



**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 18, 2019

Report Date: October 17, 2019

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## CERTIFICATE OF ANALYSIS

WHI19000556.1

### 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	135	Crush, split and pulverize 500g rock to 200 mesh			WHI
SLBHP	3	Sort, label and box pulps			WHI
CRUBW	135	Extra clean rock wash between samples in crusher			WHI
PULSW	135	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	9	Li2B4O7/LiBO2 fusion, analysis by XRF		Completed	VAN

### ADDITIONAL COMMENTS

V2O5 from LF725 is Qualitative Data only.

  
MAY LAI  
Data Validation Specialist

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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	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	ppm	%	%
					0.01	0.5	0.5	0.5	5	0.5	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
3206622	Drill Core	2.35	<0.5	583.7	2885.1	>200000	144.4	65.6	26.9	207	4.07	289	<0.5	<0.5	10	2143.6	567.7	<0.5	<10	0.02	<0.001				
3206623	Drill Core	1.85	1.1	149.9	1558.5	188015	36.3	58.9	8.9	950	6.61	187	<0.5	0.6	40	608.3	160.5	<0.5	23	0.10	0.035				
3206624	Drill Core	2.00	1.6	234.9	417.5	161762	34.1	49.1	16.1	1423	6.43	110	0.9	1.1	60	592.8	105.3	<0.5	47	0.11	0.047				
3206625	Drill Core	2.47	2.0	21.8	64.9	9156	1.3	54.7	11.7	2842	9.68	92	1.9	1.3	64	48.0	15.3	<0.5	83	0.16	0.050				
3206626	Drill Core	1.27	1.4	18.2	26.0	4462	0.5	48.8	13.5	2701	8.78	56	0.9	1.1	66	25.0	8.5	<0.5	61	0.16	0.043				
3206627	Drill Core	2.15	1.9	90.6	72.2	24289	2.9	77.6	18.3	2043	8.33	107	4.2	1.3	89	162.4	22.0	<0.5	111	0.16	0.071				
3206628	Drill Core	2.57	1.7	47.3	148.7	12768	2.5	64.4	14.8	1652	8.31	150	1.2	1.4	64	72.5	22.1	<0.5	66	0.14	0.051				
3206629	Drill Core	1.97	2.2	75.2	72.3	10638	5.0	55.8	13.7	1479	5.23	50	0.8	1.7	76	59.0	43.9	<0.5	46	0.14	0.043				
3206630	Drill Core	2.10	1.6	120.6	643.7	45174	5.0	87.9	15.2	2344	11.35	214	1.5	1.1	45	260.7	36.9	<0.5	71	0.16	0.041				
3206631	Drill Core	1.97	1.9	160.6	10098.5	58171	20.7	81.9	18.4	1218	6.28	151	0.6	2.0	77	277.6	57.3	0.7	34	0.16	0.056				
3206632	Drill Core	1.56	1.8	32.0	3435.1	16361	5.4	47.2	11.2	1187	5.00	55	0.6	2.3	75	93.1	47.4	0.6	37	0.15	0.052				
3206633	Drill Core	2.30	1.9	112.4	9988.7	94048	13.3	53.1	19.1	80	1.32	101	0.5	2.1	52	417.9	168.7	0.5	14	0.10	0.041				
3206634	Drill Core	1.93	2.9	100.1	6793.6	53901	14.5	70.9	33.4	60	1.39	115	0.6	1.7	52	226.0	89.1	0.6	15	0.10	0.041				
3206635	Drill Core	1.82	4.0	48.4	3551.0	25899	8.1	54.3	14.3	155	2.15	84	0.7	1.8	46	112.8	42.1	0.5	21	0.08	0.032				
3206636	Drill Core	1.85	3.7	78.3	1002.9	55412	6.2	70.0	22.6	1372	6.43	137	0.6	1.3	25	162.8	42.1	<0.5	30	0.08	0.022				
3206637	Drill Core	3.22	<0.5	126.5	7421.2	>200000	36.2	77.5	6.9	1169	4.77	107	1.1	0.5	23	1735.3	95.1	<0.5	42	0.07	0.020				
3206638	Drill Core	2.64	<0.5	163.6	9752.9	>200000	88.3	25.3	8.9	343	1.94	47	<0.5	<0.5	7	4083.1	136.7	<0.5	<10	0.02	<0.001				
3206639	Drill Core	2.76	<0.5	116.3	27495.0	>200000	70.2	31.1	6.9	444	2.61	59	<0.5	<0.5	7	4453.1	226.4	2.1	<10	0.02	0.002				
3206640	Rock	1.05	0.9	55.1	42.3	569	<0.5	4.5	9.4	399	3.02	<5	0.9	2.3	78	5.4	<0.5	<0.5	103	1.00	0.055				
3206641	Drill Core	2.35	0.6	175.0	4906.8	>200000	19.3	106.2	58.2	3628	10.20	263	<0.5	0.5	11	1914.9	90.1	<0.5	21	0.11	0.010				
3206642	Drill Core	2.16	0.6	129.3	4660.0	>200000	16.9	87.9	60.0	3815	10.69	239	<0.5	<0.5	14	1768.9	79.3	<0.5	21	0.13	0.018				
3206643	Drill Core	2.45	<0.5	453.1	6103.9	>200000	39.3	688.8	32.5	2898	9.59	970	<0.5	<0.5	7	3475.4	299.6	<0.5	23	0.07	0.026				
3206644	Drill Core	2.65	<0.5	293.6	4163.3	>200000	19.5	6103.0	39.8	4173	10.97	7250	<0.5	<0.5	<5	2420.0	1814.7	<0.5	12	0.06	<0.001				
3206645	Drill Core	2.28	<0.5	820.7	2065.1	>200000	61.2	3277.9	57.6	363	2.93	4017	<0.5	<0.5	13	2512.9	1221.2	<0.5	<10	0.02	0.005				
3206646	Drill Core	1.97	<0.5	185.1	2335.9	>200000	14.7	1545.9	21.9	4337	11.30	2043	<0.5	<0.5	23	1626.5	463.1	<0.5	40	0.16	0.025				
3206647	Drill Core	2.74	<0.5	463.0	2269.3	>200000	33.4	3267.9	98.7	2236	8.35	3890	<0.5	<0.5	24	2449.2	1428.3	<0.5	34	0.09	0.033				
3206648	Drill Core	1.81	<0.5	43.3	106.9	5428	0.9	231.2	25.8	9894	26.86	351	0.7	0.6	25	37.1	41.6	<0.5	91	0.37	0.048				
3206649	Drill Core	2.44	1.4	120.9	193.0	71055	4.0	212.4	26.8	8335	21.10	307	0.9	<0.5	35	438.3	35.1	<0.5	110	0.31	0.049				
3206650	Drill Core	2.37	44.3	33.3	108.2	415	1.1	132.3	8.9	4647	11.36	191	5.3	<0.5	25	2.3	27.9	<0.5	106	0.10	0.020				
3206651	Drill Core	1.83	32.3	34.9	154.2	176	2.6	121.6	6.5	108	18.52	520	3.5	<0.5	23	3.1	39.6	<0.5	34	0.06	0.032				



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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
3206622	Drill Core	<0.5	<0.5	0.03	60	<0.001	0.06	<0.01	<0.01	<0.5	595.61	<0.5	7.5	25.30	105	<2	11.00	0.38	5.54	0.05	0.05
3206623	Drill Core	0.5	11.8	0.10	81	<0.001	0.14	<0.01	0.03	<0.5	205.86	2.1	4.2	12.84	19	2	54.45	1.67	9.08	0.18	0.22
3206624	Drill Core	1.3	20.8	0.19	404	0.002	0.61	<0.01	0.07	<0.5	179.50	4.3	1.6	9.84	26	3	55.62	4.37	8.88	0.17	0.33
3206625	Drill Core	1.8	22.3	0.37	239	0.001	0.66	<0.01	0.09	<0.5	7.05	5.2	0.9	1.57	<5	<2	67.67	5.77	13.96	0.25	0.64
3206626	Drill Core	1.5	19.4	0.29	251	<0.001	0.44	<0.01	0.07	<0.5	4.84	5.8	<0.5	0.53	<5	<2	67.75	7.56	12.69	0.26	0.61
3206627	Drill Core	1.7	29.2	0.23	247	0.001	1.08	<0.01	0.08	<0.5	18.02	6.3	1.4	2.82	<5	<2	65.32	8.18	11.89	0.25	0.50
3206628	Drill Core	1.5	21.0	0.20	262	0.001	0.75	<0.01	0.09	<0.5	8.60	5.5	1.3	3.69	<5	<2	67.89	7.87	12.01	0.23	0.44
3206629	Drill Core	2.4	17.0	0.18	583	0.001	0.57	<0.01	0.13	<0.5	8.31	4.4	0.7	1.11	<5	<2	71.87	9.77	7.36	0.23	0.42
3206630	Drill Core	1.2	19.8	0.30	529	<0.001	0.56	<0.01	0.07	<0.5	34.08	5.7	3.0	5.88	9	<2	59.29	5.20	16.20	0.26	0.63
3206631	Drill Core	2.4	12.6	0.18	400	0.001	0.62	<0.01	0.12	<0.5	48.41	4.1	2.6	5.28	12	<2	62.06	9.85	8.90	0.25	0.42
3206632	Drill Core	2.9	15.5	0.21	399	0.001	0.74	<0.01	0.11	<0.5	12.29	4.9	0.7	1.32	<5	<2	70.21	9.79	7.03	0.24	0.48
3206633	Drill Core	2.7	5.0	0.02	450	0.001	0.30	<0.01	0.11	<0.5	80.79	1.8	0.8	5.69	11	<2	68.73	8.46	1.94	0.16	0.14
3206634	Drill Core	2.4	5.1	0.02	485	<0.001	0.30	<0.01	0.11	<0.5	46.03	1.1	0.9	3.96	11	<2	72.97	9.21	2.07	0.17	0.14
3206635	Drill Core	2.3	7.3	0.04	533	0.001	0.43	<0.01	0.11	<0.5	21.31	2.2	1.7	2.87	<5	<2	77.17	8.81	3.18	0.14	0.19
3206636	Drill Core	1.4	9.7	0.19	370	0.001	0.35	<0.01	0.09	<0.5	45.47	4.0	1.9	4.78	13	<2	66.33	6.39	8.98	0.15	0.42
3206637	Drill Core	0.5	4.9	0.17	347	<0.001	0.43	<0.01	0.07	<0.5	239.41	4.4	2.3	12.10	<5	<2	46.26	5.15	6.62	0.13	0.36
3206638	Drill Core	<0.5	6.1	0.05	96	<0.001	0.08	<0.01	0.02	<0.5	456.57	4.7	2.4	25.70	91	15	13.07	1.41	2.60	0.06	0.11
3206639	Drill Core	<0.5	2.9	0.06	95	<0.001	0.05	<0.01	0.02	<0.5	574.40	1.6	5.8	25.18	81	<2	6.94	1.02	3.61	0.06	0.10
3206640	Rock	6.1	5.2	0.85	168	0.179	1.82	0.23	0.27	<0.5	1.63	5.6	<0.5	0.05	6	<2	60.61	16.85	6.29	6.27	2.85
3206641	Drill Core	0.6	6.9	0.36	298	<0.001	0.13	<0.01	0.05	<0.5	188.41	4.8	2.1	11.74	10	<2	35.66	3.48	14.40	0.17	0.68
3206642	Drill Core	0.7	7.4	0.37	285	<0.001	0.14	<0.01	0.05	<0.5	171.83	5.8	1.9	10.50	12	4	37.61	3.84	14.82	0.21	0.72
3206643	Drill Core	<0.5	4.8	0.39	210	<0.001	0.14	<0.01	0.03	<0.5	352.49	7.1	2.7	21.99	5	<2	9.49	1.68	13.32	0.12	0.75
3206644	Drill Core	<0.5	<0.5	0.70	12	<0.001	0.03	<0.01	<0.01	<0.5	322.62	7.3	3.9	13.54	80	12	3.33	0.08	15.52	0.11	1.16
3206645	Drill Core	<0.5	<0.5	0.07	200	<0.001	0.04	<0.01	<0.01	<0.5	410.61	10.1	12.4	13.59	120	6	0.59	0.09	4.10	0.05	0.14
3206646	Drill Core	<0.5	50.2	0.36	199	0.001	0.21	<0.01	0.01	<0.5	218.89	4.3	5.1	9.76	25	5	19.20	1.53	16.33	0.24	0.72
3206647	Drill Core	<0.5	7.0	0.29	247	<0.001	0.22	<0.01	0.05	<0.5	283.28	8.6	4.2	21.86	36	7	10.50	2.25	11.85	0.15	0.55
3206648	Drill Core	<0.5	177.4	0.90	525	0.002	0.27	<0.01	0.04	<0.5	3.61	15.7	<0.5	0.62	<5	<2	27.24	3.30	41.62	0.57	1.56
3206649	Drill Core	0.7	141.1	0.71	662	0.002	0.59	<0.01	0.04	<0.5	34.82	11.9	0.6	4.21	12	<2	29.53	5.19	32.02	0.46	1.24
3206650	Drill Core	<0.5	7.3	0.33	293	0.003	0.32	<0.01	0.04	<0.5	0.37	2.6	1.0	0.91	<5	<2	68.81	2.39	16.45	0.18	0.53
3206651	Drill Core	<0.5	4.0	<0.01	267	<0.001	0.13	<0.01	0.03	<0.5	0.36	0.8	0.8	21.43	<5	<2	54.51	1.65	27.23	0.11	0.02



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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
3206622 Drill Core	0.06	0.03	0.01	0.01	<0.01	<0.01	0.04	0.29	>24	15.30	100.44	<0.01	0.19	29.07	0.08	<0.02	0.36	22.25	20.47	54.6
3206623 Drill Core	0.29	0.13	0.20	0.10	<0.01	0.06	<0.01	0.16	19.54	9.01	100.02	0.02	0.96	12.97	0.36	<0.02	2.15	4.52	25.35	
3206624 Drill Core	0.56	0.17	0.33	0.10	<0.01	0.19	0.01	0.04	16.87	8.48	100.39	0.03	1.21	9.84	0.46	<0.02	2.68	2.58	21.76	
3206625 Drill Core	0.84	0.35	0.43	0.11	<0.01	0.26	<0.01	<0.01	0.90	8.27	99.76	0.03	2.37	1.50	0.59	<0.02	6.48	0.54	2.87	
3206626 Drill Core	1.08	0.34	0.45	0.12	0.01	0.32	<0.01	<0.01	0.43	8.04	99.92	0.03	2.41	0.50	0.64	0.02	6.44	<0.05	2.24	
3206627 Drill Core	1.07	0.27	0.50	0.18	0.01	0.31	<0.01	<0.01	2.32	7.82	99.31	0.04	1.85	2.65	0.60	<0.02	4.54	1.15	4.51	
3206628 Drill Core	1.18	0.22	0.52	0.12	0.02	0.33	<0.01	0.01	1.24	7.52	100.04	0.03	1.63	3.45	0.59	0.03	3.72	2.41	3.10	
3206629 Drill Core	1.67	0.19	0.61	0.12	0.02	0.49	<0.01	<0.01	1.00	5.72	99.87	0.04	1.54	1.04	0.64	0.03	3.20	0.35	2.07	
3206630 Drill Core	0.87	0.32	0.42	0.10	0.01	0.31	<0.01	0.05	4.66	9.91	99.50	0.03	2.27	5.87	0.67	0.02	5.79	3.14	8.21	
3206631 Drill Core	1.81	0.17	0.62	0.15	0.02	0.54	<0.01	0.99	5.96	6.81	100.33	0.04	1.33	5.09	0.61	<0.02	2.57	2.04	9.14	
3206632 Drill Core	1.72	0.16	0.63	0.14	0.02	0.55	<0.01	0.32	1.51	5.23	98.59	0.04	1.50	1.27	0.76	0.06	2.50	0.32	2.84	
3206633 Drill Core	1.65	0.02	0.59	0.11	0.02	0.57	<0.01	0.91	9.35	4.62	99.94	0.03	0.54	5.42	0.46	0.02	0.19	3.72	5.10	
3206634 Drill Core	1.80	0.02	0.53	0.11	0.01	0.68	<0.01	0.63	5.40	4.08	99.40	0.04	0.36	1.98	0.29	0.03	0.12	0.38	4.79	
3206635 Drill Core	1.70	0.03	0.56	0.09	0.02	0.65	<0.01	0.34	2.66	3.71	100.14	0.04	0.72	2.28	0.60	0.03	0.35	1.02	3.77	
3206636 Drill Core	1.19	0.19	0.44	0.06	0.02	0.49	<0.01	0.09	5.60	6.75	98.63	0.03	1.55	4.57	0.67	0.02	3.13	1.40	9.50	
3206637 Drill Core	0.90	0.15	0.32	0.07	<0.01	0.40	<0.01	0.72	23.28	9.88	100.24	0.03	1.18	12.08	0.48	<0.02	2.50	4.33	23.25	
3206638 Drill Core	0.29	0.06	0.08	0.01	<0.01	0.07	<0.01	0.91	>24	14.43	100.16	<0.01	0.32	25.15	0.16	<0.02	0.58	14.37	32.34	53.6
3206639 Drill Core	0.22	0.06	0.05	<0.01	<0.01	0.07	<0.01	2.73	>24	15.22	100.54	<0.01	0.35	28.63	0.15	<0.02	0.76	20.04	25.77	56.8
3206640 Rock	1.46	0.14	0.54	0.14	<0.01	0.06	<0.01	<0.01	0.08	0.84	99.43	0.03	0.03	0.03	0.03	<0.02	<0.08	<0.05	0.57	
3206641 Drill Core	0.66	0.45	0.19	0.02	<0.01	0.37	<0.01	0.47	>24	13.59	100.49	0.01	2.49	11.55	0.59	<0.02	6.96	0.58	32.91	25.0
3206642 Drill Core	0.71	0.46	0.20	0.04	<0.01	0.41	<0.01	0.45	21.27	13.41	99.66	0.01	2.65	10.71	0.56	<0.02	7.63	0.73	29.94	
3206643 Drill Core	0.33	0.35	0.11	<0.01	<0.01	0.12	0.04	0.58	>24	17.67	100.60	0.01	2.22	22.15	0.48	<0.02	6.36	12.35	29.42	44.7
3206644 Drill Core	0.02	0.50	<0.01	<0.01	<0.01	<0.01	0.02	0.42	>24	19.20	99.43	<0.01	2.67	24.06	0.47	<0.02	8.04	9.98	42.24	46.1
3206645 Drill Core	0.02	0.06	<0.01	0.02	<0.01	<0.01	0.07	0.20	>24	16.60	100.10	<0.01	0.35	28.80	0.08	<0.02	0.99	21.18	22.85	>60
3206646 Drill Core	0.19	0.54	0.30	0.08	0.02	0.15	0.02	0.25	>24	16.78	100.47	0.01	2.71	17.76	0.50	<0.02	8.07	5.05	38.13	34.3
3206647 Drill Core	0.36	0.28	0.12	0.05	<0.01	0.23	0.04	0.23	>24	16.81	99.08	0.02	1.83	22.85	0.39	<0.02	5.26	9.82	39.09	44.6
3206648 Drill Core	0.43	1.26	0.85	0.12	0.06	0.50	<0.01	0.01	0.57	21.83	100.15	0.03	7.08	0.54	0.70	<0.02	23.33	<0.05	3.00	
3206649 Drill Core	0.62	1.02	0.97	0.12	0.06	0.69	<0.01	0.01	7.35	18.89	100.19	0.03	5.35	4.04	0.69	<0.02	17.05	<0.05	12.48	
3206650 Drill Core	0.33	0.60	0.11	0.05	<0.01	0.24	<0.01	<0.01	0.04	10.59	100.35	0.06	4.45	0.89	1.73	0.45	8.33	0.31	1.74	
3206651 Drill Core	0.28	0.02	0.07	0.07	<0.01	0.21	<0.01	0.01	0.01	15.31	99.56	0.06	1.52	21.05	1.41	0.10	<0.08	20.78	0.81	



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Project:

MacMillan Pass

Report Date:

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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	
		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
3206652	Drill Core	2.14	45.4	57.9	505.4	2324	2.9	146.3	7.4	140	19.11	325	5.4	<0.5	13	13.3	50.3	<0.5	37	0.04	0.019
3206653	Drill Core	2.48	24.7	218.5	7344.6	13698	11.8	191.6	25.5	63	14.61	521	4.0	1.1	56	55.7	159.3	0.5	50	0.08	0.064
3206654	Drill Core	1.42	24.8	39.4	1221.3	7023	6.4	182.8	20.2	37	7.77	288	4.6	1.2	304	24.6	122.0	<0.5	64	0.07	0.089
3206655	Drill Core	1.59	12.0	49.6	868.0	6877	7.3	97.5	8.5	39	17.72	412	2.6	0.7	221	24.9	132.4	<0.5	29	0.06	0.053
3206656	Drill Core	1.67	12.8	46.2	815.4	24519	6.2	85.1	9.4	53	15.05	348	3.2	0.6	129	78.9	126.1	<0.5	37	0.17	0.098
3206657	Drill Core	2.18	22.5	29.9	1011.3	4410	8.0	127.7	16.3	51	12.63	278	3.6	1.2	66	12.0	170.5	<0.5	37	0.03	0.026
3206658	Drill Core	1.80	2.1	44.4	13613.3	83079	9.0	10.3	2.5	24	1.13	51	1.7	<0.5	18	186.1	5335.9	<0.5	<10	<0.01	0.009
3206659	Drill Core	1.74	27.8	28.3	1046.8	3609	3.8	83.1	7.6	65	6.58	144	2.4	0.8	33	8.5	265.2	<0.5	23	0.04	0.024
3206660	Rock Pulp	0.05	2.4	219.2	17570.1	29476	30.3	23.4	20.3	1722	5.33	80	1.6	6.3	20	86.1	39.6	<0.5	11	5.11	0.054
3206661	Drill Core	1.87	27.2	49.8	6563.3	45313	16.5	127.6	12.7	38	5.12	253	4.0	1.5	61	124.1	130.9	<0.5	47	0.03	0.022
3206662	Drill Core	1.52	26.9	55.8	419.4	1477	4.6	173.6	17.8	44	6.52	257	3.6	2.0	46	4.1	117.2	<0.5	38	0.03	0.018
3206663	Drill Core	1.26	27.4	55.7	1583.5	2450	5.6	140.9	12.1	31	8.03	220	2.9	1.8	24	7.7	136.5	<0.5	33	0.02	0.010
3206664	Drill Core	2.15	6.8	59.4	5350.0	6404	13.1	78.7	8.2	49	23.68	327	1.9	<0.5	40	26.1	158.4	<0.5	22	0.09	0.040
3206665	Drill Core	2.13	5.9	61.1	7291.5	4433	14.8	78.4	7.7	42	22.58	334	1.8	<0.5	43	20.4	179.2	<0.5	20	0.11	0.054
3206666	Drill Core	1.32	11.0	172.3	7999.9	145331	17.2	117.2	15.6	95	6.20	185	3.4	0.7	79	843.5	139.8	<0.5	21	0.15	0.075
3206667	Drill Core	2.07	17.5	45.4	6621.1	2885	10.6	125.6	11.0	48	5.15	240	3.5	0.7	159	12.3	101.6	<0.5	32	0.25	0.120
3206668	Drill Core	2.41	13.2	68.0	6548.1	27956	8.9	80.3	8.6	50	7.40	314	3.0	0.7	165	87.3	119.4	<0.5	30	0.27	0.116
3206669	Drill Core	1.88	18.8	51.7	>40000	11507	52.6	88.7	11.6	51	9.18	283	1.4	<0.5	33	30.1	230.6	<0.5	15	0.07	0.036
3206670	Drill Core	2.24	11.1	47.4	5302.6	653	7.8	96.0	10.4	42	7.66	215	2.2	<0.5	70	1.8	129.2	<0.5	20	0.07	0.031
3206671	Drill Core	1.98	16.4	86.4	5298.3	32304	9.2	95.2	11.1	54	10.73	304	2.7	0.6	50	106.9	150.1	<0.5	25	0.05	0.027
3206672	Drill Core	1.93	26.0	107.1	4968.8	40499	9.1	134.0	9.2	53	12.24	384	7.4	<0.5	98	175.2	161.0	<0.5	83	0.10	0.052
3206673	Drill Core	1.95	146.8	59.7	3734.0	7638	7.0	360.8	8.4	54	7.68	365	23.4	<0.5	76	31.3	129.5	<0.5	392	0.10	0.051
3206674	Drill Core	1.85	29.2	45.8	5716.2	250	9.0	162.8	12.9	57	13.65	367	5.0	<0.5	106	1.1	121.0	<0.5	69	0.15	0.072
3206675	Drill Core	2.51	19.9	64.7	26895.8	4212	34.0	127.5	14.1	64	14.09	343	3.5	<0.5	67	16.9	254.6	<0.5	41	0.10	0.049
3206676	Drill Core	2.46	9.3	110.3	>40000	11174	67.7	132.4	22.0	65	18.46	824	1.3	<0.5	154	65.6	350.4	<0.5	32	0.40	0.183
3206677	Drill Core	1.69	13.9	41.6	27291.8	5294	31.7	175.2	24.8	44	9.93	220	2.7	<0.5	75	30.9	114.1	<0.5	37	0.08	0.058
3206678	Drill Core	2.26	6.4	92.7	20871.4	10795	32.7	124.5	37.6	128	21.60	414	8.9	<0.5	64	91.4	168.7	<0.5	108	0.03	0.053
3206679	Drill Core	2.32	29.1	87.1	6597.1	19544	10.3	96.6	7.9	49	14.40	291	5.3	<0.5	44	105.1	134.4	<0.5	73	0.05	0.034
3206680	Rock	1.08	1.5	50.6	19.8	59	<0.5	3.7	9.1	424	3.02	<5	1.0	2.5	96	<0.5	<0.5	<0.5	105	1.02	0.067
3206681	Drill Core	1.50	37.0	67.8	4496.6	11099	7.9	128.9	21.1	38	16.51	287	70.6	1.0	194	465.9	108.5	<0.5	87	0.03	0.077



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**Project:** MacMillan Pass

**Report Date:** October 17, 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
3206652	Drill Core	<0.5	5.1	<0.01	76	<0.001	0.10	<0.01	0.03	<0.5	2.01	1.4	0.9	22.34	<5	2	51.55	1.99	28.66	0.09	0.06
3206653	Drill Core	1.3	25.3	<0.01	96	<0.001	0.31	<0.01	0.04	<0.5	11.52	1.8	6.1	17.58	<5	3	49.26	7.48	21.33	0.14	0.08
3206654	Drill Core	1.5	34.9	<0.01	433	<0.001	0.41	<0.01	0.04	<0.5	10.74	2.4	6.8	9.17	<5	<2	65.86	7.62	11.51	0.13	0.08
3206655	Drill Core	<0.5	14.5	<0.01	134	<0.001	0.18	<0.01	0.02	<0.5	8.09	0.7	3.6	21.64	<5	<2	52.46	1.29	27.29	0.10	<0.01
3206656	Drill Core	0.8	17.9	<0.01	206	0.001	0.24	<0.01	0.05	<0.5	24.87	0.9	7.4	18.76	<5	4	54.31	3.02	22.93	0.26	0.05
3206657	Drill Core	1.7	22.2	<0.01	265	<0.001	0.19	<0.01	0.04	<0.5	6.74	0.9	4.0	15.08	<5	3	60.84	3.26	19.59	0.05	0.05
3206658	Drill Core	<0.5	2.2	<0.01	215	<0.001	0.03	<0.01	<0.01	<0.5	107.74	<0.5	2.0	5.36	<5	3	82.57	0.31	1.58	0.02	<0.01
3206659	Drill Core	1.3	11.8	<0.01	291	<0.001	0.11	<0.01	0.04	<0.5	8.07	0.7	2.9	7.60	<5	3	79.15	1.78	9.94	0.07	0.05
3206660	Rock Pulp	21.8	13.7	2.74	119	0.016	0.94	0.01	0.68	0.6	1.39	3.1	26.0	4.79	<5	<2	43.86	8.68	8.22	7.40	5.32
3206661	Drill Core	2.6	15.0	<0.01	511	0.004	0.37	<0.01	0.07	<0.5	71.11	1.1	6.7	7.94	<5	5	67.09	7.42	7.58	0.06	0.10
3206662	Drill Core	3.7	17.0	<0.01	724	0.002	0.38	<0.01	0.09	<0.5	5.35	1.2	5.5	7.72	<5	2	68.28	9.24	9.78	0.06	0.13
3206663	Drill Core	3.8	11.8	<0.01	469	<0.001	0.29	<0.01	0.07	<0.5	6.21	1.0	6.5	9.59	<5	4	65.18	8.31	12.21	0.05	0.14
3206664	Drill Core	0.6	28.0	<0.01	103	0.001	0.09	<0.01	0.03	<0.5	14.82	0.7	6.3	29.43	<5	<2	39.05	1.18	37.93	0.15	0.03
3206665	Drill Core	0.6	23.7	<0.01	128	0.001	0.09	<0.01	0.03	<0.5	12.84	0.6	4.8	27.71	<5	2	41.95	1.24	35.54	0.17	0.03
3206666	Drill Core	1.3	20.4	<0.01	315	0.002	0.13	<0.01	0.04	<0.5	307.45	0.8	2.6	13.61	21	6	59.34	2.10	8.57	0.23	0.04
3206667	Drill Core	1.3	20.6	<0.01	837	0.002	0.29	<0.01	0.08	<0.5	9.28	1.0	1.8	6.01	<5	4	76.77	4.92	7.40	0.33	0.10
3206668	Drill Core	1.2	19.2	<0.01	496	0.001	0.25	<0.01	0.07	<0.5	55.68	1.1	4.2	9.84	<5	3	68.78	4.70	10.80	0.39	0.09
3206669	Drill Core	1.0	18.0	<0.01	397	<0.001	0.14	<0.01	0.04	<0.5	24.75	0.5	6.0	11.31	<5	3	69.36	2.08	13.23	0.12	0.04
3206670	Drill Core	1.1	18.0	<0.01	435	<0.001	0.16	<0.01	0.05	<0.5	4.98	0.7	3.1	8.97	<5	2	74.72	3.13	11.49	0.12	0.06
3206671	Drill Core	1.4	16.7	<0.01	317	0.001	0.17	<0.01	0.05	<0.5	67.19	0.7	4.2	13.97	<5	<2	64.37	2.74	15.83	0.08	0.05
3206672	Drill Core	0.6	22.8	<0.01	224	0.002	0.15	<0.01	0.04	<0.5	95.63	0.7	4.8	16.30	<5	7	59.19	2.28	18.53	0.14	0.05
3206673	Drill Core	0.8	36.5	<0.01	482	0.006	0.28	<0.01	0.09	<0.5	23.86	1.2	6.3	9.33	<5	18	67.96	3.79	11.53	0.15	0.12
3206674	Drill Core	<0.5	33.9	<0.01	327	0.002	0.14	<0.01	0.03	<0.5	5.32	1.4	5.0	16.15	<5	4	62.79	1.73	20.98	0.23	0.04
3206675	Drill Core	<0.5	30.5	<0.01	247	0.001	0.11	<0.01	0.03	<0.5	14.66	1.1	5.5	17.00	<5	3	60.59	1.52	21.48	0.16	0.03
3206676	Drill Core	<0.5	39.2	<0.01	151	0.002	0.16	<0.01	0.04	<0.5	37.09	1.0	11.0	22.39	<5	4	45.67	1.96	27.21	0.54	0.04
3206677	Drill Core	<0.5	25.1	<0.01	334	0.001	0.20	<0.01	0.04	<0.5	13.88	1.5	2.7	11.98	<5	3	66.85	3.40	14.57	0.13	0.06
3206678	Drill Core	0.9	31.5	<0.01	54	0.001	0.43	<0.01	0.06	<0.5	30.44	2.8	7.7	26.60	<5	2	32.82	6.89	32.95	0.06	0.07
3206679	Drill Core	0.5	18.1	<0.01	275	0.001	0.13	<0.01	0.04	<0.5	40.30	1.2	6.5	17.97	<5	3	59.08	1.50	21.82	0.09	0.04
3206680	Rock	6.9	5.0	0.84	175	0.187	1.81	0.24	0.29	<0.5	0.07	3.1	<0.5	<0.05	<5	<2	60.90	17.08	6.35	6.27	2.90
3206681	Drill Core	5.8	43.9	<0.01	251	<0.001	0.30	<0.01	0.05	<0.5	21.50	7.5	3.5	20.14	13	3	53.29	3.51	25.56	0.07	0.05



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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
3206652	Drill Core	0.30	0.04	0.10	0.05	<0.01	0.27	<0.01	0.06	0.22	16.70	100.18	0.06	2.08	22.95	1.94	0.12	<0.08	22.64	0.94
3206653	Drill Core	0.96	0.02	0.62	0.18	0.03	1.36	0.02	0.72	1.30	15.02	99.13	0.06	2.03	17.31	1.95	0.07	<0.08	16.26	3.16
3206654	Drill Core	0.84	0.02	0.47	0.21	0.02	0.72	<0.01	0.11	0.70	10.59	99.19	0.07	2.28	9.60	2.09	0.19	<0.08	9.09	1.51
3206655	Drill Core	0.18	0.01	0.17	0.14	<0.01	0.13	<0.01	0.08	0.66	15.73	98.45	0.02	1.40	23.68	1.36	0.05	<0.08	23.13	1.66
3206656	Drill Core	0.49	0.01	0.28	0.23	<0.01	0.40	<0.01	0.07	2.41	14.18	99.36	0.04	1.84	20.58	1.78	0.05	<0.08	19.27	3.92
3206657	Drill Core	0.49	0.02	0.40	0.07	<0.01	0.42	<0.01	0.10	0.45	12.78	98.72	0.04	2.10	16.39	2.02	0.07	<0.08	16.01	1.15
3206658	Drill Core	0.04	0.02	<0.01	0.01	<0.01	0.06	<0.01	1.33	8.32	2.99	99.43	<0.01	0.28	5.87	0.27	<0.02	<0.08	3.84	6.08
3206659	Drill Core	0.33	0.02	0.26	0.06	<0.01	0.23	<0.01	0.10	0.37	6.91	99.37	0.03	1.93	8.16	1.81	0.11	<0.08	7.90	0.78
3206660	Rock Pulp	4.19	0.23	0.26	0.12	<0.01	0.08	0.02	1.80	3.09	14.21	98.60	0.01	3.28	5.16	0.41	<0.02	10.53	2.62	7.61
3206661	Drill Core	1.13	0.02	0.37	0.07	<0.01	1.20	<0.01	0.62	4.51	7.84	99.38	0.06	1.80	8.89	1.76	0.04	<0.08	6.71	6.54
3206662	Drill Core	1.43	0.01	0.51	0.05	0.01	1.57	<0.01	0.04	0.15	8.38	99.94	0.06	2.02	8.17	1.98	0.03	<0.08	7.99	0.53
3206663	Drill Core	1.31	0.01	0.43	0.02	<0.01	1.46	<0.01	0.14	0.24	9.64	99.46	0.06	2.27	10.39	2.25	<0.02	<0.08	10.15	0.73
3206664	Drill Core	0.19	0.02	0.22	0.10	<0.01	0.19	<0.01	0.50	0.64	19.91	100.34	0.02	0.90	31.94	0.88	<0.02	<0.08	31.35	1.77
3206665	Drill Core	0.19	0.01	0.21	0.12	<0.01	0.20	<0.01	0.70	0.44	18.86	99.89	0.02	0.88	29.70	0.85	0.02	<0.08	29.17	1.60
3206666	Drill Core	0.36	0.02	0.63	0.17	<0.01	0.30	<0.01	0.73	14.57	9.40	100.22	0.03	1.65	14.60	1.61	0.03	<0.08	7.73	20.62
3206667	Drill Core	0.77	<0.01	0.36	0.26	0.01	0.88	<0.01	0.60	0.27	6.39	99.33	0.06	2.04	6.22	1.89	0.15	<0.08	5.91	0.92
3206668	Drill Core	0.77	0.02	0.30	0.29	<0.01	0.77	<0.01	0.61	2.82	8.34	99.58	0.05	1.69	10.60	1.59	0.10	<0.08	9.17	4.31
3206669	Drill Core	0.31	0.01	0.13	0.08	<0.01	0.35	<0.01	4.11	1.12	8.17	99.76	0.02	0.98	11.96	0.91	0.05	<0.08	10.77	3.56
3206670	Drill Core	0.49	0.01	0.23	0.09	<0.01	0.53	<0.01	0.49	0.06	8.21	99.76	0.04	2.15	9.53	2.06	0.09	<0.08	9.33	0.60
3206671	Drill Core	0.42	0.01	0.22	0.06	<0.01	0.44	<0.01	0.49	3.19	10.77	99.62	0.04	1.83	14.54	1.77	0.05	<0.08	12.90	4.93
3206672	Drill Core	0.38	0.01	0.17	0.14	<0.01	0.35	<0.01	0.48	4.11	13.35	100.31	0.08	3.01	17.33	2.90	0.10	<0.08	15.26	6.23
3206673	Drill Core	0.71	0.02	0.21	0.12	<0.01	0.51	<0.01	0.35	0.74	12.77	99.29	0.36	6.40	10.10	6.30	0.09	<0.08	9.64	1.39
3206674	Drill Core	0.25	0.02	0.31	0.18	0.01	0.29	<0.01	0.54	0.02	12.51	99.96	0.08	2.05	17.45	2.00	0.05	<0.08	17.20	0.74
3206675	Drill Core	0.24	0.02	0.38	0.13	<0.01	0.25	<0.01	2.78	0.42	12.39	100.73	0.05	1.44	18.19	1.40	0.04	<0.08	17.48	2.12
3206676	Drill Core	0.26	0.02	0.25	0.42	0.01	0.39	<0.01	5.01	1.08	15.57	99.17	0.04	1.19	24.26	1.16	0.02	<0.08	22.88	4.14
3206677	Drill Core	0.44	0.02	0.58	0.16	0.02	0.65	<0.01	2.79	0.51	9.47	100.10	0.06	1.54	12.46	1.50	0.03	<0.08	11.74	2.15
3206678	Drill Core	0.74	0.02	1.16	0.15	0.01	1.50	<0.01	2.07	1.03	18.92	99.10	0.07	0.72	27.74	0.69	<0.02	<0.08	26.84	2.70
3206679	Drill Core	0.24	0.01	0.11	0.09	<0.01	0.21	<0.01	0.61	1.91	13.59	99.88	0.07	2.18	19.55	2.12	0.06	<0.08	18.50	3.14
3206680	Rock	1.52	0.13	0.52	0.14	<0.01	0.07	<0.01	<0.01	0.84	100.10	0.03	0.03	0.04	0.02	<0.02	<0.08	<0.05	0.33	
3206681	Drill Core	0.48	0.01	0.29	0.20	<0.01	0.38	<0.01	0.43	1.10	14.27	100.02	0.05	0.68	21.59	0.62	0.05	<0.08	20.84	2.26





**BUREAU VERITAS** MINERAL LABORATORIES  
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Project:

MacMillan Pass

Report Date:

October 17, 2019

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# CERTIFICATE OF ANALYSIS

WHI19000556.1

	Method Analyte Unit MDL	WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
3206682	Drill Core	2.38	2.7	152.5	6341.6	16550	24.9	31.0	5.6	66	30.07	411	1.5	<0.5	25	113.7	178.3	<0.5	19	0.02	0.017
3206683	Drill Core	2.54	3.6	138.8	6880.9	14207	21.2	43.4	6.0	66	30.15	411	1.6	<0.5	23	108.3	174.5	<0.5	21	0.01	0.012
3206684	Drill Core	1.77	3.8	18.3	2912.1	300	4.2	68.0	7.4	40	8.73	147	1.3	<0.5	13	6.8	48.7	<0.5	14	<0.01	0.007
3206685	Drill Core	2.10	10.2	40.9	3652.4	519	6.4	75.3	7.6	40	18.81	256	3.5	<0.5	19	19.3	102.9	<0.5	30	<0.01	0.008
3206686	Drill Core	2.13	3.9	43.0	1140.1	147	3.6	52.9	8.4	19	16.83	229	6.7	<0.5	37	22.5	87.8	<0.5	26	<0.01	0.016
3206687	Drill Core	2.77	7.2	60.1	5946.2	21323	10.8	57.1	6.9	40	20.03	329	3.6	<0.5	18	157.0	113.5	<0.5	19	<0.01	0.008
3206688	Drill Core	1.99	14.1	51.8	8514.8	13777	14.6	73.0	12.5	29	13.06	381	3.5	<0.5	37	116.6	112.0	<0.5	21	0.02	0.021
3206689	Drill Core	2.25	5.4	58.6	1223.2	24014	4.3	49.3	8.4	35	10.11	237	0.6	<0.5	35	120.5	65.8	<0.5	23	0.02	0.027
3206690	Drill Core	1.83	6.9	30.7	295.6	12485	1.5	41.3	8.4	25	2.32	47	0.7	<0.5	71	76.2	26.5	<0.5	28	0.01	0.038
3206691	Drill Core	2.18	2.8	25.0	841.8	4495	2.6	36.2	8.5	28	9.40	139	<0.5	0.5	27	28.0	43.2	<0.5	19	0.01	0.017
3206692	Drill Core	1.85	2.5	36.1	185.3	5871	1.3	47.3	8.7	31	5.01	98	0.8	<0.5	24	32.0	29.5	<0.5	16	<0.01	0.014
3206693	Drill Core	1.64	2.3	25.2	152.6	2660	0.8	55.4	9.4	52	5.33	100	2.4	<0.5	15	20.7	29.4	<0.5	12	<0.01	0.009
3206694	Drill Core	2.21	1.8	33.7	718.8	1281	2.2	50.6	14.4	29	10.41	178	1.7	<0.5	11	14.0	55.0	<0.5	<10	<0.01	0.005
3206695	Drill Core	2.16	3.6	45.9	694.1	13147	2.4	47.7	10.7	39	9.47	168	3.0	<0.5	13	80.7	51.3	<0.5	12	<0.01	0.005
3206696	Drill Core	2.60	4.6	57.1	3604.3	20746	7.0	49.3	13.6	35	11.61	222	5.6	<0.5	18	152.0	58.1	<0.5	14	<0.01	0.010
3206697	Drill Core	1.79	8.9	49.9	2637.0	15500	4.4	56.7	10.9	39	14.15	231	12.4	<0.5	35	146.8	55.7	<0.5	25	<0.01	0.016
3206698	Drill Core	1.62	4.6	58.0	4777.1	11070	7.7	60.0	11.2	33	21.22	342	3.2	<0.5	25	76.6	75.6	<0.5	25	<0.01	0.014
3206699	Drill Core	2.01	5.1	40.6	4094.5	4835	5.5	57.3	14.4	37	16.47	264	7.1	<0.5	32	57.8	60.9	<0.5	25	<0.01	0.018
3206700	Rock Pulp	0.04	2.4	219.7	18049.0	29787	30.4	25.0	18.7	1731	5.41	78	1.5	6.9	19	84.3	39.6	<0.5	11	5.14	0.053
3206701	Drill Core	2.23	5.8	38.4	1984.0	3556	3.3	77.4	13.6	27	8.57	146	9.7	<0.5	59	66.4	43.6	<0.5	31	<0.01	0.023
3206702	Drill Core	2.11	6.6	34.3	1755.8	3799	2.8	69.5	12.4	31	7.64	129	14.8	<0.5	67	79.2	40.5	<0.5	33	0.01	0.029
3206703	Drill Core	2.25	5.9	33.8	982.6	2134	2.4	73.0	13.9	29	7.56	129	4.3	<0.5	55	20.4	39.7	<0.5	27	<0.01	0.023
3206704	Drill Core	2.71	5.4	82.2	2536.1	9583	7.1	43.1	13.2	41	22.59	278	7.5	<0.5	31	88.0	110.1	<0.5	19	<0.01	0.010
3206705	Drill Core	2.41	3.9	64.5	1183.1	4014	4.1	43.7	14.4	37	17.48	233	3.0	<0.5	12	40.2	80.0	<0.5	11	<0.01	0.004
3206706	Drill Core	1.98	3.2	56.7	831.7	2466	3.7	42.6	11.5	38	22.31	298	2.7	<0.5	13	29.0	73.1	<0.5	14	<0.01	0.004
3206707	Drill Core	1.95	9.0	50.6	551.0	14238	2.6	127.7	16.0	34	10.01	166	7.0	<0.5	28	121.6	55.8	<0.5	19	<0.01	0.012
3206708	Drill Core	2.24	2.6	32.6	397.4	361	1.9	60.1	8.1	25	13.64	136	0.8	<0.5	30	2.8	44.3	<0.5	23	0.02	0.022
3206709	Drill Core	2.58	1.1	65.2	776.0	87	3.4	48.8	7.3	27	23.36	294	<0.5	<0.5	63	1.8	81.8	<0.5	18	0.07	0.053
3206710	Drill Core	2.27	1.7	37.0	347.8	23	2.0	46.5	8.8	17	12.72	143	0.6	<0.5	81	1.4	44.2	<0.5	21	0.07	0.046
3206711	Drill Core	1.67	2.0	33.5	324.1	40	1.8	41.9	7.1	20	10.64	156	<0.5	<0.5	55	<0.5	48.0	<0.5	22	0.02	0.020





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**Project:** MacMillan Pass

**Report Date:** October 17, 2019

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# CERTIFICATE OF ANALYSIS

WHI19000556.1

	Method Analyte Unit MDL	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	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01
3206682	Drill Core	<0.5	5.5	<0.01	132	<0.001	0.09	<0.01	0.02	<0.5	54.91	0.8	4.8	>30	<5	<2	24.30	1.17	45.95	0.04	0.02
3206683	Drill Core	<0.5	14.4	<0.01	156	<0.001	0.11	<0.01	0.03	<0.5	45.61	0.7	4.6	>30	<5	2	24.91	1.28	46.33	0.04	0.04
3206684	Drill Core	<0.5	7.0	<0.01	219	<0.001	0.10	<0.01	0.03	<0.5	1.65	0.8	0.9	10.12	<5	<2	76.81	2.00	13.10	0.02	0.03
3206685	Drill Core	0.5	11.1	<0.01	169	<0.001	0.15	<0.01	0.05	<0.5	2.89	1.5	4.2	22.73	<5	<2	50.69	2.40	29.45	0.02	0.05
3206686	Drill Core	0.9	14.0	<0.01	135	<0.001	0.22	<0.01	0.07	<0.5	2.10	1.8	2.8	20.43	<5	<2	52.66	4.45	26.35	0.03	0.07
3206687	Drill Core	<0.5	9.5	<0.01	149	<0.001	0.09	<0.01	0.03	<0.5	33.64	0.9	4.8	25.25	<5	<2	46.87	1.64	31.49	0.03	0.03
3206688	Drill Core	0.5	11.7	<0.01	248	<0.001	0.14	<0.01	0.04	<0.5	21.88	1.2	5.0	16.24	<5	<2	62.70	2.87	19.99	0.05	0.06
3206689	Drill Core	<0.5	8.5	<0.01	347	<0.001	0.20	<0.01	0.07	<0.5	35.44	0.9	4.0	12.64	<5	<2	67.79	4.12	14.88	0.06	0.07
3206690	Drill Core	0.5	11.9	<0.01	395	0.004	0.31	<0.01	0.10	<0.5	18.72	1.0	1.8	3.22	<5	<2	81.40	7.01	3.51	0.04	0.12
3206691	Drill Core	<0.5	11.2	<0.01	285	<0.001	0.21	<0.01	0.07	<0.5	7.17	0.7	2.6	11.25	<5	<2	71.18	4.14	14.13	0.03	0.08
3206692	Drill Core	<0.5	8.8	<0.01	259	<0.001	0.20	<0.01	0.07	<0.5	10.08	1.4	1.6	6.03	<5	<2	81.81	4.13	7.38	0.03	0.08
3206693	Drill Core	<0.5	8.9	<0.01	202	<0.001	0.14	<0.01	0.05	<0.5	4.96	0.9	1.1	6.21	<5	<2	83.90	2.81	7.98	0.02	0.06
3206694	Drill Core	<0.5	5.5	<0.01	104	<0.001	0.07	<0.01	0.02	<0.5	3.02	<0.5	1.5	12.22	<5	<2	73.40	1.65	15.67	0.02	0.03
3206695	Drill Core	<0.5	6.8	<0.01	106	<0.001	0.08	<0.01	0.03	<0.5	22.39	0.8	1.2	11.53	<5	<2	73.75	1.63	14.00	0.02	0.03
3206696	Drill Core	<0.5	7.7	<0.01	90	<0.001	0.08	<0.01	0.02	<0.5	34.67	0.8	1.2	14.73	<5	<2	67.48	1.66	17.69	0.02	0.02
3206697	Drill Core	1.1	12.4	<0.01	119	<0.001	0.13	<0.01	0.04	<0.5	24.24	1.6	3.0	17.53	5	<2	61.01	2.24	21.63	0.03	0.04
3206698	Drill Core	0.6	11.4	<0.01	118	<0.001	0.12	<0.01	0.04	<0.5	18.30	1.3	3.3	26.19	<5	<2	44.68	1.89	32.63	0.03	0.04
3206699	Drill Core	0.7	12.2	<0.01	117	<0.001	0.14	<0.01	0.04	<0.5	8.65	1.5	2.8	19.82	<5	<2	57.14	2.39	25.46	0.03	0.05
3206700	Rock Pulp	22.1	12.9	2.77	128	0.017	0.93	0.01	0.68	0.8	1.13	3.2	26.8	4.80	<5	<2	43.90	8.71	8.26	7.44	5.37
3206701	Drill Core	1.2	14.1	<0.01	180	<0.001	0.20	<0.01	0.07	<0.5	6.59	2.1	1.5	10.20	<5	<2	72.56	4.38	12.85	0.04	0.07
3206702	Drill Core	1.6	15.3	<0.01	162	<0.001	0.19	<0.01	0.06	<0.5	6.56	2.5	1.4	9.06	<5	2	75.02	4.15	11.44	0.04	0.07
3206703	Drill Core	0.8	12.9	<0.01	172	<0.001	0.20	<0.01	0.07	<0.5	5.10	1.9	1.5	8.79	<5	<2	74.73	4.69	11.21	0.04	0.08
3206704	Drill Core	0.9	9.5	<0.01	103	<0.001	0.12	<0.01	0.03	<0.5	17.18	1.4	6.4	28.02	<5	<2	41.39	1.87	35.41	0.03	0.04
3206705	Drill Core	<0.5	6.6	<0.01	70	<0.001	0.07	<0.01	0.03	<0.5	7.86	0.9	2.6	21.26	<5	<2	56.15	1.27	26.75	0.03	0.02
3206706	Drill Core	<0.5	6.7	<0.01	73	<0.001	0.08	<0.01	0.03	<0.5	5.61	0.6	2.8	27.54	<5	<2	44.17	1.37	35.68	0.03	0.03
3206707	Drill Core	0.7	12.5	<0.01	105	<0.001	0.11	<0.01	0.04	<0.5	20.42	1.7	2.5	12.44	<5	<2	70.81	2.50	14.89	0.03	0.05
3206708	Drill Core	0.5	8.4	<0.01	156	<0.001	0.19	<0.01	0.08	<0.5	1.47	1.0	2.4	16.26	<5	<2	62.38	4.11	20.59	0.05	0.08
3206709	Drill Core	<0.5	13.5	<0.01	154	<0.001	0.26	<0.01	0.09	<0.5	4.19	1.0	6.8	28.34	<5	<2	38.84	3.95	36.57	0.12	0.08
3206710	Drill Core	<0.5	7.7	<0.01	234	<0.001	0.33	<0.01	0.13	<0.5	2.19	1.2	2.7	15.23	<5	<2	57.61	8.05	19.54	0.12	0.17
3206711	Drill Core	<0.5	8.1	<0.01	272	<0.001	0.35	<0.01	0.15	<0.5	4.47	1.1	5.8	12.61	<5	<2	63.55	7.76	16.15	0.05	0.16



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**Project:** MacMillan Pass

**Report Date:** October 17, 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
3206682	Drill Core	0.17	0.02	0.04	0.04	<0.01	0.12	<0.01	0.59	1.61	24.21	98.78	0.02	0.30	39.11	0.28	<0.02	<0.08	38.06	3.17
3206683	Drill Core	0.18	0.02	0.06	0.03	<0.01	0.13	<0.01	0.64	1.37	24.09	99.58	0.02	0.31	37.44	0.29	<0.02	<0.08	36.45	2.98
3206684	Drill Core	0.32	0.01	0.13	0.02	<0.01	0.24	<0.01	0.27	0.03	7.08	100.10	0.03	0.42	10.77	0.38	0.03	<0.08	10.62	0.46
3206685	Drill Core	0.38	0.01	0.12	0.02	<0.01	0.24	<0.01	0.33	0.05	15.85	99.73	0.04	0.76	24.58	0.74	0.02	<0.08	24.28	0.89
3206686	Drill Core	0.69	<0.01	0.22	0.06	<0.01	0.47	<0.01	0.11	0.01	14.25	99.49	0.03	0.32	21.44	0.30	<0.02	<0.08	21.22	0.65
3206687	Drill Core	0.25	0.01	0.08	0.03	<0.01	0.14	<0.01	0.55	2.12	16.63	100.50	0.02	0.40	26.47	0.37	0.02	<0.08	25.22	3.75
3206688	Drill Core	0.44	0.01	0.15	0.06	<0.01	0.26	<0.01	0.80	1.36	11.15	100.35	0.03	0.60	17.37	0.57	0.03	<0.08	16.54	2.50
3206689	Drill Core	0.66	0.01	0.22	0.08	0.01	0.35	<0.01	0.12	2.35	8.95	100.38	0.03	0.53	13.40	0.46	0.06	<0.08	12.22	3.56
3206690	Drill Core	1.12	0.01	0.36	0.11	0.02	0.54	<0.01	0.03	1.24	4.06	99.99	0.05	0.85	3.31	0.68	0.17	<0.08	2.75	1.66
3206691	Drill Core	0.66	0.02	0.21	0.06	0.01	0.33	<0.01	0.08	0.45	8.06	99.62	0.03	0.35	11.65	0.29	0.05	<0.08	11.36	0.87
3206692	Drill Core	0.67	<0.01	0.20	0.04	<0.01	0.32	<0.01	0.03	0.58	4.49	99.97	0.02	0.32	6.34	0.28	0.03	<0.08	6.03	0.94
3206693	Drill Core	0.46	0.02	0.14	0.02	<0.01	0.22	<0.01	0.01	0.26	4.38	100.40	0.01	0.28	6.68	0.24	0.03	<0.08	6.49	0.55
3206694	Drill Core	0.26	0.01	0.08	0.02	<0.01	0.12	<0.01	0.06	0.13	8.14	99.63	<0.01	0.30	12.56	0.26	0.04	<0.08	12.37	0.58
3206695	Drill Core	0.25	0.02	0.06	0.02	<0.01	0.11	<0.01	0.05	1.28	7.57	99.13	0.01	0.35	11.70	0.29	0.05	<0.08	11.09	1.82
3206696	Drill Core	0.25	0.02	0.08	0.02	<0.01	0.09	<0.01	0.34	2.04	9.61	99.90	<0.01	0.33	15.07	0.29	0.03	<0.08	14.01	3.19
3206697	Drill Core	0.38	0.01	0.17	0.05	0.01	0.12	<0.01	0.25	1.52	11.66	99.55	0.02	0.34	17.53	0.31	0.03	<0.08	16.67	2.57
3206698	Drill Core	0.34	0.01	0.14	0.05	0.01	0.09	<0.01	0.46	1.07	17.21	99.00	0.02	0.36	27.68	0.34	0.03	<0.08	26.96	2.16
3206699	Drill Core	0.38	0.01	0.22	0.06	0.01	0.12	<0.01	0.39	0.49	13.35	100.30	0.02	0.36	20.55	0.33	0.02	<0.08	20.13	1.26
3206700	Rock Pulp	4.19	0.24	0.28	0.12	<0.01	0.08	0.01	1.79	3.09	15.40	99.98	<0.01	3.22	5.12	0.46	<0.02	10.13	2.87	6.74
3206701	Drill Core	0.74	0.01	0.35	0.12	0.01	0.21	<0.01	0.18	0.36	7.60	99.66	0.03	0.53	10.91	0.47	0.05	<0.08	10.64	0.80
3206702	Drill Core	0.67	0.01	0.33	0.13	0.01	0.20	<0.01	0.16	0.38	7.03	99.79	0.04	0.72	9.66	0.65	0.06	<0.08	9.39	0.82
3206703	Drill Core	0.78	0.02	0.33	0.14	0.02	0.23	<0.01	0.10	0.22	6.82	99.51	0.03	0.56	9.32	0.52	0.04	<0.08	9.13	0.58
3206704	Drill Core	0.29	0.01	0.13	0.05	<0.01	0.09	<0.01	0.24	0.95	18.50	99.28	0.01	0.32	29.14	0.30	<0.02	<0.08	28.49	1.96
3206705	Drill Core	0.21	0.01	0.07	0.01	<0.01	0.06	<0.01	0.11	0.39	13.79	98.99	<0.01	0.26	21.60	0.23	<0.02	<0.08	21.20	1.19
3206706	Drill Core	0.22	0.01	0.07	0.02	<0.01	0.07	<0.01	0.08	0.25	18.03	100.10	<0.01	0.24	28.42	0.22	<0.02	<0.08	28.03	1.18
3206707	Drill Core	0.42	0.02	0.22	0.06	<0.01	0.13	<0.01	0.06	1.39	8.41	99.38	0.02	0.50	12.50	0.45	0.04	<0.08	11.72	2.35
3206708	Drill Core	0.75	0.02	0.27	0.08	0.01	0.17	<0.01	0.05	0.04	11.14	99.81	0.03	0.33	16.47	0.29	0.04	<0.08	16.29	0.54
3206709	Drill Core	0.71	0.01	0.22	0.14	<0.01	0.13	<0.01	0.07	<0.01	19.15	100.09	0.02	0.30	29.67	0.27	<0.02	<0.08	29.40	0.80
3206710	Drill Core	1.51	0.02	0.43	0.20	0.01	0.30	<0.01	0.04	<0.01	11.42	99.54	0.03	0.43	16.08	0.38	0.04	<0.08	15.92	0.49
3206711	Drill Core	1.49	0.01	0.44	0.13	0.01	0.30	<0.01	0.04	<0.01	9.57	99.80	0.04	0.45	13.30	0.42	0.03	<0.08	13.18	0.36



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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
3206712	Drill Core	2.19	4.1	53.6	1091.6	34	4.5	78.7	7.2	34	30.45	511	<0.5	<0.5	62	<0.5	113.4	<0.5	15	0.06	0.032
3206713	Drill Core	1.73	6.5	20.5	283.2	70	1.4	123.9	14.6	36	8.51	155	0.6	<0.5	56	0.8	43.7	<0.5	22	0.06	0.051
3206714	Drill Core	1.77	7.3	45.0	578.7	1152	2.4	117.0	12.2	37	12.52	221	0.7	<0.5	50	7.8	57.3	<0.5	26	0.02	0.034
3206715	Drill Core	1.89	14.3	45.4	683.4	1769	3.0	115.9	8.1	31	14.34	275	1.3	<0.5	37	11.2	60.6	<0.5	44	0.02	0.027
3206716	Drill Core	1.93	36.1	49.6	2045.3	206	4.0	217.3	20.4	39	15.60	260	5.3	<0.5	79	2.8	77.1	<0.5	88	0.11	0.075
3206717	Drill Core	1.65	70.0	39.6	1102.0	553	2.2	197.9	12.7	44	8.20	168	10.7	<0.5	83	3.3	66.0	<0.5	187	0.09	0.047
3206718	Drill Core	1.64	18.6	31.3	2732.3	3840	2.9	121.3	14.5	33	9.64	154	1.6	<0.5	65	22.2	62.8	<0.5	50	0.06	0.037
3206719	Drill Core	1.58	10.1	35.9	3081.2	8008	3.4	171.3	18.3	37	14.99	218	1.4	<0.5	98	49.6	70.7	<0.5	37	0.10	0.054
3206720	Rock	1.00	2.2	62.6	4.2	43	<0.5	3.9	10.4	419	3.06	<5	1.0	2.5	74	<0.5	<0.5	<0.5	105	1.03	0.060
3206721	Drill Core	2.21	5.6	68.7	5190.0	17596	6.8	261.6	37.7	38	22.64	380	1.2	0.8	78	102.2	105.8	<0.5	25	0.06	0.034
3206722	Drill Core	2.68	4.4	60.9	4790.6	14613	6.5	267.1	31.9	29	25.98	446	0.9	0.8	55	86.8	117.3	<0.5	23	0.04	0.020
3206723	Drill Core	1.86	11.2	56.1	5443.1	4619	7.9	235.7	28.2	37	19.08	285	1.0	<0.5	63	27.7	98.0	<0.5	31	0.05	0.028
3206724	Drill Core	1.84	19.9	37.8	970.4	318	2.6	146.4	11.3	43	14.46	219	2.5	<0.5	68	1.6	66.3	<0.5	35	0.09	0.057
3206725	Drill Core	1.74	22.0	33.1	707.3	104	2.3	164.8	14.8	48	14.20	245	2.5	<0.5	141	0.6	81.6	<0.5	50	0.14	0.079
3206726	Drill Core	1.85	25.9	38.6	716.8	1037	2.1	122.3	17.1	55	10.00	184	2.5	<0.5	103	5.1	79.0	<0.5	58	0.09	0.045
3206727	Drill Core	1.81	40.5	42.9	661.2	118	2.3	142.2	12.0	43	10.12	218	7.5	<0.5	252	0.7	86.7	<0.5	85	0.24	0.122
3206728	Drill Core	1.95	32.6	54.9	1524.6	713	4.3	146.7	15.3	47	11.91	261	6.4	<0.5	238	4.6	120.1	<0.5	93	0.20	0.101
3206729	Drill Core	1.69	43.9	74.5	2833.8	216	7.2	192.2	14.3	44	10.49	206	5.0	<0.5	139	1.6	151.3	<0.5	95	0.12	0.061
3206730	Drill Core	1.82	36.2	63.1	1075.9	1577	5.9	170.4	19.2	56	15.32	330	3.6	<0.5	209	11.2	108.3	<0.5	99	0.19	0.110
3206731	Drill Core	2.04	10.2	93.2	1369.3	6310	10.1	167.1	23.0	47	26.24	581	2.9	<0.5	165	51.4	156.5	<0.5	64	0.14	0.089
3206732	Drill Core	2.09	11.3	63.0	986.5	3921	4.6	79.6	19.8	42	11.92	267	0.8	<0.5	31	23.4	86.5	<0.5	42	0.02	0.030
3206733	Drill Core	1.53	4.2	42.9	621.0	2624	3.3	43.5	12.7	26	8.04	209	2.3	<0.5	53	28.1	66.0	<0.5	31	0.02	0.032
3206734	Drill Core	2.05	3.6	50.9	967.3	2180	5.9	78.3	26.6	34	16.20	422	3.1	<0.5	35	25.0	122.7	<0.5	39	<0.01	0.013
3206735	Drill Core	1.86	1.9	45.2	443.9	40	3.2	56.4	11.7	32	16.62	410	0.7	<0.5	14	1.6	84.9	<0.5	33	<0.01	0.010
3206736	Drill Core	2.32	1.9	27.1	336.9	10	2.6	66.1	11.5	40	18.19	341	2.0	<0.5	16	7.4	75.6	<0.5	36	<0.01	0.007
3206737	Drill Core	1.79	2.3	29.6	420.9	9	3.0	65.8	13.7	31	19.11	326	2.4	<0.5	18	9.9	95.1	<0.5	35	<0.01	0.007
3206738	Drill Core	2.09	1.6	27.0	388.2	9	2.7	100.3	12.6	40	17.87	331	<0.5	<0.5	11	<0.5	87.4	<0.5	32	<0.01	0.009
3206739	Drill Core	1.82	1.8	22.9	391.5	100	2.2	35.3	11.7	29	9.86	249	<0.5	<0.5	13	<0.5	54.2	<0.5	20	<0.01	0.014
3206740	Rock Pulp	0.03	4.3	466.2	34410.2	49291	57.0	17.1	43.2	2206	7.39	145	1.7	6.4	25	171.7	49.0	<0.5	22	4.95	0.047
3206741	Drill Core	1.94	2.4	59.5	516.6	35034	4.3	44.9	11.8	45	12.63	301	<0.5	<0.5	14	164.2	74.7	<0.5	24	<0.01	0.015



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	Method Analyte Unit MDL	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01	0.01
3206712	Drill Core	<0.5	12.5	<0.01	76	<0.001	0.10	<0.01	0.03	<0.5	7.80	0.6	8.6	>30	<5	<2	26.64	1.36	47.19	0.09	0.05
3206713	Drill Core	<0.5	15.8	<0.01	136	<0.001	0.17	<0.01	0.06	<0.5	1.42	0.6	2.2	10.02	<5	<2	75.35	3.29	12.70	0.10	0.07
3206714	Drill Core	<0.5	17.0	<0.01	138	<0.001	0.19	<0.01	0.07	<0.5	3.43	0.5	2.9	14.84	<5	2	63.78	3.81	18.52	0.05	0.07
3206715	Drill Core	<0.5	15.8	<0.01	156	<0.001	0.19	<0.01	0.08	<0.5	4.61	1.1	2.3	17.25	<5	2	61.03	3.52	21.72	0.05	0.07
3206716	Drill Core	0.5	24.9	<0.01	142	0.001	0.17	<0.01	0.06	<0.5	2.04	1.3	3.0	18.73	<5	9	55.81	3.19	23.52	0.16	0.07
3206717	Drill Core	0.9	22.2	<0.01	204	0.002	0.23	<0.01	0.09	<0.5	1.99	1.2	3.7	9.57	<5	10	70.26	3.98	12.16	0.14	0.10
3206718	Drill Core	0.5	19.1	<0.01	151	<0.001	0.18	<0.01	0.07	<0.5	6.30	0.8	2.1	11.49	<5	4	70.48	3.39	14.23	0.10	0.07
3206719	Drill Core	0.5	20.7	<0.01	172	<0.001	0.19	<0.01	0.07	<0.5	12.29	0.9	1.9	18.22	<5	<2	58.23	3.43	22.80	0.16	0.07
3206720	Rock	7.1	6.2	0.87	189	0.191	1.85	0.23	0.36	<0.5	<0.05	3.8	<0.5	<0.05	5	<2	60.58	16.87	6.37	6.25	2.91
3206721	Drill Core	<0.5	31.0	<0.01	141	<0.001	0.16	<0.01	0.05	<0.5	24.12	0.8	3.7	27.96	<5	<2	39.16	3.15	34.46	0.10	0.05
3206722	Drill Core	<0.5	30.1	<0.01	118	<0.001	0.15	<0.01	0.05	<0.5	21.29	1.2	4.1	>30	<5	<2	31.86	2.80	40.26	0.08	0.05
3206723	Drill Core	0.5	27.4	<0.01	148	<0.001	0.17	<0.01	0.06	<0.5	8.51	0.7	5.5	23.01	<5	<2	48.33	3.50	28.39	0.08	0.07
3206724	Drill Core	0.5	15.2	<0.01	105	<0.001	0.14	<0.01	0.05	<0.5	1.94	0.9	3.3	16.90	<5	2	61.63	2.38	21.36	0.13	0.04
3206725	Drill Core	0.7	18.3	<0.01	125	<0.001	0.16	<0.01	0.05	<0.5	1.29	0.6	3.5	16.69	<5	<2	61.78	2.62	20.38	0.19	0.07
3206726	Drill Core	0.6	13.5	<0.01	128	<0.001	0.15	<0.01	0.05	<0.5	2.44	0.7	2.7	11.42	<5	3	71.29	2.46	14.10	0.14	0.05
3206727	Drill Core	0.8	16.9	<0.01	122	0.001	0.16	<0.01	0.05	<0.5	1.40	0.7	3.7	11.56	<5	8	68.98	2.07	14.48	0.35	0.05
3206728	Drill Core	0.8	17.5	<0.01	140	<0.001	0.15	<0.01	0.05	<0.5	2.33	<0.5	3.2	13.82	<5	10	65.72	2.11	17.36	0.28	0.06
3206729	Drill Core	0.6	15.6	<0.01	114	<0.001	0.14	<0.01	0.05	<0.5	1.64	0.8	2.7	12.05	<5	11	68.93	1.95	14.95	0.18	0.04
3206730	Drill Core	0.8	24.3	<0.01	122	<0.001	0.15	<0.01	0.05	<0.5	4.87	0.5	3.6	18.17	<5	6	57.54	2.01	22.68	0.27	0.05
3206731	Drill Core	0.5	24.5	<0.01	83	<0.001	0.12	<0.01	0.03	<0.5	14.33	0.7	4.5	>30	<5	5	32.84	1.58	39.63	0.21	0.02
3206732	Drill Core	<0.5	10.2	<0.01	97	<0.001	0.15	<0.01	0.04	<0.5	7.96	<0.5	2.5	13.86	<5	<2	68.26	2.34	17.54	0.03	0.05
3206733	Drill Core	0.8	10.6	<0.01	151	<0.001	0.24	<0.01	0.09	<0.5	4.79	0.9	2.9	9.39	<5	<2	73.54	4.77	11.42	0.04	0.09
3206734	Drill Core	0.5	13.0	<0.01	110	<0.001	0.18	<0.01	0.06	<0.5	4.64	1.3	3.8	18.88	<5	<2	56.89	4.00	24.00	0.01	0.05
3206735	Drill Core	<0.5	7.6	<0.01	56	<0.001	0.08	<0.01	0.02	<0.5	0.97	<0.5	2.3	19.25	<5	<2	60.59	1.30	24.31	0.01	0.02
3206736	Drill Core	<0.5	7.5	<0.01	65	<0.001	0.09	<0.01	0.03	<0.5	0.84	0.8	1.6	21.61	<5	<2	56.37	1.39	27.52	0.01	0.02
3206737	Drill Core	<0.5	6.7	<0.01	53	<0.001	0.08	<0.01	0.02	<0.5	1.22	0.7	1.3	22.82	<5	<2	54.49	1.17	28.18	0.01	0.02
3206738	Drill Core	<0.5	7.2	<0.01	54	<0.001	0.09	<0.01	0.02	<0.5	0.99	<0.5	1.3	21.08	<5	<2	57.58	1.21	26.54	0.02	0.03
3206739	Drill Core	<0.5	6.2	<0.01	58	<0.001	0.08	<0.01	0.03	<0.5	0.95	<0.5	0.9	11.24	<5	<2	75.65	1.42	13.96	0.02	0.04
3206740	Rock Pulp	23.8	12.5	2.69	241	0.016	0.96	0.01	0.64	0.5	0.80	2.5	46.7	7.90	<5	<2	37.98	7.65	10.83	6.90	4.84
3206741	Drill Core	<0.5	6.0	<0.01	64	<0.001	0.08	<0.01	0.03	<0.5	53.00	<0.5	1.1	15.71	<5	<2	65.04	1.35	17.98	0.01	0.03



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**Project:** MacMillan Pass

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# CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL		LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	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	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05
3206712	Drill Core	0.22	0.02	0.13	0.10	<0.01	0.04	<0.01	0.10	<0.01	24.19	100.15	0.01	0.47	37.80	0.45	<0.02	<0.08	37.46	1.01	
3206713	Drill Core	0.56	0.01	0.35	0.17	0.02	0.14	<0.01	0.04	<0.01	7.44	100.28	0.03	0.80	10.38	0.75	0.05	<0.08	10.27	0.34	
3206714	Drill Core	0.63	0.02	0.41	0.20	0.03	0.16	<0.01	0.06	0.11	10.94	98.88	0.04	1.08	15.48	1.02	0.06	<0.08	15.29	0.56	
3206715	Drill Core	0.66	0.02	0.21	0.08	<0.01	0.16	<0.01	0.07	0.18	12.35	100.23	0.06	1.09	18.32	1.05	0.03	<0.08	18.07	0.76	
3206716	Drill Core	0.54	0.01	0.48	0.21	0.03	0.14	<0.01	0.20	0.02	14.71	99.13	0.13	2.49	20.05	2.43	0.05	<0.08	19.85	0.60	
3206717	Drill Core	0.79	0.02	0.24	0.15	0.02	0.18	<0.01	0.10	0.06	11.46	99.71	0.25	4.80	10.43	4.68	0.11	<0.08	10.30	0.39	
3206718	Drill Core	0.65	0.01	0.27	0.15	0.02	0.16	<0.01	0.26	0.38	9.19	99.50	0.07	1.55	12.23	1.51	0.04	<0.08	11.93	0.91	
3206719	Drill Core	0.62	0.01	0.35	0.17	0.02	0.16	<0.01	0.29	0.78	12.75	100.11	0.05	0.89	19.41	0.86	<0.02	<0.08	18.85	1.68	
3206720	Rock	1.52	0.14	0.52	0.14	<0.01	0.05	<0.01	<0.01	<0.01	0.80	99.45	0.02	0.04	0.03	0.03	<0.02	<0.08	<0.05	0.36	
3206721	Drill Core	0.53	0.01	0.88	0.12	0.05	0.14	<0.01	0.47	1.71	18.52	99.87	0.04	0.56	28.32	0.54	<0.02	<0.08	27.33	2.98	
3206722	Drill Core	0.46	0.01	0.63	0.09	0.03	0.12	<0.01	0.47	1.42	21.22	99.98	0.03	0.40	31.85	0.39	<0.02	<0.08	30.90	2.86	
3206723	Drill Core	0.62	0.01	0.77	0.13	0.05	0.17	<0.01	0.51	0.44	15.75	99.07	0.05	0.86	23.78	0.84	<0.02	<0.08	23.34	1.33	
3206724	Drill Core	0.42	0.01	0.23	0.15	0.02	0.09	<0.01	0.10	0.03	12.35	98.99	0.06	1.35	18.11	1.29	0.05	<0.08	17.91	0.61	
3206725	Drill Core	0.45	0.01	0.30	0.19	0.01	0.11	<0.01	0.08	<0.01	12.20	98.47	0.06	1.68	16.53	1.45	0.22	<0.08	16.38	0.46	
3206726	Drill Core	0.45	0.02	0.21	0.14	<0.01	0.10	<0.01	0.07	0.10	9.37	98.56	0.08	2.00	11.06	1.75	0.25	<0.08	10.92	0.41	
3206727	Drill Core	0.40	0.02	0.10	0.31	0.02	0.08	<0.01	0.07	<0.01	12.00	98.98	0.10	4.53	11.56	3.86	0.66	<0.08	11.43	0.38	
3206728	Drill Core	0.39	0.01	0.09	0.25	0.01	0.09	<0.01	0.15	0.07	12.36	99.02	0.10	3.73	13.80	3.27	0.45	<0.08	13.64	0.49	
3206729	Drill Core	0.39	0.01	0.08	0.16	0.01	0.08	<0.01	0.27	0.02	11.31	98.46	0.12	3.72	12.19	3.05	0.66	<0.08	12.05	0.42	
3206730	Drill Core	0.39	0.01	0.15	0.25	0.02	0.08	<0.01	0.11	0.15	15.53	99.34	0.10	4.20	18.23	3.71	0.48	<0.08	18.01	0.66	
3206731	Drill Core	0.26	0.02	0.17	0.21	0.02	0.05	<0.01	0.13	0.61	22.33	98.29	0.04	1.89	33.26	1.77	0.11	<0.08	32.78	1.44	
3206732	Drill Core	0.43	0.01	0.14	0.07	0.02	0.09	<0.01	0.10	0.39	9.63	99.26	0.04	0.77	14.38	0.70	0.06	<0.08	14.12	0.77	
3206733	Drill Core	0.93	<0.01	0.25	0.09	0.01	0.16	<0.01	0.07	0.25	6.82	98.60	0.03	0.48	9.03	0.39	0.08	<0.08	8.85	0.52	
3206734	Drill Core	0.67	0.01	0.31	0.03	0.01	0.15	<0.01	0.09	0.21	12.82	99.41	0.03	0.27	19.95	0.24	0.02	<0.08	19.72	0.70	
3206735	Drill Core	0.22	0.02	0.05	0.02	<0.01	0.04	<0.01	0.05	<0.01	12.38	99.07	0.01	0.22	19.66	0.20	<0.02	<0.08	19.46	0.59	
3206736	Drill Core	0.24	0.01	0.06	0.02	<0.01	0.05	<0.01	0.04	<0.01	13.91	99.69	0.02	0.21	22.57	0.20	<0.02	<0.08	22.35	0.66	
3206737	Drill Core	0.20	0.01	0.05	0.02	<0.01	0.05	<0.01	0.05	<0.01	14.31	98.61	0.01	0.23	22.89	0.20	<0.02	<0.08	22.63	0.78	
3206738	Drill Core	0.23	0.02	0.05	0.02	<0.01	0.04	<0.01	0.04	<0.01	13.90	99.72	<0.01	0.21	21.70	0.20	<0.02	<0.08	21.48	0.66	
3206739	Drill Core	0.26	0.01	0.09	0.04	<0.01	0.06	<0.01	0.03	<0.01	7.26	98.87	0.01	0.21	11.21	0.20	<0.02	<0.08	11.00	0.62	
3206740	Rock Pulp	3.59	0.29	0.23	0.11	<0.01	0.08	0.04	3.53	4.95	15.95	98.65	<0.01	3.37	7.84	0.65	<0.02	9.92	3.79	12.15	
3206741	Drill Core	0.25	0.01	0.07	0.04	<0.01	0.05	<0.01	0.05	3.41	9.91	99.09	0.01	0.25	16.62	0.21	0.04	<0.08	14.91	5.12	



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**Project:** MacMillan Pass

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# CERTIFICATE OF ANALYSIS

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	Method	WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
3206742	Drill Core	2.13	1.9	67.1	495.1	36014	4.3	47.8	11.6	36	11.22	288	<0.5	<0.5	13	186.0	87.1	<0.5	21	<0.01	0.014
3206743	Drill Core	2.16	2.9	44.1	460.5	2146	5.3	49.5	15.7	35	12.19	263	1.8	<0.5	15	18.9	60.4	<0.5	26	<0.01	0.008
3206744	Drill Core	1.43	2.1	32.4	317.8	10150	2.8	38.4	11.2	44	9.90	202	1.2	<0.5	12	63.3	50.0	<0.5	22	<0.01	0.005
3206745	Drill Core	1.69	2.8	19.6	260.3	211	1.5	39.2	10.4	32	5.73	152	1.1	<0.5	14	3.8	34.1	<0.5	17	<0.01	0.013
3206746	Drill Core	1.64	2.7	41.0	371.3	8021	2.3	39.1	9.8	45	8.80	193	0.7	<0.5	12	50.6	47.5	<0.5	20	<0.01	0.009
3206747	Drill Core	1.48	2.2	39.3	269.5	8907	2.2	68.2	100.1	32	6.19	320	0.9	<0.5	10	55.2	66.2	<0.5	15	<0.01	0.005
3206748	Drill Core	1.70	2.5	56.4	564.3	17686	4.0	69.9	73.5	44	12.24	336	0.6	<0.5	13	93.5	79.2	<0.5	25	<0.01	0.009
3206749	Drill Core	2.19	7.6	57.7	650.4	636	5.8	131.3	26.1	32	19.46	348	1.0	<0.5	62	3.7	98.2	<0.5	47	0.08	0.057
3206750	Drill Core	1.76	5.8	59.6	554.6	1431	6.1	66.4	27.9	50	17.96	268	1.2	<0.5	19	27.5	84.0	<0.5	37	<0.01	0.013
3206751	Drill Core	1.71	9.8	51.2	340.3	2020	1.4	72.6	13.9	41	6.63	140	11.5	<0.5	52	193.6	60.6	<0.5	30	<0.01	0.018
3206752	Drill Core	1.52	8.1	47.3	456.9	27240	3.0	93.4	18.1	54	8.38	232	1.8	<0.5	30	172.2	79.5	<0.5	30	0.02	0.018
3206753	Drill Core	1.74	11.9	54.4	494.5	18208	3.8	133.5	17.7	43	9.94	266	1.0	<0.5	38	117.6	96.1	<0.5	31	0.04	0.028
3206754	Drill Core	1.67	24.2	68.2	475.2	39381	3.7	91.0	13.7	55	5.33	155	1.4	<0.5	34	242.1	81.2	<0.5	37	0.03	0.023
3206755	Drill Core	1.81	13.4	51.1	1496.6	14428	5.8	152.5	29.4	56	13.80	268	1.5	<0.5	56	73.9	113.4	<0.5	44	0.07	0.038
3206756	Drill Core	2.03	15.3	71.5	909.7	10225	6.8	88.0	16.6	42	18.87	389	1.7	<0.5	32	48.9	126.8	<0.5	47	0.03	0.018
3206757	Drill Core	2.07	19.9	34.4	672.9	2851	3.7	156.3	20.1	46	14.49	382	2.0	<0.5	67	13.1	111.5	<0.5	58	0.08	0.039
3206758	Drill Core	1.60	12.0	44.5	398.5	16505	3.3	99.4	15.3	51	8.80	263	1.3	<0.5	79	79.7	87.3	<0.5	31	0.07	0.046
3206759	Drill Core	1.76	4.1	35.8	166.6	5879	3.1	61.1	11.2	64	6.60	158	1.1	<0.5	46	24.7	43.9	<0.5	23	0.04	0.024



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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
3206742	Drill Core	<0.5	6.9	<0.01	52	<0.001	0.08	<0.01	0.02	<0.5	58.33	<0.5	1.2	14.35	<5	<2	67.61	1.30	15.99	0.02	0.02
3206743	Drill Core	<0.5	6.5	<0.01	48	<0.001	0.08	<0.01	0.02	<0.5	5.51	<0.5	1.7	14.10	<5	<2	69.53	1.30	17.73	0.01	0.04
3206744	Drill Core	<0.5	5.8	<0.01	53	<0.001	0.07	<0.01	0.03	<0.5	18.19	<0.5	1.6	11.42	<5	<2	74.35	1.33	13.94	<0.01	0.02
3206745	Drill Core	<0.5	6.1	<0.01	55	<0.001	0.09	<0.01	0.03	<0.5	1.28	0.7	1.0	6.39	<5	<2	84.45	1.53	8.20	0.02	0.03
3206746	Drill Core	<0.5	4.7	<0.01	57	<0.001	0.12	<0.01	0.03	<0.5	13.75	<0.5	1.3	10.28	<5	<2	76.73	1.31	12.57	0.01	0.02
3206747	Drill Core	<0.5	4.6	<0.01	43	<0.001	0.06	<0.01	0.02	<0.5	15.09	<0.5	0.8	7.42	<5	<2	83.19	1.22	8.73	0.01	0.03
3206748	Drill Core	<0.5	7.0	<0.01	82	<0.001	0.08	<0.01	0.03	<0.5	27.60	<0.5	2.1	14.96	<5	<2	68.30	1.30	17.66	0.01	0.04
3206749	Drill Core	<0.5	12.8	<0.01	107	<0.001	0.14	<0.01	0.04	<0.5	3.54	0.9	2.2	23.71	<5	<2	49.88	2.44	29.62	0.13	0.05
3206750	Drill Core	<0.5	10.0	<0.01	56	<0.001	0.09	<0.01	0.03	<0.5	4.72	0.8	2.3	21.48	<5	<2	56.85	1.33	26.40	0.02	0.03
3206751	Drill Core	1.4	11.8	<0.01	72	<0.001	0.12	<0.01	0.03	<0.5	3.47	1.3	2.4	7.63	<5	<2	80.98	1.77	9.28	0.02	0.03
3206752	Drill Core	<0.5	11.9	<0.01	69	<0.001	0.12	<0.01	0.04	<0.5	42.97	0.8	2.4	10.79	<5	<2	73.66	2.01	11.82	0.04	0.03
3206753	Drill Core	<0.5	10.8	<0.01	69	<0.001	0.10	<0.01	0.03	<0.5	30.32	<0.5	5.1	12.25	<5	2	71.63	1.69	14.06	0.07	0.04
3206754	Drill Core	<0.5	11.6	<0.01	112	<0.001	0.14	<0.01	0.06	<0.5	60.09	0.6	2.5	7.63	<5	2	78.02	2.03	7.43	0.05	0.04
3206755	Drill Core	<0.5	13.3	<0.01	74	<0.001	0.11	<0.01	0.04	<0.5	23.19	<0.5	4.0	16.87	<5	2	63.29	1.91	20.40	0.10	0.02
3206756	Drill Core	<0.5	11.5	<0.01	62	<0.001	0.08	<0.01	0.03	<0.5	16.88	0.6	3.5	23.28	<5	2	51.34	1.50	28.40	0.06	0.03
3206757	Drill Core	0.6	16.3	<0.01	85	<0.001	0.13	<0.01	0.04	<0.5	4.93	0.8	4.6	16.69	<5	3	61.89	2.07	21.57	0.14	0.04
3206758	Drill Core	0.7	11.8	<0.01	148	<0.001	0.19	<0.01	0.08	<0.5	23.59	0.7	3.3	10.58	<5	<2	72.33	3.29	12.59	0.13	0.06
3206759	Drill Core	<0.5	7.6	<0.01	149	<0.001	0.20	<0.01	0.08	<0.5	10.27	0.9	1.5	7.53	<5	<2	77.86	4.25	9.40	0.08	0.07





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**Project:** MacMillan Pass

**Report Date:** October 17, 2019

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# CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	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
3206742	Drill Core	0.25	0.01	0.07	0.03	<0.01	0.04	<0.01	0.05	3.52	9.06	98.87	<0.01	0.22	14.84	0.18	0.03	<0.08	13.10	5.23	
3206743	Drill Core	0.23	<0.01	0.06	0.02	<0.01	0.04	<0.01	0.04	0.21	9.26	98.58	0.01	0.22	14.44	0.19	<0.02	<0.08	14.18	0.77	
3206744	Drill Core	0.24	0.01	0.08	0.01	0.01	0.04	<0.01	0.02	0.99	7.58	98.91	0.01	0.34	11.20	0.25	0.09	<0.08	10.68	1.56	
3206745	Drill Core	0.28	0.01	0.10	0.03	<0.01	0.05	<0.01	0.02	0.02	4.47	99.26	0.02	0.38	6.09	0.23	0.11	0.17	5.97	0.37	
3206746	Drill Core	0.24	0.01	0.05	0.02	<0.01	0.05	<0.01	0.03	0.77	6.62	98.68	0.02	0.26	10.18	0.21	0.05	<0.08	9.75	1.29	
3206747	Drill Core	0.23	<0.01	0.11	0.02	<0.01	0.05	<0.01	0.03	0.87	4.92	99.66	0.01	0.36	7.34	0.25	0.10	<0.08	6.88	1.39	
3206748	Drill Core	0.24	0.01	0.14	0.02	<0.01	0.05	<0.01	0.06	1.71	9.35	99.37	0.01	0.27	15.25	0.23	0.04	<0.08	14.38	2.60	
3206749	Drill Core	0.42	0.01	0.42	0.16	0.02	0.09	<0.01	0.08	0.06	15.82	99.24	0.03	0.67	24.71	0.63	0.04	<0.08	24.41	0.92	
3206750	Drill Core	0.23	0.01	0.12	0.03	0.01	0.04	<0.01	0.07	0.14	13.69	99.06	0.02	0.47	20.72	0.44	0.02	<0.08	20.44	0.83	
3206751	Drill Core	0.32	0.01	0.21	0.06	0.01	0.07	<0.01	0.04	0.19	5.32	98.37	0.02	0.56	7.08	0.45	0.10	<0.08	6.91	0.50	
3206752	Drill Core	0.37	0.01	0.31	0.07	0.02	0.06	<0.01	0.04	2.67	7.26	99.08	0.03	0.70	10.44	0.60	0.09	<0.08	9.18	3.78	
3206753	Drill Core	0.31	0.01	0.20	0.07	0.02	0.06	<0.01	0.06	1.76	8.41	98.86	0.03	0.83	12.00	0.74	0.08	<0.08	11.15	2.54	
3206754	Drill Core	0.40	0.02	0.22	0.05	<0.01	0.05	<0.01	0.04	3.77	6.07	99.20	0.05	1.51	7.76	1.37	0.13	<0.08	6.04	5.18	
3206755	Drill Core	0.34	0.01	0.24	0.09	0.02	0.06	<0.01	0.15	1.41	11.66	100.11	0.05	1.00	17.11	0.90	0.09	<0.08	16.31	2.39	
3206756	Drill Core	0.28	<0.01	0.24	0.05	0.01	0.04	<0.01	0.10	0.99	15.60	98.96	0.04	1.06	22.33	0.98	0.07	<0.08	21.71	1.85	
3206757	Drill Core	0.40	0.01	0.22	0.11	0.01	0.07	<0.01	0.07	0.28	12.49	99.47	0.07	1.47	17.91	1.34	0.13	<0.08	17.64	0.81	
3206758	Drill Core	0.62	0.01	0.24	0.11	0.01	0.10	<0.01	0.03	1.62	7.77	99.40	0.04	0.73	10.39	0.60	0.13	<0.08	9.62	2.30	
3206759	Drill Core	0.83	0.01	0.35	0.08	<0.01	0.13	<0.01	0.02	0.58	5.81	99.71	0.03	0.42	7.51	0.28	0.13	<0.08	7.21	0.89	



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## QUALITY CONTROL REPORT

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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
3206646	Drill Core	1.97	<0.5	185.1	2335.9	>200000	14.7	1545.9	21.9	4337	11.30	2043	<0.5	<0.5	23	1626.5	463.1	<0.5	40	0.16	0.025
3206682	Drill Core	2.38	2.7	152.5	6341.6	16550	24.9	31.0	5.6	66	30.07	411	1.5	<0.5	25	113.7	178.3	<0.5	19	0.02	0.017
3206751	Drill Core	1.71	9.8	51.2	340.3	2020	1.4	72.6	13.9	41	6.63	140	11.5	<0.5	52	193.6	60.6	<0.5	30	<0.01	0.018
Pulp Duplicates																					
3206622	Drill Core	2.35	<0.5	583.7	2885.1	>200000	144.4	65.6	26.9	207	4.07	289	<0.5	<0.5	10	2143.6	567.7	<0.5	<10	0.02	<0.001
REP 3206622	QC																				
3206623	Drill Core	1.85	1.1	149.9	1558.5	188015	36.3	58.9	8.9	950	6.61	187	<0.5	0.6	40	608.3	160.5	<0.5	23	0.10	0.035
REP 3206623	QC																				
3206624	Drill Core	2.00	1.6	234.9	417.5	161762	34.1	49.1	16.1	1423	6.43	110	0.9	1.1	60	592.8	105.3	<0.5	47	0.11	0.047
REP 3206624	QC																				
3206638	Drill Core	2.64	<0.5	163.6	9752.9	>200000	88.3	25.3	8.9	343	1.94	47	<0.5	<0.5	7	4083.1	136.7	<0.5	<10	0.02	<0.001
REP 3206638	QC																				
3206648	Drill Core	1.81	<0.5	43.3	106.9	5428	0.9	231.2	25.8	9894	26.86	351	0.7	0.6	25	37.1	41.6	<0.5	91	0.37	0.048
REP 3206648	QC																				
3206649	Drill Core	2.44	1.4	120.9	193.0	71055	4.0	212.4	26.8	8335	21.10	307	0.9	<0.5	35	438.3	35.1	<0.5	110	0.31	0.049
REP 3206649	QC																				
3206652	Drill Core	2.14	45.4	57.9	505.4	2324	2.9	146.3	7.4	140	19.11	325	5.4	<0.5	13	13.3	50.3	<0.5	37	0.04	0.019
REP 3206652	QC		47.4	58.2	513.2	2312	2.8	148.7	7.3	129	18.96	320	5.3	<0.5	14	13.9	50.0	<0.5	37	0.04	0.018
3206653	Drill Core	2.48	24.7	218.5	7344.6	13698	11.8	191.6	25.5	63	14.61	521	4.0	1.1	56	55.7	159.3	0.5	50	0.08	0.064
REP 3206653	QC																				
3206656	Drill Core	1.67	12.8	46.2	815.4	24519	6.2	85.1	9.4	53	15.05	348	3.2	0.6	129	78.9	126.1	<0.5	37	0.17	0.098
REP 3206656	QC																				
3206672	Drill Core	1.93	26.0	107.1	4968.8	40499	9.1	134.0	9.2	53	12.24	384	7.4	<0.5	98	175.2	161.0	<0.5	83	0.10	0.052
REP 3206672	QC																				
3206683	Drill Core	2.54	3.6	138.8	6880.9	14207	21.2	43.4	6.0	66	30.15	411	1.6	<0.5	23	108.3	174.5	<0.5	21	0.01	0.012
REP 3206683	QC																				
3206687	Drill Core	2.77	7.2	60.1	5946.2	21323	10.8	57.1	6.9	40	20.03	329	3.6	<0.5	18	157.0	113.5	<0.5	19	<0.01	0.008
REP 3206687	QC		7.8	65.1	5921.5	21603	11.5	57.5	7.0	43	20.12	351	3.8	<0.5	20	162.8	119.3	<0.5	20	<0.01	0.008
3206690	Drill Core	1.83	6.9	30.7	295.6	12485	1.5	41.3	8.4	25	2.32	47	0.7	<0.5	71	76.2	26.5	<0.5	28	0.01	0.038



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**Project:**

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## QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	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
3206646	Drill Core	<0.5	50.2	0.36	199	0.001	0.21	<0.01	0.01	<0.5	218.89	4.3	5.1	9.76	25	5	19.20	1.53	16.33	0.24	0.72
3206682	Drill Core	<0.5	5.5	<0.01	132	<0.001	0.09	<0.01	0.02	<0.5	54.91	0.8	4.8	>30	<5	<2	24.30	1.17	45.95	0.04	0.02
3206751	Drill Core	1.4	11.8	<0.01	72	<0.001	0.12	<0.01	0.03	<0.5	3.47	1.3	2.4	7.63	<5	<2	80.98	1.77	9.28	0.02	0.03
Pulp Duplicates																					
3206622	Drill Core	<0.5	<0.5	0.03	60	<0.001	0.06	<0.01	<0.01	<0.5	595.61	<0.5	7.5	25.30	105	<2	11.00	0.38	5.54	0.05	0.05
REP 3206622	QC																				
3206623	Drill Core	0.5	11.8	0.10	81	<0.001	0.14	<0.01	0.03	<0.5	205.86	2.1	4.2	12.84	19	2	54.45	1.67	9.08	0.18	0.22
REP 3206623	QC																				
3206624	Drill Core	1.3	20.8	0.19	404	0.002	0.61	<0.01	0.07	<0.5	179.50	4.3	1.6	9.84	26	3	55.62	4.37	8.88	0.17	0.33
REP 3206624	QC																55.59	4.33	8.90	0.18	0.34
3206638	Drill Core	<0.5	6.1	0.05	96	<0.001	0.08	<0.01	0.02	<0.5	456.57	4.7	2.4	25.70	91	15	13.07	1.41	2.60	0.06	0.11
REP 3206638	QC																				
3206648	Drill Core	<0.5	177.4	0.90	525	0.002	0.27	<0.01	0.04	<0.5	3.61	15.7	<0.5	0.62	<5	<2	27.24	3.30	41.62	0.57	1.56
REP 3206648	QC																				
3206649	Drill Core	0.7	141.1	0.71	662	0.002	0.59	<0.01	0.04	<0.5	34.82	11.9	0.6	4.21	12	<2	29.53	5.19	32.02	0.46	1.24
REP 3206649	QC																				
3206652	Drill Core	<0.5	5.1	<0.01	76	<0.001	0.10	<0.01	0.03	<0.5	2.01	1.4	0.9	22.34	<5	2	51.55	1.99	28.66	0.09	0.06
REP 3206652	QC	<0.5	5.9	<0.01	86	<0.001	0.10	<0.01	0.02	<0.5	2.03	1.3	1.0	22.17	<5	3					
3206653	Drill Core	1.3	25.3	<0.01	96	<0.001	0.31	<0.01	0.04	<0.5	11.52	1.8	6.1	17.58	<5	3	49.26	7.48	21.33	0.14	0.08
REP 3206653	QC																49.22	7.50	21.34	0.14	0.09
3206656	Drill Core	0.8	17.9	<0.01	206	0.001	0.24	<0.01	0.05	<0.5	24.87	0.9	7.4	18.76	<5	4	54.31	3.02	22.93	0.26	0.05
REP 3206656	QC																54.57	2.99	23.03	0.26	0.04
3206672	Drill Core	0.6	22.8	<0.01	224	0.002	0.15	<0.01	0.04	<0.5	95.63	0.7	4.8	16.30	<5	7	59.19	2.28	18.53	0.14	0.05
REP 3206672	QC																				
3206683	Drill Core	<0.5	14.4	<0.01	156	<0.001	0.11	<0.01	0.03	<0.5	45.61	0.7	4.6	>30	<5	2	24.91	1.28	46.33	0.04	0.04
REP 3206683	QC																				
3206687	Drill Core	<0.5	9.5	<0.01	149	<0.001	0.09	<0.01	0.03	<0.5	33.64	0.9	4.8	25.25	<5	<2	46.87	1.64	31.49	0.03	0.03
REP 3206687	QC	<0.5	11.1	<0.01	179	<0.001	0.10	<0.01	0.03	<0.5	35.50	1.5	4.9	25.66	<5	<2	46.88	1.65	31.39	0.02	0.04
3206690	Drill Core	0.5	11.9	<0.01	395	0.004	0.31	<0.01	0.10	<0.5	18.72	1.0	1.8	3.22	<5	<2	81.40	7.01	3.51	0.04	0.12



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## QUALITY CONTROL REPORT

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	Method	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		
3206646	Drill Core	0.19	0.54	0.30	0.08	0.02	0.15	0.02	0.25	>24	16.78	100.47	0.01	2.71	17.76	0.50	<0.02	8.07	5.05	38.13	34.3		
3206682	Drill Core	0.17	0.02	0.04	0.04	<0.01	0.12	<0.01	0.59	1.61	24.21	98.78	0.02	0.30	39.11	0.28	<0.02	<0.08	38.06	3.17			
3206751	Drill Core	0.32	0.01	0.21	0.06	0.01	0.07	<0.01	0.04	0.19	5.32	98.37	0.02	0.56	7.08	0.45	0.10	<0.08	6.91	0.50			
Pulp Duplicates																							
3206622	Drill Core	0.06	0.03	0.01	0.01	<0.01	<0.01	0.04	0.29	>24	15.30	100.44	<0.01	0.19	29.07	0.08	<0.02	0.36	22.25	20.47	54.6		
REP 3206622	QC																					54.3	
3206623	Drill Core	0.29	0.13	0.20	0.10	<0.01	0.06	<0.01	0.16	19.54	9.01	100.02	0.02	0.96	12.97	0.36	<0.02	2.15	4.52	25.35			
REP 3206623	QC													0.95	12.84								
3206624	Drill Core	0.56	0.17	0.33	0.10	<0.01	0.19	0.01	0.04	16.87	8.48	100.39	0.03	1.21	9.84	0.46	<0.02	2.68	2.58	21.76			
REP 3206624	QC	0.57	0.17	0.33	0.10	0.01	0.17	0.01	0.04	16.80	8.48	100.26	0.02										
3206638	Drill Core	0.29	0.06	0.08	0.01	<0.01	0.07	<0.01	0.91	>24	14.43	100.16	<0.01	0.32	25.15	0.16	<0.02	0.58	14.37	32.34	53.6		
REP 3206638	QC																	<0.02					
3206648	Drill Core	0.43	1.26	0.85	0.12	0.06	0.50	<0.01	0.01	0.57	21.83	100.15	0.03	7.08	0.54	0.70	<0.02	23.33	<0.05	3.00			
REP 3206648	QC																		23.22				
3206649	Drill Core	0.62	1.02	0.97	0.12	0.06	0.69	<0.01	0.01	7.35	18.89	100.19	0.03	5.35	4.04	0.69	<0.02	17.05	<0.05	12.48			
REP 3206649	QC																				12.47		
3206652	Drill Core	0.30	0.04	0.10	0.05	<0.01	0.27	<0.01	0.06	0.22	16.70	100.18	0.06	2.08	22.95	1.94	0.12	<0.08	22.64	0.94			
REP 3206652	QC																						
3206653	Drill Core	0.96	0.02	0.62	0.18	0.03	1.36	0.02	0.72	1.30	15.02	99.13	0.06	2.03	17.31	1.95	0.07	<0.08	16.26	3.16			
REP 3206653	QC	0.95	0.02	0.63	0.17	0.02	1.35	0.02	0.70	1.30	15.02	99.06	0.06									0.08	
3206656	Drill Core	0.49	0.01	0.28	0.23	<0.01	0.40	<0.01	0.07	2.41	14.18	99.36	0.04	1.84	20.58	1.78	0.05	<0.08	19.27	3.92			
REP 3206656	QC	0.50	0.02	0.29	0.23	<0.01	0.39	<0.01	0.08	2.43	14.18	99.69	0.04	1.84	20.48								
3206672	Drill Core	0.38	0.01	0.17	0.14	<0.01	0.35	<0.01	0.48	4.11	13.35	100.31	0.08	3.01	17.33	2.90	0.10	<0.08	15.26	6.23			
REP 3206672	QC																	0.12					
3206683	Drill Core	0.18	0.02	0.06	0.03	<0.01	0.13	<0.01	0.64	1.37	24.09	99.58	0.02	0.31	37.44	0.29	<0.02	<0.08	36.45	2.98			
REP 3206683	QC																		<0.08				3.02
3206687	Drill Core	0.25	0.01	0.08	0.03	<0.01	0.14	<0.01	0.55	2.12	16.63	100.50	0.02	0.40	26.47	0.37	0.02	<0.08	25.22	3.75			
REP 3206687	QC	0.25	0.02	0.08	0.03	<0.01	0.16	<0.01	0.55	2.10	16.63	100.40	0.02										
3206690	Drill Core	1.12	0.01	0.36	0.11	0.02	0.54	<0.01	0.03	1.24	4.06	99.99	0.05	0.85	3.31	0.68	0.17	<0.08	2.75	1.66			



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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 3206690	QC																				
3206691	Drill Core	2.18	2.8	25.0	841.8	4495	2.6	36.2	8.5	28	9.40	139	<0.5	0.5	27	28.0	43.2	<0.5	19	0.01	0.017
REP 3206691	QC																				
3206707	Drill Core	1.95	9.0	50.6	551.0	14238	2.6	127.7	16.0	34	10.01	166	7.0	<0.5	28	121.6	55.8	<0.5	19	<0.01	0.012
REP 3206707	QC																				
3206718	Drill Core	1.64	18.6	31.3	2732.3	3840	2.9	121.3	14.5	33	9.64	154	1.6	<0.5	65	22.2	62.8	<0.5	50	0.06	0.037
REP 3206718	QC																				
3206721	Drill Core	2.21	5.6	68.7	5190.0	17596	6.8	261.6	37.7	38	22.64	380	1.2	0.8	78	102.2	105.8	<0.5	25	0.06	0.034
REP 3206721	QC																				
REP 3206722	QC		4.3	62.9	4961.8	14508	6.5	277.0	33.4	29	26.28	446	1.0	<0.5	57	88.4	115.0	<0.5	24	0.04	0.022
3206724	Drill Core	1.84	19.9	37.8	970.4	318	2.6	146.4	11.3	43	14.46	219	2.5	<0.5	68	1.6	66.3	<0.5	35	0.09	0.057
REP 3206724	QC																				
3206726	Drill Core	1.85	25.9	38.6	716.8	1037	2.1	122.3	17.1	55	10.00	184	2.5	<0.5	103	5.1	79.0	<0.5	58	0.09	0.045
REP 3206726	QC																				
3206738	Drill Core	2.09	1.6	27.0	388.2	9	2.7	100.3	12.6	40	17.87	331	<0.5	<0.5	11	<0.5	87.4	<0.5	32	<0.01	0.009
REP 3206738	QC																				
3206742	Drill Core	2.13	1.9	67.1	495.1	36014	4.3	47.8	11.6	36	11.22	288	<0.5	<0.5	13	186.0	87.1	<0.5	21	<0.01	0.014
REP 3206742	QC																				
3206753	Drill Core	1.74	11.9	54.4	494.5	18208	3.8	133.5	17.7	43	9.94	266	1.0	<0.5	38	117.6	96.1	<0.5	31	0.04	0.028
REP 3206753	QC																				
3206755	Drill Core	1.81	13.4	51.1	1496.6	14428	5.8	152.5	29.4	56	13.80	268	1.5	<0.5	56	73.9	113.4	<0.5	44	0.07	0.038
REP 3206755	QC																				
REP 3206756	QC		14.8	68.5	937.3	10175	6.8	87.4	17.4	43	19.01	384	1.6	<0.5	32	47.9	126.1	<0.5	46	0.03	0.017
3206759	Drill Core	1.76	4.1	35.8	166.6	5879	3.1	61.1	11.2	64	6.60	158	1.1	<0.5	46	24.7	43.9	<0.5	23	0.04	0.024
REP 3206759	QC																				
Core Reject Duplicates																					
3206654	Drill Core	1.42	24.8	39.4	1221.3	7023	6.4	182.8	20.2	37	7.77	288	4.6	1.2	304	24.6	122.0	<0.5	64	0.07	0.089
DUP 3206654	QC		25.3	38.0	1209.1	7212	6.4	175.4	21.8	39	8.14	300	4.9	1.3	326	24.6	125.1	<0.5	64	0.07	0.094
3206688	Drill Core	1.99	14.1	51.8	8514.8	13777	14.6	73.0	12.5	29	13.06	381	3.5	<0.5	37	116.6	112.0	<0.5	21	0.02	0.021



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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 3206690	QC																81.32	6.97	3.49	0.04	0.12
3206691	Drill Core	<0.5	11.2	<0.01	285	<0.001	0.21	<0.01	0.07	<0.5	7.17	0.7	2.6	11.25	<5	<2	71.18	4.14	14.13	0.03	0.08
REP 3206691	QC																				
3206707	Drill Core	0.7	12.5	<0.01	105	<0.001	0.11	<0.01	0.04	<0.5	20.42	1.7	2.5	12.44	<5	<2	70.81	2.50	14.89	0.03	0.05
REP 3206707	QC																				
3206718	Drill Core	0.5	19.1	<0.01	151	<0.001	0.18	<0.01	0.07	<0.5	6.30	0.8	2.1	11.49	<5	4	70.48	3.39	14.23	0.10	0.07
REP 3206718	QC																				
3206721	Drill Core	<0.5	31.0	<0.01	141	<0.001	0.16	<0.01	0.05	<0.5	24.12	0.8	3.7	27.96	<5	<2	39.16	3.15	34.46	0.10	0.05
REP 3206721	QC																39.15	3.16	34.30	0.11	0.05
REP 3206722	QC	<0.5	30.4	<0.01	122	0.001	0.15	<0.01	0.05	<0.5	21.04	0.9	4.0	>30	<5	<2					
3206724	Drill Core	0.5	15.2	<0.01	105	<0.001	0.14	<0.01	0.05	<0.5	1.94	0.9	3.3	16.90	<5	2	61.63	2.38	21.36	0.13	0.04
REP 3206724	QC																61.94	2.43	21.59	0.13	0.05
3206726	Drill Core	0.6	13.5	<0.01	128	<0.001	0.15	<0.01	0.05	<0.5	2.44	0.7	2.7	11.42	<5	3	71.29	2.46	14.10	0.14	0.05
REP 3206726	QC																				
3206738	Drill Core	<0.5	7.2	<0.01	54	<0.001	0.09	<0.01	0.02	<0.5	0.99	<0.5	1.3	21.08	<5	<2	57.58	1.21	26.54	0.02	0.03
REP 3206738	QC																				
3206742	Drill Core	<0.5	6.9	<0.01	52	<0.001	0.08	<0.01	0.02	<0.5	58.33	<0.5	1.2	14.35	<5	<2	67.61	1.30	15.99	0.02	0.02
REP 3206742	QC																				
3206753	Drill Core	<0.5	10.8	<0.01	69	<0.001	0.10	<0.01	0.03	<0.5	30.32	<0.5	5.1	12.25	<5	2	71.63	1.69	14.06	0.07	0.04
REP 3206753	QC																				
3206755	Drill Core	<0.5	13.3	<0.01	74	<0.001	0.11	<0.01	0.04	<0.5	23.19	<0.5	4.0	16.87	<5	2	63.29	1.91	20.40	0.10	0.02
REP 3206755	QC																62.51	1.89	20.47	0.10	0.02
REP 3206756	QC	<0.5	10.7	<0.01	64	<0.001	0.08	<0.01	0.03	<0.5	15.95	<0.5	3.5	23.11	<5	2					
3206759	Drill Core	<0.5	7.6	<0.01	149	<0.001	0.20	<0.01	0.08	<0.5	10.27	0.9	1.5	7.53	<5	<2	77.86	4.25	9.40	0.08	0.07
REP 3206759	QC																77.75	4.27	9.34	0.07	0.08
Core Reject Duplicates																					
3206654	Drill Core	1.5	34.9	<0.01	433	<0.001	0.41	<0.01	0.04	<0.5	10.74	2.4	6.8	9.17	<5	<2	65.86	7.62	11.51	0.13	0.08
DUP 3206654	QC	1.6	35.7	<0.01	416	<0.001	0.40	<0.01	0.04	<0.5	10.99	2.2	7.0	9.60	<5	<2	66.39	7.67	11.60	0.12	0.10
3206688	Drill Core	0.5	11.7	<0.01	248	<0.001	0.14	<0.01	0.04	<0.5	21.88	1.2	5.0	16.24	<5	<2	62.70	2.87	19.99	0.05	0.06



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## QUALITY CONTROL REPORT

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		LF725	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
REP 3206690	QC	1.12	<0.01	0.39	0.12	0.02	0.53	<0.01	0.04	1.22	4.06	99.87	0.05								
3206691	Drill Core	0.66	0.02	0.21	0.06	0.01	0.33	<0.01	0.08	0.45	8.06	99.62	0.03	0.35	11.65	0.29	0.05	<0.08	11.36	0.87	
REP 3206691	QC													0.36	12.16						
3206707	Drill Core	0.42	0.02	0.22	0.06	<0.01	0.13	<0.01	0.06	1.39	8.41	99.38	0.02	0.50	12.50	0.45	0.04	<0.08	11.72	2.35	
REP 3206707	QC																	0.05			
3206718	Drill Core	0.65	0.01	0.27	0.15	0.02	0.16	<0.01	0.26	0.38	9.19	99.50	0.07	1.55	12.23	1.51	0.04	<0.08	11.93	0.91	
REP 3206718	QC																	<0.08		0.96	
3206721	Drill Core	0.53	0.01	0.88	0.12	0.05	0.14	<0.01	0.47	1.71	18.52	99.87	0.04	0.56	28.32	0.54	<0.02	<0.08	27.33	2.98	
REP 3206721	QC	0.52	0.02	0.87	0.13	0.04	0.13	<0.01	0.48	1.71	18.52	99.70	0.03								
REP 3206722	QC																				
3206724	Drill Core	0.42	0.01	0.23	0.15	0.02	0.09	<0.01	0.10	0.03	12.35	98.99	0.06	1.35	18.11	1.29	0.05	<0.08	17.91	0.61	
REP 3206724	QC	0.43	0.01	0.23	0.15	0.02	0.09	<0.01	0.09	0.03	12.35	99.60	0.06								
3206726	Drill Core	0.45	0.02	0.21	0.14	<0.01	0.10	<0.01	0.07	0.10	9.37	98.56	0.08	2.00	11.06	1.75	0.25	<0.08	10.92	0.41	
REP 3206726	QC													2.03	11.29						
3206738	Drill Core	0.23	0.02	0.05	0.02	<0.01	0.04	<0.01	0.04	<0.01	13.90	99.72	<0.01	0.21	21.70	0.20	<0.02	<0.08	21.48	0.66	
REP 3206738	QC																			0.62	
3206742	Drill Core	0.25	0.01	0.07	0.03	<0.01	0.04	<0.01	0.05	3.52	9.06	98.87	<0.01	0.22	14.84	0.18	0.03	<0.08	13.10	5.23	
REP 3206742	QC																	0.03			
3206753	Drill Core	0.31	0.01	0.20	0.07	0.02	0.06	<0.01	0.06	1.76	8.41	98.86	0.03	0.83	12.00	0.74	0.08	<0.08	11.15	2.54	
REP 3206753	QC																	<0.08		2.63	
3206755	Drill Core	0.34	0.01	0.24	0.09	0.02	0.06	<0.01	0.15	1.41	11.66	100.11	0.05	1.00	17.11	0.90	0.09	<0.08	16.31	2.39	
REP 3206755	QC	0.33	0.02	0.25	0.09	0.02	0.05	<0.01	0.15	1.42	11.66	99.36	0.05								
REP 3206756	QC																				
3206759	Drill Core	0.83	0.01	0.35	0.08	<0.01	0.13	<0.01	0.02	0.58	5.81	99.71	0.03	0.42	7.51	0.28	0.13	<0.08	7.21	0.89	
REP 3206759	QC	0.83	0.01	0.33	0.07	0.01	0.12	<0.01	0.01	0.58	5.81	99.50	0.03								
Core Reject Duplicates																					
3206654	Drill Core	0.84	0.02	0.47	0.21	0.02	0.72	<0.01	0.11	0.70	10.59	99.19	0.07	2.28	9.60	2.09	0.19	<0.08	9.09	1.51	
DUP 3206654	QC	0.85	0.02	0.52	0.23	0.02	0.73	<0.01	0.12	0.69	10.58	99.96	0.07	2.25	9.20	2.15	0.10	<0.08	8.71	1.49	
3206688	Drill Core	0.44	0.01	0.15	0.06	<0.01	0.26	<0.01	0.80	1.36	11.15	100.35	0.03	0.60	17.37	0.57	0.03	<0.08	16.54	2.50	





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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
DUP 3206688	QC		14.2	56.2	8902.6	13826	15.2	71.4	14.0	32	13.39	396	3.5	<0.5	36	118.4	111.9	<0.5	20	0.02	0.020
3206722	Drill Core	2.68	4.4	60.9	4790.6	14613	6.5	267.1	31.9	29	25.98	446	0.9	0.8	55	86.8	117.3	<0.5	23	0.04	0.020
DUP 3206722	QC		4.6	65.4	4887.0	14039	6.9	300.4	35.2	33	26.20	476	1.0	0.5	59	87.8	123.5	<0.5	23	0.04	0.021
3206756	Drill Core	2.03	15.3	71.5	909.7	10225	6.8	88.0	16.6	42	18.87	389	1.7	<0.5	32	48.9	126.8	<0.5	47	0.03	0.018
DUP 3206756	QC		15.0	72.8	944.6	10248	6.9	87.3	16.5	42	19.12	384	1.6	<0.5	32	47.7	126.8	<0.5	48	0.03	0.015
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 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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		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
DUP 3206688	QC	0.5	12.4	<0.01	226	<0.001	0.14	<0.01	0.05	<0.5	22.79	0.9	5.1	16.38	<5	2	62.45	2.79	19.93	0.04	0.04
3206722	Drill Core	<0.5	30.1	<0.01	118	<0.001	0.15	<0.01	0.05	<0.5	21.29	1.2	4.1	>30	<5	<2	31.86	2.80	40.26	0.08	0.05
DUP 3206722	QC	<0.5	32.1	<0.01	134	0.001	0.15	<0.01	0.05	<0.5	21.39	0.7	4.2	>30	<5	<2	31.08	2.76	40.09	0.06	0.06
3206756	Drill Core	<0.5	11.5	<0.01	62	<0.001	0.08	<0.01	0.03	<0.5	16.88	0.6	3.5	23.28	<5	2	51.34	1.50	28.40	0.06	0.03
DUP 3206756	QC	<0.5	11.0	<0.01	64	<0.001	0.09	<0.01	0.03	<0.5	16.57	<0.5	3.5	23.53	<5	2	50.50	1.49	28.95	0.07	0.03
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 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 GGC-10	Standard																				
STD GS311-1	Standard																				



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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	
DUP 3206688	QC	0.43	0.02	0.15	0.06	0.01	0.25	<0.01	0.82	1.35	11.10	99.90	0.02	0.56	17.00	0.52	0.04	<0.08	16.18	2.48		
3206722	Drill Core	0.46	0.01	0.63	0.09	0.03	0.12	<0.01	0.47	1.42	21.22	99.98	0.03	0.40	31.85	0.39	<0.02	<0.08	30.90	2.86		
DUP 3206722	QC	0.45	0.01	0.65	0.09	0.04	0.11	<0.01	0.46	1.36	21.34	99.01	0.03	0.40	32.71	0.39	<0.02	<0.08	31.79	2.77		
3206756	Drill Core	0.28	<0.01	0.24	0.05	0.01	0.04	<0.01	0.10	0.99	15.60	98.96	0.04	1.06	22.33	0.98	0.07	<0.08	21.71	1.85		
DUP 3206756	QC	0.28	0.02	0.23	0.05	0.01	0.05	<0.01	0.09	0.99	15.97	99.03	0.05	1.01	24.15	0.93	0.07	<0.08	23.56	1.76		
Reference Materials																						
STD COO1	Standard																		2.34			
STD COO1	Standard																		2.37			
STD COO1	Standard																		2.31			
STD COO1	Standard																		2.36			
STD COO2	Standard																		3.34			
STD COO2	Standard																		3.45			
STD COO2	Standard																		3.37			
STD COO2	Standard																		3.39			
STD CZN-4	Standard																				55.8	
STD GBM309-15	Standard													0.28	29.70							
STD GBM309-15	Standard													0.25	29.77							
STD GBM309-15	Standard													0.23	28.40							
STD GBM309-15	Standard													0.19	27.84							
STD GBM309-14	Standard																				22.2	
STD GGC-10	Standard																		4.66			
STD GGC-10	Standard																		4.67			
STD GGC-10	Standard																		4.83			
STD GGC-10	Standard																		4.72			
STD GGC-10	Standard																		4.76			
STD GGC-10	Standard																		4.77			
STD GGC-10	Standard																		4.99			
STD GGC-10	Standard																		5.07			
STD GS311-1	Standard													1.05	2.25							



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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 OREAS135	Standard		7.6	284.0	17056.1	27916	53.9	33.2	29.5	3961	8.82	855	8.4	9.4	22	61.5	31.6	4.0	33	1.86	0.085
STD OREAS135	Standard		8.4	281.7	17156.7	28057	56.5	33.9	29.3	3938	8.78	957	10.0	11.4	28	73.7	42.6	5.4	29	1.80	0.093
STD OREAS133B(D)	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS605	Standard		4.9	48334.9	915.1	2173	958.0	1567.0	101.8	82	3.66	1645	0.9	2.3	43	13.7	247.8	16.1	<10	0.19	0.011
STD OREAS605	Standard		5.1	48996.0	921.6	2213	954.4	1584.9	100.1	82	3.70	1666	1.0	2.3	46	13.8	260.2	16.1	<10	0.19	0.011
STD OREAS605	Standard		5.1	48216.5	871.1	2167	980.0	1618.5	100.7	101	3.71	1732	1.0	2.7	50	14.6	319.6	21.3	12	0.18	0.009
STD OREAS605	Standard		4.6	48121.2	858.8	2054	978.6	1570.8	97.7	82	3.74	1689	0.8	2.3	49	14.1	281.6	18.1	<10	0.18	0.010
STD OREAS72B	Standard																				
STD OREAS72B	Standard																				
STD OREAS72B	Standard																				
STD OREAS72B	Standard																				
STD OREAS72B	Standard																				
STD OREAS927-AR	Standard		1.1	10785.3	217.3	735	3.8	28.2	30.0	1012	8.09	12	1.5	12.3	10	0.9	1.1	57.3	35	0.30	0.058
STD OREAS927-AR	Standard		1.0	10710.5	209.1	711	4.8	30.2	27.8	1074	8.07	13	1.7	12.5	13	1.3	1.4	64.6	32	0.29	0.057
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				



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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 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 OREAS135	Standard	34.3	21.1	0.80	352	0.024	1.06	0.02	0.49	2.6	1.44	3.7	6.2	7.21	<5	<2					
STD OREAS135	Standard	41.7	20.0	0.83	416	0.026	1.08	0.02	0.49	2.8	1.35	3.9	6.8	7.15	<5	<2					
STD OREAS133B(D)	Standard																34.91	6.98	11.55	5.35	3.83
STD OREAS133B(D)	Standard																35.09	7.01	11.61	5.40	3.88
STD OREAS133B(D)	Standard																35.23	7.02	11.67	5.38	3.87
STD OREAS133B(D)	Standard																34.90	6.99	11.58	5.34	3.83
STD OREAS133B(D)	Standard																34.79	6.93	11.49	5.30	3.83
STD OREAS605	Standard	6.9	30.7	0.03	263	0.009	0.70	0.03	0.13	6.8	1.70	1.3	15.3	7.82	7	75					
STD OREAS605	Standard	7.3	28.3	0.03	164	0.010	0.72	0.03	0.16	6.5	2.10	1.8	15.6	7.74	7	80					
STD OREAS605	Standard	8.8	28.9	0.03	220	0.010	0.72	0.03	0.13	7.1	1.73	1.3	16.1	7.84	7	81					
STD OREAS605	Standard	7.4	27.0	0.02	165	0.010	0.72	0.03	0.12	7.3	1.71	1.6	15.6	7.87	7	76					
STD OREAS72B	Standard																51.14	8.92	9.83	3.96	15.93
STD OREAS72B	Standard																51.14	8.97	9.71	3.96	15.96
STD OREAS72B	Standard																51.17	8.93	9.83	3.95	15.94
STD OREAS72B	Standard																51.17	8.97	9.92	3.96	16.02
STD OREAS72B	Standard																51.19	8.95	9.80	3.95	16.03
STD OREAS927-AR	Standard	23.6	40.6	1.89	41	0.076	3.21	<0.01	0.26	4.3	0.21	5.4	<0.5	1.81	9	15					
STD OREAS927-AR	Standard	26.0	44.9	1.94	46	0.081	3.26	<0.01	0.27	5.0	0.19	3.4	<0.5	1.77	10	13					
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				



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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
STD GS311-1	Standard													1.03	2.14						
STD GS311-1	Standard													0.98	2.42						
STD GS311-1	Standard													0.95	2.41						
STD GS910-4	Standard													2.72	8.06						
STD GS910-4	Standard													2.72	8.06						
STD GS910-4	Standard													2.66	8.71						
STD GS910-4	Standard													2.63	8.34						
STD OREAS135	Standard																				
STD OREAS135	Standard																				
STD OREAS133B(D)	Standard	3.46	0.16	0.20	0.12	<0.01	0.08	0.06	5.07	11.38	13.03	99.57	0.01								
STD OREAS133B(D)	Standard	3.49	0.17	0.20	0.12	<0.01	0.07	0.06	5.07	11.47	13.03	100.03	0.01								
STD OREAS133B(D)	Standard	3.53	0.16	0.20	0.13	<0.01	0.07	0.06	5.07	11.47	13.03	100.33	<0.01								
STD OREAS133B(D)	Standard	3.49	0.16	0.20	0.12	<0.01	0.07	0.06	5.08	11.40	13.03	99.60	<0.01								
STD OREAS133B(D)	Standard	3.44	0.16	0.20	0.13	<0.01	0.07	0.06	5.07	11.40	13.03	99.33	0.01								
STD OREAS605	Standard																				
STD OREAS605	Standard																				
STD OREAS605	Standard																				
STD OREAS605	Standard																				
STD OREAS72B	Standard	1.33	0.14	0.34	0.05	0.15	0.02	0.02	<0.01	<0.01	5.12	98.24	0.01								
STD OREAS72B	Standard	1.32	0.13	0.34	0.06	0.16	0.03	0.02	<0.01	<0.01	5.12	98.21	0.01								
STD OREAS72B	Standard	1.32	0.14	0.33	0.06	0.15	0.03	0.02	<0.01	<0.01	5.12	98.32	0.01								
STD OREAS72B	Standard	1.34	0.13	0.33	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	0.35	0.06	0.15	0.03	0.02	<0.01	0.01	5.12	98.43	0.01								
STD OREAS927-AR	Standard																				
STD OREAS927-AR	Standard																				
STD RTS-3A	Standard																			3.72	
STD RTS-3A	Standard																			3.49	
STD RTS-3A	Standard																			3.38	
STD RTS-3A	Standard																			3.30	



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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
STD RTS-3A	Standard																				
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 OREAS135 Expected		8.25	294	17000	28000	55.2	36	29.6	3960	8.97	937	9.4	10.4	26.5	67	38	5.1	33.4	1.83	0.086	
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	0.0105	
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	0.054	
STD RTS-3A Expected																					
STD SY-4(D) Expected																					
STD OREAS72B Expected																					
STD OREAS133B(D) Expected																					
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	<0.5	<0.5	<0.5	<5	<0.5	<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	<5	<0.5	<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	<0.5	<0.5	1.2	<5	<0.5	<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





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		AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725	
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01	0.01
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD SY-4(D)	Standard																49.84	20.70	6.19	7.97	0.53
STD SY-4(D)	Standard																49.89	20.68	6.21	8.03	0.53
STD SY-4(D)	Standard																49.83	20.71	6.16	7.98	0.52
STD SY-4(D)	Standard																49.75	20.72	6.21	8.00	0.53
STD SY-4(D)	Standard																49.86	20.74	6.23	8.01	0.54
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 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 RTS-3A Expected																					
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 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	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.05	<5	<2					
BLK	Blank	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.05	<5	<2					
BLK	Blank																				
BLK	Blank	<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					



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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	3.02																				
STD RTS-3A	Standard	3.19																				
STD RTS-3A	Standard	3.14																				
STD RTS-3A	Standard	3.35																				
STD RTS-3A	Standard	3.25																				
STD SY-4(D)	Standard	1.67	0.12	0.30	0.13	<0.01	0.04	<0.01	<0.01	<0.01	4.56	99.20	<0.01									
STD SY-4(D)	Standard	1.68	0.12	0.30	0.12	<0.01	0.04	<0.01	<0.01	<0.01	4.56	99.28	<0.01									
STD SY-4(D)	Standard	1.66	0.12	0.30	0.12	<0.01	0.04	<0.01	0.01	0.01	4.56	99.14	<0.01									
STD SY-4(D)	Standard	1.66	0.11	0.30	0.12	<0.01	0.03	<0.01	0.01	0.01	4.56	99.13	<0.01									
STD SY-4(D)	Standard	1.68	0.11	0.30	0.13	<0.01	0.04	<0.01	<0.01	0.01	4.56	99.35	<0.01									
STD OREAS135 Expected																						
STD OREAS605 Expected																						
STD OREAS927-AR Expected																						
STD RTS-3A Expected		3.3																				
STD SY-4(D) Expected		1.66	0.108	0.287	0.131	0.0345						4.56										
STD OREAS72B Expected		1.313	0.13	0.355	0.061	0.142	0.0335	0.0193			5.12											
STD OREAS133B(D) Expected		0.08 0.032 5.06 11.35																				
STD GS311-1 Expected														1.02	2.35							
STD GS910-4 Expected														2.65	8.27							
STD 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																					
BLK	Blank																					
BLK	Blank	0.06																				
BLK	Blank																					



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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
BLK	Blank																			
BLK	Blank		<0.5	<0.5	<0.5	22	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<10	<0.01
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
SI BLK	Blank																			
SI BLK	Blank																			
SI BLK	Blank																			
SI BLK	Blank																			
SI BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
SI BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
Prep Wash																				
ROCK-WHI	Prep Blank		1.1	7.1	1.8	100	<0.5	2.3	5.2	648	2.03	<5	<0.5	2.1	25	<0.5	<0.5	<0.5	25	0.66
ROCK-WHI	Prep Blank		1.0	3.5	3.1	59	<0.5	1.8	5.1	626	2.06	<5	<0.5	2.2	24	<0.5	<0.5	<0.5	25	0.66



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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
BLK	Blank																				
BLK	Blank	<0.5	1.0	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.05	<5	<2					
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
SI BLK	Blank																99.52	0.31	0.03	0.03	0.03
SI BLK	Blank																99.20	0.32	0.03	0.03	0.02
SI BLK	Blank																98.96	0.32	0.02	0.02	0.02
SI BLK	Blank																98.55	0.32	0.03	0.02	0.02
SI BLK	Blank																98.60	0.32	0.03	0.02	0.01
BLK	Blank																				
BLK	Blank																				
SI BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank	6.3	3.8	0.54	63	0.086	0.93	0.08	0.09	<0.5	0.06	3.9	<0.5	<0.05	<5	<2	70.94	14.27	3.31	2.28	1.05
ROCK-WHI	Prep Blank	6.4	3.1	0.53	62	0.092	0.95	0.09	0.09	<0.5	<0.05	5.0	<0.5	<0.05	<5	<2	70.17	14.09	3.40	2.25	1.04



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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
BLK	Blank																				<0.05
BLK	Blank																				
BLK	Blank																				<0.05
BLK	Blank													<0.02	<0.02						
BLK	Blank													<0.02	<0.02						<0.05
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
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	99.92	<0.01								
SI BLK	Blank	<0.01	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	99.61	<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	99.35	<0.01								
SI BLK	Blank	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	98.96	<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	98.98	<0.01								
BLK	Blank													<0.02	<0.02						
BLK	Blank																				
SI BLK	Blank																				<0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank	1.87	0.10	0.36	0.10	<0.01	0.08	<0.01	<0.01	<0.01	0.96	99.89	<0.01	0.12	<0.02	0.06	<0.02	0.19	<0.05	0.70	
ROCK-WHI	Prep Blank	1.75	0.10	0.36	0.09	<0.01	0.07	<0.01	<0.01	<0.01	0.97	98.97	<0.01	0.12	<0.02	0.08	<0.02	0.13	<0.05	0.74	