



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: October 13, 2020
Analysis Start: January 12, 2021
Report Date: February 19, 2021
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CERTIFICATE OF ANALYSIS

WHI20000559.1

CLIENT JOB INFORMATION

Project: MacMillan Pass
Shipment ID: FWZ20-BV-019
P.O. Number
Number of Samples: 51

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	49	Crush, split and pulverize 500g rock to 200 mesh			WHI
SLBHP	2	Sort, label and box pulps			WHI
CRUBW	49	Extra clean rock wash between samples in crusher			WHI
PULSW	49	Extra Wash with Silica between each sample			VAN
AQ270	51	1:1:1 Aqua Regia digestion ICP-ES/ICP-MS analysis	1	Completed	VAN
LF725	51	Li2B4O7/LiBO2 fusion, analysis by XRF		Completed	VAN
TC000	51	Total C/S Analysis by Leco	0.1	Completed	VAN
TC007	51	Graphite and Organic C by Leco After Ignition	0.1	Completed	VAN
TC006	51	Inorganic Carbon	0.2	Completed	VAN
TC010	51	Analysis by Leco after sodium carbonate leach	0.1	Completed	VAN
SHP01	51	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

WHI20000559.1

	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
3202927	Drill Core	4.98	19.1	72.8	414.5	3861	6.2	87.8	7.7	82	15.75	246	2.8	0.8	100	26.1	90.7	<0.5	47	0.13	0.060
3202928	Drill Core	5.85	9.0	403.4	755.8	153974	26.2	33.5	5.7	186	22.61	256	0.8	<0.5	<5	1153.6	190.7	<0.5	17	<0.01	0.002
3202929	Drill Core	7.35	4.0	225.6	1422.3	130170	40.7	17.5	3.0	181	31.58	323	<0.5	<0.5	<5	1193.0	229.8	<0.5	<10	<0.01	<0.001
3202930	Drill Core	6.56	14.8	408.7	9833.4	111076	71.3	28.5	6.4	120	31.74	542	1.5	<0.5	6	702.9	382.6	<0.5	<10	<0.01	0.003
3202931	Drill Core	6.10	26.0	234.0	1099.1	14825	13.0	181.0	19.3	84	10.83	255	4.4	0.9	205	87.4	143.1	<0.5	52	0.25	0.118
3202932	Drill Core	4.74	18.7	47.2	582.8	634	5.8	381.3	36.1	114	6.98	184	2.8	0.7	381	4.1	75.0	<0.5	49	0.37	0.178
3202933	Drill Core	4.29	15.8	75.5	850.8	866	6.6	438.0	59.3	109	9.09	206	3.5	1.5	393	9.9	123.2	<0.5	62	0.48	0.225
3202934	Drill Core	4.29	25.0	54.9	261.6	352	3.5	182.9	18.5	62	5.58	156	3.2	0.8	279	5.6	52.0	<0.5	44	0.20	0.091
3202935	Drill Core	5.22	6.4	214.7	1007.7	78868	17.6	51.6	5.0	127	8.92	349	1.5	<0.5	68	586.0	197.9	<0.5	16	0.05	0.030
3202936	Drill Core	4.92	7.3	349.6	588.8	41984	10.6	44.3	5.8	100	12.11	187	1.8	0.6	72	358.2	220.5	<0.5	27	0.06	0.029
3202937	Drill Core	4.53	2.3	28.4	89.9	1801	1.1	42.6	7.0	57	2.26	79	1.3	1.0	277	12.5	22.4	<0.5	29	0.11	0.053
3202938	Drill Core	5.59	20.8	55.3	270.1	6164	5.4	97.9	8.0	64	10.69	562	3.4	0.5	94	45.2	107.1	<0.5	37	0.06	0.032
3202939	Drill Core	4.94	39.6	46.1	521.8	2203	5.9	101.5	13.3	74	10.27	275	5.4	<0.5	38	19.1	104.8	<0.5	33	0.04	0.038
3202940	Rock Pulp	0.05	3.9	445.3	34001.8	48639	57.0	16.3	42.9	2213	7.29	150	1.5	6.1	25	160.2	44.9	<0.5	<10	4.82	0.054
3202941	Drill Core	2.54	20.7	69.1	1373.3	3223	13.7	72.9	12.1	76	24.85	647	2.5	<0.5	14	28.2	238.9	<0.5	17	<0.01	0.011
3202942	Drill Core	1.81	15.4	112.5	2385.2	8122	18.8	69.3	13.2	101	29.53	641	2.1	<0.5	14	72.7	320.3	<0.5	19	0.02	0.013
3202943	Drill Core	6.01	22.7	110.0	1366.7	4922	14.7	70.5	11.9	102	28.35	666	2.9	<0.5	11	43.2	257.2	<0.5	25	<0.01	0.010
3202944	Drill Core	7.35	20.9	135.8	1423.4	23237	17.1	60.4	11.4	128	29.33	612	2.7	<0.5	9	192.9	312.1	<0.5	25	<0.01	0.005
3202945	Drill Core	5.39	26.3	107.4	1281.7	14365	14.5	95.2	20.3	96	23.40	547	3.4	<0.5	14	125.2	268.0	<0.5	31	<0.01	0.012
3202946	Drill Core	3.77	43.5	179.5	648.7	24249	12.3	101.9	14.8	100	19.35	427	5.7	0.6	14	239.3	192.4	<0.5	37	<0.01	0.010
3202947	Drill Core	4.80	88.5	290.7	1059.4	6196	12.8	118.6	20.4	123	25.65	638	12.9	0.9	25	59.4	241.3	<0.5	35	<0.01	0.016
3202948	Drill Core	4.23	281.7	496.5	1817.9	4286	11.3	115.5	18.6	81	18.66	651	30.7	2.5	58	45.7	279.6	<0.5	43	0.01	0.043
3202949	Drill Core	3.79	28.3	149.7	696.4	4186	4.9	56.7	5.1	69	10.51	307	19.3	1.8	57	35.2	89.8	<0.5	31	0.01	0.031
3202950	Drill Core	4.25	36.0	634.7	942.2	24504	6.9	51.0	6.0	87	11.71	400	37.1	2.4	62	209.7	147.2	<0.5	54	0.02	0.056
3202951	Drill Core	3.35	15.0	205.6	339.1	14639	4.4	40.4	5.0	57	6.06	215	9.7	1.3	32	133.5	73.6	<0.5	33	0.01	0.018
3202952	Drill Core	4.45	14.5	435.3	411.4	5118	2.9	46.2	5.4	65	6.02	213	16.0	1.7	39	45.2	59.9	<0.5	33	0.01	0.026
3202953	Drill Core	2.82	9.5	129.5	186.3	7293	1.4	35.5	5.5	42	2.18	39	4.4	0.8	23	65.8	30.6	<0.5	26	<0.01	0.010
3202954	Drill Core	3.35	11.3	85.5	208.4	6662	3.1	53.0	5.6	65	6.44	239	2.9	0.7	24	66.3	54.0	<0.5	27	0.01	0.012
3202955	Drill Core	4.00	55.8	198.3	1599.5	34204	13.0	106.3	5.7	84	11.07	362	7.2	0.5	21	284.7	138.1	<0.5	27	0.01	0.013
3202956	Drill Core	3.79	64.9	552.4	1048.6	15155	8.4	116.5	6.4	82	8.90	375	11.2	0.7	24	121.6	124.9	<0.5	31	0.02	0.015



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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
3202927	Drill Core	1.4	32.2	<0.01	71	0.002	0.38	<0.01	0.05	<0.5	7.73	0.9	5.8	18.00	<5	3	57.72	2.68	23.30	0.17	0.06
3202928	Drill Core	<0.5	13.1	<0.01	44	<0.001	0.05	<0.01	<0.01	<0.5	234.30	<0.5	7.7	>30	7	6	26.78	0.43	31.94	<0.01	<0.01
3202929	Drill Core	<0.5	6.9	<0.01	82	<0.001	0.02	<0.01	<0.01	10.9	204.18	<0.5	11.8	>30	9	3	10.24	0.09	45.35	<0.01	<0.01
3202930	Drill Core	<0.5	12.7	<0.01	30	<0.001	0.03	<0.01	<0.01	<0.5	173.14	<0.5	13.3	>30	6	7	11.55	0.09	45.99	<0.01	<0.01
3202931	Drill Core	2.0	55.6	<0.01	156	0.002	1.77	<0.01	0.08	<0.5	29.24	2.6	8.8	12.04	6	4	55.42	7.49	15.29	0.34	0.07
3202932	Drill Core	2.0	70.9	0.01	516	0.003	3.78	0.02	0.15	<0.5	2.48	4.7	6.4	5.79	6	<2	55.78	11.15	9.87	0.48	0.14
3202933	Drill Core	2.8	108.6	0.01	562	0.005	4.26	0.02	0.13	<0.5	5.23	3.8	7.5	8.03	6	3	45.56	13.26	13.19	0.66	0.12
3202934	Drill Core	2.1	47.5	<0.01	348	0.003	1.73	<0.01	0.08	<0.5	3.58	2.5	4.2	5.41	<5	3	70.93	6.35	8.14	0.28	0.08
3202935	Drill Core	0.9	23.2	<0.01	101	0.001	0.24	<0.01	0.02	<0.5	115.04	0.8	3.4	13.39	7	4	65.19	1.26	12.64	0.08	0.03
3202936	Drill Core	1.2	20.7	<0.01	98	0.001	0.47	<0.01	0.03	<0.5	68.21	1.0	4.8	15.37	<5	4	59.88	2.52	17.46	0.08	0.04
3202937	Drill Core	2.7	18.9	<0.01	3231	0.002	1.90	0.01	0.07	<0.5	3.02	1.8	2.7	1.32	<5	<2	79.63	6.13	3.26	0.16	0.06
3202938	Drill Core	1.5	24.5	<0.01	124	0.001	1.10	<0.01	0.05	<0.5	11.70	1.3	4.3	11.76	<5	3	64.00	4.67	15.65	0.10	0.06
3202939	Drill Core	0.9	18.2	<0.01	364	0.001	0.21	<0.01	0.03	<0.5	5.86	0.6	2.7	11.59	<5	2	69.26	2.40	15.07	0.06	0.04
3202940	Rock Pulp	20.7	14.4	2.60	234	0.017	0.98	0.01	0.65	<0.5	1.39	3.1	41.8	7.68	<5	<2	38.15	7.67	10.87	6.90	4.85
3202941	Drill Core	0.7	14.4	<0.01	97	<0.001	0.09	<0.01	0.02	<0.5	9.04	<0.5	7.0	29.30	<5	3	37.99	0.77	38.16	0.02	0.02
3202942	Drill Core	0.6	12.5	<0.01	68	0.001	0.13	<0.01	0.02	1.4	18.64	<0.5	7.9	>30	<5	2	29.20	1.00	44.26	0.03	0.02
3202943	Drill Core	0.7	13.3	<0.01	36	0.001	0.10	<0.01	0.02	0.6	13.65	<0.5	9.8	>30	<5	<2	29.71	0.67	42.28	0.02	0.02
3202944	Drill Core	0.6	15.0	<0.01	52	0.001	0.10	<0.01	0.01	0.8	40.42	<0.5	13.4	>30	<5	2	27.97	0.55	43.24	0.02	0.02
3202945	Drill Core	0.9	15.9	<0.01	83	0.001	0.15	<0.01	0.02	<0.5	28.33	<0.5	7.8	28.10	<5	2	39.59	1.20	35.70	0.02	0.02
3202946	Drill Core	1.0	18.8	<0.01	86	0.001	0.17	<0.01	0.03	0.9	45.36	0.8	10.5	23.37	<5	3	46.85	1.52	28.65	0.02	0.03
3202947	Drill Core	1.2	20.8	<0.01	37	0.002	0.16	<0.01	0.02	<0.5	14.97	1.0	12.5	>30	<5	2	35.25	1.12	38.01	0.01	0.01
3202948	Drill Core	2.4	22.3	<0.01	57	0.003	0.22	<0.01	0.02	0.9	11.57	2.5	19.4	21.59	7	4	50.38	1.25	28.16	0.03	0.02
3202949	Drill Core	2.2	18.8	<0.01	151	0.002	0.18	<0.01	0.02	0.7	8.90	1.3	4.2	11.88	<5	<2	71.76	1.31	15.52	0.03	0.02
3202950	Drill Core	2.8	26.6	<0.01	80	0.003	0.28	<0.01	0.03	<0.5	43.56	2.0	3.9	14.13	9	3	56.71	1.76	16.96	0.05	0.03
3202951	Drill Core	2.0	22.0	<0.01	171	0.002	0.23	<0.01	0.04	<0.5	24.90	1.1	1.9	7.42	<5	<2	77.30	2.12	8.89	0.02	0.04
3202952	Drill Core	2.3	23.9	<0.01	200	0.002	0.25	<0.01	0.04	<0.5	9.70	1.3	1.8	6.67	<5	<2	79.72	1.95	8.60	0.03	0.04
3202953	Drill Core	1.6	15.8	<0.01	1232	0.002	0.24	<0.01	0.06	<0.5	12.43	0.8	1.0	2.38	<5	<2	87.82	2.75	3.21	0.01	0.07
3202954	Drill Core	1.5	19.0	<0.01	368	0.002	0.27	<0.01	0.05	<0.5	13.78	0.8	2.2	7.27	<5	<2	77.43	2.47	9.22	0.02	0.06
3202955	Drill Core	1.1	12.8	<0.01	126	0.002	0.18	<0.01	0.04	<0.5	61.87	0.7	4.9	14.24	<5	3	62.79	1.72	16.30	0.02	0.03
3202956	Drill Core	1.1	11.0	0.01	138	0.003	0.21	<0.01	0.03	0.5	29.97	0.9	4.1	10.57	<5	<2	70.79	1.90	12.99	0.06	0.06



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	Method	Analyte	Unit	MDL	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC010	TC010		
					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	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.02	0.15
3202927	Drill Core																						
3202928	Drill Core																						
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3202939	Drill Core																						
3202940	Rock Pulp																						
3202941	Drill Core																						
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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
3202957 Drill Core	4.84	14.4	170.8	883.5	20389	12.5	93.1	9.8	98	30.97	557	5.2	0.6	26	144.9	193.0	<0.5	21	0.02	0.014
3202958 Drill Core	5.43	5.7	59.9	788.7	1059	8.2	43.9	8.2	93	28.65	518	2.7	0.6	23	7.3	127.6	<0.5	15	0.03	0.018
3202959 Drill Core	3.80	10.8	50.9	783.2	195	7.6	49.3	7.6	71	23.57	448	3.3	<0.5	22	1.8	175.9	<0.5	14	0.03	0.019
3202960 Rock Pulp	0.05	2.5	212.0	18655.5	30039	35.2	24.6	19.2	1761	5.58	86	1.7	7.4	24	98.7	49.9	<0.5	12	5.26	0.054
3202961 Drill Core	2.42	29.8	66.3	475.4	210	6.2	80.8	11.7	125	19.21	508	7.4	0.6	14	3.3	135.6	<0.5	18	0.01	0.011
3202962 Drill Core	2.00	31.1	53.4	472.0	117	5.9	74.5	10.1	103	17.95	466	7.6	<0.5	15	1.8	127.4	<0.5	17	0.01	0.013
3202963 Drill Core	4.15	51.6	82.7	520.5	8964	7.0	115.6	12.3	85	15.91	314	8.6	<0.5	12	56.8	124.3	<0.5	24	<0.01	0.009
3202964 Drill Core	5.15	61.3	224.2	738.6	2281	7.1	122.9	11.9	85	21.52	531	12.7	<0.5	22	110.5	156.6	<0.5	37	<0.01	0.010
3202965 Drill Core	4.13	37.9	113.7	564.3	315	5.5	120.0	15.6	96	17.69	580	9.2	<0.5	18	184.0	127.7	<0.5	33	0.01	0.013
3202966 Drill Core	5.30	15.2	145.6	1014.9	14859	11.1	244.8	51.0	33	25.27	583	6.4	0.6	28	115.9	217.9	<0.5	27	0.03	0.019
3202967 Drill Core	4.93	2.0	111.9	1750.7	1063	10.5	140.5	31.1	31	30.36	1661	3.7	<0.5	21	10.9	299.3	<0.5	19	<0.01	0.011
3202968 Drill Core	2.43	25.7	213.8	1401.9	6251	10.3	129.1	28.2	44	25.95	1305	52.9	1.7	211	115.9	283.5	<0.5	90	0.07	0.089
3202969 Drill Core	5.32	5.9	116.5	9959.2	6339	30.4	344.4	39.3	219	28.01	423	6.1	0.8	112	53.7	302.1	<0.5	36	0.11	0.062
3202970 Drill Core	4.98	4.6	78.7	1445.0	8406	8.2	418.4	41.8	149	23.24	387	9.3	0.7	166	60.7	155.9	<0.5	38	0.15	0.094
3202971 Drill Core	4.88	5.7	83.5	1088.3	1577	8.5	483.3	53.2	231	25.25	421	7.0	1.0	102	31.2	173.3	<0.5	37	0.10	0.061
3202972 Drill Core	5.52	1.4	108.4	1352.9	2366	12.6	369.3	40.4	271	34.69	520	1.7	0.8	166	20.6	220.5	<0.5	31	0.23	0.115
3202973 Drill Core	5.10	3.7	98.3	1399.3	6155	12.6	402.8	44.9	173	29.84	568	1.0	0.5	262	43.4	247.3	<0.5	37	0.36	0.155
3202974 Drill Core	5.87	2.3	96.5	1258.9	7585	12.4	492.1	50.4	222	28.25	481	3.2	<0.5	231	68.2	218.2	<0.5	36	0.32	0.146
3202975 Drill Core	5.33	1.5	76.9	1418.7	3097	12.4	462.4	57.1	202	32.01	565	1.9	<0.5	232	25.1	213.6	<0.5	38	0.34	0.146
3202976 Drill Core	6.68	1.2	100.0	1525.1	20215	14.9	440.0	43.0	256	35.26	668	1.8	<0.5	299	155.2	242.8	<0.5	40	0.42	0.189
3202977 Drill Core	5.81	1.4	76.9	1295.5	6146	10.9	448.2	55.1	270	26.84	479	<0.5	<0.5	311	35.5	152.2	<0.5	36	0.35	0.156



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Project: MacMillan Pass
Report Date: February 19, 2021

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CERTIFICATE OF ANALYSIS

WHI20000559.1

	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
3202957	Drill Core	0.8	12.5	<0.01	67	0.001	0.19	<0.01	0.03	<0.5	41.89	0.5	11.2	>30	<5	<2	27.14	1.45	43.74	0.02	0.04
3202958	Drill Core	0.9	11.2	<0.01	49	0.001	0.22	<0.01	0.03	<0.5	6.27	<0.5	5.4	>30	<5	<2	32.82	1.91	41.34	0.05	0.03
3202959	Drill Core	0.6	8.9	<0.01	70	0.001	0.18	<0.01	0.03	<0.5	3.90	<0.5	5.0	25.60	<5	<2	44.70	1.84	33.39	0.05	0.04
3202960	Rock Pulp	24.4	13.6	2.82	139	0.018	1.01	0.01	0.73	0.7	1.31	2.7	27.3	4.82	<5	<2	43.59	8.74	8.21	7.45	5.36
3202961	Drill Core	1.0	12.7	<0.01	86	0.001	0.24	<0.01	0.04	<0.5	3.87	<0.5	4.6	20.92	<5	<2	51.98	2.61	28.07	0.03	0.05
3202962	Drill Core	0.6	10.7	<0.01	97	0.001	0.21	<0.01	0.04	<0.5	3.19	<0.5	5.3	19.93	<5	<2	54.20	2.32	26.16	0.02	0.05
3202963	Drill Core	0.6	12.4	<0.01	89	0.001	0.21	<0.01	0.04	<0.5	15.89	0.6	6.0	17.97	<5	<2	55.09	2.32	22.90	0.01	0.04
3202964	Drill Core	0.8	17.4	<0.01	57	0.001	0.26	<0.01	0.04	<0.5	7.48	0.8	7.1	23.49	<5	<2	44.70	2.34	31.17	0.01	0.04
3202965	Drill Core	0.9	25.7	<0.01	66	0.002	0.23	<0.01	0.04	<0.5	5.16	0.8	5.2	19.37	<5	<2	54.22	2.22	25.06	0.02	0.05
3202966	Drill Core	1.0	47.5	<0.01	55	0.006	0.28	<0.01	0.05	<0.5	23.63	1.1	10.7	28.40	<5	<2	36.02	3.08	35.92	0.05	0.05
3202967	Drill Core	0.5	13.6	<0.01	42	0.001	0.27	<0.01	0.05	<0.5	5.92	1.0	9.3	>30	<5	<2	28.36	2.72	42.58	0.01	0.05
3202968	Drill Core	5.6	37.8	<0.01	50	0.002	0.48	<0.01	0.06	2.1	15.53	4.3	10.9	29.01	11	<2	31.82	4.38	37.51	0.11	0.07
3202969	Drill Core	1.3	99.1	<0.01	64	0.003	0.38	<0.01	0.05	<0.5	15.38	1.8	3.3	29.70	<5	<2	29.65	4.18	39.41	0.14	0.04
3202970	Drill Core	1.3	98.4	<0.01	73	0.003	0.44	<0.01	0.06	<0.5	15.92	1.9	2.9	25.67	<5	<2	37.20	5.30	33.04	0.21	0.07
3202971	Drill Core	1.4	115.4	<0.01	73	0.003	0.43	<0.01	0.06	<0.5	9.68	1.7	2.8	26.94	<5	<2	33.66	5.46	35.06	0.14	0.08
3202972	Drill Core	0.8	113.8	<0.01	73	0.004	0.41	<0.01	0.06	<0.5	20.77	0.9	3.2	>30	<5	<2	19.70	3.24	47.62	0.31	0.03
3202973	Drill Core	1.0	132.6	0.01	193	0.005	0.51	<0.01	0.09	<0.5	18.40	1.1	5.1	>30	<5	<2	25.41	4.53	41.85	0.50	0.06
3202974	Drill Core	0.8	127.5	<0.01	86	0.004	0.44	<0.01	0.07	<0.5	21.59	0.9	3.8	>30	<5	<2	29.46	4.31	39.07	0.44	0.06
3202975	Drill Core	0.8	141.1	0.01	72	0.005	0.43	<0.01	0.07	<0.5	12.82	0.8	3.8	>30	<5	<2	21.80	4.31	44.72	0.45	0.05
3202976	Drill Core	0.5	150.9	0.01	84	0.005	0.44	<0.01	0.08	<0.5	42.31	0.6	3.5	>30	<5	<2	14.54	2.92	49.55	0.59	0.04
3202977	Drill Core	1.0	134.4	0.01	64	0.004	0.47	<0.01	0.08	<0.5	19.60	0.8	2.5	28.54	<5	<2	28.86	5.78	37.80	0.49	0.09



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Project: MacMillan Pass
Report Date: February 19, 2021

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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
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
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	0.15
3202957 Drill Core	0.15	0.01	0.09	0.04	<0.01	0.34	0.01	0.09	2.03	23.85	99.60	0.01	0.97	35.85	0.95	<0.02	<0.08	22.97	38.59
3202958 Drill Core	0.20	0.02	0.11	0.04	<0.01	0.41	<0.01	0.09	0.11	21.54	98.80	0.01	0.45	33.48	0.43	<0.02	<0.08	22.91	31.67
3202959 Drill Core	0.19	<0.01	0.09	0.05	<0.01	0.41	<0.01	0.07	0.02	18.04	98.97	0.01	0.91	26.92	0.88	0.03	<0.08	18.78	24.39
3202960 Rock Pulp	4.20	0.24	0.29	0.13	<0.01	0.08	0.02	1.84	3.10	14.20	98.61	<0.01	3.21	4.91	0.33	<0.02	10.58	1.18	11.17
3202961 Drill Core	0.31	0.02	0.14	0.03	<0.01	0.56	<0.01	0.05	0.02	15.97	99.95	0.01	1.85	22.75	1.59	0.24	<0.08	17.55	15.58
3202962 Drill Core	0.28	0.01	0.13	0.04	<0.01	0.49	<0.01	0.04	<0.01	15.15	99.02	0.01	2.08	20.82	1.64	0.44	<0.08	17.37	10.34
3202963 Drill Core	0.28	0.02	0.14	0.02	<0.01	0.51	<0.01	0.05	0.88	15.39	97.99	0.02	3.54	19.79	2.78	0.75	<0.08	15.83	11.86
3202964 Drill Core	0.28	0.01	0.15	0.03	<0.01	0.56	0.02	0.08	0.23	19.72	99.54	0.03	3.71	25.89	3.26	0.44	<0.08	19.48	19.20
3202965 Drill Core	0.28	0.01	0.14	0.04	<0.01	0.52	<0.01	0.04	0.03	15.38	98.12	0.02	2.41	21.95	2.35	0.04	<0.08	16.81	15.40
3202966 Drill Core	0.36	<0.01	0.61	0.07	0.02	0.72	<0.01	0.09	1.44	19.81	98.77	0.02	0.72	31.00	0.69	<0.02	<0.08	23.69	21.90
3202967 Drill Core	0.35	<0.01	0.14	0.04	<0.01	0.57	<0.01	0.17	0.10	22.61	97.84	0.01	0.27	37.21	0.26	<0.02	<0.08	25.47	35.17
3202968 Drill Core	0.48	<0.01	0.26	0.28	<0.01	0.81	0.02	0.14	0.61	22.06	98.86	0.04	1.98	31.59	1.94	<0.02	<0.08	21.65	29.78
3202969 Drill Core	0.44	0.03	0.90	0.17	0.06	0.95	<0.01	0.96	0.63	21.24	99.21	0.02	0.75	33.03	0.73	0.02	<0.08	24.23	26.36
3202970 Drill Core	0.55	0.03	1.08	0.24	0.07	1.24	<0.01	0.14	0.83	18.04	98.47	0.03	0.77	27.97	0.71	0.04	<0.08	20.64	21.96
3202971 Drill Core	0.55	0.03	1.17	0.18	0.07	1.26	<0.01	0.10	0.15	19.43	97.63	0.04	0.69	28.86	0.63	0.04	<0.08	22.29	19.68
3202972 Drill Core	0.33	0.03	0.70	0.27	0.04	0.75	0.01	0.14	0.23	25.23	98.86	0.02	0.55	38.68	0.52	0.02	<0.08	27.61	33.17
3202973 Drill Core	0.46	0.03	1.12	0.42	0.07	1.07	<0.01	0.14	0.61	22.19	98.86	0.03	0.59	33.78	0.50	0.08	<0.08	25.25	25.56
3202974 Drill Core	0.46	0.03	1.03	0.38	0.07	1.02	<0.01	0.13	0.73	20.73	98.33	0.03	0.56	33.72	0.48	0.06	<0.08	25.32	25.17
3202975 Drill Core	0.45	0.02	1.11	0.41	0.07	1.00	<0.01	0.14	0.31	23.88	99.00	0.03	0.43	36.25	0.41	<0.02	<0.08	24.91	33.97
3202976 Drill Core	0.30	0.03	0.74	0.49	0.05	0.67	<0.01	0.16	2.04	26.01	98.80	0.02	0.40	40.06	0.36	0.02	<0.08	24.59	46.35
3202977 Drill Core	0.59	0.04	1.46	0.40	0.10	1.34	<0.01	0.13	0.62	20.37	98.49	0.03	0.43	31.19	0.40	0.02	<0.08	23.70	22.44



Bureau Veritas Commodities Canada Ltd.

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QUALITY CONTROL REPORT

WHI20000559.1

	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
3202935	Drill Core	5.22	6.4	214.7	1007.7	78868	17.6	51.6	5.0	127	8.92	349	1.5	<0.5	68	586.0	197.9	<0.5	16	0.05	0.030
Pulp Duplicates																					
3202929	Drill Core	7.35	4.0	225.6	1422.3	130170	40.7	17.5	3.0	181	31.58	323	<0.5	<0.5	<5	1193.0	229.8	<0.5	<10	<0.01	<0.001
REP 3202929	QC		3.6	221.9	1404.8	131780	40.9	15.8	2.9	179	31.88	319	<0.5	<0.5	<5	1199.7	229.8	<0.5	<10	<0.01	<0.001
3202930	Drill Core	6.56	14.8	408.7	9833.4	111076	71.3	28.5	6.4	120	31.74	542	1.5	<0.5	6	702.9	382.6	<0.5	<10	<0.01	0.003
REP 3202930	QC																				
3202937	Drill Core	4.53	2.3	28.4	89.9	1801	1.1	42.6	7.0	57	2.26	79	1.3	1.0	277	12.5	22.4	<0.5	29	0.11	0.053
REP 3202937	QC																				
3202952	Drill Core	4.45	14.5	435.3	411.4	5118	2.9	46.2	5.4	65	6.02	213	16.0	1.7	39	45.2	59.9	<0.5	33	0.01	0.026
REP 3202952	QC																				
3202954	Drill Core	3.35	11.3	85.5	208.4	6662	3.1	53.0	5.6	65	6.44	239	2.9	0.7	24	66.3	54.0	<0.5	27	0.01	0.012
REP 3202954	QC																				
3202960	Rock Pulp	0.05	2.5	212.0	18655.5	30039	35.2	24.6	19.2	1761	5.58	86	1.7	7.4	24	98.7	49.9	<0.5	12	5.26	0.054
REP 3202960	QC		2.5	213.0	18446.1	29817	37.1	23.9	17.7	1762	5.56	86	1.8	7.5	24	100.0	51.6	<0.5	12	5.21	0.052
3202965	Drill Core	4.13	37.9	113.7	564.3	315	5.5	120.0	15.6	96	17.69	580	9.2	<0.5	18	184.0	127.7	<0.5	33	0.01	0.013
REP 3202965	QC																				
REP 3202966	QC		15.5	138.4	1016.2	14878	11.1	234.6	50.0	34	24.90	595	6.4	0.5	28	114.2	223.1	<0.5	27	0.03	0.019
REP 3202966	QC																				
3202967	Drill Core	4.93	2.0	111.9	1750.7	1063	10.5	140.5	31.1	31	30.36	1661	3.7	<0.5	21	10.9	299.3	<0.5	19	<0.01	0.011
REP 3202967	QC																				
3202973	Drill Core	5.10	3.7	98.3	1399.3	6155	12.6	402.8	44.9	173	29.84	568	1.0	0.5	262	43.4	247.3	<0.5	37	0.36	0.155
REP 3202973	QC																				
3202975	Drill Core	5.33	1.5	76.9	1418.7	3097	12.4	462.4	57.1	202	32.01	565	1.9	<0.5	232	25.1	213.6	<0.5	38	0.34	0.146
REP 3202975	QC																				
3202976	Drill Core	6.68	1.2	100.0	1525.1	20215	14.9	440.0	43.0	256	35.26	668	1.8	<0.5	299	155.2	242.8	<0.5	40	0.42	0.189
REP 3202976	QC																				
3202977	Drill Core	5.81	1.4	76.9	1295.5	6146	10.9	448.2	55.1	270	26.84	479	<0.5	<0.5	311	35.5	152.2	<0.5	36	0.35	0.156
REP 3202977	QC																				
Core Reject Duplicates																					



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QUALITY CONTROL REPORT

WHI20000559.1

	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
3202935	Drill Core	0.9	23.2	<0.01	101	0.001	0.24	<0.01	0.02	<0.5	115.04	0.8	3.4	13.39	7	4	65.19	1.26	12.64	0.08	0.03
Pulp Duplicates																					
3202929	Drill Core	<0.5	6.9	<0.01	82	<0.001	0.02	<0.01	<0.01	10.9	204.18	<0.5	11.8	>30	9	3	10.24	0.09	45.35	<0.01	<0.01
REP 3202929	QC	<0.5	6.6	<0.01	81	<0.001	0.02	<0.01	<0.01	11.8	202.21	<0.5	12.3	>30	10	3					
3202930	Drill Core	<0.5	12.7	<0.01	30	<0.001	0.03	<0.01	<0.01	<0.5	173.14	<0.5	13.3	>30	6	7	11.55	0.09	45.99	<0.01	<0.01
REP 3202930	QC																				
3202937	Drill Core	2.7	18.9	<0.01	3231	0.002	1.90	0.01	0.07	<0.5	3.02	1.8	2.7	1.32	<5	<2	79.63	6.13	3.26	0.16	0.06
REP 3202937	QC																79.79	6.12	3.25	0.16	0.07
3202952	Drill Core	2.3	23.9	<0.01	200	0.002	0.25	<0.01	0.04	<0.5	9.70	1.3	1.8	6.67	<5	<2	79.72	1.95	8.60	0.03	0.04
REP 3202952	QC																				
3202954	Drill Core	1.5	19.0	<0.01	368	0.002	0.27	<0.01	0.05	<0.5	13.78	0.8	2.2	7.27	<5	<2	77.43	2.47	9.22	0.02	0.06
REP 3202954	QC																				
3202960	Rock Pulp	24.4	13.6	2.82	139	0.018	1.01	0.01	0.73	0.7	1.31	2.7	27.3	4.82	<5	<2	43.59	8.74	8.21	7.45	5.36
REP 3202960	QC	24.7	14.1	2.83	148	0.018	1.02	0.01	0.74	0.7	1.23	3.3	27.4	4.84	<5	<2					
3202965	Drill Core	0.9	25.7	<0.01	66	0.002	0.23	<0.01	0.04	<0.5	5.16	0.8	5.2	19.37	<5	<2	54.22	2.22	25.06	0.02	0.05
REP 3202965	QC																				
REP 3202966	QC	1.4	46.6	<0.01	54	0.003	0.26	<0.01	0.04	<0.5	23.68	0.7	10.5	28.04	<5	<2	36.01	3.09	36.16	0.05	0.05
REP 3202966	QC																				
3202967	Drill Core	0.5	13.6	<0.01	42	0.001	0.27	<0.01	0.05	<0.5	5.92	1.0	9.3	>30	<5	<2	28.36	2.72	42.58	0.01	0.05
REP 3202967	QC																				
3202973	Drill Core	1.0	132.6	0.01	193	0.005	0.51	<0.01	0.09	<0.5	18.40	1.1	5.1	>30	<5	<2	25.41	4.53	41.85	0.50	0.06
REP 3202973	QC																				
3202975	Drill Core	0.8	141.1	0.01	72	0.005	0.43	<0.01	0.07	<0.5	12.82	0.8	3.8	>30	<5	<2	21.80	4.31	44.72	0.45	0.05
REP 3202975	QC																				
3202976	Drill Core	0.5	150.9	0.01	84	0.005	0.44	<0.01	0.08	<0.5	42.31	0.6	3.5	>30	<5	<2	14.54	2.92	49.55	0.59	0.04
REP 3202976	QC																				
3202977	Drill Core	1.0	134.4	0.01	64	0.004	0.47	<0.01	0.08	<0.5	19.60	0.8	2.5	28.54	<5	<2	28.86	5.78	37.80	0.49	0.09
REP 3202977	QC																				
Core Reject Duplicates																					



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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	TC010	TC010
		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	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.02	0.15
3202935	Drill Core	0.15	0.02	0.13	0.07	<0.01	0.63	0.02	0.11	7.79	9.07	99.24	0.02	0.81	14.60	0.75	0.04	<0.08	10.31	12.85
Pulp Duplicates																				
3202929	Drill Core	<0.01	0.03	<0.01	<0.01	<0.01	0.02	0.02	0.15	12.98	26.99	99.19	<0.01	0.23	45.08	0.23	<0.02	<0.08	31.60	40.39
REP 3202929	QC																			
3202930	Drill Core	<0.01	0.02	<0.01	<0.01	<0.01	0.10	0.03	0.95	11.21	26.80	99.71	<0.01	0.31	44.41	0.30	<0.02	<0.08	27.74	49.94
REP 3202930	QC													0.32	43.90					
3202937	Drill Core	0.40	0.01	0.36	0.13	<0.01	4.98	<0.01	0.02	0.18	3.41	99.37	0.04	1.14	2.27	0.98	0.14	<0.08	1.49	2.32
REP 3202937	QC	0.41	0.01	0.36	0.14	<0.01	5.01	<0.01	0.02	0.17	3.41	99.55	0.04						1.59	
3202952	Drill Core	0.24	0.01	0.20	0.07	<0.01	1.14	0.04	0.05	0.51	5.52	98.40	0.02	0.86	6.99	0.83	<0.02	<0.08	5.40	4.78
REP 3202952	QC																	<0.08		
3202954	Drill Core	0.32	0.01	0.22	0.03	<0.01	0.54	<0.01	0.03	0.65	6.03	97.28	0.03	1.05	7.32	1.01	<0.02	<0.08	5.69	4.91
REP 3202954	QC																0.03			
3202960	Rock Pulp	4.20	0.24	0.29	0.13	<0.01	0.08	0.02	1.84	3.10	14.20	98.61	<0.01	3.21	4.91	0.33	<0.02	10.58	1.18	11.17
REP 3202960	QC																			
3202965	Drill Core	0.28	0.01	0.14	0.04	<0.01	0.52	<0.01	0.04	0.03	15.38	98.12	0.02	2.41	21.95	2.35	0.04	<0.08	16.81	15.40
REP 3202965	QC													2.36	21.10					
REP 3202966	QC	0.36	<0.01	0.63	0.06	0.02	0.72	<0.01	0.10	1.44	19.81	99.03	0.02							
REP 3202966	QC																<0.02			
3202967	Drill Core	0.35	<0.01	0.14	0.04	<0.01	0.57	<0.01	0.17	0.10	22.61	97.84	0.01	0.27	37.21	0.26	<0.02	<0.08	25.47	35.17
REP 3202967	QC																		25.06	
3202973	Drill Core	0.46	0.03	1.12	0.42	0.07	1.07	<0.01	0.14	0.61	22.19	98.86	0.03	0.59	33.78	0.50	0.08	<0.08	25.25	25.56
REP 3202973	QC																		23.96	
3202975	Drill Core	0.45	0.02	1.11	0.41	0.07	1.00	<0.01	0.14	0.31	23.88	99.00	0.03	0.43	36.25	0.41	<0.02	<0.08	24.91	33.97
REP 3202975	QC																<0.02			
3202976	Drill Core	0.30	0.03	0.74	0.49	0.05	0.67	<0.01	0.16	2.04	26.01	98.80	0.02	0.40	40.06	0.36	0.02	<0.08	24.59	46.35
REP 3202976	QC													0.40	41.31					
3202977	Drill Core	0.59	0.04	1.46	0.40	0.10	1.34	<0.01	0.13	0.62	20.37	98.49	0.03	0.43	31.19	0.40	0.02	<0.08	23.70	22.44
REP 3202977	QC																		24.39	
Core Reject Duplicates																				



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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
3202932	Drill Core	4.74	18.7	47.2	582.8	634	5.8	381.3	36.1	114	6.98	184	2.8	0.7	381	4.1	75.0	<0.5	49	0.37	0.178
DUP 3202932	QC		18.5	48.1	628.8	609	6.1	391.0	36.9	112	6.93	186	2.9	0.8	398	3.9	73.3	<0.5	54	0.37	0.167
3202966	Drill Core	5.30	15.2	145.6	1014.9	14859	11.1	244.8	51.0	33	25.27	583	6.4	0.6	28	115.9	217.9	<0.5	27	0.03	0.019
DUP 3202966	QC		15.6	142.4	1008.9	15016	11.1	241.8	49.6	33	25.43	577	6.6	0.6	28	117.5	220.3	<0.5	29	0.03	0.020
Reference Materials																					
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD GGC-09	Standard																				
STD GGC-09	Standard																				
STD GGC-09	Standard																				
STD GGC-09	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS314-1	Standard																				
STD GS314-1	Standard																				
STD GS314-1	Standard																				
STD GS314-1	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD OREAS135	Standard		8.4	296.7	18033.2	28292	55.5	35.4	29.8	4070	8.97	969	10.0	11.2	29	74.3	41.9	5.4	34	1.96	0.095
STD OREAS133B(D)	Standard																				



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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
3202932	Drill Core	2.0	70.9	0.01	516	0.003	3.78	0.02	0.15	<0.5	2.48	4.7	6.4	5.79	6	<2	55.78	11.15	9.87	0.48	0.14
DUP 3202932	QC	2.0	75.8	0.01	527	0.004	3.76	0.02	0.16	<0.5	2.62	4.6	6.5	5.66	6	3	56.94	11.31	10.12	0.49	0.14
3202966	Drill Core	1.0	47.5	<0.01	55	0.006	0.28	<0.01	0.05	<0.5	23.63	1.1	10.7	28.40	<5	<2	36.02	3.08	35.92	0.05	0.05
DUP 3202966	QC	0.9	49.6	<0.01	77	0.003	0.29	<0.01	0.05	<0.5	25.09	0.9	10.4	28.25	<5	<2	36.22	3.11	36.20	0.04	0.06
Reference Materials																					
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD GGC-09	Standard																				
STD GGC-09	Standard																				
STD GGC-09	Standard																				
STD GGC-09	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS314-1	Standard																				
STD GS314-1	Standard																				
STD GS314-1	Standard																				
STD GS314-1	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD OREAS135	Standard	40.1	21.2	0.87	423	0.028	1.13	0.02	0.54	3.5	1.03	3.8	6.9	7.35	5	<2					
STD OREAS133B(D)	Standard																33.80	6.89	11.59	5.32	3.77



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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 %
		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
3202932	Drill Core	0.79	0.02	0.94	0.40	0.05	9.16	<0.01	0.08	0.06	7.64	97.70	0.06	1.61	8.05	1.52	0.08	<0.08	5.56	7.45
DUP 3202932	QC	0.80	0.02	0.94	0.41	0.05	9.37	<0.01	0.08	0.06	7.77	99.67	0.06	1.58	8.15	1.46	0.10	<0.08	5.08	9.20
3202966	Drill Core	0.36	<0.01	0.61	0.07	0.02	0.72	<0.01	0.09	1.44	19.81	98.77	0.02	0.72	31.00	0.69	<0.02	<0.08	23.69	21.90
DUP 3202966	QC	0.36	<0.01	0.62	0.07	0.02	0.72	<0.01	0.10	1.47	19.78	99.30	0.02	0.61	31.55	0.58	<0.02	<0.08	22.23	27.92
Reference Materials																				
STD COO2	Standard																		3.53	
STD COO2	Standard																		3.55	
STD COO2	Standard																		3.50	
STD COO2	Standard																		3.53	
STD GGC-09	Standard																	2.27		
STD GGC-09	Standard																	2.45		
STD GGC-09	Standard																	2.21		
STD GGC-09	Standard																	2.29		
STD GGC-10	Standard																	4.47		
STD GGC-10	Standard																	4.16		
STD GS311-1	Standard													0.94	2.29					
STD GS311-1	Standard													0.95	2.32					
STD GS311-1	Standard													0.95	2.57					
STD GS311-1	Standard													0.99	2.26					
STD GS314-1	Standard													1.30	29.86					
STD GS314-1	Standard													1.27	28.90					
STD GS314-1	Standard													1.28	29.50					
STD GS314-1	Standard													1.34	29.83					
STD GS910-4	Standard													2.59	8.90					
STD GS910-4	Standard													2.60	8.25					
STD GS910-4	Standard													2.63	8.23					
STD GS910-4	Standard													2.67	8.15					
STD OREAS135	Standard																			
STD OREAS133B(D)	Standard	3.47	0.16	0.23	0.10	<0.01	0.08	0.03	5.06	11.38	13.03	98.30	<0.01							



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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 OREAS133B(D)	Standard																			
STD OREAS133B(D)	Standard																			
STD OREAS605	Standard		4.9	49702.1	891.0	2225	975.8	1597.1	101.0	85	3.77	1688	0.9	2.8	52	14.8	312.5	19.9	<10	0.19
STD OREAS605	Standard		4.9	51771.4	889.7	2108	>1000	1540.0	93.8	84	3.73	1702	0.9	2.6	53	14.3	303.8	19.5	<10	0.19
STD OREAS605	Standard		4.7	48949.1	915.3	2199	970.4	1576.8	106.5	94	3.71	1641	0.9	3.9	50	14.9	311.6	19.5	<10	0.19
STD OREAS605	Standard		4.9	50736.9	885.4	2189	990.1	1634.2	97.8	87	3.77	1693	1.1	3.0	53	14.6	314.4	22.0	<10	0.18
STD OREAS72B	Standard																			
STD OREAS72B	Standard																			
STD OREAS72B	Standard																			
STD OREAS927-AR	Standard		1.0	10893.7	232.7	772	4.5	31.9	30.1	1101	8.31	13	1.7	13.5	14	1.3	1.3	68.3	34	0.31
STD OREAS927-AR	Standard		0.9	10741.7	217.8	753	5.1	28.1	31.8	1103	8.25	13	1.6	12.8	12	1.0	1.4	61.6	34	0.31
STD OREAS927-AR	Standard		1.2	10810.0	226.7	722	4.8	29.3	28.5	1054	8.23	16	1.9	13.1	14	1.0	1.4	74.4	33	0.29
STD RTS-3A	Standard																			
STD RTS-3A	Standard																			
STD RTS-3A	Standard																			
STD RTS-3A	Standard																			
STD SY-4(D)	Standard																			
STD SY-4(D)	Standard																			
STD SY-4(D)	Standard																			
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 GGC-10 Expected																				
STD SY-4(D) Expected																				
STD OREAS72B Expected																				
STD OREAS133B(D) Expected																				
STD GS311-1 Expected																				
STD GS910-4 Expected																				
STD GS314-1 Expected																				
STD GGC-09 Expected																				
STD COO2 Expected																				



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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 OREAS133B(D)	Standard																33.83	6.89	11.60	5.32	3.78
STD OREAS133B(D)	Standard																33.60	6.81	11.47	5.26	3.78
STD OREAS605	Standard	7.9	27.3	0.03	197	0.011	0.72	0.03	0.15	7.3	1.51	1.1	16.1	7.85	6	78					
STD OREAS605	Standard	8.1	27.8	0.03	160	0.010	0.76	0.03	0.16	7.3	1.96	1.0	15.7	7.82	8	87					
STD OREAS605	Standard	7.6	33.1	0.03	139	0.010	0.71	0.03	0.15	7.7	1.74	1.4	16.4	7.77	7	81					
STD OREAS605	Standard	8.5	29.3	0.03	230	0.010	0.74	0.03	0.14	8.1	1.93	0.8	17.6	7.65	7	79					
STD OREAS72B	Standard																51.05	8.97	9.90	3.97	16.08
STD OREAS72B	Standard																51.02	8.96	9.89	3.97	16.08
STD OREAS72B	Standard																51.07	9.00	9.88	3.97	16.06
STD OREAS927-AR	Standard	26.4	41.7	1.93	47	0.079	3.26	<0.01	0.27	5.2	<0.05	4.4	<0.5	1.88	10	17					
STD OREAS927-AR	Standard	25.6	40.6	1.93	45	0.085	3.20	<0.01	0.26	5.0	0.07	4.6	<0.5	1.83	8	15					
STD OREAS927-AR	Standard	25.6	38.9	1.95	42	0.076	3.33	<0.01	0.25	5.7	0.12	4.6	<0.5	1.73	9	16					
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD SY-4(D)	Standard																49.95	20.86	6.19	8.03	0.53
STD SY-4(D)	Standard																50.14	20.84	6.21	7.98	0.53
STD SY-4(D)	Standard																50.08	20.85	6.20	7.99	0.53
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 GGC-10 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 GS311-1 Expected																					
STD GS910-4 Expected																					
STD GS314-1 Expected																					
STD GGC-09 Expected																					
STD COO2 Expected																					



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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 %
		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
STD OREAS133B(D)	Standard	3.48	0.16	0.21	0.10	<0.01	0.08	0.03	5.06	11.37	13.03	98.31	<0.01							
STD OREAS133B(D)	Standard	3.43	0.15	0.19	0.09	<0.01	0.07	0.02	5.06	11.35	13.03	97.69	<0.01							
STD OREAS605	Standard																			
STD OREAS605	Standard																			
STD OREAS605	Standard																			
STD OREAS605	Standard																			
STD OREAS72B	Standard	1.32	0.13	0.35	0.06	0.14	0.03	0.02	<0.01	<0.01	5.28	98.61	0.01							
STD OREAS72B	Standard	1.31	0.13	0.35	0.06	0.14	0.03	0.02	<0.01	<0.01	5.12	98.39	0.01							
STD OREAS72B	Standard	1.33	0.13	0.35	0.06	0.14	0.03	0.02	<0.01	0.01	5.12	98.47	0.02							
STD OREAS927-AR	Standard																			
STD OREAS927-AR	Standard																			
STD OREAS927-AR	Standard																			
STD RTS-3A	Standard																		7.25	
STD RTS-3A	Standard																		6.84	
STD RTS-3A	Standard																		6.74	
STD RTS-3A	Standard																		6.95	
STD SY-4(D)	Standard	1.66	0.11	0.30	0.14	<0.01	0.04	<0.01	<0.01	0.01	4.56	99.55	<0.01							
STD SY-4(D)	Standard	1.67	0.11	0.30	0.14	<0.01	0.04	<0.01	0.02	0.01	4.56	99.68	<0.01							
STD SY-4(D)	Standard	1.65	0.11	0.30	0.14	<0.01	0.04	<0.01	<0.01	0.01	4.56	99.59	<0.01							
STD OREAS135 Expected																				
STD GGC-10 Expected																		4.79		
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 GS311-1 Expected														1.02	2.35					
STD GS910-4 Expected														2.65	8.27					
STD GS314-1 Expected														1.41	29.11					
STD GGC-09 Expected																		2.41		
STD COO2 Expected																			3.43	



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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 RTS-3A 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
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
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank		<0.5	<0.5	1.2	<5	<0.5	<0.5	<0.5	<5	0.02	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<10	<0.01
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																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
SI BLK	Blank																			
SI BLK	Blank																			
SI BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
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
Prep Wash																				
ROCK-WHI	Prep Blank		5.8	1.9	2.3	25	<0.5	0.8	3.2	423	1.84	<5	<0.5	2.5	26	<0.5	<0.5	<0.5	22	0.63
ROCK-WHI	Prep Blank		0.9	2.6	2.0	28	<0.5	1.1	3.3	418	1.76	<5	<0.5	2.4	24	<0.5	<0.5	<0.5	21	0.68



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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 RTS-3A 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					
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	<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																				
BLK	Blank																				
BLK	Blank																				
SI BLK	Blank																99.12	0.29	0.02	<0.01	<0.01
SI BLK	Blank																99.10	0.32	0.01	<0.01	<0.01
SI BLK	Blank																99.74	0.30	0.02	<0.01	0.01
BLK	Blank																				
BLK	Blank																				
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	0.06	<0.5	<0.5	<0.05	<5	<2					
Prep Wash																					
ROCK-WHI	Prep Blank	7.2	4.8	0.43	70	0.097	0.84	0.09	0.10	<0.5	<0.05	3.1	<0.5	<0.05	<5	<2	71.10	13.72	3.05	2.28	0.74
ROCK-WHI	Prep Blank	6.7	4.1	0.46	56	0.098	0.88	0.10	0.11	<0.5	<0.05	3.1	<0.5	<0.05	<5	<2	71.18	13.85	2.90	2.30	0.78



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		LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC010	TC010	
		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	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.02	0.15
STD RTS-3A Expected		7																		
STD OREAS605 Expected																				
STD OREAS927-AR Expected																				
BLK	Blank	<0.02 <0.02																		
BLK	Blank	<0.02 <0.02																		
BLK	Blank	<0.02 0.02																		
BLK	Blank																			
BLK	Blank																			
BLK	Blank	<0.02																		
BLK	Blank	<0.02																		
BLK	Blank	<0.02																		
BLK	Blank	0.06																		
SI BLK	Blank	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	99.43	<0.01							
SI BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	99.42	<0.01							
SI BLK	Blank	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	100.08	<0.01							
BLK	Blank	<0.02 <0.02																		
BLK	Blank	<0.02																		
BLK	Blank	<0.08																		
BLK	Blank	<0.08																		
BLK	Blank	<0.02																		
BLK	Blank																			
Prep Wash																				
ROCK-WHI	Prep Blank	1.95	0.08	0.31	0.07	<0.01	0.08	<0.01	<0.01	<0.01	1.11	99.01	<0.01	0.06	0.02	<0.02	<0.02	0.22	<0.02	<0.15
ROCK-WHI	Prep Blank	1.96	0.08	0.32	0.08	<0.01	0.08	<0.01	<0.01	<0.01	0.97	99.05	<0.01	0.06	<0.02	<0.02	<0.02	0.23	<0.02	<0.15