



**BUREAU  
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**MINERAL LABORATORIES**  
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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: Dennis Arne

Receiving Lab: Canada-Whitehorse

Received: June 14, 2018

Report Date: June 26, 2018

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## CERTIFICATE OF ANALYSIS

WHI18000104.1

### CLIENT JOB INFORMATION

Project: MacMillan Pass

Shipment ID:

P.O. Number

Number of Samples: 108

### SAMPLE DISPOSAL

RTRN-PLP Return After 90 days

DISP-RJT-SOIL Immediate Disposal of Soil Reject

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: Jack Milton  
Gilles Dessureau  
Jill Moore  
Maeve Murphy

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS230	106	Dry at 60C sieve 100g to -230 mesh			WHI
SLBHP	2	Sort, label and box pulps			WHI
AQ250	108	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	0.5	Completed	VAN
SHP01	108	Per sample shipping charges for branch shipments			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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# CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001
3199001	Soil	8.63	42.06	59.22	150.4	433	35.6	5.4	141	3.85	235.8	1.4	11.3	6.9	30.9	0.31	2.80	0.50	48	0.05	0.195
3199002	Soil	7.07	52.03	60.57	192.8	545	37.8	4.7	105	2.89	146.3	1.7	15.5	5.5	45.4	0.45	3.09	0.43	32	0.12	0.125
3199003	Soil	1.90	10.74	12.72	19.2	694	5.2	1.0	20	0.74	33.2	0.5	3.4	0.1	6.9	0.09	0.68	0.12	14	0.01	0.037
3199004	Soil	3.09	35.71	34.81	41.3	1524	20.9	2.5	41	1.09	72.6	1.2	13.9	<0.1	18.5	1.25	1.33	0.16	17	0.04	0.094
3199005	Soil	8.91	70.28	55.76	276.5	284	65.3	10.0	245	3.25	121.6	3.1	7.4	8.2	51.8	0.86	2.46	0.41	47	0.24	0.197
3199006	Soil	18.53	46.71	106.37	176.7	785	30.3	4.1	94	2.79	115.3	1.4	6.1	5.6	37.2	1.58	4.80	0.31	33	0.04	0.086
3199007	Soil	9.32	39.40	57.96	163.0	572	40.2	6.5	198	4.60	131.7	1.5	3.2	5.9	19.1	0.39	2.14	0.54	55	0.05	0.212
3199008	Soil	5.11	34.96	39.85	106.2	264	26.9	5.9	178	3.21	60.4	1.0	3.3	7.8	13.4	0.23	1.13	0.34	27	0.01	0.077
3199009	Soil	1.04	7.06	6.55	12.3	768	3.3	0.7	18	0.48	9.4	0.3	0.6	0.3	4.1	0.03	0.35	0.06	7	<0.01	0.021
3199010	Soil	5.66	45.33	45.12	136.8	252	32.0	5.6	150	3.16	70.3	1.4	4.2	5.5	15.9	0.32	1.53	0.36	30	0.04	0.092
3199011	Soil	5.67	29.05	44.18	98.5	581	21.9	4.3	121	3.11	71.2	1.0	5.3	6.1	14.5	0.20	1.21	0.36	35	0.02	0.097
3199012	Soil	6.53	43.71	68.53	156.0	419	28.6	4.9	129	3.12	78.5	1.5	4.4	4.4	18.8	0.44	1.71	0.37	33	0.06	0.106
3199013	Soil	5.64	38.82	42.50	107.3	1331	21.4	3.8	120	2.66	58.0	1.1	2.5	3.6	13.8	0.32	1.31	0.28	28	0.02	0.093
3199014	Soil	6.07	36.01	49.92	129.1	215	23.5	4.4	134	3.06	64.4	1.6	3.7	4.3	16.0	0.22	1.11	0.32	31	0.03	0.091
3199015	Soil	5.76	38.69	38.66	147.3	497	25.7	5.0	119	2.60	57.8	1.1	3.1	3.3	16.5	0.31	0.91	0.29	30	0.03	0.095
3199016	Soil	6.80	118.15	35.98	401.2	211	41.9	8.4	253	3.48	80.4	2.5	4.5	5.8	26.7	0.79	1.14	0.38	37	0.09	0.097
3199017	Soil	4.39	105.04	28.94	371.4	498	30.6	5.0	200	2.52	39.3	1.5	2.2	1.6	16.0	3.39	1.15	0.23	23	0.04	0.084
3199018	Soil	6.16	79.51	36.74	363.3	620	37.9	5.3	159	2.71	51.1	1.6	2.1	3.1	25.8	1.09	1.18	0.33	30	0.10	0.086
3199019	Soil	7.97	90.19	41.61	293.3	198	56.9	21.2	885	4.32	91.1	2.6	2.6	6.0	24.2	1.95	1.31	0.38	36	0.05	0.092
3199020	Soil	7.52	82.48	37.69	255.3	245	53.4	18.0	801	4.25	91.2	2.5	2.7	6.3	23.7	2.24	1.17	0.35	34	0.06	0.097
3199021	Soil	7.00	75.02	38.20	245.8	505	52.5	15.0	436	3.39	76.1	2.1	2.8	5.4	27.7	1.22	1.28	0.36	33	0.13	0.112
3199022	Soil	5.76	48.75	57.53	230.0	235	45.0	8.6	376	3.08	69.1	1.9	1.2	6.2	35.0	0.89	1.53	0.34	31	0.31	0.109
3199023	Soil	6.08	52.51	31.60	185.3	262	40.8	9.1	237	3.09	70.8	2.1	0.7	9.1	29.3	0.68	1.64	0.34	29	0.18	0.108
3199024	Soil	11.23	56.12	52.62	259.5	371	64.2	12.5	416	4.03	144.6	2.1	5.5	4.1	38.5	1.60	1.63	0.80	73	0.08	0.148
3199025	Soil	9.42	84.71	46.16	309.1	616	77.5	12.1	393	4.22	164.2	2.9	5.7	4.4	35.0	1.84	1.77	0.74	61	0.07	0.141
3199026	Soil	3.39	23.18	18.79	59.9	1252	22.2	2.8	70	0.97	27.9	1.0	2.6	0.6	19.9	0.62	0.82	0.21	19	0.13	0.080
3199027	Soil	6.65	43.62	38.84	212.0	406	70.4	24.5	838	3.13	93.5	1.9	4.5	2.3	34.0	1.55	1.56	0.41	39	0.24	0.119
3199028	Soil	4.83	13.89	12.62	65.9	354	18.2	4.3	182	1.29	45.2	0.5	2.0	0.6	16.2	0.44	0.92	0.20	21	0.13	0.057
3199029	Soil	4.66	20.06	17.70	75.5	614	19.8	3.7	78	1.58	50.5	0.8	2.2	0.9	13.1	0.31	1.02	0.27	25	0.03	0.079
3199030	Soil	7.18	48.13	34.63	141.0	1251	46.1	8.6	247	2.75	97.9	1.9	5.4	1.6	49.2	0.89	1.53	0.53	43	0.55	0.107



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	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1
3199001	Soil	27.6	18.1	0.12	190.5	0.007	<20	0.72	0.001	0.09	0.2	1.8	0.39	0.03	41	1.9	0.09	2.8
3199002	Soil	29.7	14.2	0.14	195.5	0.003	<20	0.73	0.001	0.09	0.2	1.7	0.40	0.03	133	1.2	0.07	1.9
3199003	Soil	6.8	3.8	0.02	42.0	0.009	<20	0.36	0.014	0.03	0.1	0.4	0.12	<0.02	50	0.2	<0.02	1.8
3199004	Soil	8.1	6.6	0.04	126.9	0.004	<20	0.55	0.011	0.06	0.1	0.4	0.23	0.04	143	1.2	0.03	1.7
3199005	Soil	25.3	17.7	0.13	320.8	0.004	<20	1.03	0.002	0.14	0.2	2.3	0.62	0.02	495	1.6	0.08	2.1
3199006	Soil	19.2	8.9	0.07	345.6	0.004	<20	0.40	0.002	0.11	0.1	1.5	1.27	0.16	496	2.0	0.13	1.4
3199007	Soil	22.1	21.4	0.14	159.9	0.007	<20	0.97	0.001	0.10	0.3	1.8	0.54	0.03	74	1.6	0.08	3.7
3199008	Soil	32.8	15.7	0.21	95.0	0.003	<20	0.96	0.001	0.07	0.1	1.7	0.18	<0.02	50	0.9	0.04	2.6
3199009	Soil	5.4	2.3	0.02	22.1	0.006	<20	0.19	0.016	0.02	<0.1	0.3	0.04	<0.02	44	<0.1	<0.02	0.9
3199010	Soil	30.1	14.8	0.18	113.9	0.003	<20	0.89	0.002	0.09	0.2	1.6	0.20	<0.02	48	0.9	0.05	2.5
3199011	Soil	34.5	14.5	0.11	109.1	0.004	<20	0.76	0.002	0.08	0.2	1.4	0.18	<0.02	50	1.0	0.06	2.9
3199012	Soil	30.4	15.3	0.14	128.5	0.003	<20	0.81	0.003	0.09	0.2	1.5	0.22	0.02	107	1.1	0.05	2.5
3199013	Soil	24.9	9.6	0.08	95.7	0.004	<20	0.72	0.004	0.07	0.2	1.3	0.21	<0.02	146	0.9	0.05	2.5
3199014	Soil	29.6	13.7	0.15	112.8	0.002	<20	0.79	0.002	0.09	0.2	1.9	0.30	0.02	144	1.6	0.07	2.5
3199015	Soil	28.9	12.8	0.14	144.3	0.003	<20	0.84	0.005	0.09	0.1	1.5	0.20	<0.02	51	0.9	0.05	2.9
3199016	Soil	30.6	17.7	0.19	199.0	0.002	<20	1.17	0.003	0.13	0.2	2.6	0.35	0.02	136	1.7	0.04	2.9
3199017	Soil	14.6	10.2	0.11	211.4	0.005	<20	1.06	0.009	0.07	0.3	1.2	0.36	0.03	89	1.3	0.04	2.4
3199018	Soil	20.8	14.7	0.18	155.6	0.002	<20	1.10	0.003	0.11	0.2	1.5	0.54	0.04	160	2.5	0.07	2.6
3199019	Soil	28.1	18.0	0.23	282.9	0.002	<20	1.29	0.004	0.11	0.2	2.6	0.37	0.02	211	3.9	0.05	3.1
3199020	Soil	30.1	16.8	0.20	262.7	0.002	<20	1.20	0.005	0.11	0.2	2.4	0.38	<0.02	183	3.4	0.07	2.9
3199021	Soil	30.2	16.9	0.21	262.4	0.002	<20	1.15	0.004	0.12	0.2	2.3	0.32	0.02	145	2.6	0.07	2.8
3199022	Soil	27.8	17.2	0.23	257.6	0.003	<20	0.95	0.004	0.12	0.8	2.1	0.21	0.03	137	3.3	0.05	2.6
3199023	Soil	43.1	16.0	0.24	215.3	0.003	<20	0.90	0.003	0.09	0.2	2.4	0.19	<0.02	123	2.5	0.07	2.6
3199024	Soil	15.2	26.5	0.12	396.0	0.002	<20	1.63	0.006	0.29	0.4	3.1	0.42	0.07	160	5.7	0.08	5.0
3199025	Soil	15.3	27.1	0.15	423.6	0.003	<20	1.79	0.006	0.27	0.3	3.0	0.41	0.08	241	7.4	0.07	4.4
3199026	Soil	6.6	8.9	0.04	175.7	0.004	<20	0.55	0.015	0.10	0.1	1.1	0.25	0.04	238	2.2	<0.02	2.3
3199027	Soil	16.9	16.8	0.16	338.6	0.003	<20	1.17	0.006	0.15	0.2	1.8	0.27	0.05	159	5.0	0.05	3.1
3199028	Soil	4.2	6.5	0.04	150.6	0.008	<20	0.49	0.025	0.08	0.1	0.9	0.11	0.02	71	1.9	0.02	2.1
3199029	Soil	15.2	10.7	0.07	113.4	0.004	<20	0.54	0.012	0.09	0.2	1.1	0.14	0.03	73	1.4	0.03	2.1
3199030	Soil	12.4	17.4	0.14	407.6	0.004	<20	1.19	0.016	0.20	0.3	2.0	0.29	0.06	203	5.8	0.05	3.4



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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001
3199031	Soil	4.89	31.10	22.09	108.2	788	30.9	4.0	74	1.97	69.4	1.3	3.7	0.6	27.0	0.40	0.97	0.35	32	0.29	0.071
3199032	Soil	6.21	41.78	33.82	134.1	902	41.0	6.8	127	2.63	96.1	3.2	6.3	1.8	48.5	0.36	1.25	0.53	43	0.84	0.094
3199033	Soil	6.47	35.02	38.99	140.4	1391	36.7	5.9	98	2.59	92.2	2.1	5.1	0.7	34.8	0.49	1.40	0.57	45	0.24	0.124
3199034	Soil	6.10	26.87	32.69	115.2	333	24.3	3.1	83	1.90	71.9	1.0	2.9	0.8	11.9	0.36	1.68	0.31	31	0.04	0.102
3199035	Soil	7.40	54.64	40.86	238.8	716	53.4	7.7	133	3.24	132.1	2.1	5.5	2.8	25.8	0.89	1.98	0.50	43	0.15	0.188
3199036	Soil	7.48	43.74	28.81	156.6	378	39.3	5.8	117	2.83	99.4	1.6	5.2	5.8	29.2	0.50	2.11	0.46	35	0.18	0.148
3199037	Soil	7.63	50.68	39.95	193.6	517	47.6	12.5	248	2.75	88.2	2.8	5.5	5.3	40.7	0.97	2.15	0.51	37	0.36	0.169
3199038	Soil	1.08	12.52	11.31	22.5	1168	7.5	1.4	14	0.45	11.7	1.2	3.9	<0.1	10.6	0.20	0.36	0.15	12	0.06	0.064
3199039	Soil	8.95	37.72	47.62	175.3	439	38.0	11.1	254	3.10	157.9	1.5	3.5	1.6	22.5	0.45	2.52	0.67	40	0.14	0.165
3199040	Rock Pulp	12.25	152.70	261.99	201.6	98	80.1	47.6	257	1.51	8.3	0.4	33.1	3.1	30.5	0.50	0.15	0.15	23	0.55	0.050
3199041	Soil	6.00	11.65	25.94	45.5	493	12.9	5.3	201	1.41	57.2	0.8	1.4	0.3	10.4	0.21	1.07	0.32	30	0.03	0.074
3199042	Soil	9.50	24.72	44.61	117.7	645	26.8	7.4	341	2.82	100.6	1.3	4.8	2.3	21.5	0.42	1.62	0.57	44	0.08	0.119
3199043	Soil	9.09	38.63	46.40	170.6	422	40.7	11.1	507	2.91	75.5	2.4	4.1	2.2	20.5	1.13	1.77	0.46	40	0.06	0.123
3199044	Soil	0.51	2.07	4.82	9.1	377	2.9	0.7	24	0.22	1.9	0.2	<0.2	<0.1	7.0	0.09	0.14	0.03	8	0.04	0.026
3199045	Soil	1.07	4.76	7.83	23.1	230	5.4	1.1	33	0.43	10.4	0.5	1.2	0.3	4.4	0.07	0.33	0.06	8	0.01	0.029
3199046	Soil	3.48	27.63	25.04	113.2	374	25.1	4.7	141	1.68	69.8	2.1	3.0	0.9	20.8	0.78	0.92	0.28	22	0.12	0.085
3199047	Soil	9.52	38.42	43.71	203.2	694	56.0	10.7	476	2.69	68.8	1.8	2.7	2.2	34.2	1.01	1.03	0.36	34	0.20	0.095
3199048	Soil	2.41	35.70	25.56	182.9	575	33.5	7.4	433	1.21	21.6	1.3	3.1	0.6	21.7	1.34	0.58	0.16	17	0.13	0.061
3199049	Soil	8.89	50.98	48.69	339.2	401	53.6	12.9	533	3.41	74.8	1.8	3.8	4.5	31.4	0.93	1.10	0.38	35	0.20	0.094
3199050	Soil	6.06	52.73	35.69	356.1	341	69.2	14.9	662	3.07	65.2	2.2	2.2	5.6	29.2	2.85	1.13	0.33	29	0.15	0.086
3199051	Soil	5.39	56.58	31.19	327.2	398	67.3	11.3	378	2.50	53.7	2.1	1.4	3.2	29.6	1.75	0.98	0.29	28	0.16	0.077
3199052	Soil	3.92	63.33	33.05	928.9	634	104.8	11.8	730	2.14	42.1	1.4	2.4	3.2	58.0	4.58	1.68	0.23	21	0.83	0.077
3199053	Soil	4.42	48.30	25.95	752.0	451	96.5	13.3	849	2.45	44.4	1.5	1.6	3.8	40.1	4.11	1.18	0.25	23	0.45	0.073
3199054	Soil	2.96	43.73	17.81	1264.4	351	83.3	5.1	352	1.76	45.9	1.5	1.6	2.2	42.4	4.82	1.04	0.23	23	0.52	0.075
3199055	Soil	4.02	46.31	21.91	1826.5	415	97.3	8.2	448	2.04	56.7	1.6	1.2	2.4	51.9	7.15	1.49	0.25	30	0.65	0.101
3199056	Soil	6.16	88.44	24.31	1894.4	564	99.9	9.2	335	2.60	73.7	2.3	1.0	2.9	40.3	8.72	1.84	0.32	38	0.35	0.110
3199057	Soil	6.71	80.74	28.57	486.7	177	48.2	8.2	266	2.91	71.1	1.9	0.9	4.2	24.4	1.00	1.40	0.32	38	0.08	0.120
3199058	Soil	7.54	107.06	35.17	313.4	250	44.7	10.3	352	2.94	90.1	2.1	4.1	3.3	27.4	0.76	1.75	0.34	35	0.12	0.118
3199059	Soil	6.54	47.43	31.05	298.2	1553	30.1	4.5	93	2.67	69.9	1.2	2.7	2.0	13.0	0.35	1.45	0.31	31	0.02	0.131
3199060	Soil	6.34	53.85	32.26	322.1	1009	29.8	4.6	95	2.63	65.0	1.3	3.0	1.7	13.1	0.39	1.52	0.31	30	0.02	0.139



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**Project:** MacMillan Pass

**Report Date:** June 26, 2018

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# CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1
3199031	Soil	7.2	12.6	0.09	284.0	0.004	<20	0.90	0.022	0.16	0.2	1.3	0.21	0.03	145	1.8	0.04	2.6
3199032	Soil	14.0	18.2	0.14	453.3	0.004	<20	1.38	0.017	0.22	0.2	2.1	0.33	0.05	218	3.2	0.05	3.9
3199033	Soil	12.5	20.5	0.10	408.3	0.004	<20	1.17	0.009	0.21	0.3	1.4	0.28	0.06	196	3.8	0.05	3.6
3199034	Soil	17.5	10.8	0.05	104.3	0.004	<20	0.45	0.004	0.05	0.2	0.8	0.18	<0.02	68	0.9	0.05	2.2
3199035	Soil	20.7	18.6	0.12	290.4	0.005	<20	1.15	0.006	0.14	0.2	1.9	0.30	<0.02	158	1.8	0.07	2.9
3199036	Soil	34.5	14.7	0.15	171.0	0.004	<20	0.73	0.001	0.09	0.2	1.7	0.19	<0.02	92	1.0	0.06	2.4
3199037	Soil	28.1	15.5	0.16	286.3	0.005	<20	0.86	0.005	0.11	3.5	2.0	0.26	0.02	134	1.8	0.05	2.6
3199038	Soil	4.9	6.3	0.03	103.8	0.002	<20	0.37	0.017	0.07	<0.1	0.3	0.13	0.04	132	0.5	<0.02	1.3
3199039	Soil	22.7	14.6	0.10	149.1	0.006	<20	0.59	0.005	0.09	0.3	1.2	0.33	<0.02	41	1.4	0.06	2.6
3199040	Rock Pulp	25.8	32.4	0.46	56.7	0.078	<20	0.78	0.081	0.11	<0.1	2.9	0.08	0.04	13	<0.1	<0.02	2.8
3199041	Soil	6.8	9.3	0.03	107.7	0.005	<20	0.40	0.013	0.07	0.2	0.7	0.17	0.03	63	1.0	0.05	2.0
3199042	Soil	17.6	17.5	0.12	204.7	0.004	<20	0.86	0.005	0.13	0.2	1.5	0.23	0.04	162	2.3	0.08	3.2
3199043	Soil	14.6	17.0	0.12	264.8	0.003	<20	1.01	0.006	0.12	0.3	1.8	0.25	0.06	191	5.6	0.05	3.0
3199044	Soil	2.0	3.5	0.02	33.9	0.008	<20	0.13	0.019	0.03	<0.1	0.4	0.04	<0.02	38	<0.1	<0.02	0.8
3199045	Soil	3.5	3.8	0.02	33.8	0.005	<20	0.18	0.016	0.03	<0.1	0.6	0.04	<0.02	33	0.1	<0.02	0.8
3199046	Soil	11.0	13.6	0.07	191.4	0.004	<20	0.70	0.013	0.09	0.1	1.1	0.18	0.05	151	3.0	0.03	2.6
3199047	Soil	17.8	45.7	0.13	290.8	0.004	<20	1.07	0.012	0.13	0.3	1.5	0.27	0.04	246	2.6	0.03	3.5
3199048	Soil	8.8	10.3	0.07	209.8	0.003	<20	0.66	0.016	0.10	0.1	1.1	0.20	0.03	102	1.3	0.03	2.0
3199049	Soil	27.9	36.8	0.21	282.1	0.002	<20	1.08	0.005	0.12	0.2	2.0	0.28	0.02	153	2.2	0.07	3.2
3199050	Soil	28.8	18.5	0.19	222.1	0.003	<20	1.01	0.006	0.10	0.2	2.1	0.25	<0.02	139	2.0	0.05	2.8
3199051	Soil	19.3	18.9	0.14	264.4	0.004	<20	0.97	0.013	0.11	0.2	2.0	0.23	<0.02	147	2.2	0.04	3.0
3199052	Soil	11.8	15.2	0.20	245.4	0.004	<20	0.82	0.006	0.11	0.2	1.8	0.23	0.08	153	3.3	0.05	2.1
3199053	Soil	16.4	17.7	0.19	198.9	0.003	<20	0.91	0.008	0.10	0.1	1.6	0.23	0.03	123	2.3	0.04	2.4
3199054	Soil	9.0	13.6	0.13	241.4	0.005	<20	0.85	0.018	0.13	0.1	1.6	0.20	0.04	109	2.6	0.05	2.3
3199055	Soil	12.0	14.5	0.15	354.3	0.006	<20	0.90	0.015	0.14	0.1	1.8	0.22	0.04	136	2.6	0.05	2.5
3199056	Soil	19.3	16.3	0.16	362.5	0.004	<20	1.02	0.007	0.15	0.1	1.9	0.30	0.03	155	2.4	0.05	2.7
3199057	Soil	26.5	16.1	0.14	201.7	0.003	<20	0.96	0.003	0.10	0.2	2.0	0.26	<0.02	46	1.6	0.06	2.5
3199058	Soil	28.2	15.6	0.15	194.5	0.003	<20	0.96	0.004	0.10	0.2	1.9	0.37	<0.02	149	2.0	0.07	2.6
3199059	Soil	20.0	12.6	0.12	106.2	0.003	<20	0.78	0.003	0.09	0.2	1.2	0.26	0.02	101	1.5	0.05	2.2
3199060	Soil	18.9	12.4	0.11	115.5	0.003	<20	0.79	0.003	0.09	0.2	1.1	0.27	0.03	120	1.4	0.04	2.3



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	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001
3199061	Soil	7.07	80.21	35.81	369.7	1039	32.9	5.0	116	2.83	72.4	1.7	3.3	1.9	19.4	0.44	1.71	0.33	31	0.07	0.171
3199062	Soil	7.63	55.05	44.78	522.8	478	35.6	8.9	357	3.99	87.7	2.0	3.9	3.5	27.1	0.69	1.78	0.30	34	0.11	0.133
3199063	Soil	6.35	34.16	34.24	177.6	1369	31.1	4.2	82	2.28	70.3	1.0	2.1	2.3	17.1	0.41	1.65	0.28	31	0.04	0.115
3199064	Soil	8.50	62.49	52.18	274.4	255	43.6	5.5	110	3.01	93.9	1.5	4.1	2.0	24.9	0.78	2.19	0.37	39	0.07	0.124
3199065	Soil	11.67	54.07	34.17	358.3	797	59.0	6.4	94	3.72	87.2	2.3	0.9	4.5	39.5	0.31	2.76	0.33	59	0.14	0.269
3199066	Soil	8.30	61.83	34.23	556.3	1670	55.1	7.3	120	3.50	123.0	1.9	3.7	6.8	27.9	0.44	2.35	0.47	41	0.15	0.186
3199067	Soil	10.48	63.94	34.39	515.0	897	58.4	7.1	100	3.86	103.2	1.8	4.6	6.2	33.2	0.45	2.43	0.45	48	0.11	0.197
3199068	Soil	10.90	73.14	31.01	2120.1	1030	74.5	9.5	168	3.67	105.0	2.8	3.1	4.8	53.2	1.63	3.32	0.40	47	0.28	0.222
3199069	Soil	9.20	58.55	30.85	283.5	655	46.7	5.7	110	3.02	86.5	1.5	3.3	1.3	23.5	0.39	1.94	0.29	46	0.06	0.160
3199070	Soil	5.39	33.38	17.82	80.9	5438	18.2	2.2	33	1.22	28.5	0.8	1.2	<0.1	11.7	0.39	1.06	0.16	26	0.01	0.078
3199071	Soil	6.16	35.75	19.77	97.4	4927	21.9	2.4	34	1.43	36.1	0.9	1.9	<0.1	12.1	0.41	1.33	0.18	29	0.01	0.083
3199072	Soil	0.94	9.52	9.15	32.7	2072	4.5	0.7	11	0.51	7.9	0.7	1.7	<0.1	8.6	0.12	0.40	0.07	11	0.02	0.074
3199073	Soil	1.52	12.97	13.09	20.5	4782	6.3	0.6	12	0.62	11.9	1.0	1.9	<0.1	10.4	0.14	0.64	0.11	11	0.02	0.087
3199074	Soil	19.19	50.38	18.36	992.4	820	38.3	9.2	802	29.94	2760.9	4.8	4.0	4.0	13.9	1.57	39.71	0.24	86	<0.01	0.357
3199075	Soil	26.21	45.47	21.53	938.1	939	34.8	13.0	932	32.79	4121.4	9.0	5.4	3.9	13.6	2.84	86.53	0.21	128	0.02	0.408
3199076	Soil	8.14	43.24	44.68	144.1	489	36.3	4.4	95	2.69	162.1	1.8	2.9	4.1	43.2	0.46	3.60	0.45	40	0.13	0.204
3199077	Soil	1.94	12.02	11.15	24.4	638	5.9	1.0	27	0.64	24.3	0.6	0.7	0.5	9.3	0.10	0.65	0.12	14	0.02	0.055
3199078	Soil	9.39	95.74	55.07	175.9	1354	47.4	6.6	170	3.43	134.7	2.8	7.0	2.0	42.2	0.46	3.33	0.41	45	0.05	0.173
3199079	Soil	5.39	19.63	36.64	69.0	475	15.1	2.3	51	1.30	66.0	0.7	1.0	0.4	20.7	0.16	1.53	0.31	35	0.02	0.053
3199080	Rock Pulp	0.65	23.38	1.95	19.6	22	17.6	5.8	239	1.39	0.9	0.4	<0.2	2.7	27.6	0.02	0.04	0.02	20	0.59	0.050
3199081	Soil	5.35	64.75	43.83	147.3	1350	62.8	13.9	660	1.93	63.6	2.2	3.8	0.3	42.7	1.92	2.07	0.27	24	0.30	0.106
3199082	Soil	2.38	29.10	15.16	86.4	1503	12.5	7.5	715	2.61	30.8	1.2	1.8	<0.1	9.8	0.44	1.10	0.12	14	0.02	0.074
3199083	Soil	9.17	95.60	44.89	406.2	829	68.1	9.6	970	4.54	81.8	3.8	1.0	3.3	52.1	2.40	2.94	0.38	44	0.09	0.159
3199084	Soil	10.94	60.62	26.69	782.4	333	59.6	22.2	2680	11.88	262.1	3.5	3.5	4.2	26.4	1.89	4.49	0.62	48	<0.01	0.204
3199085	Soil	8.12	32.46	25.74	326.4	553	33.2	3.7	98	1.96	58.4	1.3	0.3	1.0	21.7	0.29	1.51	0.25	48	0.01	0.103
3199086	Soil	9.05	51.82	27.08	610.1	834	45.1	6.2	219	2.84	76.1	2.1	1.1	1.5	31.9	0.37	2.06	0.29	48	0.06	0.157
3199087	Soil	6.95	71.95	19.71	2041.9	734	54.7	8.5	372	2.24	65.9	1.7	2.3	1.4	32.5	1.27	1.83	0.26	31	0.20	0.129
3199088	Soil	6.61	57.42	26.67	2393.1	732	68.6	7.3	233	2.72	76.5	1.8	2.4	1.0	36.2	1.92	1.93	0.31	36	0.18	0.162
3199089	Soil	8.75	67.24	31.83	2493.6	741	74.3	9.1	291	3.39	95.1	1.9	2.3	1.8	39.0	2.34	2.26	0.40	41	0.18	0.191
3199090	Soil	8.17	63.08	39.84	990.2	897	47.5	7.2	224	3.52	109.4	2.4	5.6	2.8	30.9	0.46	1.67	0.45	42	0.14	0.186



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	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1
3199061	Soil	21.6	14.7	0.13	132.9	0.003	<20	0.93	0.004	0.09	0.2	1.3	0.33	0.03	154	1.8	0.07	2.5
3199062	Soil	28.4	15.2	0.14	210.4	0.003	<20	0.82	0.004	0.10	0.5	1.8	0.37	0.02	200	2.4	0.06	2.5
3199063	Soil	21.3	12.0	0.07	134.9	0.004	<20	0.53	0.005	0.07	0.2	1.2	0.23	0.02	101	1.1	0.05	2.1
3199064	Soil	30.0	17.3	0.10	226.9	0.003	<20	0.69	0.003	0.10	0.2	1.4	0.32	<0.02	55	1.5	0.06	2.7
3199065	Soil	29.3	19.0	0.11	249.6	0.006	<20	0.80	0.002	0.16	0.2	2.4	0.38	<0.02	157	7.7	0.08	2.6
3199066	Soil	30.2	15.7	0.15	219.6	0.005	<20	0.94	0.004	0.14	0.2	2.2	0.38	<0.02	154	2.6	0.08	2.6
3199067	Soil	29.4	16.5	0.11	228.1	0.005	<20	0.84	0.002	0.14	0.2	2.1	0.40	<0.02	111	1.9	0.06	2.6
3199068	Soil	33.8	16.1	0.13	402.9	0.006	<20	0.79	0.002	0.13	0.2	2.3	0.42	<0.02	227	2.5	0.05	2.2
3199069	Soil	25.0	14.3	0.08	161.0	0.004	<20	0.72	0.003	0.11	0.1	1.2	0.30	<0.02	63	1.8	0.08	2.5
3199070	Soil	12.1	7.0	0.02	108.4	<0.001	<20	0.39	0.006	0.07	0.1	0.3	0.19	<0.02	82	1.0	0.04	1.9
3199071	Soil	12.7	7.5	0.02	116.1	0.001	<20	0.40	0.006	0.07	0.1	0.3	0.20	<0.02	92	0.8	0.05	1.9
3199072	Soil	3.6	3.5	0.01	74.5	0.001	<20	0.28	0.015	0.05	<0.1	0.2	0.14	0.02	118	0.3	<0.02	1.1
3199073	Soil	5.0	3.9	0.01	92.1	0.001	<20	0.33	0.012	0.05	<0.1	0.2	0.16	0.03	161	0.4	<0.02	1.0
3199074	Soil	9.4	14.6	0.03	238.1	0.010	<20	1.91	0.002	0.10	0.3	2.2	0.63	0.06	114	4.0	0.06	3.1
3199075	Soil	7.1	16.2	0.04	189.1	0.010	<20	1.76	0.002	0.10	0.5	3.1	0.42	0.11	139	5.3	0.04	2.4
3199076	Soil	30.3	12.1	0.10	169.1	0.006	<20	0.54	0.001	0.07	0.3	1.3	0.25	<0.02	61	1.6	0.08	2.2
3199077	Soil	10.6	3.8	0.02	64.7	0.008	<20	0.26	0.013	0.03	<0.1	0.4	0.11	<0.02	49	0.2	<0.02	1.6
3199078	Soil	21.7	15.1	0.09	237.8	0.005	<20	0.79	0.004	0.12	0.2	2.1	0.49	0.04	95	2.5	0.10	2.6
3199079	Soil	23.5	6.3	0.02	90.1	0.007	<20	0.38	0.003	0.04	0.2	0.5	0.20	<0.02	35	1.3	0.05	2.9
3199080	Rock Pulp	15.5	26.0	0.44	52.2	0.068	<20	0.72	0.070	0.11	<0.1	2.5	0.06	<0.02	8	<0.1	<0.02	2.4
3199081	Soil	8.7	10.7	0.06	307.1	0.006	<20	0.55	0.011	0.07	0.2	1.1	0.45	0.05	169	3.3	0.05	1.9
3199082	Soil	5.1	5.4	0.03	76.5	0.004	<20	0.35	0.018	0.03	<0.1	0.4	0.22	0.02	135	2.1	<0.02	1.6
3199083	Soil	22.7	15.4	0.10	345.3	0.004	<20	0.86	0.002	0.13	0.2	2.2	0.45	0.05	208	3.5	0.07	2.2
3199084	Soil	20.7	12.3	0.05	361.9	0.006	<20	0.83	0.003	0.13	0.3	2.1	0.71	0.04	218	2.6	0.07	2.4
3199085	Soil	17.9	13.5	0.06	171.1	0.005	<20	0.65	0.008	0.10	0.2	1.1	0.29	<0.02	90	1.5	0.06	2.8
3199086	Soil	19.1	15.0	0.09	219.6	0.005	<20	0.87	0.007	0.12	0.2	1.4	0.36	0.02	128	2.1	0.07	2.9
3199087	Soil	13.4	10.3	0.08	223.7	0.006	<20	0.86	0.014	0.11	0.2	1.3	0.40	0.03	137	1.8	0.06	2.0
3199088	Soil	15.3	13.4	0.10	335.5	0.006	<20	1.03	0.012	0.14	0.2	1.2	0.35	0.03	135	1.8	0.05	2.9
3199089	Soil	18.7	18.7	0.10	384.8	0.006	<20	0.98	0.010	0.14	0.4	1.5	0.40	0.03	151	2.5	0.07	2.8
3199090	Soil	25.0	17.9	0.13	254.5	0.003	<20	1.08	0.003	0.14	0.2	1.7	0.43	<0.02	197	2.2	0.08	2.7



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**Project:** MacMillan Pass

**Report Date:** June 26, 2018

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# CERTIFICATE OF ANALYSIS

WHI18000104.1

	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001
3199091	Soil	6.88	64.21	36.03	1357.7	632	55.5	15.6	570	2.76	74.0	1.8	2.5	2.0	33.6	1.76	1.63	0.29	36	0.16	0.135
3199092	Soil	4.04	63.59	20.93	758.3	378	46.0	5.5	255	1.79	36.9	1.5	2.3	1.2	20.8	2.15	0.98	0.23	25	0.09	0.090
3199093	Soil	4.37	56.36	24.21	704.3	315	40.4	5.0	248	1.88	38.8	1.5	2.4	1.2	21.1	1.72	0.96	0.27	27	0.08	0.103
3199094	Soil	1.00	23.11	5.11	125.2	404	19.9	1.8	81	0.54	12.5	1.0	0.3	0.2	11.0	0.85	0.44	0.07	8	0.10	0.038
3199095	Soil	2.70	89.11	20.98	602.9	760	89.2	4.6	207	1.84	45.1	3.2	2.6	2.0	42.7	4.91	1.29	0.27	26	0.38	0.090
3199096	Soil	0.49	6.33	4.22	25.0	178	5.8	0.6	11	0.20	1.8	0.3	<0.2	<0.1	6.0	0.20	0.20	<0.02	4	0.03	0.036
3199097	Soil	0.23	2.98	4.34	20.9	675	3.0	0.4	9	0.12	1.8	0.3	<0.2	<0.1	6.0	0.05	0.10	<0.02	3	0.03	0.021
3199098	Soil	6.84	45.32	33.62	306.0	209	44.4	13.7	445	3.40	81.6	1.6	1.0	5.0	27.1	0.54	1.46	0.38	34	0.12	0.103
3199099	Soil	4.38	26.48	17.53	172.6	379	26.4	5.2	110	1.81	56.8	1.0	<0.2	0.9	18.2	0.43	1.29	0.27	21	0.13	0.096
3199100	Soil	4.97	26.67	17.43	170.9	252	27.8	5.4	106	1.96	61.1	1.0	0.3	0.8	15.3	0.37	1.30	0.30	23	0.09	0.094
3199101	Soil	8.72	40.83	46.09	258.3	1232	46.5	28.1	1526	3.12	104.8	2.2	3.1	1.9	31.2	1.29	1.33	0.52	44	0.19	0.149
3199102	Soil	13.29	27.73	36.43	135.2	1253	30.1	3.8	100	1.97	91.6	1.7	2.1	0.4	21.6	0.41	2.17	0.43	59	0.12	0.140
3199103	Soil	9.10	30.61	32.05	104.5	850	28.1	3.7	104	2.11	50.7	2.0	2.9	0.1	20.9	0.32	2.14	0.27	36	0.16	0.104
3199104	Soil	0.25	1.84	2.80	6.9	67	2.5	0.3	8	0.11	0.7	0.3	<0.2	<0.1	6.6	0.08	0.08	<0.02	2	0.04	0.049
3199105	Soil	7.38	21.26	27.45	97.3	238	18.6	2.8	75	1.59	32.6	1.1	<0.2	<0.1	16.3	0.26	1.20	0.25	41	0.04	0.086
3199106	Soil	18.62	67.51	262.45	381.4	546	65.2	5.8	194	3.93	58.8	3.3	1.9	3.3	16.4	1.21	7.15	0.36	67	0.11	0.157
3199107	Soil	11.12	50.63	50.89	171.1	364	42.6	8.1	225	2.64	66.2	3.0	0.9	4.7	25.9	0.62	3.19	0.45	38	0.14	0.149
3199108	Soil	2.32	50.97	13.90	264.0	1350	47.5	3.3	351	1.17	23.3	2.3	3.1	<0.1	27.9	0.76	1.51	0.12	16	0.28	0.160





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# CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02
3199091	Soil	19.1	14.7	0.11	385.8	0.004	<20	1.07	0.009	0.12	0.2	1.6	0.35	0.03	182	2.7	0.07
3199092	Soil	15.4	12.2	0.10	248.6	0.005	<20	1.01	0.014	0.10	0.2	1.3	0.24	0.02	134	1.6	0.03
3199093	Soil	15.2	13.8	0.10	240.5	0.004	<20	0.97	0.012	0.11	0.1	1.2	0.26	0.03	105	1.7	0.04
3199094	Soil	2.2	3.8	0.02	123.0	0.006	<20	0.31	0.023	0.04	<0.1	0.6	0.06	0.03	59	1.0	<0.02
3199095	Soil	8.3	12.4	0.08	493.8	0.004	<20	0.89	0.017	0.11	0.2	2.0	0.21	0.06	188	3.5	0.06
3199096	Soil	1.0	3.7	0.01	39.4	0.005	<20	0.11	0.019	0.03	<0.1	0.3	0.02	<0.02	34	0.2	<0.02
3199097	Soil	0.8	1.7	0.01	21.2	0.005	<20	0.08	0.019	0.02	<0.1	0.3	<0.02	<0.02	36	<0.1	<0.02
3199098	Soil	29.1	17.2	0.19	174.8	0.003	<20	0.99	0.003	0.11	0.2	1.7	0.22	<0.02	76	2.1	0.06
3199099	Soil	17.0	11.7	0.12	131.6	0.004	<20	0.57	0.009	0.08	0.1	0.9	0.12	<0.02	67	0.9	0.04
3199100	Soil	19.7	11.7	0.12	127.8	0.003	<20	0.57	0.008	0.08	0.1	0.8	0.12	<0.02	44	0.9	0.05
3199101	Soil	17.7	20.6	0.14	452.9	0.004	<20	1.10	0.009	0.16	0.2	1.7	0.32	0.03	207	2.8	0.06
3199102	Soil	14.2	14.7	0.08	215.8	0.004	<20	0.63	0.007	0.12	0.3	1.0	0.32	0.03	297	1.3	0.10
3199103	Soil	9.8	17.3	0.08	191.7	0.005	<20	0.55	0.013	0.07	0.2	0.7	0.22	0.04	148	1.9	0.05
3199104	Soil	0.6	1.6	<0.01	50.2	0.002	<20	0.11	0.020	0.02	<0.1	0.1	<0.02	<0.02	22	<0.1	<0.02
3199105	Soil	14.8	10.2	0.05	203.4	0.002	<20	0.61	0.006	0.06	0.2	0.3	0.24	0.03	53	1.1	0.05
3199106	Soil	17.8	14.4	0.07	218.7	0.005	<20	0.60	0.001	0.06	0.2	2.4	0.35	<0.02	333	1.9	0.09
3199107	Soil	26.7	11.4	0.10	168.6	0.005	<20	0.66	<0.001	0.05	0.1	1.9	0.24	<0.02	207	1.5	0.04
3199108	Soil	5.0	6.2	0.05	165.6	0.007	<20	0.79	0.019	0.04	<0.1	0.6	0.15	0.08	316	2.2	0.03



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**Project:**

MacMillan Pass

**Report Date:**

June 26, 2018

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## QUALITY CONTROL REPORT

WHI18000104.1

	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001
Pulp Duplicates																					
3199015	Soil	5.76	38.69	38.66	147.3	497	25.7	5.0	119	2.60	57.8	1.1	3.1	3.3	16.5	0.31	0.91	0.29	30	0.03	0.095
REP 3199015	QC	6.07	38.11	40.15	143.0	497	24.8	4.9	124	2.66	58.6	1.1	2.5	3.2	17.1	0.36	1.01	0.29	31	0.04	0.094
3199051	Soil	5.39	56.58	31.19	327.2	398	67.3	11.3	378	2.50	53.7	2.1	1.4	3.2	29.6	1.75	0.98	0.29	28	0.16	0.077
REP 3199051	QC	5.30	54.12	30.55	309.6	381	63.3	11.0	360	2.39	50.8	2.0	1.9	3.1	27.5	1.56	0.94	0.28	28	0.16	0.073
3199087	Soil	6.95	71.95	19.71	2041.9	734	54.7	8.5	372	2.24	65.9	1.7	2.3	1.4	32.5	1.27	1.83	0.26	31	0.20	0.129
REP 3199087	QC	6.84	73.19	20.44	2068.9	747	57.4	9.1	372	2.30	66.8	1.7	1.9	1.5	31.5	1.28	1.86	0.25	30	0.20	0.130
Reference Materials																					
STD DS11	Standard	14.96	157.05	134.37	338.7	1520	81.2	13.6	1013	3.12	40.2	2.4	46.4	7.6	67.9	2.36	5.72	12.03	49	1.08	0.067
STD DS11	Standard	14.69	159.18	130.86	348.4	1681	83.1	13.8	996	3.09	38.9	2.4	66.8	7.0	63.7	2.44	5.83	11.14	46	1.04	0.062
STD DS11	Standard	15.37	169.15	132.31	350.6	1642	88.3	14.4	1043	3.25	42.0	2.4	60.2	7.2	68.9	2.50	6.17	11.49	49	1.07	0.069
STD OREAS45EA	Standard	1.75	711.03	15.33	33.7	280	414.9	55.5	416	23.19	11.2	1.9	60.0	11.1	3.9	<0.01	0.20	0.27	317	0.03	0.027
STD OREAS45EA	Standard	1.70	682.46	14.74	30.8	242	370.4	52.4	390	21.95	10.7	1.9	48.5	10.9	3.7	0.02	0.21	0.26	295	0.03	0.025
STD OREAS45EA	Standard	1.66	698.77	14.70	33.7	268	381.3	55.2	403	22.99	11.6	1.8	50.4	10.4	3.9	0.02	0.19	0.26	305	0.03	0.028
STD OREAS45EA Expected		1.6	709	14.3	31.4	260	381	52	400	22.65	11.4	1.73	53	10.7	4.05	0.03	0.32	0.26	303	0.036	0.029
STD DS11 Expected		13.9	149	138	345	1710	77.7	14.2	1055	3.1	42.8	2.59	79	7.65	67.3	2.37	7.2	12.2	50	1.063	0.0701
BLK	Blank	<0.01	0.02	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001
BLK	Blank	<0.01	0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001
BLK	Blank	<0.01	0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001



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# QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1
Pulp Duplicates																		
3199015	Soil	28.9	12.8	0.14	144.3	0.003	<20	0.84	0.005	0.09	0.1	1.5	0.20	<0.02	51	0.9	0.05	2.9
REP 3199015	QC	28.7	13.2	0.14	145.1	0.003	<20	0.88	0.005	0.10	0.2	1.5	0.22	<0.02	57	1.1	0.05	3.0
3199051	Soil	19.3	18.9	0.14	264.4	0.004	<20	0.97	0.013	0.11	0.2	2.0	0.23	<0.02	147	2.2	0.04	3.0
REP 3199051	QC	18.6	18.9	0.14	248.3	0.003	<20	0.97	0.013	0.11	0.2	2.0	0.22	<0.02	142	2.0	0.05	2.8
3199087	Soil	13.4	10.3	0.08	223.7	0.006	<20	0.86	0.014	0.11	0.2	1.3	0.40	0.03	137	1.8	0.06	2.0
REP 3199087	QC	13.2	12.2	0.08	214.3	0.006	<20	0.85	0.013	0.11	0.2	1.3	0.39	0.02	137	1.8	0.04	2.1
Reference Materials																		
STD DS11	Standard	19.1	60.5	0.84	403.5	0.098	<20	1.16	0.074	0.40	2.4	3.1	4.95	0.27	291	2.1	4.56	4.7
STD DS11	Standard	17.8	60.4	0.84	383.5	0.098	<20	1.11	0.070	0.39	2.9	3.1	4.70	0.26	270	2.0	4.37	4.8
STD DS11	Standard	18.7	60.7	0.87	419.9	0.094	<20	1.17	0.074	0.41	3.2	3.1	4.76	0.27	268	2.3	4.68	4.9
STD OREAS45EA	Standard	7.8	916.5	0.09	149.6	0.109	<20	3.65	0.026	0.06	<0.1	80.1	0.07	0.04	13	1.2	0.09	12.6
STD OREAS45EA	Standard	7.2	881.1	0.09	134.3	0.100	<20	3.33	0.019	0.05	<0.1	72.5	0.07	0.03	17	1.2	0.09	12.6
STD OREAS45EA	Standard	7.6	876.7	0.09	147.5	0.101	<20	3.49	0.018	0.06	<0.1	75.2	0.06	0.03	8	1.1	0.07	13.2
STD OREAS45EA Expected		7.06	849	0.095	148	0.0984		3.32	0.02	0.053		78	0.072	0.036	10	0.78	0.1	12.4
STD DS11 Expected		18.6	61.5	0.85	417	0.0976		1.129	0.0694	0.4	2.9	3.1	4.9	0.2835	260	2.2	4.56	4.7
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1