



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

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

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

Submitted By: Confirmation & Email Distribution List  
Receiving Lab: Canada-Whitehorse  
Received: September 17, 2019  
Report Date: November 13, 2019  
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## CERTIFICATE OF ANALYSIS

WHI19000551.2

### CLIENT JOB INFORMATION

Project: MacMillan Pass  
Shipment ID: FWZ-19-BV-026  
P.O. Number  
Number of Samples: 138

### SAMPLE DISPOSAL

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

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

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

CC:

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	134	Crush, split and pulverize 500g rock to 200 mesh			WHI
SLBHP	4	Sort, label and box pulps			WHI
CRUBW	134	Extra clean rock wash between samples in crusher			WHI
PULSW	134	Extra Wash with Silica between each sample			WHI
AQ270	138	1:1:1 Aqua Regia digestion ICP-ES/ICP-MS analysis	1	Completed	VAN
LF725	138	Li2B4O7/LiBO2 fusion, analysis by XRF		Completed	VAN
TC000	138	Total C/S Analysis by Leco	0.1	Completed	VAN
TC007	138	Graphite and Organic C by Leco After Ignition	0.1	Completed	VAN
TC006	138	Inorganic Carbon	0.2	Completed	VAN
TC009	138	Sulfide and Sulfate	0.1	Completed	VAN
SHP01	138	Per sample shipping charges for branch shipments			VAN
GC204	6	HF + AR digestion, analyzed by ICP & MS analysis	0.25	Completed	VAN

### ADDITIONAL COMMENTS

Version 2 : GC204-Ga Ge included. 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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# CERTIFICATE OF ANALYSIS

WHI19000551.2

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
3201329	Drill Core	2.38	10.4	73.5	670.4	21071	5.4	67.9	16.3	49	12.00	306	0.9	<0.5	37	114.2	76.9	<0.5	26	0.01	0.016
3201330	Drill Core	2.21	6.6	119.0	3216.3	37051	20.2	54.2	11.5	75	20.97	374	0.6	<0.5	115	201.6	125.9	<0.5	17	0.06	0.031
3201331	Drill Core	1.66	21.7	75.5	694.2	29849	5.3	111.7	12.6	41	7.88	162	3.7	<0.5	34	164.6	62.1	<0.5	40	<0.01	0.008
3201332	Drill Core	1.68	9.2	74.6	1266.2	19977	7.2	135.9	21.9	38	12.72	244	2.8	<0.5	47	116.5	77.5	<0.5	33	0.01	0.020
3201333	Drill Core	1.84	19.7	57.7	649.7	17170	4.0	265.2	41.8	47	7.03	236	3.7	0.7	61	78.7	64.6	<0.5	46	<0.01	0.023
3201334	Drill Core	1.77	24.8	50.6	447.2	13204	3.2	158.0	17.4	47	4.08	126	2.8	<0.5	67	55.6	53.3	<0.5	53	<0.01	0.019
3201335	Drill Core	1.85	58.4	65.4	622.0	6609	4.1	271.3	18.4	50	4.85	224	8.3	<0.5	77	30.3	76.2	<0.5	224	0.02	0.026
3201336	Drill Core	2.19	17.7	81.6	1584.4	33702	8.3	374.4	58.0	32	11.53	276	5.0	1.2	77	141.6	82.7	<0.5	52	0.02	0.035
3201337	Drill Core	1.55	16.9	80.4	712.7	29258	5.7	144.2	21.1	49	6.67	164	4.7	0.5	60	134.7	55.3	<0.5	50	<0.01	0.015
3201338	Drill Core	2.18	17.8	70.7	1381.8	29579	7.2	129.1	12.4	43	11.72	222	3.7	<0.5	32	146.4	63.0	<0.5	55	<0.01	0.008
3201339	Drill Core	1.62	28.7	47.8	1231.5	15003	6.8	148.0	12.3	50	10.13	231	4.9	<0.5	51	66.8	61.8	<0.5	75	<0.01	0.013
3201340	Rock	1.22	1.0	52.3	3.9	52	<0.5	3.7	9.3	436	3.04	<5	0.8	2.2	101	<0.5	<0.5	<0.5	108	1.23	0.066
3201341	Drill Core	2.44	22.3	71.7	453.1	40700	5.2	147.5	13.7	155	7.49	193	3.4	<0.5	49	163.7	48.5	<0.5	68	0.01	0.016
3201342	Drill Core	1.99	18.1	79.0	396.4	44841	4.9	119.4	10.5	57	5.69	150	2.5	<0.5	48	195.7	46.2	<0.5	57	0.01	0.013
3201343	Drill Core	1.94	12.4	57.2	606.4	27368	4.8	105.7	9.8	48	9.36	229	2.2	<0.5	54	96.4	53.8	<0.5	46	0.02	0.017
3201344	Drill Core	2.06	16.7	49.4	587.4	20927	7.5	105.9	14.0	52	16.67	263	2.7	<0.5	60	71.8	70.5	<0.5	64	0.02	0.016
3201345	Drill Core	2.09	30.4	69.4	1208.3	31887	8.2	189.8	15.8	45	15.85	300	4.8	<0.5	124	108.1	96.6	<0.5	87	0.06	0.035
3201346	Drill Core	1.68	36.8	52.0	560.0	6084	4.6	252.1	20.2	48	11.97	287	9.1	0.6	232	24.9	97.2	<0.5	165	0.10	0.063
3201347	Drill Core	0.77	217.2	83.6	471.2	980	5.7	563.8	17.5	67	9.40	484	34.8	0.8	288	3.8	167.3	<0.5	481	0.09	0.063
3201348	Drill Core	1.78	21.0	54.6	489.5	2990	3.7	149.6	8.7	39	9.87	261	2.2	<0.5	113	11.1	93.3	<0.5	63	0.06	0.032
3201349	Drill Core	1.88	70.9	64.9	1777.5	14625	6.0	244.8	12.9	50	10.69	229	6.8	0.5	245	51.4	108.2	<0.5	181	0.10	0.058
3201350	Drill Core	1.91	28.3	45.9	704.9	8652	4.2	142.3	9.3	42	13.17	230	2.8	<0.5	99	27.2	89.9	<0.5	59	0.04	0.021
3201351	Drill Core	2.05	48.2	60.2	862.2	6420	5.5	289.5	23.8	74	14.44	297	7.5	0.6	357	17.0	104.8	<0.5	165	0.15	0.085
3201352	Drill Core	0.79	7.4	93.1	865.7	5368	5.2	960.4	140.8	34	18.82	602	2.2	0.8	270	14.1	144.2	<0.5	42	0.11	0.064
3201353	Drill Core	1.31	50.7	56.6	334.2	552	3.3	191.2	8.9	50	10.49	182	3.9	<0.5	383	2.9	91.3	<0.5	179	0.19	0.104
3201354	Drill Core	1.74	32.4	44.9	321.6	33	3.7	237.1	12.8	53	11.67	226	5.5	<0.5	533	<0.5	90.0	<0.5	190	0.30	0.161
3201355	Drill Core	1.50	21.5	87.3	1456.8	2553	5.8	239.4	17.7	32	12.55	241	7.5	<0.5	389	7.7	125.7	<0.5	122	0.22	0.162
3201356	Drill Core	1.47	28.6	52.0	693.3	15023	3.6	187.9	12.5	28	5.81	184	2.9	<0.5	138	28.5	75.3	<0.5	43	0.05	0.037
3201357	Drill Core	1.85	48.1	56.2	2398.8	8205	6.9	168.8	8.4	39	8.34	172	5.1	<0.5	157	19.0	70.3	<0.5	80	0.06	0.050
3201358	Drill Core	1.75	26.1	55.5	4668.1	868	10.4	185.3	15.7	39	12.26	272	3.2	<0.5	148	4.1	96.7	<0.5	67	0.05	0.047



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	Method	Analyte	Unit	MDL	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
3201329	Drill Core	<0.5	14.8	<0.01	382	<0.001	0.17	<0.01	0.05	<0.5	31.92	1.0	3.3	14.21	<5	<2	64.44	2.74	17.42	0.04	0.07			
3201330	Drill Core	<0.5	12.5	<0.01	149	<0.001	0.15	<0.01	0.04	<0.5	59.18	0.6	9.0	25.22	<5	2	43.56	2.00	30.94	0.10	0.05			
3201331	Drill Core	0.6	16.8	<0.01	414	<0.001	0.18	<0.01	0.05	<0.5	42.64	1.3	2.7	9.91	<5	<2	72.62	2.74	11.32	0.03	0.06			
3201332	Drill Core	0.6	28.7	<0.01	186	0.001	0.25	<0.01	0.07	<0.5	27.55	1.4	3.0	14.97	<5	2	60.50	4.67	18.46	0.03	0.07			
3201333	Drill Core	0.9	30.4	<0.01	691	0.002	0.30	<0.01	0.07	<0.5	24.68	2.2	2.5	8.35	<5	3	67.74	7.63	10.26	0.03	0.11			
3201334	Drill Core	0.8	17.9	<0.01	577	0.007	0.31	<0.01	0.09	<0.5	21.10	2.0	2.0	4.84	<5	3	78.72	5.52	5.92	0.03	0.11			
3201335	Drill Core	1.2	32.2	<0.01	594	0.002	0.31	<0.01	0.09	<0.5	11.83	1.7	2.8	5.44	<5	9	78.27	4.26	7.14	0.05	0.11			
3201336	Drill Core	0.8	41.6	<0.01	285	0.002	0.36	<0.01	0.08	<0.5	48.91	2.6	2.7	14.56	<5	7	49.45	11.39	16.77	0.05	0.13			
3201337	Drill Core	0.9	21.8	<0.01	523	0.001	0.25	<0.01	0.07	<0.5	47.92	2.5	1.9	8.54	<5	3	68.64	6.33	9.42	0.03	0.10			
3201338	Drill Core	0.6	18.9	<0.01	250	<0.001	0.15	<0.01	0.04	<0.5	45.61	0.9	1.9	14.21	<5	3	65.96	2.15	16.74	0.03	0.05			
3201339	Drill Core	0.8	18.2	<0.01	334	<0.001	0.20	<0.01	0.05	<0.5	23.35	1.3	1.9	11.72	<5	5	68.98	3.06	14.20	0.02	0.07			
3201340	Rock	6.6	5.7	0.86	195	0.192	2.17	0.33	0.35	<0.5	<0.05	5.1	<0.5	<0.05	6	<2	60.47	16.69	6.17	6.27	2.81			
3201341	Drill Core	0.5	16.6	<0.01	339	<0.001	0.18	<0.01	0.05	<0.5	64.48	1.2	1.5	10.00	<5	3	71.79	2.63	10.51	0.04	0.05			
3201342	Drill Core	0.5	14.4	<0.01	303	<0.001	0.16	<0.01	0.05	<0.5	75.69	1.2	1.4	8.24	<5	4	75.82	2.55	8.06	0.04	0.06			
3201343	Drill Core	<0.5	13.5	<0.01	308	<0.001	0.16	<0.01	0.05	<0.5	45.69	0.6	1.3	11.48	<5	4	69.33	2.96	13.18	0.05	0.04			
3201344	Drill Core	<0.5	16.1	<0.01	158	<0.001	0.21	<0.01	0.05	<0.5	39.66	0.7	1.8	19.63	<5	4	50.55	5.06	24.46	0.05	0.07			
3201345	Drill Core	0.7	21.4	<0.01	295	<0.001	0.18	<0.01	0.05	<0.5	48.85	1.1	2.4	18.98	<5	6	53.43	3.11	22.98	0.10	0.05			
3201346	Drill Core	1.2	37.9	<0.01	305	0.002	0.27	<0.01	0.07	<0.5	11.97	1.8	2.7	13.44	<5	7	64.31	3.57	17.27	0.16	0.07			
3201347	Drill Core	2.9	39.5	0.01	406	0.003	0.50	<0.01	0.15	<0.5	4.55	3.0	7.7	10.55	<5	21	56.61	7.06	13.69	0.16	0.18			
3201348	Drill Core	<0.5	12.5	<0.01	270	0.003	0.13	<0.01	0.04	<0.5	7.50	0.6	1.7	11.14	<5	3	73.27	1.86	14.11	0.10	0.06			
3201349	Drill Core	1.4	25.2	<0.01	413	0.001	0.28	<0.01	0.08	<0.5	24.90	1.3	3.4	12.60	<5	8	63.50	4.30	15.12	0.17	0.10			
3201350	Drill Core	0.7	17.1	<0.01	316	<0.001	0.26	<0.01	0.08	<0.5	15.60	1.2	2.6	15.03	<5	3	60.18	5.01	18.66	0.07	0.11			
3201351	Drill Core	1.5	30.7	<0.01	357	0.001	0.35	<0.01	0.10	4.7	12.39	1.6	2.7	16.65	<5	9	51.69	6.73	21.16	0.24	0.11			
3201352	Drill Core	1.6	55.7	<0.01	220	0.002	0.29	<0.01	0.07	1.4	9.81	1.6	3.4	21.76	<5	4	33.19	13.13	27.46	0.18	0.09			
3201353	Drill Core	1.2	27.9	<0.01	308	0.001	0.29	<0.01	0.08	<0.5	2.56	2.0	2.5	11.65	<5	6	66.33	3.71	15.22	0.29	0.10			
3201354	Drill Core	1.6	40.8	<0.01	419	0.002	0.33	<0.01	0.09	<0.5	1.65	2.3	2.4	12.93	<5	8	61.40	4.07	16.59	0.44	0.08			
3201355	Drill Core	1.0	32.3	<0.01	278	0.002	0.41	<0.01	0.09	2.4	5.73	2.2	2.4	14.24	<5	12	54.93	7.20	18.34	0.34	0.12			
3201356	Drill Core	0.6	17.6	<0.01	314	<0.001	0.21	<0.01	0.06	<0.5	25.13	0.9	1.6	7.04	<5	2	75.06	4.91	8.39	0.09	0.09			
3201357	Drill Core	0.6	15.2	<0.01	315	<0.001	0.24	<0.01	0.06	<0.5	12.83	1.0	1.6	9.54	<5	6	70.46	3.74	12.14	0.11	0.07			
3201358	Drill Core	<0.5	18.5	<0.01	265	<0.001	0.27	<0.01	0.06	<0.5	2.60	1.5	1.8	14.00	<5	5	61.51	5.13	17.62	0.09	0.08			



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Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008	GC204
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	Ga
Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm
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	1
3201329	Drill Core	0.43	0.01	0.14	0.06	0.01	0.41	<0.01	0.06	2.03	10.22	98.68	0.03	0.65	14.20	0.61	0.04	<0.08	13.11	3.27
3201330	Drill Core	0.31	0.02	0.14	0.11	<0.01	0.27	<0.01	0.31	3.94	17.09	99.94	0.02	0.39	27.14	0.38	<0.02	<0.08	25.16	5.95
3201331	Drill Core	0.45	0.01	0.19	0.06	0.01	0.34	<0.01	0.07	3.15	7.86	99.78	0.04	1.19	10.52	1.13	0.05	<0.08	9.04	4.44
3201332	Drill Core	0.69	0.01	0.50	0.09	0.02	0.63	<0.01	0.12	1.93	11.02	99.37	0.04	0.62	15.73	0.59	0.03	<0.08	14.72	3.04
3201333	Drill Core	1.08	0.01	1.17	0.18	0.05	1.23	<0.01	0.06	1.71	7.71	99.63	0.09	1.19	9.40	1.13	0.06	<0.08	8.56	2.51
3201334	Drill Core	0.92	0.02	0.43	0.13	0.02	0.57	<0.01	0.04	1.28	5.53	99.68	0.08	1.39	5.54	1.33	0.05	<0.08	4.99	1.66
3201335	Drill Core	0.75	0.02	0.36	0.17	0.03	0.43	<0.01	0.06	0.65	7.73	100.29	0.23	3.42	6.24	3.24	0.18	<0.08	5.88	1.09
3201336	Drill Core	1.58	0.02	1.69	0.19	0.08	1.74	<0.01	0.15	3.53	11.65	99.68	0.11	0.79	15.87	0.74	0.05	<0.08	14.07	5.40
3201337	Drill Core	0.95	0.02	0.54	0.13	0.03	0.81	<0.01	0.06	3.03	7.54	98.59	0.09	1.16	9.47	1.08	0.08	<0.08	7.91	4.70
3201338	Drill Core	0.36	0.02	0.22	0.06	0.02	0.20	<0.01	0.12	3.02	10.45	100.21	0.06	1.19	15.59	1.10	0.09	<0.08	14.00	4.76
3201339	Drill Core	0.52	0.01	0.19	0.09	0.01	0.27	<0.01	0.11	1.40	9.64	98.99	0.10	1.73	12.72	1.63	0.09	<0.08	11.95	2.30
3201340	Rock	1.47	0.13	0.51	0.14	<0.01	0.04	<0.01	<0.01	<0.01	0.82	98.80	0.03	0.03	<0.02	0.03	<0.02	<0.08	<0.05	0.17
3201341	Drill Core	0.44	0.03	0.23	0.09	0.01	0.26	<0.01	0.05	4.07	7.89	99.17	0.08	1.35	11.13	1.28	0.07	<0.08	9.00	6.38
3201342	Drill Core	0.43	0.02	0.18	0.08	0.01	0.24	<0.01	0.04	4.69	6.56	100.03	0.07	1.18	8.81	1.13	0.05	<0.08	6.60	6.62
3201343	Drill Core	0.44	0.01	0.25	0.10	0.01	0.27	<0.01	0.04	2.83	8.42	98.72	0.06	0.82	12.12	0.78	0.04	<0.08	10.67	4.36
3201344	Drill Core	0.70	0.01	0.38	0.09	<0.01	0.58	<0.01	0.06	1.97	14.65	99.30	0.08	1.15	21.88	1.10	0.05	<0.08	20.76	3.37
3201345	Drill Core	0.50	0.01	0.34	0.14	0.02	0.30	<0.01	0.11	3.03	14.47	99.46	0.11	1.71	20.84	1.62	0.09	<0.08	19.18	4.99
3201346	Drill Core	0.59	0.01	0.56	0.23	0.03	0.32	<0.01	0.06	0.59	11.33	99.32	0.17	2.13	14.64	2.08	0.04	<0.08	14.23	1.23
3201347	Drill Core	1.27	0.02	0.39	0.40	0.02	0.49	<0.01	0.05	0.09	18.35	98.90	0.51	9.95	11.81	9.77	0.18	<0.08	11.66	0.44
3201348	Drill Core	0.32	0.02	0.10	0.11	<0.01	0.15	<0.01	0.05	0.28	8.60	99.14	0.07	1.25	11.66	1.19	0.06	<0.08	11.40	0.79
3201349	Drill Core	0.72	0.02	0.30	0.30	0.02	0.33	<0.01	0.17	1.38	12.37	99.24	0.19	3.65	13.57	3.58	0.06	<0.08	12.80	2.30
3201350	Drill Core	0.84	0.01	0.26	0.16	0.01	0.29	<0.01	0.07	0.83	12.12	98.94	0.10	1.68	16.12	1.62	0.06	<0.08	15.59	1.60
3201351	Drill Core	0.97	0.02	0.58	0.40	0.04	0.52	<0.01	0.07	0.62	15.72	99.16	0.18	3.68	18.29	3.58	0.09	<0.08	17.85	1.32
3201352	Drill Core	1.51	0.01	2.67	0.68	0.17	1.17	<0.01	0.09	0.52	17.28	98.60	0.10	0.83	23.21	0.77	0.06	<0.08	22.75	1.38
3201353	Drill Core	0.64	0.01	0.21	0.40	0.02	0.30	<0.01	0.02	0.06	12.23	99.62	0.19	3.87	12.70	3.68	0.18	<0.08	12.53	0.52
3201354	Drill Core	0.67	0.02	0.30	0.61	0.03	0.31	<0.01	0.03	<0.01	14.23	98.87	0.19	4.92	14.19	4.71	0.20	<0.08	14.03	0.47
3201355	Drill Core	0.99	0.01	0.55	0.65	0.03	0.43	<0.01	0.14	0.25	14.94	99.13	0.15	4.10	15.54	3.89	0.20	<0.08	15.23	0.92
3201356	Drill Core	0.68	0.01	0.43	0.28	0.03	0.31	<0.01	0.07	1.44	7.10	99.33	0.08	1.70	7.77	1.59	0.10	<0.08	7.03	2.21
3201357	Drill Core	0.58	<0.01	0.22	0.26	0.02	0.23	<0.01	0.22	0.81	10.70	99.87	0.10	3.64	10.65	3.49	0.15	<0.08	10.16	1.46
3201358	Drill Core	0.63	0.02	0.34	0.28	0.02	0.28	<0.01	0.45	0.09	11.54	98.22	0.10	1.60	15.08	1.53	0.07	<0.08	14.81	0.81



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**Project:** MacMillan Pass  
**Report Date:** November 13, 2019

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## CERTIFICATE OF ANALYSIS

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Method	GC204
Analyte	Ge
Unit	ppm
MDL	1
3201329	Drill Core
3201330	Drill Core
3201331	Drill Core
3201332	Drill Core
3201333	Drill Core
3201334	Drill Core
3201335	Drill Core
3201336	Drill Core
3201337	Drill Core
3201338	Drill Core
3201339	Drill Core
3201340	Rock
3201341	Drill Core
3201342	Drill Core
3201343	Drill Core
3201344	Drill Core
3201345	Drill Core
3201346	Drill Core
3201347	Drill Core
3201348	Drill Core
3201349	Drill Core
3201350	Drill Core
3201351	Drill Core
3201352	Drill Core
3201353	Drill Core
3201354	Drill Core
3201355	Drill Core
3201356	Drill Core
3201357	Drill Core
3201358	Drill Core



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# CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
3201359	Drill Core	1.49	27.9	44.4	4166.7	249	6.8	149.8	11.1	42	4.94	171	2.4	<0.5	269	1.0	80.5	<0.5	85	0.14	0.081
3201360	Rock Pulp	0.04	2.8	234.3	18039.0	29103	34.5	25.7	20.2	1849	5.53	84	1.5	6.5	19	96.3	42.1	<0.5	11	5.23	0.056
3201361	Drill Core	1.59	64.0	68.7	2771.7	207	6.5	215.9	14.6	42	5.25	309	3.9	<0.5	151	1.4	129.7	<0.5	141	0.05	0.043
3201362	Drill Core	1.45	49.8	59.2	3139.9	612	5.4	142.5	9.9	36	2.82	202	3.0	<0.5	132	3.6	149.9	<0.5	91	0.04	0.032
3201363	Drill Core	1.39	98.8	62.3	932.6	945	4.0	270.5	22.4	51	4.11	293	4.3	0.5	187	2.6	125.7	<0.5	140	0.05	0.034
3201364	Drill Core	1.62	28.7	36.1	459.1	669	2.0	123.4	14.4	28	2.66	232	2.0	<0.5	81	1.7	71.2	<0.5	57	0.04	0.026
3201365	Drill Core	1.81	27.6	32.0	375.0	1038	2.2	117.8	14.4	37	3.11	244	2.0	<0.5	104	4.6	72.6	<0.5	58	0.04	0.030
3201366	Drill Core	1.85	5.2	57.5	939.3	10258	6.7	88.7	37.1	27	16.83	431	1.4	<0.5	112	54.7	163.5	<0.5	31	0.05	0.031
3201367	Drill Core	2.35	3.5	62.0	837.9	10117	9.3	106.2	35.0	43	17.51	436	1.9	<0.5	87	59.7	134.3	<0.5	30	0.03	0.025
3201368	Drill Core	1.37	2.7	22.3	317.5	2740	2.4	68.2	22.8	26	4.04	174	0.9	<0.5	55	14.1	53.3	<0.5	13	0.02	0.016
3201369	Drill Core	1.60	4.5	43.3	3107.2	325	7.8	237.2	43.7	42	12.70	431	0.8	<0.5	162	0.9	129.3	<0.5	34	0.07	0.039
3201370	Drill Core	2.34	26.4	88.4	14274.6	1952	21.1	882.8	95.2	25	16.07	802	4.9	0.6	770	5.2	259.0	<0.5	99	0.27	0.142
3201371	Drill Core	3.24	1.1	100.7	6234.6	30264	11.0	796.8	100.0	22	13.47	750	2.4	0.5	785	76.0	219.2	<0.5	39	0.29	0.168
3201372	Drill Core	2.42	2.7	47.7	18403.7	1472	28.5	400.1	52.3	19	25.92	759	0.6	<0.5	218	5.5	294.1	<0.5	28	0.10	0.050
3201373	Drill Core	2.86	1.0	110.0	13479.1	92529	29.8	393.2	56.5	26	17.97	775	0.7	<0.5	444	275.4	310.7	<0.5	22	0.19	0.094
3201374	Drill Core	2.31	0.9	58.4	9830.3	31055	20.7	276.6	45.8	20	16.65	618	1.4	<0.5	228	106.4	199.3	<0.5	27	0.07	0.050
3201375	Drill Core	2.17	1.2	68.5	21531.0	20003	32.0	341.9	68.1	25	21.02	886	<0.5	<0.5	398	54.9	343.5	<0.5	25	0.15	0.071
3201376	Drill Core	2.24	1.4	91.9	20941.4	44312	34.4	333.8	73.8	26	23.00	959	<0.5	<0.5	266	125.4	307.8	<0.5	25	0.11	0.047
3201377	Drill Core	2.74	0.7	162.8	>40000	95856	61.5	254.1	57.6	44	29.44	1227	<0.5	<0.5	261	259.7	741.1	<0.5	28	0.12	0.056
3201378	Rock	1.21	0.9	49.1	13.1	59	<0.5	4.4	10.3	418	2.89	<5	0.8	2.4	84	<0.5	<0.5	<0.5	106	1.02	0.063
3201379	Drill Core	2.54	0.7	187.9	>40000	77360	66.0	235.3	67.7	40	26.73	982	<0.5	<0.5	298	244.4	1170.6	<0.5	24	0.14	0.072
3201380	Rock Pulp	0.03	3.0	367.0	>40000	105772	101.4	24.4	25.6	1359	7.74	147	1.4	5.7	17	315.6	168.0	0.5	13	3.76	0.040
3201381	Drill Core	1.49	0.9	59.3	13392.2	25510	24.2	269.7	100.7	20	17.03	670	<0.5	<0.5	183	81.6	335.1	<0.5	19	0.07	0.033
3201382	Drill Core	1.52	1.0	61.1	14324.7	29953	26.3	300.3	112.7	27	16.38	675	<0.5	<0.5	217	103.9	317.8	<0.5	21	0.07	0.034
3201383	Drill Core	2.27	0.9	73.6	9046.4	19130	19.6	350.5	107.5	20	26.13	1238	<0.5	<0.5	224	87.1	433.7	<0.5	24	0.10	0.044
3201384	Drill Core	1.83	1.2	114.6	35056.1	64123	59.1	447.1	107.4	34	24.74	1133	0.9	<0.5	340	290.4	472.6	<0.5	30	0.14	0.071
3201385	Drill Core	1.79	1.7	58.2	11274.3	32573	19.5	389.5	84.8	25	13.09	670	<0.5	<0.5	229	131.6	187.5	<0.5	23	0.10	0.051
3201386	Drill Core	2.35	1.6	200.0	38275.0	145917	70.1	311.0	131.0	38	17.33	813	<0.5	<0.5	242	636.4	550.9	<0.5	21	0.11	0.056
3201387	Drill Core	2.08	2.3	55.2	6409.3	25651	16.2	379.9	75.0	21	19.54	681	1.6	<0.5	310	90.1	208.1	<0.5	33	0.14	0.081
3201388	Drill Core	2.00	4.2	52.6	4348.4	19840	12.2	547.2	92.7	28	13.13	594	1.0	<0.5	229	59.6	155.6	<0.5	34	0.10	0.062



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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
3201359	Drill Core	0.8	12.5	<0.01	357	<0.001	0.27	<0.01	0.07	<0.5	1.42	1.3	1.5	5.42	<5	7	79.14	4.70	7.16	0.21	0.09
3201360	Rock Pulp	23.4	14.3	2.91	144	0.018	1.08	0.01	0.77	0.6	1.19	3.5	27.2	4.77	<5	<2	43.43	8.56	8.19	7.36	5.27
3201361	Drill Core	0.8	16.0	<0.01	341	<0.001	0.30	<0.01	0.08	<0.5	1.74	2.0	2.4	5.70	<5	12	75.97	5.11	7.52	0.09	0.10
3201362	Drill Core	<0.5	10.2	<0.01	227	<0.001	0.22	<0.01	0.07	<0.5	1.82	1.5	1.5	3.13	<5	12	82.53	4.23	4.26	0.06	0.09
3201363	Drill Core	0.8	17.3	<0.01	356	<0.001	0.32	<0.01	0.12	<0.5	2.39	2.4	2.7	4.72	<5	13	71.58	8.35	6.21	0.09	0.15
3201364	Drill Core	<0.5	10.0	<0.01	240	<0.001	0.20	<0.01	0.07	<0.5	1.73	1.5	1.2	3.00	<5	4	82.15	5.78	4.08	0.07	0.11
3201365	Drill Core	<0.5	12.7	<0.01	330	<0.001	0.21	<0.01	0.07	<0.5	2.29	1.0	1.3	3.53	<5	6	82.78	5.20	4.77	0.06	0.08
3201366	Drill Core	<0.5	23.9	<0.01	157	<0.001	0.12	<0.01	0.03	<0.5	16.08	0.5	2.7	19.43	<5	<2	55.13	2.65	25.66	0.07	0.04
3201367	Drill Core	<0.5	11.5	<0.01	98	<0.001	0.12	<0.01	0.02	<0.5	19.52	<0.5	1.9	20.19	<5	<2	54.29	2.65	26.67	0.05	0.02
3201368	Drill Core	<0.5	5.4	<0.01	81	<0.001	0.08	<0.01	0.02	<0.5	4.93	<0.5	0.7	4.62	<5	<2	83.75	3.93	6.08	0.04	0.03
3201369	Drill Core	<0.5	7.9	<0.01	119	<0.001	0.09	<0.01	0.02	<0.5	1.98	<0.5	1.3	14.40	<5	6	67.50	2.18	18.93	0.11	0.03
3201370	Drill Core	1.3	60.6	<0.01	282	0.002	0.24	<0.01	0.05	<0.5	4.69	1.0	1.6	17.98	<5	5	41.88	10.77	23.46	0.37	0.08
3201371	Drill Core	1.1	79.3	<0.01	221	0.003	0.24	<0.01	0.03	<0.5	49.75	0.8	1.4	16.29	<5	<2	46.75	10.34	19.93	0.43	0.04
3201372	Drill Core	<0.5	46.1	<0.01	90	0.002	0.08	<0.01	0.01	<0.5	4.41	<0.5	2.3	>30	<5	<2	30.97	4.39	38.91	0.14	0.02
3201373	Drill Core	0.6	39.8	<0.01	135	0.002	0.12	<0.01	0.01	<0.5	143.85	<0.5	1.4	24.41	<5	<2	35.51	5.98	25.56	0.27	0.02
3201374	Drill Core	<0.5	31.3	<0.01	102	0.001	0.14	<0.01	<0.01	<0.5	52.65	<0.5	1.3	20.08	5	<2	48.17	5.40	24.38	0.12	0.02
3201375	Drill Core	0.7	39.7	<0.01	137	0.002	0.12	<0.01	0.01	<0.5	32.92	<0.5	2.6	24.42	<5	2	37.29	5.80	30.89	0.21	0.02
3201376	Drill Core	<0.5	31.8	<0.01	100	0.001	0.09	<0.01	0.01	<0.5	64.95	<0.5	1.7	27.46	<5	<2	31.74	4.31	34.33	0.16	0.02
3201377	Drill Core	<0.5	36.3	<0.01	77	0.002	0.07	<0.01	<0.01	<0.5	144.42	<0.5	4.8	>30	7	2	12.94	1.65	43.14	0.18	0.02
3201378	Rock	6.1	5.3	0.86	167	0.179	1.83	0.21	0.30	<0.5	<0.05	3.5	<0.5	<0.05	5	<2	60.14	16.80	6.25	6.30	2.89
3201379	Drill Core	<0.5	24.4	<0.01	56	0.001	0.06	<0.01	<0.01	<0.5	110.24	<0.5	2.7	>30	6	3	21.48	1.55	39.09	0.20	<0.01
3201380	Rock Pulp	17.1	13.5	2.08	85	0.012	0.75	<0.01	0.49	<0.5	4.71	2.7	43.1	10.96	<5	4	34.31	6.93	11.45	5.37	3.87
3201381	Drill Core	0.6	26.8	<0.01	84	0.001	0.09	<0.01	<0.01	<0.5	37.01	<0.5	1.8	20.93	<5	<2	47.77	4.50	25.30	0.10	0.02
3201382	Drill Core	0.6	26.4	<0.01	103	0.002	0.10	<0.01	0.01	<0.5	42.92	<0.5	2.1	20.43	<5	<2	49.42	4.84	24.34	0.11	0.03
3201383	Drill Core	<0.5	32.0	<0.01	65	0.001	0.08	<0.01	<0.01	<0.5	31.04	<0.5	4.0	>30	<5	<2	30.92	3.03	39.43	0.15	0.02
3201384	Drill Core	0.6	40.6	<0.01	123	0.002	0.14	<0.01	0.01	<0.5	97.50	0.5	6.7	>30	<5	3	25.55	3.53	36.14	0.20	0.02
3201385	Drill Core	0.7	35.2	<0.01	185	0.002	0.16	<0.01	0.03	<0.5	47.96	0.7	2.2	16.58	<5	<2	51.70	7.92	18.50	0.16	0.04
3201386	Drill Core	<0.5	24.3	<0.01	98	0.001	0.09	<0.01	0.01	<0.5	215.30	<0.5	5.4	25.94	11	<2	31.56	2.52	24.98	0.17	0.03
3201387	Drill Core	0.5	42.7	<0.01	118	0.001	0.17	<0.01	0.02	<0.5	36.49	0.7	1.4	23.14	<5	<2	37.80	6.84	29.68	0.22	0.04
3201388	Drill Core	0.8	47.9	<0.01	219	0.002	0.26	<0.01	0.07	<0.5	29.07	0.7	2.1	16.04	<5	<2	47.97	10.76	19.16	0.16	0.07



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Vancouver British Columbia V5C 2V6 Canada

**Project:** MacMillan Pass  
**Report Date:** November 13, 2019

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# CERTIFICATE OF ANALYSIS

WHI19000551.2

Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008	GC204
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	Ga
Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm
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	1
3201359	Drill Core	0.71	0.02	0.23	0.37	0.01	0.29	<0.01	0.41	0.02	5.99	99.47	0.12	1.56	5.98	1.39	0.17	<0.08	5.83	0.44
3201360	Rock Pulp	4.13	0.24	0.26	0.12	<0.01	0.07	0.01	1.75	3.04	12.90	96.17	<0.01	3.19	5.18	0.34	<0.02	10.43	2.72	7.39
3201361	Drill Core	0.81	0.02	0.29	0.28	0.02	0.32	<0.01	0.27	0.02	7.94	98.82	0.22	3.09	6.34	2.87	0.22	<0.08	6.16	0.54
3201362	Drill Core	0.64	0.02	0.19	0.24	0.01	0.26	<0.01	0.31	0.06	5.73	98.72	0.17	2.81	3.08	2.31	0.50	<0.08	2.91	0.52
3201363	Drill Core	1.24	0.02	0.68	0.35	0.03	0.45	<0.01	0.10	0.09	9.34	98.75	0.29	5.24	4.67	4.16	1.08	<0.08	4.53	0.42
3201364	Drill Core	0.77	0.02	0.32	0.20	0.02	0.29	<0.01	0.05	0.06	4.59	98.56	0.12	1.72	3.02	1.38	0.33	<0.08	2.89	0.38
3201365	Drill Core	0.63	0.02	0.24	0.24	0.01	0.27	<0.01	0.03	0.11	4.66	99.15	0.11	1.58	3.48	1.36	0.21	<0.08	3.34	0.44
3201366	Drill Core	0.24	0.01	0.09	0.21	0.01	0.12	<0.01	0.10	1.04	13.81	99.47	0.02	0.34	20.39	0.30	0.03	<0.08	19.66	2.19
3201367	Drill Core	0.17	0.02	0.14	0.12	0.01	0.09	<0.01	0.08	1.01	14.28	99.87	0.02	0.28	21.58	0.26	0.02	<0.08	20.90	2.04
3201368	Drill Core	0.25	<0.01	0.15	0.10	<0.01	0.13	<0.01	0.03	0.27	3.95	98.80	0.02	0.28	4.68	0.22	0.05	<0.08	4.46	0.66
3201369	Drill Core	0.21	0.02	0.08	0.13	<0.01	0.08	<0.01	0.30	0.03	10.06	99.71	0.03	0.41	14.95	0.38	0.02	<0.08	14.74	0.62
3201370	Drill Core	0.77	0.01	2.34	0.72	0.19	0.51	<0.01	1.42	0.19	15.13	98.05	0.14	1.21	18.71	1.16	0.04	<0.08	18.24	1.42
3201371	Drill Core	0.49	0.01	2.41	0.75	0.21	0.33	<0.01	0.62	3.04	12.74	98.94	0.06	0.21	17.76	0.19	<0.02	<0.08	16.06	5.09
3201372	Drill Core	0.17	0.01	1.06	0.25	0.05	0.12	<0.01	1.88	0.15	20.75	99.06	0.02	0.21	30.14	0.19	<0.02	<0.08	29.59	1.64
3201373	Drill Core	0.21	<0.01	1.39	0.41	0.06	0.16	<0.01	1.35	8.96	16.29	98.51	0.03	0.10	25.41	0.08	<0.02	<0.08	20.61	14.40
3201374	Drill Core	0.18	0.01	1.18	0.31	0.06	0.13	<0.01	0.98	3.05	14.28	99.10	0.03	0.15	21.42	0.12	0.03	<0.08	19.64	5.33
3201375	Drill Core	0.21	0.02	1.29	0.35	0.06	0.15	<0.01	2.13	1.93	17.48	98.48	0.03	0.12	26.05	0.09	<0.02	<0.08	24.66	4.16
3201376	Drill Core	0.18	0.02	0.96	0.25	0.05	0.12	<0.01	2.13	4.38	19.35	99.27	0.02	0.08	29.39	0.06	<0.02	<0.08	26.78	7.84
3201377	Drill Core	0.06	0.02	0.51	0.23	0.02	0.05	<0.01	4.10	9.70	24.53	99.90	<0.01	0.12	39.43	0.10	<0.02	<0.08	34.30	15.40
3201378	Rock	1.49	0.13	0.52	0.14	<0.01	0.05	<0.01	<0.01	<0.01	0.90	98.93	0.03	0.02	0.06	<0.02	<0.02	<0.08	<0.05	0.34
3201379	Drill Core	0.05	0.01	0.40	0.23	0.01	0.05	0.01	4.33	7.65	22.12	99.41	<0.01	0.10	36.15	0.08	<0.02	<0.08	31.69	13.39
3201380	Rock Pulp	3.51	0.17	0.22	0.10	<0.01	0.08	0.03	4.84	10.73	14.79	99.54	<0.01	2.69	11.20	0.65	<0.02	7.47	5.77	16.29
3201381	Drill Core	0.15	0.01	0.96	0.23	0.04	0.12	<0.01	1.35	2.54	14.63	98.46	0.02	0.13	21.85	0.10	0.03	<0.08	20.25	4.81
3201382	Drill Core	0.16	0.01	1.00	0.22	0.04	0.11	<0.01	1.43	2.99	14.46	100.02	0.02	0.12	20.50	0.10	0.02	<0.08	18.70	5.40
3201383	Drill Core	0.09	<0.01	0.68	0.19	0.03	0.06	<0.01	0.88	1.88	21.13	99.05	<0.01	0.07	32.95	0.05	<0.02	<0.08	31.74	3.64
3201384	Drill Core	0.13	0.01	0.82	0.27	0.04	0.10	<0.01	3.44	6.25	20.71	99.02	0.01	0.11	32.50	0.09	<0.02	<0.08	28.93	10.71
3201385	Drill Core	0.45	0.01	1.91	0.39	0.09	0.27	<0.01	1.09	3.13	11.78	98.32	0.04	0.13	16.87	0.11	<0.02	<0.08	15.08	5.38
3201386	Drill Core	0.15	0.02	0.77	0.23	0.03	0.08	0.01	3.74	14.62	16.78	99.61	0.01	0.10	27.89	0.09	<0.02	<0.08	20.57	21.97
3201387	Drill Core	0.35	0.01	1.68	0.41	0.08	0.18	<0.01	0.62	2.57	17.27	98.45	0.04	0.20	25.73	0.19	<0.02	<0.08	24.25	4.43
3201388	Drill Core	0.84	0.02	2.64	0.43	0.13	0.36	<0.01	0.43	1.92	12.60	98.07	0.07	0.28	16.58	0.25	<0.02	<0.08	15.47	3.32





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## CERTIFICATE OF ANALYSIS

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Method	GC204
Analyte	Ge
Unit	ppm
MDL	1
3201359	Drill Core
3201360	Rock Pulp
3201361	Drill Core
3201362	Drill Core
3201363	Drill Core
3201364	Drill Core
3201365	Drill Core
3201366	Drill Core
3201367	Drill Core
3201368	Drill Core
3201369	Drill Core
3201370	Drill Core
3201371	Drill Core
3201372	Drill Core
3201373	Drill Core
3201374	Drill Core
3201375	Drill Core
3201376	Drill Core
3201377	Drill Core
3201378	Rock
3201379	Drill Core
3201380	Rock Pulp
3201381	Drill Core
3201382	Drill Core
3201383	Drill Core
3201384	Drill Core
3201385	Drill Core
3201386	Drill Core
3201387	Drill Core
3201388	Drill Core



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MacMillan Pass

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# CERTIFICATE OF ANALYSIS

WHI19000551.2

	Method	Analyte	Unit	MDL	WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270			
					Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
					kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
3201389	Drill Core	2.33	3.8	70.7	4997.7	45200	15.6	709.6	113.8	36	17.10	963	2.3	<0.5	141	150.7	179.6	<0.5	38	0.04	0.038			
3201390	Drill Core	2.02	2.6	202.5	28234.7	>200000	70.8	341.0	67.1	41	9.07	591	<0.5	<0.5	192	717.6	480.8	<0.5	19	0.06	0.047			
3201391	Drill Core	1.87	1.8	197.2	38986.3	176180	90.0	432.6	84.7	40	9.76	557	<0.5	<0.5	83	546.3	758.3	<0.5	19	0.03	0.020			
3201392	Rock	1.11	1.1	52.7	8.3	60	<0.5	4.7	10.4	423	2.93	<5	1.0	2.6	92	<0.5	<0.5	<0.5	108	1.06	0.059			
3201393	Drill Core	1.35	2.4	59.4	21008.9	27560	30.7	387.1	97.4	44	8.38	479	<0.5	0.5	102	75.2	264.8	<0.5	20	0.04	0.014			
3201394	Drill Core	2.67	1.6	270.5	>40000	122153	248.7	406.1	159.3	66	18.49	1214	<0.5	<0.5	109	326.1	1716.1	<0.5	23	0.04	0.018			
3201395	Rock Pulp	0.05	7.0	1352.0	>40000	170489	196.5	22.7	112.8	3543	12.16	236	0.8	2.3	27	577.4	116.9	<0.5	12	4.36	0.027			
3201396	Drill Core	1.72	3.5	71.4	>40000	949	72.8	705.7	332.9	62	16.15	1095	0.5	<0.5	297	3.7	502.3	<0.5	31	0.10	0.052			
3201397	Drill Core	0.98	3.3	159.8	>40000	25232	241.0	620.7	220.5	48	20.94	1737	0.7	<0.5	297	73.9	3096.5	<0.5	18	0.14	0.072			
3201398	Drill Core	1.75	4.9	39.6	4008.9	15702	11.0	582.1	100.8	25	10.34	810	0.8	<0.5	137	49.7	312.2	<0.5	19	0.06	0.033			
3201399	Drill Core	2.59	2.4	187.4	>40000	126558	88.6	451.4	162.6	70	18.87	1270	0.7	<0.5	151	416.6	10395.7	<0.5	11	0.07	0.036			
3201400	Drill Core	2.01	3.0	44.6	2856.7	14042	8.6	530.1	90.5	39	13.60	554	<0.5	<0.5	204	31.7	160.5	<0.5	18	0.08	0.042			
3201401	Drill Core	2.14	3.3	53.6	925.9	677	4.4	923.5	129.0	282	13.67	724	<0.5	0.5	241	1.8	321.0	<0.5	18	0.12	0.056			
3201402	Drill Core	2.20	2.9	58.8	940.7	3068	5.2	818.5	127.2	409	15.07	681	<0.5	<0.5	307	7.7	231.7	<0.5	22	0.15	0.070			
3201403	Drill Core	1.95	5.2	71.5	1999.9	14953	12.7	1036.6	121.9	26	15.31	700	<0.5	<0.5	394	39.6	342.6	<0.5	14	0.22	0.101			
3201404	Drill Core	2.12	3.6	44.6	1094.0	1341	12.1	557.8	81.3	36	17.88	725	0.7	<0.5	178	4.3	154.1	<0.5	<10	0.11	0.050			
3201405	Drill Core	1.84	7.9	37.4	673.0	7176	6.3	391.6	72.6	29	13.00	415	<0.5	<0.5	236	24.5	82.3	<0.5	11	0.14	0.062			
3201406	Drill Core	2.31	<0.5	194.6	24413.2	176872	65.6	364.1	72.0	33	18.73	1102	0.6	<0.5	76	613.6	430.2	<0.5	14	0.02	0.015			
3201407	Drill Core	2.27	3.9	37.7	590.6	12055	4.3	602.8	77.4	3218	21.61	584	0.5	<0.5	197	35.4	137.6	<0.5	52	0.21	0.054			
3201408	Drill Core	1.65	11.0	24.0	490.9	3178	2.3	435.6	52.8	7824	26.44	448	<0.5	<0.5	249	9.5	69.4	<0.5	87	0.35	0.068			
3201409	Drill Core	1.09	1.4	60.0	706.7	29163	5.4	138.3	14.8	2422	19.51	410	1.2	0.8	345	92.8	76.6	<0.5	61	0.27	0.098			
3201410	Drill Core	1.99	3.2	73.7	3304.4	19846	16.1	372.3	59.7	371	19.39	414	<0.5	<0.5	415	71.2	102.7	<0.5	24	0.36	0.151			
3201411	Drill Core	2.50	6.0	37.1	2175.3	369	6.7	378.6	57.5	6116	23.25	246	<0.5	<0.5	310	1.0	55.6	<0.5	62	0.42	0.134			
3201412	Drill Core	1.64	19.5	35.1	520.6	3099	2.6	88.1	10.8	4442	14.06	145	3.5	<0.5	214	10.4	42.0	<0.5	115	0.28	0.103			
3201413	Drill Core	1.59	0.9	46.6	260.9	11731	3.0	85.0	10.6	2690	13.85	160	1.8	<0.5	122	48.0	41.3	<0.5	45	0.14	0.058			
3201414	Drill Core	1.79	1.2	32.7	154.6	9154	2.6	78.8	8.9	2749	10.75	101	2.1	<0.5	185	46.2	35.5	<0.5	44	0.19	0.084			
3201415	Drill Core	1.64	3.9	53.2	191.0	11623	2.6	81.1	8.6	6494	18.20	81	3.1	0.5	224	35.3	31.9	<0.5	100	0.43	0.152			
3201416	Drill Core	1.61	12.9	53.7	2576.4	18479	7.4	140.0	25.0	4025	21.02	298	4.0	0.8	149	53.8	59.9	<0.5	195	0.37	0.146			
3201417	Drill Core	1.46	5.1	28.7	660.3	5223	3.6	94.3	11.7	2962	15.11	212	2.0	<0.5	77	15.6	37.3	<0.5	128	0.17	0.067			
3201418	Drill Core	1.65	32.4	47.5	529.6	18892	4.3	117.4	13.7	1940	10.45	109	4.7	<0.5	170	56.7	50.7	<0.5	304	0.27	0.119			



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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
3201389	Drill Core	<0.5	50.9	<0.01	174	0.001	0.22	<0.01	0.05	<0.5	66.52	0.9	1.6	21.94	<5	<2	38.41	9.09	25.40	0.08	0.07
3201390	Drill Core	<0.5	15.8	<0.01	152	<0.001	0.15	<0.01	<0.01	<0.5	315.08	<0.5	2.8	20.03	17	<2	36.14	5.62	12.85	0.11	0.03
3201391	Drill Core	<0.5	12.9	<0.01	165	<0.001	0.16	<0.01	0.02	2.5	260.98	0.7	2.6	19.26	15	<2	36.79	6.64	13.62	0.06	0.04
3201392	Rock	6.8	5.5	0.86	180	0.186	1.91	0.24	0.33	<0.5	<0.05	3.5	<0.5	<0.05	6	<2	60.43	16.85	6.26	6.16	2.90
3201393	Drill Core	0.5	27.5	<0.01	195	0.001	0.19	<0.01	0.07	<0.5	41.75	0.9	2.4	11.09	<5	<2	56.97	10.54	12.19	0.09	0.06
3201394	Drill Core	<0.5	32.1	<0.01	156	<0.001	0.14	<0.01	0.04	<0.5	172.18	<0.5	3.4	29.24	7	2	10.50	4.26	26.92	0.06	0.03
3201395	Rock Pulp	6.7	14.6	2.03	182	0.006	0.43	<0.01	0.18	<0.5	2.21	1.1	63.0	19.06	<5	4	14.22	2.50	17.02	5.98	3.52
3201396	Drill Core	0.6	47.8	<0.01	196	0.002	0.22	<0.01	0.08	<0.5	4.55	1.0	2.1	19.07	<5	<2	40.04	10.54	22.75	0.17	0.06
3201397	Drill Core	<0.5	48.7	<0.01	175	0.001	0.22	<0.01	0.05	<0.5	36.40	0.7	4.7	27.41	<5	<2	15.74	5.68	29.92	0.22	0.04
3201398	Drill Core	0.7	38.5	<0.01	207	0.002	0.23	<0.01	0.07	<0.5	21.01	0.9	4.2	12.41	<5	2	58.31	9.28	15.26	0.12	0.05
3201399	Drill Core	<0.5	47.2	0.01	142	0.001	0.15	<0.01	0.04	<0.5	167.12	0.5	6.6	27.92	9	4	23.10	4.91	26.18	0.10	0.04
3201400	Drill Core	0.8	44.3	0.01	222	0.001	0.25	<0.01	0.07	<0.5	17.37	0.8	2.3	16.10	<5	<2	48.63	10.87	19.97	0.16	0.07
3201401	Drill Core	1.1	51.4	0.05	249	0.002	0.30	<0.01	0.07	<0.5	2.58	0.7	2.9	14.89	<5	<2	49.82	11.04	19.50	0.22	0.14
3201402	Drill Core	1.1	52.5	0.07	262	0.002	0.31	<0.01	0.07	<0.5	5.30	1.1	2.1	16.16	<5	<2	48.05	10.45	21.47	0.25	0.16
3201403	Drill Core	0.8	39.7	0.02	221	0.001	0.26	<0.01	0.06	<0.5	19.61	<0.5	1.4	18.04	<5	3	42.11	12.82	22.24	0.33	0.07
3201404	Drill Core	0.8	28.7	<0.01	164	0.002	0.20	<0.01	0.04	<0.5	9.51	<0.5	1.5	20.51	<5	<2	46.87	7.62	26.06	0.18	0.03
3201405	Drill Core	0.9	37.7	0.01	165	0.002	0.22	<0.01	0.05	<0.5	10.08	0.7	1.4	15.12	<5	<2	54.62	9.54	18.68	0.22	0.05
3201406	Drill Core	<0.5	21.7	<0.01	85	<0.001	0.13	<0.01	<0.01	<0.5	245.95	0.8	2.9	29.23	11	5	25.75	3.01	26.70	0.04	0.02
3201407	Drill Core	0.9	167.6	0.48	119	0.001	1.23	<0.01	0.03	<0.5	13.87	3.4	2.1	14.44	<5	2	37.45	7.91	30.92	0.30	0.84
3201408	Drill Core	2.7	195.4	0.98	162	0.002	1.07	<0.01	0.04	<0.5	4.16	10.7	1.2	7.03	<5	<2	28.32	5.73	39.61	0.51	1.64
3201409	Drill Core	1.1	34.6	0.31	113	<0.001	0.76	<0.01	0.03	<0.5	30.37	3.9	0.9	16.06	<5	3	45.99	3.95	27.63	0.37	0.57
3201410	Drill Core	0.9	56.1	0.06	205	0.002	0.38	<0.01	0.06	<0.5	27.69	1.1	1.5	21.57	<5	<2	45.49	5.05	27.62	0.50	0.15
3201411	Drill Core	0.8	114.5	0.60	169	0.002	0.83	<0.01	0.05	<0.5	0.89	7.1	1.4	9.68	<5	<2	35.20	5.91	35.30	0.60	1.02
3201412	Drill Core	1.1	20.7	0.41	202	0.001	0.33	<0.01	0.06	<0.5	5.06	4.8	0.9	5.56	<5	3	55.73	5.27	20.47	0.39	0.73
3201413	Drill Core	0.9	21.5	0.22	147	<0.001	0.39	<0.01	0.04	<0.5	13.03	4.5	0.6	8.80	<5	<2	57.78	5.71	20.21	0.22	0.43
3201414	Drill Core	0.8	24.1	0.29	237	<0.001	0.41	<0.01	0.05	<0.5	10.49	4.3	0.6	4.28	<5	<2	63.76	5.83	15.76	0.28	0.51
3201415	Drill Core	1.0	33.8	0.61	121	0.001	0.49	<0.01	0.05	<0.5	11.59	9.1	0.6	3.46	<5	3	45.19	5.66	26.40	0.59	1.04
3201416	Drill Core	1.0	59.9	0.43	222	0.003	0.78	<0.01	0.04	<0.5	21.47	5.0	1.1	13.70	<5	7	39.00	5.20	30.21	0.52	0.79
3201417	Drill Core	0.5	18.9	0.33	323	<0.001	0.45	<0.01	0.03	<0.5	6.38	3.2	1.1	9.56	<5	3	59.17	3.91	21.94	0.25	0.58
3201418	Drill Core	1.0	30.8	0.25	160	0.001	0.87	<0.01	0.07	<0.5	18.48	3.1	1.6	5.78	<5	9	62.58	5.70	14.90	0.40	0.48



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Project:

MacMillan Pass

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Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008	GC204
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	Ga
Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm
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	1
3201389	Drill Core	0.69	0.02	2.32	0.38	0.11	0.31	<0.01	0.47	4.51	15.97	99.04	0.06	0.28	22.75	0.27	<0.02	<0.08	20.33	7.25
3201390	Drill Core	0.41	0.01	1.35	0.37	0.06	0.17	0.01	2.94	21.62	12.90	100.22	0.03	0.21	21.27	0.19	<0.02	<0.08	10.82	31.35
3201391	Drill Core	0.58	0.02	1.67	0.26	0.08	0.24	0.01	3.79	17.50	12.67	98.66	0.05	0.20	20.25	0.18	<0.02	<0.08	11.24	27.03
3201392	Rock	1.56	0.13	0.56	0.14	<0.01	0.06	<0.01	<0.01	<0.01	0.83	99.25	0.03	<0.02	0.05	<0.02	<0.02	<0.08	<0.05	0.37
3201393	Drill Core	0.92	0.01	2.30	0.37	0.11	0.37	<0.01	2.10	2.73	9.14	98.78	0.06	0.28	11.61	0.25	<0.02	<0.08	9.86	5.26
3201394	Drill Core	0.32	0.02	0.81	0.15	0.05	0.14	0.02	20.16	12.09	18.78	98.84	0.02	0.16	29.07	0.12	<0.02	0.11	20.59	25.44
3201395	Rock Pulp	0.90	0.45	0.08	0.06	<0.01	0.14	0.12	12.60	16.94	13.52	93.37	<0.01	3.29	20.23	1.23	<0.02	7.50	12.35	23.63
3201396	Drill Core	0.83	0.02	2.60	0.66	0.12	0.31	<0.01	5.04	0.09	14.26	98.04	0.07	0.26	19.41	0.24	<0.02	<0.08	18.40	3.02
3201397	Drill Core	0.54	0.01	1.62	0.42	0.07	0.23	0.02	19.11	2.42	18.47	96.71	0.04	0.19	28.09	0.14	<0.02	0.12	23.84	12.77
3201398	Drill Core	0.83	0.01	2.40	0.41	0.09	0.32	<0.01	0.39	1.56	9.88	99.50	0.06	0.24	13.05	0.20	0.02	<0.08	12.17	2.64
3201399	Drill Core	0.43	0.02	1.16	0.28	0.05	0.18	0.01	5.93	12.25	17.82	96.13	0.03	0.19	28.42	0.15	<0.02	0.10	21.37	21.14
3201400	Drill Core	0.95	0.01	2.54	0.59	0.13	0.39	<0.01	0.28	1.38	12.44	98.97	0.06	0.16	16.33	0.13	<0.02	<0.08	15.50	2.50
3201401	Drill Core	1.06	0.04	3.02	0.70	0.12	0.46	<0.01	0.09	0.06	12.10	98.59	0.05	0.31	14.89	0.20	<0.02	0.33	14.56	1.00
3201402	Drill Core	0.94	0.06	2.70	0.66	0.10	0.41	<0.01	0.09	0.29	12.96	98.86	0.04	0.41	15.85	0.24	<0.02	0.54	15.45	1.21
3201403	Drill Core	1.04	0.01	3.26	0.69	0.13	0.44	<0.01	0.20	1.43	13.71	99.03	0.06	0.14	17.95	0.10	<0.02	0.08	17.10	2.56
3201404	Drill Core	0.57	<0.01	1.86	0.36	0.07	0.25	<0.01	0.11	0.13	14.63	98.90	0.04	0.17	20.72	0.15	<0.02	<0.08	20.46	0.78
3201405	Drill Core	0.66	0.01	2.10	0.45	0.08	0.27	<0.01	0.07	0.69	11.42	99.14	0.04	0.24	15.36	0.22	<0.02	<0.08	14.91	1.35
3201406	Drill Core	0.19	<0.01	0.79	0.13	0.02	0.08	0.02	2.39	17.65	18.27	99.78	0.02	0.15	30.40	0.13	<0.02	<0.08	22.24	24.49
3201407	Drill Core	0.43	0.40	1.71	0.34	0.07	0.19	<0.01	0.05	1.14	16.58	98.73	0.03	2.17	14.52	0.71	<0.02	5.31	13.16	4.10
3201408	Drill Core	0.34	0.98	1.24	0.33	0.05	0.13	<0.01	0.04	0.31	20.64	100.01	0.03	5.32	7.59	1.28	<0.02	14.75	5.71	5.63
3201409	Drill Core	0.36	0.32	0.24	0.29	0.01	0.11	<0.01	0.07	2.93	15.80	99.45	0.02	2.58	16.36	1.53	0.03	3.73	14.44	5.76
3201410	Drill Core	0.52	0.06	1.26	0.43	0.06	0.19	<0.01	0.32	1.93	15.07	99.30	0.03	0.42	22.17	0.28	<0.02	0.46	21.03	3.41
3201411	Drill Core	0.57	0.79	1.27	0.37	0.07	0.20	<0.01	0.22	0.04	18.36	100.03	0.04	3.89	10.22	1.44	<0.02	8.96	8.95	3.80
3201412	Drill Core	0.58	0.56	0.22	0.26	<0.01	0.59	<0.01	0.05	0.30	14.06	99.41	0.08	4.30	5.96	2.57	0.03	6.23	4.89	3.20
3201413	Drill Core	0.49	0.34	0.30	0.17	0.01	0.12	<0.01	0.02	1.15	12.75	100.04	0.02	2.36	9.22	1.03	<0.02	4.79	8.14	3.25
3201414	Drill Core	0.59	0.36	0.27	0.21	0.02	0.13	<0.01	0.01	0.92	10.49	99.40	0.02	2.76	4.56	1.32	0.03	5.19	3.54	3.06
3201415	Drill Core	0.44	0.82	0.27	0.39	0.01	0.09	<0.01	0.02	1.12	16.90	99.28	0.04	5.38	3.77	2.16	0.02	11.73	2.27	4.51
3201416	Drill Core	0.49	0.50	0.42	0.36	0.02	0.13	<0.01	0.25	1.76	18.14	98.33	0.09	3.96	13.75	2.23	0.02	6.26	11.89	5.57
3201417	Drill Core	0.33	0.36	0.13	0.17	<0.01	0.10	<0.01	0.07	0.52	12.56	100.25	0.06	2.32	9.70	1.01	<0.02	4.73	8.76	2.84
3201418	Drill Core	0.73	0.26	0.24	0.31	0.01	0.17	<0.01	0.06	1.87	10.96	99.19	0.19	3.71	6.24	2.72	0.03	3.50	4.97	3.82



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**Project:** MacMillan Pass  
**Report Date:** November 13, 2019

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	Method Analyte Unit MDL	GC204 Ge ppm 1
3201389	Drill Core	
3201390	Drill Core	86
3201391	Drill Core	75
3201392	Rock	
3201393	Drill Core	
3201394	Drill Core	
3201395	Rock Pulp	
3201396	Drill Core	
3201397	Drill Core	
3201398	Drill Core	
3201399	Drill Core	
3201400	Drill Core	
3201401	Drill Core	
3201402	Drill Core	
3201403	Drill Core	
3201404	Drill Core	
3201405	Drill Core	
3201406	Drill Core	
3201407	Drill Core	
3201408	Drill Core	
3201409	Drill Core	
3201410	Drill Core	
3201411	Drill Core	
3201412	Drill Core	
3201413	Drill Core	
3201414	Drill Core	
3201415	Drill Core	
3201416	Drill Core	
3201417	Drill Core	
3201418	Drill Core	



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# CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
3201419	Drill Core	2.06	7.5	62.1	2350.0	12664	9.4	111.1	13.5	2464	23.13	340	2.2	<0.5	125	34.5	54.9	<0.5	208	0.25	0.093
3201420	Rock	1.14	1.2	82.8	3.9	53	<0.5	4.1	10.2	409	2.95	<5	0.9	2.5	89	<0.5	<0.5	<0.5	104	1.00	0.064
3201421	Drill Core	2.26	13.0	76.9	971.8	30755	6.0	118.8	13.2	1047	12.67	164	4.3	0.7	235	95.1	60.9	<0.5	239	0.43	0.169
3201422	Drill Core	2.13	14.5	76.6	876.6	26753	5.2	102.1	12.5	726	10.30	146	4.4	0.7	225	86.0	57.6	<0.5	207	0.43	0.171
3201423	Drill Core	1.33	17.0	45.9	569.9	5395	3.2	61.9	9.5	2937	11.35	81	3.6	1.3	129	18.8	40.5	<0.5	152	0.24	0.079
3201424	Drill Core	1.33	0.9	14.9	1086.0	110	3.2	47.9	9.3	10483	30.23	91	1.3	0.7	99	<0.5	23.0	<0.5	167	0.38	0.052
3201425	Drill Core	2.06	1.5	16.5	612.3	2316	2.3	42.0	6.7	8885	25.33	74	2.4	0.6	184	7.0	20.6	<0.5	160	0.48	0.121
3201426	Drill Core	1.71	5.5	41.2	355.9	3390	2.3	75.6	9.3	2430	8.72	79	5.5	1.1	455	9.8	28.5	<0.5	126	0.83	0.348
3201427	Drill Core	2.00	3.8	34.0	1296.7	2534	3.8	98.5	12.7	6474	28.25	278	1.4	1.0	236	6.6	40.5	<0.5	178	0.35	0.084
3201428	Drill Core	1.33	4.6	126.9	2317.5	26698	7.5	842.6	124.7	2002	15.24	493	0.9	1.2	1744	69.6	169.8	<0.5	166	1.13	0.541
3201429	Drill Core	1.75	11.5	62.8	1554.1	13896	5.5	74.0	17.5	274	3.83	103	3.6	0.5	214	37.5	54.2	<0.5	80	0.24	0.109
3201430	Drill Core	1.77	1.7	49.6	336.0	7534	3.1	70.1	12.8	5077	19.12	132	2.5	0.7	132	19.7	47.5	<0.5	110	0.28	0.075
3201431	Drill Core	1.57	5.9	50.3	374.2	18524	3.1	73.7	13.9	3843	14.14	88	3.3	0.7	222	45.9	49.6	<0.5	154	0.40	0.137
3201432	Drill Core	1.87	6.9	59.4	405.9	20289	3.3	79.4	15.2	3223	11.86	72	3.9	1.0	315	50.3	57.0	<0.5	147	0.46	0.183
3201433	Drill Core	1.89	5.7	45.6	319.3	10637	2.5	76.3	13.0	4273	16.35	110	2.4	0.9	217	31.4	47.9	<0.5	148	0.30	0.093
3201434	Drill Core	0.98	3.6	158.3	1637.9	85985	11.0	391.4	79.3	2092	25.90	583	1.5	1.1	132	260.5	148.6	<0.5	136	0.20	0.069
3201435	Drill Core	1.30	12.9	90.8	4270.5	4813	14.6	371.1	128.9	129	14.32	1209	4.2	1.7	145	12.0	189.0	<0.5	92	0.11	0.047
3201436	Drill Core	1.38	5.8	120.3	2100.8	31779	7.6	720.7	106.7	5217	23.53	373	1.6	1.3	761	85.8	122.0	<0.5	198	0.69	0.240
3201437	Drill Core	1.37	2.7	62.2	633.9	5093	2.7	728.6	88.3	6975	26.29	429	<0.5	1.2	1100	12.8	155.9	<0.5	146	0.82	0.273
3201438	Drill Core	1.86	13.4	27.9	274.0	9592	2.3	163.5	14.7	1803	13.63	278	2.5	0.8	75	30.6	69.3	<0.5	138	0.10	0.020
3201439	Drill Core	2.25	14.3	32.3	315.2	8445	2.3	217.1	19.1	2440	16.01	273	2.8	1.0	103	26.5	71.9	<0.5	159	0.14	0.024
3201440	Rock Pulp	0.03	4.4	449.7	35690.9	49488	59.1	19.6	44.9	2277	7.32	140	1.6	6.2	24	166.6	47.4	<0.5	15	4.90	0.050
3201441	Drill Core	2.03	6.7	146.4	1282.5	59792	9.0	112.5	12.6	3684	18.95	199	5.0	1.0	421	210.7	92.4	<0.5	219	0.43	0.161
3201442	Drill Core	2.03	3.2	130.4	2087.5	38105	14.7	407.8	109.5	451	26.21	782	6.1	1.2	296	165.4	220.3	<0.5	109	0.31	0.132
3201443	Drill Core	1.97	2.6	67.9	666.0	42745	6.8	195.5	34.8	5878	26.39	245	3.9	0.8	300	143.3	82.6	<0.5	158	0.42	0.130
3201444	Drill Core	1.66	2.4	51.2	548.9	11115	6.4	148.7	21.8	3271	20.88	350	3.4	0.8	444	33.1	76.9	<0.5	99	0.48	0.153
3201445	Drill Core	2.11	3.6	55.1	714.1	12641	7.6	125.8	21.3	1575	19.08	400	2.9	<0.5	304	47.9	88.1	<0.5	97	0.31	0.116
3201446	Drill Core	2.52	3.3	51.7	309.2	17747	4.3	98.4	14.2	6307	19.06	115	4.2	0.6	600	61.3	39.5	<0.5	189	0.58	0.199
3201447	Drill Core	1.70	3.5	38.9	320.0	6692	4.3	130.1	29.5	4015	15.02	161	5.3	<0.5	430	21.5	61.7	<0.5	154	0.40	0.157
3201448	Drill Core	1.67	2.5	39.5	103.8	938	2.6	102.0	8.9	7297	20.18	71	4.3	0.8	368	4.1	29.0	<0.5	208	0.43	0.139



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Project:

MacMillan Pass

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# CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	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
3201419	Drill Core	<0.5	30.2	0.29	121	0.001	0.65	<0.01	0.04	<0.5	14.70	3.1	4.0	18.45	<5	6	39.71	3.36	34.07	0.35	0.55
3201420	Rock	6.2	5.6	0.82	211	0.180	1.82	0.24	0.36	<0.5	<0.05	3.9	<0.5	<0.05	6	<2	60.48	16.92	6.20	6.34	2.81
3201421	Drill Core	1.0	20.7	0.19	216	0.002	0.93	<0.01	0.08	<0.5	34.15	2.5	1.4	10.46	<5	10	55.04	6.40	17.90	0.60	0.39
3201422	Drill Core	1.1	17.8	0.15	207	0.002	0.82	<0.01	0.08	<0.5	30.41	2.4	1.3	8.87	<5	10	60.79	6.63	14.49	0.60	0.32
3201423	Drill Core	2.0	15.7	0.32	246	0.001	0.63	<0.01	0.10	<0.5	6.59	3.5	0.8	2.67	<5	8	61.15	6.70	16.50	0.36	0.63
3201424	Drill Core	0.9	21.8	0.96	85	<0.001	0.67	<0.01	0.04	<0.5	0.39	8.3	<0.5	3.81	<5	<2	23.72	3.74	44.96	0.54	1.64
3201425	Drill Core	1.0	19.7	0.94	126	0.003	0.43	<0.01	0.05	<0.5	2.51	6.7	<0.5	3.18	<5	<2	32.12	4.19	38.19	0.68	1.59
3201426	Drill Core	2.0	19.2	0.27	321	0.002	0.48	<0.01	0.11	<0.5	4.31	3.5	0.8	2.06	<5	7	62.55	8.35	12.64	1.17	0.57
3201427	Drill Core	1.0	30.8	0.64	141	0.001	0.41	<0.01	0.05	<0.5	3.02	6.2	0.9	13.10	<5	4	27.39	4.13	42.16	0.50	1.12
3201428	Drill Core	2.4	454.9	0.42	512	0.010	3.25	0.01	0.14	<0.5	32.27	9.9	1.5	6.50	12	3	27.76	20.49	22.03	1.62	0.79
3201429	Drill Core	0.9	18.6	0.05	193	0.001	0.39	<0.01	0.07	<0.5	17.92	1.0	0.6	3.52	<5	8	79.05	4.93	5.61	0.36	0.13
3201430	Drill Core	1.1	21.1	0.55	121	0.001	0.45	<0.01	0.05	<0.5	9.14	6.1	0.7	6.38	<5	4	47.57	4.60	28.25	0.41	0.91
3201431	Drill Core	1.1	24.0	0.40	140	0.002	0.67	<0.01	0.05	<0.5	20.27	4.0	0.7	4.31	<5	5	57.05	4.37	20.45	0.57	0.76
3201432	Drill Core	0.8	24.3	0.40	110	0.001	0.63	<0.01	0.06	<0.5	23.84	3.8	0.7	3.55	<5	6	61.17	4.47	17.44	0.66	0.70
3201433	Drill Core	0.9	26.5	0.43	125	0.001	0.52	<0.01	0.06	<0.5	12.24	3.9	0.7	6.06	<5	3	53.51	3.97	24.14	0.43	0.77
3201434	Drill Core	0.7	218.4	0.32	87	0.002	1.56	<0.01	0.03	<0.5	112.62	5.8	1.5	23.09	15	6	23.11	4.99	37.51	0.29	0.59
3201435	Drill Core	<0.5	37.5	0.05	132	<0.001	0.59	<0.01	0.06	<0.5	6.90	1.0	1.1	15.54	<5	7	57.00	5.09	21.20	0.17	0.12
3201436	Drill Core	1.6	388.7	0.65	249	0.005	2.16	<0.01	0.07	<0.5	40.95	8.5	1.2	9.17	12	4	24.06	10.70	35.26	0.98	1.07
3201437	Drill Core	1.5	380.4	0.75	270	0.006	1.75	<0.01	0.08	<0.5	6.02	13.4	1.1	6.65	5	3	19.71	11.30	39.00	1.15	1.24
3201438	Drill Core	<0.5	52.1	0.19	99	<0.001	0.57	<0.01	0.04	<0.5	10.63	1.7	0.5	10.14	<5	4	58.92	3.86	20.27	0.17	0.37
3201439	Drill Core	0.6	85.8	0.23	130	0.002	0.75	<0.01	0.04	<0.5	9.41	3.6	<0.5	10.65	<5	3	53.46	4.23	23.67	0.21	0.47
3201440	Rock Pulp	21.1	14.6	2.64	239	0.016	0.98	0.01	0.66	0.5	1.11	2.5	44.2	7.51	<5	<2	38.09	7.63	10.92	6.87	4.84
3201441	Drill Core	1.0	31.3	0.33	116	0.001	0.42	<0.01	0.04	<0.5	72.10	4.0	0.8	13.18	<5	8	40.10	3.91	27.57	0.61	0.64
3201442	Drill Core	1.1	145.9	0.10	137	0.004	1.04	<0.01	0.07	<0.5	49.24	2.2	4.3	28.35	7	4	22.07	8.08	38.20	0.43	0.20
3201443	Drill Core	0.6	125.3	0.67	106	0.001	0.88	<0.01	0.02	<0.5	53.62	7.0	1.4	14.60	5	5	25.49	4.49	38.95	0.60	1.10
3201444	Drill Core	0.8	37.2	0.28	179	0.001	0.35	<0.01	0.05	<0.5	12.31	4.3	0.5	15.20	<5	3	40.51	4.96	31.56	0.67	0.57
3201445	Drill Core	<0.5	29.5	0.15	167	<0.001	0.33	<0.01	0.03	<0.5	14.21	2.5	0.9	17.47	<5	5	46.59	3.21	28.74	0.45	0.31
3201446	Drill Core	<0.5	52.4	0.48	155	0.001	0.49	<0.01	0.05	<0.5	21.98	6.3	0.6	5.15	<5	4	44.52	3.54	28.90	0.82	0.95
3201447	Drill Core	<0.5	62.1	0.33	425	0.001	0.77	<0.01	0.04	<0.5	7.31	6.0	1.0	4.62	<5	3	54.84	4.87	22.52	0.58	0.63
3201448	Drill Core	0.8	48.8	0.61	152	0.001	0.63	<0.01	0.06	<0.5	1.18	9.3	<0.5	1.31	<5	4	43.02	4.85	29.93	0.60	1.04



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Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008	GC204
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	Ga
Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm
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	1
3201419	Drill Core	0.31	0.35	0.19	0.23	0.01	0.09	<0.01	0.24	1.23	18.58	99.64	0.09	2.82	18.66	1.54	0.02	4.61	17.30	4.07
3201420	Rock	1.54	0.13	0.52	0.14	<0.01	0.05	<0.01	<0.01	<0.01	0.83	99.25	0.02	0.04	<0.02	0.03	<0.02	<0.08	<0.05	0.23
3201421	Drill Core	0.85	0.15	0.27	0.43	<0.01	0.20	<0.01	0.10	3.01	12.43	98.64	0.17	3.27	10.95	2.68	0.03	2.03	9.27	5.04
3201422	Drill Core	0.94	0.11	0.31	0.44	0.01	0.22	<0.01	0.09	2.74	10.81	99.27	0.17	3.08	9.28	2.65	0.04	1.42	7.83	4.36
3201423	Drill Core	1.03	0.40	0.34	0.19	<0.01	0.22	<0.01	0.06	0.54	11.22	99.60	0.15	4.16	2.86	2.39	0.03	6.40	2.11	2.26
3201424	Drill Core	0.35	1.31	0.17	0.14	<0.01	0.07	<0.01	0.10	0.01	23.17	99.95	0.05	6.86	4.10	1.30	<0.02	20.35	2.71	4.17
3201425	Drill Core	0.44	1.13	0.19	0.29	<0.01	0.10	<0.01	0.06	0.23	20.83	100.15	0.06	6.34	3.51	1.57	<0.02	17.48	2.14	4.14
3201426	Drill Core	1.23	0.32	0.40	0.83	0.01	0.27	<0.01	0.03	0.33	10.14	99.07	0.10	3.70	2.19	2.41	0.03	4.62	1.61	1.74
3201427	Drill Core	0.42	0.81	0.29	0.22	0.01	0.09	<0.01	0.12	0.25	22.52	100.15	0.07	4.97	13.41	1.41	<0.02	12.97	11.83	4.74
3201428	Drill Core	2.36	0.26	5.35	1.28	0.24	0.83	<0.01	0.23	2.66	11.53	98.44	0.16	1.37	6.67	0.48	<0.02	3.22	4.98	5.05
3201429	Drill Core	0.67	0.04	0.24	0.29	0.01	0.15	<0.01	0.15	1.36	5.70	99.15	0.09	2.25	3.77	2.07	0.04	0.51	3.13	1.91
3201430	Drill Core	0.51	0.64	0.21	0.19	0.01	0.09	<0.01	0.04	0.75	15.81	100.26	0.05	4.29	6.64	1.45	0.03	10.30	5.22	4.25
3201431	Drill Core	0.50	0.49	0.22	0.35	0.01	0.11	<0.01	0.04	1.82	12.34	99.60	0.07	4.00	4.66	1.77	0.03	8.05	3.15	4.55
3201432	Drill Core	0.50	0.41	0.22	0.42	<0.01	0.10	<0.01	0.03	2.00	11.06	99.77	0.07	3.99	3.66	2.12	0.04	6.70	2.25	4.22
3201433	Drill Core	0.44	0.55	0.18	0.24	<0.01	0.11	<0.01	0.04	1.05	13.77	99.51	0.06	4.21	6.01	1.83	0.03	8.62	4.72	3.88
3201434	Drill Core	0.31	0.26	0.96	0.16	0.05	0.08	0.03	0.17	8.29	20.23	99.25	0.05	2.41	26.19	1.39	<0.02	3.69	21.49	14.12
3201435	Drill Core	0.57	0.03	0.24	0.12	0.02	0.14	<0.01	0.42	0.47	12.96	98.77	0.09	2.68	16.27	2.61	0.02	0.17	15.88	1.17
3201436	Drill Core	0.95	0.67	2.71	0.62	0.14	0.32	<0.01	0.21	3.16	17.67	99.53	0.11	4.04	8.92	1.31	<0.02	9.97	6.45	7.41
3201437	Drill Core	1.05	0.87	2.60	0.70	0.16	0.39	<0.01	0.07	0.50	19.85	98.94	0.08	4.95	6.55	1.31	<0.02	13.32	5.05	4.50
3201438	Drill Core	0.43	0.24	0.29	0.06	0.02	0.11	<0.01	0.02	0.96	13.05	99.10	0.09	4.31	10.60	3.38	0.04	3.27	9.81	2.38
3201439	Drill Core	0.44	0.32	0.40	0.08	0.03	0.11	<0.01	0.02	0.85	14.46	99.03	0.09	4.61	10.89	3.38	0.03	4.41	10.02	2.62
3201440	Rock Pulp	3.58	0.28	0.23	0.12	<0.01	0.08	0.04	3.52	4.97	16.30	99.21	0.01	3.60	7.87	0.77	<0.02	10.33	4.27	10.79
3201441	Drill Core	0.44	0.46	0.24	0.40	0.01	0.09	<0.01	0.13	5.76	16.99	98.91	0.11	4.17	14.79	2.25	0.02	6.94	11.18	10.84
3201442	Drill Core	0.68	0.05	1.79	0.35	0.09	0.26	<0.01	0.19	3.63	21.77	98.85	0.06	1.16	29.62	0.95	<0.02	0.75	27.65	5.90
3201443	Drill Core	0.31	0.73	0.78	0.37	0.04	0.08	<0.01	0.07	4.20	21.33	99.67	0.05	4.61	14.97	1.41	<0.02	11.71	11.62	10.04
3201444	Drill Core	0.49	0.42	0.34	0.49	0.02	0.17	<0.01	0.05	1.16	18.14	99.94	0.05	3.74	15.59	1.92	<0.02	6.63	14.37	3.66
3201445	Drill Core	0.29	0.21	0.18	0.33	0.01	0.07	<0.01	0.06	1.25	16.66	98.76	0.04	2.73	18.22	1.86	0.03	3.07	17.15	3.21
3201446	Drill Core	0.37	0.80	0.23	0.54	0.02	0.10	<0.01	0.03	1.78	16.71	99.84	0.07	5.54	5.25	1.93	<0.02	13.19	3.41	5.53
3201447	Drill Core	0.40	0.52	0.27	0.45	0.03	0.12	<0.01	0.04	0.67	13.48	99.67	0.05	4.36	4.71	2.17	0.04	7.86	3.66	3.17
3201448	Drill Core	0.54	0.92	0.22	0.34	0.02	0.11	<0.01	<0.01	0.09	16.99	98.77	0.06	5.99	1.21	1.54	<0.02	16.25	0.73	1.42





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**Project:** MacMillan Pass

**Report Date:** November 13, 2019

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## CERTIFICATE OF ANALYSIS

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Method	GC204
Analyte	Ge
Unit	ppm
MDL	1
3201419	Drill Core
3201420	Rock
3201421	Drill Core
3201422	Drill Core
3201423	Drill Core
3201424	Drill Core
3201425	Drill Core
3201426	Drill Core
3201427	Drill Core
3201428	Drill Core
3201429	Drill Core
3201430	Drill Core
3201431	Drill Core
3201432	Drill Core
3201433	Drill Core
3201434	Drill Core
3201435	Drill Core
3201436	Drill Core
3201437	Drill Core
3201438	Drill Core
3201439	Drill Core
3201440	Rock Pulp
3201441	Drill Core
3201442	Drill Core
3201443	Drill Core
3201444	Drill Core
3201445	Drill Core
3201446	Drill Core
3201447	Drill Core
3201448	Drill Core

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**Project:** MacMillan Pass  
**Report Date:** November 13, 2019

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# CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
3201449	Drill Core	1.46	4.0	40.9	195.6	9697	3.0	101.5	15.1	1582	8.24	146	5.3	0.7	642	27.4	50.1	<0.5	106	0.58	0.263
3201450	Drill Core	1.06	1.0	19.7	69.4	2855	1.2	88.0	7.5	9863	31.26	147	3.1	0.6	194	10.2	35.5	<0.5	217	0.34	0.079
3201451	Drill Core	1.91	7.2	77.9	267.9	581	2.4	128.5	14.0	283	7.65	91	5.5	1.6	343	1.2	38.2	<0.5	114	0.77	0.310
3201452	Drill Core	1.67	8.5	81.4	144.6	286	1.7	112.3	10.8	1408	8.37	37	5.9	1.8	600	<0.5	27.7	<0.5	105	3.55	0.372
3201453	Drill Core	2.02	9.0	101.7	185.9	455	2.2	133.0	15.0	601	7.75	67	4.8	1.9	553	0.5	36.6	<0.5	97	2.31	0.392
3201454	Drill Core	1.75	3.7	104.3	117.0	83	1.6	102.3	12.1	699	6.44	40	3.6	2.1	522	<0.5	22.3	<0.5	65	2.79	0.290
3201455	Drill Core	2.23	8.0	61.6	55.9	475	1.2	81.7	11.3	1213	4.80	22	3.3	1.7	674	2.3	19.6	<0.5	77	7.82	0.139
3201456	Drill Core	1.49	4.5	80.6	52.8	209	1.1	94.8	14.2	888	4.79	17	3.3	2.3	634	<0.5	15.3	<0.5	36	5.02	0.212
3201457	Drill Core	2.00	3.2	97.6	39.8	156	1.0	92.8	9.0	1090	4.75	13	2.9	1.7	744	<0.5	17.3	<0.5	50	6.66	0.334
3201458	Drill Core	2.15	3.4	103.6	41.3	213	1.1	88.0	8.9	1065	5.00	13	3.7	1.3	786	0.8	17.5	<0.5	53	6.99	0.432
3201459	Drill Core	1.76	5.3	43.0	37.0	53	0.8	69.2	9.7	1205	3.97	12	1.8	2.1	566	<0.5	20.3	<0.5	22	6.82	0.140
3201460	Rock	1.09	1.2	50.2	1.6	38	<0.5	4.2	9.5	431	2.91	<5	0.8	2.6	93	<0.5	<0.5	<0.5	106	1.01	0.056
3201461	Drill Core	1.49	15.5	54.1	46.6	44	1.4	55.3	10.6	1101	3.54	18	1.8	1.2	501	<0.5	37.3	<0.5	31	6.30	0.120
3201462	Drill Core	1.64	14.0	52.8	46.2	55	1.3	55.4	10.3	1144	3.68	14	2.1	1.1	504	<0.5	37.8	<0.5	32	6.75	0.117
3201463	Drill Core	1.71	12.9	41.1	30.5	32	0.9	32.5	6.9	2066	4.44	8	2.0	0.7	675	<0.5	25.3	<0.5	30	9.53	0.080
3201464	Drill Core	2.07	7.6	12.3	27.0	26	<0.5	21.8	4.8	3003	5.02	5	1.9	0.8	887	<0.5	12.0	<0.5	20	13.99	0.036
3201465	Drill Core	2.23	17.0	20.8	53.5	23	0.8	35.5	8.6	2303	4.87	11	2.5	0.8	769	<0.5	19.9	<0.5	17	10.69	0.087
3201466	Drill Core	2.08	7.8	84.2	55.6	125	1.6	99.3	11.3	1128	5.06	18	4.3	2.0	595	<0.5	34.8	<0.5	30	5.87	0.236



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**Project:** MacMillan Pass  
**Report Date:** November 13, 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
3201449	Drill Core	0.9	31.9	0.15	161	0.001	0.68	<0.01	0.06	<0.5	10.54	3.4	0.7	4.14	<5	7	68.75	5.63	12.20	0.83	0.33
3201450	Drill Core	<0.5	41.1	0.90	109	<0.001	0.84	<0.01	0.03	<0.5	2.51	11.9	<0.5	4.12	<5	<2	22.94	2.97	46.38	0.49	1.52
3201451	Drill Core	2.1	28.2	0.08	469	0.002	0.70	<0.01	0.07	<0.5	1.34	3.1	1.2	7.15	<5	9	64.44	9.91	11.28	1.07	0.25
3201452	Drill Core	2.2	23.3	1.27	382	0.002	0.49	<0.01	0.09	<0.5	0.62	5.7	1.7	5.97	<5	9	50.86	9.81	12.24	4.98	2.25
3201453	Drill Core	2.0	27.9	0.77	465	0.002	0.65	<0.01	0.10	<0.5	0.95	3.8	1.0	6.51	<5	10	55.86	10.31	11.53	3.26	1.54
3201454	Drill Core	2.2	22.6	1.05	745	0.002	0.54	<0.01	0.11	<0.5	0.57	3.9	0.8	5.88	<5	9	55.25	11.35	9.40	3.88	1.97
3201455	Drill Core	3.2	16.1	3.54	920	0.001	0.39	<0.01	0.10	<0.5	1.13	4.1	<0.5	2.85	<5	5	40.63	9.17	7.35	10.96	6.31
3201456	Drill Core	4.2	12.8	2.10	715	0.001	0.44	<0.01	0.12	<0.5	0.49	4.6	<0.5	3.04	<5	6	47.95	12.34	7.28	7.06	3.88
3201457	Drill Core	3.9	16.2	2.59	867	0.002	0.48	<0.01	0.18	<0.5	0.51	6.9	<0.5	2.98	<5	11	43.52	10.35	7.24	9.24	4.66
3201458	Drill Core	3.1	17.0	2.64	788	0.002	0.47	<0.01	0.18	<0.5	0.56	7.1	<0.5	3.34	<5	11	41.73	10.03	7.81	9.93	4.82
3201459	Drill Core	4.0	8.7	2.85	642	0.001	0.35	<0.01	0.16	<0.5	0.46	5.2	<0.5	2.18	<5	2	44.21	10.43	6.19	9.58	5.08
3201460	Rock	6.8	5.8	0.87	189	0.185	1.89	0.23	0.31	<0.5	<0.05	4.2	<0.5	<0.05	5	<2	60.47	16.82	6.29	6.17	2.86
3201461	Drill Core	1.6	8.4	2.70	724	0.001	0.33	<0.01	0.14	<0.5	0.46	4.9	0.6	1.91	<5	<2	44.59	10.27	5.49	8.83	4.86
3201462	Drill Core	1.8	7.7	2.87	683	0.001	0.32	<0.01	0.14	<0.5	0.68	5.2	0.5	1.85	<5	<2	43.59	9.94	5.56	9.26	5.02
3201463	Drill Core	1.1	8.1	3.88	678	0.001	0.23	<0.01	0.11	<0.5	0.53	4.4	<0.5	1.42	<5	<2	35.84	6.81	6.83	13.44	6.82
3201464	Drill Core	2.0	10.0	5.80	588	0.002	0.17	<0.01	0.08	<0.5	0.44	3.6	<0.5	0.82	<5	<2	20.98	4.60	7.84	20.12	10.26
3201465	Drill Core	1.6	8.6	4.63	429	0.001	0.23	<0.01	0.12	<0.5	0.48	4.3	<0.5	1.78	<5	<2	28.64	7.15	7.55	15.41	8.16
3201466	Drill Core	3.1	11.7	2.27	646	0.002	0.41	<0.01	0.17	<0.5	0.65	3.6	<0.5	3.62	<5	8	46.02	9.89	7.59	8.09	4.10



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**Project:** MacMillan Pass  
**Report Date:** November 13, 2019

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# CERTIFICATE OF ANALYSIS

WHI19000551.2

Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008	GC204
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	Ga
Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm
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	1
3201449	Drill Core	0.69	0.21	0.26	0.67	0.02	0.16	<0.01	0.01	0.96	8.57	99.62	0.07	2.98	4.13	2.13	0.03	2.97	3.43	2.09
3201450	Drill Core	0.21	1.23	0.12	0.20	0.01	0.04	<0.01	<0.01	0.28	23.59	100.11	0.04	7.40	4.17	1.12	<0.02	22.99	2.46	5.15
3201451	Drill Core	0.98	0.05	0.46	0.79	0.02	0.51	<0.01	0.03	0.06	9.92	99.93	0.08	2.83	7.16	2.71	0.03	0.32	6.95	0.61
3201452	Drill Core	1.24	0.18	0.46	0.88	0.02	0.45	<0.01	<0.01	0.03	13.58	97.16	0.08	4.82	6.31	2.96	0.03	6.69	5.57	2.22
3201453	Drill Core	1.34	0.09	0.52	0.96	0.02	0.50	<0.01	0.02	0.04	12.21	98.38	0.08	4.30	6.85	3.33	0.03	3.45	6.22	1.87
3201454	Drill Core	1.76	0.09	0.53	0.70	0.02	0.77	<0.01	0.01	<0.01	12.02	98.01	0.08	4.22	6.01	3.05	0.03	4.19	5.48	1.58
3201455	Drill Core	1.56	0.16	0.43	0.34	0.02	0.76	<0.01	<0.01	0.05	19.53	97.47	0.07	6.80	2.90	2.80	0.04	14.52	2.37	1.59
3201456	Drill Core	2.17	0.12	0.61	0.48	0.02	0.96	<0.01	<0.01	0.02	14.14	97.27	0.05	5.16	2.95	2.62	0.04	9.16	2.39	1.68
3201457	Drill Core	2.11	0.14	0.51	0.78	0.02	0.81	<0.01	<0.01	0.02	18.14	97.75	0.05	7.61	3.04	4.12	0.05	12.62	2.45	1.77
3201458	Drill Core	2.04	0.14	0.47	1.05	0.02	0.79	<0.01	<0.01	0.02	18.23	97.30	0.05	7.71	3.65	4.28	0.05	12.40	3.01	1.90
3201459	Drill Core	2.13	0.15	0.53	0.34	0.01	0.89	<0.01	<0.01	<0.01	17.44	97.22	0.03	6.87	2.34	3.18	0.04	13.35	1.97	1.11
3201460	Rock	1.49	0.14	0.53	0.14	<0.01	0.05	<0.01	<0.01	<0.01	0.80	99.09	0.03	0.04	<0.02	0.04	<0.02	<0.08	<0.05	0.10
3201461	Drill Core	2.07	0.14	0.53	0.29	0.01	0.91	<0.01	<0.01	<0.01	19.86	98.09	0.03	9.74	1.97	6.08	0.15	12.88	1.62	1.05
3201462	Drill Core	1.99	0.16	0.51	0.29	0.01	0.88	<0.01	<0.01	<0.01	20.22	97.64	0.03	9.59	1.88	6.08	0.13	12.42	1.53	1.04
3201463	Drill Core	1.35	0.28	0.31	0.21	<0.01	0.62	<0.01	<0.01	<0.01	25.40	98.02	0.03	11.30	1.42	6.66	0.10	16.62	1.09	0.99
3201464	Drill Core	0.95	0.41	0.22	0.10	<0.01	0.37	<0.01	<0.01	<0.01	33.29	99.21	0.01	12.73	0.85	4.35	0.06	30.48	0.59	0.78
3201465	Drill Core	1.51	0.30	0.38	0.20	<0.01	0.54	<0.01	<0.01	<0.01	28.48	98.43	0.02	12.44	2.01	6.11	0.08	22.90	1.62	1.18
3201466	Drill Core	2.09	0.14	0.51	0.54	0.02	0.76	<0.01	<0.01	0.01	16.13	96.06	0.05	7.09	3.79	4.50	0.12	9.05	3.23	1.66



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**Project:** MacMillan Pass  
**Report Date:** November 13, 2019

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## CERTIFICATE OF ANALYSIS

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Method	GC204
Analyte	Ge
Unit	ppm
MDL	1
3201449	Drill Core
3201450	Drill Core
3201451	Drill Core
3201452	Drill Core
3201453	Drill Core
3201454	Drill Core
3201455	Drill Core
3201456	Drill Core
3201457	Drill Core
3201458	Drill Core
3201459	Drill Core
3201460	Rock
3201461	Drill Core
3201462	Drill Core
3201463	Drill Core
3201464	Drill Core
3201465	Drill Core
3201466	Drill Core



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## QUALITY CONTROL REPORT

WHI19000551.2

	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
3201340	Rock	1.22	1.0	52.3	3.9	52	<0.5	3.7	9.3	436	3.04	<5	0.8	2.2	101	<0.5	<0.5	<0.5	108	1.23	0.066
3201411	Drill Core	2.50	6.0	37.1	2175.3	369	6.7	378.6	57.5	6116	23.25	246	<0.5	<0.5	310	1.0	55.6	<0.5	62	0.42	0.134
3201446	Drill Core	2.52	3.3	51.7	309.2	17747	4.3	98.4	14.2	6307	19.06	115	4.2	0.6	600	61.3	39.5	<0.5	189	0.58	0.199
Pulp Duplicates																					
3201330	Drill Core	2.21	6.6	119.0	3216.3	37051	20.2	54.2	11.5	75	20.97	374	0.6	<0.5	115	201.6	125.9	<0.5	17	0.06	0.031
REP 3201330	QC																				
REP 3201345	QC																				
3201346	Drill Core	1.68	36.8	52.0	560.0	6084	4.6	252.1	20.2	48	11.97	287	9.1	0.6	232	24.9	97.2	<0.5	165	0.10	0.063
REP 3201346	QC																				
3201350	Drill Core	1.91	28.3	45.9	704.9	8652	4.2	142.3	9.3	42	13.17	230	2.8	<0.5	99	27.2	89.9	<0.5	59	0.04	0.021
REP 3201350	QC																				
3201356	Drill Core	1.47	28.6	52.0	693.3	15023	3.6	187.9	12.5	28	5.81	184	2.9	<0.5	138	28.5	75.3	<0.5	43	0.05	0.037
REP 3201356	QC		27.8	49.8	698.6	14558	3.5	189.2	11.9	28	5.68	175	2.6	<0.5	131	28.5	72.8	<0.5	44	0.05	0.035
3201369	Drill Core	1.60	4.5	43.3	3107.2	325	7.8	237.2	43.7	42	12.70	431	0.8	<0.5	162	0.9	129.3	<0.5	34	0.07	0.039
REP 3201369	QC																				
3201375	Drill Core	2.17	1.2	68.5	21531.0	20003	32.0	341.9	68.1	25	21.02	886	<0.5	<0.5	398	54.9	343.5	<0.5	25	0.15	0.071
REP 3201375	QC																				
REP 3201379	QC																				
3201384	Drill Core	1.83	1.2	114.6	35056.1	64123	59.1	447.1	107.4	34	24.74	1133	0.9	<0.5	340	290.4	472.6	<0.5	30	0.14	0.071
REP 3201384	QC																				
3201385	Drill Core	1.79	1.7	58.2	11274.3	32573	19.5	389.5	84.8	25	13.09	670	<0.5	<0.5	229	131.6	187.5	<0.5	23	0.10	0.051
REP 3201385	QC																				
3201390	Drill Core	2.02	2.6	202.5	28234.7>200000	70.8	341.0	67.1	41	9.07	591	<0.5	<0.5	192	717.6	480.8	<0.5	19	0.06	0.047	
REP 3201390	QC		2.7	190.6	28463.6>200000	70.3	318.6	71.8	45	9.05	601	<0.5	<0.5	199	701.7	480.1	<0.5	19	0.06	0.040	
3201403	Drill Core	1.95	5.2	71.5	1999.9	14953	12.7	1036.6	121.9	26	15.31	700	<0.5	<0.5	394	39.6	342.6	<0.5	14	0.22	0.101
REP 3201403	QC																				
3201409	Drill Core	1.09	1.4	60.0	706.7	29163	5.4	138.3	14.8	2422	19.51	410	1.2	0.8	345	92.8	76.6	<0.5	61	0.27	0.098
REP 3201409	QC																				
3201414	Drill Core	1.79	1.2	32.7	154.6	9154	2.6	78.8	8.9	2749	10.75	101	2.1	<0.5	185	46.2	35.5	<0.5	44	0.19	0.084



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**Project:**

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## QUALITY CONTROL REPORT

WHI19000551.2

	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	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	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
3201340	Rock	6.6	5.7	0.86	195	0.192	2.17	0.33	0.35	<0.5	<0.05	5.1	<0.5	<0.05	6	<2	60.47	16.69	6.17	6.27	2.81
3201411	Drill Core	0.8	114.5	0.60	169	0.002	0.83	<0.01	0.05	<0.5	0.89	7.1	1.4	9.68	<5	<2	35.20	5.91	35.30	0.60	1.02
3201446	Drill Core	<0.5	52.4	0.48	155	0.001	0.49	<0.01	0.05	<0.5	21.98	6.3	0.6	5.15	<5	4	44.52	3.54	28.90	0.82	0.95
Pulp Duplicates																					
3201330	Drill Core	<0.5	12.5	<0.01	149	<0.001	0.15	<0.01	0.04	<0.5	59.18	0.6	9.0	25.22	<5	2	43.56	2.00	30.94	0.10	0.05
REP 3201330	QC																43.55	1.98	31.12	0.10	0.04
REP 3201345	QC																				
3201346	Drill Core	1.2	37.9	<0.01	305	0.002	0.27	<0.01	0.07	<0.5	11.97	1.8	2.7	13.44	<5	7	64.31	3.57	17.27	0.16	0.07
REP 3201346	QC																64.41	3.56	17.17	0.17	0.07
3201350	Drill Core	0.7	17.1	<0.01	316	<0.001	0.26	<0.01	0.08	<0.5	15.60	1.2	2.6	15.03	<5	3	60.18	5.01	18.66	0.07	0.11
REP 3201350	QC																				
3201356	Drill Core	0.6	17.6	<0.01	314	<0.001	0.21	<0.01	0.06	<0.5	25.13	0.9	1.6	7.04	<5	2	75.06	4.91	8.39	0.09	0.09
REP 3201356	QC	0.7	16.3	<0.01	301	<0.001	0.21	<0.01	0.06	<0.5	24.07	1.0	1.5	6.86	<5	3					
3201369	Drill Core	<0.5	7.9	<0.01	119	<0.001	0.09	<0.01	0.02	<0.5	1.98	<0.5	1.3	14.40	<5	6	67.50	2.18	18.93	0.11	0.03
REP 3201369	QC																67.53	2.18	19.01	0.11	0.04
3201375	Drill Core	0.7	39.7	<0.01	137	0.002	0.12	<0.01	0.01	<0.5	32.92	<0.5	2.6	24.42	<5	2	37.29	5.80	30.89	0.21	0.02
REP 3201375	QC																37.60	5.86	31.34	0.21	0.03
REP 3201379	QC																				
3201384	Drill Core	0.6	40.6	<0.01	123	0.002	0.14	<0.01	0.01	<0.5	97.50	0.5	6.7	>30	<5	3	25.55	3.53	36.14	0.20	0.02
REP 3201384	QC																				
3201385	Drill Core	0.7	35.2	<0.01	185	0.002	0.16	<0.01	0.03	<0.5	47.96	0.7	2.2	16.58	<5	<2	51.70	7.92	18.50	0.16	0.04
REP 3201385	QC																				
3201390	Drill Core	<0.5	15.8	<0.01	152	<0.001	0.15	<0.01	<0.01	<0.5	315.08	<0.5	2.8	20.03	17	<2	36.14	5.62	12.85	0.11	0.03
REP 3201390	QC	<0.5	17.5	<0.01	160	<0.001	0.16	<0.01	<0.01	<0.5	316.64	<0.5	2.3	20.24	18	<2					
3201403	Drill Core	0.8	39.7	0.02	221	0.001	0.26	<0.01	0.06	<0.5	19.61	<0.5	1.4	18.04	<5	3	42.11	12.82	22.24	0.33	0.07
REP 3201403	QC																42.13	12.76	22.24	0.35	0.07
3201409	Drill Core	1.1	34.6	0.31	113	<0.001	0.76	<0.01	0.03	<0.5	30.37	3.9	0.9	16.06	<5	3	45.99	3.95	27.63	0.37	0.57
REP 3201409	QC																45.97	3.90	27.57	0.39	0.56
3201414	Drill Core	0.8	24.1	0.29	237	<0.001	0.41	<0.01	0.05	<0.5	10.49	4.3	0.6	4.28	<5	<2	63.76	5.83	15.76	0.28	0.51



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**Project:** MacMillan Pass  
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	Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008	GC204		
	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	Ga	
	Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	
	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	1	
3201340	Rock	1.47	0.13	0.51	0.14	<0.01	0.04	<0.01	<0.01	<0.01	0.82	98.80	0.03	0.03	<0.02	0.03	<0.02	<0.08	<0.05	0.17		
3201411	Drill Core	0.57	0.79	1.27	0.37	0.07	0.20	<0.01	0.22	0.04	18.36	100.03	0.04	3.89	10.22	1.44	<0.02	8.96	8.95	3.80		
3201446	Drill Core	0.37	0.80	0.23	0.54	0.02	0.10	<0.01	0.03	1.78	16.71	99.84	0.07	5.54	5.25	1.93	<0.02	13.19	3.41	5.53		
Pulp Duplicates																						
3201330	Drill Core	0.31	0.02	0.14	0.11	<0.01	0.27	<0.01	0.31	3.94	17.09	99.94	0.02	0.39	27.14	0.38	<0.02	<0.08	25.16	5.95		
REP 3201330	QC	0.31	0.02	0.12	0.11	<0.01	0.27	<0.01	0.31	3.91	17.09	100.02	0.02									
REP 3201345	QC																	0.05				
3201346	Drill Core	0.59	0.01	0.56	0.23	0.03	0.32	<0.01	0.06	0.59	11.33	99.32	0.17	2.13	14.64	2.08	0.04	<0.08	14.23	1.23		
REP 3201346	QC	0.58	0.01	0.56	0.23	0.02	0.31	<0.01	0.05	0.59	11.33	99.29	0.17									
3201350	Drill Core	0.84	0.01	0.26	0.16	0.01	0.29	<0.01	0.07	0.83	12.12	98.94	0.10	1.68	16.12	1.62	0.06	<0.08	15.59	1.60		
REP 3201350	QC													1.69	15.97				<0.08	1.55		
3201356	Drill Core	0.68	0.01	0.43	0.28	0.03	0.31	<0.01	0.07	1.44	7.10	99.33	0.08	1.70	7.77	1.59	0.10	<0.08	7.03	2.21		
REP 3201356	QC																					
3201369	Drill Core	0.21	0.02	0.08	0.13	<0.01	0.08	<0.01	0.30	0.03	10.06	99.71	0.03	0.41	14.95	0.38	0.02	<0.08	14.74	0.62		
REP 3201369	QC	0.20	0.02	0.07	0.14	<0.01	0.09	<0.01	0.30	0.04	10.06	99.83	0.03									
3201375	Drill Core	0.21	0.02	1.29	0.35	0.06	0.15	<0.01	2.13	1.93	17.48	98.48	0.03	0.12	26.05	0.09	<0.02	<0.08	24.66	4.16		
REP 3201375	QC	0.22	0.01	1.32	0.36	0.07	0.15	<0.01	2.18	1.95	17.48	99.45	0.03									
REP 3201379	QC																	<0.02				
3201384	Drill Core	0.13	0.01	0.82	0.27	0.04	0.10	<0.01	3.44	6.25	20.71	99.02	0.01	0.11	32.50	0.09	<0.02	<0.08	28.93	10.71		
REP 3201384	QC													0.12	33.05							10.82
3201385	Drill Core	0.45	0.01	1.91	0.39	0.09	0.27	<0.01	1.09	3.13	11.78	98.32	0.04	0.13	16.87	0.11	<0.02	<0.08	15.08	5.38		
REP 3201385	QC																	<0.08				
3201390	Drill Core	0.41	0.01	1.35	0.37	0.06	0.17	0.01	2.94	21.62	12.90	100.22	0.03	0.21	21.27	0.19	<0.02	<0.08	10.82	31.35	33	
REP 3201390	QC																					
3201403	Drill Core	1.04	0.01	3.26	0.69	0.13	0.44	<0.01	0.20	1.43	13.71	99.03	0.06	0.14	17.95	0.10	<0.02	0.08	17.10	2.56		
REP 3201403	QC	1.04	0.01	3.28	0.69	0.13	0.44	<0.01	0.20	1.45	13.71	99.10	0.05									
3201409	Drill Core	0.36	0.32	0.24	0.29	0.01	0.11	<0.01	0.07	2.93	15.80	99.45	0.02	2.58	16.36	1.53	0.03	3.73	14.44	5.76		
REP 3201409	QC	0.38	0.33	0.26	0.30	0.01	0.10	<0.01	0.07	2.91	15.80	99.33	0.02									
3201414	Drill Core	0.59	0.36	0.27	0.21	0.02	0.13	<0.01	0.01	0.92	10.49	99.40	0.02	2.76	4.56	1.32	0.03	5.19	3.54	3.06		





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	Method Analyte Unit MDL	GC204 Ge ppm 1
3201340	Rock	
3201411	Drill Core	
3201446	Drill Core	
Pulp Duplicates		
3201330	Drill Core	
REP 3201330	QC	
REP 3201345	QC	
3201346	Drill Core	
REP 3201346	QC	
3201350	Drill Core	
REP 3201350	QC	
3201356	Drill Core	
REP 3201356	QC	
3201369	Drill Core	
REP 3201369	QC	
3201375	Drill Core	
REP 3201375	QC	
REP 3201379	QC	
3201384	Drill Core	
REP 3201384	QC	
3201385	Drill Core	
REP 3201385	QC	
3201390	Drill Core	86
REP 3201390	QC	
3201403	Drill Core	
REP 3201403	QC	
3201409	Drill Core	
REP 3201409	QC	
3201414	Drill Core	



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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 3201414	QC																				
3201419	Drill Core	2.06	7.5	62.1	2350.0	12664	9.4	111.1	13.5	2464	23.13	340	2.2	<0.5	125	34.5	54.9	<0.5	208	0.25	0.093
REP 3201419	QC																				
3201420	Rock	1.14	1.2	82.8	3.9	53	<0.5	4.1	10.2	409	2.95	<5	0.9	2.5	89	<0.5	<0.5	<0.5	104	1.00	0.064
REP 3201420	QC																				
3201425	Drill Core	2.06	1.5	16.5	612.3	2316	2.3	42.0	6.7	8885	25.33	74	2.4	0.6	184	7.0	20.6	<0.5	160	0.48	0.121
REP 3201425	QC		1.4	16.3	607.0	2340	2.3	39.5	6.8	8914	25.55	75	2.4	0.6	184	7.0	20.0	<0.5	163	0.48	0.124
3201437	Drill Core	1.37	2.7	62.2	633.9	5093	2.7	728.6	88.3	6975	26.29	429	<0.5	1.2	1100	12.8	155.9	<0.5	146	0.82	0.273
REP 3201437	QC																				
3201443	Drill Core	1.97	2.6	67.9	666.0	42745	6.8	195.5	34.8	5878	26.39	245	3.9	0.8	300	143.3	82.6	<0.5	158	0.42	0.130
REP 3201443	QC																				
3201449	Drill Core	1.46	4.0	40.9	195.6	9697	3.0	101.5	15.1	1582	8.24	146	5.3	0.7	642	27.4	50.1	<0.5	106	0.58	0.263
REP 3201449	QC																				
3201454	Drill Core	1.75	3.7	104.3	117.0	83	1.6	102.3	12.1	699	6.44	40	3.6	2.1	522	<0.5	22.3	<0.5	65	2.79	0.290
REP 3201454	QC																				
3201455	Drill Core	2.23	8.0	61.6	55.9	475	1.2	81.7	11.3	1213	4.80	22	3.3	1.7	674	2.3	19.6	<0.5	77	7.82	0.139
REP 3201455	QC																				
3201460	Rock	1.09	1.2	50.2	1.6	38	<0.5	4.2	9.5	431	2.91	<5	0.8	2.6	93	<0.5	<0.5	<0.5	106	1.01	0.056
REP 3201460	QC		1.1	55.4	1.7	40	<0.5	4.6	9.4	443	2.91	<5	0.9	2.9	97	<0.5	<0.5	<0.5	105	1.02	0.056
3201464	Drill Core	2.07	7.6	12.3	27.0	26	<0.5	21.8	4.8	3003	5.02	5	1.9	0.8	887	<0.5	12.0	<0.5	20	13.99	0.036
REP 3201464	QC																				
Core Reject Duplicates																					
3201345	Drill Core	2.09	30.4	69.4	1208.3	31887	8.2	189.8	15.8	45	15.85	300	4.8	<0.5	124	108.1	96.6	<0.5	87	0.06	0.035
DUP 3201345	QC		30.3	67.9	1196.4	29003	7.9	185.1	15.7	42	15.96	288	4.4	<0.5	111	107.6	90.7	<0.5	87	0.06	0.034
3201379	Drill Core	2.54	0.7	187.9	>40000	77360	66.0	235.3	67.7	40	26.73	982	<0.5	<0.5	298	244.4	1170.6	<0.5	24	0.14	0.072
DUP 3201379	QC		0.8	185.1	>40000	75850	65.1	238.6	69.0	40	26.88	991	<0.5	<0.5	296	240.3	1144.1	<0.5	25	0.14	0.065
3201413	Drill Core	1.59	0.9	46.6	260.9	11731	3.0	85.0	10.6	2690	13.85	160	1.8	<0.5	122	48.0	41.3	<0.5	45	0.14	0.058
DUP 3201413	QC		0.8	50.9	264.2	12340	3.3	81.9	11.3	2992	14.96	176	1.8	<0.5	124	54.8	45.2	<0.5	45	0.14	0.053
3201447	Drill Core	1.70	3.5	38.9	320.0	6692	4.3	130.1	29.5	4015	15.02	161	5.3	<0.5	430	21.5	61.7	<0.5	154	0.40	0.157



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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 3201414	QC																				
3201419	Drill Core	<0.5	30.2	0.29	121	0.001	0.65	<0.01	0.04	<0.5	14.70	3.1	4.0	18.45	<5	6	39.71	3.36	34.07	0.35	0.55
REP 3201419	QC																				
3201420	Rock	6.2	5.6	0.82	211	0.180	1.82	0.24	0.36	<0.5	<0.05	3.9	<0.5	<0.05	6	<2	60.48	16.92	6.20	6.34	2.81
REP 3201420	QC																				
3201425	Drill Core	1.0	19.7	0.94	126	0.003	0.43	<0.01	0.05	<0.5	2.51	6.7	<0.5	3.18	<5	<2	32.12	4.19	38.19	0.68	1.59
REP 3201425	QC	1.1	20.3	0.94	124	0.001	0.42	<0.01	0.05	<0.5	2.58	6.1	<0.5	3.19	<5	2					
3201437	Drill Core	1.5	380.4	0.75	270	0.006	1.75	<0.01	0.08	<0.5	6.02	13.4	1.1	6.65	5	3	19.71	11.30	39.00	1.15	1.24
REP 3201437	QC																				
3201443	Drill Core	0.6	125.3	0.67	106	0.001	0.88	<0.01	0.02	<0.5	53.62	7.0	1.4	14.60	5	5	25.49	4.49	38.95	0.60	1.10
REP 3201443	QC																				
3201449	Drill Core	0.9	31.9	0.15	161	0.001	0.68	<0.01	0.06	<0.5	10.54	3.4	0.7	4.14	<5	7	68.75	5.63	12.20	0.83	0.33
REP 3201449	QC																				
3201454	Drill Core	2.2	22.6	1.05	745	0.002	0.54	<0.01	0.11	<0.5	0.57	3.9	0.8	5.88	<5	9	55.25	11.35	9.40	3.88	1.97
REP 3201454	QC																				
3201455	Drill Core	3.2	16.1	3.54	920	0.001	0.39	<0.01	0.10	<0.5	1.13	4.1	<0.5	2.85	<5	5	40.63	9.17	7.35	10.96	6.31
REP 3201455	QC																				
3201460	Rock	6.8	5.8	0.87	189	0.185	1.89	0.23	0.31	<0.5	<0.05	4.2	<0.5	<0.05	5	<2	60.47	16.82	6.29	6.17	2.86
REP 3201460	QC	7.1	6.8	0.87	182	0.186	1.90	0.24	0.31	<0.5	0.07	3.1	<0.5	<0.05	5	<2					
3201464	Drill Core	2.0	10.0	5.80	588	0.002	0.17	<0.01	0.08	<0.5	0.44	3.6	<0.5	0.82	<5	<2	20.98	4.60	7.84	20.12	10.26
REP 3201464	QC																				
Core Reject Duplicates																					
3201345	Drill Core	0.7	21.4	<0.01	295	<0.001	0.18	<0.01	0.05	<0.5	48.85	1.1	2.4	18.98	<5	6	53.43	3.11	22.98	0.10	0.05
DUP 3201345	QC	0.6	21.9	<0.01	251	<0.001	0.18	<0.01	0.05	<0.5	47.69	0.9	2.5	19.14	<5	5	53.46	3.16	22.97	0.10	0.06
3201379	Drill Core	<0.5	24.4	<0.01	56	0.001	0.06	<0.01	<0.01	<0.5	110.24	<0.5	2.7	>30	6	3	21.48	1.55	39.09	0.20	<0.01
DUP 3201379	QC	<0.5	27.5	<0.01	63	0.001	0.07	<0.01	<0.01	<0.5	111.55	<0.5	3.0	>30	6	<2	21.91	1.56	38.17	0.19	0.02
3201413	Drill Core	0.9	21.5	0.22	147	<0.001	0.39	<0.01	0.04	<0.5	13.03	4.5	0.6	8.80	<5	<2	57.78	5.71	20.21	0.22	0.43
DUP 3201413	QC	1.0	22.2	0.24	170	<0.001	0.42	<0.01	0.04	<0.5	14.47	4.7	0.7	9.19	<5	<2	56.77	5.35	20.81	0.20	0.46
3201447	Drill Core	<0.5	62.1	0.33	425	0.001	0.77	<0.01	0.04	<0.5	7.31	6.0	1.0	4.62	<5	3	54.84	4.87	22.52	0.58	0.63



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**Project:**

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## QUALITY CONTROL REPORT

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		LF725 K2O %	LF725 MnO %	LF725 TiO2 %	LF725 P2O5 %	LF725 Cr2O3 %	LF725 Ba %	LF725 Cu %	LF725 Pb %	LF725 Zn %	LF725 LOI %	LF725 SUM_T %	LF725 V2O5 %	TC000 TOT/C %	TC000 TOT/S %	TC005 C/ORG %	TC005 C/GRA %	TC006 CO2 %	TC008 S/S- %	TC008 SO4 %	GC204 Ga ppm
		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	1
REP 3201414	QC																	0.03			
3201419	Drill Core	0.31	0.35	0.19	0.23	0.01	0.09	<0.01	0.24	1.23	18.58	99.64	0.09	2.82	18.66	1.54	0.02	4.61	17.30	4.07	
REP 3201419	QC													2.80	18.16					3.96	
3201420	Rock	1.54	0.13	0.52	0.14	<0.01	0.05	<0.01	<0.01	<0.01	0.83	99.25	0.02	0.04	<0.02	0.03	<0.02	<0.08	<0.05	0.23	
REP 3201420	QC																	<0.08			
3201425	Drill Core	0.44	1.13	0.19	0.29	<0.01	0.10	<0.01	0.06	0.23	20.83	100.15	0.06	6.34	3.51	1.57	<0.02	17.48	2.14	4.14	
REP 3201425	QC																				
3201437	Drill Core	1.05	0.87	2.60	0.70	0.16	0.39	<0.01	0.07	0.50	19.85	98.94	0.08	4.95	6.55	1.31	<0.02	13.32	5.05	4.50	17
REP 3201437	QC	1.04	0.87	2.60	0.69	0.16	0.38	<0.01	0.07	0.50	19.85	98.66	0.08								
3201443	Drill Core	0.31	0.73	0.78	0.37	0.04	0.08	<0.01	0.07	4.20	21.33	99.67	0.05	4.61	14.97	1.41	<0.02	11.71	11.62	10.04	
REP 3201443	QC	0.31	0.73	0.76	0.37	0.04	0.09	<0.01	0.07	4.14	21.33	99.04	0.05								
3201449	Drill Core	0.69	0.21	0.26	0.67	0.02	0.16	<0.01	0.01	0.96	8.57	99.62	0.07	2.98	4.13	2.13	0.03	2.97	3.43	2.09	
REP 3201449	QC																	0.03			
3201454	Drill Core	1.76	0.09	0.53	0.70	0.02	0.77	<0.01	0.01	<0.01	12.02	98.01	0.08	4.22	6.01	3.05	0.03	4.19	5.48	1.58	
REP 3201454	QC													3.72	5.73					1.86	
3201455	Drill Core	1.56	0.16	0.43	0.34	0.02	0.76	<0.01	<0.01	0.05	19.53	97.47	0.07	6.80	2.90	2.80	0.04	14.52	2.37	1.59	
REP 3201455	QC																	16.10			
3201460	Rock	1.49	0.14	0.53	0.14	<0.01	0.05	<0.01	<0.01	<0.01	0.80	99.09	0.03	0.04	<0.02	0.04	<0.02	<0.08	<0.05	0.10	
REP 3201460	QC																				
3201464	Drill Core	0.95	0.41	0.22	0.10	<0.01	0.37	<0.01	<0.01	<0.01	33.29	99.21	0.01	12.73	0.85	4.35	0.06	30.48	0.59	0.78	
REP 3201464	QC	0.93	0.41	0.22	0.09	0.01	0.38	<0.01	<0.01	<0.01	33.29	99.02	0.01								
Core Reject Duplicates																					
3201345	Drill Core	0.50	0.01	0.34	0.14	0.02	0.30	<0.01	0.11	3.03	14.47	99.46	0.11	1.71	20.84	1.62	0.09	<0.08	19.18	4.99	
DUP 3201345	QC	0.50	0.01	0.34	0.14	0.02	0.29	<0.01	0.12	3.01	14.46	99.51	0.11	1.76	21.01	1.70	0.06	<0.08	19.39	4.85	
3201379	Drill Core	0.05	0.01	0.40	0.23	0.01	0.05	0.01	4.33	7.65	22.12	99.41	<0.01	0.10	36.15	0.08	<0.02	<0.08	31.69	13.39	
DUP 3201379	QC	0.05	0.01	0.41	0.22	0.02	0.04	0.01	4.15	7.28	21.96	98.11	<0.01	0.11	36.41	0.09	<0.02	<0.08	32.06	13.05	
3201413	Drill Core	0.49	0.34	0.30	0.17	0.01	0.12	<0.01	0.02	1.15	12.75	100.04	0.02	2.36	9.22	1.03	<0.02	4.79	8.14	3.25	
DUP 3201413	QC	0.46	0.37	0.25	0.15	<0.01	0.12	<0.01	0.03	1.15	12.85	99.34	0.02	2.49	9.12	1.15	<0.02	4.83	7.96	3.47	
3201447	Drill Core	0.40	0.52	0.27	0.45	0.03	0.12	<0.01	0.04	0.67	13.48	99.67	0.05	4.36	4.71	2.17	0.04	7.86	3.66	3.17	



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		GC204 Ge ppm 1
REP 3201414	QC	
3201419	Drill Core	
REP 3201419	QC	
3201420	Rock	
REP 3201420	QC	
3201425	Drill Core	
REP 3201425	QC	
3201437	Drill Core	8
REP 3201437	QC	
3201443	Drill Core	
REP 3201443	QC	
3201449	Drill Core	
REP 3201449	QC	
3201454	Drill Core	
REP 3201454	QC	
3201455	Drill Core	
REP 3201455	QC	
3201460	Rock	
REP 3201460	QC	
3201464	Drill Core	
REP 3201464	QC	
Core Reject Duplicates		
3201345	Drill Core	
DUP 3201345	QC	
3201379	Drill Core	
DUP 3201379	QC	
3201413	Drill Core	
DUP 3201413	QC	
3201447	Drill Core	



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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
DUP 3201447	QC		3.0	39.0	324.7	7234	4.3	132.5	26.6	3936	15.28	152	4.7	0.5	411	24.0	60.6	<0.5	150	0.39	0.162
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 GBM309-15	Standard																				
STD GBM309-15	Standard																				
STD GBM309-15	Standard																				
STD GBM309-15	Standard																				
STD GG-3	Standard																				
STD GG-3	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																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				



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		AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01	0.01
DUP 3201447	QC	<0.5	64.2	0.34	418	0.001	0.75	<0.01	0.03	<0.5	8.12	6.2	1.0	4.99	<5	5	54.86	4.78	22.68	0.55	0.65
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 GBM309-15	Standard																				
STD GBM309-15	Standard																				
STD GBM309-15	Standard																				
STD GBM309-15	Standard																				
STD GG-3	Standard																				
STD GG-3	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																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				



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## QUALITY CONTROL REPORT

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		LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008	GC204		
		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	Ga	
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	
		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	1	
DUP 3201447	QC	0.39	0.50	0.25	0.42	0.07	0.12	<0.01	0.03	0.73	13.44	99.71	0.06	4.41	5.33	2.23	0.04	7.83	4.27	3.19		
Reference Materials																						
STD COO1	Standard																		2.37			
STD COO1	Standard																		2.23			
STD COO1	Standard																		2.48			
STD COO1	Standard																		2.43			
STD COO2	Standard																		3.53			
STD COO2	Standard																		3.32			
STD COO2	Standard																		3.66			
STD COO2	Standard																		3.66			
STD GBM309-15	Standard													0.18	28.06							
STD GBM309-15	Standard													0.20	28.11							
STD GBM309-15	Standard													0.18	27.47							
STD GBM309-15	Standard													0.21	27.67							
STD GG-3	Standard																				367	
STD GG-3	Standard																				370	
STD GGC-10	Standard																4.72					
STD GGC-10	Standard																4.40					
STD GGC-10	Standard																5.01					
STD GGC-10	Standard																4.80					
STD GGC-10	Standard																4.44					
STD GGC-10	Standard																4.40					
STD GGC-10	Standard																4.63					
STD GGC-10	Standard																4.55					
STD GS311-1	Standard													0.93	2.24							
STD GS311-1	Standard													1.07	2.16							
STD GS311-1	Standard													1.06	2.26							
STD GS311-1	Standard													0.98	2.49							
STD GS910-4	Standard													2.56	8.86							





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## QUALITY CONTROL REPORT

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		GC204 Ge ppm 1
DUP 3201447	QC	
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 GBM309-15	Standard	
STD GBM309-15	Standard	
STD GBM309-15	Standard	
STD GBM309-15	Standard	
STD GG-3	Standard	555
STD GG-3	Standard	541
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	
STD GS311-1	Standard	
STD GS311-1	Standard	
STD GS311-1	Standard	
STD GS910-4	Standard	



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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 GS910-4	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS135	Standard		8.3	314.3	16810.6	28388	56.7	36.4	29.6	3921	8.93	912	8.9	11.1	27	65.1	38.9	5.1	39	1.80	0.088
STD OREAS135	Standard		8.4	308.4	16818.1	27895	58.4	37.3	31.1	3981	8.86	920	8.8	10.9	26	63.4	38.9	4.8	39	1.80	0.082
STD OREAS605	Standard		5.3	47973.6	851.4	2194	977.3	1547.0	93.5	83	3.60	1706	0.9	2.3	48	13.0	285.5	19.6	<10	0.18	0.013
STD OREAS605	Standard		4.8	48459.1	836.8	2203	989.8	1561.2	97.1	84	3.65	1708	0.8	2.6	49	12.2	279.7	18.4	<10	0.18	0.011
STD OREAS605	Standard		4.7	48887.0	854.9	2124	962.5	1545.8	90.4	79	3.71	1670	0.9	2.3	43	14.0	251.6	16.6	<10	0.18	0.009
STD OREAS605	Standard		5.2	48855.6	858.5	2161	940.5	1526.7	98.4	86	3.75	1688	0.8	2.4	47	14.7	255.5	16.9	<10	0.17	0.010
STD OREAS72B	Standard																				
STD OREAS72B	Standard																				
STD OREAS72B	Standard																				
STD OREAS72B	Standard																				
STD OREAS72B	Standard																				
STD OREAS927-AR	Standard		1.2	10410.5	210.5	720	4.2	28.9	29.2	1062	8.13	12	1.5	11.9	12	1.2	1.1	59.8	33	0.30	0.050
STD OREAS927-AR	Standard		1.1	10370.9	205.0	742	4.0	31.6	28.4	985	8.09	12	1.6	12.1	11	1.0	1.0	56.7	35	0.31	0.053
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
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	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 GS910-4	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD OREAS133B(D)	Standard	34.84 6.98 11.54 5.34 3.81																			
STD OREAS133B(D)	Standard	35.10 6.97 11.66 5.34 3.83																			
STD OREAS133B(D)	Standard	34.69 6.92 11.47 5.26 3.80																			
STD OREAS133B(D)	Standard	34.90 6.97 11.55 5.32 3.85																			
STD OREAS133B(D)	Standard	34.91 6.98 11.62 5.30 3.82																			
STD OREAS135	Standard	38.2	23.7	0.84	390	0.027	1.08	0.02	0.50	3.3	1.01	3.7	5.8	6.89	<5	<2					
STD OREAS135	Standard	39.2	25.9	0.83	407	0.028	1.10	0.02	0.51	3.2	1.04	3.7	5.6	7.08	<5	<2					
STD OREAS605	Standard	6.7	28.9	0.02	153	0.009	0.69	0.03	0.12	6.9	2.14	0.8	16.7	7.57	7	76					
STD OREAS605	Standard	7.1	30.7	0.03	140	0.010	0.74	0.03	0.15	7.0	1.65	1.3	14.9	7.73	7	71					
STD OREAS605	Standard	6.6	27.6	0.03	160	0.011	0.77	0.03	0.12	6.8	1.95	1.2	15.4	7.72	7	73					
STD OREAS605	Standard	7.7	26.6	0.03	186	0.010	0.80	0.03	0.13	6.6	2.14	1.1	15.8	7.54	6	78					
STD OREAS72B	Standard	51.14 8.93 9.84 3.96 15.98																			
STD OREAS72B	Standard	51.11 8.90 9.78 3.95 15.95																			
STD OREAS72B	Standard	51.17 8.94 9.92 3.96 16.03																			
STD OREAS72B	Standard	51.17 8.95 9.84 3.97 15.99																			
STD OREAS72B	Standard	51.18 8.94 9.93 3.97 15.95																			
STD OREAS927-AR	Standard	24.1	40.2	1.93	45	0.088	3.25	<0.01	0.25	4.8	0.24	4.9	<0.5	1.72	9	16					
STD OREAS927-AR	Standard	24.8	41.8	1.90	48	0.099	3.24	<0.01	0.29	4.8	<0.05	4.6	<0.5	1.72	9	14					
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				



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		LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008	GC204	
		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	Ga
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm
		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	1
STD GS910-4	Standard													2.84	8.21						
STD GS910-4	Standard													2.87	8.35						
STD GS910-4	Standard													2.65	8.28						
STD OREAS133B(D)	Standard	3.49	0.16	0.20	0.12	<0.01	0.05	0.06	5.07	11.37	13.03	99.44	<0.01								
STD OREAS133B(D)	Standard	3.50	0.16	0.19	0.12	<0.01	0.08	0.06	5.06	11.38	13.03	99.89	0.01								
STD OREAS133B(D)	Standard	3.44	0.16	0.20	0.12	<0.01	0.07	0.06	5.07	11.36	13.03	98.90	<0.01								
STD OREAS133B(D)	Standard	3.45	0.16	0.19	0.13	<0.01	0.07	0.06	5.07	11.36	13.03	99.52	<0.01								
STD OREAS133B(D)	Standard	3.48	0.17	0.20	0.12	<0.01	0.07	0.06	5.07	11.42	13.03	99.70	<0.01								
STD OREAS135	Standard																				
STD OREAS135	Standard																				
STD OREAS605	Standard																				
STD OREAS605	Standard																				
STD OREAS605	Standard																				
STD OREAS605	Standard																				
STD OREAS72B	Standard	1.33	0.13	0.33	0.06	0.15	0.03	0.02	<0.01	<0.01	5.12	98.33	0.01								
STD OREAS72B	Standard	1.32	0.14	0.36	0.05	0.15	0.03	0.02	<0.01	<0.01	5.12	98.20	0.01								
STD OREAS72B	Standard	1.33	0.14	0.32	0.06	0.14	0.03	0.02	<0.01	<0.01	5.12	98.47	0.01								
STD OREAS72B	Standard	1.31	0.14	0.36	0.06	0.16	0.02	0.02	<0.01	0.01	5.12	98.42	0.01								
STD OREAS72B	Standard	1.32	0.14	0.33	0.06	0.15	0.04	0.02	<0.01	<0.01	5.12	98.46	0.01								
STD OREAS927-AR	Standard																				
STD OREAS927-AR	Standard																				
STD RTS-3A	Standard																			3.42	
STD RTS-3A	Standard																			3.22	
STD RTS-3A	Standard																			3.48	
STD RTS-3A	Standard																			3.47	
STD RTS-3A	Standard																			3.19	
STD RTS-3A	Standard																			3.35	
STD RTS-3A	Standard																			3.24	
STD RTS-3A	Standard																			3.43	



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		GC204 Ge ppm 1
STD GS910-4	Standard	
STD GS910-4	Standard	
STD GS910-4	Standard	
STD OREAS133B(D)	Standard	
STD OREAS133B(D)	Standard	
STD OREAS133B(D)	Standard	
STD OREAS133B(D)	Standard	
STD OREAS133B(D)	Standard	
STD OREAS135	Standard	
STD OREAS135	Standard	
STD OREAS605	Standard	
STD OREAS605	Standard	
STD OREAS605	Standard	
STD OREAS605	Standard	
STD OREAS72B	Standard	
STD OREAS72B	Standard	
STD OREAS72B	Standard	
STD OREAS72B	Standard	
STD OREAS72B	Standard	
STD OREAS927-AR	Standard	
STD OREAS927-AR	Standard	
STD RTS-3A	Standard	
STD RTS-3A	Standard	
STD RTS-3A	Standard	
STD RTS-3A	Standard	
STD RTS-3A	Standard	
STD RTS-3A	Standard	
STD RTS-3A	Standard	
STD RTS-3A	Standard	



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		WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01
STD SY-4(D)	Standard																			
STD SY-4(D)	Standard																			
STD SY-4(D)	Standard																			
STD SY-4(D)	Standard																			
STD SY-4(D)	Standard																			
STD RTS-3A Expected																				
STD SY-4(D) Expected																				
STD OREAS72B Expected																				
STD OREAS133B(D) Expected																				
STD GGC-10 Expected																				
STD OREAS135 Expected			8.25	294	17000	28000	55.2	36	29.6	3960	8.97	937	9.4	10.4	26.5	67	38	5.1	33.4	1.83
STD COO1 Expected																				0.086
STD COO2 Expected																				
STD OREAS605 Expected			4.75	49800	856	2170	984	1568	96	86	3.75	1674	0.92		49	13.6	307	19	7.8	0.182
STD OREAS927-AR Expected			1.06	10715	203	726	4.9	30.9	29.4	1110	8.15	13.5	1.7	12.5	13.1	1.1	1.3	66	34	0.3
STD GS311-1 Expected																				0.054
STD GS910-4 Expected																				
STD GBM309-15 Expected																				
STD GG-3 Expected																				
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
SI BLK	Blank																			
SI BLK	Blank																			
BLK	Blank																			



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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 SY-4(D)	Standard																49.93	20.73	6.22	8.03	0.54
STD SY-4(D)	Standard																49.91	20.65	6.20	8.02	0.54
STD SY-4(D)	Standard																49.88	20.67	6.22	7.98	0.53
STD SY-4(D)	Standard																49.97	20.72	6.22	8.01	0.53
STD SY-4(D)	Standard																49.90	20.73	6.21	7.97	0.53
STD RTS-3A Expected																					
STD SY-4(D) Expected																	49.9	20.69	6.21	8.05	0.54
STD OREAS72B Expected																	51.17	8.97	9.724	3.96	15.933
STD OREAS133B(D) Expected																	33.83	6.91	11.67	5.4	3.73
STD GGC-10 Expected																					
STD OREAS135 Expected		39.8	22	0.833	366	0.026	1.09	0.017	0.487	2.93	1.21	3.51	6.27	7.08	4.8						
STD COO1 Expected																					
STD COO2 Expected																					
STD OREAS605 Expected		7.5	27.5	0.0289	160	0.01	0.73	0.0328	0.134	7.1	1.7	1.05	15.9	7.86	6.7	79					
STD OREAS927-AR Expected		26.9	41.7	1.94	51.4	0.085	3.25	0.011	0.27	4.9	0.12	4.74		1.77	9.09	15.5					
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD GBM309-15 Expected																					
STD GG-3 Expected																					
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
SI BLK	Blank																99.44	0.33	0.03	0.02	0.03
SI BLK	Blank																98.92	0.33	0.03	0.02	0.02
BLK	Blank																				



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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 %	GC204 Ga ppm
		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	1
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	99.40	<0.01								
STD SY-4(D)	Standard	1.67	0.12	0.29	0.13	<0.01	0.04	<0.01	<0.01	0.01	4.56	99.27	<0.01								
STD SY-4(D)	Standard	1.67	0.12	0.29	0.13	<0.01	0.04	<0.01	<0.01	0.01	4.56	99.48	<0.01								
STD SY-4(D)	Standard	1.68	0.12	0.29	0.13	<0.01	0.04	<0.01	<0.01	0.01	4.56	99.38	<0.01								
STD SY-4(D)	Standard	1.67	0.12	0.30	0.13	<0.01	0.03	<0.01	<0.01	0.01	4.56	99.26	<0.01								
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 GGC-10 Expected																	4.79				
STD OREAS135 Expected																					
STD COO1 Expected																			2.37		
STD COO2 Expected																			3.43		
STD OREAS605 Expected																					
STD OREAS927-AR Expected																					
STD GS311-1 Expected														1.02	2.35						
STD GS910-4 Expected														2.65	8.27						
STD GBM309-15 Expected														0.22	28.84						
STD GG-3 Expected																					370
BLK	Blank																			<0.05	
BLK	Blank																			<0.05	
BLK	Blank																<0.02				
BLK	Blank																	<0.08			
BLK	Blank																			<0.05	
BLK	Blank																			<0.05	
BLK	Blank																<0.02				
SI BLK	Blank	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	99.84	<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	99.32	<0.01								
BLK	Blank																			<0.08	





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		GC204 Ge ppm 1
STD SY-4(D)	Standard	
STD SY-4(D)	Standard	
STD SY-4(D)	Standard	
STD SY-4(D)	Standard	
STD SY-4(D)	Standard	
STD RTS-3A Expected		
STD SY-4(D) Expected		
STD OREAS72B Expected		
STD OREAS133B(D) Expected		
STD GGC-10 Expected		
STD OREAS135 Expected		
STD COO1 Expected		
STD COO2 Expected		
STD OREAS605 Expected		
STD OREAS927-AR Expected		
STD GS311-1 Expected		
STD GS910-4 Expected		
STD GBM309-15 Expected		
STD GG-3 Expected		600
BLK	Blank	
BLK	Blank	
BLK	Blank	
BLK	Blank	
BLK	Blank	
BLK	Blank	
BLK	Blank	
SI BLK	Blank	
SI BLK	Blank	
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	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
SI BLK	Blank																				
SI BLK	Blank																				
SI BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank		<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<10	<0.01	<0.001
BLK	Blank																				
BLK	Blank		<0.5	<0.5	2.1	<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	0.002
BLK	Blank																				
BLK	Blank		<0.5	0.5	0.6	<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	0.9	<5	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<10	<0.01	0.001
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank		1.1	5.1	1.4	39	<0.5	2.2	4.8	589	1.92	<5	<0.5	2.1	24	<0.5	<0.5	<0.5	28	0.67	0.045
ROCK-WHI	Prep Blank		1.0	4.8	2.3	72	<0.5	3.0	4.6	572	1.99	<5	<0.5	2.2	23	<0.5	<0.5	<0.5	26	0.69	0.050



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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
SI BLK	Blank																99.72	0.31	0.03	0.01	0.02
SI BLK	Blank																98.90	0.33	0.03	0.02	0.02
SI BLK	Blank																98.81	0.33	0.03	0.02	0.01
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<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					
BLK	Blank																				
BLK	Blank	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	0.20	<0.5	<0.5	<0.05	<5	<2					
BLK	Blank	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.05	<5	<2					
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank	6.7	4.1	0.52	60	0.097	0.91	0.08	0.10	<0.5	<0.05	3.8	<0.5	<0.05	<5	<2	70.88	14.17	3.27	2.42	1.05
ROCK-WHI	Prep Blank	6.6	4.8	0.51	59	0.097	0.91	0.08	0.11	<0.5	<0.05	3.7	<0.5	<0.05	<5	<2	70.92	14.18	3.31	2.30	1.02



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**Client:**

**Fireweed Zinc Ltd.**

Suite 1020, 800 Pender Street

Vancouver British Columbia V5C 2V6 Canada

**Project:**

MacMillan Pass

**Report Date:**

November 13, 2019

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## QUALITY CONTROL REPORT

WHI19000551.2

		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 %	GC204 Ga ppm
		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	1
SI BLK	Blank	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	100.11	<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	99.26	<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	99.19	<0.01								
BLK	Blank													<0.02	<0.02						
BLK	Blank																<0.02				
BLK	Blank																<0.02				
BLK	Blank													<0.02	<0.02						
BLK	Blank																	<0.08			
BLK	Blank																				
BLK	Blank																	<0.08			
BLK	Blank																				
BLK	Blank																				
BLK	Blank													<0.02	<0.02						
BLK	Blank													<0.02	<0.02						
BLK	Blank																				<1
Prep Wash																					
ROCK-WHI	Prep Blank	1.86	0.10	0.34	0.09	<0.01	0.07	<0.01	<0.01	<0.01	1.02	99.86	<0.01	0.11	<0.02	0.02	<0.02	0.34	<0.05	0.15	
ROCK-WHI	Prep Blank	1.86	0.10	0.33	0.09	<0.01	0.07	<0.01	<0.01	<0.01	1.12	99.99	<0.01	0.11	<0.02	0.07	<0.02	0.12	<0.05	0.15	



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**Project:** MacMillan Pass  
**Report Date:** November 13, 2019

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## QUALITY CONTROL REPORT

WHI19000551.2

		GC204 Ge ppm 1
SI BLK	Blank	
SI BLK	Blank	
SI BLK	Blank	
BLK	Blank	
BLK	Blank	
BLK	Blank	
BLK	Blank	
BLK	Blank	
BLK	Blank	
BLK	Blank	
BLK	Blank	
BLK	Blank	
BLK	Blank	
BLK	Blank	
BLK	Blank	
BLK	Blank	<1
Prep Wash		
ROCK-WHI	Prep Blank	
ROCK-WHI	Prep Blank	