



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: August 08, 2019
Report Date: September 09, 2019
Page: 1 of 3

CERTIFICATE OF ANALYSIS

WHI19000338.1

CLIENT JOB INFORMATION

Project: MacMillan Pass
Shipment ID: FWZ19-BV-022
P.O. Number
Number of Samples: 36

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days
RTRN-RJT Return 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: Fireweed Zinc Ltd.
Suite 1020, 800 Pender Street
Vancouver British Columbia V5C 2V6
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	35	Crush, split and pulverize 500g rock to 200 mesh			WHI
SLBHP	1	Sort, label and box pulps			WHI
CRUBW	35	Extra clean rock wash between samples in crusher			WHI
PULSW	35	Extra Wash with Silica between each sample			WHI
AQ270	36	1:1:1 Aqua Regia digestion ICP-ES/ICP-MS analysis	1	Completed	VAN
LF725	36	Li2B4O7/LiBO2 fusion, analysis by XRF		Completed	VAN
TC000	36	Total C/S Analysis by Leco	0.1	Completed	VAN
TC007	36	Graphite and Organic C by Leco After Ignition	0.1	Completed	VAN
TC006	36	Inorganic Carbon	0.2	Completed	VAN
TC009	36	Sulfide and Sulfate	0.1	Completed	VAN
SHP01	36	Per sample shipping charges for branch shipments			VAN
FA330	35	Fire assay fusion Au Pt Pd by ICP-ES	30	Completed	VAN
EN002	36	Environmental disposal charge-Fire assay lead waste			VAN

ADDITIONAL COMMENTS

V205 from LF725 is Qualitative Data only.



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

WHI19000338.1

	Method	Analyte	Unit	MDL	WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270			
					Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	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	0.5	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	10	0.01	0.001
3201056	Drill Core	4.78	49.1	117.5	43.7	2577	2.6	204.8	6.1	129	1.47	90	10.3	2.4	232	57.7	24.1	<0.5	984	1.28	0.484			
3201057	Drill Core	4.19	28.4	63.1	33.1	5137	1.4	314.8	16.2	999	1.56	124	8.1	2.0	520	110.0	10.2	<0.5	504	3.72	0.831			
3201058	Drill Core	4.32	53.4	58.6	38.7	1175	1.0	188.5	4.6	132	1.13	178	9.8	1.3	179	32.6	14.2	<0.5	770	0.66	0.232			
3201059	Drill Core	3.02	67.6	81.5	40.3	2382	1.5	202.0	4.7	123	1.29	226	11.4	1.5	198	58.6	27.4	<0.5	836	0.65	0.265			
3201060	Rock Pulp	0.07	2.7	237.8	17805.4	30226	36.7	28.3	20.4	1974	5.48	88	1.6	7.4	22	96.8	49.2	<0.5	16	5.30	0.055			
3201061	Drill Core	3.46	73.3	45.8	25.1	2304	1.2	205.1	7.5	275	1.37	127	10.4	1.6	123	70.7	19.8	<0.5	456	0.51	0.113			
3201062	Drill Core	1.94	25.7	64.1	158.4	3669	1.8	241.5	9.9	451	1.51	190	9.7	2.5	733	76.3	45.4	<0.5	695	3.90	0.731			
3201063	Drill Core	2.10	26.3	59.6	159.3	3549	1.8	229.4	9.1	415	1.48	191	9.6	2.3	746	74.1	45.6	<0.5	701	3.85	0.803			
3201064	Drill Core	4.15	73.0	72.2	108.1	1910	2.1	247.5	6.6	161	1.60	163	9.3	2.3	126	53.2	30.9	<0.5	1061	0.25	0.097			
3201065	Drill Core	4.30	32.0	60.4	48.9	1962	2.6	191.8	7.9	342	1.70	136	5.8	2.2	434	29.6	25.5	<0.5	785	1.06	0.364			
3201066	Drill Core	3.45	18.8	92.8	56.3	1017	4.2	155.8	5.4	255	1.72	146	7.4	2.5	409	14.1	37.7	0.6	471	1.55	0.604			
3201067	Drill Core	4.43	23.3	67.5	27.2	418	1.4	153.4	3.9	184	1.29	161	6.2	1.9	395	6.8	20.9	<0.5	508	1.90	0.761			
3201068	Drill Core	4.80	31.9	107.3	35.6	1297	2.5	198.3	6.6	383	1.44	221	5.0	1.7	316	17.0	34.1	<0.5	734	1.51	0.541			
3201069	Drill Core	5.19	27.8	68.0	14.1	925	1.6	167.2	5.1	203	1.63	151	5.7	2.2	400	14.3	18.8	<0.5	341	1.47	0.577			
3201070	Drill Core	2.67	28.6	60.8	28.8	1509	2.3	224.0	8.2	279	1.47	137	7.5	2.1	508	26.5	28.6	<0.5	468	1.63	0.755			
3201071	Drill Core	2.64	65.7	68.4	55.1	1653	2.3	236.2	6.5	152	1.52	166	8.0	1.6	130	30.9	31.2	<0.5	1048	0.15	0.044			
3201072	Drill Core	3.98	61.7	85.1	99.4	3432	3.4	287.3	9.4	402	1.94	159	7.2	2.0	104	45.5	37.2	1.7	1157	0.26	0.068			
3201073	Drill Core	3.10	13.2	648.4	5445.6	19172	42.4	165.1	7.8	5813	4.28	390	4.7	1.0	1789	251.8	296.7	33.2	433	13.90	0.164			
3201074	Drill Core	4.42	37.7	190.4	1007.6	1721	7.6	178.2	7.0	2186	3.61	96	6.5	1.8	1153	21.7	51.7	1.2	570	5.35	0.178			
3201075	Drill Core	4.85	52.1	233.3	306.1	3286	3.8	268.7	6.6	596	1.52	171	6.6	1.7	416	45.5	42.2	<0.5	1044	0.88	0.202			
3201076	Drill Core	4.23	38.2	32.5	37.9	1106	1.8	106.0	2.8	146	1.04	15	6.9	1.5	1671	13.4	14.8	<0.5	748	0.25	0.074			
3201077	Drill Core	4.03	3.4	4.9	2.4	114	<0.5	8.1	2.7	436	1.70	<5	0.6	1.8	210	1.4	0.8	<0.5	69	0.58	0.040			
3201078	Drill Core	6.80	5.6	8.9	1.5	374	<0.5	30.0	<0.5	59	0.15	<5	0.8	<0.5	2023	4.9	3.5	<0.5	182	1.80	0.008			
3201079	Drill Core	7.23	3.3	3.9	0.8	254	<0.5	21.3	<0.5	26	0.06	<5	0.6	<0.5	8843	3.1	1.7	<0.5	98	0.77	0.004			
3201080	Rock	1.19	1.5	54.4	2.3	38	<0.5	5.0	9.8	472	3.08	<5	0.8	2.6	55	<0.5	<0.5	<0.5	106	1.25	0.061			
3201081	Drill Core	2.99	3.1	3.6	0.5	197	<0.5	11.8	<0.5	12	0.06	<5	0.5	<0.5	>10000	2.2	1.1	<0.5	95	0.58	0.014			
3201082	Drill Core	3.10	3.3	4.2	0.7	199	<0.5	12.2	<0.5	11	0.06	<5	<0.5	<0.5	>10000	2.0	1.1	<0.5	92	0.57	0.011			
3201083	Drill Core	6.23	4.4	4.1	0.8	190	<0.5	19.8	0.5	13	0.10	<5	0.7	<0.5	1741	2.1	1.8	<0.5	122	0.27	0.009			
3201084	Drill Core	9.47	3.2	2.4	<0.5	323	<0.5	20.4	0.8	40	0.08	<5	<0.5	<0.5	5763	2.3	1.8	<0.5	93	1.20	0.017			
3201085	Drill Core	7.79	3.9	4.0	0.8	215	<0.5	18.3	<0.5	13	0.08	<5	0.6	<0.5	2459	3.0	2.1	<0.5	121	0.30	0.007			



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	Method Analyte Unit MDL	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		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	0.01	0.01	0.01
3201056	Drill Core	11.1	82.2	0.07	3529	0.012	0.83	<0.01	0.30	0.7	0.10	4.1	1.3	1.39	<5	37	75.72	5.60	2.21	1.88	0.30
3201057	Drill Core	10.5	70.6	0.94	>5000	0.012	0.90	0.01	0.22	0.6	0.07	4.7	0.6	0.75	<5	20	70.28	3.37	2.33	5.27	1.66
3201058	Drill Core	8.5	36.3	0.07	>5000	0.038	0.80	<0.01	0.30	1.8	0.11	3.4	<0.5	0.73	<5	15	82.08	3.51	1.64	0.94	0.19
3201059	Drill Core	8.1	36.1	0.05	>5000	0.031	0.68	<0.01	0.29	2.2	0.37	3.2	0.6	0.98	<5	24	83.46	3.41	1.94	0.93	0.18
3201060	Rock Pulp	24.3	14.8	2.88	135	0.019	1.01	0.01	0.75	0.8	1.21	3.3	28.1	5.00	<5	<2	43.16	8.49	8.18	7.33	5.35
3201061	Drill Core	9.8	25.1	0.16	>5000	0.016	0.59	<0.01	0.26	1.1	0.15	2.9	1.4	1.10	<5	15	81.72	3.92	2.06	0.74	0.39
3201062	Drill Core	10.3	78.3	0.19	>5000	0.103	2.16	0.02	0.59	2.1	0.54	5.5	1.0	0.36	<5	20	68.98	4.59	2.14	5.34	0.35
3201063	Drill Core	10.9	80.1	0.18	>5000	0.101	2.20	0.03	0.61	1.8	0.53	5.0	0.9	0.32	<5	16	69.89	4.58	2.15	5.32	0.34
3201064	Drill Core	12.3	57.0	0.03	>5000	0.077	1.47	0.02	0.53	2.8	0.22	4.0	0.7	0.73	<5	19	79.94	5.09	2.41	0.36	0.10
3201065	Drill Core	9.3	75.6	0.17	>5000	0.101	2.08	0.03	0.71	1.4	0.21	5.0	0.7	0.50	<5	17	76.02	5.51	2.50	1.50	0.32
3201066	Drill Core	11.5	83.4	0.16	>5000	0.085	2.00	0.02	0.62	1.2	0.21	5.5	0.5	0.67	<5	14	74.54	5.74	2.51	2.28	0.32
3201067	Drill Core	9.8	60.2	0.14	>5000	0.052	0.96	0.01	0.34	0.9	0.15	3.7	<0.5	0.69	<5	15	79.72	3.83	1.95	2.77	0.32
3201068	Drill Core	8.1	58.7	0.25	>5000	0.081	1.73	0.02	0.45	2.5	0.13	5.9	<0.5	0.54	6	6	78.35	3.93	2.17	2.19	0.47
3201069	Drill Core	10.5	43.1	0.11	>5000	0.020	0.74	<0.01	0.32	0.7	0.18	3.9	<0.5	1.00	<5	18	78.42	4.61	2.44	2.17	0.28
3201070	Drill Core	9.4	55.3	0.07	>5000	0.063	1.45	0.02	0.44	1.2	0.15	4.2	<0.5	0.66	<5	17	78.24	4.52	2.13	2.36	0.16
3201071	Drill Core	7.0	35.3	0.05	>5000	0.087	1.21	0.02	0.34	2.2	0.35	3.3	0.6	0.95	<5	31	81.62	4.20	2.30	0.23	0.13
3201072	Drill Core	7.2	44.1	0.08	4111	0.096	1.47	0.02	0.45	2.1	0.49	4.8	0.6	0.95	<5	28	78.37	4.33	2.95	0.41	0.18
3201073	Drill Core	15.3	26.7	1.26	464	0.036	0.75	<0.01	0.09	1.0	4.39	5.0	<0.5	4.28	7	109	35.03	1.46	6.42	19.62	2.35
3201074	Drill Core	12.2	50.8	0.88	1268	0.089	1.81	0.02	0.47	4.5	0.34	4.6	0.9	1.62	<5	29	36.07	3.54	5.29	7.51	1.49
3201075	Drill Core	8.2	67.9	0.10	>5000	0.089	1.73	0.02	0.54	2.5	1.22	4.7	0.7	0.35	<5	21	75.55	3.89	2.14	1.25	0.18
3201076	Drill Core	8.9	48.6	0.13	>5000	0.076	1.41	0.02	0.40	1.7	0.42	3.5	1.0	<0.05	<5	9	44.44	2.87	1.50	0.36	0.26
3201077	Drill Core	5.6	5.0	0.34	>5000	0.082	0.74	0.06	0.08	<0.5	<0.05	3.2	<0.5	0.23	<5	<2	59.14	11.19	2.84	1.90	0.71
3201078	Drill Core	1.4	7.0	0.49	>5000	0.011	0.15	<0.01	0.04	<0.5	<0.05	<0.5	<0.5	0.06	<5	<2	7.70	0.49	0.23	2.58	0.97
3201079	Drill Core	1.1	4.4	0.11	>5000	0.002	0.06	<0.01	<0.01	<0.5	<0.05	0.8	<0.5	0.08	<5	<2	5.99	0.24	0.06	1.07	0.20
3201080	Rock	7.0	6.5	0.87	380	0.190	2.21	0.31	0.33	<0.5	<0.05	4.5	<0.5	<0.05	6	<2	60.31	16.67	6.46	6.30	2.86
3201081	Drill Core	0.9	3.8	0.03	>5000	0.001	0.05	<0.01	0.01	<0.5	<0.05	0.6	<0.5	<0.05	<5	<2	5.45	0.25	0.06	0.82	0.07
3201082	Drill Core	1.0	3.9	0.03	>5000	0.001	0.05	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.05	<5	<2	5.54	0.24	0.06	0.80	0.07
3201083	Drill Core	1.1	4.1	0.01	>5000	0.002	0.07	<0.01	0.02	<0.5	<0.05	<0.5	<0.5	<0.05	<5	<2	4.38	0.36	0.12	0.39	0.05
3201084	Drill Core	1.7	3.5	0.04	>5000	0.002	0.05	<0.01	0.01	<0.5	<0.05	<0.5	<0.5	<0.05	<5	<2	3.22	0.25	0.11	1.73	0.09
3201085	Drill Core	1.0	5.1	0.02	>5000	0.003	0.08	<0.01	0.02	<0.5	<0.05	0.6	<0.5	0.10	<5	<2	4.03	0.35	0.14	0.42	0.05



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	Method	Analyte	Unit	MDL	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008	FA330		
					K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	V2O5	TOT/C	TOT/S	C/ORG	C/GRA	CO2	S/S-	SO4	Au	
					%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppb
					0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05	2
3201056	Drill Core	1.82	0.03	0.26	1.05	0.02	1.45	<0.01	<0.01	0.27	7.71	98.57	0.39	5.07	1.49	3.47	1.58	0.10	1.09	1.19	20				
3201057	Drill Core	0.88	0.14	0.16	1.83	0.01	1.75	<0.01	<0.01	0.53	9.23	97.79	0.17	5.36	0.91	2.84	1.55	3.56	0.23	2.03	16				
3201058	Drill Core	1.18	0.03	0.14	0.53	<0.01	1.83	<0.01	<0.01	0.12	5.13	97.57	0.24	4.17	0.79	3.32	0.74	0.41	0.62	0.51	11				
3201059	Drill Core	1.14	0.03	0.16	0.60	<0.01	1.33	<0.01	<0.01	0.24	5.46	99.11	0.28	4.37	1.02	3.28	1.05	0.14	0.87	0.46	15				
3201060	Rock Pulp	4.15	0.24	0.28	0.11	<0.01	0.07	0.01	1.82	3.06	12.51	95.88	0.01	3.30	4.69	0.41	<0.02	10.57	2.19	7.50	I.S.				
3201061	Drill Core	1.26	0.05	0.18	0.24	<0.01	1.40	<0.01	<0.01	0.23	6.18	98.59	0.22	4.42	1.16	3.27	1.01	0.49	0.81	1.04	14				
3201062	Drill Core	0.91	0.08	0.18	1.63	0.01	6.05	<0.01	0.02	0.37	6.03	97.51	0.14	3.27	1.29	2.28	0.18	2.99	0.63	2.01	14				
3201063	Drill Core	0.89	0.08	0.17	1.72	<0.01	6.11	<0.01	0.02	0.35	5.97	98.40	0.14	3.18	1.17	2.26	0.17	2.73	0.50	2.01	13				
3201064	Drill Core	1.77	0.04	0.19	0.24	<0.01	3.53	<0.01	0.01	0.19	4.34	98.70	0.23	3.24	1.19	2.82	0.39	0.11	1.05	0.42	10				
3201065	Drill Core	1.51	0.06	0.21	0.84	<0.01	5.11	<0.01	<0.01	0.19	4.30	98.78	0.17	2.59	1.19	2.03	0.40	0.56	0.79	1.19	14				
3201066	Drill Core	1.52	0.05	0.24	1.35	0.02	5.19	<0.01	<0.01	0.10	3.94	98.48	0.11	2.48	1.51	1.99	0.31	0.66	1.23	0.85	16				
3201067	Drill Core	1.25	0.05	0.16	1.71	0.02	2.47	<0.01	<0.01	0.04	4.69	99.32	0.13	3.53	0.96	2.72	0.66	0.57	0.75	0.63	15				
3201068	Drill Core	0.83	0.07	0.16	1.15	0.01	4.32	<0.01	<0.01	0.13	5.02	99.36	0.16	3.79	1.07	3.27	0.25	0.99	0.75	0.97	16				
3201069	Drill Core	1.77	0.04	0.18	1.46	0.01	2.21	<0.01	<0.01	0.09	5.10	99.11	0.13	3.63	1.14	1.86	1.67	0.38	0.91	0.69	14				
3201070	Drill Core	1.35	0.05	0.16	1.69	<0.01	3.84	<0.01	<0.01	0.15	4.07	99.28	0.12	2.75	1.12	2.17	0.49	0.33	0.88	0.73	15				
3201071	Drill Core	1.17	0.04	0.20	0.11	<0.01	3.20	<0.01	<0.01	0.17	4.77	98.59	0.27	3.44	1.33	2.37	0.95	0.42	1.15	0.56	13				
3201072	Drill Core	1.17	0.08	0.21	0.16	<0.01	4.73	<0.01	0.01	0.35	5.27	98.88	0.26	3.24	1.80	2.62	0.51	0.40	1.28	1.54	19				
3201073	Drill Core	0.12	0.77	0.05	0.36	<0.01	6.11	0.06	0.55	1.97	14.17	90.32	0.09	5.57	5.77	0.55	<0.02	18.36	3.38	7.15	54				
3201074	Drill Core	0.66	0.27	0.16	0.42	<0.01	22.10	0.01	0.11	0.17	7.93	88.38	0.11	2.60	6.82	0.37	<0.02	8.14	3.21	10.83	7				
3201075	Drill Core	0.90	0.08	0.16	0.48	<0.01	7.00	0.02	0.02	0.32	4.06	96.98	0.20	2.65	1.61	2.30	0.05	1.10	0.82	2.36	13				
3201076	Drill Core	0.56	0.04	0.13	0.17	<0.01	31.68	<0.01	0.01	0.11	4.16	90.05	0.14	1.37	4.46	0.19	<0.02	4.32	0.51	11.83	6				
3201077	Drill Core	1.62	0.08	0.28	0.08	<0.01	9.85	<0.01	<0.01	<0.01	1.99	94.46	0.02	0.15	2.08	0.05	<0.02	0.37	<0.05	6.46	6				
3201078	Drill Core	0.06	0.03	<0.01	0.04	<0.01	51.03	<0.01	<0.01	0.04	4.83	73.95	0.04	1.42	11.07	0.21	<0.02	4.40	0.30	32.31	5				
3201079	Drill Core	0.01	0.02	<0.01	0.04	<0.01	53.50	<0.01	<0.01	0.03	2.60	70.02	0.03	0.74	11.66	0.13	<0.02	2.20	<0.05	35.01	6				
3201080	Rock	1.48	0.14	0.53	0.13	<0.01	0.08	<0.01	<0.01	<0.01	1.02	99.30	0.03	0.03	<0.02	<0.02	<0.02	0.08	<0.05	0.11	6				
3201081	Drill Core	0.02	0.02	<0.01	0.05	<0.01	54.23	<0.01	<0.01	0.02	3.79	71.08	0.01	1.09	11.32	0.18	<0.02	3.30	0.45	32.61	6				
3201082	Drill Core	0.01	0.02	<0.01	0.04	<0.01	54.98	<0.01	0.01	0.02	3.87	72.04	0.01	1.14	10.74	0.20	<0.02	3.42	<0.05	32.16	6				
3201083	Drill Core	0.06	0.02	<0.01	0.05	<0.01	56.84	<0.01	<0.01	0.02	3.49	72.38	0.02	1.04	11.17	0.17	<0.02	3.16	<0.05	33.81	7				
3201084	Drill Core	0.02	0.02	<0.01	0.06	<0.01	58.78	<0.01	<0.01	0.03	7.29	78.43	0.02	3.17	6.91	0.29	<0.02	10.50	<0.05	21.25	6				
3201085	Drill Core	0.04	0.01	<0.01	0.04	<0.01	55.78	<0.01	<0.01	0.02	1.73	69.09	0.02	0.51	12.64	0.14	<0.02	1.33	0.26	37.14	5				



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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	FA330	FA330
		Pt	Pd
		ppb	ppb
		3	2
3201056	Drill Core	7	30
3201057	Drill Core	10	23
3201058	Drill Core	9	24
3201059	Drill Core	5	24
3201060	Rock Pulp	I.S.	I.S.
3201061	Drill Core	10	30
3201062	Drill Core	5	21
3201063	Drill Core	8	16
3201064	Drill Core	8	23
3201065	Drill Core	5	17
3201066	Drill Core	6	20
3201067	Drill Core	11	15
3201068	Drill Core	4	14
3201069	Drill Core	9	18
3201070	Drill Core	10	21
3201071	Drill Core	<3	19
3201072	Drill Core	<3	13
3201073	Drill Core	6	11
3201074	Drill Core	6	11
3201075	Drill Core	5	7
3201076	Drill Core	5	4
3201077	Drill Core	<3	6
3201078	Drill Core	<3	5
3201079	Drill Core	<3	<2
3201080	Rock	<3	2
3201081	Drill Core	<3	<2
3201082	Drill Core	<3	<2
3201083	Drill Core	<3	3
3201084	Drill Core	<3	3
3201085	Drill Core	<3	<2



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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	WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	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	0.5	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	10	0.01	0.001
3201086	Drill Core	6.94	6.3	11.9	32.8	533	<0.5	34.6	1.4	115	0.24	<5	1.0	<0.5	887	6.0	8.0	<0.5	159	1.39	0.019
3201087	Drill Core	4.58	14.8	68.3	21.1	252	3.0	143.9	6.7	98	2.07	99	8.0	3.6	693	10.7	28.0	<0.5	344	1.98	0.975
3201088	Drill Core	5.12	41.3	87.5	20.3	244	2.6	172.7	8.3	82	1.85	124	11.8	3.6	577	13.8	18.6	<0.5	270	1.67	0.837
3201089	Drill Core	6.03	19.2	92.1	12.4	278	2.1	129.4	5.1	86	1.58	93	10.1	3.0	627	4.9	17.6	<0.5	270	1.89	0.924
3201090	Drill Core	4.31	34.3	76.4	25.7	306	1.5	115.1	4.8	63	1.27	47	5.8	1.9	286	12.2	18.5	<0.5	210	0.58	0.285
3201091	Drill Core	3.03	54.3	66.7	17.1	488	1.7	157.0	10.7	50	1.14	47	9.3	2.2	228	33.7	32.7	<0.5	227	0.40	0.185



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PHONE (604) 253-3158

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

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	Method Analyte Unit MDL	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		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	0.01	0.01	0.01
3201086	Drill Core	2.2	14.9	0.10	>5000	0.015	0.29	<0.01	0.08	<0.5	<0.05	1.6	<0.5	0.09	<5	<2	11.48	0.77	0.33	1.99	0.19
3201087	Drill Core	20.8	126.2	0.05	>5000	0.078	3.15	0.05	1.21	0.8	0.18	7.9	1.4	0.64	<5	19	67.83	7.38	3.08	2.82	0.13
3201088	Drill Core	19.6	89.6	0.07	2768	0.031	1.53	0.02	0.73	0.9	0.12	5.1	1.5	1.12	<5	19	71.40	7.08	2.77	2.40	0.21
3201089	Drill Core	17.0	76.8	0.06	4613	0.029	1.35	0.02	0.55	0.6	0.21	4.7	0.8	0.71	<5	17	75.65	6.22	2.48	2.74	0.20
3201090	Drill Core	11.9	38.0	0.04	1413	0.006	0.49	<0.01	0.19	<0.5	0.15	2.5	0.7	0.80	<5	16	82.33	4.93	1.98	0.83	0.28
3201091	Drill Core	12.7	30.1	0.04	982	0.005	0.55	<0.01	0.20	<0.5	0.14	2.4	1.3	0.75	<5	22	81.63	5.89	1.82	0.59	0.31



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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	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008	FA330
	Analyte	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	V2O5	TOT/C	TOT/S	C/ORG	C/GRA	CO2	S/S-	SO4	Au
	Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppb
	MDL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05	2
3201086	Drill Core	0.14	0.03	0.02	0.07	<0.01	49.85	<0.01	0.01	0.05	3.15	73.91	0.04	0.94	10.67	0.30	<0.02	2.31	0.12	31.65	5
3201087	Drill Core	2.07	0.02	0.32	2.12	0.03	6.85	<0.01	<0.01	0.02	5.05	98.58	0.09	3.00	1.98	2.72	0.27	<0.08	1.68	0.90	15
3201088	Drill Core	2.65	0.02	0.26	1.86	0.02	4.15	<0.01	<0.01	0.02	5.01	98.40	0.08	3.14	1.68	2.67	0.46	<0.08	1.50	0.56	14
3201089	Drill Core	2.15	0.02	0.22	2.12	0.02	3.10	0.01	<0.01	0.03	4.93	100.30	0.09	3.40	1.08	2.83	0.55	<0.08	0.95	0.37	15
3201090	Drill Core	1.54	0.02	0.16	0.65	0.01	0.62	<0.01	<0.01	0.03	5.59	99.05	0.14	4.38	0.86	3.32	1.05	<0.08	0.80	0.19	16
3201091	Drill Core	1.57	0.03	0.19	0.43	<0.01	0.46	<0.01	<0.01	0.05	5.61	98.66	0.21	4.05	0.81	3.15	0.88	<0.08	0.75	0.19	14



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Suite 1020, 800 Pender Street
Vancouver British Columbia V5C 2V6 Canada

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	Method Analyte Unit MDL	FA330	FA330
		Pt	Pd
		ppb	ppb
		3	2
3201086	Drill Core	<3	<2
3201087	Drill Core	6	21
3201088	Drill Core	4	15
3201089	Drill Core	7	13
3201090	Drill Core	7	12
3201091	Drill Core	6	12



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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

WHI19000338.1

	Method	WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	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	10	0.01	0.001
3201074	Drill Core	4.42	37.7	190.4	1007.6	1721	7.6	178.2	7.0	2186	3.61	96	6.5	1.8	1153	21.7	51.7	1.2	570	5.35	0.178
Pulp Duplicates																					
3201066	Drill Core	3.45	18.8	92.8	56.3	1017	4.2	155.8	5.4	255	1.72	146	7.4	2.5	409	14.1	37.7	0.6	471	1.55	0.604
REP 3201066	QC																				
REP 3201069	QC																				
REP 3201069	QC		30.0	73.7	14.9	938	1.7	174.3	5.6	202	1.58	158	6.1	2.3	429	15.3	20.4	<0.5	352	1.51	0.650
3201070	Drill Core	2.67	28.6	60.8	28.8	1509	2.3	224.0	8.2	279	1.47	137	7.5	2.1	508	26.5	28.6	<0.5	468	1.63	0.755
REP 3201070	QC																				
3201078	Drill Core	6.80	5.6	8.9	1.5	374	<0.5	30.0	<0.5	59	0.15	<5	0.8	<0.5	2023	4.9	3.5	<0.5	182	1.80	0.008
REP 3201078	QC																				
3201081	Drill Core	2.99	3.1	3.6	0.5	197	<0.5	11.8	<0.5	12	0.06	<5	0.5	<0.5	>10000	2.2	1.1	<0.5	95	0.58	0.014
REP 3201081	QC																				
3201083	Drill Core	6.23	4.4	4.1	0.8	190	<0.5	19.8	0.5	13	0.10	<5	0.7	<0.5	1741	2.1	1.8	<0.5	122	0.27	0.009
REP 3201083	QC																				
3201089	Drill Core	6.03	19.2	92.1	12.4	278	2.1	129.4	5.1	86	1.58	93	10.1	3.0	627	4.9	17.6	<0.5	270	1.89	0.924
REP 3201089	QC		19.6	88.3	12.4	275	2.0	127.6	4.7	88	1.60	93	9.9	3.0	624	5.3	17.7	<0.5	269	1.87	0.913
3201090	Drill Core	4.31	34.3	76.4	25.7	306	1.5	115.1	4.8	63	1.27	47	5.8	1.9	286	12.2	18.5	<0.5	210	0.58	0.285
REP 3201090	QC																				
3201091	Drill Core	3.03	54.3	66.7	17.1	488	1.7	157.0	10.7	50	1.14	47	9.3	2.2	228	33.7	32.7	<0.5	227	0.40	0.185
REP 3201091	QC																				
Core Reject Duplicates																					
3201069	Drill Core	5.19	27.8	68.0	14.1	925	1.6	167.2	5.1	203	1.63	151	5.7	2.2	400	14.3	18.8	<0.5	341	1.47	0.577
DUP 3201069	QC		29.1	73.4	14.8	957	1.8	178.8	5.6	200	1.56	155	6.1	2.3	431	14.2	19.4	<0.5	354	1.51	0.625
Reference Materials																					
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD GGC-10	Standard																				



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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	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		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	0.01	0.01	0.01
3201074	Drill Core	12.2	50.8	0.88	1268	0.089	1.81	0.02	0.47	4.5	0.34	4.6	0.9	1.62	<5	29	36.07	3.54	5.29	7.51	1.49
Pulp Duplicates																					
3201066	Drill Core	11.5	83.4	0.16	>5000	0.085	2.00	0.02	0.62	1.2	0.21	5.5	0.5	0.67	<5	14	74.54	5.74	2.51	2.28	0.32
REP 3201066	QC																74.61	5.76	2.51	2.26	0.33
REP 3201069	QC																				
REP 3201069	QC	11.0	43.5	0.13	>5000	0.021	0.75	<0.01	0.33	0.8	0.14	3.6	<0.5	1.01	<5	19					
3201070	Drill Core	9.4	55.3	0.07	>5000	0.063	1.45	0.02	0.44	1.2	0.15	4.2	<0.5	0.66	<5	17	78.24	4.52	2.13	2.36	0.16
REP 3201070	QC																78.22	4.52	2.23	2.38	0.15
3201078	Drill Core	1.4	7.0	0.49	>5000	0.011	0.15	<0.01	0.04	<0.5	<0.05	<0.5	<0.5	0.06	<5	<2	7.70	0.49	0.23	2.58	0.97
REP 3201078	QC																7.75	0.48	0.20	2.57	0.95
3201081	Drill Core	0.9	3.8	0.03	>5000	0.001	0.05	<0.01	0.01	<0.5	<0.05	0.6	<0.5	<0.05	<5	<2	5.45	0.25	0.06	0.82	0.07
REP 3201081	QC																				
3201083	Drill Core	1.1	4.1	0.01	>5000	0.002	0.07	<0.01	0.02	<0.5	<0.05	<0.5	<0.5	<0.05	<5	<2	4.38	0.36	0.12	0.39	0.05
REP 3201083	QC																				
3201089	Drill Core	17.0	76.8	0.06	4613	0.029	1.35	0.02	0.55	0.6	0.21	4.7	0.8	0.71	<5	17	75.65	6.22	2.48	2.74	0.20
REP 3201089	QC	17.1	74.5	0.06	4558	0.029	1.33	0.02	0.55	0.6	0.16	4.6	0.8	0.71	<5	15	75.47	6.20	2.46	2.73	0.20
3201090	Drill Core	11.9	38.0	0.04	1413	0.006	0.49	<0.01	0.19	<0.5	0.15	2.5	0.7	0.80	<5	16	82.33	4.93	1.98	0.83	0.28
REP 3201090	QC																				
3201091	Drill Core	12.7	30.1	0.04	982	0.005	0.55	<0.01	0.20	<0.5	0.14	2.4	1.3	0.75	<5	22	81.63	5.89	1.82	0.59	0.31
REP 3201091	QC																				
Core Reject Duplicates																					
3201069	Drill Core	10.5	43.1	0.11	>5000	0.020	0.74	<0.01	0.32	0.7	0.18	3.9	<0.5	1.00	<5	18	78.42	4.61	2.44	2.17	0.28
DUP 3201069	QC	11.3	44.2	0.12	>5000	0.021	0.78	<0.01	0.34	0.7	0.15	3.9	<0.5	0.98	<5	18	78.65	4.74	2.37	2.23	0.31
Reference Materials																					
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD GGC-10	Standard																				



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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	Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008	FA330				
	Analyte	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	V2O5	TOT/C	TOT/S	C/ORG	C/GRA	CO2	S/S-	SO4	Au			
	Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppb			
	MDL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05	2			
3201074	Drill Core	0.66	0.27	0.16	0.42	<0.01	22.10	0.01	0.11	0.17	7.93	88.38	0.11	2.60	6.82	0.37	<0.02	8.14	3.21	10.83	7			
Pulp Duplicates																								
3201066	Drill Core	1.52	0.05	0.24	1.35	0.02	5.19	<0.01	<0.01	0.10	3.94	98.48	0.11	2.48	1.51	1.99	0.31	0.66	1.23	0.85	16			
REP 3201066	QC	1.53	0.06	0.23	1.33	0.01	5.24	<0.01	<0.01	0.10	3.94	98.58	0.10											
REP 3201069	QC	1.77																						
REP 3201069	QC																							
3201070	Drill Core	1.35	0.05	0.16	1.69	<0.01	3.84	<0.01	<0.01	0.15	4.07	99.28	0.12	2.75	1.12	2.17	0.49	0.33	0.88	0.73	15			
REP 3201070	QC	1.35	0.06	0.17	1.73	<0.01	3.82	<0.01	<0.01	0.15	4.07	99.40	0.12								0.51	0.74		
3201078	Drill Core	0.06	0.03	<0.01	0.04	<0.01	51.03	<0.01	<0.01	0.04	4.83	73.95	0.04	1.42	11.07	0.21	<0.02	4.40	0.30	32.31	5			
REP 3201078	QC	0.06	0.02	<0.01	0.04	<0.01	51.05	<0.01	<0.01	0.04	4.83	73.95	0.03											
3201081	Drill Core	0.02	0.02	<0.01	0.05	<0.01	54.23	<0.01	<0.01	0.02	3.79	71.08	0.01	1.09	11.32	0.18	<0.02	3.30	0.45	32.61	6			
REP 3201081	QC													1.13	10.98							6		
3201083	Drill Core	0.06	0.02	<0.01	0.05	<0.01	56.84	<0.01	<0.01	0.02	3.49	72.38	0.02	1.04	11.17	0.17	<0.02	3.16	<0.05	33.81	7			
REP 3201083	QC																		3.12					
3201089	Drill Core	2.15	0.02	0.22	2.12	0.02	3.10	0.01	<0.01	0.03	4.93	100.30	0.09	3.40	1.08	2.83	0.55	<0.08	0.95	0.37	15			
REP 3201089	QC	2.15	0.02	0.22	2.16	0.01	3.13	<0.01	<0.01	0.03	4.93	100.12	0.09											
3201090	Drill Core	1.54	0.02	0.16	0.65	0.01	0.62	<0.01	<0.01	0.03	5.59	99.05	0.14	4.38	0.86	3.32	1.05	<0.08	0.80	0.19	16			
REP 3201090	QC																				0.20			
3201091	Drill Core	1.57	0.03	0.19	0.43	<0.01	0.46	<0.01	<0.01	0.05	5.61	98.66	0.21	4.05	0.81	3.15	0.88	<0.08	0.75	0.19	14			
REP 3201091	QC													4.02	0.84						<0.08			
Core Reject Duplicates																								
3201069	Drill Core	1.77	0.04	0.18	1.46	0.01	2.21	<0.01	<0.01	0.09	5.10	99.11	0.13	3.63	1.14	1.86	1.67	0.38	0.91	0.69	14			
DUP 3201069	QC	1.82	0.05	0.18	1.46	<0.01	2.27	<0.01	<0.01	0.10	5.17	99.69	0.14	3.76	1.16	1.90	1.74	0.44	0.91	0.75	12			
Reference Materials																								
STD COO1	Standard																		2.39					
STD COO1	Standard																		2.33					
STD COO1	Standard																		2.40					
STD COO1	Standard																		2.42					
STD GGC-10	Standard	4.82																						



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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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	Method Analyte Unit MDL	FA330	FA330
		Pt	Pd
		ppb	ppb
		3	2
3201074	Drill Core	6	11
Pulp Duplicates			
3201066	Drill Core	6	20
REP 3201066	QC		
REP 3201069	QC		
REP 3201069	QC		
3201070	Drill Core	10	21
REP 3201070	QC		
3201078	Drill Core	<3	5
REP 3201078	QC		
3201081	Drill Core	<3	<2
REP 3201081	QC	<3	5
3201083	Drill Core	<3	3
REP 3201083	QC		
3201089	Drill Core	7	13
REP 3201089	QC		
3201090	Drill Core	7	12
REP 3201090	QC		
3201091	Drill Core	6	12
REP 3201091	QC		
Core Reject Duplicates			
3201069	Drill Core	9	18
DUP 3201069	QC	6	22
Reference Materials			
STD COO1	Standard		
STD COO1	Standard		
STD COO1	Standard		
STD COO1	Standard		
STD GGC-10	Standard		



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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		WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	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	10	0.01
STD GGC-10	Standard																			
STD GGC-10	Standard																			
STD GGC-10	Standard																			
STD GGC-10	Standard																			
STD GGC-10	Standard																			
STD GS311-1	Standard																			
STD GS311-1	Standard																			
STD GS311-1	Standard																			
STD GS910-4	Standard																			
STD GS910-4	Standard																			
STD GS910-4	Standard																			
STD OREAS133B(D)	Standard																			
STD OREAS135	Standard		8.8	307.3	16962.0	27815	58.9	35.4	30.7	3943	8.84	956	9.0	10.5	21	68.2	38.8	4.9	40	1.81
STD OREAS133B(D)	Standard																			0.091
STD OREAS133B(D)	Standard																			
STD OREAS605	Standard		4.9	50020.5	839.3	2175	>1000	1546.2	98.2	88	3.62	1711	1.0	2.8	42	14.0	287.3	19.3	<10	0.18
STD OREAS605	Standard		5.0	47555.4	859.8	2157	999.6	1532.0	100.1	78	3.59	1668	0.9	2.4	45	14.5	275.2	18.7	<10	0.17
STD OREAS72B	Standard																			0.012
STD OREAS72B	Standard																			0.014
STD OREAS72B	Standard																			
STD OREAS72B	Standard																			
STD OREAS927-AR	Standard		1.0	10726.7	222.1	719	4.7	31.1	29.5	1096	8.12	11	1.6	13.1	12	0.9	1.2	68.2	39	0.30
STD PD05	Standard																			0.056
STD PD05	Standard																			
STD PG04	Standard																			
STD PG04	Standard																			
STD RTS-3A	Standard																			
STD RTS-3A	Standard																			
STD RTS-3A	Standard																			
STD SY-4(D)	Standard																			



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PHONE (604) 253-3158

Client:

Fireweed Zinc Ltd.

Suite 1020, 800 Pender Street

Vancouver British Columbia V5C 2V6 Canada

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		AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725	
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		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	0.01	0.01	0.01
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD OREAS133B(D)	Standard	34.88 7.27 11.63 5.34 3.83																			
STD OREAS135	Standard	42.0	23.5	0.84	348	0.028	1.17	0.02	0.59	3.2	1.16	4.7	6.5	7.10	<5	<2					
STD OREAS133B(D)	Standard	34.44 6.83 11.51 5.28 3.79																			
STD OREAS133B(D)	Standard	34.52 7.19 11.49 5.26 3.82																			
STD OREAS605	Standard	7.3	29.3	0.03	147	0.012	0.79	0.03	0.14	6.6	1.67	2.3	16.0	7.92	7	79					
STD OREAS605	Standard	7.2	28.6	0.02	207	0.010	0.74	0.03	0.14	7.0	1.83	1.7	16.3	7.76	6	77					
STD OREAS72B	Standard	51.12 8.89 10.01 3.96 16.09																			
STD OREAS72B	Standard	51.13 8.85 9.96 3.96 16.08																			
STD OREAS72B	Standard	51.15 8.87 10.02 3.98 16.05																			
STD OREAS927-AR	Standard	25.6	42.4	1.93	47	0.086	3.22	<0.01	0.26	5.7	0.10	4.6	<0.5	1.81	9	15					
STD PD05	Standard																				
STD PD05	Standard																				
STD PG04	Standard																				
STD PG04	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD SY-4(D)	Standard	49.99 20.68 6.23 8.00 0.53																			



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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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		LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008	FA330		
		K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	V2O5	TOT/C	TOT/S	C/ORG	C/GRA	CO2	S/S-	SO4	Au	
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppb		
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05	2	
STD GGC-10	Standard																4.75					
STD GGC-10	Standard																4.83					
STD GGC-10	Standard																4.55					
STD GGC-10	Standard																4.76					
STD GGC-10	Standard																4.89					
STD GS311-1	Standard													1.04	2.25							
STD GS311-1	Standard													1.00	2.19							
STD GS311-1	Standard													0.98	2.30							
STD GS910-4	Standard													2.77	8.18							
STD GS910-4	Standard													2.72	7.74							
STD GS910-4	Standard													2.66	8.30							
STD OREAS133B(D)	Standard	3.48	0.16	0.22	0.13	<0.01	0.07	0.06	5.06	11.36	13.03	99.95	<0.01									
STD OREAS135	Standard																					
STD OREAS133B(D)	Standard	3.43	0.16	0.22	0.12	<0.01	0.07	0.06	5.07	11.35	13.03	98.73	0.01									
STD OREAS133B(D)	Standard	3.45	0.17	0.23	0.12	<0.01	0.07	0.06	5.07	11.36	13.03	99.23	<0.01									
STD OREAS605	Standard																					
STD OREAS605	Standard																					
STD OREAS72B	Standard	1.32	0.15	0.33	0.05	0.15	0.03	0.02	<0.01	<0.01	5.12	98.58	0.01									
STD OREAS72B	Standard	1.32	0.14	0.35	0.06	0.15	0.03	0.02	<0.01	<0.01	5.12	98.44	0.01									
STD OREAS72B	Standard	1.32	0.15	0.35	0.05	0.14	0.03	0.02	<0.01	<0.01	5.12	98.57	0.02									
STD OREAS927-AR	Standard																					
STD PD05	Standard																					
STD PD05	Standard																					
STD PG04	Standard																					
STD PG04	Standard																					
STD RTS-3A	Standard																					
STD RTS-3A	Standard																					
STD RTS-3A	Standard																					
STD SY-4(D)	Standard	1.67	0.11	0.29	0.15	<0.01	0.04	<0.01	<0.01	0.01	4.56	99.42	<0.01									



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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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		FA330 Pt ppb 3	FA330 Pd ppb 2
STD GGC-10	Standard		
STD GGC-10	Standard		
STD GGC-10	Standard		
STD GGC-10	Standard		
STD GGC-10	Standard		
STD GS311-1	Standard		
STD GS311-1	Standard		
STD GS311-1	Standard		
STD GS910-4	Standard		
STD GS910-4	Standard		
STD GS910-4	Standard		
STD OREAS133B(D)	Standard		
STD OREAS135	Standard		
STD OREAS133B(D)	Standard		
STD OREAS133B(D)	Standard		
STD OREAS605	Standard		
STD OREAS605	Standard		
STD OREAS72B	Standard		
STD OREAS72B	Standard		
STD OREAS72B	Standard		
STD OREAS927-AR	Standard		
STD PD05	Standard	437	620
STD PD05	Standard	454	619
STD PG04	Standard	907	1229
STD PG04	Standard	877	1163
STD RTS-3A	Standard		
STD RTS-3A	Standard		
STD RTS-3A	Standard		
STD SY-4(D)	Standard		



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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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		WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	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	0.5	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	10	0.01	0.001
STD SY-4(D)	Standard																				
STD SY-4(D)	Standard																				
STD PD05 Expected																					
STD PG04 Expected																					
STD OREAS135 Expected		8.25	294	17000	28000	55.2	36	29.6	3960	8.97	937	9.4	10.4	26.5	67	38	5.1	33.4	1.83	0.086	
STD OREAS605 Expected		4.75	49800	856	2170	984	1568	96	86	3.75	1674	0.92		49	13.6	307	19	7.8	0.182	0.0105	
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	34	0.3	0.054	
STD SY-4(D) Expected																					
STD OREAS72B Expected																					
STD OREAS133B(D) Expected																					
STD RTS-3A Expected																					
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD GGC-10 Expected																					
STD COO1 Expected																					
SI BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.5	<0.5	1.8	<5	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<10	<0.01	<0.001	
BLK	Blank																				
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	<10	<0.01	<0.001	
BLK	Blank																				
SI BLK	Blank																				
SI BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				



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Client:

Fireweed Zinc Ltd.

Suite 1020, 800 Pender Street

Vancouver British Columbia V5C 2V6 Canada

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		AQ270 La ppm 0.5	AQ270 Cr ppm 0.5	AQ270 Mg % 0.01	AQ270 Ba ppm 5	AQ270 Ti % 0.001	AQ270 Al % 0.01	AQ270 Na % 0.01	AQ270 K % 0.01	AQ270 W ppm 0.5	AQ270 Hg ppm 0.05	AQ270 Sc ppm 0.5	AQ270 Ti ppm 0.5	AQ270 S % 0.05	AQ270 Ga ppm 5	AQ270 Se ppm 2	LF725 SiO2 % 0.01	LF725 Al2O3 % 0.01	LF725 Fe2O3 % 0.01	LF725 CaO % 0.01	LF725 MgO % 0.01
STD SY-4(D)	Standard																50.07	20.69	6.26	8.02	0.53
STD SY-4(D)	Standard																50.03	20.77	6.22	8.03	0.54
STD PD05 Expected																					
STD PG04 Expected																					
STD OREAS135 Expected		39.8	22	0.833	366	0.026	1.09	0.017	0.487	2.93	1.21	3.51	6.27	7.08	4.8						
STD OREAS605 Expected		7.5	27.5	0.0289	160	0.01	0.73	0.0328	0.134	7.1	1.7	1.05	15.9	7.86	6.7	79					
STD OREAS927-AR Expected		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 SY-4(D) Expected																	49.9	20.69	6.21	8.05	0.54
STD OREAS72B Expected																	51.16	8.97	9.724	3.96	15.933
STD OREAS133B(D) Expected																	33.83	6.91	11.67	5.4	3.73
STD RTS-3A Expected																					
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD GGC-10 Expected																					
STD COO1 Expected																					
SI BLK	Blank																98.36	0.32	0.02	<0.01	0.01
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<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					
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<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					
BLK	Blank																				
SI BLK	Blank																98.29	0.31	<0.01	0.01	0.01
SI BLK	Blank																98.81	0.32	<0.01	0.02	0.02
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				



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		LF725 K2O %	LF725 MnO %	LF725 TiO2 %	LF725 P2O5 %	LF725 Cr2O3 %	LF725 Ba %	LF725 Cu %	LF725 Pb %	LF725 Zn %	LF725 LOI %	LF725 SUM_T %	LF725 V2O5 %	TC000 TOT/C %	TC000 TOT/S %	TC005 C/ORG %	TC005 C/GRA %	TC006 CO2 %	TC008 S/S- %	TC008 SO4 %	FA330 Au ppb
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05	2
STD SY-4(D)	Standard	1.67	0.11	0.29	0.15	<0.01	0.04	<0.01	<0.01	0.01	4.56	99.62	<0.01								
STD SY-4(D)	Standard	1.68	0.11	0.30	0.14	<0.01	0.04	<0.01	<0.01	<0.01	4.56	99.56	<0.01								
STD PD05 Expected																					519
STD PG04 Expected																					996
STD OREAS135 Expected																					
STD OREAS605 Expected																					
STD OREAS927-AR Expected																					
STD SY-4(D) Expected		1.66	0.108	0.287	0.131		0.0345				4.56										
STD OREAS72B Expected		1.313	0.13	0.355	0.061	0.142	0.0335	0.0193			5.12										
STD OREAS133B(D) Expected							0.08	0.032	5.06	11.35											
STD RTS-3A Expected																				3.3	
STD GS311-1 Expected														1.02	2.35						
STD GS910-4 Expected														2.65	8.27						
STD GGC-10 Expected																		4.79			
STD COO1 Expected																			2.37		
SI BLK	Blank	<0.01	0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.00	98.72	<0.01								
BLK	Blank																				5
BLK	Blank																				5
BLK	Blank													<0.02	<0.02						
BLK	Blank																				
BLK	Blank																	<0.02			
BLK	Blank																	<0.02			
BLK	Blank																				
BLK	Blank													<0.02	<0.02						
SI BLK	Blank	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	98.61	<0.01								
SI BLK	Blank	<0.01	0.02	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	99.17	<0.01								
BLK	Blank																			<0.05	
BLK	Blank																	<0.08			
BLK	Blank																			<0.05	



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		FA330 Pt ppb 3	FA330 Pd ppb 2
STD SY-4(D)	Standard		
STD SY-4(D)	Standard		
STD PD05 Expected		430	596
STD PG04 Expected		910	1210
STD OREAS135 Expected			
STD OREAS605 Expected			
STD OREAS927-AR Expected			
STD SY-4(D) Expected			
STD OREAS72B Expected			
STD OREAS133B(D) Expected			
STD RTS-3A Expected			
STD GS311-1 Expected			
STD GS910-4 Expected			
STD GGC-10 Expected			
STD COO1 Expected			
SI BLK	Blank		
BLK	Blank	<3	<2
BLK	Blank	<3	<2
BLK	Blank		
BLK	Blank		
BLK	Blank		
BLK	Blank		
BLK	Blank		
BLK	Blank		
SI BLK	Blank		
SI BLK	Blank		
BLK	Blank		
BLK	Blank		
BLK	Blank		



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		WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	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	0.5	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	10	0.01	0.001
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank		1.1	5.8	1.4	34	<0.5	0.9	3.4	500	1.84	<5	<0.5	1.7	24	<0.5	<0.5	<0.5	24	0.62	0.042
ROCK-WHI	Prep Blank		1.0	3.0	1.3	37	<0.5	1.6	3.8	571	1.88	<5	<0.5	2.2	22	<0.5	<0.5	<0.5	26	0.68	0.049



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		AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725	
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		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	0.01	0.01	0.01
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank	6.2	2.9	0.39	58	0.097	0.84	0.08	0.08	<0.5	<0.05	3.3	<0.5	<0.05	<5	<2	70.74	13.83	3.17	2.25	0.86
ROCK-WHI	Prep Blank	6.5	4.1	0.42	62	0.097	0.88	0.08	0.09	<0.5	<0.05	3.5	<0.5	<0.05	<5	<2	70.79	14.04	3.33	2.31	0.93



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		LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008	FA330		
		K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	V2O5	TOT/C	TOT/S	C/ORG	C/GRA	CO2	S/S-	SO4	Au		
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppb		
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05	2		
BLK	Blank														<0.02	<0.02							
BLK	Blank														<0.02								
BLK	Blank														<0.08								
Prep Wash																							
ROCK-WHI	Prep Blank	1.91	0.09	0.36	0.08	<0.01	0.07	<0.01	<0.01	<0.01	0.77	98.74	<0.01	0.08	<0.02	<0.02	<0.02	0.24	<0.05	0.12	4		
ROCK-WHI	Prep Blank	1.93	0.10	0.34	0.09	<0.01	0.08	<0.01	<0.01	<0.01	0.86	99.43	0.01	0.10	<0.02	<0.02	<0.02	0.33	<0.05	0.15	6		



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Client:

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		FA330	FA330
		Pt	Pd
		ppb	ppb
		3	2
BLK	Blank		
BLK	Blank		
BLK	Blank		
Prep Wash			
ROCK-WHI	Prep Blank	<3	12
ROCK-WHI	Prep Blank	<3	9