



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 01, 2019
Report Date: August 30, 2019
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CERTIFICATE OF ANALYSIS

WHI19000294.1

CLIENT JOB INFORMATION

Project: MacMillan Pass
Shipment ID: FWZ19-BV-019
P.O. Number
Number of Samples: 26

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.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	25	Crush, split and pulverize 500g rock to 200 mesh			WHI
SLBHP	1	Sort, label and box pulps			WHI
CRUBW	25	Extra clean rock wash between samples in crusher			WHI
PULSW	25	Extra Wash with Silica between each sample			WHI
AQ270	26	1:1:1 Aqua Regia digestion ICP-ES/ICP-MS analysis	1	Completed	VAN
LF725	26	Li2B4O7/LiBO2 fusion, analysis by XRF		Completed	VAN
TC000	26	Total C/S Analysis by Leco	0.1	Completed	VAN
TC007	26	Graphite and Organic C by Leco After Ignition	0.1	Completed	VAN
TC006	26	Inorganic Carbon	0.2	Completed	VAN
TC009	26	Sulfide and Sulfate	0.1	Completed	VAN
SHP01	26	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS

V205 from LF725 is Qualitative Data only.

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

CC:



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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CERTIFICATE OF ANALYSIS

WHI19000294.1

	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
3200989	Drill Core	7.05	19.8	62.3	83.1	478	0.6	82.1	9.3	407	4.02	36	2.6	4.8	46	0.5	11.8	<0.5	69	0.44	0.090
3200990	Drill Core	6.89	19.8	262.3	77.7	699	0.5	83.3	7.8	1026	3.78	33	4.0	4.2	27	0.8	12.8	<0.5	86	0.19	0.125
3200991	Drill Core	6.87	20.0	146.3	352.2	1729	1.5	84.6	5.4	258	4.30	47	3.2	4.0	30	4.3	19.6	<0.5	89	0.22	0.105
3200992	Drill Core	5.01	14.3	57.5	483.8	2272	1.5	66.8	5.4	509	4.39	70	2.7	5.9	51	6.9	15.7	<0.5	93	0.23	0.125
3200993	Drill Core	4.19	19.5	76.5	730.5	17353	1.6	73.4	4.8	271	4.68	64	3.1	3.6	48	30.8	20.8	<0.5	129	0.21	0.101
3200994	Drill Core	3.39	16.6	60.2	3832.5	34134	1.8	59.8	4.4	266	3.13	39	3.0	3.2	57	51.7	16.1	<0.5	195	0.20	0.096
3200995	Drill Core	4.29	16.0	57.6	5888.3	37290	1.7	60.7	4.6	242	3.45	50	2.5	3.1	59	59.5	11.6	<0.5	359	0.14	0.073
3200996	Drill Core	4.46	15.6	63.9	6727.5	45365	2.1	61.6	5.7	118	3.06	58	2.4	3.3	80	59.8	9.7	<0.5	502	0.22	0.119
3200997	Drill Core	4.18	15.6	67.3	11624.8	79376	2.4	48.5	5.4	278	2.15	58	2.4	4.2	46	56.4	5.3	<0.5	523	0.07	0.081
3200998	Drill Core	1.68	10.6	55.6	24954.7	115958	3.2	43.6	4.6	615	2.04	30	4.0	2.7	70	125.4	8.5	<0.5	312	0.01	0.098
3200999	Drill Core	1.78	7.0	35.7	4680.9	72118	0.7	40.3	2.8	111	0.63	22	3.8	1.2	76	125.2	4.0	<0.5	175	0.01	0.083
3201000	Rock	1.00	1.8	54.3	7.5	62	<0.5	4.5	10.6	447	2.94	<5	0.9	3.0	104	<0.5	<0.5	<0.5	103	1.15	0.067
3201001	Drill Core	2.48	15.9	58.5	2974.6	81916	2.1	57.8	4.5	237	2.07	67	2.2	3.6	89	35.8	8.2	<0.5	493	0.11	0.084
3201002	Drill Core	2.46	17.7	63.4	3575.2	88957	2.3	62.7	5.6	239	2.34	68	2.7	3.9	85	42.0	8.8	<0.5	520	0.11	0.098
3201003	Drill Core	4.38	19.2	50.5	284.8	20649	1.0	65.3	5.1	116	2.06	33	2.8	4.2	135	11.9	6.1	<0.5	473	0.26	0.134
3201004	Drill Core	4.49	16.0	64.3	293.5	26893	1.2	64.5	5.8	143	2.58	29	2.7	4.1	123	16.5	8.4	<0.5	299	0.24	0.100
3201005	Drill Core	5.79	17.2	73.9	320.4	25674	1.8	63.5	6.1	184	2.82	34	2.8	3.9	84	16.2	12.8	<0.5	144	0.22	0.098
3201006	Drill Core	4.51	16.2	44.7	154.6	1889	0.9	62.4	5.1	357	2.63	30	2.8	3.6	84	1.4	9.0	<0.5	112	0.26	0.117
3201007	Drill Core	5.85	17.7	45.4	103.4	710	0.7	64.5	4.9	1115	3.41	36	3.2	3.7	79	0.7	10.4	<0.5	118	0.25	0.109
3201008	Drill Core	5.77	17.5	54.7	91.1	130	1.0	70.9	4.6	383	2.67	32	3.0	3.8	96	<0.5	9.0	<0.5	103	0.27	0.117
3201009	Drill Core	5.37	17.8	71.5	114.2	576	1.1	75.2	6.2	930	4.81	36	3.4	3.7	94	1.3	10.5	<0.5	101	0.26	0.108
3201010	Drill Core	7.93	17.8	76.0	112.0	102	1.2	79.4	5.3	517	4.02	35	3.3	4.1	88	<0.5	11.8	<0.5	94	0.26	0.125
3201011	Drill Core	7.35	16.4	73.1	86.6	122	1.2	78.6	6.7	361	2.66	27	2.6	4.8	60	<0.5	12.1	<0.5	65	0.20	0.108
3201012	Drill Core	6.85	8.5	95.1	55.3	300	1.1	86.0	10.5	586	5.81	26	1.9	5.6	54	1.0	10.2	<0.5	43	0.05	0.078
3201013	Drill Core	7.01	4.6	49.7	48.3	60	1.0	59.3	11.6	2026	8.83	19	1.6	5.5	58	1.8	9.7	<0.5	44	0.04	0.062
3201055	Rock Pulp	0.06	2.8	222.3	18320.5	29891	33.7	27.3	21.2	1802	5.42	82	1.7	8.0	22	90.5	48.8	<0.5	19	5.38	0.046



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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
3200989	Drill Core	9.2	13.5	0.13	821	0.003	1.90	<0.01	0.14	<0.5	<0.05	3.3	0.8	2.74	<5	4	68.50	8.58	6.08	0.64	0.47
3200990	Drill Core	9.4	18.3	0.02	1170	0.003	2.26	<0.01	0.11	0.7	0.06	5.9	0.9	1.71	<5	4	68.19	8.39	5.79	0.30	0.22
3200991	Drill Core	8.1	17.5	0.01	476	0.003	2.26	<0.01	0.11	<0.5	0.42	3.2	7.4	3.37	<5	7	69.24	7.44	6.50	0.34	0.17
3200992	Drill Core	9.1	14.7	<0.01	686	0.005	2.92	<0.01	0.09	<0.5	0.44	4.5	6.9	2.87	<5	4	65.35	8.23	6.64	0.35	0.11
3200993	Drill Core	9.9	23.2	0.01	405	0.004	2.56	<0.01	0.08	<0.5	2.72	4.6	5.4	4.23	<5	7	66.59	6.35	6.92	0.32	0.10
3200994	Drill Core	11.2	32.9	0.01	636	0.008	2.74	<0.01	0.09	<0.5	4.81	4.5	3.9	2.97	7	12	69.56	5.75	4.67	0.29	0.06
3200995	Drill Core	9.8	58.9	<0.01	532	0.068	2.69	<0.01	0.08	<0.5	5.55	4.6	3.6	3.52	9	9	68.50	5.19	5.01	0.20	0.04
3200996	Drill Core	11.0	89.0	<0.01	481	0.130	3.03	<0.01	0.09	<0.5	7.33	4.6	4.4	3.61	11	7	67.66	5.48	4.49	0.32	<0.01
3200997	Drill Core	16.2	94.6	<0.01	447	0.156	2.59	<0.01	0.03	0.5	14.65	4.8	2.0	4.09	9	7	66.70	4.98	3.47	0.13	<0.01
3200998	Drill Core	7.8	60.5	<0.01	198	0.095	0.71	<0.01	<0.01	1.1	16.10	2.7	0.9	6.45	6	6	42.80	2.87	2.96	0.04	<0.01
3200999	Drill Core	3.8	36.6	<0.01	351	0.050	0.46	<0.01	<0.01	0.6	10.95	2.8	0.9	3.91	<5	3	37.17	2.42	0.96	0.03	<0.01
3201000	Rock	7.4	6.9	0.88	230	0.195	2.11	0.28	0.32	0.5	<0.05	3.8	<0.5	<0.05	6	<2	60.56	16.84	6.32	6.30	2.84
3201001	Drill Core	13.6	89.8	<0.01	478	0.153	2.84	<0.01	0.04	<0.5	23.14	4.0	2.7	4.26	10	10	61.38	5.44	3.14	0.16	<0.01
3201002	Drill Core	15.4	93.9	<0.01	341	0.158	2.83	<0.01	0.04	<0.5	26.57	5.1	3.0	4.72	11	11	59.24	5.50	3.46	0.17	<0.01
3201003	Drill Core	17.7	92.6	<0.01	3651	0.117	4.08	0.01	0.12	<0.5	5.13	4.9	4.8	0.81	11	5	68.77	7.46	3.06	0.40	0.01
3201004	Drill Core	13.2	59.6	0.02	1214	0.043	3.62	0.01	0.13	<0.5	6.13	5.1	5.6	1.85	9	5	68.39	6.88	3.80	0.36	0.06
3201005	Drill Core	10.8	27.7	0.02	1075	0.004	3.05	<0.01	0.11	<0.5	5.00	5.6	9.3	2.47	6	7	68.33	6.79	4.29	0.33	0.14
3201006	Drill Core	11.8	21.8	0.01	2692	0.003	3.00	<0.01	0.12	<0.5	0.51	4.7	2.4	1.14	6	5	70.70	7.36	3.94	0.38	0.16
3201007	Drill Core	11.9	23.0	0.02	1487	0.004	2.64	<0.01	0.13	0.9	0.30	5.4	1.1	1.55	<5	4	70.83	7.14	5.24	0.39	0.17
3201008	Drill Core	12.8	20.8	0.02	1818	0.004	2.42	<0.01	0.16	<0.5	0.19	3.6	1.0	1.46	<5	5	72.66	6.99	4.00	0.40	0.18
3201009	Drill Core	11.8	18.3	0.02	637	0.003	2.06	<0.01	0.12	<0.5	0.34	3.7	1.1	3.36	<5	11	69.15	7.01	7.08	0.38	0.21
3201010	Drill Core	13.8	18.5	0.02	564	0.004	2.04	<0.01	0.13	<0.5	0.21	3.9	0.9	3.34	<5	8	70.62	7.21	6.13	0.40	0.22
3201011	Drill Core	19.2	15.3	0.02	1388	0.003	1.95	<0.01	0.13	<0.5	0.20	2.6	0.8	1.69	<5	6	71.10	8.47	4.21	0.31	0.27
3201012	Drill Core	16.9	10.6	0.02	370	0.003	1.05	<0.01	0.14	<0.5	0.24	2.0	0.6	5.08	<5	4	68.32	8.82	8.64	0.09	0.34
3201013	Drill Core	17.0	10.1	0.03	215	0.004	0.62	<0.01	0.19	<0.5	0.20	2.3	<0.5	8.51	<5	2	62.99	8.14	12.96	0.08	0.38
3201055	Rock Pulp	25.3	14.4	2.86	131	0.017	0.98	0.01	0.69	1.0	1.05	3.1	28.3	4.86	<5	<2	43.62	8.58	8.27	7.41	5.36



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	Method Analyte Unit MDL	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008
		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
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		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
3200989	Drill Core	1.31	0.08	0.46	0.24	0.01	4.58	<0.01	0.02	0.05	7.43	99.02	0.11	2.89	3.79	1.84	0.90	0.56	3.39	1.19
3200990	Drill Core	0.97	0.16	0.41	0.32	0.01	5.31	0.02	0.02	0.08	8.10	98.95	0.11	2.82	2.85	1.49	1.10	0.85	2.15	2.10
3200991	Drill Core	0.76	0.05	0.37	0.27	<0.01	5.20	<0.01	0.04	0.18	7.71	98.96	0.12	3.02	4.69	1.67	1.30	0.18	4.40	0.87
3200992	Drill Core	0.57	0.09	0.33	0.31	0.01	7.44	<0.01	0.06	0.23	8.22	98.88	0.11	2.70	4.56	1.16	1.43	0.41	4.01	1.66
3200993	Drill Core	0.40	0.06	0.31	0.25	0.01	6.14	<0.01	0.08	1.77	8.13	98.59	0.13	2.89	5.70	1.22	1.59	0.25	4.64	3.20
3200994	Drill Core	0.29	0.05	0.31	0.23	<0.01	6.32	<0.01	0.40	3.33	6.64	99.54	0.12	2.91	4.64	1.14	1.70	0.29	3.10	4.63
3200995	Drill Core	0.14	0.05	0.30	0.18	<0.01	6.28	<0.01	0.59	3.57	6.67	98.38	0.11	2.84	5.20	1.13	1.63	0.26	3.38	5.45
3200996	Drill Core	0.09	0.04	0.30	0.27	0.01	7.02	<0.01	0.69	4.40	6.52	99.30	0.11	3.17	5.43	1.21	1.92	0.12	3.32	6.32
3200997	Drill Core	0.02	0.06	0.32	0.22	<0.01	6.07	<0.01	1.18	7.85	6.62	100.41	0.11	2.64	5.03	1.03	1.53	0.31	1.26	11.31
3200998	Drill Core	<0.01	0.10	0.18	0.24	<0.01	16.19	<0.01	2.42	11.18	7.88	91.72	0.06	0.88	10.28	0.47	0.23	0.68	0.63	28.96
3200999	Drill Core	<0.01	0.04	0.11	0.24	<0.01	27.21	<0.01	0.47	6.93	4.55	85.07	0.03	0.11	10.34	0.08	0.03	<0.08	1.33	27.05
3201000	Rock	1.48	0.14	0.52	0.14	<0.01	0.08	<0.01	0.01	<0.01	0.82	99.40	0.03	0.03	<0.02	<0.02	<0.02	<0.08	<0.05	0.21
3201001	Drill Core	0.02	0.05	0.28	0.21	<0.01	9.55	<0.01	0.31	8.05	6.53	98.33	0.10	2.25	6.47	1.08	1.13	0.15	1.99	13.45
3201002	Drill Core	0.02	0.06	0.28	0.21	<0.01	9.57	<0.01	0.37	8.89	7.15	98.32	0.10	2.35	7.03	1.18	1.13	0.14	2.16	14.60
3201003	Drill Core	0.13	0.04	0.38	0.31	0.02	9.70	<0.01	0.05	2.06	5.11	99.19	0.12	3.17	3.09	2.18	0.98	<0.08	2.22	2.62
3201004	Drill Core	0.23	0.04	0.35	0.28	0.02	8.38	<0.01	0.05	2.60	5.65	98.77	0.11	2.88	3.99	1.88	0.99	<0.08	2.91	3.25
3201005	Drill Core	0.44	0.05	0.35	0.25	0.01	7.16	<0.01	0.04	2.63	6.95	99.29	0.11	3.14	4.34	2.08	1.03	0.12	3.32	3.08
3201006	Drill Core	0.62	0.07	0.38	0.28	0.02	7.01	<0.01	0.02	0.19	6.41	98.41	0.14	3.54	2.79	2.42	1.08	0.16	2.65	0.44
3201007	Drill Core	0.72	0.16	0.39	0.28	0.01	6.08	<0.01	0.01	0.07	6.95	99.19	0.14	3.67	3.03	2.65	0.91	0.40	2.87	0.50
3201008	Drill Core	0.80	0.07	0.36	0.29	0.02	5.56	<0.01	0.01	0.01	6.63	98.66	0.14	3.93	2.75	1.61	2.28	0.17	2.65	0.31
3201009	Drill Core	0.82	0.14	0.36	0.28	0.02	4.95	<0.01	0.02	0.06	8.11	99.23	0.14	3.36	4.17	1.44	1.77	0.56	3.89	0.81
3201010	Drill Core	0.99	0.08	0.37	0.30	<0.01	4.80	<0.01	0.02	<0.01	7.92	99.67	0.14	3.84	4.43	1.91	1.88	0.20	4.28	0.43
3201011	Drill Core	1.17	0.07	0.45	0.25	0.01	4.93	<0.01	<0.01	0.01	6.63	98.50	0.12	2.75	2.87	1.13	1.56	0.22	2.58	0.88
3201012	Drill Core	1.57	0.10	0.49	0.25	0.01	2.77	<0.01	<0.01	0.03	7.61	99.42	0.08	1.62	5.61	0.76	0.77	0.32	5.19	1.25
3201013	Drill Core	1.81	0.27	0.46	0.18	0.01	2.36	<0.01	<0.01	<0.01	8.91	98.89	0.06	1.33	8.78	0.69	0.41	0.88	8.30	1.42
3201055	Rock Pulp	4.18	0.26	0.29	0.12	<0.01	0.09	0.02	1.83	3.11	10.01	94.26	<0.01	3.35	5.07	0.51	<0.02	10.37	2.45	7.86



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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
3200997	Drill Core	4.18	15.6	67.3	11624.8	79376	2.4	48.5	5.4	278	2.15	58	2.4	4.2	46	56.4	5.3	<0.5	523	0.07	0.081
Pulp Duplicates																					
3200995	Drill Core	4.29	16.0	57.6	5888.3	37290	1.7	60.7	4.6	242	3.45	50	2.5	3.1	59	59.5	11.6	<0.5	359	0.14	0.073
REP 3200995	QC																				
REP 3200996	QC		15.0	64.8	6410.1	43381	2.0	59.8	5.3	119	3.03	57	2.6	3.3	82	56.6	9.3	<0.5	488	0.23	0.122
3201004	Drill Core	4.49	16.0	64.3	293.5	26893	1.2	64.5	5.8	143	2.58	29	2.7	4.1	123	16.5	8.4	<0.5	299	0.24	0.100
REP 3201004	QC																				
3201010	Drill Core	7.93	17.8	76.0	112.0	102	1.2	79.4	5.3	517	4.02	35	3.3	4.1	88	<0.5	11.8	<0.5	94	0.26	0.125
REP 3201010	QC																				
Core Reject Duplicates																					
3200996	Drill Core	4.46	15.6	63.9	6727.5	45365	2.1	61.6	5.7	118	3.06	58	2.4	3.3	80	59.8	9.7	<0.5	502	0.22	0.119
DUP 3200996	QC		15.2	62.0	6551.1	43854	1.9	59.1	5.4	113	3.06	56	2.5	3.4	89	58.0	9.7	<0.5	493	0.23	0.119
Reference Materials																					
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD OREAS135	Standard		8.2	307.7	17582.9	28480	57.1	37.2	29.2	3992	8.95	918	9.6	11.5	27	64.0	38.3	5.3	46	1.85	0.101
STD OREAS133B(D)	Standard																				
STD OREAS605	Standard		5.4	49222.3	898.5	2155	>1000	1612.9	100.6	85	3.64	1699	1.0	3.1	50	12.5	288.1	19.8	11	0.18	0.010
STD OREAS72B	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				



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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	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
3200997	Drill Core	16.2	94.6	<0.01	447	0.156	2.59	<0.01	0.03	0.5	14.65	4.8	2.0	4.09	9	7	66.70	4.98	3.47	0.13	<0.01
Pulp Duplicates																					
3200995	Drill Core	9.8	58.9	<0.01	532	0.068	2.69	<0.01	0.08	<0.5	5.55	4.6	3.6	3.52	9	9	68.50	5.19	5.01	0.20	0.04
REP 3200995	QC																				
REP 3200996	QC	10.9	88.9	<0.01	585	0.126	3.02	<0.01	0.08	<0.5	7.50	4.4	4.0	3.49	11	8					
3201004	Drill Core	13.2	59.6	0.02	1214	0.043	3.62	0.01	0.13	<0.5	6.13	5.1	5.6	1.85	9	5	68.39	6.88	3.80	0.36	0.06
REP 3201004	QC																				
3201010	Drill Core	13.8	18.5	0.02	564	0.004	2.04	<0.01	0.13	<0.5	0.21	3.9	0.9	3.34	<5	8	70.62	7.21	6.13	0.40	0.22
REP 3201010	QC																70.81	7.21	6.16	0.39	0.24
Core Reject Duplicates																					
3200996	Drill Core	11.0	89.0	<0.01	481	0.130	3.03	<0.01	0.09	<0.5	7.33	4.6	4.4	3.61	11	7	67.66	5.48	4.49	0.32	<0.01
DUP 3200996	QC	11.3	87.8	<0.01	694	0.127	3.03	<0.01	0.09	<0.5	7.57	5.0	4.1	3.42	11	7	67.90	5.51	4.48	0.33	<0.01
Reference Materials																					
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD OREAS135	Standard	38.2	22.2	0.85	401	0.026	1.11	0.02	0.50	3.2	1.20	3.6	6.4	7.13	<5	3					
STD OREAS133B(D)	Standard																34.57	7.21	11.59	5.28	3.85
STD OREAS605	Standard	7.4	34.1	0.03	188	0.011	0.76	0.03	0.14	7.1	1.91	1.0	17.0	7.72	7	75					
STD OREAS72B	Standard																51.21	8.91	10.06	3.99	16.06
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				



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	Method Analyte Unit MDL	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008	
		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	
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
		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
3200997	Drill Core	0.02	0.06	0.32	0.22	<0.01	6.07	<0.01	1.18	7.85	6.62	100.41	0.11	2.64	5.03	1.03	1.53	0.31	1.26	11.31	
Pulp Duplicates																					
3200995	Drill Core	0.14	0.05	0.30	0.18	<0.01	6.28	<0.01	0.59	3.57	6.67	98.38	0.11	2.84	5.20	1.13	1.63	0.26	3.38	5.45	
REP 3200995	QC														2.79	5.18					
REP 3200996	QC																				
3201004	Drill Core	0.23	0.04	0.35	0.28	0.02	8.38	<0.01	0.05	2.60	5.65	98.77	0.11	2.88	3.99	1.88	0.99	<0.08	2.91	3.25	
REP 3201004	QC																			3.21	
3201010	Drill Core	0.99	0.08	0.37	0.30	<0.01	4.80	<0.01	0.02	<0.01	7.92	99.67	0.14	3.84	4.43	1.91	1.88	0.20	4.28	0.43	
REP 3201010	QC	0.98	0.09	0.37	0.30	0.01	4.80	<0.01	0.01	<0.01	7.92	99.89	0.14								
Core Reject Duplicates																					
3200996	Drill Core	0.09	0.04	0.30	0.27	0.01	7.02	<0.01	0.69	4.40	6.52	99.30	0.11	3.17	5.43	1.21	1.92	0.12	3.32	6.32	
DUP 3200996	QC	0.09	0.03	0.30	0.28	0.01	7.06	<0.01	0.67	4.26	6.53	99.43	0.10	3.12	5.36	1.25	1.83	0.12	3.27	6.25	
Reference Materials																					
STD COO1	Standard																		2.27		
STD COO1	Standard																		2.36		
STD COO1	Standard																		2.47		
STD COO1	Standard																		2.47		
STD GGC-10	Standard																4.80				
STD GGC-10	Standard																4.90				
STD GGC-10	Standard																4.42				
STD GGC-10	Standard																4.52				
STD GS311-1	Standard													1.01	2.33						
STD GS910-4	Standard													2.74	8.60						
STD OREAS135	Standard																				
STD OREAS133B(D)	Standard	3.46	0.17	0.22	0.12	<0.01	0.07	0.06	5.08	11.37	13.03	99.46	0.01								
STD OREAS605	Standard																				
STD OREAS72B	Standard	1.32	0.16	0.34	0.05	0.15	0.03	0.02	<0.01	0.01	5.12	98.74	0.01								
STD RTS-3A	Standard																			3.41	
STD RTS-3A	Standard																			3.34	



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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 SY-4(D)	Standard																			
STD RTS-3A Expected																				
STD GS311-1 Expected																				
STD GS910-4 Expected																				
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
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
STD SY-4(D) Expected																				
STD OREAS72B Expected																				
STD OREAS133B(D) Expected																				
STD GGC-10 Expected																				
STD COO1 Expected																				
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
BLK	Blank																			
SI BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
Prep Wash																				
ROCK-WHI	Prep Blank		1.2	1.7	3.0	33	<0.5	0.8	3.5	509	1.92	<5	0.6	1.9	23	<0.5	<0.5	<0.5	26	0.61
ROCK-WHI	Prep Blank		1.1	4.4	3.8	36	<0.5	1.6	3.9	560	1.89	<5	0.6	2.1	23	<0.5	<0.5	<0.5	28	0.69



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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 SY-4(D)	Standard																49.87	20.76	6.19	8.01	0.53
STD RTS-3A Expected																					
STD GS311-1 Expected																					
STD GS910-4 Expected																					
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 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 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 GGC-10 Expected																					
STD COO1 Expected																					
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																98.31	0.32	0.02	0.01	0.01
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank	6.9	2.8	0.41	62	0.103	0.89	0.09	0.10	<0.5	<0.05	2.9	<0.5	<0.05	<5	<2	70.87	13.93	3.26	2.25	0.84
ROCK-WHI	Prep Blank	6.4	4.1	0.49	55	0.099	0.93	0.07	0.09	<0.5	<0.05	2.8	<0.5	<0.05	<5	<2	70.76	14.03	3.35	2.41	1.00



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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 %		
		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		
STD SY-4(D)	Standard	1.66	0.11	0.29	0.14	<0.01	0.04	<0.01	0.02	<0.01	4.56	99.34	<0.01									
STD RTS-3A Expected		3.3																				
STD GS311-1 Expected															1.02	2.35						
STD GS910-4 Expected															2.65	8.27						
STD OREAS605 Expected																						
STD OREAS135 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 GGC-10 Expected																		4.79				
STD COO1 Expected																				2.37		
BLK	Blank																				<0.05	
BLK	Blank														<0.02	<0.02						
BLK	Blank																					
BLK	Blank																	<0.02				
SI BLK	Blank	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.00	98.69	<0.01									
BLK	Blank																		<0.08			
BLK	Blank																	<0.02				
BLK	Blank																		<0.08			
Prep Wash																						
ROCK-WHI	Prep Blank	2.05	0.11	0.35	0.09	<0.01	0.08	<0.01	<0.01	<0.01	0.77	99.24	<0.01	0.08	0.03	0.03	<0.02	0.21	<0.05	0.23		
ROCK-WHI	Prep Blank	1.96	0.11	0.35	0.09	<0.01	0.07	<0.01	0.01	<0.01	0.91	99.70	<0.01	0.10	<0.02	0.05	<0.02	0.21	<0.05	0.23		