



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 05, 2020
Analysis Start: January 08, 2021
Report Date: January 24, 2021
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CERTIFICATE OF ANALYSIS

WHI20000513.1

CLIENT JOB INFORMATION

Project: MacMillan Pass
Shipment ID: FWZ20-BV-002
P.O. Number
Number of Samples: 50

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	1	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	50	1:1:1 Aqua Regia digestion ICP-ES/ICP-MS analysis	1	Completed	VAN
LF725	50	Li2B4O7/LiBO2 fusion, analysis by XRF			VAN
SHP01	50	Per sample shipping charges for branch shipments			VAN
TC000	50	Total C/S Analysis by Leco	0.1	Completed	VAN
TC007	50	Graphite and Organic C by Leco After Ignition	0.1	Completed	VAN
TC006	50	Inorganic Carbon	0.2	Completed	VAN
TC010	50	Analysis by Leco after sodium carbonate leach	0.1	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:



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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Canada

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CERTIFICATE OF ANALYSIS

WHI20000513.1

	Method	Analyte	Unit	MDL	WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270			
					Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
					kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
3205001	Drill Core	7.55	11.9	20.1	8101.9	133	6.7	6.0	0.7	40	0.70	27	2.2	1.0	57	1.0	88.1	<0.5	26	0.05	0.006			
3205002	Drill Core	2.42	15.7	23.3	449.7	354	4.5	24.8	3.9	17	3.45	50	7.8	1.5	27	0.9	118.1	0.5	30	0.03	0.014			
3205003	Drill Core	3.03	20.2	110.8	698.4	2026	5.5	109.5	14.4	53	12.04	324	4.6	1.2	54	19.5	119.3	<0.5	33	0.08	0.051			
3205004	Drill Core	3.76	3.3	405.6	1017.9	150044	16.2	173.0	36.1	34	16.95	621	5.4	0.6	74	1153.5	125.3	<0.5	24	0.14	0.105			
3205005	Drill Core	3.16	2.1	140.0	816.8	92036	11.9	195.5	38.2	30	18.51	563	3.7	0.8	85	649.6	121.0	<0.5	27	0.13	0.082			
3205006	Drill Core	3.98	2.7	217.3	1024.0	188717	18.6	192.1	78.1	27	13.51	599	5.6	0.9	133	1282.8	115.4	<0.5	26	0.22	0.129			
3205007	Drill Core	5.75	2.0	130.3	1061.4	61769	14.0	246.8	73.2	24	24.92	774	2.7	0.6	90	485.9	136.7	<0.5	23	0.13	0.073			
3205008	Drill Core	2.90	1.7	67.1	799.5	25965	9.6	140.8	25.5	19	21.08	625	2.8	0.7	87	227.2	94.4	<0.5	18	0.15	0.079			
3205009	Drill Core	2.19	1.9	36.7	415.6	4562	4.4	123.0	18.8	14	12.94	355	6.3	1.2	111	70.8	60.7	<0.5	25	0.15	0.106			
3205010	Drill Core	3.07	1.7	68.9	1580.1	26025	12.7	136.8	14.6	17	16.86	390	2.1	1.0	57	158.6	124.8	<0.5	17	0.10	0.051			
3205011	Drill Core	4.01	2.5	45.0	255.7	957	2.8	98.1	17.8	11	10.91	188	2.2	1.5	58	15.1	72.8	<0.5	23	0.08	0.041			
3205012	Drill Core	2.12	3.2	74.3	70.7	29959	5.8	46.2	13.0	12	1.27	37	1.8	1.6	46	217.5	46.2	<0.5	22	0.05	0.029			
3205013	Drill Core	3.95	4.0	46.9	166.5	15756	3.6	64.9	12.8	16	4.04	106	2.2	2.0	89	139.9	56.9	<0.5	28	0.08	0.048			
3205014	Drill Core	2.79	3.2	85.3	397.4	17838	7.4	112.2	15.4	16	8.58	265	1.3	1.6	71	116.2	92.2	<0.5	21	0.10	0.050			
3205015	Drill Core	2.33	3.2	86.8	352.0	16592	6.1	105.4	15.6	18	11.40	312	1.7	1.3	68	128.1	78.8	<0.5	25	0.08	0.045			
3205016	Drill Core	2.92	5.9	152.1	636.5	48334	15.7	85.4	16.7	26	8.20	276	1.3	1.5	68	332.4	73.5	<0.5	20	0.11	0.053			
3205017	Drill Core	3.57	3.1	103.8	382.5	71841	9.9	121.0	23.9	41	13.95	563	1.1	1.9	72	526.1	84.1	<0.5	20	0.13	0.055			
3205018	Drill Core	4.08	3.7	30.7	88.5	10766	1.9	57.0	20.6	1182	4.59	75	0.8	2.3	76	96.6	37.3	<0.5	38	0.12	0.042			
3205019	Drill Core	5.12	4.6	31.0	122.7	1162	2.3	80.7	17.3	1052	4.97	116	0.8	2.7	73	9.8	47.7	<0.5	44	0.14	0.046			
3205020	Rock Pulp	0.02	3.8	455.9	34300.5	47858	56.2	18.0	44.5	2148	7.17	154	1.6	6.2	25	169.6	48.6	<0.5	10	4.88	0.055			
3205021	Drill Core	3.56	4.3	25.4	86.3	375	2.1	64.5	12.7	874	4.19	74	0.6	2.3	65	2.5	42.1	<0.5	35	0.13	0.042			
3205022	Drill Core	3.38	4.4	16.7	81.2	241	1.7	59.7	11.9	690	3.33	63	0.6	2.6	71	1.5	40.6	<0.5	32	0.13	0.047			
3205023	Drill Core	2.77	4.1	27.2	142.7	4647	3.1	85.2	14.4	213	3.44	114	1.1	2.4	64	38.5	45.0	<0.5	37	0.10	0.052			
3205024	Drill Core	4.37	2.0	40.8	132.9	14375	4.2	85.4	15.0	1866	10.32	204	1.0	1.8	70	102.5	32.8	<0.5	50	0.22	0.079			
3205025	Drill Core	6.44	1.3	199.1	121.0	148631	32.8	60.7	27.8	2927	10.89	137	<0.5	0.9	40	961.3	89.3	<0.5	51	0.16	0.036			
3205026	Drill Core	3.63	2.6	158.6	264.9	90231	30.5	57.4	15.5	1670	7.15	138	0.7	1.3	53	565.9	90.7	<0.5	42	0.14	0.043			
3205027	Drill Core	4.83	2.4	113.7	596.5	120918	18.9	96.0	28.2	935	5.48	231	1.2	1.5	52	644.1	69.6	<0.5	35	0.13	0.054			
3205028	Drill Core	3.66	1.9	226.3	611.3	>200000	39.7	177.2	60.3	638	5.48	447	0.6	0.9	27	1149.8	128.5	<0.5	18	0.08	0.030			
3205029	Drill Core	4.41	1.6	94.8	256.0	133899	21.0	97.8	33.9	377	4.66	268	0.5	1.0	27	756.0	64.2	<0.5	12	0.07	0.031			
3205030	Drill Core	5.50	1.7	131.0	1203.5	176758	45.5	204.2	50.2	59	15.69	717	<0.5	0.7	22	730.4	236.9	<0.5	<10	0.05	0.023			



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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
3205001	Drill Core	2.4	22.0	0.01	>5000	0.002	0.22	<0.01	0.07	18.0	45.18	0.8	3.1	0.23	<5	<2	84.44	5.86	1.12	0.08	0.11
3205002	Drill Core	1.8	9.7	0.01	943	0.001	0.32	<0.01	0.09	6.4	2.61	0.9	4.0	3.41	<5	5	70.28	11.18	5.11	0.06	0.19
3205003	Drill Core	2.4	24.8	<0.01	174	0.001	0.40	<0.01	0.10	<0.5	3.26	1.4	3.3	13.55	<5	3	57.48	7.68	17.03	0.11	0.11
3205004	Drill Core	1.1	23.8	<0.01	65	0.001	0.38	<0.01	0.07	<0.5	96.87	2.4	5.3	26.25	7	5	33.66	3.38	24.19	0.20	0.04
3205005	Drill Core	1.6	24.9	<0.01	82	0.001	0.56	<0.01	0.13	<0.5	61.98	1.9	8.9	25.38	<5	3	33.85	6.70	27.01	0.17	0.10
3205006	Drill Core	1.7	21.6	<0.01	117	0.001	0.41	<0.01	0.09	<0.5	131.26	1.8	5.2	24.03	<5	6	27.62	8.53	19.06	0.30	0.12
3205007	Drill Core	1.1	19.6	<0.01	75	0.001	0.43	<0.01	0.13	<0.5	41.57	1.3	5.3	>30	<5	2	23.81	6.38	36.54	0.18	0.09
3205008	Drill Core	1.4	21.1	<0.01	88	0.001	0.37	<0.01	0.12	<0.5	19.00	1.2	3.8	24.95	<5	<2	40.47	5.56	30.11	0.20	0.09
3205009	Drill Core	2.2	25.0	<0.01	309	0.001	0.46	<0.01	0.13	<0.5	3.52	1.6	2.3	15.18	<5	<2	56.80	8.01	18.88	0.21	0.13
3205010	Drill Core	1.7	17.8	<0.01	96	0.001	0.35	<0.01	0.12	<0.5	19.14	1.0	1.6	20.35	<5	<2	48.48	6.18	24.28	0.14	0.10
3205011	Drill Core	2.7	15.9	<0.01	211	0.001	0.45	<0.01	0.16	<0.5	1.09	1.2	1.4	12.61	<5	<2	58.02	10.30	16.11	0.11	0.16
3205012	Drill Core	3.3	7.6	0.01	594	0.001	0.42	<0.01	0.17	<0.5	20.93	1.1	1.1	2.76	<5	2	70.34	12.46	2.14	0.07	0.20
3205013	Drill Core	4.2	11.5	0.01	669	0.001	0.50	<0.01	0.18	0.7	11.69	1.1	1.5	5.39	<5	3	68.03	12.26	6.10	0.11	0.20
3205014	Drill Core	3.1	8.3	<0.01	274	0.001	0.36	<0.01	0.14	<0.5	11.44	1.0	3.2	10.69	<5	4	62.12	9.34	12.47	0.14	0.16
3205015	Drill Core	2.4	14.4	<0.01	174	0.001	0.46	<0.01	0.16	<0.5	11.24	0.9	2.6	13.69	<5	2	57.15	9.15	16.46	0.11	0.14
3205016	Drill Core	2.8	10.4	0.01	442	0.001	0.38	<0.01	0.14	3.9	34.72	0.9	2.2	11.69	<5	2	59.49	8.82	11.73	0.15	0.14
3205017	Drill Core	3.0	11.3	0.02	88	0.001	0.39	<0.01	0.13	<0.5	45.86	1.2	2.4	19.34	<5	4	43.38	8.66	20.64	0.19	0.14
3205018	Drill Core	3.8	12.0	0.18	613	0.001	0.47	<0.01	0.19	<0.5	9.71	4.4	1.5	1.86	<5	2	65.53	12.95	7.06	0.18	0.48
3205019	Drill Core	4.4	12.8	0.16	705	0.002	0.49	<0.01	0.20	<0.5	0.92	4.9	1.8	2.12	<5	3	65.29	13.64	7.48	0.20	0.46
3205020	Rock Pulp	23.7	15.4	2.70	241	0.016	1.01	0.01	0.65	<0.5	0.54	3.0	42.3	7.77	<5	<2	38.04	7.66	10.79	6.91	4.85
3205021	Drill Core	3.6	11.1	0.12	574	0.001	0.42	<0.01	0.18	<0.5	0.43	4.2	1.4	1.78	<5	<2	70.56	11.73	6.32	0.19	0.39
3205022	Drill Core	4.1	10.8	0.11	647	0.001	0.46	<0.01	0.20	<0.5	0.40	3.9	1.4	1.46	<5	2	71.09	12.15	5.15	0.18	0.35
3205023	Drill Core	3.7	12.1	0.05	735	0.001	0.59	<0.01	0.18	<0.5	2.93	2.3	1.5	3.21	<5	3	71.90	11.75	5.30	0.15	0.25
3205024	Drill Core	2.3	18.8	0.26	461	0.001	0.52	<0.01	0.15	<0.5	9.32	4.7	1.4	5.65	<5	<2	58.44	8.82	15.46	0.31	0.57
3205025	Drill Core	1.1	15.1	0.38	297	0.001	0.33	<0.01	0.08	<0.5	85.67	6.6	0.8	8.70	6	3	43.85	4.30	15.89	0.22	0.76
3205026	Drill Core	2.0	16.8	0.23	310	0.001	0.36	<0.01	0.11	<0.5	58.81	5.0	1.3	6.34	<5	2	59.21	5.82	10.45	0.20	0.50
3205027	Drill Core	2.1	15.0	0.15	276	0.001	0.43	<0.01	0.10	<0.5	77.36	3.0	1.7	8.28	<5	4	59.51	5.51	8.06	0.18	0.34
3205028	Drill Core	1.3	9.8	0.11	155	<0.001	0.17	<0.01	0.06	<0.5	157.27	1.9	2.5	15.15	7	6	47.30	2.41	7.80	0.11	0.25
3205029	Drill Core	1.6	9.0	0.07	155	0.001	0.16	<0.01	0.06	<0.5	88.21	1.5	1.9	9.98	<5	5	64.34	2.49	6.69	0.10	0.19
3205030	Drill Core	1.2	8.3	<0.01	116	<0.001	0.08	<0.01	0.04	<0.5	124.59	0.6	7.8	25.79	<5	4	36.70	1.49	22.40	0.07	0.04



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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	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.02	0.15
3205001 Drill Core	0.79	0.02	0.34	0.02	<0.01	1.86	<0.01	0.81	0.01	2.30	98.10	0.04	0.65	0.24	0.51	0.10	0.14	0.09	0.45
3205002 Drill Core	1.51	<0.01	0.53	0.05	<0.01	2.66	<0.01	0.06	0.03	6.80	98.94	0.05	2.22	3.36	2.19	<0.02	<0.08	3.02	1.01
3205003 Drill Core	1.15	<0.01	0.43	0.13	0.02	1.32	<0.01	0.08	0.19	11.86	97.93	0.07	2.07	13.77	2.05	<0.02	<0.08	10.96	8.42
3205004 Drill Core	0.52	<0.01	0.22	0.25	<0.01	0.38	0.03	0.11	14.87	16.64	98.39	0.02	0.34	27.49	0.33	<0.02	<0.08	15.89	34.75
3205005 Drill Core	1.12	<0.01	0.36	0.22	<0.01	0.73	<0.01	0.08	9.21	16.97	99.07	0.03	0.36	26.25	0.35	<0.02	<0.08	19.69	19.65
3205006 Drill Core	1.50	<0.01	0.46	0.31	0.02	0.87	0.02	0.10	18.93	15.70	98.52	0.04	0.43	24.24	0.41	<0.02	<0.08	20.67	10.70
3205007 Drill Core	1.13	<0.01	0.31	0.19	<0.01	0.66	<0.01	0.11	6.22	21.31	98.73	0.03	0.30	32.24	0.29	<0.02	<0.08	24.30	23.79
3205008 Drill Core	0.98	0.01	0.32	0.20	0.01	0.56	<0.01	0.08	2.56	16.94	98.91	0.03	0.29	25.47	0.28	<0.02	<0.08	20.90	13.69
3205009 Drill Core	1.41	<0.01	0.47	0.24	<0.01	0.78	<0.01	0.05	0.45	11.23	99.01	0.03	0.35	15.24	0.33	<0.02	<0.08	14.10	3.42
3205010 Drill Core	1.12	<0.01	0.37	0.13	<0.01	0.58	<0.01	0.16	2.51	13.97	98.90	0.03	0.32	20.04	0.31	<0.02	<0.08	17.43	7.82
3205011 Drill Core	1.90	<0.01	0.55	0.12	0.01	0.92	<0.01	0.03	0.10	10.26	98.88	0.05	0.49	12.83	0.47	<0.02	<0.08	11.99	2.52
3205012 Drill Core	2.38	<0.01	0.68	0.09	0.02	1.09	<0.01	<0.01	2.92	4.27	97.68	0.05	0.64	2.92	0.62	<0.02	<0.08	2.40	1.55
3205013 Drill Core	2.31	<0.01	0.64	0.13	<0.01	1.04	<0.01	0.02	1.54	6.01	99.08	0.06	0.71	5.31	0.68	<0.02	<0.08	4.85	1.36
3205014 Drill Core	1.78	<0.01	0.48	0.14	<0.01	0.82	<0.01	0.04	1.73	8.70	98.64	0.05	0.57	10.48	0.55	<0.02	<0.08	9.76	2.17
3205015 Drill Core	1.69	<0.01	0.49	0.12	<0.01	0.82	<0.01	0.04	1.65	10.63	99.12	0.04	0.55	13.79	0.54	<0.02	<0.08	11.50	6.86
3205016 Drill Core	1.68	<0.01	0.50	0.14	<0.01	0.77	<0.01	0.06	4.89	8.73	98.58	0.03	0.58	11.51	0.55	<0.02	<0.08	9.89	4.85
3205017 Drill Core	1.64	0.01	0.56	0.16	<0.01	0.71	<0.01	0.05	7.17	13.71	99.07	0.03	0.72	19.44	0.69	<0.02	<0.08	16.87	7.70
3205018 Drill Core	2.52	0.16	0.67	0.12	0.01	1.02	<0.01	0.02	1.11	6.56	98.96	0.06	1.62	1.83	0.87	<0.02	2.71	1.47	1.08
3205019 Drill Core	2.67	0.14	0.70	0.13	0.01	1.02	<0.01	<0.01	0.12	6.86	99.07	0.06	1.71	2.18	1.01	0.03	2.41	1.67	1.55
3205020 Rock Pulp	3.59	0.28	0.26	0.12	<0.01	0.08	0.04	3.59	4.99	16.66	99.61	<0.01	3.18	7.91	0.39	<0.02	10.22	1.11	20.37
3205021 Drill Core	2.36	0.12	0.63	0.11	0.01	0.88	<0.01	<0.01	0.03	5.86	99.47	0.05	1.52	1.81	0.93	0.03	2.06	1.35	1.37
3205022 Drill Core	2.43	0.09	0.63	0.12	<0.01	0.91	<0.01	0.01	0.05	5.29	98.76	0.06	1.36	1.45	0.90	0.03	1.62	1.13	0.97
3205023 Drill Core	2.27	0.03	0.60	0.13	0.02	0.88	<0.01	0.02	0.47	5.30	99.46	0.05	0.96	3.09	0.80	<0.02	0.57	2.40	2.07
3205024 Drill Core	1.67	0.24	0.58	0.19	<0.01	0.73	<0.01	0.02	1.44	10.20	99.24	0.04	1.95	5.80	0.65	<0.02	4.74	4.85	2.86
3205025 Drill Core	0.80	0.36	0.36	0.09	<0.01	0.34	0.01	0.01	15.34	12.36	98.63	0.02	2.73	8.80	0.66	<0.02	7.54	7.10	5.09
3205026 Drill Core	1.12	0.22	0.50	0.13	0.02	0.36	<0.01	0.03	9.44	8.25	98.82	0.03	1.77	6.34	0.63	0.02	4.09	5.64	2.11
3205027 Drill Core	1.05	0.12	0.54	0.14	<0.01	0.34	<0.01	0.07	12.62	7.77	99.56	0.03	1.31	8.51	0.68	0.03	2.22	6.51	5.99
3205028 Drill Core	0.48	0.08	0.31	0.08	0.08	0.13	0.02	0.06	23.94	9.63	98.76	0.01	0.83	15.62	0.41	<0.02	1.50	11.62	11.98
3205029 Drill Core	0.51	0.06	0.40	0.08	<0.01	0.14	<0.01	0.03	13.60	6.72	98.86	0.01	0.68	10.06	0.41	<0.02	0.96	7.30	8.27
3205030 Drill Core	0.29	0.01	0.27	0.06	<0.01	0.07	<0.01	0.12	17.68	15.67	99.46	<0.01	0.33	26.65	0.29	<0.02	0.13	18.85	23.37



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Project: MacMillan Pass

Report Date: January 24, 2021

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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
3205031	Drill Core	6.23	1.1	50.9	427.4	23152	15.8	105.8	22.3	37	21.87	597	0.6	1.0	39	78.7	118.7	<0.5	<10	0.09	0.041
3205032	Drill Core	4.48	1.2	80.3	187.5	43155	12.8	54.1	13.9	1177	7.82	160	0.5	1.2	58	239.1	59.9	<0.5	30	0.15	0.058
3205033	Drill Core	4.39	1.8	69.4	122.3	44768	7.6	42.6	15.8	1364	5.61	70	0.8	1.4	73	174.4	36.6	<0.5	39	0.14	0.053
3205034	Drill Core	3.81	1.1	29.7	49.9	18392	3.5	35.8	4.5	1784	6.32	34	0.9	1.0	29	78.5	23.4	<0.5	26	0.13	0.045
3205035	Drill Core	3.67	1.5	46.4	58.5	14988	5.2	42.7	5.4	1316	4.83	46	0.7	1.2	49	77.2	30.7	<0.5	37	0.16	0.062
3205036	Drill Core	4.40	1.2	73.5	208.8	44927	8.0	36.3	9.6	1887	7.37	59	<0.5	1.0	20	168.3	69.9	<0.5	19	0.13	0.031
3205037	Drill Core	4.37	1.1	26.1	88.1	5027	1.6	44.1	5.8	2402	10.87	80	<0.5	1.0	16	24.0	32.3	<0.5	33	0.10	0.019
3205038	Drill Core	3.42	15.5	27.3	43.3	10592	1.9	31.2	7.0	1010	3.72	30	0.6	1.0	41	30.7	22.2	<0.5	31	0.11	0.036
3205039	Drill Core	3.72	1.6	12.6	40.7	2550	0.8	26.5	5.5	2773	9.11	29	0.6	1.1	52	8.6	17.4	<0.5	57	0.19	0.051
3205040	Rock	0.56	2.4	53.7	2.8	44	<0.5	4.6	10.2	434	3.07	<5	0.9	2.8	91	<0.5	<0.5	<0.5	107	1.15	0.067
3205041	Drill Core	4.25	1.2	79.3	668.8	34074	7.6	36.5	11.2	1948	7.25	49	0.7	1.0	39	127.5	58.9	<0.5	35	0.15	0.050
3205042	Drill Core	3.25	1.5	87.9	583.6	25969	8.3	35.4	10.5	1673	6.27	51	0.7	0.8	48	105.0	86.2	<0.5	32	0.18	0.065
3205043	Drill Core	3.49	1.5	98.4	227.2	11124	3.2	33.6	5.7	668	2.94	32	1.3	<0.5	19	54.4	127.3	<0.5	14	0.10	0.040
3205044	Drill Core	4.10	0.7	89.9	194.4	42611	11.1	38.6	7.7	352	2.05	49	1.1	<0.5	14	156.8	75.2	<0.5	13	0.06	0.024
3205045	Drill Core	3.62	1.2	38.8	40.8	8576	2.2	35.8	4.4	79	0.95	38	0.9	<0.5	15	39.0	34.7	<0.5	<10	0.07	0.033
3205046	Drill Core	2.49	0.8	35.8	26.4	13954	1.9	34.6	4.4	45	0.84	35	0.9	<0.5	16	51.9	24.8	<0.5	<10	0.08	0.035
3205047	Drill Core	3.61	1.0	45.9	37.9	16443	2.7	39.6	5.3	189	1.45	52	2.3	<0.5	29	75.0	26.2	<0.5	20	0.11	0.064
3205048	Drill Core	4.16	2.1	17.9	73.2	6116	1.4	40.8	5.2	931	3.80	53	5.1	<0.5	53	25.1	22.1	<0.5	45	0.18	0.099
3205049	Drill Core	3.83	1.6	11.0	54.8	3144	1.0	36.4	5.2	1114	4.06	48	9.1	0.6	76	14.3	17.2	<0.5	71	0.20	0.139
3205050	Drill Core	3.57	2.8	10.0	32.3	4992	0.9	39.7	6.2	3013	9.57	44	1.2	1.5	51	21.2	11.0	<0.5	68	0.23	0.069



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MacMillan Pass

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CERTIFICATE OF ANALYSIS

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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
3205031	Drill Core	1.6	10.0	<0.01	152	0.001	0.16	<0.01	0.07	<0.5	17.50	0.6	3.6	25.85	<5	<2	42.31	2.79	31.93	0.12	0.06
3205032	Drill Core	2.3	17.3	0.16	301	0.001	0.43	<0.01	0.10	<0.5	32.04	3.1	2.4	6.57	<5	<2	66.74	5.12	11.44	0.21	0.35
3205033	Drill Core	2.3	19.2	0.16	333	0.001	0.42	<0.01	0.11	<0.5	33.71	3.3	1.0	3.22	<5	<2	69.64	5.76	8.22	0.21	0.36
3205034	Drill Core	<0.5	12.8	0.20	170	<0.001	0.15	<0.01	0.03	<0.5	14.48	3.3	<0.5	1.34	<5	2	79.81	1.71	9.20	0.19	0.35
3205035	Drill Core	0.6	16.0	0.11	150	<0.001	0.21	<0.01	0.05	<0.5	13.86	3.0	<0.5	1.24	<5	3	81.19	3.19	6.97	0.21	0.24
3205036	Drill Core	<0.5	8.6	0.20	75	<0.001	0.12	<0.01	0.03	<0.5	41.51	1.7	0.5	3.04	<5	3	73.96	1.73	10.62	0.18	0.37
3205037	Drill Core	<0.5	15.0	0.21	101	0.010	0.13	<0.01	0.02	1.3	4.74	2.5	<0.5	3.79	<5	2	71.73	1.74	16.00	0.14	0.38
3205038	Drill Core	1.1	13.6	0.10	145	<0.001	0.20	<0.01	0.06	<0.5	10.64	2.3	<0.5	0.94	<5	<2	82.57	4.97	5.55	0.16	0.21
3205039	Drill Core	1.1	16.6	0.22	148	0.001	0.24	<0.01	0.06	<0.5	2.52	4.8	<0.5	0.49	<5	<2	72.73	4.08	13.37	0.29	0.43
3205040	Rock	6.8	6.1	0.89	193	0.195	1.97	0.26	0.34	<0.5	0.15	4.1	<0.5	<0.05	6	<2	60.54	16.87	6.19	6.23	2.83
3205041	Drill Core	0.6	12.1	0.18	111	<0.001	0.22	<0.01	0.04	<0.5	30.22	2.9	<0.5	2.23	<5	4	73.90	3.12	10.57	0.23	0.33
3205042	Drill Core	0.8	12.2	0.17	114	0.002	0.19	<0.01	0.05	<0.5	26.18	2.9	<0.5	1.86	<5	4	75.98	3.35	9.02	0.25	0.31
3205043	Drill Core	<0.5	10.7	0.08	72	<0.001	0.16	<0.01	0.02	<0.5	10.42	0.7	<0.5	0.98	<5	<2	88.77	1.88	4.27	0.14	0.15
3205044	Drill Core	<0.5	5.6	0.04	57	<0.001	0.12	<0.01	0.02	<0.5	38.34	0.9	<0.5	2.77	<5	3	85.81	1.95	2.95	0.09	0.09
3205045	Drill Core	<0.5	4.6	<0.01	65	<0.001	0.10	<0.01	0.02	<0.5	8.59	<0.5	<0.5	0.89	<5	<2	92.02	2.26	1.37	0.10	0.04
3205046	Drill Core	<0.5	3.7	<0.01	89	<0.001	0.09	<0.01	0.02	<0.5	12.70	0.5	<0.5	1.21	<5	<2	92.68	2.12	1.24	0.13	0.03
3205047	Drill Core	<0.5	11.8	0.01	160	<0.001	0.17	<0.01	0.02	<0.5	14.60	0.7	<0.5	1.38	<5	<2	89.56	2.42	2.07	0.16	0.06
3205048	Drill Core	<0.5	22.5	0.09	786	<0.001	0.25	<0.01	0.02	<0.5	5.38	1.7	<0.5	0.93	<5	2	86.32	2.38	5.48	0.25	0.18
3205049	Drill Core	0.5	34.3	0.12	2137	<0.001	0.44	<0.01	0.03	<0.5	2.87	3.4	<0.5	0.66	<5	2	84.41	3.17	5.87	0.28	0.20
3205050	Drill Core	2.0	20.7	0.27	233	0.001	0.34	<0.01	0.06	<0.5	3.79	5.8	<0.5	0.65	<5	2	68.54	5.31	13.80	0.32	0.48



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Report Date: January 24, 2021

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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	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-
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		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
3205031	Drill Core	0.51	<0.01	0.33	0.11	<0.01	0.17	<0.01	0.05	2.23	17.33	98.61	<0.01	0.33	26.17	0.30	<0.02	<0.08	20.03
3205032	Drill Core	0.91	0.15	0.46	0.15	<0.01	0.31	<0.01	0.02	4.45	7.29	98.84	0.02	1.11	6.60	0.35	<0.02	2.71	5.13
3205033	Drill Core	1.01	0.18	0.50	0.14	<0.01	0.33	<0.01	0.02	4.67	5.88	98.23	0.02	1.36	3.24	0.44	<0.02	3.32	2.39
3205034	Drill Core	0.27	0.22	0.09	0.11	0.01	0.10	<0.01	0.01	1.85	5.13	99.56	<0.01	1.60	1.19	0.47	<0.02	4.08	0.88
3205035	Drill Core	0.45	0.16	0.19	0.14	<0.01	0.11	<0.01	<0.01	1.52	4.33	99.17	0.02	1.33	1.19	0.45	<0.02	3.19	0.79
3205036	Drill Core	0.27	0.24	0.13	0.08	<0.01	0.05	<0.01	0.04	4.74	6.46	100.07	0.01	2.02	2.99	0.63	0.02	5.01	1.59
3205037	Drill Core	0.25	0.29	0.10	0.05	<0.01	0.08	<0.01	0.01	0.52	8.32	99.76	0.01	2.46	3.80	0.76	0.07	5.97	2.82
3205038	Drill Core	0.64	0.13	0.29	0.10	<0.01	0.15	<0.01	0.01	1.08	3.71	99.94	0.02	1.17	0.89	0.49	<0.02	2.43	0.62
3205039	Drill Core	0.53	0.34	0.28	0.15	<0.01	0.12	<0.01	0.01	0.27	7.25	100.02	0.02	2.54	0.48	0.65	<0.02	6.89	0.27
3205040	Rock	1.58	0.13	0.54	0.14	<0.01	0.06	<0.01	<0.01	<0.01	0.78	99.13	0.02	0.03	<0.02	<0.02	<0.02	0.12	<0.02
3205041	Drill Core	0.40	0.24	0.18	0.13	<0.01	0.10	<0.01	0.07	3.56	6.29	100.03	0.01	1.94	2.17	0.55	<0.02	5.04	1.76
3205042	Drill Core	0.43	0.20	0.22	0.15	<0.01	0.10	<0.01	0.05	2.66	5.65	99.11	0.02	1.68	1.83	0.53	<0.02	4.18	1.30
3205043	Drill Core	0.20	0.09	0.07	0.08	<0.01	0.06	<0.01	0.02	1.14	2.64	99.82	<0.01	0.95	0.94	0.47	<0.02	1.69	0.65
3205044	Drill Core	0.18	0.05	0.07	0.06	<0.01	0.05	<0.01	0.03	4.33	2.81	99.61	<0.01	0.70	2.73	0.45	0.03	0.82	1.85
3205045	Drill Core	0.24	0.01	0.09	0.09	<0.01	0.06	<0.01	0.01	0.88	1.59	99.02	<0.01	0.64	0.87	0.57	0.02	0.16	0.47
3205046	Drill Core	0.21	0.01	0.08	0.10	<0.01	0.06	<0.01	0.01	1.39	1.51	99.95	<0.01	0.56	1.11	0.52	<0.02	<0.08	0.66
3205047	Drill Core	0.21	0.03	0.08	0.15	<0.01	0.08	<0.01	0.01	1.63	2.04	98.96	0.01	0.69	1.35	0.55	0.02	0.47	0.82
3205048	Drill Core	0.22	0.11	0.09	0.24	<0.01	0.12	<0.01	<0.01	0.61	3.75	99.99	0.01	1.34	0.90	0.72	0.03	2.15	0.50
3205049	Drill Core	0.33	0.14	0.14	0.33	<0.01	0.28	<0.01	<0.01	0.31	3.92	99.50	0.02	1.30	0.65	0.63	<0.02	2.39	0.30
3205050	Drill Core	0.76	0.36	0.40	0.19	<0.01	0.19	<0.01	<0.01	0.49	8.00	99.05	0.03	2.79	0.65	0.89	<0.02	6.89	0.38



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QUALITY CONTROL REPORT

WHI20000513.1

	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
3205021	Drill Core	3.56	4.3	25.4	86.3	375	2.1	64.5	12.7	874	4.19	74	0.6	2.3	65	2.5	42.1	<0.5	35	0.13	0.042
3205044	Drill Core	4.10	0.7	89.9	194.4	42611	11.1	38.6	7.7	352	2.05	49	1.1	<0.5	14	156.8	75.2	<0.5	13	0.06	0.024
Pulp Duplicates																					
3205003	Drill Core	3.03	20.2	110.8	698.4	2026	5.5	109.5	14.4	53	12.04	324	4.6	1.2	54	19.5	119.3	<0.5	33	0.08	0.051
REP 3205003	QC		19.4	111.3	697.5	2037	5.5	112.6	14.2	52	12.13	325	4.6	1.1	54	18.5	118.8	<0.5	33	0.08	0.052
3205010	Drill Core	3.07	1.7	68.9	1580.1	26025	12.7	136.8	14.6	17	16.86	390	2.1	1.0	57	158.6	124.8	<0.5	17	0.10	0.051
REP 3205010	QC																				
3205018	Drill Core	4.08	3.7	30.7	88.5	10766	1.9	57.0	20.6	1182	4.59	75	0.8	2.3	76	96.6	37.3	<0.5	38	0.12	0.042
REP 3205018	QC																				
3205030	Drill Core	5.50	1.7	131.0	1203.5	176758	45.5	204.2	50.2	59	15.69	717	<0.5	0.7	22	730.4	236.9	<0.5	<10	0.05	0.023
REP 3205030	QC																				
REP 3205033	QC																				
3205034	Drill Core	3.81	1.1	29.7	49.9	18392	3.5	35.8	4.5	1784	6.32	34	0.9	1.0	29	78.5	23.4	<0.5	26	0.13	0.045
REP 3205034	QC																				
3205035	Drill Core	3.67	1.5	46.4	58.5	14988	5.2	42.7	5.4	1316	4.83	46	0.7	1.2	49	77.2	30.7	<0.5	37	0.16	0.062
REP 3205035	QC		1.5	46.1	55.9	15100	5.0	37.9	5.0	1295	4.76	44	0.6	1.0	48	76.0	29.3	<0.5	36	0.16	0.061
3205038	Drill Core	3.42	15.5	27.3	43.3	10592	1.9	31.2	7.0	1010	3.72	30	0.6	1.0	41	30.7	22.2	<0.5	31	0.11	0.036
REP 3205038	QC																				
3205041	Drill Core	4.25	1.2	79.3	668.8	34074	7.6	36.5	11.2	1948	7.25	49	0.7	1.0	39	127.5	58.9	<0.5	35	0.15	0.050
REP 3205041	QC																				
3205042	Drill Core	3.25	1.5	87.9	583.6	25969	8.3	35.4	10.5	1673	6.27	51	0.7	0.8	48	105.0	86.2	<0.5	32	0.18	0.065
REP 3205042	QC																				
3205048	Drill Core	4.16	2.1	17.9	73.2	6116	1.4	40.8	5.2	931	3.80	53	5.1	<0.5	53	25.1	22.1	<0.5	45	0.18	0.099
REP 3205048	QC																				
3205049	Drill Core	3.83	1.6	11.0	54.8	3144	1.0	36.4	5.2	1114	4.06	48	9.1	0.6	76	14.3	17.2	<0.5	71	0.20	0.139
REP 3205049	QC																				
3205050	Drill Core	3.57	2.8	10.0	32.3	4992	0.9	39.7	6.2	3013	9.57	44	1.2	1.5	51	21.2	11.0	<0.5	68	0.23	0.069
REP 3205050	QC																				
Core Reject Duplicates																					



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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
3205021	Drill Core	3.6	11.1	0.12	574	0.001	0.42	<0.01	0.18	<0.5	0.43	4.2	1.4	1.78	<5	<2	70.56	11.73	6.32	0.19	0.39
3205044	Drill Core	<0.5	5.6	0.04	57	<0.001	0.12	<0.01	0.02	<0.5	38.34	0.9	<0.5	2.77	<5	3	85.81	1.95	2.95	0.09	0.09
Pulp Duplicates																					
3205003	Drill Core	2.4	24.8	<0.01	174	0.001	0.40	<0.01	0.10	<0.5	3.26	1.4	3.3	13.55	<5	3	57.48	7.68	17.03	0.11	0.11
REP 3205003	QC	2.5	24.0	<0.01	162	0.001	0.42	<0.01	0.10	<0.5	3.40	1.4	3.3	13.84	<5	3					
3205010	Drill Core	1.7	17.8	<0.01	96	0.001	0.35	<0.01	0.12	<0.5	19.14	1.0	1.6	20.35	<5	<2	48.48	6.18	24.28	0.14	0.10
REP 3205010	QC																48.44	6.18	24.39	0.13	0.11
3205018	Drill Core	3.8	12.0	0.18	613	0.001	0.47	<0.01	0.19	<0.5	9.71	4.4	1.5	1.86	<5	2	65.53	12.95	7.06	0.18	0.48
REP 3205018	QC																				
3205030	Drill Core	1.2	8.3	<0.01	116	<0.001	0.08	<0.01	0.04	<0.5	124.59	0.6	7.8	25.79	<5	4	36.70	1.49	22.40	0.07	0.04
REP 3205030	QC																36.64	1.50	22.48	0.07	0.05
REP 3205033	QC																				
3205034	Drill Core	<0.5	12.8	0.20	170	<0.001	0.15	<0.01	0.03	<0.5	14.48	3.3	<0.5	1.34	<5	2	79.81	1.71	9.20	0.19	0.35
REP 3205034	QC																				
3205035	Drill Core	0.6	16.0	0.11	150	<0.001	0.21	<0.01	0.05	<0.5	13.86	3.0	<0.5	1.24	<5	3	81.19	3.19	6.97	0.21	0.24
REP 3205035	QC	0.6	15.1	0.12	146	<0.001	0.21	<0.01	0.05	<0.5	13.66	2.5	<0.5	1.21	<5	2					
3205038	Drill Core	1.1	13.6	0.10	145	<0.001	0.20	<0.01	0.06	<0.5	10.64	2.3	<0.5	0.94	<5	<2	82.57	4.97	5.55	0.16	0.21
REP 3205038	QC																82.58	4.98	5.52	0.15	0.20
3205041	Drill Core	0.6	12.1	0.18	111	<0.001	0.22	<0.01	0.04	<0.5	30.22	2.9	<0.5	2.23	<5	4	73.90	3.12	10.57	0.23	0.33
REP 3205041	QC																				
3205042	Drill Core	0.8	12.2	0.17	114	0.002	0.19	<0.01	0.05	<0.5	26.18	2.9	<0.5	1.86	<5	4	75.98	3.35	9.02	0.25	0.31
REP 3205042	QC																				
3205048	Drill Core	<0.5	22.5	0.09	786	<0.001	0.25	<0.01	0.02	<0.5	5.38	1.7	<0.5	0.93	<5	2	86.32	2.38	5.48	0.25	0.18
REP 3205048	QC																				
3205049	Drill Core	0.5	34.3	0.12	2137	<0.001	0.44	<0.01	0.03	<0.5	2.87	3.4	<0.5	0.66	<5	2	84.41	3.17	5.87	0.28	0.20
REP 3205049	QC																84.41	3.17	5.97	0.29	0.22
3205050	Drill Core	2.0	20.7	0.27	233	0.001	0.34	<0.01	0.06	<0.5	3.79	5.8	<0.5	0.65	<5	2	68.54	5.31	13.80	0.32	0.48
REP 3205050	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
3205021	Drill Core	2.36	0.12	0.63	0.11	0.01	0.88	<0.01	<0.01	0.03	5.86	99.47	0.05	1.52	1.81	0.93	0.03	2.06	1.35	1.37
3205044	Drill Core	0.18	0.05	0.07	0.06	<0.01	0.05	<0.01	0.03	4.33	2.81	99.61	<0.01	0.70	2.73	0.45	0.03	0.82	1.85	2.63
Pulp Duplicates																				
3205003	Drill Core	1.15	<0.01	0.43	0.13	0.02	1.32	<0.01	0.08	0.19	11.86	97.93	0.07	2.07	13.77	2.05	<0.02	<0.08	10.96	8.42
REP 3205003	QC																<0.02			
3205010	Drill Core	1.12	<0.01	0.37	0.13	<0.01	0.58	<0.01	0.16	2.51	13.97	98.90	0.03	0.32	20.04	0.31	<0.02	<0.08	17.43	7.82
REP 3205010	QC	1.13	<0.01	0.36	0.14	<0.01	0.59	<0.01	0.15	2.48	13.97	98.88	0.03							
3205018	Drill Core	2.52	0.16	0.67	0.12	0.01	1.02	<0.01	0.02	1.11	6.56	98.96	0.06	1.62	1.83	0.87	<0.02	2.71	1.47	1.08
REP 3205018	QC													1.66	1.93					
3205030	Drill Core	0.29	0.01	0.27	0.06	<0.01	0.07	<0.01	0.12	17.68	15.67	99.46	<0.01	0.33	26.65	0.29	<0.02	0.13	18.85	23.37
REP 3205030	QC	0.31	0.01	0.26	0.06	<0.01	0.08	<0.01	0.13	17.78	15.67	99.64	<0.01					0.13		
REP 3205033	QC																		2.50	
3205034	Drill Core	0.27	0.22	0.09	0.11	0.01	0.10	<0.01	0.01	1.85	5.13	99.56	<0.01	1.60	1.19	0.47	<0.02	4.08	0.88	0.92
REP 3205034	QC																<0.02			
3205035	Drill Core	0.45	0.16	0.19	0.14	<0.01	0.11	<0.01	<0.01	1.52	4.33	99.17	0.02	1.33	1.19	0.45	<0.02	3.19	0.79	1.21
REP 3205035	QC																			
3205038	Drill Core	0.64	0.13	0.29	0.10	<0.01	0.15	<0.01	0.01	1.08	3.71	99.94	0.02	1.17	0.89	0.49	<0.02	2.43	0.62	0.80
REP 3205038	QC	0.65	0.12	0.28	0.09	<0.01	0.14	<0.01	0.01	1.08	3.71	99.86	0.02							
3205041	Drill Core	0.40	0.24	0.18	0.13	<0.01	0.10	<0.01	0.07	3.56	6.29	100.03	0.01	1.94	2.17	0.55	<0.02	5.04	1.76	1.23
REP 3205041	QC																		1.48	
3205042	Drill Core	0.43	0.20	0.22	0.15	<0.01	0.10	<0.01	0.05	2.66	5.65	99.11	0.02	1.68	1.83	0.53	<0.02	4.18	1.30	1.58
REP 3205042	QC													1.69	1.82					
3205048	Drill Core	0.22	0.11	0.09	0.24	<0.01	0.12	<0.01	<0.01	0.61	3.75	99.99	0.01	1.34	0.90	0.72	0.03	2.15	0.50	1.21
REP 3205048	QC																	2.06		
3205049	Drill Core	0.33	0.14	0.14	0.33	<0.01	0.28	<0.01	<0.01	0.31	3.92	99.50	0.02	1.30	0.65	0.63	<0.02	2.39	0.30	1.04
REP 3205049	QC	0.33	0.14	0.14	0.33	<0.01	0.28	<0.01	<0.01	0.32	3.92	99.66	0.02							
3205050	Drill Core	0.76	0.36	0.40	0.19	<0.01	0.19	<0.01	<0.01	0.49	8.00	99.05	0.03	2.79	0.65	0.89	<0.02	6.89	0.38	0.81
REP 3205050	QC																		0.35	
Core Reject Duplicates																				



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Project:

MacMillan Pass

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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
3205033	Drill Core	4.39	1.8	69.4	122.3	44768	7.6	42.6	15.8	1364	5.61	70	0.8	1.4	73	174.4	36.6	<0.5	39	0.14	0.053
DUP 3205033	QC		1.4	70.2	122.3	45338	7.3	43.2	15.3	1355	5.59	69	0.8	1.3	69	178.2	36.0	<0.5	38	0.14	0.054
Reference Materials																					
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	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 GS314-1	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD OREAS135	Standard		8.1	288.4	16793.5	26909	56.4	33.7	29.9	4150	9.05	949	8.6	12.2	24	64.4	35.7	4.5	33	1.86	0.087
STD OREAS133B(D)	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS605	Standard		4.7	46956.5	897.1	2083	973.5	1563.9	99.8	85	3.67	1757	0.8	2.8	46	14.2	270.4	16.7	<10	0.18	0.009
STD OREAS605	Standard		4.2	47603.9	856.9	2109	981.9	1570.0	99.4	78	3.61	1677	0.9	2.6	49	14.3	288.4	19.5	<10	0.18	0.008
STD OREAS72B	Standard																				
STD OREAS72B	Standard																				
STD OREAS927-AR	Standard		1.0	10608.5	232.3	721	4.6	30.8	29.9	1060	8.02	13	1.7	13.4	14	1.1	1.3	71.1	32	0.29	0.055
STD RTS-3A	Standard																				
STD RTS-3A	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	0.086



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		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	
3205033	Drill Core	2.3	19.2	0.16	333	0.001	0.42	<0.01	0.11	<0.5	33.71	3.3	1.0	3.22	<5	<2	69.64	5.76	8.22	0.21	0.36	
DUP 3205033	QC	2.2	18.9	0.15	334	0.001	0.41	<0.01	0.11	<0.5	34.51	4.0	0.9	3.22	<5	<2	71.08	5.79	8.30	0.21	0.34	
Reference Materials																						
STD COO2	Standard																					
STD COO2	Standard																					
STD COO2	Standard																					
STD COO2	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 GS314-1	Standard																					
STD GS910-4	Standard																					
STD GS910-4	Standard																					
STD OREAS135	Standard	36.8	22.7	0.85	396	0.025	1.10	0.02	0.52	3.0	1.03	4.3	6.0	7.33	<5	2						
STD OREAS133B(D)	Standard																	33.57	6.83	11.49	5.28	3.79
STD OREAS133B(D)	Standard																	33.82	6.86	11.57	5.32	3.81
STD OREAS605	Standard	6.9	31.1	0.03	194	0.009	0.72	0.03	0.14	6.7	2.06	1.1	15.4	7.88	7	77						
STD OREAS605	Standard	8.1	32.7	0.03	178	0.010	0.70	0.03	0.14	6.2	1.71	1.2	14.1	7.78	6	77						
STD OREAS72B	Standard																	51.08	9.00	9.88	3.99	16.10
STD OREAS72B	Standard																	51.15	9.00	9.88	3.97	16.11
STD OREAS927-AR	Standard	29.1	40.6	1.96	47	0.079	3.31	<0.01	0.27	5.5	0.06	4.5	<0.5	1.76	9	15						
STD RTS-3A	Standard																					
STD RTS-3A	Standard																					
STD SY-4(D)	Standard																	49.91	20.80	6.19	7.97	0.54
STD SY-4(D)	Standard																	49.78	20.79	6.21	8.02	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							



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		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
3205033	Drill Core	1.01	0.18	0.50	0.14	<0.01	0.33	<0.01	0.02	4.67	5.88	98.23	0.02	1.36	3.24	0.44	<0.02	3.32	2.39	2.55
DUP 3205033	QC	1.01	0.18	0.52	0.14	<0.01	0.32	<0.01	0.02	4.80	5.90	99.97	0.02	1.36	3.22	0.45	<0.02	3.29	2.41	2.41
Reference Materials																				
STD COO2	Standard																		3.58	
STD COO2	Standard																		3.64	
STD COO2	Standard																		3.61	
STD COO2	Standard																		3.60	
STD GGC-09	Standard																2.45			
STD GGC-09	Standard																2.36			
STD GGC-10	Standard																4.94			
STD GGC-10	Standard																4.70			
STD GS311-1	Standard														1.02	2.32				
STD GS311-1	Standard														0.97	2.25				
STD GS314-1	Standard														1.31	28.15				
STD GS910-4	Standard														2.79	8.51				
STD GS910-4	Standard														2.59	8.36				
STD OREAS135	Standard																			
STD OREAS133B(D)	Standard	3.46	0.16	0.22	0.10	<0.01	0.07	0.03	5.07	11.35	13.03	97.83	0.01							
STD OREAS133B(D)	Standard	3.49	0.16	0.23	0.10	<0.01	0.08	0.03	5.06	11.36	13.03	98.35	<0.01							
STD OREAS605	Standard																			
STD OREAS605	Standard																			
STD OREAS72B	Standard	1.33	0.14	0.35	0.06	0.14	0.03	0.02	<0.01	<0.01	5.25	98.71	0.01							
STD OREAS72B	Standard	1.33	0.13	0.34	0.06	0.14	0.04	0.02	<0.01	<0.01	4.96	98.45	0.01							
STD OREAS927-AR	Standard																			
STD RTS-3A	Standard																		6.95	
STD RTS-3A	Standard																		7.15	
STD SY-4(D)	Standard	1.66	0.11	0.30	0.14	<0.01	0.04	<0.01	0.02	0.01	4.56	99.39	<0.01							
STD SY-4(D)	Standard	1.66	0.11	0.30	0.14	<0.01	0.04	<0.01	0.02	0.01	4.56	99.36	<0.01							
STD OREAS135 Expected																				



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		WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01
STD GGC-10 Expected																				
STD GGC-09 Expected																				
STD SY-4(D) Expected																				
STD OREAS72B Expected																				
STD OREAS133B(D) 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
STD GS311-1 Expected																				
STD GS910-4 Expected																				
STD GS314-1 Expected																				
STD RTS-3A Expected																				
STD COO2 Expected																				
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																			
SI BLK	Blank																			
BLK	Blank		<0.5	0.9	<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																			
BLK	Blank																			
BLK	Blank																			
Prep Wash																				
ROCK-WHI	Prep Blank		0.5	6.7	16.9	60	<0.5	1.8	3.2	369	1.62	<5	<0.5	2.1	21	<0.5	<0.5	<0.5	21	0.71
ROCK-WHI	Prep Blank		1.0	4.8	7.8	47	<0.5	0.9	3.3	384	1.67	<5	<0.5	2.2	21	<0.5	<0.5	<0.5	22	0.57



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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	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
STD GGC-10 Expected																					
STD GGC-09 Expected																					
STD SY-4(D) Expected																					
STD OREAS72B Expected																					
STD OREAS133B(D) 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 GS311-1 Expected																					
STD GS910-4 Expected																					
STD GS314-1 Expected																					
STD RTS-3A Expected																					
STD COO2 Expected																					
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																				
BLK	Blank																				
SI BLK	Blank																				
BLK	Blank	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.05	<5	<2					
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank	6.3	3.2	0.37	106	0.090	0.95	0.12	0.10	<0.5	<0.05	2.7	<0.5	<0.05	<5	<2	70.77	13.88	3.01	2.40	0.86
ROCK-WHI	Prep Blank	6.1	3.1	0.40	84	0.092	0.91	0.11	0.09	<0.5	<0.05	2.7	<0.5	<0.05	<5	<2	71.54	14.12	3.09	2.37	0.89



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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 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 OREAS605 Expected																					
STD OREAS927-AR Expected																					
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 RTS-3A Expected																				7	
STD COO2 Expected																				3.43	
BLK	Blank																				
BLK	Blank																			<0.02	
SI BLK	Blank	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	99.06	<0.01								
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	99.23	<0.01								
BLK	Blank																				
BLK	Blank													<0.02	<0.02						
BLK	Blank													<0.02	<0.02						
BLK	Blank																			<0.02	
BLK	Blank																			<0.08	
BLK	Blank																			<0.02	
BLK	Blank																			<0.02	
BLK	Blank																			<0.08	
Prep Wash																					
ROCK-WHI	Prep Blank	2.00	0.08	0.33	0.08	<0.01	0.07	<0.01	<0.01	<0.01	1.01	99.04	<0.01	0.09	<0.02	<0.02	<0.02	0.34	0.02	<0.15	
ROCK-WHI	Prep Blank	2.04	0.08	0.34	0.08	<0.01	0.08	<0.01	<0.01	<0.01	0.91	100.03	<0.01	0.05	<0.02	<0.02	<0.02	0.20	<0.02	<0.15	