



BUREAU VERITAS MINERAL LABORATORIES
Canada

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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

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

Submitted By: Confirmation & Email Distribution List
Receiving Lab: Canada-Whitehorse
Received: August 28, 2018
Report Date: October 27, 2018
Page: 1 of 4

CERTIFICATE OF ANALYSIS

WHI18000778.1

CLIENT JOB INFORMATION

Project: MacMillan Pass
Shipment ID: FWZ18-BV-025
P.O. Number
Number of Samples: 72

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT Store After 60 days Invoice for Storage

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

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

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	71	Crush, split and pulverize 500g rock to 200 mesh			WHI
SLBHP	1	Sort, label and box pulps			WHI
CRUBW	71	Extra clean rock wash between samples in crusher			WHI
PULSW	71	Extra Wash with Silica between each sample			WHI
FA330	71	Fire assay fusion Au Pt Pd by ICP-ES	30	Completed	VAN
EN002	72	Environmental disposal charge-Fire assay lead waste			VAN
AQ270	72	1:1:1 Aqua Regia digestion ICP-ES/ICP-MS analysis	1	Completed	VAN
LF725	72	Li2B4O7/LiBO2 fusion, analysis by XRF		Completed	VAN
TC006	72	15% HClO4 leach, CO2 analysis by Leco	0.2	Completed	VAN
TC003	72	Analysis by Leco	0.1	Completed	VAN
SHP01	72	Per sample shipping charges for branch shipments			VAN
LF726	1	Li2B4O7/LiBO2 fusion, analysis by XRF		Completed	VAN

ADDITIONAL COMMENTS



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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Page:

2 of 4

Part:

1 of 3

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Method Analyte Unit MDL		WGHT	FA330	FA330	FA330	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi
		kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	2	3	2	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
3209151	Drill Core	2.81	9	<3	10	17.5	59.4	67.8	148	0.6	79.4	6.1	111	2.15	38	2.3	3.2	53	<0.5	7.5	<0.5
3209152	Drill Core	2.90	17	<3	<2	19.3	47.8	79.1	89	0.7	76.7	6.3	108	2.20	37	2.4	3.8	62	<0.5	7.5	<0.5
3209153	Drill Core	3.13	21	11	14	17.4	41.5	71.8	44	0.6	59.7	5.3	69	1.77	33	1.9	3.2	46	<0.5	7.1	<0.5
3209154	Drill Core	3.12	13	14	6	15.8	52.6	98.9	77	0.6	68.4	5.6	117	2.03	32	2.2	3.4	63	<0.5	6.6	<0.5
3209155	Drill Core	2.98	18	13	9	10.6	47.2	78.8	41	0.7	58.8	5.3	88	2.16	35	1.9	3.5	55	<0.5	6.7	<0.5
3209156	Drill Core	3.04	15	<3	8	10.3	61.7	112.6	38	0.7	57.9	4.6	78	2.44	81	1.7	2.7	40	<0.5	8.9	<0.5
3209157	Drill Core	2.44	19	10	<2	13.7	53.7	102.8	267	0.7	59.8	5.2	67	2.12	44	2.2	3.1	35	0.9	8.8	<0.5
3209158	Drill Core	2.14	16	<3	<2	12.4	118.3	17412.8	72685	4.9	58.9	16.2	96	3.75	116	2.2	2.2	42	323.5	41.3	<0.5
3209159	Drill Core	2.11	17	<3	3	15.8	96.9	11267.4	117307	4.0	52.7	13.1	150	3.86	101	2.7	2.1	67	410.9	43.1	<0.5
3209160	Drill Core	2.86	16	<3	<2	16.2	98.5	11352.9	119735	4.2	57.6	13.8	127	4.60	125	2.4	1.7	51	405.6	46.0	<0.5
3209161	Drill Core	1.95	18	<3	2	16.4	60.4	13370.1	69970	3.6	61.5	12.3	85	5.16	148	2.4	1.9	35	297.8	52.6	<0.5
3209162	Drill Core	1.91	15	5	5	13.2	48.1	39145.2	99855	3.0	36.1	23.2	83	3.14	113	2.1	2.3	31	578.2	48.8	<0.5
3209163	Drill Core	2.53	12	<3	<2	12.3	55.0	>40000	109584	3.6	36.1	21.3	92	1.82	86	1.7	2.3	43	578.4	37.3	<0.5
3209164	Drill Core	1.80	5	<3	<2	9.6	39.4	26247.8	94107	2.5	37.3	18.9	59	2.05	78	1.2	1.8	45	462.0	13.6	<0.5
3209165	Drill Core	2.21	4	<3	<2	7.8	36.3	17043.4	77818	2.9	29.7	18.9	44	2.12	47	1.5	1.5	34	384.9	9.5	<0.5
3209166	Drill Core	1.66	3	3	<2	4.0	39.9	15795.0	124171	4.0	12.7	9.5	35	1.15	53	0.9	0.6	28	617.6	7.3	<0.5
3209167	Drill Core	2.07	3	<3	2	3.0	16.3	11352.2	76910	3.1	12.5	5.5	23	0.38	6	0.8	0.7	39	424.7	5.0	<0.5
3209168	Drill Core	2.27	3	<3	3	3.8	13.5	9139.5	52421	2.0	17.4	6.9	87	0.72	9	1.0	0.7	39	284.7	4.1	<0.5
3209169	Drill Core	2.09	4	<3	<2	5.5	25.1	12976.9	34766	1.8	33.1	22.3	75	2.58	46	2.0	1.6	36	182.6	7.2	<0.5
3209170	Drill Core	2.57	5	<3	<2	7.8	39.9	7110.1	24597	1.2	49.7	29.3	102	2.20	110	2.7	2.5	43	120.0	7.2	<0.5
3209171	Drill Core	1.97	4	<3	<2	5.6	26.9	9525.4	45665	1.4	30.8	13.5	46	0.99	44	1.5	1.1	40	227.5	6.7	<0.5
3209172	Drill Core	2.66	5	7	7	2.0	10.4	9903.2	52412	1.4	5.4	3.7	24	0.27	5	0.6	<0.5	38	295.2	4.3	<0.5
3209173	Drill Core	2.09	3	<3	2	2.9	15.1	13559.9	52457	2.4	10.4	7.0	40	0.41	10	0.6	0.5	36	279.8	5.6	<0.5
3209174	Drill Core	1.81	3	<3	4	4.4	17.9	12139.1	52817	2.7	21.7	13.9	53	1.16	22	0.9	0.9	34	245.8	5.8	<0.5
3209175	Drill Core	2.39	4	<3	3	5.6	24.0	17283.5	43610	4.2	22.5	13.7	45	0.75	31	1.2	1.2	27	208.6	8.2	<0.5
3209176	Drill Core	2.01	4	<3	5	7.6	25.4	14095.9	73077	6.4	29.1	23.5	31	1.35	37	1.4	1.6	64	335.0	9.3	<0.5
3209177	Drill Core	2.15	4	<3	3	8.9	38.3	12666.9	78376	4.4	31.2	31.7	63	1.33	52	1.4	1.8	19	332.0	9.6	<0.5
3209178	Rock Pulp	0.04	I.S.	I.S.	I.S.	2.9	365.6	>40000	110643	105.0	25.6	26.4	1412	7.99	156	1.5	6.1	20	344.1	193.4	0.7
3209179	Drill Core	1.96	4	<3	3	5.2	21.8	16062.7	49382	3.9	16.8	15.4	33	0.61	16	1.0	1.2	34	225.4	9.5	<0.5
3209180	Drill Core	2.77	3	<3	<2	3.6	25.2	9715.7	63352	3.0	16.7	18.8	32	0.60	33	0.9	0.6	40	282.6	6.7	<0.5



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Page:

2 of 4

Part:

2 of 3

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	Method Analyte Unit MDL	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725
		V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	SiO2	Al2O3
		ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%
		10	0.01	0.001	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
3209151	Drill Core	107	0.54	0.118	10.1	19.4	0.19	1904	0.004	1.22	<0.01	0.19	<0.5	0.21	2.2	1.3	1.70	<5	6	75.00	7.64
3209152	Drill Core	138	0.64	0.121	10.5	23.9	0.24	1532	0.005	0.99	<0.01	0.23	<0.5	0.23	3.0	1.3	1.99	<5	7	75.30	8.02
3209153	Drill Core	126	0.49	0.106	9.8	20.2	0.15	1994	0.005	0.94	<0.01	0.20	<0.5	0.24	2.3	1.2	1.68	<5	6	77.00	7.71
3209154	Drill Core	146	0.58	0.118	9.9	23.4	0.22	1377	0.005	0.88	<0.01	0.19	<0.5	0.19	2.2	1.1	1.87	<5	7	76.10	7.77
3209155	Drill Core	125	0.63	0.143	11.9	21.8	0.21	1822	0.004	1.55	<0.01	0.17	<0.5	0.14	2.8	1.1	1.72	<5	6	74.70	7.89
3209156	Drill Core	111	0.47	0.106	9.4	21.4	0.15	1494	0.003	1.54	<0.01	0.15	<0.5	0.25	3.9	1.3	2.06	<5	7	75.00	7.66
3209157	Drill Core	149	0.33	0.120	13.4	25.1	0.08	2117	0.004	2.00	<0.01	0.15	<0.5	0.42	3.1	2.3	1.40	<5	5	74.20	8.27
3209158	Drill Core	88	0.29	0.096	6.4	19.6	0.09	333	0.003	1.39	<0.01	0.09	<0.5	26.17	2.2	5.1	6.98	<5	28	65.10	5.14
3209159	Drill Core	172	0.47	0.074	7.5	33.4	0.19	323	0.004	1.18	<0.01	0.06	0.6	32.29	1.9	4.3	8.87	8	9	61.20	3.55
3209160	Drill Core	137	0.42	0.072	5.4	26.6	0.16	246	0.003	1.35	<0.01	0.06	<0.5	31.26	2.4	4.8	9.82	8	10	58.70	4.04
3209161	Drill Core	302	0.24	0.080	9.1	51.2	0.05	362	0.048	2.06	<0.01	0.05	0.6	12.97	3.8	4.9	7.71	9	8	62.80	4.53
3209162	Drill Core	326	0.13	0.061	9.1	62.3	<0.01	310	0.084	1.67	<0.01	0.04	0.6	13.29	2.2	8.4	7.57	10	9	63.40	3.43
3209163	Drill Core	389	0.11	0.054	10.1	79.5	<0.01	279	0.116	1.53	<0.01	0.01	0.6	11.16	2.3	8.0	6.78	8	13	62.90	2.93
3209164	Drill Core	253	0.04	0.034	8.9	54.7	<0.01	269	0.077	0.69	<0.01	<0.01	1.5	9.20	0.7	4.8	6.46	<5	8	70.70	2.29
3209165	Drill Core	212	0.02	0.026	6.4	44.4	<0.01	234	0.061	0.42	<0.01	<0.01	1.1	7.77	0.7	3.8	5.88	<5	6	56.30	1.88
3209166	Drill Core	102	0.02	0.017	3.1	18.6	<0.01	192	0.029	0.16	<0.01	<0.01	1.7	10.54	<0.5	3.0	7.14	<5	7	49.10	1.08
3209167	Drill Core	80	<0.01	0.013	2.9	18.7	<0.01	343	0.024	0.17	<0.01	<0.01	<0.5	6.83	<0.5	2.8	4.02	<5	3	33.80	0.70
3209168	Drill Core	84	0.02	0.016	4.0	22.9	<0.01	481	0.024	0.23	<0.01	<0.01	<0.5	4.19	<0.5	2.4	2.84	<5	4	48.40	0.83
3209169	Drill Core	192	0.13	0.071	9.8	47.6	<0.01	352	0.054	0.37	<0.01	<0.01	0.6	3.17	1.2	3.5	4.27	<5	4	73.50	1.84
3209170	Drill Core	364	0.22	0.107	18.3	80.1	<0.01	762	0.097	0.57	<0.01	<0.01	0.7	2.75	1.8	3.4	3.16	<5	4	84.00	3.03
3209171	Drill Core	165	0.11	0.046	7.2	39.2	<0.01	596	0.049	0.33	<0.01	<0.01	0.9	3.71	0.7	4.0	3.01	<5	3	59.60	1.51
3209172	Drill Core	53	<0.01	0.010	1.7	11.3	<0.01	591	0.016	0.12	<0.01	<0.01	<0.5	2.43	1.1	2.7	2.75	<5	2	23.30	0.54
3209173	Drill Core	72	0.02	0.012	2.8	20.1	<0.01	461	0.021	0.18	<0.01	<0.01	<0.5	3.37	<0.5	3.3	2.84	<5	4	32.20	0.79
3209174	Drill Core	109	0.03	0.029	5.6	29.1	<0.01	868	0.027	0.34	<0.01	<0.01	0.5	4.27	0.5	4.0	3.56	<5	3	44.90	1.28
3209175	Drill Core	138	0.08	0.048	6.8	31.4	<0.01	450	0.033	0.27	<0.01	<0.01	<0.5	5.26	0.6	4.7	2.84	<5	5	47.30	1.57
3209176	Drill Core	155	0.06	0.046	6.9	34.8	<0.01	317	0.037	0.31	<0.01	<0.01	0.7	8.73	<0.5	6.1	4.98	<5	4	51.90	2.08
3209177	Drill Core	148	0.08	0.044	7.8	39.6	<0.01	189	0.033	0.26	<0.01	<0.01	0.5	8.20	0.6	6.0	4.94	<5	4	68.80	1.93
3209178	Rock Pulp	10	3.89	0.039	19.9	13.6	2.11	103	0.013	0.78	<0.01	0.49	<0.5	4.92	3.2	48.4	11.36	<5	3	34.40	6.96
3209179	Drill Core	94	0.04	0.024	4.6	24.9	<0.01	389	0.021	0.23	<0.01	<0.01	<0.5	5.46	<0.5	4.9	3.07	<5	3	50.60	1.44
3209180	Drill Core	88	0.04	0.018	3.2	22.1	<0.01	272	0.025	0.16	<0.01	<0.01	<0.5	6.47	0.6	3.8	3.57	<5	4	34.60	0.95



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Page: 2 of 4

Part: 3 of 3

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Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC006	TC000	TC000	LF726
Analyte	Fe2O3	CaO	MgO	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	CO2	TOT/C	TOT/S	Zn
Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
MDL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.02	0.02	0.02	0.1
3209151	Drill Core	3.17	0.80	0.57	1.28	0.02	0.39	0.27	0.01	2.63	<0.01	<0.01	0.02	6.41	98.59	0.58	2.93	2.22
3209152	Drill Core	3.29	0.93	0.66	1.37	0.02	0.42	0.27	0.02	1.74	<0.01	<0.01	<0.01	7.04	99.36	0.86	3.18	2.26
3209153	Drill Core	2.68	0.67	0.49	1.25	0.02	0.40	0.26	0.01	1.57	<0.01	<0.01	<0.01	6.61	98.92	0.45	3.13	1.92
3209154	Drill Core	3.06	0.86	0.59	1.16	0.02	0.41	0.26	0.01	1.56	<0.01	0.01	<0.01	6.88	98.93	0.70	3.02	2.13
3209155	Drill Core	3.15	0.92	0.55	1.03	0.02	0.39	0.32	0.02	3.05	<0.01	<0.01	<0.01	6.46	98.89	0.69	2.66	2.35
3209156	Drill Core	3.64	0.70	0.47	0.96	0.02	0.40	0.25	0.02	3.27	<0.01	0.01	<0.01	6.17	99.00	0.50	2.58	2.69
3209157	Drill Core	3.18	0.57	0.32	0.87	0.02	0.43	0.30	0.02	4.25	<0.01	0.01	0.03	6.32	99.32	0.26	2.83	2.32
3209158	Drill Core	5.28	0.47	0.24	0.47	0.02	0.29	0.22	<0.01	2.91	0.01	1.75	7.04	7.84	98.98	0.29	2.24	7.70
3209159	Drill Core	5.49	0.64	0.37	0.25	0.02	0.28	0.16	<0.01	2.46	<0.01	1.12	11.24	8.94	98.88	0.68	2.55	9.82
3209160	Drill Core	6.52	0.57	0.32	0.24	0.02	0.27	0.16	<0.01	2.91	<0.01	1.14	11.41	9.62	99.14	0.57	2.49	10.83
3209161	Drill Core	7.22	0.35	0.11	0.15	0.02	0.26	0.19	<0.01	4.82	<0.01	1.41	6.66	8.28	99.10	0.21	2.29	9.09
3209162	Drill Core	4.48	0.20	0.02	0.09	0.02	0.24	0.14	<0.01	3.99	<0.01	3.79	9.56	6.60	99.07	0.05	1.68	8.78
3209163	Drill Core	2.56	0.17	<0.01	0.04	0.02	0.23	0.13	<0.01	4.04	0.01	6.04	10.52	5.79	98.89	0.05	1.67	7.87
3209164	Drill Core	2.89	0.10	0.02	0.02	0.02	0.19	0.08	<0.01	2.82	<0.01	2.63	9.00	5.38	98.88	0.07	0.55	7.22
3209165	Drill Core	3.00	0.07	0.01	0.02	0.01	0.15	0.06	<0.01	13.17	<0.01	1.74	7.46	4.99	92.35	0.05	0.05	9.23
3209166	Drill Core	1.65	0.04	0.02	0.01	0.01	0.08	0.04	<0.01	15.59	<0.01	1.58	11.81	4.87	90.71	0.04	0.03	10.98
3209167	Drill Core	0.55	0.03	0.02	0.01	0.01	0.08	0.03	<0.01	29.84	<0.01	1.15	7.37	2.64	81.58	0.04	0.04	11.26
3209168	Drill Core	1.14	0.05	0.02	0.02	0.02	0.09	0.04	0.02	23.21	<0.01	0.93	5.08	2.57	86.42	0.18	0.08	8.49
3209169	Drill Core	3.75	0.22	0.02	0.01	0.02	0.14	0.17	<0.01	6.68	<0.01	1.21	3.39	4.48	97.14	0.11	0.12	5.95
3209170	Drill Core	3.16	0.35	0.02	0.02	0.02	0.22	0.26	0.01	0.82	<0.01	0.68	2.37	3.45	99.13	0.14	0.18	3.34
3209171	Drill Core	1.45	0.14	0.02	0.02	0.01	0.13	0.11	<0.01	16.13	<0.01	0.93	4.43	2.94	90.46	0.06	0.07	7.09
3209172	Drill Core	0.41	0.02	0.02	0.02	0.01	0.04	0.03	<0.01	38.98	0.02	1.01	5.14	2.00	77.39	0.06	0.05	12.19
3209173	Drill Core	0.64	0.03	0.02	0.02	0.01	0.07	0.03	<0.01	32.80	<0.01	1.39	5.20	2.29	80.68	0.07	0.04	11.15
3209174	Drill Core	1.72	0.08	0.02	0.03	0.01	0.11	0.07	<0.01	24.01	0.01	1.20	5.13	3.19	85.90	0.09	0.06	9.46
3209175	Drill Core	1.12	0.12	0.02	0.02	0.01	0.12	0.10	<0.01	22.85	0.01	1.70	4.21	3.08	86.04	0.08	0.07	8.38
3209176	Drill Core	1.99	0.09	0.03	0.02	0.01	0.16	0.10	<0.01	17.03	<0.01	1.41	7.16	4.64	90.45	0.05	0.05	9.29
3209177	Drill Core	1.89	0.13	0.03	0.03	0.02	0.16	0.10	<0.01	7.17	<0.01	1.24	7.49	4.40	96.15	0.04	0.08	6.77
3209178	Rock Pulp	11.40	5.41	3.81	3.48	0.17	0.22	0.09	<0.01	0.08	0.03	4.85	10.76	10.04	94.75	7.24	2.52	11.43
3209179	Drill Core	0.93	0.06	0.02	0.02	0.01	0.10	0.06	<0.01	21.06	<0.01	1.62	4.79	2.86	87.31	0.04	0.10	8.08
3209180	Drill Core	0.91	0.05	0.02	0.02	0.01	0.07	0.05	<0.01	30.20	<0.01	0.98	6.13	2.71	81.80	0.03	0.06	11.03



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MacMillan Pass

Report Date:

October 27, 2018

Page:

3 of 4

Part:

1 of 3

CERTIFICATE OF ANALYSIS

WHI18000778.1

Method Analyte Unit MDL		WGHT	FA330	FA330	FA330	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi
		kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	2	3	2	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
3209181	Drill Core	2.14	2	<3	<2	2.6	14.0	15322.5	61778	4.1	6.2	6.4	33	0.37	<5	<0.5	<0.5	24	279.3	8.0	<0.5
3209182	Drill Core	2.38	2	<3	<2	3.5	16.4	22578.4	64426	6.2	9.6	7.2	38	0.57	8	0.6	<0.5	27	287.8	16.1	<0.5
3209183	Drill Core	2.36	3	<3	6	5.3	31.0	32074.7	112707	8.5	15.5	11.8	73	0.73	24	0.9	0.8	19	507.4	18.4	<0.5
3209184	Drill Core	3.15	5	<3	<2	5.5	38.6	>40000	87370	12.4	16.0	10.1	111	0.95	23	0.9	0.7	27	394.3	27.7	<0.5
3209185	Drill Core	1.92	4	<3	3	7.0	24.9	28211.8	95672	8.9	19.4	13.0	118	1.58	30	0.8	0.7	22	436.3	18.7	<0.5
3209186	Drill Core	2.14	3	<3	<2	2.4	17.2	14088.4	70825	5.6	6.6	4.5	57	0.43	8	<0.5	<0.5	47	327.0	9.7	<0.5
3209187	Drill Core	2.45	3	<3	<2	2.9	15.7	13104.6	49288	6.2	5.6	3.6	43	0.79	8	<0.5	<0.5	39	217.1	8.6	<0.5
3209188	Drill Core	1.86	4	<3	4	4.9	21.6	12784.5	71587	10.1	16.9	12.3	50	1.05	19	0.8	0.7	29	294.6	12.1	<0.5
3209189	Drill Core	1.60	3	<3	3	6.8	31.2	18945.3	86011	18.2	22.9	20.1	67	1.27	41	1.0	1.4	14	355.3	23.8	<0.5
3209190	Drill Core	2.21	3	<3	3	4.1	17.5	15135.1	33515	11.3	11.6	13.2	49	0.57	17	0.7	0.8	29	127.9	14.5	<0.5
3209191	Drill Core	1.76	4	<3	<2	5.2	20.8	25564.5	70269	19.3	15.9	17.3	57	1.21	24	0.8	0.7	21	276.5	27.1	<0.5
3209192	Drill Core	2.18	3	<3	<2	4.4	16.0	>40000	60678	29.7	12.9	13.9	65	0.80	15	0.6	0.7	37	239.1	39.8	<0.5
3209193	Drill Core	2.72	4	<3	2	3.1	22.1	30801.9	69168	35.0	10.9	12.4	28	0.58	13	0.6	<0.5	40	266.7	32.5	<0.5
3209194	Drill Core	1.35	2	<3	<2	0.8	9.2	19.5	79	<0.5	1.5	4.7	604	1.90	<5	<0.5	2.0	34	<0.5	<0.5	<0.5
3209195	Drill Core	2.71	5	<3	<2	7.8	80.5	18248.2	148801	52.1	45.8	53.8	84	1.99	96	1.0	1.6	14	575.0	32.5	<0.5
3209196	Drill Core	1.94	4	<3	<2	3.6	57.8	32600.5	97587	74.6	13.2	19.1	60	0.84	32	<0.5	0.5	19	375.5	53.7	<0.5
3209197	Drill Core	2.42	4	<3	<2	3.1	124.4	>40000	141393	111.8	16.5	32.0	60	0.64	48	<0.5	<0.5	26	570.6	69.4	<0.5
3209198	Drill Core	4.86	7	<3	10	3.5	155.1	>40000	180470	228.3	19.1	39.0	97	2.08	189	0.9	<0.5	16	762.1	225.0	<0.5
3209199	Drill Core	2.08	6	<3	6	3.4	357.9	>40000>200000	266.5	14.5	44.9	114	3.66	347	0.7	<0.5	<5	1165.5	217.3	<0.5	
3209200	Drill Core	1.67	6	<3	<2	5.2	70.3	37093.9	108626	91.5	24.7	25.3	142	2.08	128	1.7	1.1	14	456.4	64.0	<0.5
3209201	Drill Core	2.40	5	<3	<2	3.3	89.5	>40000	103335	59.5	13.6	18.0	172	1.21	77	0.9	<0.5	25	423.0	50.6	<0.5
3209202	Drill Core	2.54	8	<3	<2	7.0	184.4	>40000	93266	46.7	38.3	20.6	707	5.20	162	0.9	1.1	41	426.6	64.4	<0.5
3209203	Drill Core	1.66	16	<3	<2	6.2	551.8	>40000	1249	60.7	36.2	23.5	1840	14.21	371	0.8	0.8	251	7.7	320.2	<0.5
3209204	Drill Core	2.33	16	<3	6	8.8	84.0	3695.2	502	4.6	38.2	23.2	787	11.91	266	1.0	0.8	74	1.7	42.7	<0.5
3209205	Drill Core	2.62	21	<3	4	14.2	250.6	17747.4	3164	17.5	72.0	38.9	460	14.93	342	1.8	2.3	50	10.6	71.8	<0.5
3209206	Drill Core	2.51	21	<3	5	15.4	176.5	19084.9	422	16.1	66.9	35.9	1595	13.39	197	2.1	2.0	280	2.2	56.1	<0.5
3209207	Drill Core	2.20	46	7	16	23.5	161.0	1446.7	105	3.9	98.9	39.8	839	8.96	144	3.1	3.2	174	<0.5	46.6	<0.5
3209208	Drill Core	3.56	30	11	8	20.0	100.3	1162.3	2187	2.9	81.5	28.7	644	6.21	94	3.1	3.1	132	7.2	34.3	<0.5
3209209	Drill Core	2.88	30	13	9	12.7	123.2	774.4	75	2.3	64.6	21.3	1208	5.88	81	1.7	2.5	182	<0.5	27.3	<0.5
3209210	Drill Core	3.56	24	3	4	16.6	119.6	462.3	50	1.6	74.1	19.6	414	3.93	75	2.1	3.7	84	<0.5	22.6	<0.5



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MacMillan Pass

Report Date:

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Page:

3 of 4

Part:

2 of 3

CERTIFICATE OF ANALYSIS

WHI18000778.1

Method Analyte Unit MDL		AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	
		V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	SiO2	Al2O3
		ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%
		10	0.01	0.001	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
3209181	Drill Core	17	<0.01	0.006	0.9	7.2	<0.01	305	0.004	0.06	<0.01	<0.01	<0.5	6.30	<0.5	4.7	3.31	<5	4	50.40	0.47
3209182	Drill Core	34	<0.01	0.004	1.3	11.2	<0.01	271	0.009	0.11	<0.01	<0.01	1.0	6.82	<0.5	8.7	3.84	<5	4	42.30	0.62
3209183	Drill Core	103	0.04	0.020	3.3	24.7	<0.01	171	0.029	0.16	<0.01	<0.01	0.9	12.39	<0.5	9.1	6.40	<5	5	53.30	1.30
3209184	Drill Core	84	0.03	0.010	2.1	19.0	<0.01	177	0.020	0.20	<0.01	<0.01	<0.5	10.92	0.6	13.6	5.90	<5	4	44.20	1.35
3209185	Drill Core	78	0.04	0.018	2.4	23.1	<0.01	189	0.018	0.20	<0.01	<0.01	0.9	12.42	0.8	10.1	6.53	<5	4	54.10	1.37
3209186	Drill Core	20	<0.01	0.001	0.6	7.1	<0.01	291	0.005	0.08	<0.01	<0.01	0.6	9.84	0.5	4.9	3.87	<5	2	30.00	0.50
3209187	Drill Core	20	<0.01	0.002	1.0	8.7	<0.01	307	0.004	0.09	<0.01	<0.01	<0.5	7.35	<0.5	4.0	3.20	<5	3	47.90	0.55
3209188	Drill Core	73	0.02	0.007	3.1	23.0	<0.01	217	0.018	0.19	<0.01	<0.01	<0.5	14.71	<0.5	4.4	4.54	<5	2	48.50	1.06
3209189	Drill Core	96	0.05	0.013	5.8	28.9	<0.01	206	0.027	0.23	<0.01	0.01	0.6	24.39	<0.5	5.7	5.41	<5	4	68.50	1.47
3209190	Drill Core	40	0.02	0.012	3.0	16.6	<0.01	506	0.009	0.18	<0.01	<0.01	<0.5	10.91	0.6	3.1	2.05	<5	<2	61.60	1.00
3209191	Drill Core	58	<0.01	0.010	3.2	20.8	<0.01	210	0.016	0.22	<0.01	0.03	0.6	25.63	<0.5	7.6	4.68	<5	3	59.80	1.05
3209192	Drill Core	54	<0.01	0.005	2.6	17.4	<0.01	263	0.015	0.17	<0.01	0.01	0.6	24.60	<0.5	9.6	3.88	<5	3	52.70	0.89
3209193	Drill Core	36	<0.01	0.001	1.2	10.0	<0.01	253	0.010	0.14	<0.01	<0.01	<0.5	30.22	0.6	4.9	4.20	<5	<2	35.60	0.79
3209194	Drill Core	30	0.84	0.040	6.3	4.1	0.54	176	0.115	1.17	0.10	0.12	<0.5	<0.05	4.1	<0.5	<0.05	<5	<2	69.70	14.00
3209195	Drill Core	179	0.04	0.018	5.6	43.0	<0.01	108	0.050	0.33	<0.01	0.02	0.9	80.27	0.9	6.7	9.15	7	5	54.70	1.87
3209196	Drill Core	48	<0.01	0.004	1.8	15.5	<0.01	158	0.014	0.18	<0.01	<0.01	<0.5	70.25	<0.5	4.3	5.51	<5	3	56.10	1.04
3209197	Drill Core	44	<0.01	0.003	0.8	11.3	<0.01	109	0.011	0.11	<0.01	<0.01	0.6	121.60	0.7	6.7	7.61	8	3	45.70	0.80
3209198	Drill Core	68	0.02	0.007	1.1	13.5	<0.01	67	0.012	0.15	<0.01	<0.01	<0.5	186.76	<0.5	12.7	13.09	12	4	36.20	0.84
3209199	Drill Core	80	0.05	0.015	3.2	12.3	<0.01	62	0.014	0.13	<0.01	<0.01	2.1	311.21	<0.5	25.6	17.29	18	<2	33.50	1.38
3209200	Drill Core	148	0.08	0.031	4.7	29.1	<0.01	121	0.031	0.17	<0.01	<0.01	1.0	107.17	1.2	3.4	7.62	<5	4	56.00	1.55
3209201	Drill Core	73	0.02	0.010	1.5	14.7	<0.01	120	0.016	0.08	<0.01	<0.01	<0.5	95.17	0.7	1.5	6.63	<5	2	45.60	0.69
3209202	Drill Core	120	0.15	0.052	5.0	30.2	0.02	116	0.037	0.42	<0.01	<0.01	<0.5	83.23	1.0	4.2	8.97	<5	4	65.20	1.58
3209203	Drill Core	157	2.46	0.066	4.1	32.4	0.94	74	0.037	0.59	<0.01	0.01	1.3	4.46	2.3	5.7	14.66	<5	3	46.60	1.63
3209204	Drill Core	195	0.66	0.059	5.3	36.7	0.20	89	0.021	0.84	<0.01	0.04	0.9	0.44	3.1	1.9	12.19	<5	3	63.30	2.69
3209205	Drill Core	278	0.21	0.076	7.4	48.2	0.04	73	0.010	0.65	<0.01	0.03	0.7	1.71	3.7	2.8	16.33	<5	7	55.10	4.00
3209206	Drill Core	134	0.88	0.092	6.6	23.4	0.31	91	0.003	0.50	<0.01	0.05	<0.5	0.70	3.0	2.5	14.49	<5	7	57.60	3.67
3209207	Drill Core	150	0.57	0.124	10.6	25.9	0.14	133	0.003	0.96	<0.01	0.08	<0.5	0.73	3.2	5.8	9.73	<5	9	63.10	7.22
3209208	Drill Core	156	0.54	0.149	11.9	27.3	0.11	196	0.004	1.19	<0.01	0.10	<0.5	0.92	2.7	2.8	6.55	<5	7	68.20	6.69
3209209	Drill Core	101	0.76	0.103	10.3	18.0	0.24	267	0.003	1.75	<0.01	0.09	<0.5	0.72	3.0	1.1	5.57	<5	7	67.70	6.55
3209210	Drill Core	123	0.41	0.112	14.1	21.4	0.09	419	0.005	1.65	<0.01	0.14	<0.5	0.35	2.4	1.0	3.41	<5	6	71.70	7.51



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Page: 3 of 4

Part: 3 of 3

CERTIFICATE OF ANALYSIS

WHI18000778.1

Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC006	TC000	TC000	LF726
Analyte	Fe2O3	CaO	MgO	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	CO2	TOT/C	TOT/S	Zn
Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
MDL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.02	0.02	0.02	0.1
3209181	Drill Core	0.53	<0.01	0.02	0.01	0.01	0.04	<0.01	<0.01	21.42	<0.01	1.58	5.98	2.00	86.54	0.02	0.03	8.57
3209182	Drill Core	0.82	<0.01	0.01	0.01	0.01	0.05	0.01	<0.01	24.82	<0.01	2.26	6.18	2.40	84.09	0.03	0.04	9.93
3209183	Drill Core	1.08	0.06	0.01	0.04	0.02	0.10	0.07	<0.01	13.17	<0.01	3.18	10.76	4.20	91.72	0.04	0.03	9.81
3209184	Drill Core	1.39	0.05	<0.01	0.03	0.02	0.10	0.04	<0.01	19.09	0.01	5.13	8.35	3.49	87.92	0.05	0.05	10.65
3209185	Drill Core	2.24	0.06	0.02	0.04	0.02	0.11	0.05	<0.01	13.44	<0.01	2.83	9.00	4.94	92.22	0.02	0.09	9.74
3209186	Drill Core	0.67	0.01	0.02	0.02	0.01	0.04	0.01	<0.01	32.17	0.01	1.45	6.88	2.65	79.97	0.03	0.03	11.94
3209187	Drill Core	1.19	0.02	0.02	0.02	0.01	0.05	0.01	<0.01	23.57	0.01	1.34	4.84	2.55	86.09	<0.02	0.02	9.17
3209188	Drill Core	1.60	0.04	0.02	0.04	0.01	0.09	0.03	<0.01	20.52	0.01	1.30	7.04	3.65	88.12	0.09	0.04	9.45
3209189	Drill Core	1.83	0.06	0.03	0.05	0.02	0.13	0.04	<0.01	6.77	<0.01	1.91	8.35	4.56	96.70	0.04	0.04	7.04
3209190	Drill Core	0.84	0.04	0.02	0.02	0.02	0.08	0.03	<0.01	16.31	<0.01	1.59	3.30	2.31	89.99	0.03	0.05	6.11
3209191	Drill Core	1.77	0.04	<0.01	0.11	0.01	0.09	0.03	<0.01	12.63	<0.01	2.59	6.77	3.45	91.69	0.03	0.04	7.99
3209192	Drill Core	1.19	0.03	<0.01	0.05	0.02	0.08	0.02	<0.01	17.11	0.01	4.76	6.00	3.22	89.91	0.07	0.05	8.23
3209193	Drill Core	0.90	0.02	0.01	0.01	0.01	0.06	0.01	<0.01	27.78	<0.01	3.35	6.96	3.30	84.00	0.07	0.04	11.21
3209194	Drill Core	3.42	2.47	1.12	1.89	0.10	0.38	0.10	<0.01	0.10	<0.01	<0.01	<0.01	1.19	98.88	0.24	0.12	0.03
3209195	Drill Core	3.07	0.08	0.03	0.07	0.02	0.18	0.06	<0.01	7.59	0.02	1.81	15.10	7.17	96.50	0.08	0.05	11.70
3209196	Drill Core	1.28	0.03	0.02	0.02	0.02	0.06	0.01	<0.01	12.28	<0.01	3.43	9.64	4.59	92.57	0.05	0.03	9.01
3209197	Drill Core	1.00	0.02	0.01	0.02	0.02	0.06	0.01	<0.01	14.61	0.02	4.27	14.22	5.21	91.48	0.04	0.02	11.80
3209198	Drill Core	3.20	0.05	<0.01	0.03	0.03	0.05	0.03	<0.01	6.83	0.03	16.53	18.23	7.84	96.42	0.03	0.05	15.12
3209199	Drill Core	5.41	0.07	<0.01	0.03	0.03	0.04	0.05	0.01	1.02	0.03	9.84	>24	11.16	99.55	0.02	0.03	20.76
3209200	Drill Core	3.19	0.12	0.02	0.04	0.03	0.11	0.07	<0.01	8.96	<0.01	3.84	10.84	6.67	95.43	0.05	0.04	10.58
3209201	Drill Core	1.84	0.05	0.01	0.02	0.03	0.05	0.03	<0.01	16.67	0.01	4.72	10.28	4.88	89.70	0.06	0.07	11.24
3209202	Drill Core	7.62	0.26	0.05	0.02	0.09	0.12	0.12	<0.01	0.87	0.01	4.24	9.32	7.18	99.41	0.91	1.03	9.83
3209203	Drill Core	21.50	3.75	1.65	0.03	0.27	0.10	0.16	<0.01	1.24	0.04	5.44	0.14	15.69	98.89	5.38	2.44	16.61
3209204	Drill Core	17.70	0.96	0.37	0.07	0.11	0.14	0.14	<0.01	1.52	<0.01	0.37	0.05	11.13	98.82	1.45	1.75	13.69
3209205	Drill Core	21.40	0.34	0.10	0.08	0.07	0.23	0.15	<0.01	0.28	<0.01	1.67	0.31	14.33	98.36	0.77	2.14	17.29
3209206	Drill Core	18.70	1.21	0.57	0.28	0.20	0.25	0.20	<0.01	0.47	<0.01	1.77	0.04	13.11	98.36	1.39	2.45	14.97
3209207	Drill Core	12.50	0.79	0.35	0.52	0.11	0.38	0.27	0.02	1.06	<0.01	0.13	<0.01	12.47	99.09	0.52	3.95	9.97
3209208	Drill Core	9.15	0.78	0.32	0.59	0.09	0.36	0.33	0.02	1.84	<0.01	0.12	0.22	10.32	99.33	0.42	3.90	7.34
3209209	Drill Core	8.42	1.08	0.54	0.61	0.16	0.33	0.24	0.02	3.75	<0.01	0.08	<0.01	8.64	98.60	0.98	2.69	6.52
3209210	Drill Core	5.90	0.65	0.36	0.93	0.06	0.39	0.28	0.02	3.54	<0.01	0.04	<0.01	7.65	99.48	0.39	3.21	4.40



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Project: MacMillan Pass

Report Date: October 27, 2018

Page: 4 of 4

Part: 1 of 3

CERTIFICATE OF ANALYSIS

WHI18000778.1

	Method Analyte Unit MDL	WGHT	FA330	FA330	FA330	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi
		kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	2	3	2	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
3209211	Drill Core	3.28	24	16	7	12.3	202.4	966.4	58	3.0	61.5	15.2	168	2.32	65	1.9	3.1	59	<0.5	19.5	<0.5
3209212	Drill Core	2.49	35	<3	8	14.8	69.8	122.4	30	1.4	73.6	19.3	435	3.24	76	2.0	2.7	76	<0.5	18.5	<0.5
3209213	Drill Core	3.22	25	12	9	12.0	115.8	727.1	22	1.7	70.2	23.3	754	3.46	69	1.3	2.2	91	<0.5	17.8	<0.5
3209214	Drill Core	2.34	16	4	6	4.4	753.6	30867.3	19750	27.9	48.7	23.5	3021	10.53	80	1.2	2.3	462	122.7	46.7	<0.5
3209215	Drill Core	2.19	14	<3	4	3.5	1152.2	17356.2	15866	15.4	48.9	29.7	3409	12.53	101	1.0	2.0	503	80.2	28.2	<0.5
3209216	Drill Core	2.91	16	<3	5	8.0	99.6	77.9	16	1.2	70.2	23.4	292	3.85	60	1.3	5.0	79	<0.5	18.4	<0.5
3209217	Drill Core	3.23	13	<3	6	4.1	105.1	38.3	22	0.6	49.3	15.9	1906	7.21	41	0.9	3.6	398	<0.5	12.6	<0.5
3209218	Drill Core	3.32	6	<3	4	0.6	63.6	8.3	10	<0.5	17.9	5.7	2447	7.49	24	<0.5	0.6	525	<0.5	5.2	<0.5
3209219	Drill Core	3.00	4	<3	4	0.6	59.8	11.1	9	<0.5	17.2	6.1	1364	3.20	16	<0.5	0.8	214	<0.5	1.5	<0.5
3209220	Drill Core	4.06	6	6	6	<0.5	92.8	12.2	14	<0.5	16.8	6.0	1845	4.51	24	<0.5	0.6	256	<0.5	1.5	<0.5
3209221	Drill Core	3.96	4	5	4	<0.5	42.0	10.6	11	<0.5	14.7	5.1	1416	3.47	10	<0.5	0.7	187	<0.5	1.3	<0.5
3209222	Drill Core	1.92	4	<3	3	<0.5	268.8	8.0	15	0.8	20.5	6.8	1688	4.31	23	<0.5	0.6	210	<0.5	1.9	<0.5



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Report Date: October 27, 2018

Page: 4 of 4

Part: 2 of 3

CERTIFICATE OF ANALYSIS

WHI18000778.1

	Method Analyte Unit MDL	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725
		V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	SiO2	Al2O3
		ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%
		10	0.01	0.001	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
3209211	Drill Core	105	0.27	0.101	13.6	17.6	0.05	997	0.009	1.38	<0.01	0.16	<0.5	0.36	1.9	0.9	1.75	<5	8	78.80	6.22
3209212	Drill Core	95	0.43	0.118	9.8	16.4	0.11	601	0.004	1.48	<0.01	0.12	<0.5	0.23	2.1	0.8	2.77	<5	8	73.60	7.14
3209213	Drill Core	57	0.49	0.060	8.6	11.3	0.17	585	0.003	1.15	<0.01	0.10	<0.5	0.23	2.5	0.6	2.95	<5	7	76.90	5.32
3209214	Drill Core	43	2.16	0.085	6.6	8.2	0.77	135	0.004	0.54	<0.01	0.15	<0.5	4.79	3.8	0.6	10.89	<5	4	51.00	5.90
3209215	Drill Core	37	2.56	0.092	4.8	5.9	0.87	105	0.003	0.45	<0.01	0.12	<0.5	3.16	4.3	<0.5	13.10	<5	5	47.40	5.61
3209216	Drill Core	47	0.44	0.087	15.3	10.8	0.12	1289	0.005	0.55	<0.01	0.25	<0.5	0.16	2.5	0.6	3.76	<5	3	71.70	10.20
3209217	Drill Core	31	3.09	0.049	12.0	7.9	1.08	961	0.004	0.38	<0.01	0.20	<0.5	<0.05	3.1	<0.5	3.12	<5	2	58.90	8.52
3209218	Drill Core	12	5.47	0.020	3.8	5.1	1.71	222	0.001	0.10	<0.01	0.05	<0.5	<0.05	1.9	<0.5	2.21	<5	<2	62.50	1.68
3209219	Drill Core	11	4.18	0.026	6.5	5.4	1.16	250	0.002	0.13	<0.01	0.07	<0.5	0.06	1.7	<0.5	0.24	<5	<2	76.20	2.00
3209220	Drill Core	12	6.28	0.014	6.2	5.5	1.85	224	0.001	0.12	<0.01	0.06	<0.5	0.05	1.8	<0.5	0.33	<5	<2	66.40	1.73
3209221	Drill Core	10	4.78	0.020	6.2	5.2	1.40	207	0.002	0.12	<0.01	0.07	<0.5	<0.05	1.2	<0.5	0.16	<5	<2	73.80	1.85
3209222	Drill Core	11	5.89	0.017	5.9	5.4	1.75	209	0.002	0.12	<0.01	0.07	<0.5	<0.05	2.3	<0.5	0.36	<5	<2	67.90	1.72



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Project: MacMillan Pass

Report Date: October 27, 2018

Page: 4 of 4

Part: 3 of 3

CERTIFICATE OF ANALYSIS

WHI18000778.1

Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC006	TC000	TC000	LF726
Analyte	Fe2O3	CaO	MgO	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	CO2	TOT/C	TOT/S	Zn
Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
MDL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.1
3209211	Drill Core	3.54	0.46	0.23	0.84	0.03	0.32	0.25	0.01	3.15	0.02	0.10	<0.01	5.41	99.79	0.15	2.58	2.55
3209212	Drill Core	5.06	0.70	0.36	0.87	0.06	0.35	0.28	0.02	3.28	<0.01	0.01	<0.01	7.08	99.22	0.43	3.18	3.79
3209213	Drill Core	5.28	0.79	0.44	0.80	0.09	0.29	0.14	0.01	2.73	0.01	0.08	<0.01	5.79	99.03	0.79	2.53	3.81
3209214	Drill Core	15.10	3.10	1.49	1.26	0.38	0.34	0.20	<0.01	1.07	0.05	2.86	1.97	11.25	96.84	4.51	2.32	11.44
3209215	Drill Core	18.00	3.68	1.68	1.22	0.44	0.33	0.21	<0.01	1.03	0.09	1.74	1.61	12.57	96.34	5.02	2.32	13.64
3209216	Drill Core	5.39	0.65	0.60	2.52	0.04	0.59	0.20	0.01	1.25	<0.01	<0.01	<0.01	5.61	98.98	0.50	1.54	3.59
3209217	Drill Core	10.30	4.11	2.12	2.18	0.24	0.48	0.11	<0.01	0.97	<0.01	<0.01	<0.01	9.13	97.26	7.23	3.14	3.07
3209218	Drill Core	10.50	7.36	2.90	0.42	0.31	0.08	0.05	<0.01	0.15	<0.01	<0.01	<0.01	10.99	96.99	11.80	3.70	2.13
3209219	Drill Core	4.45	5.55	2.02	0.52	0.17	0.10	0.06	<0.01	0.18	<0.01	<0.01	<0.01	7.49	98.77	7.63	2.46	0.23
3209220	Drill Core	6.31	8.54	3.17	0.44	0.23	0.09	0.04	<0.01	0.14	<0.01	<0.01	<0.01	11.91	99.04	12.00	3.71	0.34
3209221	Drill Core	4.72	6.44	2.39	0.50	0.17	0.09	0.04	<0.01	0.15	<0.01	<0.01	<0.01	9.79	99.95	8.84	2.83	0.16
3209222	Drill Core	5.92	7.94	2.94	0.46	0.20	0.09	0.04	<0.01	0.14	0.02	<0.01	<0.01	11.23	98.65	11.00	3.49	0.35



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QUALITY CONTROL REPORT

WHI18000778.1

	Method Analyte Unit MDL	WGHT	FA330	FA330	FA330	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi
		kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	2	3	2	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
3209163	Drill Core	2.53	12	<3	<2	12.3	55.0	>40000	109584	3.6	36.1	21.3	92	1.82	86	1.7	2.3	43	578.4	37.3	<0.5
3209197	Drill Core	2.42	4	<3	<2	3.1	124.4	>40000	141393	111.8	16.5	32.0	60	0.64	48	<0.5	<0.5	26	570.6	69.4	<0.5
3209221	Drill Core	3.96	4	5	4	<0.5	42.0	10.6	11	<0.5	14.7	5.1	1416	3.47	10	<0.5	0.7	187	<0.5	1.3	<0.5
Pulp Duplicates																					
3209156	Drill Core	3.04	15	<3	8	10.3	61.7	112.6	38	0.7	57.9	4.6	78	2.44	81	1.7	2.7	40	<0.5	8.9	<0.5
REP 3209156	QC																				
3209158	Drill Core	2.14	16	<3	<2	12.4	118.3	17412.8	72685	4.9	58.9	16.2	96	3.75	116	2.2	2.2	42	323.5	41.3	<0.5
REP 3209158	QC																				
3209162	Drill Core	1.91	15	5	5	13.2	48.1	39145.2	99855	3.0	36.1	23.2	83	3.14	113	2.1	2.3	31	578.2	48.8	<0.5
REP 3209162	QC																				
3209169	Drill Core	2.09	4	<3	<2	5.5	25.1	12976.9	34766	1.8	33.1	22.3	75	2.58	46	2.0	1.6	36	182.6	7.2	<0.5
REP 3209169	QC																				
REP 3209172	QC		4	<3	<2																
3209180	Drill Core	2.77	3	<3	<2	3.6	25.2	9715.7	63352	3.0	16.7	18.8	32	0.60	33	0.9	0.6	40	282.6	6.7	<0.5
REP 3209180	QC					3.5	25.2	9391.4	63115	2.9	16.3	17.8	32	0.60	36	0.8	0.7	38	277.8	6.6	<0.5
3209183	Drill Core	2.36	3	<3	6	5.3	31.0	32074.7	112707	8.5	15.5	11.8	73	0.73	24	0.9	0.8	19	507.4	18.4	<0.5
REP 3209183	QC		3	<3	<2																
3209188	Drill Core	1.86	4	<3	4	4.9	21.6	12784.5	71587	10.1	16.9	12.3	50	1.05	19	0.8	0.7	29	294.6	12.1	<0.5
REP 3209188	QC																				
3209192	Drill Core	2.18	3	<3	<2	4.4	16.0	>40000	60678	29.7	12.9	13.9	65	0.80	15	0.6	0.7	37	239.1	39.8	<0.5
REP 3209192	QC																				
3209195	Drill Core	2.71	5	<3	<2	7.8	80.5	18248.2	148801	52.1	45.8	53.8	84	1.99	96	1.0	1.6	14	575.0	32.5	<0.5
REP 3209195	QC																				
3209199	Drill Core	2.08	6	<3	6	3.4	357.9	>40000>200000	266.5	14.5	44.9	114	3.66	347	0.7	<0.5	<5	1165.5	217.3	<0.5	
REP 3209199	QC																				
3209202	Drill Core	2.54	8	<3	<2	7.0	184.4	>40000	93266	46.7	38.3	20.6	707	5.20	162	0.9	1.1	41	426.6	64.4	<0.5
REP 3209202	QC																				
3209205	Drill Core	2.62	21	<3	4	14.2	250.6	17747.4	3164	17.5	72.0	38.9	460	14.93	342	1.8	2.3	50	10.6	71.8	<0.5
REP 3209205	QC		25	<3	6																



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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	AQ270	AQ270	AQ270	LF725	LF725
		V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	SiO2	Al2O3
		ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%
		10	0.01	0.001	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	%	%
3209163	Drill Core	389	0.11	0.054	10.1	79.5	<0.01	279	0.116	1.53	<0.01	0.01	0.6	11.16	2.3	8.0	6.78	8	13	62.90	2.93
3209197	Drill Core	44	<0.01	0.003	0.8	11.3	<0.01	109	0.011	0.11	<0.01	<0.01	0.6	121.60	0.7	6.7	7.61	8	3	45.70	0.80
3209221	Drill Core	10	4.78	0.020	6.2	5.2	1.40	207	0.002	0.12	<0.01	0.07	<0.5	<0.05	1.2	<0.5	0.16	<5	<2	73.80	1.85
Pulp Duplicates																					
3209156	Drill Core	111	0.47	0.106	9.4	21.4	0.15	1494	0.003	1.54	<0.01	0.15	<0.5	0.25	3.9	1.3	2.06	<5	7	75.00	7.66
REP 3209156	QC																			75.00	7.65
3209158	Drill Core	88	0.29	0.096	6.4	19.6	0.09	333	0.003	1.39	<0.01	0.09	<0.5	26.17	2.2	5.1	6.98	<5	28	65.10	5.14
REP 3209158	QC																				
3209162	Drill Core	326	0.13	0.061	9.1	62.3	<0.01	310	0.084	1.67	<0.01	0.04	0.6	13.29	2.2	8.4	7.57	10	9	63.40	3.43
REP 3209162	QC																				
3209169	Drill Core	192	0.13	0.071	9.8	47.6	<0.01	352	0.054	0.37	<0.01	<0.01	0.6	3.17	1.2	3.5	4.27	<5	4	73.50	1.84
REP 3209169	QC																			73.50	1.85
REP 3209172	QC																				
3209180	Drill Core	88	0.04	0.018	3.2	22.1	<0.01	272	0.025	0.16	<0.01	<0.01	<0.5	6.47	0.6	3.8	3.57	<5	4	34.60	0.95
REP 3209180	QC	84	0.03	0.017	3.2	20.2	<0.01	282	0.024	0.15	<0.01	<0.01	<0.5	6.11	<0.5	3.8	3.54	<5	<2		
3209183	Drill Core	103	0.04	0.020	3.3	24.7	<0.01	171	0.029	0.16	<0.01	<0.01	0.9	12.39	<0.5	9.1	6.40	<5	5	53.30	1.30
REP 3209183	QC																				
3209188	Drill Core	73	0.02	0.007	3.1	23.0	<0.01	217	0.018	0.19	<0.01	<0.01	<0.5	14.71	<0.5	4.4	4.54	<5	2	48.50	1.06
REP 3209188	QC																			48.40	1.06
3209192	Drill Core	54	<0.01	0.005	2.6	17.4	<0.01	263	0.015	0.17	<0.01	0.01	0.6	24.60	<0.5	9.6	3.88	<5	3	52.70	0.89
REP 3209192	QC																				
3209195	Drill Core	179	0.04	0.018	5.6	43.0	<0.01	108	0.050	0.33	<0.01	0.02	0.9	80.27	0.9	6.7	9.15	7	5	54.70	1.87
REP 3209195	QC																				
3209199	Drill Core	80	0.05	0.015	3.2	12.3	<0.01	62	0.014	0.13	<0.01	<0.01	2.1	311.21	<0.5	25.6	17.29	18	<2	33.50	1.38
REP 3209199	QC																				
3209202	Drill Core	120	0.15	0.052	5.0	30.2	0.02	116	0.037	0.42	<0.01	<0.01	<0.5	83.23	1.0	4.2	8.97	<5	4	65.20	1.58
REP 3209202	QC																			65.20	1.57
3209205	Drill Core	278	0.21	0.076	7.4	48.2	0.04	73	0.010	0.65	<0.01	0.03	0.7	1.71	3.7	2.8	16.33	<5	7	55.10	4.00
REP 3209205	QC																				



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Report Date:

October 27, 2018

Page:

1 of 5

Part:

3 of 3

QUALITY CONTROL REPORT

WHI18000778.1

Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC006	TC000	TC000	LF726
Analyte	Fe2O3	CaO	MgO	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	CO2	TOT/C	TOT/S	Zn
Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
MDL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.02	0.02	0.02	0.1
3209163 Drill Core	2.56	0.17	<0.01	0.04	0.02	0.23	0.13	<0.01	4.04	0.01	6.04	10.52	5.79	98.89	0.05	1.67	7.87	
3209197 Drill Core	1.00	0.02	0.01	0.02	0.02	0.06	0.01	<0.01	14.61	0.02	4.27	14.22	5.21	91.48	0.04	0.02	11.80	
3209221 Drill Core	4.72	6.44	2.39	0.50	0.17	0.09	0.04	<0.01	0.15	<0.01	<0.01	<0.01	9.79	99.95	8.84	2.83	0.16	
Pulp Duplicates																		
3209156 Drill Core	3.64	0.70	0.47	0.96	0.02	0.40	0.25	0.02	3.27	<0.01	0.01	<0.01	6.17	99.00	0.50	2.58	2.69	
REP 3209156 QC	3.67	0.70	0.46	0.96	0.02	0.39	0.25	0.02	3.27	<0.01	0.01	<0.01	6.17	98.98				
3209158 Drill Core	5.28	0.47	0.24	0.47	0.02	0.29	0.22	<0.01	2.91	0.01	1.75	7.04	7.84	98.98	0.29	2.24	7.70	
REP 3209158 QC																2.17	7.88	
3209162 Drill Core	4.48	0.20	0.02	0.09	0.02	0.24	0.14	<0.01	3.99	<0.01	3.79	9.56	6.60	99.07	0.05	1.68	8.78	
REP 3209162 QC															0.06			
3209169 Drill Core	3.75	0.22	0.02	0.01	0.02	0.14	0.17	<0.01	6.68	<0.01	1.21	3.39	4.48	97.14	0.11	0.12	5.95	
REP 3209169 QC	3.78	0.22	0.02	0.01	0.02	0.14	0.17	<0.01	6.66	<0.01	1.25	3.41	4.48	97.22				
REP 3209172 QC																		
3209180 Drill Core	0.91	0.05	0.02	0.02	0.01	0.07	0.05	<0.01	30.20	<0.01	0.98	6.13	2.71	81.80	0.03	0.06	11.03	
REP 3209180 QC																		
3209183 Drill Core	1.08	0.06	0.01	0.04	0.02	0.10	0.07	<0.01	13.17	<0.01	3.18	10.76	4.20	91.72	0.04	0.03	9.81	
REP 3209183 QC																		
3209188 Drill Core	1.60	0.04	0.02	0.04	0.01	0.09	0.03	<0.01	20.52	0.01	1.30	7.04	3.65	88.12	0.09	0.04	9.45	
REP 3209188 QC	1.61	0.04	0.02	0.04	0.01	0.10	0.03	<0.01	20.43	<0.01	1.32	7.01	3.65	87.93				
3209192 Drill Core	1.19	0.03	<0.01	0.05	0.02	0.08	0.02	<0.01	17.11	0.01	4.76	6.00	3.22	89.91	0.07	0.05	8.23	
REP 3209192 QC																0.04	8.28	
3209195 Drill Core	3.07	0.08	0.03	0.07	0.02	0.18	0.06	<0.01	7.59	0.02	1.81	15.10	7.17	96.50	0.08	0.05	11.70	
REP 3209195 QC															0.08			
3209199 Drill Core	5.41	0.07	<0.01	0.03	0.03	0.04	0.05	0.01	1.02	0.03	9.84	>24	11.16	99.55	0.02	0.03	20.76	29.5
REP 3209199 QC																		29.6
3209202 Drill Core	7.62	0.26	0.05	0.02	0.09	0.12	0.12	<0.01	0.87	0.01	4.24	9.32	7.18	99.41	0.91	1.03	9.83	
REP 3209202 QC	7.62	0.26	0.05	0.02	0.09	0.13	0.12	<0.01	0.86	0.02	4.09	9.24	7.18	99.13				
3209205 Drill Core	21.40	0.34	0.10	0.08	0.07	0.23	0.15	<0.01	0.28	<0.01	1.67	0.31	14.33	98.36	0.77	2.14	17.29	
REP 3209205 QC																		



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Report Date:

October 27, 2018

Page:

2 of 5

Part:

1 of 3

QUALITY CONTROL REPORT

WHI18000778.1

		WGHT	FA330	FA330	FA330	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi
		kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	2	3	2	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
3209212	Drill Core	2.49	35	<3	8	14.8	69.8	122.4	30	1.4	73.6	19.3	435	3.24	76	2.0	2.7	76	<0.5	18.5	<0.5
REP 3209212	QC		38	5	12																
3209213	Drill Core	3.22	25	12	9	12.0	115.8	727.1	22	1.7	70.2	23.3	754	3.46	69	1.3	2.2	91	<0.5	17.8	<0.5
REP 3209213	QC					11.7	114.8	777.7	22	1.7	70.7	23.1	720	3.40	73	1.3	2.3	100	<0.5	18.5	<0.5
3209215	Drill Core	2.19	14	<3	4	3.5	1152.2	17356.2	15866	15.4	48.9	29.7	3409	12.53	101	1.0	2.0	503	80.2	28.2	<0.5
REP 3209215	QC		14	<3	3																
3209217	Drill Core	3.23	13	<3	6	4.1	105.1	38.3	22	0.6	49.3	15.9	1906	7.21	41	0.9	3.6	398	<0.5	12.6	<0.5
REP 3209217	QC																				
3209218	Drill Core	3.32	6	<3	4	0.6	63.6	8.3	10	<0.5	17.9	5.7	2447	7.49	24	<0.5	0.6	525	<0.5	5.2	<0.5
REP 3209218	QC																				
3209219	Drill Core	3.00	4	<3	4	0.6	59.8	11.1	9	<0.5	17.2	6.1	1364	3.20	16	<0.5	0.8	214	<0.5	1.5	<0.5
REP 3209219	QC																				
Core Reject Duplicates																					
3209172	Drill Core	2.66	5	7	7	2.0	10.4	9903.2	52412	1.4	5.4	3.7	24	0.27	5	0.6	<0.5	38	295.2	4.3	<0.5
DUP 3209172	QC		3	<3	<2	2.2	10.3	9743.4	53305	1.3	6.6	3.9	25	0.26	5	0.5	<0.5	37	304.0	4.1	<0.5
3209206	Drill Core	2.51	21	<3	5	15.4	176.5	19084.9	422	16.1	66.9	35.9	1595	13.39	197	2.1	2.0	280	2.2	56.1	<0.5
DUP 3209206	QC		22	<3	2	15.8	176.5	19309.4	446	16.1	70.6	35.3	1515	13.40	204	2.2	2.3	272	2.3	53.7	<0.5
Reference Materials																					
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD GBM309-15	Standard																				
STD GBM309-14	Standard																				
STD GBM398-4-AR	Standard					938.2	4023.8	11599.8	5248	48.3	4277.8	1963.8	5363	3.93	8	0.6	0.7	16	9.8	7.4	12.6
STD GBM398-4-AR	Standard					890.9	3871.2	11647.4	5246	50.5	4188.8	1875.6	5186	3.88	5	0.7	0.9	15	9.4	7.2	13.6
STD GBM398-4-AR	Standard					943.1	3955.0	11167.9	5308	50.3	4198.0	1970.6	5525	4.04	8	0.7	0.9	10	9.7	7.3	13.6



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Report Date:

October 27, 2018

Page:

2 of 5

Part:

2 of 3

QUALITY CONTROL REPORT

WHI18000778.1

		AQ270 V ppm 10	AQ270 Ca % 0.01	AQ270 P % 0.001	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
3209212	Drill Core	95	0.43	0.118	9.8	16.4	0.11	601	0.004	1.48	<0.01	0.12	<0.5	0.23	2.1	0.8	2.77	<5	8	73.60	7.14
REP 3209212	QC																				
3209213	Drill Core	57	0.49	0.060	8.6	11.3	0.17	585	0.003	1.15	<0.01	0.10	<0.5	0.23	2.5	0.6	2.95	<5	7	76.90	5.32
REP 3209213	QC	58	0.54	0.060	9.2	11.2	0.17	643	0.003	1.14	<0.01	0.10	<0.5	0.23	2.0	0.6	2.91	<5	9		
3209215	Drill Core	37	2.56	0.092	4.8	5.9	0.87	105	0.003	0.45	<0.01	0.12	<0.5	3.16	4.3	<0.5	13.10	<5	5	47.40	5.61
REP 3209215	QC																				
3209217	Drill Core	31	3.09	0.049	12.0	7.9	1.08	961	0.004	0.38	<0.01	0.20	<0.5	<0.05	3.1	<0.5	3.12	<5	2	58.90	8.52
REP 3209217	QC																			58.90	8.53
3209218	Drill Core	12	5.47	0.020	3.8	5.1	1.71	222	0.001	0.10	<0.01	0.05	<0.5	<0.05	1.9	<0.5	2.21	<5	<2	62.50	1.68
REP 3209218	QC																				
3209219	Drill Core	11	4.18	0.026	6.5	5.4	1.16	250	0.002	0.13	<0.01	0.07	<0.5	0.06	1.7	<0.5	0.24	<5	<2	76.20	2.00
REP 3209219	QC																				
Core Reject Duplicates																					
3209172	Drill Core	53	<0.01	0.010	1.7	11.3	<0.01	591	0.016	0.12	<0.01	<0.01	<0.5	2.43	1.1	2.7	2.75	<5	2	23.30	0.54
DUP 3209172	QC	49	<0.01	0.011	2.0	12.2	<0.01	533	0.014	0.11	<0.01	<0.01	<0.5	2.43	0.6	2.7	2.76	<5	3	24.00	0.50
3209206	Drill Core	134	0.88	0.092	6.6	23.4	0.31	91	0.003	0.50	<0.01	0.05	<0.5	0.70	3.0	2.5	14.49	<5	7	57.60	3.67
DUP 3209206	QC	127	0.88	0.091	6.2	21.6	0.29	108	0.002	0.49	<0.01	0.04	<0.5	0.77	2.4	2.5	14.77	<5	9	57.70	3.71
Reference Materials																					
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD GBM309-15	Standard																				
STD GBM309-14	Standard																				
STD GBM398-4-AR	Standard	31	0.36	0.020	2.8	2011.6	0.12	25	0.114	0.51	0.26	0.12	2.9	3.31	1.5	<0.5	0.96	<5	<2		
STD GBM398-4-AR	Standard	25	0.33	0.015	2.8	1941.1	0.12	43	0.113	0.50	0.24	0.11	3.0	3.04	1.7	<0.5	0.94	<5	<2		
STD GBM398-4-AR	Standard	23	0.32	0.019	2.7	1963.2	0.12	18	0.113	0.45	0.25	0.10	3.4	2.84	1.8	<0.5	0.97	<5	4		



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Report Date:

October 27, 2018

Page:

2 of 5

Part:

3 of 3

QUALITY CONTROL REPORT

WHI18000778.1

		LF725 Fe2O3 %	LF725 CaO %	LF725 MgO %	LF725 K2O %	LF725 MnO %	LF725 TiO2 %	LF725 P2O5 %	LF725 Cr2O3 %	LF725 Ba %	LF725 Cu %	LF725 Pb %	LF725 Zn %	LF725 LOI %	LF725 SUM_T %	TC006 CO2 %	TC000 TOT/C %	TC000 TOT/S %	LF726 Zn %
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.02	0.02	0.02	0.1
3209212	Drill Core	5.06	0.70	0.36	0.87	0.06	0.35	0.28	0.02	3.28	<0.01	0.01	<0.01	7.08	99.22	0.43	3.18	3.79	
REP 3209212	QC																		
3209213	Drill Core	5.28	0.79	0.44	0.80	0.09	0.29	0.14	0.01	2.73	0.01	0.08	<0.01	5.79	99.03	0.79	2.53	3.81	
REP 3209213	QC																		
3209215	Drill Core	18.00	3.68	1.68	1.22	0.44	0.33	0.21	<0.01	1.03	0.09	1.74	1.61	12.57	96.34	5.02	2.32	13.64	
REP 3209215	QC																		
3209217	Drill Core	10.30	4.11	2.12	2.18	0.24	0.48	0.11	<0.01	0.97	<0.01	<0.01	<0.01	9.13	97.26	7.23	3.14	3.07	
REP 3209217	QC	10.20	4.12	2.13	2.19	0.24	0.48	0.11	<0.01	0.97	<0.01	<0.01	<0.01	9.13	97.17				
3209218	Drill Core	10.50	7.36	2.90	0.42	0.31	0.08	0.05	<0.01	0.15	<0.01	<0.01	<0.01	10.99	96.99	11.80	3.70	2.13	
REP 3209218	QC															11.73			
3209219	Drill Core	4.45	5.55	2.02	0.52	0.17	0.10	0.06	<0.01	0.18	<0.01	<0.01	<0.01	7.49	98.77	7.63	2.46	0.23	
REP 3209219	QC																2.47	0.24	
Core Reject Duplicates																			
3209172	Drill Core	0.41	0.02	0.02	0.02	0.01	0.04	0.03	<0.01	38.98	0.02	1.01	5.14	2.00	77.39	0.06	0.05	12.19	
DUP 3209172	QC	0.41	0.02	0.03	0.02	0.01	0.04	0.03	<0.01	38.62	<0.01	0.98	5.21	2.00	77.71	0.06	0.03	12.10	
3209206	Drill Core	18.70	1.21	0.57	0.28	0.20	0.25	0.20	<0.01	0.47	<0.01	1.77	0.04	13.11	98.36	1.39	2.45	14.97	
DUP 3209206	QC	18.30	1.19	0.54	0.28	0.19	0.26	0.21	<0.01	0.45	<0.01	1.72	0.04	13.03	97.86	1.38	2.41	15.03	
Reference Materials																			
STD COO1	Standard															2.43			
STD COO1	Standard															2.24			
STD COO1	Standard															2.38			
STD COO1	Standard															2.36			
STD COO1	Standard															2.46			
STD COO1	Standard															2.43			
STD GBM309-15	Standard																0.19	27.56	
STD GBM309-14	Standard																		22.2
STD GBM398-4-AR	Standard																		
STD GBM398-4-AR	Standard																		
STD GBM398-4-AR	Standard																		



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Project:

MacMillan Pass

Report Date:

October 27, 2018

Page:

3 of 5

Part:

1 of 3

QUALITY CONTROL REPORT

WHI18000778.1

		WGHT	FA330	FA330	FA330	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi
		kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	2	3	2	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
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS135	Standard					8.5	298.7	16912.3	27934	56.3	35.1	28.9	3874	8.84	933	9.9	11.2	26	67.7	41.4	5.4
STD OREAS605	Standard					5.1	49837.2	910.5	2161	>1000	1570.4	99.6	88	3.68	1736	1.0	2.5	50	14.4	316.1	21.3
STD OREAS72B	Standard																				
STD OREAS72B	Standard																				
STD OREAS72B	Standard																				
STD OREAS927-AR	Standard					1.1	10842.5	223.1	707	4.1	29.1	28.0	1200	8.20	13	1.7	12.9	14	1.1	1.4	73.0
STD OREAS927-AR	Standard					1.1	10600.3	226.6	704	4.0	30.0	28.6	1114	7.88	13	1.7	13.2	13	1.0	1.4	69.4
STD OREAS927-AR	Standard					1.2	10609.5	224.0	727	4.2	30.3	30.1	1109	8.44	13	1.5	12.9	14	1.2	1.6	70.1
STD PD05	Standard	514		437	624																
STD PD05	Standard	495		441	611																
STD PD05	Standard	504		427	606																
STD PD05	Standard	538		458	637																
STD PG04	Standard	963		877	1216																
STD PG04	Standard	973		923	1229																
STD SY-4(D)	Standard																				
STD SY-4(D)	Standard																				
STD SY-4(D)	Standard																				
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD GBM309-15 Expected																					



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Project:

MacMillan Pass

Report Date:

October 27, 2018

Page:

3 of 5

Part:

2 of 3

QUALITY CONTROL REPORT

WHI18000778.1

		AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725
		V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	SiO2	Al2O3
		ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%
		10	0.01	0.001	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
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS135	Standard	33	1.76	0.088	41.2	21.7	0.81	355	0.027	1.05	0.02	0.47	2.9	1.24	3.3	6.1	7.27	<5	<2		
STD OREAS605	Standard	<10	0.18	0.009	7.7	30.6	0.03	159	0.011	0.76	0.03	0.15	7.1	1.66	1.5	16.9	8.09	7	77		
STD OREAS72B	Standard																				
STD OREAS72B	Standard																				
STD OREAS72B	Standard																				
STD OREAS927-AR	Standard	35	0.31	0.052	28.0	40.9	1.90	54	0.088	3.22	<0.01	0.29	4.3	0.11	4.1	<0.5	1.77	9	16		
STD OREAS927-AR	Standard	34	0.28	0.048	27.3	40.4	1.85	46	0.076	3.08	<0.01	0.25	5.0	0.08	3.6	<0.5	1.73	9	16		
STD OREAS927-AR	Standard	34	0.30	0.048	25.9	41.3	1.94	42	0.071	3.21	<0.01	0.25	4.8	0.13	4.6	<0.5	1.80	9	15		
STD PD05	Standard																				
STD PD05	Standard																				
STD PD05	Standard																				
STD PD05	Standard																				
STD PG04	Standard																				
STD PG04	Standard																				
STD SY-4(D)	Standard																				
STD SY-4(D)	Standard																				
STD SY-4(D)	Standard																				
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD GBM309-15 Expected																					



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Project:

MacMillan Pass

Report Date:

October 27, 2018

Page:

3 of 5

Part:

3 of 3

QUALITY CONTROL REPORT

WHI18000778.1

		LF725 Fe2O3 %	LF725 CaO %	LF725 MgO %	LF725 K2O %	LF725 MnO %	LF725 TiO2 %	LF725 P2O5 %	LF725 Cr2O3 %	LF725 Ba %	LF725 Cu %	LF725 Pb %	LF725 Zn %	LF725 LOI %	LF725 SUM_T %	TC006 CO2 %	TC000 TOT/C %	TC000 TOT/S %	LF726 Zn %
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.02	0.02	0.02	0.1
STD GS311-1	Standard																0.97	2.35	
STD GS311-1	Standard																0.99	2.35	
STD GS311-1	Standard																1.00	2.42	
STD GS910-4	Standard																2.64	8.05	
STD GS910-4	Standard																2.64	8.41	
STD GS910-4	Standard																2.66	8.06	
STD OREAS133B(D)	Standard	11.50	5.30	3.74	3.46	0.16	0.23	0.09	<0.01	0.07	0.03	5.06	11.33	13.00	97.80				
STD OREAS133B(D)	Standard	11.50	5.31	3.71	3.44	0.16	0.22	0.09	<0.01	0.08	0.03	5.05	11.33	13.00	97.52				
STD OREAS133B(D)	Standard	11.50	5.33	3.75	3.44	0.16	0.23	0.09	<0.01	0.07	0.03	5.06	11.33	13.00	97.71				
STD OREAS135	Standard																		
STD OREAS605	Standard																		
STD OREAS72B	Standard	9.79	3.97	15.90	1.32	0.14	0.35	0.05	0.14	0.03	0.02	<0.01	<0.01	5.12	98.30				
STD OREAS72B	Standard	9.79	3.98	15.90	1.33	0.13	0.34	0.06	0.15	0.03	0.02	<0.01	<0.01	5.12	98.44				
STD OREAS72B	Standard	9.71	3.96	15.90	1.32	0.13	0.35	0.06	0.15	0.03	0.02	<0.01	<0.01	5.12	98.17				
STD OREAS927-AR	Standard																		
STD OREAS927-AR	Standard																		
STD OREAS927-AR	Standard																		
STD PD05	Standard																		
STD PD05	Standard																		
STD PD05	Standard																		
STD PD05	Standard																		
STD PG04	Standard																		
STD PG04	Standard																		
STD SY-4(D)	Standard	6.16	7.97	0.53	1.66	0.11	0.30	0.16	<0.01	0.04	<0.01	<0.01	0.03	4.56	98.77				
STD SY-4(D)	Standard	6.16	7.97	0.53	1.66	0.11	0.30	0.16	<0.01	0.04	<0.01	<0.01	0.03	4.56	98.80				
STD SY-4(D)	Standard	6.17	8.00	0.54	1.66	0.11	0.30	0.16	<0.01	0.03	<0.01	<0.01	0.03	4.56	98.94				
STD GS311-1 Expected																	1.02	2.35	
STD GS910-4 Expected																	2.65	8.27	
STD GBM309-15 Expected																	0.22	28.84	



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Project:

MacMillan Pass

Report Date:

October 27, 2018

Page:

4 of 5

Part:

1 of 3

QUALITY CONTROL REPORT

WHI18000778.1

	WGHT	FA330	FA330	FA330	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
	Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi
	kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
STD SY-4(D) Expected	0.01	2	3	2	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
STD OREAS72B Expected																				
STD OREAS133B(D) Expected																				
STD PG04 Expected		1004	903	1196																
STD OREAS135 Expected					8.25	282	17000	28000	55.2	33.7	28	3960	8.97	883	8.89	9.67		61	38	4.35
STD OREAS605 Expected					4.75	49800	856	2170	984	1538	93	86	3.75	1613	0.95			12.9	228	16.7
STD GBM309-14 Expected																				
STD COO1 Expected																				
STD PD05 Expected		519	430	596																
STD GBM398-4-AR Expected					917	3919	11750	5345	49.2	4135	1950	5260	3.95	6	0.7	0.8	13	9.2	7.2	12.9
STD OREAS927-AR Expected					1.06	10715	212	726	4.9	30.9	29.4	1110	8.15	13.5	1.7	12.5	13.1	1.1	1.3	66
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
SI BLK	Blank																			
SI BLK	Blank																			
SI BLK	Blank																			
BLK	Blank	2	5	2																
BLK	Blank																			
BLK	Blank	<2	<3	<2																
BLK	Blank	3	<3	<2																
BLK	Blank	2	<3	<2																
BLK	Blank	<2	<3	<2																
BLK	Blank				<0.5	<0.5	2.0	5	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5
SI BLK	Blank																			
BLK	Blank																			
BLK	Blank	<2	<3	<2																



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Project:

MacMillan Pass

Report Date:

October 27, 2018

Page:

4 of 5

Part:

2 of 3

QUALITY CONTROL REPORT

WHI18000778.1

	AQ270 V ppm 10	AQ270 Ca % 0.01	AQ270 P % 0.001	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
STD SY-4(D) Expected																			49.9	20.69
STD OREAS72B Expected																			51.16	8.97
STD OREAS133B(D) Expected																			33.83	6.91
STD PG04 Expected																				
STD OREAS135 Expected	33.4	1.83	0.086	39.8	22	0.833	366	0.026	1.09		0.487	2.93	1.21	3.51	6.61	7.08	5.25			
STD OREAS605 Expected	8.33	0.182	0.0116	3.95	27.5	0.0289	184.8	0.01	0.73	0.0328	0.134	5.9		1.05	15.3	7.86		75		
STD GBM309-14 Expected																				
STD COO1 Expected																				
STD PD05 Expected																				
STD GBM398-4-AR Expected	24	0.34	0.02	2.8	1950	0.12	21	0.111	0.48	0.25	0.11	3	3.21	1.79		0.94		3		
STD OREAS927-AR Expected	34	0.3	0.054	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																				
BLK Blank	<10	<0.01	<0.001	<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		
SI BLK Blank																			99.20	0.33
SI BLK Blank																			98.80	0.33
SI BLK Blank																			99.40	0.34
BLK Blank																				
BLK Blank																				
BLK Blank																				
BLK Blank																				
BLK Blank																				
BLK Blank	<10	<0.01	<0.001	<0.5	0.8	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.05	<5	<2		
SI BLK Blank																				
BLK Blank																				
BLK Blank																				



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Project:

MacMillan Pass

Report Date:

October 27, 2018

Page:

4 of 5

Part:

3 of 3

QUALITY CONTROL REPORT

WHI18000778.1

	LF725 Fe2O3 %	LF725 CaO %	LF725 MgO %	LF725 K2O %	LF725 MnO %	LF725 TiO2 %	LF725 P2O5 %	LF725 Cr2O3 %	LF725 Ba %	LF725 Cu %	LF725 Pb %	LF725 Zn %	LF725 LOI %	LF725 SUM_T %	TC006 CO2 %	TC000 TOT/C %	TC000 TOT/S %	LF726 Zn %
	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.02	0.02	0.02	0.1
STD SY-4(D) Expected	6.21		0.54	1.66	0.108	0.287	0.131		0.0345						4.56			
STD OREAS72B Expected	9.724	3.96	15.933	1.313	0.13	0.355	0.061	0.142	0.0335	0.0193					5.12			
STD OREAS133B(D) Expected	11.67	5.4	3.73						0.08	0.032	5.06	11.35						
STD PG04 Expected																		
STD OREAS135 Expected																		
STD OREAS605 Expected																		
STD GBM309-14 Expected																		22.7192
STD COO1 Expected															2.37			
STD PD05 Expected																		
STD GBM398-4-AR 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															0.03			
BLK Blank																		
SI BLK Blank	0.02	<0.01	0.03	0.02	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	99.63				
SI BLK Blank	0.01	0.01	0.02	0.01	<0.01	0.02	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.00	99.24				
SI BLK Blank	0.02	0.02	0.03	0.01	<0.01	0.02	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.00	99.88				
BLK Blank																		
BLK Blank															<0.02			
BLK Blank																		
BLK Blank																		
BLK Blank																		
BLK Blank																		
SI BLK Blank																		<0.1
BLK Blank															0.04			
BLK Blank																		



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Project:

MacMillan Pass

Report Date:

October 27, 2018

Page:

5 of 5

Part:

1 of 3

QUALITY CONTROL REPORT

WHI18000778.1

		WGHT	FA330	FA330	FA330	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi
		kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	2	3	2	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
BLK	Blank					<0.5	0.8	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5
Prep Wash																					
ROCK-WHI	Prep Blank		<2	<3	<2	1.5	4.1	2.3	46	<0.5	1.6	3.7	581	1.75	<5	<0.5	2.1	30	<0.5	<0.5	<0.5
ROCK-WHI	Prep Blank		3	<3	<2	1.3	3.6	2.1	33	<0.5	1.0	3.5	620	1.78	<5	<0.5	1.8	33	<0.5	<0.5	<0.5



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Project:

MacMillan Pass

Report Date:

October 27, 2018

Page:

5 of 5

Part:

2 of 3

QUALITY CONTROL REPORT

WHI18000778.1

		AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725
		V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	SiO2	Al2O3
		ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%
		10	0.01	0.001	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
BLK	Blank	<10	<0.01	<0.001	<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		
Prep Wash																					
ROCK-WHI	Prep Blank	23	0.67	0.043	6.9	2.1	0.51	76	0.098	1.04	0.11	0.13	<0.5	0.05	3.4	<0.5	<0.05	<5	<2	71.10	13.90
ROCK-WHI	Prep Blank	23	0.70	0.041	7.7	2.3	0.50	86	0.105	1.11	0.14	0.18	<0.5	<0.05	4.2	<0.5	<0.05	<5	<2	70.90	13.90



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MINERAL LABORATORIES
Canada

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Client:

Fireweed Zinc Ltd.

Suite 1020, 800 Pender Street

Vancouver British Columbia V5C 2V6 Canada

Project:

MacMillan Pass

Report Date:

October 27, 2018

Page:

5 of 5

Part:

3 of 3

QUALITY CONTROL REPORT

WHI18000778.1

		LF725 Fe2O3 %	LF725 CaO %	LF725 MgO %	LF725 K2O %	LF725 MnO %	LF725 TiO2 %	LF725 P2O5 %	LF725 Cr2O3 %	LF725 Ba %	LF725 Cu %	LF725 Pb %	LF725 Zn %	LF725 LOI %	LF725 SUM_T %	TC006 CO2 %	TC000 TOT/C %	TC000 TOT/S %	LF726 Zn %
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.02	0.02	0.02	0.1
BLK	Blank																		
Prep Wash																			
ROCK-WHI	Prep Blank	2.95	2.07	0.97	2.00	0.10	0.33	0.09	<0.01	0.09	<0.01	<0.01	<0.01	0.90	99.11	0.18	0.09	0.03	
ROCK-WHI	Prep Blank	2.98	2.09	0.96	2.04	0.09	0.34	0.09	<0.01	0.09	<0.01	<0.01	<0.01	1.00	99.06	0.22	0.08	0.04	