



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: Confirmation & Email Distribution List
Receiving Lab: Canada-Whitehorse
Received: October 12, 2020
Analysis Start: January 12, 2021
Report Date: February 12, 2021
Page: 1 of 3

CERTIFICATE OF ANALYSIS

WHI20000545.1

CLIENT JOB INFORMATION

Project: MacMillan Pass
Shipment ID: FWZ20-BV-018
P.O. Number
Number of Samples: 34

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	33	Crush, split and pulverize 500g rock to 200 mesh			WHI
SLBHP	1	Sort, label and box pulps			WHI
CRUBW	33	Extra clean rock wash between samples in crusher			WHI
PULSW	33	Extra Wash with Silica between each sample			VAN
AQ270	34	1:1:1 Aqua Regia digestion ICP-ES/ICP-MS analysis	1	Completed	VAN
LF725	34	Li2B4O7/LiBO2 fusion, analysis by XRF		Completed	VAN
TC000	34	Total C/S Analysis by Leco	0.1	Completed	VAN
TC007	34	Graphite and Organic C by Leco After Ignition	0.1	Completed	VAN
TC006	34	Inorganic Carbon	0.2	Completed	VAN
TC010	34	Analysis by Leco after sodium carbonate leach	0.1	Completed	VAN
SHP01	34	Per sample shipping charges for branch shipments			VAN
LF726	2	Li2B4O7/LiBO2 fusion, analysis by XRF		Completed	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: Gilles Dessureau
Moir Cruickshanks
Confirmation & Email Distribution List



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

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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			
					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
3202893	Drill Core																							
3202894	Drill Core																							
3202895	Drill Core																							
3202896	Drill Core																							
3202897	Drill Core																							
3202898	Drill Core																							
3202899	Drill Core																							
3202900	Rock Pulp																							
3202901	Drill Core																							
3202902	Drill Core																							
3202903	Drill Core																							
3202904	Drill Core																							
3202905	Drill Core																							
3202906	Drill Core																							
3202907	Drill Core																							
3202908	Drill Core																							
3202909	Drill Core																							
3202910	Drill Core																							
3202911	Drill Core																							
3202912	Drill Core																							
3202913	Drill Core																							
3202914	Drill Core																							
3202915	Drill Core																							
3202916	Drill Core																							
3202917	Drill Core																							
3202918	Drill Core																							
3202919	Drill Core																							
3202920	Rock																							
3202921	Drill Core																							
3202922	Drill Core																							



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	Method Analyte Unit MDL	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	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01
3202893	Drill Core	2.3	4.8	0.01	2909	0.003	0.23	<0.01	0.08	<0.5	0.79	0.6	1.0	0.16	<5	5	83.20	6.53	0.92	0.03	0.15
3202894	Drill Core	2.0	6.3	0.01	2681	0.002	0.27	<0.01	0.09	<0.5	0.73	0.9	1.0	0.14	<5	6	81.68	7.28	1.19	0.03	0.15
3202895	Drill Core	2.7	5.6	0.01	2848	0.002	0.24	<0.01	0.08	<0.5	1.45	0.6	0.9	0.18	<5	9	82.79	6.89	1.24	0.03	0.16
3202896	Drill Core	3.5	8.7	0.01	>5000	0.003	0.27	<0.01	0.09	<0.5	0.88	0.5	1.0	0.20	<5	5	84.49	5.81	1.16	0.02	0.13
3202897	Drill Core	3.4	7.1	0.01	3900	0.003	0.28	<0.01	0.11	<0.5	0.57	<0.5	0.9	0.20	<5	5	83.32	6.78	0.78	0.02	0.16
3202898	Drill Core	3.8	7.5	0.01	>5000	0.003	0.32	<0.01	0.11	<0.5	1.05	0.5	1.1	0.21	<5	7	84.40	6.51	0.94	0.03	0.14
3202899	Drill Core	2.4	10.6	0.01	3986	0.003	0.30	<0.01	0.10	<0.5	0.77	0.7	1.2	0.15	<5	7	84.01	6.34	1.71	0.02	0.15
3202900	Rock Pulp	17.6	12.7	2.10	69	0.012	0.75	<0.01	0.44	<0.5	3.95	2.3	41.2	11.04	<5	3	34.10	6.99	11.34	5.35	3.81
3202901	Drill Core	3.3	6.8	0.01	>5000	0.003	0.30	<0.01	0.11	<0.5	1.12	0.5	1.5	0.48	<5	7	84.66	6.20	1.08	0.01	0.13
3202902	Drill Core	3.6	7.0	0.01	>5000	0.004	0.32	<0.01	0.12	<0.5	0.84	0.5	1.6	0.47	<5	8	83.07	6.47	1.13	0.02	0.15
3202903	Drill Core	2.8	7.0	0.01	3702	0.003	0.32	<0.01	0.10	<0.5	1.09	0.8	1.2	1.10	<5	9	83.52	6.17	1.75	0.01	0.14
3202904	Drill Core	1.9	7.9	0.01	2419	0.002	0.32	<0.01	0.09	<0.5	0.95	0.7	1.3	1.65	<5	8	79.96	6.77	2.44	<0.01	0.15
3202905	Drill Core	2.0	8.6	<0.01	2140	0.002	0.31	<0.01	0.09	<0.5	0.51	1.0	1.2	1.59	<5	9	81.16	7.47	2.35	0.01	0.15
3202906	Drill Core	1.7	12.4	<0.01	1660	0.002	0.28	<0.01	0.08	<0.5	0.38	1.0	1.1	1.93	<5	14	80.94	6.60	2.78	0.01	0.15
3202907	Drill Core	2.1	13.2	0.01	1778	0.002	0.33	<0.01	0.09	<0.5	0.42	1.1	1.1	2.53	<5	6	78.73	8.10	3.53	0.02	0.18
3202908	Drill Core	2.5	22.5	0.01	639	0.002	0.37	<0.01	0.11	<0.5	1.23	1.4	2.4	7.08	<5	6	68.45	9.22	9.29	0.02	0.19
3202909	Drill Core	2.7	17.9	0.02	520	0.002	0.51	<0.01	0.14	<0.5	1.04	1.3	2.5	6.19	<5	5	72.18	8.17	8.15	0.02	0.18
3202910	Drill Core	2.2	12.8	0.01	1040	0.002	0.38	<0.01	0.09	<0.5	0.72	1.3	1.5	2.97	6	5	79.98	6.74	4.17	0.02	0.15
3202911	Drill Core	2.7	20.6	0.01	568	0.003	0.45	<0.01	0.12	<0.5	8.56	1.6	2.3	3.39	10	10	75.98	6.08	4.54	0.01	0.14
3202912	Drill Core	1.8	21.8	0.01	511	0.002	0.40	<0.01	0.10	<0.5	1.72	1.3	4.5	6.41	6	4	73.92	6.61	8.40	0.01	0.15
3202913	Drill Core	2.5	21.9	0.01	771	0.003	0.40	<0.01	0.09	<0.5	2.29	1.7	3.8	4.22	9	7	78.61	6.23	5.61	<0.01	0.13
3202914	Drill Core	3.0	25.7	0.01	466	0.003	0.40	<0.01	0.11	<0.5	2.00	2.5	4.0	4.71	10	6	77.15	5.22	6.39	0.01	0.13
3202915	Drill Core	3.2	23.8	0.01	403	0.002	0.41	<0.01	0.08	<0.5	1.86	1.9	4.0	4.68	9	4	76.30	6.21	6.16	0.01	0.12
3202916	Drill Core	3.2	29.9	<0.01	267	0.002	2.29	<0.01	0.12	<0.5	2.87	2.3	6.7	5.30	6	4	64.04	8.00	8.28	0.01	0.07
3202917	Drill Core	3.9	24.3	<0.01	431	0.003	3.73	0.01	0.10	<0.5	2.79	3.8	5.5	4.15	7	5	60.89	9.43	7.94	0.05	0.07
3202918	Drill Core	1.6	17.7	<0.01	49	0.002	0.82	<0.01	0.02	<0.5	4.54	1.9	5.1	24.47	<5	7	40.32	3.90	32.15	<0.01	0.03
3202919	Drill Core	1.4	10.8	<0.01	65	0.001	0.12	<0.01	<0.01	0.6	510.97	0.7	4.9	25.47	13	15	28.12	1.08	15.87	<0.01	<0.01
3202920	Rock	1.5	0.7	0.75	17	0.003	0.03	<0.01	<0.01	<0.5	0.43	<0.5	<0.5	<0.05	<5	<2	12.60	0.16	0.22	46.91	3.77
3202921	Drill Core	1.3	2.3	0.09	295	0.020	0.23	0.02	0.02	<0.5	397.29	<0.5	1.2	12.86	7	14	50.77	3.19	2.51	0.49	0.17
3202922	Drill Core	<0.5	3.3	<0.01	185	<0.001	0.02	<0.01	<0.01	0.5	562.21	<0.5	1.6	16.92	10	19	43.40	0.15	2.31	<0.01	<0.01



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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	TC010	TC010	LF726
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	Zn
Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
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	0.02	0.15	0.1
3202893	Drill Core	0.94	<0.01	0.39	0.03	<0.01	1.21	<0.01	0.03	<0.01	5.93	99.55	0.06	4.26	0.24	3.89	0.35	<0.08	0.12	0.35
3202894	Drill Core	1.08	<0.01	0.40	0.03	<0.01	1.31	<0.01	0.01	<0.01	5.54	98.93	0.08	3.86	0.21	3.35	0.50	<0.08	0.08	0.41
3202895	Drill Core	0.99	<0.01	0.37	0.02	<0.01	1.32	<0.01	0.02	<0.01	5.75	99.82	0.05	3.99	0.25	3.37	0.62	<0.08	0.10	0.45
3202896	Drill Core	0.87	<0.01	0.41	0.03	<0.01	1.41	<0.01	0.03	<0.01	4.98	99.57	0.04	3.29	0.29	2.82	0.46	<0.08	0.06	0.67
3202897	Drill Core	1.03	<0.01	0.41	0.03	<0.01	1.44	<0.01	0.02	<0.01	4.96	99.19	0.04	3.20	0.27	2.72	0.47	<0.08	0.08	0.55
3202898	Drill Core	0.97	<0.01	0.41	0.03	<0.01	1.56	<0.01	0.01	<0.01	4.53	99.81	0.04	2.75	0.27	2.38	0.36	<0.08	0.07	0.62
3202899	Drill Core	0.92	<0.01	0.38	0.04	<0.01	1.40	<0.01	0.04	<0.01	3.94	99.21	0.05	2.16	0.19	1.96	0.19	<0.08	0.03	0.46
3202900	Rock Pulp	3.50	0.16	0.23	0.09	<0.01	0.07	0.02	4.87	10.72	14.71	99.18	<0.01	2.60	11.54	0.51	<0.02	7.64	5.40	18.41
3202901	Drill Core	0.92	<0.01	0.42	0.03	<0.01	1.61	<0.01	0.02	<0.01	4.21	99.54	0.03	2.29	0.57	2.10	0.20	<0.08	0.30	0.79
3202902	Drill Core	0.98	<0.01	0.45	0.03	<0.01	1.67	<0.01	0.03	<0.01	4.47	98.73	0.04	2.41	0.55	2.18	0.23	<0.08	0.26	0.85
3202903	Drill Core	0.90	<0.01	0.40	0.02	<0.01	1.52	<0.01	0.03	<0.01	4.29	99.00	0.04	1.97	1.17	1.80	0.17	<0.08	0.84	0.97
3202904	Drill Core	0.95	<0.01	0.38	0.02	<0.01	1.70	<0.01	0.03	<0.01	4.72	97.43	0.04	1.75	1.79	1.61	0.14	<0.08	1.31	1.44
3202905	Drill Core	1.05	<0.01	0.39	0.02	<0.01	1.53	<0.01	0.02	<0.01	5.52	99.95	0.07	2.69	1.67	2.23	0.41	0.20	1.16	1.53
3202906	Drill Core	0.93	<0.01	0.35	0.02	<0.01	1.44	0.01	0.04	<0.01	5.38	98.91	0.06	2.29	1.95	2.01	0.26	<0.08	1.44	1.52
3202907	Drill Core	1.14	<0.01	0.40	0.02	<0.01	1.68	<0.01	0.02	<0.01	5.47	99.58	0.05	2.01	2.64	1.85	0.16	<0.08	2.07	1.69
3202908	Drill Core	1.29	<0.01	0.42	0.02	<0.01	1.86	<0.01	0.03	<0.01	7.94	99.06	0.04	1.59	7.47	1.54	0.04	<0.08	6.29	3.52
3202909	Drill Core	1.14	<0.01	0.40	0.04	<0.01	1.75	<0.01	0.04	<0.01	7.04	99.42	0.03	1.58	6.46	1.53	0.05	<0.08	5.56	2.68
3202910	Drill Core	0.93	0.01	0.33	0.03	<0.01	1.64	<0.01	0.05	0.01	4.45	98.80	0.03	1.28	3.13	1.23	0.04	<0.08	2.61	1.56
3202911	Drill Core	0.85	<0.01	0.35	0.07	<0.01	2.04	0.16	0.57	0.28	6.17	97.71	0.04	2.02	3.89	2.00	0.02	<0.08	2.78	3.33
3202912	Drill Core	0.93	<0.01	0.37	0.05	<0.01	1.51	0.05	0.07	<0.01	7.50	99.85	0.03	1.89	6.84	1.85	0.04	<0.08	5.32	4.57
3202913	Drill Core	0.82	<0.01	0.40	0.06	<0.01	1.41	0.11	0.09	0.05	6.05	99.84	0.04	2.07	4.48	2.03	0.03	<0.08	3.28	3.58
3202914	Drill Core	0.71	<0.01	0.38	0.05	<0.01	1.53	0.13	0.07	0.01	7.37	99.43	0.04	2.26	5.24	2.22	0.03	<0.08	3.67	4.70
3202915	Drill Core	0.69	<0.01	0.44	0.05	<0.01	1.61	0.08	0.05	<0.01	7.36	99.33	0.05	2.51	5.09	2.47	0.04	<0.08	3.87	3.65
3202916	Drill Core	0.54	<0.01	0.44	0.04	<0.01	7.42	0.03	0.07	<0.01	8.36	98.21	0.04	2.20	7.48	2.16	0.03	<0.08	5.44	6.12
3202917	Drill Core	0.33	0.02	0.47	0.07	<0.01	10.73	0.03	0.05	0.02	7.56	98.96	0.05	1.92	6.78	1.88	0.03	<0.08	5.26	4.57
3202918	Drill Core	0.07	<0.01	0.30	0.04	<0.01	2.53	0.02	0.06	0.01	19.27	99.07	0.03	1.24	27.58	1.22	<0.02	<0.08	21.11	19.38
3202919	Drill Core	0.03	0.04	0.14	0.02	<0.01	0.39	0.08	1.68	>24	16.46	100.74	0.02	1.00	28.89	0.98	<0.02	<0.08	20.88	24.00
3202920	Rock	<0.01	0.02	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.01	36.09	99.84	<0.01	9.94	<0.02	0.29	0.04	35.26	<0.02	<0.15
3202921	Drill Core	0.42	0.04	0.07	0.02	<0.01	0.09	0.02	4.37	23.91	7.21	100.55	<0.01	0.45	14.29	0.38	<0.02	0.22	10.40	11.65
3202922	Drill Core	<0.01	0.04	<0.01	<0.01	<0.01	0.06	0.05	5.54	>24	9.40	101.17	<0.01	0.55	17.83	0.52	<0.02	<0.08	13.89	11.80
																				32.4



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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
3202923	Drill Core	5.81	42.3	169.2	5034.2	35506	8.3	145.9	14.8	67	7.14	231	7.4	1.9	154	71.8	152.5	<0.5	65	0.06	0.034
3202924	Drill Core	4.62	38.1	117.0	781.5	491	6.3	139.3	13.4	76	11.77	152	4.5	1.0	201	2.7	135.7	<0.5	91	0.14	0.072
3202925	Drill Core	3.16	36.5	110.0	376.6	308	4.8	166.2	15.4	82	6.61	150	5.4	1.7	221	1.7	76.9	<0.5	81	0.10	0.050
3202926	Drill Core	3.83	43.7	89.0	736.0	185	5.2	157.2	16.0	106	5.27	161	14.4	2.9	174	1.3	62.6	<0.5	73	0.03	0.027



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Project: MacMillan Pass
Report Date: February 12, 2021

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CERTIFICATE OF ANALYSIS

WHI20000545.1

	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
3202923	Drill Core	3.6	28.0	0.01	206	0.003	2.22	<0.01	0.05	<0.5	62.18	3.0	6.2	8.44	8	9	59.35	5.25	10.13	0.09	0.10
3202924	Drill Core	2.3	31.8	<0.01	211	0.003	3.76	0.02	0.10	<0.5	4.73	1.6	6.6	11.32	7	7	49.34	8.68	17.44	0.20	0.04
3202925	Drill Core	9.9	37.2	<0.01	343	0.002	4.00	0.02	0.14	<0.5	2.90	1.6	6.8	5.46	8	5	54.98	11.36	9.96	0.14	0.09
3202926	Drill Core	4.5	34.9	<0.01	516	0.003	2.90	0.01	0.12	<0.5	2.45	2.0	5.3	4.37	10	5	61.33	8.77	7.62	0.05	0.10



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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	TC010	TC010	LF726
	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	Zn
	Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	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	0.02	0.15	0.1
3202923	Drill Core	0.13	<0.01	0.38	0.10	<0.01	7.22	0.02	0.52	3.47	9.45	98.01	0.06	1.93	10.80	1.79	0.13	<0.08	8.26	7.61	
3202924	Drill Core	0.30	<0.01	0.43	0.19	<0.01	9.35	0.01	0.10	0.05	11.71	99.00	0.08	2.20	14.84	2.04	0.15	<0.08	11.43	10.22	
3202925	Drill Core	0.64	0.02	0.57	0.14	<0.01	11.34	<0.01	0.07	0.03	9.11	99.86	0.08	2.34	8.34	2.19	0.15	<0.08	6.65	5.06	
3202926	Drill Core	0.60	0.02	0.58	0.08	<0.01	9.60	0.02	0.10	0.01	7.56	97.60	0.07	2.34	6.61	2.24	0.10	<0.08	5.03	4.75	



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QUALITY CONTROL REPORT

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	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
3202911	Drill Core	5.55	165.3	1632.7	5670.3	2777	14.7	72.7	11.1	64	2.99	74	8.3	2.4	35	16.9	1286.1	<0.5	38	0.02	0.016
Pulp Duplicates																					
3202896	Drill Core	3.80	11.4	15.5	226.9	24	2.0	1.7	<0.5	23	0.70	19	0.7	2.4	81	<0.5	20.6	<0.5	31	0.02	0.003
REP 3202896	QC																				
3202898	Drill Core	4.32	10.0	8.1	163.3	13	2.9	2.0	<0.5	25	0.55	14	0.7	2.1	85	<0.5	19.3	<0.5	24	0.02	0.003
REP 3202898	QC		10.2	7.5	159.4	14	2.9	2.8	<0.5	26	0.54	14	0.7	2.0	82	<0.5	19.9	<0.5	24	0.02	0.002
3202900	Rock Pulp	0.04	2.7	311.4	>40000	108626	102.1	26.3	25.2	1313	7.85	139	1.4	6.4	16	301.9	166.8	0.6	<10	3.88	0.039
REP 3202900	QC																				
3202908	Drill Core	4.12	13.1	95.0	258.2	16	5.8	102.5	18.4	37	6.23	67	1.2	1.4	25	<0.5	62.2	<0.5	16	0.02	0.003
REP 3202908	QC																				
3202922	Drill Core	1.82	19.7	549.2	>40000	>200000	58.3	28.9	13.5	237	1.66	144	1.3	<0.5	<5	832.7	680.9	<0.5	<10	<0.01	0.002
REP 3202922	QC																				
3202925	Drill Core	3.16	36.5	110.0	376.6	308	4.8	166.2	15.4	82	6.61	150	5.4	1.7	221	1.7	76.9	<0.5	81	0.10	0.050
REP 3202925	QC																				
3202926	Drill Core	3.83	43.7	89.0	736.0	185	5.2	157.2	16.0	106	5.27	161	14.4	2.9	174	1.3	62.6	<0.5	73	0.03	0.027
REP 3202926	QC																				
Reference Materials																					
STD COO2	Standard																				
STD COO2	Standard																				
STD GBM309-14	Standard																				
STD GGC-09	Standard																				
STD GGC-10	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS314-1	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS133B(D)	Standard																				



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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
3202911	Drill Core	2.7	20.6	0.01	568	0.003	0.45	<0.01	0.12	<0.5	8.56	1.6	2.3	3.39	10	10	75.98	6.08	4.54	0.01	0.14
Pulp Duplicates																					
3202896	Drill Core	3.5	8.7	0.01	>5000	0.003	0.27	<0.01	0.09	<0.5	0.88	0.5	1.0	0.20	<5	5	84.49	5.81	1.16	0.02	0.13
REP 3202896	QC																				
3202898	Drill Core	3.8	7.5	0.01	>5000	0.003	0.32	<0.01	0.11	<0.5	1.05	0.5	1.1	0.21	<5	7	84.40	6.51	0.94	0.03	0.14
REP 3202898	QC	3.6	7.2	0.01	>5000	0.003	0.30	<0.01	0.11	<0.5	1.04	0.9	1.1	0.21	<5	6	84.36	6.51	0.93	0.03	0.15
3202900	Rock Pulp	17.6	12.7	2.10	69	0.012	0.75	<0.01	0.44	<0.5	3.95	2.3	41.2	11.04	<5	3	34.10	6.99	11.34	5.35	3.81
REP 3202900	QC																				
3202908	Drill Core	2.5	22.5	0.01	639	0.002	0.37	<0.01	0.11	<0.5	1.23	1.4	2.4	7.08	<5	6	68.45	9.22	9.29	0.02	0.19
REP 3202908	QC																68.56	9.21	9.26	0.01	0.19
3202922	Drill Core	<0.5	3.3	<0.01	185	<0.001	0.02	<0.01	<0.01	0.5	562.21	<0.5	1.6	16.92	10	19	43.40	0.15	2.31	<0.01	<0.01
REP 3202922	QC																				
3202925	Drill Core	9.9	37.2	<0.01	343	0.002	4.00	0.02	0.14	<0.5	2.90	1.6	6.8	5.46	8	5	54.98	11.36	9.96	0.14	0.09
REP 3202925	QC																				
3202926	Drill Core	4.5	34.9	<0.01	516	0.003	2.90	0.01	0.12	<0.5	2.45	2.0	5.3	4.37	10	5	61.33	8.77	7.62	0.05	0.10
REP 3202926	QC																61.24	8.79	7.64	0.05	0.11
Reference Materials																					
STD COO2	Standard																				
STD COO2	Standard																				
STD GBM309-14	Standard																				
STD GGC-09	Standard																				
STD GGC-10	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS314-1	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD OREAS133B(D)	Standard																33.68	6.90	11.52	5.28	3.77
STD OREAS133B(D)	Standard																33.68	6.87	11.51	5.29	3.81



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QUALITY CONTROL REPORT

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	Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC010	TC010	LF726										
	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	Zn									
	Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%										
	MDL	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	0.02	0.15	0.1								
3202911	Drill Core	0.85	<0.01	0.35	0.07	<0.01	2.04	0.16	0.57	0.28	6.17	97.71	0.04	2.02	3.89	2.00	0.02	<0.08	2.78	3.33										
Pulp Duplicates																														
3202896	Drill Core	0.87	<0.01	0.41	0.03	<0.01	1.41	<0.01	0.03	<0.01	4.98	99.57	0.04	3.29	0.29	2.82	0.46	<0.08	0.06	0.67										
REP 3202896	QC													3.36	0.27								0.04							
3202898	Drill Core	0.97	<0.01	0.41	0.03	<0.01	1.56	<0.01	0.01	<0.01	4.53	99.81	0.04	2.75	0.27	2.38	0.36	<0.08	0.07	0.62										
REP 3202898	QC	0.96	<0.01	0.41	0.03	<0.01	1.54	<0.01	0.02	<0.01	4.53	99.75	0.04																	
3202900	Rock Pulp	3.50	0.16	0.23	0.09	<0.01	0.07	0.02	4.87	10.72	14.71	99.18	<0.01	2.60	11.54	0.51	<0.02	7.64	5.40	18.41										
REP 3202900	QC																					5.94								
3202908	Drill Core	1.29	<0.01	0.42	0.02	<0.01	1.86	<0.01	0.03	<0.01	7.94	99.06	0.04	1.59	7.47	1.54	0.04	<0.08	6.29	3.52										
REP 3202908	QC	1.27	<0.01	0.42	0.03	<0.01	1.88	<0.01	0.02	<0.01	7.94	99.13	0.04													0.05	<0.08			
3202922	Drill Core	<0.01	0.04	<0.01	<0.01	<0.01	0.06	0.05	5.54	>24	9.40	101.17	<0.01	0.55	17.83	0.52	<0.02	<0.08	13.89	11.80	32.4									
REP 3202922	QC																					32.3								
3202925	Drill Core	0.64	0.02	0.57	0.14	<0.01	11.34	<0.01	0.07	0.03	9.11	99.86	0.08	2.34	8.34	2.19	0.15	<0.08	6.65	5.06										
REP 3202925	QC																					6.94								
3202926	Drill Core	0.60	0.02	0.58	0.08	<0.01	9.60	0.02	0.10	0.01	7.56	97.60	0.07	2.34	6.61	2.24	0.10	<0.08	5.03	4.75										
REP 3202926	QC	0.60	0.02	0.57	0.09	<0.01	9.61	0.02	0.09	0.01	7.56	97.59	0.07																	
Reference Materials																														
STD COO2	Standard																		3.49											
STD COO2	Standard																		3.33											
STD GBM309-14	Standard																					21.9								
STD GGC-09	Standard																		2.33											
STD GGC-10	Standard																		4.41											
STD GS311-1	Standard														1.01	2.37														
STD GS311-1	Standard														0.94	2.29														
STD GS314-1	Standard														1.30	29.86														
STD GS910-4	Standard														2.73	8.33														
STD GS910-4	Standard														2.59	8.90														
STD OREAS133B(D)	Standard	3.43	0.16	0.22	0.10	<0.01	0.08	0.03	5.07	11.37	13.03	98.01	0.01																	
STD OREAS133B(D)	Standard	3.45	0.16	0.22	0.10	<0.01	0.07	0.03	5.07	11.37	13.03	98.01	<0.01																	



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QUALITY CONTROL REPORT

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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	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 OREAS605	Standard		4.8	47525.0	822.0	2400	971.1	1552.1	94.4	76	3.54	1616	0.9	2.4	47	13.1	270.7	18.5	<10	0.18	0.010
STD OREAS72B	Standard																				
STD OREAS72B	Standard																				
STD OREAS927-AR	Standard		1.3	10569.9	231.5	731	4.0	31.7	29.9	1082	8.07	13	1.8	13.2	13	0.9	1.1	64.7	33	0.30	0.051
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD SY-4(D)	Standard																				
STD SY-4(D)	Standard																				
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD GS314-1 Expected																					
STD OREAS605 Expected			4.75	49800	856	2170	984	1568	96	83.44	3.6707	1674	0.9		49	13.6	290	19	7.8	0.182	0.0105
STD OREAS927-AR Expected			1.06	10715	203	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 GGC-10 Expected																					
STD GGC-09 Expected																					
STD SY-4(D) Expected																					
STD OREAS72B Expected																					
STD OREAS133B(D) Expected																					
STD GBM309-14 Expected																					
STD COO2 Expected																					
STD RTS-3A 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	0.001
BLK	Blank																				
SI BLK	Blank																				
BLK	Blank																				
SI BLK	Blank																				
SI BLK	Blank																				



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QUALITY CONTROL REPORT

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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 OREAS605	Standard	7.2	26.7	0.03	230	0.010	0.72	0.03	0.13	7.2	1.50	0.9	14.7	7.75	6	71					
STD OREAS72B	Standard																51.15	9.00	9.90	3.99	16.05
STD OREAS72B	Standard																51.05	8.93	9.89	3.96	16.03
STD OREAS927-AR	Standard	26.1	43.6	1.91	45	0.093	3.21	<0.01	0.26	4.1	<0.05	3.8	<0.5	1.78	9	14					
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD SY-4(D)	Standard																49.80	20.88	6.20	7.93	0.53
STD SY-4(D)	Standard																50.00	20.86	6.21	8.02	0.53
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD GS314-1 Expected																					
STD OREAS605 Expected		7.5	28.8	0.0289	222	0.0103	0.73	0.0328	0.134	7.1	1.7	1.3	15.5	7.86	6.7	77					
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 GGC-10 Expected																					
STD GGC-09 Expected																					
STD SY-4(D) Expected																	49.9	20.69	6.21	8.05	0.54
STD OREAS72B Expected																	51.17	8.97	9.724	3.96	15.933
STD OREAS133B(D) Expected																	33.83	6.91	11.67	5.4	3.73
STD GBM309-14 Expected																					
STD COO2 Expected																					
STD RTS-3A 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																98.58	0.30	0.02	<0.01	0.02
BLK	Blank																				
SI BLK	Blank																98.77	0.30	0.02	<0.01	0.01
SI 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 %	TC010 S/S- %	TC010 SO4 %	LF726 Zn %		
		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	0.02	0.15	0.1		
STD OREAS605	Standard																						
STD OREAS72B	Standard	1.33	0.13	0.35	0.06	0.14	0.03	0.02	<0.01	<0.01	5.12	98.58	0.01										
STD OREAS72B	Standard	1.33	0.12	0.34	0.06	0.14	0.03	0.02	<0.01	0.01	5.25	98.46	0.01										
STD OREAS927-AR	Standard																						
STD RTS-3A	Standard																			7.07			
STD RTS-3A	Standard																			6.81			
STD SY-4(D)	Standard	1.65	0.11	0.30	0.15	<0.01	0.03	<0.01	0.01	<0.01	4.56	99.28	<0.01										
STD SY-4(D)	Standard	1.66	0.12	0.30	0.14	<0.01	0.04	<0.01	0.02	0.01	4.56	99.59	<0.01										
STD GS311-1 Expected														1.02	2.35								
STD GS910-4 Expected														2.65	8.27								
STD GS314-1 Expected														1.41	29.11								
STD OREAS605 Expected																							
STD OREAS927-AR Expected																							
STD GGC-10 Expected																		4.79					
STD GGC-09 Expected																		2.41					
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 GBM309-14 Expected																					22.7192		
STD COO2 Expected																			3.43				
STD RTS-3A Expected																				7			
BLK	Blank													<0.02	<0.02								
BLK	Blank													<0.02	<0.02								
BLK	Blank																						
BLK	Blank																			<0.02			
SI BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	98.92	<0.01										
BLK	Blank																	<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	99.12	<0.01										
SI BLK	Blank																				<0.1		



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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
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
Prep Wash																				
ROCK-WHI	Prep Blank		3.7	2.9	2.8	27	<0.5	1.1	3.4	340	1.75	<5	0.5	2.5	23	<0.5	<0.5	<0.5	23	0.65
ROCK-WHI	Prep Blank		0.6	1.2	1.3	24	<0.5	0.8	3.0	330	1.70	<5	<0.5	2.5	20	<0.5	<0.5	<0.5	21	0.63



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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	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank	6.4	5.0	0.45	58	0.097	0.87	0.08	0.09	<0.5	<0.05	2.6	<0.5	<0.05	<5	<2	71.02	14.06	3.18	2.48	0.83
ROCK-WHI	Prep Blank	6.2	4.8	0.41	55	0.093	0.85	0.10	0.09	<0.5	<0.05	2.2	<0.5	<0.05	<5	<2	71.01	13.95	2.99	2.27	0.76



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		LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC010	TC010	LF726
		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	Zn
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		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	0.02	0.15	0.1
BLK	Blank	<0.02																			
BLK	Blank	<0.08																			
BLK	Blank	<0.02																			
Prep Wash																					
ROCK-WHI	Prep Blank	1.98	0.07	0.33	0.09	<0.01	0.08	<0.01	<0.01	<0.01	0.90	99.47	<0.01	0.09	<0.02	0.03	<0.02	0.21	<0.02	<0.15	
ROCK-WHI	Prep Blank	2.10	0.07	0.32	0.08	<0.01	0.08	<0.01	<0.01	<0.01	0.75	98.83	<0.01	0.06	<0.02	<0.02	<0.02	0.21	<0.02	<0.15	