2.48	7.40	12.11	51	1.09	0.070
STD DS11	Standard	14.12	141.20	126.24	322.6	1562	75.2	13.0	978	2.98	41.5	2.9	109.1	7.0	64.8	2.13	7.03	10.40	47	1.03	0.068
STD DS11	Standard	12.28	141.89	131.74	312.9	1517	76.8	12.3	984	2.89	41.9	2.4	41.2	6.8	64.1	2.29	7.37	11.28	45	0.97	0.066
STD DS11	Standard	14.40	148.18	139.35	335.6	1688	78.0	13.6	1020	3.09	41.3	2.7	66.6	8.6	76.4	2.26	6.95	12.15	49	1.05	0.071
STD DS11	Standard	12.74	155.70	129.02	331.0	1618	72.2	13.2	982	2.95	41.7	2.9	58.9	8.4	60.9	2.42	6.28	12.74	46	1.00	0.071
STD DS11	Standard	15.35	150.44	136.55	309.1	1554	74.8	13.5	939	2.95	38.1	2.5	55.3	7.6	62.6	1.96	5.11	10.53	48	1.02	0.069
STD DS11	Standard	13.50	145.72	132.83	336.8	1971	79.7	13.1	995	3.11	40.9	2.6	132.0	7.8	70.5	2.41	5.93	11.72	48	1.01	0.070
STD DS11	Standard	12.90	146.99	140.69	352.2	1692	76.9	13.3	1039	3.18	45.0	2.8	65.1	8.1	69.7	2.45	8.54	12.65	53	1.05	0.070
STD OREAS45EA	Standard	1.88	688.53	14.93	33.5	258	401.2	53.1	458	24.79	11.7	1.9	60.4	11.1	4.3	0.05	0.35	0.26	308	0.03	0.030
STD OREAS45EA	Standard	1.44	692.47	12.28	29.7	217	395.8	48.5	371	20.07	10.2	1.6	49.5	9.0	3.4	<0.01	0.38	0.22	290	0.03	0.028
STD OREAS45EA	Standard	1.62	682.62	14.13	30.7	238	388.4	50.2	392	20.07	10.9	1.9	42.8	10.5	4.2	0.02	0.32	0.25	299	0.03	0.027
STD OREAS45EA	Standard	1.75	727.95	16.25	33.1	282	396.5	54.7	425	23.20	11.7	2.0	53.7	11.6	4.4	0.04	0.44	0.28	318	0.03	0.029
STD OREAS45EA	Standard	1.73	734.58	16.30	36.1	253	421.6	61.2	466	24.98	12.5	2.3	61.8	12.6	4.5	0.03	0.39	0.36	327	0.03	0.035
STD OREAS45EA	Standard	1.40	626.63	13.74	27.9	204	349.1	48.4	362	20.11	8.8	1.6	46.6	10.3	4.6	<0.01	0.03	0.26	270	0.03	0.026
STD OREAS45EA	Standard	1.49	656.89	13.66	32.9	220	374.2	50.7	401	23.57	10.6	1.8	57.5	9.9	3.7	0.03	0.38	0.24	290	0.03	0.030
STD OREAS45EA	Standard	1.71	721.61	15.11	33.2	268	407.4	49.2	418	21.39	12.8	2.0	57.6	10.9	4.2	<0.01	0.49	0.28	331	0.03	0.028
STD OREAS45EA Expected		1.6	709	14.3	31.4	260	381	52	400	22.65	11.4	1.73	53	10.7	4.05	0.03	0.32	0.26	303	0.036	0.029





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## QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
		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
Pulp Duplicates																		
3198459	Soil	10.7	13.3	0.08	139.3	0.005	<20	0.71	0.011	0.08	0.1	0.7	0.33	0.05	65	1.5	0.10	2.8
REP 3198459	QC	10.9	14.1	0.08	145.5	0.006	<20	0.73	0.011	0.09	0.1	0.9	0.34	0.06	69	1.7	0.06	2.9
3198495	Soil	28.9	40.8	0.02	8596.1	0.007	<20	0.93	0.001	0.17	<0.1	4.6	0.70	0.21	2307	28.3	0.20	5.5
REP 3198495	QC	30.2	40.1	0.02	8269.5	0.007	<20	0.91	<0.001	0.16	<0.1	4.2	0.71	0.21	2378	29.4	0.15	5.7
3199486	Soil	10.6	31.8	0.22	99.0	0.005	<20	1.79	0.005	0.07	0.2	3.5	1.57	0.12	501	6.4	0.15	1.7
REP 3199486	QC	10.3	31.8	0.23	100.4	0.005	<20	1.78	0.005	0.07	0.2	3.4	1.58	0.12	503	5.7	0.17	1.5
3199522	Rock Pulp	16.5	27.4	0.45	54.2	0.079	<20	0.77	0.081	0.12	<0.1	3.0	0.07	<0.02	9	<0.1	<0.02	2.8
REP 3199522	QC	16.4	25.9	0.45	53.2	0.077	<20	0.77	0.081	0.12	<0.1	2.9	0.06	<0.02	12	<0.1	<0.02	2.7
3199558	Soil	20.8	28.7	0.29	294.4	0.029	<20	1.19	0.004	0.07	0.2	1.8	0.17	0.04	24	2.3	0.02	4.5
REP 3199558	QC	19.8	29.2	0.29	288.3	0.026	<20	1.21	0.004	0.07	0.2	1.8	0.17	0.05	18	2.3	0.08	4.4
Reference Materials																		
STD DS11	Standard	19.0	62.3	0.87	443.3	0.099	<20	1.17	0.077	0.41	2.7	3.6	4.88	0.29	244	1.4	4.59	4.8
STD DS11	Standard	16.8	54.4	0.81	371.0	0.090	<20	1.12	0.071	0.40	2.3	2.9	4.54	0.27	227	1.8	4.26	4.9
STD DS11	Standard	16.5	53.6	0.78	352.8	0.087	<20	1.03	0.065	0.37	2.6	3.2	4.67	0.25	218	2.0	4.40	4.5
STD DS11	Standard	19.2	58.2	0.83	371.8	0.103	<20	1.14	0.072	0.40	2.5	3.3	4.80	0.28	270	2.1	4.44	4.9
STD DS11	Standard	19.9	56.5	0.80	412.0	0.093	<20	1.05	0.071	0.39	2.6	2.9	4.78	0.29	243	2.0	4.46	4.7
STD DS11	Standard	19.3	57.2	0.80	368.4	0.094	<20	1.09	0.072	0.39	2.4	2.9	4.79	0.28	229	1.9	4.20	4.7
STD DS11	Standard	19.1	57.4	0.83	376.6	0.095	<20	1.11	0.072	0.38	2.5	3.4	4.70	0.27	248	2.4	4.64	4.9
STD DS11	Standard	17.5	55.7	0.84	379.2	0.091	<20	1.12	0.069	0.41	2.7	3.2	5.07	0.27	301	2.2	4.98	5.3
STD OREAS45EA	Standard	7.5	895.6	0.11	147.0	0.106	<20	3.39	0.021	0.06	<0.1	85.3	0.07	0.04	7	0.9	0.09	13.4
STD OREAS45EA	Standard	6.0	773.0	0.09	121.6	0.093	<20	3.21	0.016	0.05	<0.1	73.9	0.06	0.03	6	1.4	0.10	11.1
STD OREAS45EA	Standard	6.8	756.8	0.09	140.0	0.098	<20	3.21	0.018	0.06	<0.1	74.3	0.06	0.03	14	1.0	0.13	11.7
STD OREAS45EA	Standard	8.2	848.3	0.11	156.0	0.110	<20	3.61	0.021	0.06	<0.1	79.2	0.07	0.03	23	1.4	0.10	13.0
STD OREAS45EA	Standard	8.8	954.5	0.11	159.3	0.119	<20	3.52	0.023	0.06	<0.1	86.6	0.07	0.04	10	1.3	0.12	14.2
STD OREAS45EA	Standard	6.7	805.9	0.09	127.7	0.093	<20	2.83	0.018	0.05	<0.1	66.2	0.09	0.04	33	0.8	0.06	12.0
STD OREAS45EA	Standard	7.0	790.4	0.10	140.9	0.098	<20	3.14	0.019	0.05	<0.1	79.4	0.06	0.04	8	1.6	0.15	12.0
STD OREAS45EA	Standard	7.3	785.1	0.09	150.1	0.098	<20	3.35	0.017	0.05	<0.1	75.7	0.07	0.03	21	1.4	0.11	12.9
STD OREAS45EA Expected		7.06	849	0.095	148	0.0984		3.32	0.02	0.053		78	0.072	0.036	10	0.78	0.1	12.4



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Canada

[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

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

**Project:**

MacMillan Pass

**Report Date:**

August 15, 2018

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## QUALITY CONTROL REPORT

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		AQ250 Mo ppm 0.01	AQ250 Cu ppm 0.01	AQ250 Pb ppm 0.01	AQ250 Zn ppm 0.1	AQ250 Ag ppb 2	AQ250 Ni ppm 0.1	AQ250 Co ppm 0.1	AQ250 Mn ppm 1	AQ250 Fe % 0.01	AQ250 As ppm 0.1	AQ250 U ppm 0.1	AQ250 Au ppb 0.2	AQ250 Th ppm 0.1	AQ250 Sr ppm 0.5	AQ250 Cd ppm 0.01	AQ250 Sb ppm 0.02	AQ250 Bi ppm 0.02	AQ250 V ppm 1	AQ250 Ca % 0.01	AQ250 P % 0.001
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	0.0701
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	0.8	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001
BLK	Blank	<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
BLK	Blank	<0.01	<0.01	<0.01	<0.1	3	<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
BLK	Blank	0.01	<0.01	0.02	0.2	<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	0.003
BLK	Blank	<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
BLK	Blank	0.01	<0.01	0.01	<0.1	3	0.2	<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
BLK	Blank	<0.01	0.02	<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



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Canada

[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

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

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## QUALITY CONTROL REPORT

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		AQ250 La ppm 0.5	AQ250 Cr ppm 0.5	AQ250 Mg % 0.01	AQ250 Ba ppm 0.5	AQ250 Ti % 0.001	AQ250 B ppm 20	AQ250 Al % 0.01	AQ250 Na % 0.001	AQ250 K % 0.01	AQ250 W ppm 0.1	AQ250 Sc ppm 0.1	AQ250 Ti ppm 0.02	AQ250 S % 0.02	AQ250 Hg ppb 5	AQ250 Se ppm 0.1	AQ250 Te ppm 0.02	AQ250 Ga ppm 0.1
STD DS11 Expected		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
BLK	Blank	<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	<0.5	<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	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	14	<0.1	<0.02	<0.1
BLK	Blank	<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	<0.5	<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	<0.5	<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	<0.5	<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