



**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: September 17, 2019  
Report Date: October 12, 2019  
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## CERTIFICATE OF ANALYSIS

WHI19000554.1

### CLIENT JOB INFORMATION

Project: MacMillan Pass  
Shipment ID: FWZ-19-BV-027  
P.O. Number  
Number of Samples: 138

### SAMPLE DISPOSAL

RTRN-PLP Return After 90 days  
RTRN-RJT Return After 60 days

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

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	134	Crush, split and pulverize 500g rock to 200 mesh			WHI
SLBHP	4	Sort, label and box pulps			WHI
CRUBW	134	Extra clean rock wash between samples in crusher			WHI
PULSW	134	Extra Wash with Silica between each sample			WHI
AQ270	138	1:1:1 Aqua Regia digestion ICP-ES/ICP-MS analysis	1	Completed	VAN
LF725	138	Li2B4O7/LiBO2 fusion, analysis by XRF		Completed	VAN
TC000	138	Total C/S Analysis by Leco	0.1	Completed	VAN
TC007	138	Graphite and Organic C by Leco After Ignition	0.1	Completed	VAN
TC006	138	Inorganic Carbon	0.2	Completed	VAN
TC009	138	Sulfide and Sulfate	0.1	Completed	VAN
SHP01	138	Per sample shipping charges for branch shipments			VAN
LF726	6	Li2B4O7/LiBO2 fusion, analysis by XRF		Completed	VAN

### ADDITIONAL COMMENTS

V2O5 from LF725 is Qualitative Data only.



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

WHI19000554.1

	Method	Analyte	Unit	MDL	WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270			
					Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
					kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
3201484	Drill Core	2.04	0.6	27.8	47.1	2589	1.5	301.2	51.2	13067	31.06	209	0.5	1.0	227	8.0	33.8	<0.5	155	0.81	0.252			
3201485	Drill Core	2.22	1.2	83.2	114.7	11416	4.1	561.6	85.1	6713	25.35	559	1.5	1.2	404	37.4	71.9	<0.5	162	0.95	0.381			
3201486	Drill Core	2.21	<0.5	143.0	67.7	90536	6.4	283.8	50.9	11114	27.52	184	<0.5	0.8	308	266.8	45.9	<0.5	179	0.89	0.308			
3201487	Drill Core	2.17	0.7	96.7	109.5	60900	5.2	320.0	52.2	10119	25.10	241	<0.5	0.6	343	164.9	52.8	<0.5	142	0.89	0.324			
3201488	Drill Core	2.44	1.9	172.5	74.4	45198	4.3	667.7	67.1	11972	29.09	713	2.1	0.9	171	116.5	82.3	<0.5	156	0.60	0.151			
3201489	Drill Core	2.36	4.8	131.0	158.9	51615	4.7	894.7	116.0	4552	15.85	946	4.6	1.2	241	146.6	120.1	<0.5	126	0.60	0.240			
3201490	Drill Core	2.07	1.1	86.7	241.2	13525	5.5	817.2	121.8	6920	25.49	866	1.7	1.1	275	38.6	134.1	<0.5	121	0.82	0.323			
3201491	Drill Core	2.16	1.3	103.7	197.5	64016	6.5	815.8	129.6	4553	19.25	592	1.4	0.9	432	181.1	77.6	<0.5	153	1.13	0.486			
3201492	Drill Core	2.19	<0.5	43.6	128.7	21645	3.3	375.5	56.4	13304	34.19	332	0.6	<0.5	161	60.1	39.8	<0.5	161	0.66	0.160			
3201493	Drill Core	2.70	<0.5	47.1	179.8	16296	3.9	324.6	57.0	11122	33.13	299	0.5	0.9	140	45.9	57.0	<0.5	178	0.60	0.153			
3201494	Drill Core	1.85	0.8	54.9	173.6	25103	3.4	345.4	66.4	9383	26.01	276	2.6	1.0	280	99.2	63.8	<0.5	142	0.86	0.324			
3201495	Drill Core	1.59	1.9	14.3	38.7	1519	0.8	77.9	10.1	6938	17.11	55	1.3	1.3	138	3.0	13.6	<0.5	105	0.32	0.100			
3201496	Drill Core	2.50	0.8	15.3	83.8	486	1.0	162.7	19.1	12551	28.12	93	3.5	0.8	206	4.2	14.4	<0.5	138	0.59	0.124			
3201497	Drill Core	2.92	1.9	9.8	81.0	253	0.6	292.0	24.8	11850	26.45	281	7.5	0.6	230	4.0	30.5	<0.5	151	0.60	0.161			
3201498	Drill Core	2.14	2.3	23.9	188.4	814	1.4	602.7	39.4	12289	31.27	749	2.0	0.8	127	2.6	54.4	<0.5	144	0.61	0.138			
3201499	Drill Core	2.31	3.5	60.2	164.8	11189	2.7	388.8	46.1	10301	27.27	435	2.2	0.7	163	34.4	45.5	<0.5	134	0.65	0.167			
3201500	Drill Core	1.24	1.3	51.7	3.8	42	<0.5	4.2	8.6	420	2.78	<5	1.0	2.9	87	<0.5	<0.5	<0.5	98	0.97	0.065			
3206501	Drill Core	1.52	0.8	295.2	834.7	150770	20.9	168.9	27.8	10172	27.24	162	1.3	0.7	122	451.0	118.4	<0.5	137	0.60	0.149			
3206502	Drill Core	1.31	<0.5	313.0	492.7	156565	21.8	170.4	27.4	10138	26.81	149	1.2	0.8	136	493.3	134.5	<0.5	136	0.60	0.155			
3206503	Drill Core	2.03	11.7	146.0	301.0	55625	6.2	397.5	48.7	7905	24.10	365	3.5	0.6	131	178.7	67.6	<0.5	146	0.47	0.127			
3206504	Drill Core	1.98	5.2	53.8	278.8	36105	3.9	345.9	46.8	10191	28.40	315	2.7	0.9	219	111.7	60.2	<0.5	148	0.75	0.222			
3206505	Drill Core	2.50	5.9	128.0	618.2	38481	10.9	376.2	44.9	5364	29.81	754	2.9	0.7	113	138.7	124.6	<0.5	103	0.36	0.094			
3206506	Drill Core	1.95	4.6	30.7	94.1	886	2.7	304.5	47.0	9386	25.60	227	2.3	0.7	150	3.0	36.7	<0.5	168	0.51	0.125			
3206507	Drill Core	1.54	0.9	44.1	56.3	495	4.1	162.1	42.2	9470	24.55	129	0.5	<0.5	56	1.8	40.2	<0.5	122	0.30	0.022			
3206508	Drill Core	2.53	5.7	167.2	280.7	89817	10.1	262.8	41.7	5585	17.44	264	2.8	0.8	219	307.2	77.5	<0.5	110	0.60	0.211			
3206509	Drill Core	2.52	1.2	40.0	462.0	14040	5.2	225.3	31.2	12826	30.73	196	1.1	1.0	178	45.2	40.5	<0.5	147	0.77	0.184			
3206510	Drill Core	1.89	9.6	40.3	153.3	17851	3.3	198.5	32.3	7822	19.38	168	3.5	0.6	116	58.2	39.4	<0.5	131	0.45	0.104			
3206511	Drill Core	2.06	11.2	125.4	221.8	99450	9.8	275.3	47.4	6392	22.04	349	5.3	0.9	106	345.3	86.8	<0.5	119	0.38	0.100			
3206512	Drill Core	1.08	7.8	48.4	156.8	68781	4.9	307.1	44.2	4686	14.00	328	5.8	0.9	206	284.9	57.2	<0.5	102	0.56	0.199			
3206513	Drill Core	1.81	8.7	33.3	115.2	6896	2.8	217.6	40.0	7004	19.14	171	5.0	<0.5	131	24.5	35.2	<0.5	150	0.37	0.090			



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	Method Analyte Unit MDL	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01	0.01
3201484	Drill Core	2.8	401.9	0.97	27	0.014	1.86	<0.01	<0.01	<0.5	2.48	15.8	<0.5	2.64	7	<2	15.58	6.60	47.52	1.20	1.66
3201485	Drill Core	1.2	645.1	0.66	71	0.014	2.42	<0.01	0.02	<0.5	13.07	13.1	1.6	8.81	9	<2	22.02	10.92	38.85	1.38	1.11
3201486	Drill Core	1.8	494.5	0.88	44	0.015	2.07	<0.01	<0.01	<0.5	99.78	17.1	1.1	6.85	13	<2	11.12	6.54	41.25	1.25	1.48
3201487	Drill Core	3.7	383.7	0.74	50	0.015	1.62	<0.01	<0.01	<0.5	67.25	13.9	1.2	5.71	11	<2	19.97	7.25	37.87	1.31	1.26
3201488	Drill Core	0.8	420.2	0.92	78	0.017	1.91	<0.01	0.01	<0.5	44.87	17.2	0.9	4.18	10	<2	12.48	7.80	44.15	0.88	1.55
3201489	Drill Core	1.3	450.0	0.51	162	0.013	2.15	<0.01	0.05	<0.5	57.78	10.0	1.3	5.35	12	<2	28.76	16.95	23.49	0.88	0.91
3201490	Drill Core	1.3	336.5	0.60	92	0.008	1.47	0.01	0.02	<0.5	16.55	12.1	3.9	10.65	8	<2	20.95	10.47	38.76	1.19	1.02
3201491	Drill Core	0.7	422.1	0.56	175	0.015	2.78	0.02	0.04	<0.5	68.78	10.2	2.1	8.53	15	<2	21.78	15.28	28.61	1.62	0.96
3201492	Drill Core	0.7	316.8	1.03	120	0.015	1.62	<0.01	<0.01	<0.5	25.15	15.2	1.3	4.39	9	<2	9.07	4.96	51.05	0.95	1.73
3201493	Drill Core	1.2	418.1	0.97	75	0.011	2.39	<0.01	<0.01	<0.5	17.77	13.0	1.2	8.15	10	<2	13.05	5.59	49.50	0.88	1.65
3201494	Drill Core	0.8	314.4	0.79	218	0.005	1.23	0.01	0.03	<0.5	24.50	15.2	1.4	5.75	5	<2	17.41	10.60	39.68	1.23	1.35
3201495	Drill Core	2.0	30.5	0.42	115	0.001	0.27	<0.01	0.06	<0.5	1.44	10.9	0.6	0.93	<5	<2	47.15	7.28	25.89	0.47	0.78
3201496	Drill Core	1.3	197.5	0.67	1608	0.003	0.86	<0.01	<0.01	<0.5	0.61	12.8	<0.5	0.83	<5	<2	24.61	4.31	43.01	0.87	1.14
3201497	Drill Core	1.0	197.4	0.69	26	0.004	0.94	<0.01	<0.01	<0.5	0.34	14.7	<0.5	0.75	<5	<2	28.84	4.10	40.28	0.88	1.19
3201498	Drill Core	0.9	231.3	0.68	204	0.008	0.64	<0.01	<0.01	<0.5	1.02	16.3	<0.5	1.52	<5	<2	18.90	3.99	47.78	0.90	1.18
3201499	Drill Core	0.9	256.8	0.62	56	0.005	0.95	<0.01	<0.01	<0.5	13.73	11.9	<0.5	2.52	<5	<2	24.98	5.67	42.03	0.95	1.06
3201500	Drill Core	7.3	5.6	0.85	183	0.176	1.82	0.22	0.31	<0.5	0.20	2.9	<0.5	<0.05	5	<2	60.65	17.02	6.16	6.33	2.80
3206501	Drill Core	0.9	238.7	0.65	17	0.008	1.18	<0.01	<0.01	<0.5	174.08	15.6	1.7	9.14	9	3	9.79	3.01	39.96	0.86	1.08
3206502	Drill Core	1.7	263.5	0.65	14	0.009	1.22	<0.01	<0.01	<0.5	192.25	16.6	2.4	9.53	10	3	9.95	2.88	39.73	0.86	1.09
3206503	Drill Core	0.7	204.3	0.49	63	0.005	1.63	<0.01	0.02	<0.5	67.43	14.1	0.9	6.94	8	5	24.73	8.28	36.48	0.69	0.84
3206504	Drill Core	1.3	305.4	0.68	39	0.011	1.56	<0.01	<0.01	<0.5	41.49	14.2	0.6	5.56	8	<2	20.51	5.08	42.88	1.08	1.15
3206505	Drill Core	1.0	189.0	0.41	48	0.003	0.92	<0.01	<0.01	<0.5	43.10	9.5	3.0	20.40	6	3	20.03	3.83	43.75	0.51	0.71
3206506	Drill Core	0.8	204.9	0.54	57	0.005	1.79	<0.01	0.01	<0.5	1.57	20.7	0.6	4.05	6	<2	23.71	11.08	39.03	0.75	0.94
3206507	Drill Core	<0.5	73.1	0.39	45	<0.001	0.45	<0.01	0.02	<0.5	1.41	18.0	<0.5	5.19	<5	<2	22.19	13.68	36.96	0.43	0.74
3206508	Drill Core	1.1	186.6	0.36	61	0.003	1.00	<0.01	0.01	<0.5	127.61	8.7	0.8	7.81	9	3	36.14	7.00	25.64	0.88	0.63
3206509	Drill Core	1.4	290.1	0.77	31	0.006	1.06	<0.01	<0.01	<0.5	19.89	18.3	<0.5	1.77	5	<2	16.86	4.36	47.07	1.14	1.33
3206510	Drill Core	0.8	138.2	0.44	76	0.003	0.56	<0.01	0.01	<0.5	23.23	14.8	<0.5	2.65	<5	3	41.02	6.69	29.00	0.65	0.76
3206511	Drill Core	1.1	136.0	0.49	83	0.003	0.42	<0.01	0.02	<0.5	127.71	14.7	1.7	11.27	8	3	26.80	5.20	32.24	0.55	0.81
3206512	Drill Core	1.0	170.1	0.37	138	0.003	0.76	<0.01	0.02	<0.5	97.34	12.8	0.6	5.42	5	<2	42.90	9.15	20.76	0.82	0.67
3206513	Drill Core	0.6	99.3	0.41	60	0.002	0.92	<0.01	<0.01	<0.5	9.96	18.7	<0.5	3.05	<5	<2	35.67	13.00	27.96	0.52	0.74



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Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008	LF726
Analyte	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	V2O5	TOT/C	TOT/S	C/ORG	C/GRA	CO2	S/S-	SO4	Zn
Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
MDL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05	0.1
3201484	Drill Core	0.03	1.67	1.42	0.58	0.09	0.02	<0.01	0.01	0.26	22.96	99.72	0.03	6.65	2.76	1.26	<0.02	19.73	1.62	3.42
3201485	Drill Core	0.20	0.87	2.52	0.90	0.15	0.08	<0.01	0.02	1.15	18.23	98.85	0.05	3.68	8.93	1.28	<0.02	8.76	7.13	5.38
3201486	Drill Core	0.04	1.38	1.60	0.68	0.10	0.03	<0.01	<0.01	9.18	21.83	98.87	0.03	5.65	7.04	0.88	<0.02	17.50	1.64	16.19
3201487	Drill Core	0.09	1.29	1.49	0.75	0.10	0.04	<0.01	0.02	6.15	20.03	99.24	0.03	5.23	5.80	0.85	<0.02	16.06	2.07	11.20
3201488	Drill Core	0.17	1.51	1.93	0.34	0.11	0.07	0.01	0.01	4.61	22.44	99.33	0.04	6.27	4.11	1.15	<0.02	18.77	1.08	9.10
3201489	Drill Core	0.83	0.58	4.23	0.57	0.26	0.34	<0.01	0.02	5.23	13.88	98.48	0.08	2.66	5.33	0.90	<0.02	6.41	2.19	9.43
3201490	Drill Core	0.30	0.88	2.21	0.70	0.13	0.12	<0.01	0.03	1.36	20.33	98.98	0.05	4.04	10.81	1.27	<0.02	10.11	8.89	5.75
3201491	Drill Core	0.63	0.57	3.30	1.10	0.20	0.25	<0.01	0.01	6.45	15.29	97.96	0.08	2.71	8.76	0.84	<0.02	6.83	4.75	12.03
3201492	Drill Core	0.06	1.68	1.06	0.36	0.07	0.04	<0.01	0.01	2.18	25.53	99.37	0.03	7.34	4.42	1.02	<0.02	23.17	2.40	6.08
3201493	Drill Core	<0.01	1.39	1.33	0.38	0.08	0.01	<0.01	0.03	1.64	23.55	99.52	0.03	5.86	7.97	0.68	<0.02	18.98	5.32	7.95
3201494	Drill Core	0.54	1.18	2.31	0.71	0.13	0.22	<0.01	0.01	2.54	20.92	99.63	0.05	5.15	5.58	0.95	<0.02	15.40	3.28	6.88
3201495	Drill Core	0.71	0.87	0.45	0.26	0.02	0.16	<0.01	0.01	0.17	14.14	98.52	0.03	4.31	0.94	0.79	<0.02	12.84	0.53	1.23
3201496	Drill Core	0.08	1.60	0.80	0.32	0.05	0.17	<0.01	0.01	0.05	22.13	99.22	0.02	6.96	0.84	1.08	<0.02	21.55	0.36	1.44
3201497	Drill Core	0.01	1.52	0.80	0.39	0.05	<0.01	<0.01	0.01	0.03	21.10	99.22	0.02	6.50	0.72	0.68	<0.02	21.33	0.24	1.43
3201498	Drill Core	0.04	1.58	0.93	0.33	0.05	0.04	<0.01	0.02	0.09	24.07	99.96	0.03	7.51	1.50	0.79	<0.02	24.63	0.83	2.01
3201499	Drill Core	0.09	1.34	1.24	0.40	0.07	0.04	<0.01	0.01	1.15	21.19	100.58	0.03	6.26	2.59	0.60	<0.02	20.72	1.39	3.60
3201500	Drill Core	1.51	0.13	0.53	0.14	<0.01	0.05	<0.01	<0.01	<0.01	0.83	99.45	0.03	0.06	<0.02	0.05	<0.02	<0.08	<0.05	0.11
3206501	Drill Core	<0.01	1.25	0.75	0.33	0.04	<0.01	0.02	0.10	14.97	22.75	98.76	0.02	5.91	9.26	0.51	<0.02	19.75	1.33	23.80
3206502	Drill Core	<0.01	1.25	0.74	0.36	0.04	<0.01	0.02	0.06	15.53	22.75	99.24	0.02	5.83	9.37	0.73	<0.02	18.65	1.35	24.06
3206503	Drill Core	0.10	1.00	1.15	0.30	0.05	0.05	<0.01	0.04	5.63	19.11	99.99	0.04	4.86	7.04	1.02	<0.02	14.08	3.46	10.75
3206504	Drill Core	0.04	1.29	1.09	0.51	0.07	0.02	<0.01	0.03	3.68	21.42	99.85	0.03	5.86	5.57	0.62	<0.02	19.19	2.74	8.48
3206505	Drill Core	0.07	0.65	0.95	0.23	0.05	0.03	<0.01	0.07	3.80	22.83	98.58	0.02	3.38	20.38	0.66	<0.02	9.96	17.22	9.49
3206506	Drill Core	0.13	1.18	1.58	0.29	0.05	0.04	<0.01	0.02	0.09	19.77	98.77	0.04	5.27	3.99	0.86	<0.02	16.16	3.01	2.95
3206507	Drill Core	0.30	1.20	1.66	0.05	0.04	0.11	<0.01	0.01	0.06	20.89	98.59	0.04	5.12	5.05	0.77	<0.02	15.91	4.11	2.82
3206508	Drill Core	0.15	0.71	1.08	0.49	0.05	0.05	0.01	0.02	8.98	15.40	99.60	0.04	3.81	8.05	1.07	<0.02	10.00	3.00	15.17
3206509	Drill Core	0.03	1.61	1.02	0.41	0.06	0.03	<0.01	0.05	1.42	23.74	99.55	0.03	7.29	1.85	0.59	<0.02	24.54	0.76	3.29
3206510	Drill Core	0.13	0.98	1.06	0.26	0.04	0.04	<0.01	0.01	1.77	16.12	99.08	0.04	4.80	2.65	1.05	<0.02	13.72	1.27	4.15
3206511	Drill Core	0.20	0.80	1.08	0.24	0.05	0.08	<0.01	0.02	9.77	19.09	99.52	0.04	4.20	10.84	0.87	<0.02	12.15	4.96	17.66
3206512	Drill Core	0.36	0.59	1.82	0.48	0.08	0.17	<0.01	0.02	6.95	12.97	99.61	0.06	3.04	5.10	0.61	<0.02	8.87	1.28	11.46
3206513	Drill Core	0.15	0.88	1.72	0.22	0.05	0.08	<0.01	0.02	0.67	16.32	98.25	0.06	4.16	2.97	0.89	<0.02	11.94	2.11	2.57



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	Method Analyte Unit MDL	WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
3206514	Drill Core	2.36	5.2	75.6	172.7	37146	4.2	382.9	45.0	9766	25.65	433	3.4	0.9	200	111.3	50.3	<0.5	169	0.61	0.155
3206515	Drill Core	1.56	18.8	90.1	241.3	82391	6.9	291.2	43.3	1897	7.70	343	7.6	1.0	171	264.1	53.3	<0.5	72	0.43	0.184
3206516	Drill Core	2.56	10.1	230.7	786.7	164034	29.4	814.2	104.3	665	18.68	1408	4.7	1.1	137	464.9	228.2	<0.5	56	0.35	0.146
3206517	Drill Core	2.34	4.3	218.9	629.0	>200000	23.9	397.7	59.4	668	12.94	739	2.6	1.3	140	658.8	92.8	<0.5	29	0.42	0.183
3206518	Drill Core	1.91	3.4	252.8	340.4	187158	22.2	424.9	56.4	5338	19.16	598	2.4	0.8	72	631.7	87.2	<0.5	86	0.30	0.076
3206519	Drill Core	1.47	6.6	65.3	453.3	50369	5.3	289.8	47.3	6737	19.72	284	4.0	0.9	161	153.8	35.7	<0.5	99	0.61	0.188
3206520	Rock Pulp	0.04	3.9	461.9	37032.5	49676	57.0	16.1	44.3	2212	7.42	150	1.5	5.4	20	169.8	38.9	<0.5	11	5.02	0.052
3206521	Drill Core	1.54	8.4	251.6	470.1	154125	16.1	442.4	76.6	4346	19.18	717	4.7	0.9	160	506.1	82.2	<0.5	96	0.56	0.222
3206522	Drill Core	1.53	9.8	186.6	401.9	148049	14.0	409.6	73.8	3807	16.86	645	4.8	1.1	156	501.6	83.5	<0.5	95	0.52	0.191
3206523	Drill Core	1.48	0.8	39.9	46.7	10927	4.0	148.8	43.0	10574	27.19	105	0.8	<0.5	143	40.1	23.2	<0.5	129	0.42	0.058
3206524	Drill Core	1.71	1.3	16.3	65.4	5346	0.9	94.1	24.0	14178	31.67	91	0.6	<0.5	119	17.3	9.3	<0.5	151	0.48	0.045
3206525	Drill Core	1.61	8.0	83.0	118.7	24344	3.4	309.5	34.5	10770	26.50	298	26.3	0.9	175	116.1	32.2	<0.5	300	0.64	0.243
3206526	Drill Core	1.58	1.1	27.7	76.3	18582	2.3	298.9	36.8	12908	31.56	306	1.6	0.7	141	53.7	17.4	<0.5	137	0.69	0.144
3206527	Drill Core	1.78	9.1	59.9	129.8	49825	4.4	386.6	56.0	6448	19.83	334	4.0	0.9	154	168.0	39.9	<0.5	121	0.68	0.219
3206528	Drill Core	2.07	1.5	94.5	231.8	56756	7.7	239.2	37.3	11653	29.24	158	1.7	1.0	155	180.6	33.1	<0.5	140	0.65	0.160
3206529	Drill Core	2.56	<0.5	46.2	272.3	17896	9.0	350.0	49.6	11749	34.43	407	0.9	1.2	114	65.9	42.5	<0.5	118	0.53	0.101
3206530	Drill Core	2.95	2.1	117.8	224.0	91405	9.8	355.2	41.5	5655	25.31	550	1.2	<0.5	88	402.3	69.2	<0.5	75	0.34	0.091
3206531	Drill Core	1.70	3.3	35.5	36.8	16727	2.3	93.8	7.9	2224	6.30	92	1.2	<0.5	28	98.5	23.2	<0.5	41	0.11	0.029
3206532	Drill Core	1.54	2.5	52.4	112.9	19137	2.8	89.8	7.0	695	2.84	90	1.5	<0.5	44	103.0	22.9	<0.5	27	0.09	0.042
3206533	Drill Core	1.45	1.9	22.8	40.4	882	0.8	95.0	5.3	3549	9.01	71	2.8	<0.5	39	5.6	16.2	<0.5	53	0.13	0.037
3206534	Drill Core	1.40	2.2	17.3	53.1	3256	1.1	77.3	4.8	3730	9.43	60	<0.5	<0.5	32	11.2	15.8	<0.5	40	0.16	0.025
3206535	Drill Core	1.75	2.5	16.4	113.2	3431	1.3	123.0	7.5	2760	8.14	96	1.1	<0.5	30	11.3	17.7	<0.5	41	0.13	0.031
3206536	Drill Core	1.99	1.2	223.5	410.7	128845	22.9	93.7	7.4	2618	9.02	132	0.8	<0.5	22	482.1	48.2	<0.5	36	0.09	0.018
3206537	Drill Core	2.04	<0.5	463.3	833.8	>200000	60.6	72.9	7.1	622	4.67	160	0.5	<0.5	17	1743.6	129.1	<0.5	19	0.04	0.030
3206538	Drill Core	2.67	1.4	264.1	1122.0	>200000	36.2	162.7	19.5	3791	13.75	218	0.7	<0.5	23	834.0	101.2	<0.5	67	0.13	0.017
3206539	Drill Core	2.01	1.7	126.2	121.0	49237	5.5	75.4	6.4	3445	9.61	88	2.0	<0.5	20	169.6	20.2	<0.5	48	0.12	0.025
3206540	Rock	1.09	1.1	58.6	3.7	184	<0.5	5.4	11.8	497	3.11	<5	0.9	2.5	96	<0.5	<0.5	<0.5	108	1.19	0.073
3206541	Drill Core	1.90	3.3	116.3	184.3	53222	8.9	91.6	8.2	3421	9.34	105	1.9	<0.5	33	186.7	24.8	<0.5	51	0.14	0.035
3206542	Drill Core	1.90	1.9	144.0	210.6	62215	9.0	88.4	8.4	4073	11.21	112	1.8	<0.5	33	220.8	30.2	<0.5	53	0.15	0.031
3206543	Drill Core	2.27	2.8	37.4	259.9	7712	4.8	243.6	42.0	5557	29.05	448	1.6	<0.5	95	38.3	57.0	<0.5	138	0.22	0.037



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Method Analyte Unit MDL		AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01	0.01
3206514	Drill Core	1.1	235.2	0.60	200	0.003	0.58	<0.01	0.01	<0.5	49.65	20.2	0.6	4.02	5	2	25.48	5.06	38.57	0.88	1.02
3206515	Drill Core	1.1	69.0	0.15	97	0.002	0.52	<0.01	0.03	<0.5	95.98	5.5	0.7	7.02	5	6	54.83	9.86	10.75	0.61	0.27
3206516	Drill Core	1.1	109.4	0.07	67	0.004	0.44	<0.01	0.02	<0.5	204.15	3.0	4.9	26.48	7	7	24.33	6.56	26.80	0.50	0.13
3206517	Drill Core	1.1	79.0	0.08	47	0.009	0.39	<0.01	0.01	<0.5	229.08	3.7	1.4	21.45	10	7	31.18	6.14	17.69	0.57	0.14
3206518	Drill Core	0.8	157.8	0.39	35	0.013	1.08	<0.01	0.01	<0.5	222.74	13.0	1.6	14.53	15	5	21.84	6.23	27.94	0.44	0.67
3206519	Drill Core	1.3	188.8	0.44	74	0.008	0.98	<0.01	<0.01	<0.5	60.16	12.4	0.6	5.06	6	3	37.26	6.87	28.81	0.89	0.79
3206520	Rock Pulp	19.0	14.6	2.66	224	0.015	1.00	0.01	0.66	0.5	1.87	2.9	44.7	7.88	<5	<2	37.99	7.64	10.86	6.85	4.87
3206521	Drill Core	2.3	207.8	0.34	50	0.008	1.19	<0.01	<0.01	<0.5	182.28	9.2	2.3	14.90	11	7	23.50	7.57	27.41	0.80	0.57
3206522	Drill Core	1.2	201.1	0.34	58	0.012	1.32	<0.01	0.01	<0.5	171.40	8.5	2.3	13.24	12	5	31.00	8.19	23.86	0.72	0.56
3206523	Drill Core	<0.5	107.7	0.54	133	0.005	1.23	0.02	0.03	<0.5	14.05	24.6	0.7	3.39	<5	<2	15.54	13.70	41.00	0.59	0.94
3206524	Drill Core	0.7	93.9	0.75	57	0.004	0.61	0.02	0.02	<0.5	7.08	25.1	<0.5	0.82	<5	<2	10.61	9.33	47.86	0.70	1.32
3206525	Drill Core	2.7	315.0	0.59	2329	0.020	3.15	0.01	<0.01	<0.5	26.20	19.8	<0.5	2.41	8	<2	19.89	9.01	39.49	0.92	1.05
3206526	Drill Core	1.6	308.1	0.78	428	0.019	1.74	<0.01	<0.01	<0.5	22.01	16.9	<0.5	1.73	8	<2	16.25	4.97	46.89	0.98	1.33
3206527	Drill Core	1.0	263.4	0.46	78	0.008	1.29	<0.01	0.02	<0.5	55.70	10.7	0.7	5.73	7	2	36.08	7.75	28.28	0.95	0.80
3206528	Drill Core	2.1	334.6	0.76	31	0.032	1.77	<0.01	<0.01	<0.5	65.02	19.1	0.7	4.93	9	<2	16.61	5.06	43.50	0.91	1.28
3206529	Drill Core	2.0	310.2	0.71	15	0.014	1.54	<0.01	<0.01	<0.5	21.43	15.2	1.1	7.45	7	6	13.87	3.77	51.00	0.77	1.20
3206530	Drill Core	<0.5	217.6	0.37	44	0.006	0.96	<0.01	<0.01	<0.5	87.30	10.1	4.1	16.54	10	<2	25.31	4.73	35.60	0.48	0.68
3206531	Drill Core	<0.5	19.3	0.14	45	<0.001	0.16	<0.01	0.02	<0.5	18.45	4.4	<0.5	1.69	<5	<2	79.48	3.05	9.09	0.16	0.26
3206532	Drill Core	0.7	10.5	0.05	66	<0.001	0.24	<0.01	0.03	<0.5	20.01	2.4	0.7	1.96	<5	<2	84.65	3.80	4.34	0.15	0.11
3206533	Drill Core	<0.5	18.3	0.18	39	<0.001	0.30	<0.01	0.02	<0.5	0.75	5.2	<0.5	0.65	<5	<2	75.63	2.86	13.12	0.19	0.37
3206534	Drill Core	<0.5	12.8	0.20	53	<0.001	0.19	<0.01	0.03	<0.5	2.58	4.7	0.6	0.91	<5	<2	73.04	3.26	13.53	0.23	0.41
3206535	Drill Core	<0.5	17.7	0.18	42	<0.001	0.22	<0.01	0.02	<0.5	2.77	4.5	<0.5	1.48	<5	<2	76.86	2.82	11.70	0.20	0.33
3206536	Drill Core	<0.5	19.5	0.21	33	<0.001	0.28	<0.01	0.02	<0.5	120.34	5.4	0.8	8.10	7	2	59.66	1.59	12.27	0.14	0.34
3206537	Drill Core	<0.5	7.4	0.06	21	<0.001	0.22	<0.01	<0.01	<0.5	394.73	0.5	2.7	23.85	21	6	22.78	0.83	6.11	0.07	0.09
3206538	Drill Core	<0.5	49.6	0.30	27	0.006	0.90	<0.01	<0.01	<0.5	196.02	9.3	2.2	14.54	14	6	32.21	3.83	19.33	0.19	0.53
3206539	Drill Core	<0.5	22.4	0.19	25	0.001	0.31	<0.01	0.01	<0.5	42.36	4.6	<0.5	3.94	<5	<2	68.38	2.07	13.69	0.19	0.37
3206540	Rock	7.2	6.3	0.88	207	0.204	2.11	0.30	0.35	<0.5	0.06	4.2	<0.5	<0.05	6	<2	60.99	17.19	6.41	6.34	2.92
3206541	Drill Core	0.9	27.3	0.19	44	0.001	0.31	<0.01	0.02	<0.5	40.47	5.5	<0.5	4.09	<5	<2	66.84	3.28	13.52	0.22	0.36
3206542	Drill Core	<0.5	32.1	0.23	289	0.001	0.30	<0.01	0.01	<0.5	49.03	6.2	<0.5	4.92	<5	<2	61.95	2.76	15.96	0.22	0.42
3206543	Drill Core	<0.5	106.9	0.40	44	0.013	1.89	0.02	0.02	<0.5	5.98	15.8	2.3	16.96	<5	<2	18.70	11.21	42.83	0.32	0.68



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Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008	LF726
Analyte	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	V2O5	TOT/C	TOT/S	C/ORG	C/GRA	CO2	S/S-	SO4	Zn
Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
MDL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05	0.1
3206514 Drill Core	0.12	1.24	1.02	0.37	0.06	0.06	<0.01	0.02	3.73	20.92	99.54	0.04	6.17	3.92	0.79	<0.02	19.69	1.50	7.26	
3206515 Drill Core	0.39	0.24	1.39	0.42	0.06	0.15	<0.01	0.03	7.99	9.47	98.62	0.07	2.03	6.93	1.22	0.03	2.87	2.70	12.69	
3206516 Drill Core	0.19	0.09	1.61	0.38	0.08	0.07	0.02	0.09	16.20	17.92	99.17	0.04	0.57	25.93	0.30	<0.02	0.93	17.92	24.02	
3206517 Drill Core	0.14	0.10	1.40	0.41	0.05	0.04	0.01	0.05	20.73	14.40	98.38	0.03	0.59	21.91	0.24	<0.02	1.23	11.51	31.20	
3206518 Drill Core	0.07	0.65	1.17	0.19	0.04	0.01	0.02	0.05	18.86	17.77	100.75	0.03	3.13	14.28	0.60	<0.02	9.27	4.96	27.96	
3206519 Drill Core	0.14	0.82	1.28	0.45	0.06	0.05	<0.01	0.05	4.95	15.74	99.51	0.04	4.03	4.84	0.87	<0.02	11.57	1.91	8.79	
3206520 Rock Pulp	3.54	0.29	0.23	0.12	<0.01	0.09	0.04	3.48	4.96	14.55	97.24	<0.01	3.24	7.76	1.11	<0.02	7.78	3.81	11.85	
3206521 Drill Core	0.12	0.53	1.33	0.49	0.06	0.03	0.02	0.05	15.19	17.45	99.03	0.04	2.81	15.95	0.82	<0.02	7.26	7.60	25.06	
3206522 Drill Core	0.12	0.46	1.56	0.48	0.07	0.04	0.01	0.05	14.56	15.03	100.46	0.04	2.38	13.33	0.68	<0.02	6.18	5.80	22.60	
3206523 Drill Core	0.43	1.28	1.29	0.13	0.03	0.16	<0.01	<0.01	1.08	22.53	99.33	0.04	6.05	3.18	1.13	<0.02	18.00	1.89	3.85	
3206524 Drill Core	0.19	1.73	0.99	0.10	0.02	0.07	<0.01	0.01	0.53	25.86	99.68	0.04	7.89	0.68	1.22	<0.02	24.46	<0.05	2.06	
3206525 Drill Core	0.05	1.32	1.00	0.60	0.06	0.69	<0.01	0.02	2.36	22.15	99.39	0.06	5.97	2.50	1.25	<0.02	17.32	0.65	5.57	
3206526 Drill Core	0.03	1.56	0.96	0.35	0.06	0.04	<0.01	0.01	1.78	23.16	98.87	0.03	7.20	1.71	0.90	<0.02	23.09	0.22	4.45	
3206527 Drill Core	0.20	0.76	1.58	0.56	0.08	0.08	<0.01	0.01	4.86	15.75	99.06	0.04	4.08	5.72	1.28	<0.02	10.23	2.67	9.16	
3206528 Drill Core	0.04	1.40	1.10	0.40	0.07	0.01	<0.01	0.02	5.60	22.06	99.54	0.03	6.30	5.01	0.82	<0.02	20.10	1.67	10.04	
3206529 Drill Core	<0.01	1.41	0.84	0.26	0.06	<0.01	<0.01	0.03	1.73	24.53	100.00	0.03	6.49	7.21	0.86	<0.02	20.65	4.71	7.49	
3206530 Drill Core	0.09	0.65	1.03	0.23	0.06	0.04	<0.01	0.03	8.75	19.73	99.72	0.02	3.24	16.40	0.68	<0.02	9.38	11.07	15.98	
3206531 Drill Core	0.23	0.30	0.17	0.07	0.01	0.06	<0.01	<0.01	1.67	5.45	100.43	0.03	1.62	1.64	0.55	<0.02	3.85	0.82	2.46	
3206532 Drill Core	0.30	0.10	0.16	0.11	0.01	0.05	<0.01	<0.01	1.89	3.18	99.38	0.02	0.83	1.63	0.49	0.04	1.09	0.75	2.66	
3206533 Drill Core	0.21	0.43	0.08	0.08	<0.01	0.03	<0.01	<0.01	0.09	7.15	100.32	0.02	2.22	0.58	0.62	<0.02	5.80	0.27	0.92	
3206534 Drill Core	0.33	0.44	0.18	0.06	<0.01	0.07	<0.01	0.01	0.32	7.36	99.40	0.02	2.36	0.86	0.62	0.02	6.30	0.46	1.22	
3206535 Drill Core	0.23	0.35	0.12	0.07	0.02	0.05	<0.01	<0.01	0.34	6.28	99.49	0.02	1.90	1.47	0.50	0.02	5.04	1.00	1.39	
3206536 Drill Core	0.15	0.33	0.09	0.04	<0.01	0.03	0.01	0.04	12.39	8.80	99.00	<0.01	1.66	8.02	0.29	<0.02	5.01	2.07	17.84	
3206537 Drill Core	0.06	0.08	0.06	0.04	<0.01	<0.01	0.04	0.09	>24	13.11	100.50	<0.01	0.45	25.19	0.20	<0.02	0.95	15.44	29.25	45.7
3206538 Drill Core	0.10	0.46	0.42	0.05	0.01	<0.01	0.02	0.11	23.29	14.45	100.92	0.02	2.25	15.02	0.51	<0.02	6.38	4.23	32.37	
3206539 Drill Core	0.17	0.40	0.13	0.06	0.01	0.02	<0.01	0.02	4.87	8.15	99.80	<0.01	2.02	3.87	0.45	<0.02	5.73	1.35	7.55	
3206540 Rock	1.52	0.12	0.53	0.14	<0.01	0.05	<0.01	<0.01	0.01	0.90	100.54	0.03	<0.02	<0.02	<0.02	<0.02	<0.08	<0.05	0.18	
3206541 Drill Core	0.20	0.41	0.23	0.09	0.01	0.03	<0.01	0.02	5.31	8.44	100.33	0.02	2.12	4.17	0.57	<0.02	5.67	1.60	7.73	
3206542 Drill Core	0.17	0.49	0.21	0.08	0.01	0.05	<0.01	0.03	6.13	9.75	99.80	0.02	2.43	4.84	0.56	<0.02	6.83	1.77	9.19	
3206543 Drill Core	0.18	0.66	1.25	0.09	0.02	0.05	<0.01	0.02	0.74	22.06	99.22	0.05	3.30	17.60	0.85	<0.02	8.96	16.31	3.86	





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Project:

MacMillan Pass

Report Date:

October 12, 2019

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# CERTIFICATE OF ANALYSIS

WHI19000554.1

	Method	Analyte	Unit	MDL	WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270			
					Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
					kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
3206544	Drill Core																							
3206545	Drill Core																							
3206546	Drill Core																							
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3206559	Drill Core																							
3206560	Rock Pulp																							
3206561	Drill Core																							
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3206570	Drill Core																							
3206571	Drill Core																							
3206572	Drill Core																							
3206573	Drill Core																							





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# CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL		AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01	0.01
3206544	Drill Core	<0.5	54.7	0.14	143	0.002	1.34	0.01	0.02	<0.5	89.18	8.5	2.1	18.13	8	<2	38.48	7.20	22.99	0.14	0.21
3206545	Drill Core	<0.5	36.0	0.09	477	0.002	1.07	<0.01	<0.01	<0.5	152.67	5.5	0.9	12.22	13	5	53.41	2.54	7.93	0.10	0.16
3206546	Drill Core	<0.5	56.4	0.03	340	0.002	1.43	<0.01	<0.01	<0.5	130.75	5.2	1.4	10.91	11	4	54.56	3.42	4.41	0.11	0.06
3206547	Drill Core	0.7	54.4	0.20	2327	0.002	0.38	<0.01	0.03	<0.5	35.82	6.1	0.5	3.33	<5	<2	66.64	5.35	12.51	0.31	0.38
3206548	Drill Core	1.0	13.3	0.12	66	0.001	0.18	<0.01	0.04	<0.5	10.34	3.5	<0.5	1.12	<5	<2	80.25	5.02	6.46	0.21	0.24
3206549	Drill Core	0.9	29.1	0.07	69	0.001	0.49	<0.01	0.04	<0.5	18.47	3.5	0.5	1.58	<5	2	80.54	5.68	4.73	0.21	0.18
3206550	Drill Core	1.2	289.4	0.40	54	0.020	1.18	<0.01	<0.01	<0.5	173.12	10.6	1.3	10.37	12	3	23.43	4.46	29.53	0.61	0.67
3206551	Drill Core	2.8	219.8	0.45	119	0.011	0.89	0.02	0.03	<0.5	61.70	16.2	0.9	7.83	5	<2	15.93	6.61	41.91	0.91	0.85
3206552	Drill Core	<0.5	90.3	0.08	83	0.002	0.47	<0.01	0.04	<0.5	54.96	3.6	0.8	3.78	10	8	72.73	3.88	7.37	0.28	0.18
3206553	Drill Core	<0.5	18.8	0.03	319	0.002	0.26	<0.01	0.04	<0.5	52.01	1.4	0.6	3.82	10	8	77.99	3.38	4.78	0.43	0.11
3206554	Drill Core	0.6	56.0	0.04	58	0.003	0.27	<0.01	0.02	<0.5	39.86	2.4	<0.5	2.51	7	4	79.72	3.92	4.52	0.63	0.10
3206555	Drill Core	1.0	313.7	0.39	100	0.010	1.14	<0.01	<0.01	<0.5	144.65	15.0	<0.5	8.24	20	<2	16.41	5.04	36.89	0.80	0.77
3206556	Drill Core	2.0	332.9	0.44	97	0.017	1.54	<0.01	0.01	<0.5	94.82	17.0	0.7	7.87	18	<2	12.11	5.93	42.98	0.86	0.86
3206557	Drill Core	1.2	238.6	0.36	51	0.004	0.83	<0.01	<0.01	<0.5	33.62	11.9	<0.5	3.38	<5	2	28.12	5.58	37.05	0.91	0.79
3206558	Drill Core	1.2	279.8	0.38	41	0.003	0.88	<0.01	<0.01	<0.5	59.05	11.8	0.5	3.83	14	<2	27.90	5.27	36.41	0.68	0.78
3206559	Drill Core	1.4	239.8	0.23	61	0.006	1.14	<0.01	0.02	<0.5	71.96	7.2	2.3	12.04	16	5	40.76	6.44	25.03	0.76	0.46
3206560	Rock Pulp	21.5	15.5	2.64	244	0.016	1.01	0.01	0.68	<0.5	0.77	3.4	44.7	7.63	10	<2	38.59	7.66	10.96	6.97	4.96
3206561	Drill Core	0.5	22.4	0.02	84	0.001	0.30	<0.01	0.04	<0.5	10.71	1.0	0.6	1.25	<5	3	87.04	5.13	1.88	0.23	0.07
3206562	Drill Core	0.9	31.6	0.02	97	0.002	0.42	<0.01	0.05	<0.5	11.67	1.5	0.6	1.47	<5	3	85.10	5.64	2.26	0.28	0.08
3206563	Drill Core	1.0	146.7	0.19	1444	0.002	0.82	<0.01	0.02	<0.5	2.68	7.1	<0.5	2.05	<5	2	64.47	5.55	16.12	0.49	0.39
3206564	Drill Core	<0.5	17.6	0.03	138	<0.001	0.27	<0.01	0.02	<0.5	21.10	2.2	<0.5	1.88	<5	<2	87.62	2.59	2.74	0.05	0.08
3206565	Drill Core	<0.5	11.0	0.02	41	<0.001	0.17	<0.01	0.01	<0.5	68.52	1.9	<0.5	4.61	11	<2	80.45	2.63	2.29	0.08	0.05
3206566	Drill Core	<0.5	19.9	0.02	2989	<0.001	0.31	<0.01	0.01	0.6	7.19	2.5	<0.5	0.99	<5	<2	88.46	2.51	2.31	0.08	0.07
3206567	Drill Core	0.8	10.6	0.01	387	<0.001	0.20	<0.01	0.02	<0.5	10.90	1.2	<0.5	1.27	<5	<2	90.71	3.67	1.88	0.10	0.06
3206568	Drill Core	0.8	10.7	0.04	702	<0.001	0.19	<0.01	0.03	<0.5	10.41	2.9	<0.5	1.20	<5	<2	88.13	3.35	3.42	0.11	0.12
3206569	Drill Core	2.9	18.0	0.07	111	<0.001	0.29	<0.01	0.09	<0.5	0.31	4.3	0.8	1.59	<5	2	78.63	8.65	5.51	0.22	0.20
3206570	Drill Core	2.4	20.3	0.12	115	0.001	0.28	<0.01	0.08	<0.5	4.92	5.3	0.6	1.62	<5	<2	75.45	7.69	8.20	0.20	0.27
3206571	Drill Core	<0.5	11.7	0.23	27	<0.001	0.14	<0.01	0.01	<0.5	1.76	3.7	<0.5	0.40	<5	<2	73.67	2.07	14.37	0.15	0.44
3206572	Drill Core	<0.5	12.2	0.15	164	<0.001	0.17	<0.01	0.01	<0.5	32.55	3.9	<0.5	1.56	<5	<2	77.62	2.05	10.30	0.12	0.29
3206573	Drill Core	<0.5	8.5	0.12	18	<0.001	0.24	<0.01	<0.01	<0.5	586.56	3.8	6.9	20.32	28	<2	26.30	1.03	6.95	0.07	0.22



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**Project:** MacMillan Pass

**Report Date:** October 12, 2019

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# CERTIFICATE OF ANALYSIS

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Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008	LF726
Analyte	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	V2O5	TOT/C	TOT/S	C/ORG	C/GRA	CO2	S/S-	SO4	Zn
Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
MDL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05	0.1
3206544	Drill Core	0.24	0.21	0.54	0.14	0.02	0.06	0.03	0.04	10.82	15.55	99.47	0.03	1.16	18.20	0.35	<0.02	2.95	12.96	15.71
3206545	Drill Core	0.12	0.15	0.08	0.17	0.01	0.17	0.06	0.03	21.28	9.42	101.01	0.02	0.87	12.50	0.30	<0.02	2.06	4.34	24.47
3206546	Drill Core	0.13	0.06	0.08	0.33	0.02	2.81	0.05	0.15	18.92	8.21	98.43	0.02	0.37	11.32	0.19	<0.02	0.65	5.33	17.98
3206547	Drill Core	0.35	0.35	0.58	0.19	0.03	0.31	<0.01	<0.01	4.16	8.00	100.28	0.03	2.03	3.21	0.59	<0.02	5.24	0.95	6.80
3206548	Drill Core	0.48	0.18	0.32	0.13	0.01	0.07	<0.01	<0.01	0.90	4.90	99.44	0.03	1.64	1.08	0.79	0.11	2.75	0.57	1.53
3206549	Drill Core	0.47	0.12	0.41	0.19	0.02	0.07	<0.01	<0.01	1.75	4.73	99.59	0.04	1.73	1.59	1.19	0.10	1.60	0.83	2.30
3206550	Drill Core	0.12	0.88	1.12	0.31	0.07	0.03	0.02	0.03	16.25	18.24	99.92	0.03	4.21	10.68	0.72	<0.02	12.78	2.38	24.90
3206551	Drill Core	0.46	1.26	1.31	0.43	0.07	0.12	<0.01	0.02	5.87	22.70	100.07	0.05	5.94	7.79	0.94	<0.02	18.32	4.01	11.36
3206552	Drill Core	0.42	0.19	0.53	0.19	0.03	0.08	<0.01	0.02	5.59	7.14	100.08	0.09	2.98	4.20	2.25	0.11	2.29	1.63	7.72
3206553	Drill Core	0.33	0.08	0.27	0.32	0.02	0.07	<0.01	0.01	5.02	5.81	99.92	0.06	2.42	4.27	2.08	0.06	1.04	2.01	6.77
3206554	Drill Core	0.28	0.10	0.39	0.47	0.03	0.04	<0.01	<0.01	3.65	4.99	99.82	0.05	2.39	2.87	1.99	0.08	1.20	1.29	4.73
3206555	Drill Core	0.08	1.12	1.15	0.39	0.06	0.02	<0.01	0.17	12.66	20.82	99.70	0.04	5.59	9.26	0.96	<0.02	16.94	2.83	19.30
3206556	Drill Core	0.22	1.20	1.33	0.38	0.07	0.06	<0.01	0.05	8.79	22.56	99.73	0.04	6.12	8.95	1.25	<0.02	17.83	3.87	15.25
3206557	Drill Core	0.13	1.21	1.10	0.42	0.07	0.03	<0.01	0.08	3.35	19.61	99.38	0.03	5.98	3.79	0.97	<0.02	18.36	1.52	6.81
3206558	Drill Core	0.15	1.20	0.95	0.26	0.06	0.02	<0.01	0.05	5.75	19.27	100.27	0.03	5.84	4.37	0.98	<0.02	17.78	1.22	9.46
3206559	Drill Core	0.28	0.41	1.34	0.53	0.07	0.06	<0.01	0.04	7.07	14.51	99.61	0.05	2.68	12.97	1.14	<0.02	5.59	8.96	12.03
3206560	Rock Pulp	3.63	0.29	0.23	0.12	<0.01	0.09	0.04	3.60	5.05	16.49	100.41	<0.01	3.35	8.45	0.54	<0.02	10.30	4.71	11.23
3206561	Drill Core	0.50	0.03	0.39	0.20	0.02	0.08	<0.01	<0.01	1.12	3.28	100.32	0.06	1.56	1.42	1.46	0.06	0.16	1.10	0.95
3206562	Drill Core	0.51	0.03	0.44	0.26	0.02	0.08	<0.01	0.01	1.27	3.59	99.94	0.07	1.66	1.67	1.57	0.04	0.16	1.31	1.07
3206563	Drill Core	0.34	0.45	0.68	0.40	0.05	0.42	<0.01	0.02	0.30	9.80	99.66	0.06	2.99	2.36	1.18	0.04	6.49	1.70	1.98
3206564	Drill Core	0.20	0.06	0.08	0.10	<0.01	0.04	<0.01	<0.01	2.72	2.43	99.44	<0.01	0.38	2.04	0.16	<0.02	0.80	0.76	3.85
3206565	Drill Core	0.19	0.03	0.17	0.07	<0.01	0.01	<0.01	<0.01	8.37	3.37	99.87	<0.01	0.27	5.13	0.15	<0.02	0.44	2.56	7.69
3206566	Drill Core	0.19	0.05	0.08	0.13	<0.01	0.37	<0.01	<0.01	0.74	2.08	97.35	0.01	0.36	1.11	0.18	<0.02	0.61	0.63	1.46
3206567	Drill Core	0.34	0.03	0.18	0.09	<0.01	0.07	<0.01	0.01	1.39	2.01	100.94	0.02	0.38	1.44	0.29	<0.02	0.29	0.73	2.13
3206568	Drill Core	0.29	0.09	0.18	0.09	<0.01	0.11	<0.01	<0.01	1.41	2.54	100.22	<0.01	0.60	1.36	0.30	<0.02	1.08	0.64	2.16
3206569	Drill Core	0.97	0.12	0.46	0.15	0.01	0.13	<0.01	0.01	0.01	4.80	100.01	0.04	1.35	1.73	0.85	0.04	1.68	1.57	0.48
3206570	Drill Core	0.85	0.22	0.46	0.11	0.02	0.11	<0.01	0.01	0.65	6.02	100.52	0.04	1.68	1.81	0.77	0.03	3.25	1.31	1.49
3206571	Drill Core	0.19	0.46	0.08	0.04	<0.01	0.03	<0.01	0.01	0.18	7.50	99.28	0.01	2.51	0.43	0.45	<0.02	7.52	0.09	1.02
3206572	Drill Core	0.17	0.31	0.08	0.05	<0.01	0.04	<0.01	0.02	2.41	5.79	99.87	<0.01	1.71	1.79	0.22	0.16	4.89	0.45	4.01
3206573	Drill Core	0.07	0.14	0.02	0.08	<0.01	<0.01	0.02	0.91	>24	13.03	100.80	<0.01	0.82	22.43	0.18	<0.02	2.34	14.63	23.41



**BUREAU VERITAS** MINERAL LABORATORIES  
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Project:

MacMillan Pass

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	Method Analyte Unit MDL	WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
3206574	Drill Core	2.49	0.8	33.8	71.9	25605	2.3	69.8	5.3	552	2.54	80	0.6	<0.5	41	55.8	16.4	<0.5	14	0.07	0.026
3206575	Drill Core	2.11	1.8	26.4	189.0	123	1.8	48.4	9.5	2043	5.59	47	0.7	1.4	81	3.0	19.9	<0.5	51	0.13	0.047
3206576	Drill Core	2.14	1.8	58.3	722.4	46797	3.9	36.3	7.0	1485	5.55	37	0.6	0.5	36	180.9	21.0	<0.5	42	0.07	0.022
3206577	Drill Core	2.19	2.0	36.7	79.3	1647	1.2	36.0	8.9	2326	6.75	30	0.7	1.6	73	9.7	22.2	<0.5	55	0.13	0.046
3206578	Drill Core	1.82	2.7	21.7	46.8	109	<0.5	40.5	9.3	2037	5.85	30	0.8	1.9	119	2.5	13.8	<0.5	60	0.20	0.089
3206579	Drill Core	1.70	1.9	50.9	70.0	18067	2.5	51.2	9.5	2429	8.35	37	0.8	0.6	51	87.3	23.7	<0.5	52	0.13	0.046
3206580	Rock	1.15	5.8	54.3	2.8	55	<0.5	3.9	9.4	423	3.04	<5	0.9	2.9	98	<0.5	<0.5	<0.5	108	1.14	0.066
3206581	Drill Core	2.02	3.4	27.7	59.4	1267	1.4	48.6	9.2	1054	4.13	48	0.9	1.6	95	11.9	26.8	<0.5	58	0.19	0.084
3206582	Drill Core	1.96	4.1	23.6	57.3	1070	1.2	50.3	9.4	1307	4.77	44	1.1	1.7	104	12.3	28.0	<0.5	70	0.20	0.096
3206583	Drill Core	1.96	3.7	22.5	98.4	381	1.3	52.3	11.1	1271	4.80	49	0.9	2.0	111	3.9	30.0	<0.5	58	0.24	0.110
3206584	Drill Core	1.97	4.0	109.1	205.5	12519	2.4	54.6	9.7	1028	3.96	41	1.6	2.1	110	87.6	35.0	<0.5	71	0.21	0.095
3206585	Drill Core	2.13	2.8	16.9	52.4	1104	0.7	40.9	11.4	930	3.51	44	0.9	2.4	151	8.8	18.4	<0.5	38	0.27	0.124
3206586	Drill Core	2.09	1.7	110.3	149.9	21192	2.6	50.0	13.4	1803	8.01	118	0.5	1.3	84	135.0	31.4	<0.5	47	0.17	0.066
3206587	Drill Core	1.47	2.7	13.9	65.4	69	0.5	40.1	9.7	1536	4.49	52	0.6	2.0	133	<0.5	11.5	<0.5	37	0.23	0.101
3206588	Drill Core	2.00	1.4	18.5	70.5	1035	0.7	34.8	8.2	3064	9.04	38	<0.5	1.4	99	8.0	12.3	<0.5	58	0.21	0.073
3206589	Drill Core	2.18	2.0	13.9	87.0	602	0.7	37.4	11.1	2210	6.70	47	0.6	1.7	116	4.9	12.4	<0.5	55	0.20	0.071
3206590	Drill Core	2.02	2.9	14.0	72.0	1255	0.5	57.0	11.4	3435	10.07	50	2.0	1.6	111	9.6	10.6	<0.5	107	0.25	0.082
3206591	Drill Core	1.95	2.0	72.3	134.5	13779	1.6	52.1	12.6	1772	5.89	65	1.4	1.3	108	97.3	20.5	<0.5	63	0.23	0.102
3206592	Drill Core	1.86	2.0	23.2	69.9	2496	0.9	54.1	13.6	2325	7.71	72	0.8	1.6	111	21.8	15.7	<0.5	59	0.24	0.087
3206593	Drill Core	2.33	2.0	24.0	86.5	2031	0.7	65.6	13.6	2083	7.10	81	1.9	1.3	103	15.0	12.7	<0.5	84	0.23	0.099
3206594	Drill Core	2.05	2.0	14.7	83.4	1249	0.6	81.4	15.9	3710	11.76	84	1.6	1.2	93	7.3	17.7	<0.5	104	0.22	0.070
3206595	Drill Core	2.40	2.1	145.4	478.6	28139	5.9	90.3	10.2	1936	7.18	107	3.2	0.8	119	238.0	88.0	<0.5	91	0.46	0.209
3206596	Drill Core	1.96	0.5	26.9	92.8	873	0.6	28.6	3.4	1403	5.00	22	0.9	<0.5	27	4.4	46.0	<0.5	34	0.13	0.048
3206597	Drill Core	2.39	0.8	25.8	88.8	1133	0.9	28.9	3.5	2449	8.66	28	0.6	<0.5	27	4.8	43.8	<0.5	45	0.19	0.060
3206598	Drill Core	1.85	0.8	73.9	216.6	5932	2.1	35.4	4.1	2089	7.57	61	0.6	<0.5	28	22.5	114.9	<0.5	43	0.15	0.057
3206599	Drill Core	1.58	2.0	12.0	98.2	664	1.1	40.0	5.8	1328	4.99	37	0.6	0.6	43	2.5	26.1	<0.5	39	0.17	0.072
3206600	Rock Pulp	0.04	2.5	225.9	17575.4	30541	34.2	26.9	20.7	1813	5.38	84	1.5	6.6	23	96.4	46.6	0.5	15	5.17	0.053
3206601	Drill Core	2.04	2.2	10.7	120.1	270	1.1	43.3	7.5	1264	5.00	82	0.6	0.8	50	0.9	26.8	<0.5	55	0.14	0.055
3206602	Drill Core	1.98	1.9	8.8	110.6	268	1.0	41.5	7.7	1086	4.28	85	0.5	0.8	47	1.0	25.2	<0.5	49	0.13	0.048
3206603	Drill Core	1.94	1.4	63.0	232.3	31536	4.6	29.9	6.6	3039	10.63	32	0.6	0.5	43	87.7	25.9	<0.5	69	0.15	0.045



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Method Analyte Unit MDL		AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01	0.01
3206574	Drill Core	<0.5	6.0	0.05	35	<0.001	0.16	<0.01	0.02	<0.5	32.45	1.4	<0.5	1.79	<5	<2	85.83	3.36	3.69	0.10	0.11
3206575	Drill Core	2.8	17.6	0.12	109	0.001	0.26	<0.01	0.09	<0.5	0.99	6.5	<0.5	1.15	<5	<2	75.62	7.90	8.00	0.19	0.25
3206576	Drill Core	0.8	13.7	0.11	69	<0.001	0.18	<0.01	0.03	<0.5	42.18	3.9	<0.5	3.37	10	<2	75.35	3.62	7.90	0.11	0.25
3206577	Drill Core	2.8	19.0	0.18	140	0.001	0.33	<0.01	0.09	<0.5	2.19	4.6	<0.5	0.82	<5	<2	72.66	8.06	9.74	0.19	0.35
3206578	Drill Core	3.2	17.8	0.16	158	0.001	0.36	<0.01	0.11	<0.5	0.55	5.7	0.5	0.82	<5	<2	72.04	9.86	8.63	0.30	0.35
3206579	Drill Core	0.9	14.7	0.19	77	<0.001	0.26	<0.01	0.03	<0.5	16.97	6.2	<0.5	1.86	<5	<2	72.90	3.95	12.18	0.20	0.41
3206580	Rock	7.1	5.4	0.88	185	0.189	2.06	0.30	0.34	<0.5	0.23	5.1	<0.5	<0.05	6	<2	60.96	17.09	6.33	6.37	2.92
3206581	Drill Core	3.3	16.0	0.09	114	0.001	0.43	<0.01	0.08	<0.5	1.23	3.7	0.8	1.09	<5	<2	77.23	8.63	6.04	0.29	0.24
3206582	Drill Core	3.3	19.0	0.11	109	0.001	0.48	<0.01	0.08	<0.5	1.13	4.5	0.7	1.03	<5	<2	75.32	9.00	7.04	0.29	0.28
3206583	Drill Core	4.0	17.6	0.11	138	0.001	0.41	<0.01	0.09	<0.5	0.63	4.3	0.6	1.24	<5	<2	75.34	9.12	7.12	0.36	0.28
3206584	Drill Core	3.9	19.0	0.09	126	0.001	0.61	<0.01	0.09	<0.5	9.85	3.6	0.6	1.45	<5	<2	74.35	9.93	5.91	0.32	0.24
3206585	Drill Core	4.8	13.2	0.10	810	0.001	0.43	<0.01	0.11	<0.5	1.16	3.5	0.6	0.77	<5	<2	75.48	10.58	5.24	0.41	0.26
3206586	Drill Core	2.3	20.0	0.20	846	0.001	0.53	<0.01	0.07	<0.5	17.07	4.8	0.5	3.52	<5	<2	67.74	7.54	11.76	0.25	0.40
3206587	Drill Core	3.6	13.8	0.15	370	0.003	0.29	<0.01	0.08	<0.5	0.17	4.3	<0.5	0.46	<5	<2	72.95	10.40	6.83	0.36	0.31
3206588	Drill Core	2.2	19.4	0.30	94	0.001	0.31	<0.01	0.07	<0.5	0.82	6.5	<0.5	0.42	<5	<2	67.01	7.60	13.50	0.31	0.58
3206589	Drill Core	2.8	17.7	0.23	94	0.001	0.29	<0.01	0.08	<0.5	0.51	5.6	<0.5	0.40	<5	<2	69.69	9.57	9.99	0.32	0.45
3206590	Drill Core	2.9	21.4	0.28	202	0.001	0.49	<0.01	0.08	<0.5	0.91	7.0	<0.5	0.61	<5	<2	61.72	9.62	14.99	0.37	0.60
3206591	Drill Core	2.6	17.0	0.18	97	0.001	0.47	<0.01	0.07	<0.5	10.66	4.5	0.6	1.51	<5	<2	71.27	8.33	8.81	0.34	0.37
3206592	Drill Core	3.0	18.9	0.22	115	0.001	0.35	<0.01	0.09	<0.5	1.98	6.6	<0.5	1.12	<5	<2	68.65	8.95	11.64	0.36	0.49
3206593	Drill Core	2.4	24.4	0.19	369	0.001	0.58	<0.01	0.07	<0.5	1.32	6.2	0.5	0.86	<5	<2	69.10	8.93	10.66	0.34	0.40
3206594	Drill Core	2.1	25.1	0.25	104	<0.001	0.60	<0.01	0.07	<0.5	0.87	8.8	<0.5	0.85	<5	<2	59.28	9.11	17.55	0.33	0.54
3206595	Drill Core	1.2	25.4	0.15	1463	0.002	0.72	<0.01	0.04	<0.5	21.06	5.0	0.9	3.10	<5	<2	70.35	4.88	10.75	0.68	0.31
3206596	Drill Core	<0.5	11.7	0.15	83	<0.001	0.08	<0.01	0.02	<0.5	1.13	2.3	<0.5	0.34	<5	<2	85.45	1.52	7.64	0.21	0.31
3206597	Drill Core	<0.5	11.5	0.23	54	<0.001	0.08	<0.01	0.02	<0.5	1.26	3.5	<0.5	0.58	<5	<2	76.29	1.72	12.89	0.29	0.45
3206598	Drill Core	<0.5	11.3	0.19	50	<0.001	0.12	<0.01	0.03	<0.5	5.98	3.9	<0.5	1.34	<5	<2	78.60	2.14	11.37	0.24	0.37
3206599	Drill Core	1.2	12.3	0.11	77	<0.001	0.21	<0.01	0.05	<0.5	0.92	2.8	<0.5	0.53	<5	<2	80.10	4.92	7.53	0.26	0.26
3206600	Rock Pulp	23.3	13.6	2.84	140	0.017	1.04	0.01	0.77	0.8	1.00	4.3	26.5	4.77	<5	<2	43.95	8.73	8.23	7.43	5.37
3206601	Drill Core	1.8	16.1	0.10	109	<0.001	0.25	<0.01	0.07	<0.5	0.58	4.0	<0.5	0.68	<5	<2	78.90	5.83	7.52	0.21	0.23
3206602	Drill Core	1.7	15.3	0.09	102	<0.001	0.22	<0.01	0.07	<0.5	0.51	3.3	<0.5	0.59	<5	<2	80.70	5.75	6.43	0.20	0.21
3206603	Drill Core	1.0	15.1	0.18	146	<0.001	0.24	<0.01	0.04	<0.5	33.13	7.3	<0.5	1.99	<5	<2	65.59	3.54	15.49	0.23	0.38



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Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008	LF726
Analyte	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	V2O5	TOT/C	TOT/S	C/ORG	C/GRA	CO2	S/S-	SO4	Zn
Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
MDL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05	0.1
3206574	Drill Core	0.20	0.07	0.09	0.06	0.01	0.02	<0.01	<0.01	2.69	2.77	99.70	<0.01	0.53	1.97	0.20	<0.02	1.18	0.70	3.79
3206575	Drill Core	0.78	0.24	0.45	0.11	<0.01	0.09	<0.01	0.01	<0.01	5.64	99.39	0.03	1.46	1.32	0.50	0.03	3.40	1.07	0.72
3206576	Drill Core	0.40	0.21	0.21	0.06	<0.01	0.04	<0.01	0.06	4.80	5.49	99.78	0.02	1.24	3.72	0.38	<0.02	3.10	1.34	7.15
3206577	Drill Core	0.98	0.28	0.45	0.11	0.01	0.12	<0.01	0.01	0.16	6.49	99.76	0.03	1.81	0.92	0.55	<0.02	4.59	0.59	0.98
3206578	Drill Core	1.22	0.25	0.58	0.22	0.01	0.15	<0.01	0.01	<0.01	6.32	100.09	0.04	1.75	0.92	0.65	0.03	3.93	0.65	0.80
3206579	Drill Core	0.42	0.32	0.19	0.12	0.03	0.05	<0.01	<0.01	1.80	7.02	100.10	0.02	1.98	2.03	0.47	<0.02	5.52	0.93	3.28
3206580	Rock	1.51	0.13	0.53	0.15	<0.01	0.05	<0.01	<0.01	<0.01	0.84	100.22	0.02	0.03	<0.02	<0.02	<0.02	0.14	<0.05	0.17
3206581	Drill Core	0.97	0.14	0.47	0.23	0.01	0.12	<0.01	<0.01	0.12	4.94	99.58	0.04	1.34	1.21	0.71	0.03	2.18	0.99	0.64
3206582	Drill Core	1.01	0.18	0.49	0.23	0.02	0.12	<0.01	<0.01	0.10	5.56	99.75	0.04	1.53	1.16	0.73	0.03	2.81	0.94	0.68
3206583	Drill Core	1.18	0.16	0.54	0.27	0.02	0.15	<0.01	0.01	0.03	5.51	100.23	0.04	1.53	1.36	0.78	0.03	2.65	1.15	0.66
3206584	Drill Core	1.21	0.13	0.55	0.26	0.02	0.14	<0.01	0.03	1.25	5.34	100.09	0.04	1.28	1.58	0.67	<0.02	2.17	0.88	2.10
3206585	Drill Core	1.30	0.12	0.63	0.31	0.01	0.21	<0.01	<0.01	0.11	4.83	99.64	0.04	1.24	0.86	0.65	0.04	2.00	0.63	0.70
3206586	Drill Core	0.66	0.23	0.42	0.16	0.01	0.17	<0.01	0.02	2.09	7.56	99.65	0.03	1.72	3.94	0.60	0.02	4.04	2.69	3.76
3206587	Drill Core	1.17	0.19	0.62	0.24	0.01	0.16	<0.01	<0.01	<0.01	5.73	99.08	0.04	1.61	0.48	0.84	0.08	2.52	0.20	0.83
3206588	Drill Core	0.74	0.40	0.48	0.18	0.02	0.08	<0.01	0.02	0.10	8.34	99.45	0.03	2.50	0.49	0.56	0.05	6.92	0.19	0.89
3206589	Drill Core	1.05	0.29	0.57	0.19	0.02	0.12	<0.01	0.02	0.06	7.12	99.56	0.04	2.12	0.45	0.69	0.07	5.00	0.22	0.70
3206590	Drill Core	1.14	0.44	0.58	0.22	0.01	0.14	<0.01	0.02	0.13	9.71	99.85	0.05	2.84	0.67	0.68	0.07	7.69	0.35	0.97
3206591	Drill Core	0.85	0.22	0.50	0.23	0.01	0.10	<0.01	0.03	1.36	6.44	99.26	0.04	1.73	1.66	0.63	0.03	3.95	0.85	2.44
3206592	Drill Core	1.03	0.30	0.59	0.23	0.02	0.12	<0.01	<0.01	0.25	7.56	100.32	0.03	2.15	1.28	0.68	0.04	5.23	0.90	1.16
3206593	Drill Core	0.89	0.27	0.54	0.24	0.01	0.15	<0.01	<0.01	0.20	7.30	99.21	0.03	1.99	0.93	0.73	0.04	4.47	0.55	1.14
3206594	Drill Core	0.96	0.48	0.52	0.19	0.02	0.13	<0.01	<0.01	0.13	10.82	100.18	0.04	3.08	0.93	0.70	0.03	8.63	0.50	1.29
3206595	Drill Core	0.51	0.24	0.29	0.50	<0.01	0.37	0.01	0.06	2.80	7.61	100.12	0.04	1.72	3.53	0.65	0.04	3.78	1.88	4.94
3206596	Drill Core	0.20	0.20	0.05	0.12	<0.01	0.04	<0.01	0.02	0.09	4.05	99.93	0.01	1.35	0.39	0.39	0.03	3.39	0.18	0.63
3206597	Drill Core	0.21	0.32	0.10	0.16	<0.01	0.04	<0.01	0.01	0.11	6.78	99.40	0.01	2.18	0.63	0.62	<0.02	5.65	0.24	1.16
3206598	Drill Core	0.24	0.27	0.09	0.13	<0.01	0.03	<0.01	0.03	0.58	6.16	100.44	0.02	1.84	1.45	0.48	<0.02	4.92	0.89	1.68
3206599	Drill Core	0.54	0.18	0.25	0.16	<0.01	0.08	<0.01	0.02	0.07	4.87	99.32	0.02	1.54	0.55	0.66	0.05	3.00	0.30	0.76
3206600	Rock Pulp	4.21	0.24	0.30	0.13	<0.01	0.07	0.02	1.84	3.09	15.28	100.00	<0.01	3.26	5.12	0.28	<0.02	10.90	2.33	8.37
3206601	Drill Core	0.72	0.17	0.32	0.13	<0.01	0.11	<0.01	0.02	0.02	5.08	99.36	0.03	1.47	0.77	0.67	0.05	2.75	0.51	0.78
3206602	Drill Core	0.72	0.15	0.31	0.12	<0.01	0.11	<0.01	0.02	0.02	4.45	99.27	0.03	1.31	0.68	0.65	0.07	2.19	0.44	0.73
3206603	Drill Core	0.41	0.39	0.26	0.11	<0.01	0.07	<0.01	0.03	3.06	8.93	99.29	0.02	2.65	2.27	0.85	<0.02	6.51	0.53	5.24



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**Project:** MacMillan Pass

**Report Date:** October 12, 2019

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# CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
3206604	Drill Core	2.26	2.0	92.1	227.3	42674	6.0	40.3	10.0	1500	5.92	63	1.5	0.6	85	111.7	36.0	<0.5	62	0.17	0.069
3206605	Drill Core	1.73	1.7	6.3	76.1	499	0.8	37.1	5.6	1456	5.03	29	0.9	0.7	54	2.1	15.9	<0.5	39	0.12	0.046
3206606	Drill Core	1.71	1.6	5.5	45.9	762	0.7	30.1	4.7	1850	6.51	21	0.6	0.5	48	3.6	13.6	<0.5	41	0.15	0.049
3206607	Drill Core	1.76	1.9	38.1	48.8	9661	2.8	37.5	6.5	2261	7.81	23	0.9	0.9	73	68.9	23.3	<0.5	49	0.19	0.072
3206608	Drill Core	1.39	2.3	7.6	66.8	161	1.0	47.1	9.0	1478	5.22	37	0.6	0.7	53	0.9	25.3	<0.5	45	0.16	0.067
3206609	Drill Core	1.38	2.0	8.1	41.2	2940	0.9	33.2	5.1	1108	4.07	28	0.7	0.9	77	14.8	15.7	<0.5	49	0.23	0.106
3206610	Drill Core	0.87	<0.5	395.5	609.3	>200000	44.8	36.2	11.3	129	4.07	148	<0.5	<0.5	31	1035.4	197.9	<0.5	18	0.10	0.034
3206611	Rock	0.94	0.9	52.0	2.8	137	<0.5	3.5	10.6	451	2.90	<5	0.8	2.4	95	<0.5	<0.5	<0.5	109	1.07	0.062
3206612	Drill Core	1.92	1.2	24.5	76.6	4100	1.7	37.2	7.6	94	1.30	125	<0.5	<0.5	32	13.1	30.5	<0.5	<10	0.10	0.046
3206613	Drill Core	2.51	1.8	8.5	31.5	966	0.6	27.5	5.0	1326	4.72	56	<0.5	0.7	47	3.6	14.2	<0.5	49	0.13	0.047
3206614	Drill Core	1.46	0.8	8.5	67.4	1144	0.9	33.5	5.6	985	3.93	64	<0.5	<0.5	19	4.1	22.1	<0.5	21	0.07	0.023
3206615	Drill Core	1.61	1.0	7.8	43.0	1515	0.8	33.1	4.4	1461	5.23	48	<0.5	<0.5	66	6.1	18.8	<0.5	41	0.21	0.087
3206616	Drill Core	1.30	1.8	5.7	33.0	175	0.7	30.6	5.1	1591	5.19	22	<0.5	0.8	56	<0.5	15.1	<0.5	42	0.13	0.050
3206617	Drill Core	2.17	0.7	237.1	350.7	>200000	41.6	40.9	14.5	1420	5.55	94	<0.5	<0.5	18	762.9	173.0	<0.5	29	0.07	0.024
3206618	Drill Core	2.31	<0.5	283.7	528.3	>200000	48.6	55.8	19.0	1265	5.75	186	<0.5	<0.5	11	1085.9	194.4	<0.5	28	0.06	<0.001
3206619	Drill Core	2.18	<0.5	303.7	1190.5	>200000	61.0	56.1	33.5	1073	6.35	191	<0.5	<0.5	17	1072.1	226.7	<0.5	25	0.07	0.010
3206620	Rock Pulp	0.04	7.2	1343.2	>40000	173813	195.7	21.9	113.2	3569	12.02	237	0.9	2.3	28	656.1	128.2	0.8	13	4.27	0.031
3206621	Drill Core	2.67	<0.5	516.5	3470.5	>200000	119.5	69.2	32.5	355	4.08	260	<0.5	<0.5	8	1762.9	426.7	<0.5	<10	0.02	0.002



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**Project:** MacMillan Pass

**Report Date:** October 12, 2019

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# CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01	0.01
3206604	Drill Core	1.2	15.8	0.11	86	0.001	0.32	<0.01	0.05	<0.5	43.15	5.0	0.6	3.00	5	3	72.15	5.42	8.86	0.27	0.25
3206605	Drill Core	1.4	12.1	0.10	586	0.001	0.21	<0.01	0.06	<0.5	1.23	3.3	<0.5	0.36	<5	<2	80.38	5.18	7.64	0.18	0.23
3206606	Drill Core	1.2	12.9	0.14	75	<0.001	0.17	<0.01	0.05	<0.5	1.20	3.1	<0.5	0.34	<5	<2	78.73	4.05	9.81	0.23	0.31
3206607	Drill Core	1.6	15.8	0.17	91	0.001	0.23	<0.01	0.06	<0.5	12.32	4.0	<0.5	0.90	<5	2	73.15	4.68	11.61	0.27	0.34
3206608	Drill Core	1.5	14.2	0.13	89	<0.001	0.19	<0.01	0.05	<0.5	0.64	3.6	<0.5	0.65	<5	<2	79.37	5.67	8.01	0.25	0.29
3206609	Drill Core	1.8	14.7	0.09	138	0.001	0.23	<0.01	0.07	<0.5	3.35	4.3	<0.5	0.57	<5	<2	81.75	4.92	6.32	0.35	0.23
3206610	Drill Core	<0.5	2.0	0.03	46	<0.001	0.25	<0.01	0.04	<0.5	288.19	<0.5	3.0	17.25	16	3	41.04	2.52	5.69	0.15	0.08
3206611	Rock	7.0	5.3	0.86	192	0.191	1.94	0.25	0.34	0.6	0.19	4.6	<0.5	<0.05	5	<2	60.53	16.85	6.25	6.21	2.88
3206612	Drill Core	<0.5	4.2	0.01	58	<0.001	0.12	<0.01	0.03	<0.5	4.46	1.4	<0.5	1.10	<5	<2	91.74	2.65	1.96	0.15	0.06
3206613	Drill Core	1.4	13.9	0.11	105	0.001	0.21	<0.01	0.06	<0.5	1.21	4.7	<0.5	0.42	<5	<2	79.86	5.22	7.19	0.21	0.25
3206614	Drill Core	<0.5	6.7	0.11	49	<0.001	0.10	<0.01	0.02	<0.5	1.49	1.7	<0.5	0.56	<5	<2	87.62	2.06	5.94	0.12	0.23
3206615	Drill Core	0.6	12.1	0.13	96	0.001	0.17	<0.01	0.04	<0.5	1.98	4.1	<0.5	0.44	<5	<2	82.13	2.91	7.95	0.33	0.28
3206616	Drill Core	1.7	16.2	0.14	98	0.001	0.23	<0.01	0.05	<0.5	0.37	4.6	<0.5	0.33	<5	<2	79.21	5.16	7.99	0.21	0.31
3206617	Drill Core	<0.5	7.9	0.15	46	<0.001	0.12	<0.01	0.02	<0.5	228.86	4.9	2.0	10.79	23	3	55.14	1.57	7.95	0.12	0.29
3206618	Drill Core	<0.5	<0.5	0.16	70	<0.001	0.14	<0.01	<0.01	<0.5	271.52	7.8	2.6	13.98	14	<2	47.07	0.92	8.20	0.09	0.31
3206619	Drill Core	<0.5	1.1	0.14	41	<0.001	0.15	<0.01	0.02	<0.5	336.21	8.1	4.5	17.61	18	4	37.41	1.06	9.08	0.12	0.29
3206620	Rock Pulp	7.4	12.8	2.03	353	0.005	0.38	<0.01	0.13	<0.5	3.36	1.5	72.9	19.20	13	<2	14.22	2.49	17.08	6.04	3.51
3206621	Drill Core	<0.5	<0.5	0.06	44	<0.001	0.08	<0.01	<0.01	<0.5	530.63	4.4	7.7	20.00	108	10	11.40	0.44	5.74	0.03	0.11





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# CERTIFICATE OF ANALYSIS

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Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008	LF726
Analyte	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	V2O5	TOT/C	TOT/S	C/ORG	C/GRA	CO2	S/S-	SO4	Zn
Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
MDL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05	0.1
3206604	Drill Core	0.62	0.20	0.35	0.18	<0.01	0.08	<0.01	0.03	4.17	6.30	100.02	0.03	1.55	3.35	0.60	0.03	3.38	1.16	6.56
3206605	Drill Core	0.59	0.19	0.30	0.10	0.01	0.13	<0.01	0.02	0.05	4.82	99.88	0.03	1.55	0.43	0.57	0.07	3.33	0.22	0.62
3206606	Drill Core	0.46	0.24	0.25	0.13	<0.01	0.07	<0.01	0.02	0.08	5.78	100.21	0.03	1.99	0.39	0.76	0.11	4.10	0.16	0.71
3206607	Drill Core	0.52	0.28	0.30	0.17	<0.01	0.08	<0.01	0.01	0.96	6.78	99.46	0.02	2.07	0.99	0.60	<0.02	5.34	0.34	1.94
3206608	Drill Core	0.62	0.19	0.30	0.16	0.02	0.10	<0.01	0.02	0.02	5.06	100.12	0.03	1.55	0.75	0.65	0.05	3.14	0.49	0.77
3206609	Drill Core	0.68	0.14	0.38	0.26	<0.01	0.10	<0.01	0.02	0.29	4.14	99.70	0.03	1.30	0.62	0.56	0.03	2.58	0.26	1.09
3206610	Drill Core	0.27	0.02	0.23	0.10	<0.01	0.02	0.03	0.06	>24	10.18	97.15	0.01	0.51	18.29	0.44	0.03	0.18	13.38	14.72
3206611	Rock	1.52	0.13	0.52	0.14	<0.01	0.05	<0.01	<0.01	<0.01	0.90	99.33	0.03	0.09	<0.02	0.08	<0.02	<0.08	<0.05	0.24
3206612	Drill Core	0.31	0.02	0.11	0.10	<0.01	0.06	<0.01	<0.01	0.39	1.62	99.31	<0.01	0.42	1.19	0.33	0.04	0.14	1.02	0.52
3206613	Drill Core	0.63	0.18	0.34	0.13	0.01	0.11	<0.01	0.01	0.10	4.76	99.09	0.03	1.54	0.48	0.59	0.06	3.25	0.28	0.62
3206614	Drill Core	0.24	0.13	0.11	0.06	<0.01	0.05	<0.01	0.02	0.11	3.49	100.24	0.01	1.22	0.58	0.45	0.11	2.41	0.37	0.64
3206615	Drill Core	0.32	0.20	0.14	0.22	<0.01	0.07	<0.01	0.01	0.15	4.45	99.25	0.02	1.42	0.51	0.42	<0.02	3.58	0.25	0.80
3206616	Drill Core	0.54	0.21	0.32	0.14	<0.01	0.11	<0.01	<0.01	0.01	4.99	99.27	0.03	1.53	0.38	0.51	0.04	3.59	0.14	0.71
3206617	Drill Core	0.18	0.19	0.04	0.06	<0.01	0.04	0.02	0.04	20.79	8.74	100.36	0.01	1.22	11.48	0.40	<0.02	2.99	3.81	23.00
3206618	Drill Core	0.11	0.16	0.05	0.03	<0.01	0.03	0.02	0.07	>24	10.59	100.60	<0.01	1.45	15.62	0.70	0.04	2.59	7.89	23.20
3206619	Drill Core	0.12	0.14	0.08	0.06	<0.01	0.02	0.02	0.13	>24	11.85	100.50	<0.01	1.00	19.19	0.31	<0.02	2.47	10.32	26.62
3206620	Rock Pulp	0.91	0.45	0.06	0.07	0.01	0.14	0.12	12.53	17.07	13.47	93.48	<0.01	2.92	19.67	0.55	<0.02	8.63	12.32	22.05
3206621	Drill Core	0.05	0.05	<0.01	0.01	<0.01	<0.01	0.04	0.37	>24	15.12	100.13	<0.01	0.24	30.88	0.08	<0.02	0.54	23.35	22.58



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	Method Analyte Unit MDL	WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
3201489	Drill Core	2.36	4.8	131.0	158.9	51615	4.7	894.7	116.0	4552	15.85	946	4.6	1.2	241	146.6	120.1	<0.5	126	0.60	0.240
3206523	Drill Core	1.48	0.8	39.9	46.7	10927	4.0	148.8	43.0	10574	27.19	105	0.8	<0.5	143	40.1	23.2	<0.5	129	0.42	0.058
3206559	Drill Core	2.39	7.3	105.5	328.4	69769	8.6	365.9	53.0	3181	17.47	524	3.2	1.7	181	195.5	56.6	<0.5	98	0.53	0.217
Pulp Duplicates																					
3201493	Drill Core	2.70	<0.5	47.1	179.8	16296	3.9	324.6	57.0	11122	33.13	299	0.5	0.9	140	45.9	57.0	<0.5	178	0.60	0.153
REP 3201493	QC																				
3201494	Drill Core	1.85	0.8	54.9	173.6	25103	3.4	345.4	66.4	9383	26.01	276	2.6	1.0	280	99.2	63.8	<0.5	142	0.86	0.324
REP 3201494	QC																				
3201495	Drill Core	1.59	1.9	14.3	38.7	1519	0.8	77.9	10.1	6938	17.11	55	1.3	1.3	138	3.0	13.6	<0.5	105	0.32	0.100
REP 3201495	QC																				
3201496	Drill Core	2.50	0.8	15.3	83.8	486	1.0	162.7	19.1	12551	28.12	93	3.5	0.8	206	4.2	14.4	<0.5	138	0.59	0.124
REP 3201496	QC		1.0	17.1	85.0	478	1.0	171.9	19.0	12548	28.28	94	3.6	0.8	211	3.9	15.3	<0.5	138	0.60	0.130
3201500	Drill Core	1.24	1.3	51.7	3.8	42	<0.5	4.2	8.6	420	2.78	<5	1.0	2.9	87	<0.5	<0.5	<0.5	98	0.97	0.065
REP 3201500	QC																				
REP 3206501	QC																				
3206526	Drill Core	1.58	1.1	27.7	76.3	18582	2.3	298.9	36.8	12908	31.56	306	1.6	0.7	141	53.7	17.4	<0.5	137	0.69	0.144
REP 3206526	QC																				
3206527	Drill Core	1.78	9.1	59.9	129.8	49825	4.4	386.6	56.0	6448	19.83	334	4.0	0.9	154	168.0	39.9	<0.5	121	0.68	0.219
REP 3206527	QC																				
3206529	Drill Core	2.56	<0.5	46.2	272.3	17896	9.0	350.0	49.6	11749	34.43	407	0.9	1.2	114	65.9	42.5	<0.5	118	0.53	0.101
REP 3206529	QC																				
3206530	Drill Core	2.95	2.1	117.8	224.0	91405	9.8	355.2	41.5	5655	25.31	550	1.2	<0.5	88	402.3	69.2	<0.5	75	0.34	0.091
REP 3206530	QC		2.0	112.9	218.2	89328	9.4	353.8	43.8	5544	24.74	522	1.1	<0.5	80	378.7	68.0	<0.5	73	0.33	0.084
3206534	Drill Core	1.40	2.2	17.3	53.1	3256	1.1	77.3	4.8	3730	9.43	60	<0.5	<0.5	32	11.2	15.8	<0.5	40	0.16	0.025
REP 3206534	QC																				
REP 3206535	QC																				
3206560	Rock Pulp	0.05	4.2	485.7	34619.8	47415	55.9	18.1	40.7	2162	7.23	148	1.5	5.9	24	169.4	44.7	0.6	11	4.80	0.053
REP 3206560	QC																				
3206561	Drill Core	2.07	11.8	36.8	91.9	11007	3.0	118.9	10.1	124	1.24	116	1.9	0.6	95	35.3	25.0	<0.5	40	0.14	0.082



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	Method Analyte Unit MDL	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01	0.01
3201489	Drill Core	1.3	450.0	0.51	162	0.013	2.15	<0.01	0.05	<0.5	57.78	10.0	1.3	5.35	12	<2	28.76	16.95	23.49	0.88	0.91
3206523	Drill Core	<0.5	107.7	0.54	133	0.005	1.23	0.02	0.03	<0.5	14.05	24.6	0.7	3.39	<5	<2	15.54	13.70	41.00	0.59	0.94
3206559	Drill Core	1.4	239.8	0.23	61	0.006	1.14	<0.01	0.02	<0.5	71.96	7.2	2.3	12.04	16	5	40.76	6.44	25.03	0.76	0.46
Pulp Duplicates																					
3201493	Drill Core	1.2	418.1	0.97	75	0.011	2.39	<0.01	<0.01	<0.5	17.77	13.0	1.2	8.15	10	<2	13.05	5.59	49.50	0.88	1.65
REP 3201493	QC																13.17	5.59	49.81	0.89	1.66
3201494	Drill Core	0.8	314.4	0.79	218	0.005	1.23	0.01	0.03	<0.5	24.50	15.2	1.4	5.75	5	<2	17.41	10.60	39.68	1.23	1.35
REP 3201494	QC																17.41	10.58	39.29	1.23	1.36
3201495	Drill Core	2.0	30.5	0.42	115	0.001	0.27	<0.01	0.06	<0.5	1.44	10.9	0.6	0.93	<5	<2	47.15	7.28	25.89	0.47	0.78
REP 3201495	QC																				
3201496	Drill Core	1.3	197.5	0.67	1608	0.003	0.86	<0.01	<0.01	<0.5	0.61	12.8	<0.5	0.83	<5	<2	24.61	4.31	43.01	0.87	1.14
REP 3201496	QC	1.4	203.6	0.67	1645	0.003	0.87	<0.01	<0.01	<0.5	0.55	12.9	<0.5	0.81	<5	<2					
3201500	Drill Core	7.3	5.6	0.85	183	0.176	1.82	0.22	0.31	<0.5	0.20	2.9	<0.5	<0.05	5	<2	60.65	17.02	6.16	6.33	2.80
REP 3201500	QC																				
REP 3206501	QC																				
3206526	Drill Core	1.6	308.1	0.78	428	0.019	1.74	<0.01	<0.01	<0.5	22.01	16.9	<0.5	1.73	8	<2	16.25	4.97	46.89	0.98	1.33
REP 3206526	QC																16.51	5.03	47.92	0.99	1.34
3206527	Drill Core	1.0	263.4	0.46	78	0.008	1.29	<0.01	0.02	<0.5	55.70	10.7	0.7	5.73	7	2	36.08	7.75	28.28	0.95	0.80
REP 3206527	QC																36.43	7.79	28.51	0.94	0.81
3206529	Drill Core	2.0	310.2	0.71	15	0.014	1.54	<0.01	<0.01	<0.5	21.43	15.2	1.1	7.45	7	6	13.87	3.77	51.00	0.77	1.20
REP 3206529	QC																				
3206530	Drill Core	<0.5	217.6	0.37	44	0.006	0.96	<0.01	<0.01	<0.5	87.30	10.1	4.1	16.54	10	<2	25.31	4.73	35.60	0.48	0.68
REP 3206530	QC	1.8	207.5	0.36	49	0.007	0.93	<0.01	<0.01	<0.5	83.45	10.2	4.0	16.21	8	<2					
3206534	Drill Core	<0.5	12.8	0.20	53	<0.001	0.19	<0.01	0.03	<0.5	2.58	4.7	0.6	0.91	<5	<2	73.04	3.26	13.53	0.23	0.41
REP 3206534	QC																				
REP 3206535	QC																				
3206560	Rock Pulp	21.5	15.5	2.64	244	0.016	1.01	0.01	0.68	<0.5	0.77	3.4	44.7	7.63	10	<2	38.59	7.66	10.96	6.97	4.96
REP 3206560	QC																38.58	7.67	10.96	6.98	4.89
3206561	Drill Core	0.5	22.4	0.02	84	0.001	0.30	<0.01	0.04	<0.5	10.71	1.0	0.6	1.25	<5	3	87.04	5.13	1.88	0.23	0.07



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	Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008	LF726
	Analyte	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	V2O5	TOT/C	TOT/S	C/ORG	C/GRA	CO2	S/S-	SO4	Zn
	Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	MDL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05	0.1
3201489	Drill Core	0.83	0.58	4.23	0.57	0.26	0.34	<0.01	0.02	5.23	13.88	98.48	0.08	2.66	5.33	0.90	<0.02	6.41	2.19	9.43	
3206523	Drill Core	0.43	1.28	1.29	0.13	0.03	0.16	<0.01	<0.01	1.08	22.53	99.33	0.04	6.05	3.18	1.13	<0.02	18.00	1.89	3.85	
3206559	Drill Core	0.28	0.41	1.34	0.53	0.07	0.06	<0.01	0.04	7.07	14.51	99.61	0.05	2.68	12.97	1.14	<0.02	5.59	8.96	12.03	
Pulp Duplicates																					
3201493	Drill Core	<0.01	1.39	1.33	0.38	0.08	0.01	<0.01	0.03	1.64	23.55	99.52	0.03	5.86	7.97	0.68	<0.02	18.98	5.32	7.95	
REP 3201493	QC	0.01	1.39	1.34	0.38	0.08	0.02	<0.01	0.02	1.65	23.55	100.00	0.03								
3201494	Drill Core	0.54	1.18	2.31	0.71	0.13	0.22	<0.01	0.01	2.54	20.92	99.63	0.05	5.15	5.58	0.95	<0.02	15.40	3.28	6.88	
REP 3201494	QC	0.54	1.18	2.36	0.70	0.14	0.21	<0.01	0.02	2.49	20.92	99.24	0.05								
3201495	Drill Core	0.71	0.87	0.45	0.26	0.02	0.16	<0.01	0.01	0.17	14.14	98.52	0.03	4.31	0.94	0.79	<0.02	12.84	0.53	1.23	
REP 3201495	QC																<0.02				
3201496	Drill Core	0.08	1.60	0.80	0.32	0.05	0.17	<0.01	0.01	0.05	22.13	99.22	0.02	6.96	0.84	1.08	<0.02	21.55	0.36	1.44	
REP 3201496	QC																				
3201500	Drill Core	1.51	0.13	0.53	0.14	<0.01	0.05	<0.01	<0.01	<0.01	0.83	99.45	0.03	0.06	<0.02	0.05	<0.02	<0.08	<0.05	0.11	
REP 3201500	QC													0.06	<0.02					0.09	
REP 3206501	QC																	20.03			
3206526	Drill Core	0.03	1.56	0.96	0.35	0.06	0.04	<0.01	0.01	1.78	23.16	98.87	0.03	7.20	1.71	0.90	<0.02	23.09	0.22	4.45	
REP 3206526	QC	0.03	1.58	0.98	0.36	0.06	0.05	<0.01	0.01	1.83	23.16	100.36	0.03								
3206527	Drill Core	0.20	0.76	1.58	0.56	0.08	0.08	<0.01	0.01	4.86	15.75	99.06	0.04	4.08	5.72	1.28	<0.02	10.23	2.67	9.16	
REP 3206527	QC	0.21	0.77	1.60	0.57	0.08	0.08	<0.01	0.02	4.91	15.75	99.84	0.05								
3206529	Drill Core	<0.01	1.41	0.84	0.26	0.06	<0.01	<0.01	0.03	1.73	24.53	100.00	0.03	6.49	7.21	0.86	<0.02	20.65	4.71	7.49	
REP 3206529	QC																<0.02				
3206530	Drill Core	0.09	0.65	1.03	0.23	0.06	0.04	<0.01	0.03	8.75	19.73	99.72	0.02	3.24	16.40	0.68	<0.02	9.38	11.07	15.98	
REP 3206530	QC																				
3206534	Drill Core	0.33	0.44	0.18	0.06	<0.01	0.07	<0.01	0.01	0.32	7.36	99.40	0.02	2.36	0.86	0.62	0.02	6.30	0.46	1.22	
REP 3206534	QC													2.37	0.87					1.27	
REP 3206535	QC																	5.00			
3206560	Rock Pulp	3.63	0.29	0.23	0.12	<0.01	0.09	0.04	3.60	5.05	16.49	100.41	<0.01	3.35	8.45	0.54	<0.02	10.30	4.71	11.23	
REP 3206560	QC	3.61	0.29	0.24	0.12	0.01	0.08	0.04	3.57	5.02	16.49	100.26	<0.01								
3206561	Drill Core	0.50	0.03	0.39	0.20	0.02	0.08	<0.01	<0.01	1.12	3.28	100.32	0.06	1.56	1.42	1.46	0.06	0.16	1.10	0.95	



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		WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
REP 3206561	QC																				
3206564	Drill Core	1.64	1.4	18.6	34.5	27091	1.0	70.3	4.3	440	1.95	90	3.6	<0.5	32	75.7	12.8	<0.5	29	0.03	0.041
REP 3206564	QC																				
3206565	Drill Core	1.54	0.9	86.4	137.9	82848	5.7	60.5	5.6	196	1.57	74	1.7	<0.5	32	207.9	14.5	<0.5	15	0.05	0.031
REP 3206565	QC		1.1	91.2	130.9	82599	5.6	61.7	5.8	193	1.56	74	1.7	<0.5	31	207.1	14.4	<0.5	14	0.05	0.029
REP 3206569	QC																				
REP 3206569	QC																				
3206573	Drill Core	2.01	<0.5	275.5	9083.1	>200000	72.2	62.8	29.4	1025	5.00	855	1.6	<0.5	32	2240.3	174.9	<0.5	24	0.04	0.027
REP 3206573	QC																				
3206594	Drill Core	2.05	2.0	14.7	83.4	1249	0.6	81.4	15.9	3710	11.76	84	1.6	1.2	93	7.3	17.7	<0.5	104	0.22	0.070
REP 3206594	QC																				
3206595	Drill Core	2.40	2.1	145.4	478.6	28139	5.9	90.3	10.2	1936	7.18	107	3.2	0.8	119	238.0	88.0	<0.5	91	0.46	0.209
REP 3206595	QC																				
3206599	Drill Core	1.58	2.0	12.0	98.2	664	1.1	40.0	5.8	1328	4.99	37	0.6	0.6	43	2.5	26.1	<0.5	39	0.17	0.072
REP 3206599	QC																				
3206600	Rock Pulp	0.04	2.5	225.9	17575.4	30541	34.2	26.9	20.7	1813	5.38	84	1.5	6.6	23	96.4	46.6	0.5	15	5.17	0.053
REP 3206600	QC		2.6	230.2	17732.0	30415	35.1	27.6	20.6	1779	5.34	86	1.5	6.8	24	97.8	46.6	0.6	15	5.15	0.051
REP 3206603	QC																				
3206604	Drill Core	2.26	2.0	92.1	227.3	42674	6.0	40.3	10.0	1500	5.92	63	1.5	0.6	85	111.7	36.0	<0.5	62	0.17	0.069
REP 3206604	QC																				
3206619	Drill Core	2.18	<0.5	303.7	1190.5	>200000	61.0	56.1	33.5	1073	6.35	191	<0.5	<0.5	17	1072.1	226.7	<0.5	25	0.07	0.010
REP 3206619	QC																				
3206621	Drill Core	2.67	<0.5	516.5	3470.5	>200000	119.5	69.2	32.5	355	4.08	260	<0.5	<0.5	8	1762.9	426.7	<0.5	<10	0.02	0.002
REP 3206621	QC																				
Core Reject Duplicates																					
3206501	Drill Core	1.52	0.8	295.2	834.7	150770	20.9	168.9	27.8	10172	27.24	162	1.3	0.7	122	451.0	118.4	<0.5	137	0.60	0.149
DUP 3206501	QC		0.8	292.6	908.1	150837	21.4	165.9	27.6	10145	27.02	162	1.2	0.9	123	467.8	120.2	<0.5	137	0.59	0.155
3206535	Drill Core	1.75	2.5	16.4	113.2	3431	1.3	123.0	7.5	2760	8.14	96	1.1	<0.5	30	11.3	17.7	<0.5	41	0.13	0.031
DUP 3206535	QC		2.6	17.8	111.0	3458	1.2	114.7	7.5	2754	7.99	94	1.1	<0.5	30	11.6	17.9	<0.5	39	0.13	0.029



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		AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01	0.01
REP 3206561	QC																86.84	5.11	1.84	0.23	0.07
3206564	Drill Core	<0.5	17.6	0.03	138	<0.001	0.27	<0.01	0.02	<0.5	21.10	2.2	<0.5	1.88	<5	<2	87.62	2.59	2.74	0.05	0.08
REP 3206564	QC																				
3206565	Drill Core	<0.5	11.0	0.02	41	<0.001	0.17	<0.01	0.01	<0.5	68.52	1.9	<0.5	4.61	11	<2	80.45	2.63	2.29	0.08	0.05
REP 3206565	QC	<0.5	10.7	0.02	43	<0.001	0.17	<0.01	0.01	<0.5	69.84	1.0	<0.5	4.59	12	<2					
REP 3206569	QC																				
REP 3206569	QC																				
3206573	Drill Core	<0.5	8.5	0.12	18	<0.001	0.24	<0.01	<0.01	<0.5	586.56	3.8	6.9	20.32	28	<2	26.30	1.03	6.95	0.07	0.22
REP 3206573	QC																				
3206594	Drill Core	2.1	25.1	0.25	104	<0.001	0.60	<0.01	0.07	<0.5	0.87	8.8	<0.5	0.85	<5	<2	59.28	9.11	17.55	0.33	0.54
REP 3206594	QC																59.29	9.01	17.56	0.33	0.53
3206595	Drill Core	1.2	25.4	0.15	1463	0.002	0.72	<0.01	0.04	<0.5	21.06	5.0	0.9	3.10	<5	<2	70.35	4.88	10.75	0.68	0.31
REP 3206595	QC																70.30	4.88	10.75	0.67	0.31
3206599	Drill Core	1.2	12.3	0.11	77	<0.001	0.21	<0.01	0.05	<0.5	0.92	2.8	<0.5	0.53	<5	<2	80.10	4.92	7.53	0.26	0.26
REP 3206599	QC																				
3206600	Rock Pulp	23.3	13.6	2.84	140	0.017	1.04	0.01	0.77	0.8	1.00	4.3	26.5	4.77	<5	<2	43.95	8.73	8.23	7.43	5.37
REP 3206600	QC	25.4	14.7	2.86	141	0.018	1.02	0.01	0.75	0.7	1.04	4.6	27.7	4.70	<5	<2					
REP 3206603	QC																				
3206604	Drill Core	1.2	15.8	0.11	86	0.001	0.32	<0.01	0.05	<0.5	43.15	5.0	0.6	3.00	5	3	72.15	5.42	8.86	0.27	0.25
REP 3206604	QC																				
3206619	Drill Core	<0.5	1.1	0.14	41	<0.001	0.15	<0.01	0.02	<0.5	336.21	8.1	4.5	17.61	18	4	37.41	1.06	9.08	0.12	0.29
REP 3206619	QC																37.43	1.06	9.13	0.11	0.30
3206621	Drill Core	<0.5	<0.5	0.06	44	<0.001	0.08	<0.01	<0.01	<0.5	530.63	4.4	7.7	20.00	108	10	11.40	0.44	5.74	0.03	0.11
REP 3206621	QC																				
Core Reject Duplicates																					
3206501	Drill Core	0.9	238.7	0.65	17	0.008	1.18	<0.01	<0.01	<0.5	174.08	15.6	1.7	9.14	9	3	9.79	3.01	39.96	0.86	1.08
DUP 3206501	QC	0.8	245.9	0.64	18	0.007	1.16	<0.01	<0.01	<0.5	174.34	16.1	1.7	9.21	9	4	10.02	3.06	40.57	0.86	1.10
3206535	Drill Core	<0.5	17.7	0.18	42	<0.001	0.22	<0.01	0.02	<0.5	2.77	4.5	<0.5	1.48	<5	<2	76.86	2.82	11.70	0.20	0.33
DUP 3206535	QC	<0.5	16.9	0.18	39	<0.001	0.22	<0.01	0.03	<0.5	2.97	4.2	<0.5	1.42	<5	2	76.93	2.78	11.47	0.19	0.33



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## QUALITY CONTROL REPORT

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		LF725 K2O %	LF725 MnO %	LF725 TiO2 %	LF725 P2O5 %	LF725 Cr2O3 %	LF725 Ba %	LF725 Cu %	LF725 Pb %	LF725 Zn %	LF725 LOI %	LF725 SUM_T %	LF725 V2O5 %	TC000 TOT/C %	TC000 TOT/S %	TC005 C/ORG %	TC005 C/GRA %	TC006 CO2 %	TC008 S/S- %	TC008 SO4 %	LF726 Zn %
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05	0.1
REP 3206561	QC	0.50	0.03	0.37	0.20	0.02	0.09	<0.01	0.01	1.10	3.28	100.01	0.06								
3206564	Drill Core	0.20	0.06	0.08	0.10	<0.01	0.04	<0.01	<0.01	2.72	2.43	99.44	<0.01	0.38	2.04	0.16	<0.02	0.80	0.76	3.85	
REP 3206564	QC																<0.02				
3206565	Drill Core	0.19	0.03	0.17	0.07	<0.01	0.01	<0.01	<0.01	8.37	3.37	99.87	<0.01	0.27	5.13	0.15	<0.02	0.44	2.56	7.69	
REP 3206565	QC																				
REP 3206569	QC													1.34	1.73					0.46	
REP 3206569	QC																	1.65			
3206573	Drill Core	0.07	0.14	0.02	0.08	<0.01	<0.01	0.02	0.91	>24	13.03	100.80	<0.01	0.82	22.43	0.18	<0.02	2.34	14.63	23.41	41.0
REP 3206573	QC																				40.9
3206594	Drill Core	0.96	0.48	0.52	0.19	0.02	0.13	<0.01	<0.01	0.13	10.82	100.18	0.04	3.08	0.93	0.70	0.03	8.63	0.50	1.29	
REP 3206594	QC	0.96	0.48	0.53	0.18	0.02	0.12	<0.01	0.01	0.12	10.82	100.09	0.04								
3206595	Drill Core	0.51	0.24	0.29	0.50	<0.01	0.37	0.01	0.06	2.80	7.61	100.12	0.04	1.72	3.53	0.65	0.04	3.78	1.88	4.94	
REP 3206595	QC	0.51	0.24	0.30	0.49	0.01	0.36	0.01	0.05	2.79	7.61	100.06	0.03								
3206599	Drill Core	0.54	0.18	0.25	0.16	<0.01	0.08	<0.01	0.02	0.07	4.87	99.32	0.02	1.54	0.55	0.66	0.05	3.00	0.30	0.76	
REP 3206599	QC																0.05				
3206600	Rock Pulp	4.21	0.24	0.30	0.13	<0.01	0.07	0.02	1.84	3.09	15.28	100.00	<0.01	3.26	5.12	0.28	<0.02	10.90	2.33	8.37	
REP 3206600	QC																				
REP 3206603	QC													2.70	2.27					5.15	
3206604	Drill Core	0.62	0.20	0.35	0.18	<0.01	0.08	<0.01	0.03	4.17	6.30	100.02	0.03	1.55	3.35	0.60	0.03	3.38	1.16	6.56	
REP 3206604	QC																	3.44			
3206619	Drill Core	0.12	0.14	0.08	0.06	<0.01	0.02	0.02	0.13	>24	11.85	100.50	<0.01	1.00	19.19	0.31	<0.02	2.47	10.32	26.62	31.9
REP 3206619	QC	0.12	0.14	0.08	0.06	<0.01	0.02	0.02	0.14	>24	11.85	100.90	<0.01								
3206621	Drill Core	0.05	0.05	<0.01	0.01	<0.01	<0.01	0.04	0.37	>24	15.12	100.13	<0.01	0.24	30.88	0.08	<0.02	0.54	23.35	22.58	53.9
REP 3206621	QC																				53.4
Core Reject Duplicates																					
3206501	Drill Core	<0.01	1.25	0.75	0.33	0.04	<0.01	0.02	0.10	14.97	22.75	98.76	0.02	5.91	9.26	0.51	<0.02	19.75	1.33	23.80	
DUP 3206501	QC	<0.01	1.28	0.78	0.34	0.05	<0.01	0.02	0.11	15.52	22.88	100.56	0.02	5.91	9.32	0.63	<0.02	19.34	1.42	23.70	
3206535	Drill Core	0.23	0.35	0.12	0.07	0.02	0.05	<0.01	<0.01	0.34	6.28	99.49	0.02	1.90	1.47	0.50	0.02	5.04	1.00	1.39	
DUP 3206535	QC	0.22	0.35	0.12	0.07	<0.01	0.05	<0.01	<0.01	0.34	6.25	99.22	0.02	1.91	1.38	0.55	<0.02	4.93	0.89	1.48	





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## QUALITY CONTROL REPORT

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		WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
3206569	Drill Core	1.78	6.0	54.6	82.5	148	2.8	78.0	11.2	938	3.76	75	0.7	1.6	71	2.3	37.9	<0.5	57	0.14	0.072
DUP 3206569	QC		6.0	48.0	83.3	160	2.8	80.4	11.8	964	3.79	76	0.8	1.6	71	2.3	38.1	<0.5	56	0.15	0.073
3206603	Drill Core	1.94	1.4	63.0	232.3	31536	4.6	29.9	6.6	3039	10.63	32	0.6	0.5	43	87.7	25.9	<0.5	69	0.15	0.045
DUP 3206603	QC		1.4	64.2	225.8	31582	4.3	31.9	6.7	2926	10.61	30	0.5	<0.5	40	84.2	24.9	<0.5	71	0.15	0.039
Reference Materials																					
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD CZN-4	Standard																				
STD CZN-4	Standard																				
STD GBM309-15	Standard																				
STD GBM309-15	Standard																				
STD GBM309-15	Standard																				
STD GBM309-15	Standard																				
STD GBM309-14	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GS311-1	Standard																				



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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.



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		LF725 K2O %	LF725 MnO %	LF725 TiO2 %	LF725 P2O5 %	LF725 Cr2O3 %	LF725 Ba %	LF725 Cu %	LF725 Pb %	LF725 Zn %	LF725 LOI %	LF725 SUM_T %	LF725 V2O5 %	TC000 TOT/C %	TC000 TOT/S %	TC005 C/ORG %	TC005 C/GRA %	TC006 CO2 %	TC008 S/S- %	TC008 SO4 %	LF726 Zn %		
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05	0.1		
3206569	Drill Core	0.97	0.12	0.46	0.15	0.01	0.13	<0.01	0.01	0.01	4.80	100.01	0.04	1.35	1.73	0.85	0.04	1.68	1.57	0.48			
DUP 3206569	QC	0.96	0.12	0.44	0.15	0.02	0.13	<0.01	<0.01	0.01	4.91	99.58	0.04	1.34	1.80	0.83	0.05	1.70	1.64	0.47			
3206603	Drill Core	0.41	0.39	0.26	0.11	<0.01	0.07	<0.01	0.03	3.06	8.93	99.29	0.02	2.65	2.27	0.85	<0.02	6.51	0.53	5.24			
DUP 3206603	QC	0.42	0.40	0.24	0.11	<0.01	0.07	<0.01	0.04	3.11	8.93	100.37	0.03	2.66	2.26	0.71	0.02	7.09	0.58	5.03			
Reference Materials																							
STD COO1	Standard																		2.39				
STD COO1	Standard																		2.22				
STD COO1	Standard																		2.35				
STD COO1	Standard																		2.35				
STD COO2	Standard																		3.55				
STD COO2	Standard																		3.50				
STD COO2	Standard																		3.52				
STD COO2	Standard																		3.45				
STD CZN-4	Standard																					55.9	
STD CZN-4	Standard																					55.3	
STD GBM309-15	Standard													0.24	27.48								
STD GBM309-15	Standard													0.19	27.82								
STD GBM309-15	Standard													0.23	28.69								
STD GBM309-15	Standard													0.22	28.33								
STD GBM309-14	Standard																					22.5	
STD GGC-10	Standard																	4.82					
STD GGC-10	Standard																	4.35					
STD GGC-10	Standard																	4.82					
STD GGC-10	Standard																	4.91					
STD GGC-10	Standard																	4.94					
STD GGC-10	Standard																	4.75					
STD GGC-10	Standard																	4.48					
STD GGC-10	Standard																	4.68					
STD GS311-1	Standard														1.02	2.24							



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		WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
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 GS910-4	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS135	Standard		7.9	303.1	17323.7	28754	54.0	35.5	29.9	4219	9.20	949	8.5	9.3	25	68.4	32.2	4.3	32	1.93	0.089
STD OREAS135	Standard		8.3	299.1	16757.9	28509	56.5	38.5	29.6	3925	8.92	965	8.9	10.1	27	69.9	37.8	5.1	39	1.79	0.087
STD OREAS133B(D)	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS605	Standard		4.7	49043.6	861.7	2202	985.5	1595.9	96.1	84	3.79	1740	0.9	2.5	50	14.3	267.6	17.2	<10	0.19	0.012
STD OREAS605	Standard		4.8	49559.3	893.4	2206	984.2	1567.6	101.6	87	3.79	1708	0.9	2.3	45	14.3	285.1	19.0	<10	0.18	0.010
STD OREAS605	Standard		4.2	49081.8	877.6	2168	955.5	1556.8	99.0	92	3.56	1680	0.8	2.5	50	14.4	286.2	18.7	11	0.18	0.010
STD OREAS605	Standard		4.8	47892.9	854.0	2129	978.3	1616.6	94.9	91	3.57	1662	1.0	2.6	50	14.2	315.6	20.4	11	0.18	0.011
STD OREAS72B	Standard																				
STD OREAS72B	Standard																				
STD OREAS72B	Standard																				
STD OREAS72B	Standard																				
STD OREAS72B	Standard																				
STD OREAS927-AR	Standard		1.1	10946.9	236.9	753	4.6	31.3	30.4	1071	8.13	11	1.7	13.1	13	1.2	1.3	64.5	37	0.30	0.048
STD OREAS927-AR	Standard		1.1	10496.0	228.8	693	4.2	28.1	28.3	1085	8.03	12	1.8	14.0	15	0.9	1.5	71.1	44	0.29	0.056
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				



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## QUALITY CONTROL REPORT

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		AQ270 La ppm 0.5	AQ270 Cr ppm 0.5	AQ270 Mg % 0.01	AQ270 Ba ppm 5	AQ270 Ti % 0.001	AQ270 Al % 0.01	AQ270 Na % 0.01	AQ270 K % 0.01	AQ270 W ppm 0.5	AQ270 Hg ppm 0.05	AQ270 Sc ppm 0.5	AQ270 Ti ppm 0.5	AQ270 S % 0.05	AQ270 Ga ppm 5	AQ270 Se ppm 2	LF725 SiO2 % 0.01	LF725 Al2O3 % 0.01	LF725 Fe2O3 % 0.01	LF725 CaO % 0.01	LF725 MgO % 0.01
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD OREAS133B(D)	Standard																34.75	6.98	11.59	5.34	3.86
STD OREAS133B(D)	Standard																34.78	6.96	11.54	5.31	3.81
STD OREAS133B(D)	Standard																34.95	6.96	11.53	5.30	3.84
STD OREAS135	Standard	34.4	20.2	0.83	451	0.025	1.10	0.02	0.46	3.1	1.30	4.0	6.5	7.48	<5	<2					
STD OREAS135	Standard	39.1	24.2	0.84	422	0.027	1.13	0.02	0.50	3.0	1.18	4.6	6.2	7.16	<5	<2					
STD OREAS133B(D)	Standard																34.83	7.01	11.54	5.36	3.83
STD OREAS133B(D)	Standard																35.00	6.95	11.55	5.35	3.82
STD OREAS605	Standard	6.8	26.0	0.03	538	0.012	0.76	0.03	0.13	7.3	1.81	1.5	16.1	8.02	6	78					
STD OREAS605	Standard	6.9	29.3	0.02	209	0.010	0.77	0.03	0.12	7.3	1.67	1.3	16.1	7.74	7	73					
STD OREAS605	Standard	7.6	27.6	0.03	276	0.011	0.76	0.03	0.13	7.5	1.69	1.7	15.4	7.91	7	71					
STD OREAS605	Standard	7.8	29.2	0.03	188	0.010	0.75	0.03	0.14	7.5	1.73	1.1	16.2	7.86	7	81					
STD OREAS72B	Standard																51.12	8.90	9.83	3.96	16.01
STD OREAS72B	Standard																51.18	8.95	9.92	3.96	16.02
STD OREAS72B	Standard																51.16	8.96	9.91	3.98	16.06
STD OREAS72B	Standard																51.22	8.87	9.80	3.96	15.96
STD OREAS72B	Standard																51.15	8.89	9.83	3.92	15.94
STD OREAS927-AR	Standard	28.4	43.9	1.93	50	0.092	3.34	<0.01	0.27	5.7	0.20	5.7	<0.5	1.76	9	14					
STD OREAS927-AR	Standard	28.1	40.6	1.93	48	0.088	3.31	<0.01	0.28	5.6	0.24	4.2	<0.5	1.71	9	15					
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				



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## QUALITY CONTROL REPORT

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		LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008	LF726	
		K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	V2O5	TOT/C	TOT/S	C/ORG	C/GRA	CO2	S/S-	SO4	Zn
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05	0.1
STD GS311-1	Standard													1.03	2.29						
STD GS311-1	Standard													1.01	2.41						
STD GS311-1	Standard													0.98	2.50						
STD GS910-4	Standard													2.68	8.17						
STD GS910-4	Standard													2.71	8.53						
STD GS910-4	Standard													2.79	8.96						
STD GS910-4	Standard													2.62	8.64						
STD OREAS133B(D)	Standard	3.47	0.17	0.20	0.12	0.01	0.08	0.06	5.07	11.39	13.03	99.50	<0.01								
STD OREAS133B(D)	Standard	3.45	0.16	0.20	0.12	<0.01	0.08	0.06	5.07	11.40	13.03	99.35	<0.01								
STD OREAS133B(D)	Standard	3.49	0.17	0.20	0.13	0.01	0.05	0.06	5.07	11.36	4.56	91.07	<0.01								
STD OREAS135	Standard																				
STD OREAS135	Standard																				
STD OREAS133B(D)	Standard	3.49	0.16	0.19	0.13	<0.01	0.07	0.06	5.07	11.37	13.03	99.55	<0.01								
STD OREAS133B(D)	Standard	3.48	0.17	0.20	0.13	<0.01	0.07	0.06	5.07	11.45	13.03	99.66	<0.01								
STD OREAS605	Standard																				
STD OREAS605	Standard																				
STD OREAS605	Standard																				
STD OREAS605	Standard																				
STD OREAS72B	Standard	1.34	0.14	0.34	0.06	0.15	0.04	0.02	<0.01	0.01	5.12	98.34	0.01								
STD OREAS72B	Standard	1.33	0.14	0.34	0.06	0.15	0.03	0.02	<0.01	<0.01	5.12	98.56	0.01								
STD OREAS72B	Standard	1.32	0.14	0.33	0.06	0.16	0.03	0.02	<0.01	<0.01	5.12	98.57	0.01								
STD OREAS72B	Standard	1.33	0.13	0.33	0.06	0.15	0.04	0.02	<0.01	<0.01	5.12	98.32	0.01								
STD OREAS72B	Standard	1.31	0.14	0.31	0.05	0.15	0.03	0.02	<0.01	<0.01	5.12	98.18	0.01								
STD OREAS927-AR	Standard																				
STD OREAS927-AR	Standard																				
STD RTS-3A	Standard																			3.17	
STD RTS-3A	Standard																			3.40	
STD RTS-3A	Standard																			3.50	
STD RTS-3A	Standard																			3.44	



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## QUALITY CONTROL REPORT

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		WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01
STD RTS-3A	Standard																			
STD RTS-3A	Standard																			
STD RTS-3A	Standard																			
STD RTS-3A	Standard																			
STD SY-4(D)	Standard																			
STD SY-4(D)	Standard																			
STD SY-4(D)	Standard																			
STD SY-4(D)	Standard																			
STD SY-4(D)	Standard																			
STD RTS-3A Expected																				
STD OREAS135 Expected			8.25	294	17000	28000	55.2	36	29.6	3960	8.97	937	9.4	10.4	26.5	67	38	5.1	33.4	1.83
STD SY-4(D) Expected																				
STD OREAS72B Expected																				
STD OREAS133B(D) Expected																				
STD OREAS605 Expected			4.75	49800	856	2170	984	1568	96	86	3.75	1674	0.92		49	13.6	307	19	7.8	0.182
STD OREAS927-AR Expected			1.06	10715	203	726	4.9	30.9	29.4	1110	8.15	13.5	1.7	12.5	13.1	1.1	1.3	66	34	0.3
STD GS311-1 Expected																				
STD GS910-4 Expected																				
STD GBM309-15 Expected																				
STD CZN-4 Expected																				
STD GBM309-14 Expected																				
STD GGC-10 Expected																				
STD COO1 Expected																				
STD COO2 Expected																				
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
SI BLK	Blank																			





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## QUALITY CONTROL REPORT

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		AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725	
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01	0.01
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD SY-4(D)	Standard																49.81	20.68	6.21	8.01	0.53
STD SY-4(D)	Standard																49.76	20.71	6.22	7.97	0.53
STD SY-4(D)	Standard																49.87	20.67	6.19	7.95	0.54
STD SY-4(D)	Standard																49.88	20.70	6.21	8.03	0.53
STD SY-4(D)	Standard																50.12	20.73	6.20	7.99	0.54
STD RTS-3A Expected																					
STD OREAS135 Expected		39.8	22	0.833	366	0.026	1.09	0.017	0.487	2.93	1.21	3.51	6.27	7.08	4.8						
STD SY-4(D) Expected																	49.9	20.69	6.21	8.05	0.54
STD OREAS72B Expected																	51.16	8.97	9.724	3.96	15.933
STD OREAS133B(D) Expected																	33.83	6.91	11.67	5.4	3.73
STD OREAS605 Expected		7.5	27.5	0.0289	160	0.01	0.73	0.0328	0.134	7.1	1.7	1.05	15.9	7.86	6.7	79					
STD OREAS927-AR Expected		26.9	41.7	1.94	51.4	0.085	3.25	0.011	0.27	4.9	0.12	4.74	1.77		9.09	15.5					
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD GBM309-15 Expected																					
STD CZN-4 Expected																					
STD GBM309-14 Expected																					
STD GGC-10 Expected																					
STD COO1 Expected																					
STD COO2 Expected																					
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
SI BLK	Blank																98.86	0.30	0.03	0.01	0.02



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		LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008	LF726		
		K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	V2O5	TOT/C	TOT/S	C/ORG	C/GRA	CO2	S/S-	SO4	Zn	
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05	0.1	
STD RTS-3A	Standard	3.40																				
STD RTS-3A	Standard	3.53																				
STD RTS-3A	Standard	3.36																				
STD RTS-3A	Standard	3.47																				
STD SY-4(D)	Standard	1.67	0.12	0.29	0.12	<0.01	0.04	<0.01	0.01	0.01	4.56	99.18	<0.01									
STD SY-4(D)	Standard	1.67	0.12	0.30	0.12	<0.01	0.04	<0.01	<0.01	0.01	4.56	99.13	<0.01									
STD SY-4(D)	Standard	1.67	0.11	0.30	0.12	<0.01	0.03	<0.01	0.01	0.01	4.56	99.19	<0.01									
STD SY-4(D)	Standard	1.67	0.11	0.30	0.13	<0.01	0.04	<0.01	0.01	<0.01	4.56	99.33	<0.01									
STD SY-4(D)	Standard	1.68	0.12	0.30	0.12	<0.01	0.04	<0.01	0.02	0.01	4.56	99.52	<0.01									
STD RTS-3A Expected		3.3																				
STD OREAS135 Expected																						
STD SY-4(D) Expected		1.66	0.108	0.287	0.131	0.0345						4.56										
STD OREAS72B Expected		1.313	0.13	0.355	0.061	0.142	0.0335	0.0193				5.12										
STD OREAS133B(D) Expected		0.08 0.032 5.06 11.35																				
STD OREAS605 Expected																						
STD OREAS927-AR Expected																						
STD GS311-1 Expected														1.02	2.35							
STD GS910-4 Expected														2.65	8.27							
STD GBM309-15 Expected														0.22	28.84							
STD CZN-4 Expected		55.07																				
STD GBM309-14 Expected		22.7192																				
STD GGC-10 Expected																	4.79					
STD COO1 Expected																			2.37			
STD COO2 Expected																			3.43			
BLK	Blank	<0.05																				
BLK	Blank	<0.05																				
BLK	Blank	<0.05																				
BLK	Blank	<0.05																				
SI BLK	Blank	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	99.23	<0.01									



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		WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
SI BLK	Blank																				
SI BLK	Blank																				
BLK	Blank		<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<10	<0.01	<0.001
BLK	Blank																				
BLK	Blank																				
BLK	Blank		<0.5	1.1	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<10	<0.01	<0.001
BLK	Blank		<0.5	<0.5	<0.5	8	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<10	<0.01	0.001
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
SI BLK	Blank																				
SI BLK	Blank																				
BLK	Blank		<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<10	<0.01	<0.001
BLK	Blank																				
SI BLK	Blank																				
BLK	Blank																				
SI BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank		0.8	5.0	1.0	32	<0.5	1.8	3.7	571	1.92	<5	<0.5	1.9	22	<0.5	<0.5	<0.5	29	0.66	0.044
ROCK-WHI	Prep Blank		0.7	3.4	1.0	30	<0.5	1.1	3.6	558	1.86	<5	<0.5	2.1	23	<0.5	<0.5	<0.5	26	0.59	0.042



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## QUALITY CONTROL REPORT

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		AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725	
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01	0.01
SI BLK	Blank																98.79	0.33	0.02	0.02	0.02
SI BLK	Blank																99.60	0.32	0.03	0.01	0.02
BLK	Blank	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.05	<5	<2					
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	0.17	<0.5	<0.5	<0.05	<5	<2					
BLK	Blank	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.05	<5	<2					
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
SI BLK	Blank																99.10	0.30	0.03	0.02	0.02
SI BLK	Blank																98.60	0.31	0.03	0.01	0.02
BLK	Blank	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.05	<5	<2					
BLK	Blank																				
SI BLK	Blank																				
BLK	Blank																				
SI BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank	5.7	4.2	0.57	45	0.087	0.98	0.09	0.08	<0.5	<0.05	2.5	<0.5	<0.05	<5	<2	69.74	14.22	3.38	2.36	1.12
ROCK-WHI	Prep Blank	6.0	3.5	0.48	51	0.088	0.91	0.09	0.09	<0.5	<0.05	3.0	<0.5	<0.05	<5	<2	70.58	14.26	3.24	2.28	0.95



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**Project:**

MacMillan Pass

**Report Date:**

October 12, 2019

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## QUALITY CONTROL REPORT

WHI19000554.1

		LF725 K2O %	LF725 MnO %	LF725 TiO2 %	LF725 P2O5 %	LF725 Cr2O3 %	LF725 Ba %	LF725 Cu %	LF725 Pb %	LF725 Zn %	LF725 LOI %	LF725 SUM_T %	LF725 V2O5 %	TC000 TOT/C %	TC000 TOT/S %	TC005 C/ORG %	TC005 C/GRA %	TC006 CO2 %	TC008 S/S- %	TC008 SO4 %	LF726 Zn %
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05	0.1
SI BLK	Blank	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	99.18	<0.01								
SI BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	99.98	<0.01								
BLK	Blank																				
BLK	Blank													<0.02	<0.02						
BLK	Blank																	<0.02			
BLK	Blank													<0.02	<0.02						
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
SI BLK	Blank	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	99.51	<0.01								
SI BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	98.96	<0.01								
BLK	Blank																				
BLK	Blank													<0.02	<0.02						
SI BLK	Blank																				<0.1
BLK	Blank																				
SI BLK	Blank																				<0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank	1.80	0.10	0.37	0.10	<0.01	0.08	<0.01	<0.01	<0.01	0.95	98.84	<0.01	0.11	<0.02	<0.02	<0.02	0.32	<0.05	0.15	
ROCK-WHI	Prep Blank	1.85	0.10	0.35	0.09	<0.01	0.08	<0.01	<0.01	<0.01	0.89	99.44	<0.01	0.10	<0.02	0.04	<0.02	0.23	<0.05	0.18	