



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: October 09, 2020
Analysis Start: January 08, 2021
Report Date: January 22, 2021
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CERTIFICATE OF ANALYSIS

WHI20000542.1

CLIENT JOB INFORMATION

Project: MacMillan Pass
Shipment ID: FWZ20-BV-015
P.O. Number
Number of Samples: 64

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.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	62	Crush, split and pulverize 500g rock to 200 mesh			WHI
SLBHP	2	Sort, label and box pulps			WHI
CRUBW	62	Extra clean rock wash between samples in crusher			WHI
PULSW	62	Extra Wash with Silica between each sample			VAN
AQ270	64	1:1:1 Aqua Regia digestion ICP-ES/ICP-MS analysis	1	Completed	VAN
LF725	64	Li2B4O7/LiBO2 fusion, analysis by XRF		Completed	VAN
TC000	64	Total C/S Analysis by Leco	0.1	Completed	VAN
TC007	64	Graphite and Organic C by Leco After Ignition	0.1	Completed	VAN
TC006	64	Inorganic Carbon	0.2	Completed	VAN
TC010	64	Analysis by Leco after sodium carbonate leach	0.1	Completed	VAN
SHP01	64	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS

V205 from LF725 is Qualitative Data only.

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

CC:



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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Canada

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CERTIFICATE OF ANALYSIS

WHI20000542.1

	Method	Analyte	Unit	MDL	WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270			
					Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
					kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
3202829	Drill Core	4.54	4.2	60.0	332.5	4215	3.0	141.4	10.6	40	7.80	190	6.8	0.6	871	43.7	88.6	<0.5	82	0.30	0.216			
3202830	Drill Core	5.84	4.4	48.5	752.3	653	4.7	94.7	8.6	44	11.82	191	1.9	<0.5	826	3.2	81.2	<0.5	59	0.29	0.190			
3202831	Drill Core	5.85	8.1	41.5	5377.6	1734	11.6	80.7	9.0	49	5.60	123	4.0	0.6	847	9.0	55.5	<0.5	82	0.25	0.192			
3202832	Drill Core	4.75	7.1	41.6	229.9	1132	2.1	100.6	8.4	39	5.69	154	3.1	0.6	848	4.3	54.5	<0.5	62	0.16	0.144			
3202833	Drill Core	5.99	3.4	47.2	168.9	197	1.6	113.4	7.9	39	4.42	151	5.5	0.8	1694	0.9	50.6	<0.5	70	0.25	0.251			
3202834	Drill Core	7.13	3.4	30.6	93.9	242	0.9	71.3	5.8	35	2.37	82	12.8	0.7	1091	1.0	34.1	<0.5	85	0.35	0.274			
3202835	Drill Core	6.14	7.4	38.1	189.5	1087	2.0	93.6	6.7	44	5.08	152	3.2	0.8	1247	4.8	62.0	<0.5	91	0.30	0.224			
3202836	Drill Core	8.13	5.6	31.3	130.2	3334	1.3	74.1	6.4	35	3.31	131	2.8	0.7	923	14.5	41.5	<0.5	59	0.23	0.165			
3202837	Drill Core	6.63	3.6	44.1	188.0	15167	3.0	87.7	6.3	38	4.71	143	3.6	0.8	1120	92.7	60.1	<0.5	61	0.38	0.253			
3202838	Drill Core	5.14	4.9	49.3	364.8	8104	3.1	135.9	7.3	44	8.49	175	4.1	0.9	1787	43.2	76.8	<0.5	67	0.63	0.407			
3202839	Drill Core	5.75	5.9	53.1	163.9	411	1.9	106.7	8.5	35	3.59	117	4.9	0.8	1558	1.9	50.7	<0.5	72	0.22	0.226			
3202840	Rock	0.60	<0.5	<0.5	1.0	<5	<0.5	<0.5	<0.5	120	0.08	<5	<0.5	<0.5	74	<0.5	<0.5	<0.5	<10	32.31	0.008			
3202841	Drill Core	4.16	3.0	31.5	175.9	163	1.2	84.5	6.6	34	2.68	97	2.8	0.6	963	0.7	34.9	<0.5	51	0.20	0.166			
3202842	Drill Core	4.78	3.2	33.8	200.8	166	1.2	94.6	7.0	37	3.41	110	3.0	0.6	975	0.6	40.6	<0.5	51	0.29	0.199			
3202843	Drill Core	6.41	3.2	33.5	98.1	56	0.8	79.4	6.6	33	2.16	84	3.7	0.8	1090	<0.5	27.5	<0.5	55	0.30	0.205			
3202844	Drill Core	7.23	3.6	38.6	184.6	47	1.4	102.5	6.6	41	4.93	180	3.5	0.8	1206	<0.5	60.9	<0.5	58	0.39	0.251			
3202845	Drill Core	8.09	6.4	48.0	187.2	1342	1.8	106.1	8.3	64	5.08	161	8.4	1.9	2036	4.9	55.3	<0.5	75	1.37	0.721			
3202846	Drill Core	5.93	15.7	53.1	242.2	493	2.0	121.9	10.9	54	6.02	180	6.6	2.0	1533	1.5	72.1	<0.5	77	1.41	0.697			
3202847	Drill Core	6.66	19.1	84.1	172.8	10812	2.5	117.2	10.2	111	3.82	142	8.7	2.6	2096	35.0	62.9	<0.5	86	2.11	1.071			
3202848	Drill Core	5.31	6.9	126.2	273.9	1816	2.7	158.6	8.1	60	3.46	217	14.4	2.0	3612	6.7	95.6	<0.5	104	3.58	1.735			
3202849	Drill Core	5.60	4.4	72.5	148.2	714	1.4	118.2	6.4	50	2.91	151	13.2	1.4	2626	2.8	46.9	<0.5	82	2.82	1.392			
3202850	Drill Core	5.98	10.9	90.3	202.4	972	2.0	134.3	10.7	67	5.45	202	12.2	1.4	2443	3.7	65.5	<0.5	79	2.81	1.394			
3202851	Drill Core	7.50	3.1	79.2	176.2	1660	1.7	85.4	7.0	57	3.39	119	13.6	1.3	1901	7.5	46.0	<0.5	86	2.76	1.383			
3202852	Drill Core	5.38	1.6	60.7	349.3	609	2.1	109.5	10.8	42	9.27	248	7.0	0.5	814	2.8	67.8	<0.5	52	1.13	0.557			
3202853	Drill Core	5.41	2.1	60.3	102.5	234	1.4	143.0	11.2	749	8.34	179	5.8	<0.5	782	1.2	46.1	<0.5	56	1.23	0.630			
3202854	Drill Core	4.76	1.4	51.9	150.9	2350	2.2	104.1	10.4	2169	14.79	191	6.2	<0.5	217	14.0	52.0	<0.5	66	0.43	0.196			
3202855	Drill Core	4.48	8.6	109.5	359.7	12111	7.0	123.8	17.3	1735	23.46	285	16.8	<0.5	261	77.1	135.3	<0.5	97	0.39	0.226			
3202856	Drill Core	4.05	19.4	38.9	94.2	119	1.7	92.1	15.1	3522	13.58	166	6.2	0.5	353	<0.5	53.7	<0.5	74	0.53	0.217			
3202857	Drill Core	4.05	21.3	31.6	54.1	70	1.0	63.4	11.1	3851	11.98	84	5.2	<0.5	248	<0.5	31.0	<0.5	83	0.42	0.163			
3202858	Drill Core	4.16	8.5	53.6	161.4	1295	2.4	64.1	9.2	5920	21.51	126	9.2	<0.5	120	8.3	39.0	<0.5	104	0.30	0.112			



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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
3202829	Drill Core	2.2	24.2	<0.01	607	0.002	0.57	<0.01	0.13	<0.5	4.27	2.4	1.0	9.21	<5	7	61.40	7.48	11.33	0.41	0.13
3202830	Drill Core	1.5	19.3	0.01	210	0.003	0.41	<0.01	0.12	<0.5	1.25	1.3	1.5	13.86	<5	5	59.09	4.98	17.44	0.39	0.09
3202831	Drill Core	1.6	17.2	0.01	1161	0.003	0.49	<0.01	0.14	<0.5	2.14	1.4	1.6	6.53	<5	13	68.85	6.18	7.95	0.32	0.13
3202832	Drill Core	1.6	16.0	0.01	907	0.002	0.48	<0.01	0.13	<0.5	1.45	1.2	1.5	6.48	<5	7	67.11	7.15	8.16	0.24	0.15
3202833	Drill Core	2.9	20.3	0.02	1162	0.004	0.67	<0.01	0.16	<0.5	0.97	1.6	1.2	5.00	<5	8	64.16	9.15	6.45	0.39	0.15
3202834	Drill Core	2.7	26.2	<0.01	1337	0.002	0.66	<0.01	0.13	<0.5	0.72	1.9	0.8	2.61	<5	7	73.46	7.50	3.72	0.52	0.13
3202835	Drill Core	2.3	17.2	0.02	1016	0.004	0.56	<0.01	0.15	<0.5	1.80	1.4	2.1	5.79	<5	9	69.67	6.63	7.39	0.44	0.13
3202836	Drill Core	2.1	15.0	0.01	1052	0.003	0.49	<0.01	0.14	<0.5	3.54	1.0	1.3	3.80	<5	6	73.30	6.68	4.83	0.35	0.14
3202837	Drill Core	2.8	18.3	0.01	959	0.003	0.52	<0.01	0.15	<0.5	13.17	1.2	1.8	5.99	<5	9	71.15	5.77	6.74	0.52	0.11
3202838	Drill Core	4.0	21.9	0.01	542	0.004	0.63	<0.01	0.17	<0.5	8.07	1.2	4.1	10.10	<5	14	57.56	7.82	12.22	0.86	0.14
3202839	Drill Core	3.5	19.9	0.02	959	0.003	0.69	<0.01	0.17	<0.5	1.31	1.7	1.0	4.05	<5	12	64.27	9.84	5.27	0.37	0.17
3202840	Rock	1.3	<0.5	1.09	16	0.002	0.02	<0.01	<0.01	<0.5	0.08	<0.5	<0.5	<0.05	<5	<2	11.24	0.14	0.14	47.01	3.45
3202841	Drill Core	2.3	14.5	0.01	983	0.002	0.48	<0.01	0.13	<0.5	0.72	1.0	0.8	2.92	<5	10	75.56	6.31	3.92	0.34	0.13
3202842	Drill Core	2.1	16.0	0.01	1030	0.002	0.47	<0.01	0.13	<0.5	0.94	1.3	1.0	3.78	<5	12	74.72	6.18	5.03	0.41	0.13
3202843	Drill Core	2.8	15.9	0.01	1080	0.002	0.55	<0.01	0.16	<0.5	0.51	1.3	0.8	2.32	<5	7	73.00	7.97	3.25	0.44	0.15
3202844	Drill Core	2.6	15.9	0.01	974	0.003	0.54	<0.01	0.16	<0.5	0.97	1.1	1.2	5.55	<5	10	70.44	6.76	7.22	0.56	0.14
3202845	Drill Core	6.4	21.2	0.02	936	0.003	0.69	<0.01	0.20	<0.5	1.85	1.4	1.4	5.76	<5	8	68.49	6.94	7.27	1.82	0.14
3202846	Drill Core	5.9	16.2	0.03	926	0.003	0.69	<0.01	0.21	<0.5	1.17	1.7	1.8	6.74	<5	5	63.94	8.51	8.76	1.91	0.19
3202847	Drill Core	7.4	19.1	0.05	1449	0.004	0.82	0.01	0.26	<0.5	8.53	1.9	1.5	4.50	<5	7	62.81	9.62	5.47	2.78	0.25
3202848	Drill Core	8.3	31.9	0.03	1760	0.006	1.13	0.02	0.34	<0.5	2.18	2.9	1.6	3.90	<5	14	61.19	9.82	5.04	4.62	0.21
3202849	Drill Core	5.8	27.6	0.02	1616	0.005	0.89	0.02	0.27	<0.5	1.14	2.7	1.0	3.19	<5	10	67.54	7.74	4.23	3.65	0.17
3202850	Drill Core	5.1	26.3	0.02	821	0.005	0.88	0.02	0.26	<0.5	1.78	2.4	1.3	6.03	<5	9	64.05	7.47	7.74	3.60	0.14
3202851	Drill Core	4.5	31.2	0.01	1363	0.004	0.80	0.01	0.21	<0.5	2.04	2.8	1.2	3.59	<5	6	70.08	7.09	4.88	3.57	0.11
3202852	Drill Core	1.7	20.2	<0.01	345	0.002	0.41	<0.01	0.08	<0.5	0.98	1.4	2.8	10.45	<5	3	67.77	3.70	13.34	1.50	0.05
3202853	Drill Core	0.9	17.1	0.10	585	0.002	0.40	<0.01	0.10	<0.5	0.81	1.9	1.1	7.43	<5	3	68.76	3.57	11.96	1.64	0.22
3202854	Drill Core	<0.5	15.5	0.29	159	<0.001	0.33	<0.01	0.04	<0.5	2.56	3.0	1.6	11.62	<5	3	59.05	1.98	21.72	0.57	0.54
3202855	Drill Core	0.6	23.9	0.19	100	0.001	0.79	<0.01	0.06	<0.5	11.23	3.9	3.4	23.12	<5	2	34.84	3.36	34.29	0.50	0.35
3202856	Drill Core	1.3	13.3	0.36	508	0.001	0.37	<0.01	0.10	<0.5	0.61	3.9	1.1	5.92	<5	2	54.42	4.37	19.99	0.69	0.73
3202857	Drill Core	0.8	13.2	0.39	391	0.001	0.34	<0.01	0.07	<0.5	0.35	4.1	0.7	3.09	<5	<2	63.41	3.08	17.39	0.57	0.73
3202858	Drill Core	<0.5	12.7	0.68	214	0.001	0.45	<0.01	0.03	<0.5	1.39	3.6	0.9	8.36	<5	2	44.39	1.82	31.54	0.39	1.12



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Method Analyte Unit MDL		LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC010	TC010
		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
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.02
3202829	Drill Core	0.97	<0.01	0.35	1.66	0.02	0.84	<0.01	0.04	0.41	13.26	98.54	0.08	5.45	9.22	5.35	0.09	<0.08	7.33	5.67
3202830	Drill Core	0.67	<0.01	0.24	1.34	<0.01	0.60	<0.01	0.07	0.07	12.91	98.02	0.05	3.90	13.41	3.81	0.09	<0.08	11.09	6.95
3202831	Drill Core	0.86	<0.01	0.30	1.38	0.01	0.74	<0.01	0.51	0.17	10.01	97.66	0.09	4.82	6.49	4.52	0.29	<0.08	4.96	4.59
3202832	Drill Core	0.92	<0.01	0.36	1.87	0.01	0.78	<0.01	0.03	0.11	10.57	97.63	0.07	4.91	6.39	4.77	0.14	<0.08	5.12	3.81
3202833	Drill Core	1.04	<0.01	0.43	3.35	0.02	0.96	<0.01	0.02	0.02	10.59	96.93	0.07	5.01	5.03	4.82	0.17	<0.08	3.93	3.32
3202834	Drill Core	0.90	<0.01	0.34	1.96	0.02	0.76	<0.01	0.02	0.03	7.94	97.44	0.06	4.41	2.92	4.26	0.14	<0.08	2.21	2.14
3202835	Drill Core	0.84	<0.01	0.36	2.08	0.01	0.67	<0.01	0.03	0.11	9.33	97.83	0.08	4.23	5.74	4.17	0.06	<0.08	4.45	3.85
3202836	Drill Core	0.90	<0.01	0.37	1.73	0.01	0.70	<0.01	0.02	0.33	7.81	97.37	0.06	3.98	3.90	3.85	0.12	<0.08	2.98	2.74
3202837	Drill Core	0.80	0.01	0.30	1.60	0.01	0.60	<0.01	0.03	1.50	8.91	98.51	0.06	4.25	6.03	4.16	0.08	<0.08	4.64	4.17
3202838	Drill Core	1.01	<0.01	0.41	2.62	0.02	0.79	<0.01	0.04	0.80	12.60	97.28	0.06	4.52	10.02	4.42	0.09	<0.08	8.26	5.28
3202839	Drill Core	1.19	<0.01	0.50	3.32	0.02	0.99	<0.01	0.03	0.05	10.12	96.32	0.07	4.96	4.07	4.80	0.15	<0.08	3.25	2.44
3202840	Rock	<0.01	0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	37.43	99.46	<0.01	10.67	<0.02	0.81	<0.02	36.16	<0.02	<0.15
3202841	Drill Core	0.86	<0.01	0.32	1.56	<0.01	0.64	<0.01	0.03	0.02	7.78	97.62	0.06	4.54	3.02	4.31	0.22	<0.08	2.14	2.62
3202842	Drill Core	0.86	<0.01	0.32	1.53	0.02	0.64	<0.01	0.03	0.02	8.06	98.06	0.05	4.34	3.76	3.99	0.35	<0.08	2.87	2.68
3202843	Drill Core	1.10	<0.01	0.40	1.85	0.02	0.79	<0.01	0.02	0.01	8.57	97.73	0.06	5.22	2.37	4.67	0.55	<0.08	1.77	1.80
3202844	Drill Core	0.95	<0.01	0.32	1.61	0.01	0.64	<0.01	0.02	<0.01	9.41	98.21	0.06	4.52	5.67	4.32	0.20	<0.08	4.45	3.67
3202845	Drill Core	1.16	0.01	0.36	1.67	<0.01	0.62	<0.01	0.02	0.13	9.11	97.89	0.07	4.47	5.78	4.36	0.10	<0.08	4.36	4.25
3202846	Drill Core	1.45	<0.01	0.45	1.55	0.01	0.73	<0.01	0.03	0.05	10.85	98.63	0.08	5.22	6.93	5.09	0.13	<0.08	5.33	4.79
3202847	Drill Core	1.66	0.02	0.50	2.25	0.02	0.84	<0.01	0.02	1.06	9.89	97.64	0.09	5.43	4.42	5.27	0.11	0.17	3.42	3.02
3202848	Drill Core	1.71	0.01	0.49	3.72	0.02	0.85	<0.01	0.03	0.19	10.40	98.58	0.08	6.32	3.90	6.05	0.27	<0.08	2.88	3.05
3202849	Drill Core	1.34	0.01	0.37	2.91	0.01	0.70	<0.01	0.02	0.07	9.33	98.28	0.06	6.14	3.32	5.89	0.24	<0.08	2.22	3.30
3202850	Drill Core	1.20	<0.01	0.38	2.91	0.01	0.62	<0.01	0.03	0.10	9.71	98.16	0.05	4.69	6.31	4.58	0.10	<0.08	4.61	5.11
3202851	Drill Core	1.08	<0.01	0.32	2.86	0.02	0.58	<0.01	0.02	0.17	8.06	99.02	0.06	4.53	3.67	4.44	0.07	<0.08	2.62	3.15
3202852	Drill Core	0.46	<0.01	0.15	1.23	<0.01	0.25	<0.01	0.03	0.06	10.04	98.66	0.04	2.72	10.53	2.65	0.06	<0.08	7.85	8.03
3202853	Drill Core	0.50	0.09	0.13	1.34	<0.01	0.29	<0.01	0.02	0.02	9.96	98.55	0.04	3.69	7.61	3.35	0.04	1.13	5.64	5.90
3202854	Drill Core	0.20	0.26	0.07	0.45	<0.01	0.23	<0.01	0.02	0.23	13.88	99.30	0.03	3.45	11.60	2.46	0.02	3.53	9.02	7.74
3202855	Drill Core	0.32	0.20	0.10	0.49	<0.01	0.18	<0.01	0.04	1.16	22.47	98.67	0.04	4.30	23.19	3.52	0.02	2.80	16.95	18.70
3202856	Drill Core	0.68	0.42	0.22	0.50	0.01	0.35	<0.01	0.02	0.01	17.17	99.67	0.05	8.37	5.90	6.70	0.19	5.42	4.59	3.93
3202857	Drill Core	0.43	0.46	0.13	0.39	<0.01	0.24	<0.01	0.01	0.01	12.84	99.75	0.04	5.46	3.13	3.57	0.17	6.31	2.14	2.96
3202858	Drill Core	0.16	0.71	0.05	0.24	0.06	0.09	<0.01	0.02	0.12	18.44	99.21	0.05	5.34	8.16	2.42	0.04	10.54	5.38	8.32



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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
3202859	Drill Core	2.83	29.5	28.5	83.8	30	1.1	80.7	8.7	439	2.51	111	8.2	<0.5	234	<0.5	23.3	<0.5	235	0.27	0.130
3202860	Rock Pulp	0.07	2.5	216.8	17584.8	29467	35.9	24.6	19.9	1803	5.42	93	1.5	6.7	24	102.5	54.5	<0.5	11	5.39	0.061
3202861	Drill Core	2.29	16.8	53.7	201.2	484	1.6	77.4	7.2	2583	7.55	104	9.3	<0.5	155	2.9	22.8	<0.5	246	0.30	0.122
3202862	Drill Core	1.71	17.2	38.1	108.0	410	1.2	90.7	8.0	2442	7.55	103	12.8	<0.5	137	2.1	21.8	<0.5	228	0.28	0.112
3202863	Drill Core	2.87	8.9	24.2	57.0	4253	1.3	58.7	6.5	1582	6.43	87	8.7	<0.5	302	31.5	20.6	<0.5	161	0.38	0.170
3202864	Drill Core	3.83	17.6	17.8	101.0	2179	1.2	82.0	9.5	3817	13.00	162	8.8	<0.5	328	15.1	27.4	<0.5	257	0.40	0.141
3202865	Drill Core	5.57	11.1	68.2	329.9	18015	5.6	65.6	8.0	3467	22.02	189	6.0	<0.5	177	142.1	66.1	<0.5	180	0.29	0.091
3202866	Drill Core	4.69	24.1	63.0	355.6	3943	4.4	89.7	8.8	2161	21.17	219	5.3	<0.5	49	32.7	83.7	<0.5	187	0.12	0.031
3202867	Drill Core	3.63	32.0	29.3	86.5	52	1.3	97.0	7.9	2346	8.63	134	4.9	<0.5	72	<0.5	35.3	<0.5	280	0.16	0.041
3202868	Drill Core	3.84	17.6	33.0	166.2	504	2.0	129.6	10.2	2555	13.25	186	8.4	<0.5	100	4.3	53.3	<0.5	239	0.22	0.069
3202869	Drill Core	3.50	33.1	52.5	192.3	140	2.8	115.9	13.0	686	9.48	226	8.2	<0.5	67	1.1	58.1	<0.5	280	0.13	0.057
3202870	Drill Core	3.52	22.0	39.4	156.5	464	2.4	91.7	10.3	1830	11.19	179	10.2	<0.5	193	4.5	44.5	<0.5	221	0.39	0.155
3202871	Drill Core	3.79	4.4	67.0	339.9	2677	3.8	86.2	6.5	1442	18.64	277	5.3	<0.5	271	23.6	63.1	<0.5	89	0.44	0.194
3202872	Drill Core	5.34	7.0	32.5	141.7	387	1.5	72.6	6.4	1936	9.12	119	2.5	<0.5	140	2.3	31.3	<0.5	87	0.33	0.127
3202873	Drill Core	5.97	3.8	41.3	148.4	840	2.3	90.9	12.5	2608	15.88	205	3.8	<0.5	448	4.7	46.0	<0.5	65	0.85	0.349
3202874	Drill Core	4.13	0.9	117.2	1164.0	53549	9.1	127.6	23.0	620	21.71	560	0.8	<0.5	14	265.2	108.7	<0.5	15	0.06	0.022
3202875	Drill Core	5.31	3.6	175.4	981.4	72455	11.6	168.1	28.9	2785	28.39	649	1.5	<0.5	32	316.1	140.3	<0.5	43	0.12	0.028
3202876	Drill Core	5.46	0.7	280.0	1783.9	103954	21.3	65.8	9.0	252	32.31	328	1.8	<0.5	30	561.4	140.5	<0.5	<10	0.08	0.030
3202877	Drill Core	4.59	2.2	495.9	5071.5	64390	20.9	135.2	32.7	2106	26.86	576	1.3	<0.5	24	300.7	163.9	<0.5	28	0.10	0.034
3202878	Drill Core	4.23	11.2	57.9	385.3	4624	3.0	145.9	21.5	1881	11.73	246	6.2	1.3	422	16.5	49.0	<0.5	169	0.78	0.352
3202879	Drill Core	9.84	12.3	21.9	109.6	2440	1.1	212.5	13.4	4118	21.37	138	5.9	1.3	110	4.9	29.0	<0.5	211	0.38	0.061
3202880	Rock Pulp	0.06	3.5	452.5	34165.4	48012	57.3	17.5	44.8	2209	7.24	159	1.6	6.5	26	178.7	49.6	<0.5	10	4.93	0.052
3202881	Drill Core	2.07	48.3	23.5	97.8	777	1.1	160.3	13.9	3620	15.05	209	7.2	1.2	280	<0.5	28.7	<0.5	73	6.97	0.068
3202882	Drill Core	1.92	37.7	21.7	76.9	984	1.0	150.7	12.4	3796	15.32	183	6.2	0.9	276	<0.5	25.6	<0.5	74	7.09	0.057
3202883	Drill Core	3.81	23.0	56.0	2352.7	7437	2.9	222.5	16.0	3757	15.30	49	8.0	1.0	38	35.9	19.9	<0.5	206	0.46	0.063
3202884	Drill Core	5.01	20.2	71.5	105.5	1800	0.6	149.9	13.5	1493	8.93	45	4.9	1.4	218	7.7	20.6	<0.5	157	5.50	0.093
3202885	Drill Core	3.61	5.6	51.2	36.0	271	0.5	89.7	9.6	1490	4.89	24	2.6	1.2	343	0.7	12.7	<0.5	98	6.29	0.235
3202886	Drill Core	2.55	4.1	80.0	183.5	1400	<0.5	230.8	77.9	385	6.89	48	9.5	0.7	171	5.2	18.2	<0.5	28	1.38	0.304
3202887	Drill Core	6.77	18.9	27.7	64.2	794	<0.5	89.8	13.7	1382	5.70	36	3.2	1.3	292	3.7	18.3	<0.5	176	8.08	0.032
3202888	Drill Core	5.59	21.8	22.7	64.5	44	<0.5	83.2	10.1	863	3.53	26	3.7	1.3	254	<0.5	16.3	<0.5	139	6.96	0.043



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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
3202859	Drill Core	<0.5	17.8	0.05	471	0.002	0.25	<0.01	0.06	<0.5	0.32	1.3	<0.5	1.21	<5	3	85.23	1.95	3.60	0.34	0.11
3202860	Rock Pulp	26.5	14.3	2.90	148	0.018	1.02	0.01	0.75	0.7	1.07	3.5	27.7	4.90	<5	<2	43.44	8.72	8.24	7.39	5.32
3202861	Drill Core	<0.5	32.4	0.26	439	0.001	0.39	<0.01	0.05	<0.5	0.67	2.8	0.5	1.20	<5	3	74.62	2.11	10.88	0.43	0.49
3202862	Drill Core	0.6	34.0	0.26	379	0.002	0.48	<0.01	0.05	<0.5	0.50	3.1	<0.5	1.20	<5	3	73.65	2.31	11.19	0.42	0.50
3202863	Drill Core	<0.5	22.3	0.22	348	0.001	0.25	<0.01	0.05	<0.5	3.30	3.6	<0.5	2.14	<5	2	77.96	1.57	9.39	0.55	0.43
3202864	Drill Core	<0.5	38.5	0.47	417	0.002	0.37	<0.01	0.06	<0.5	1.70	4.6	0.5	4.30	<5	<2	60.59	2.06	19.32	0.57	0.91
3202865	Drill Core	<0.5	32.4	0.40	221	0.001	0.18	<0.01	0.04	<0.5	13.33	2.9	2.9	17.12	<5	3	40.86	1.29	33.15	0.41	0.75
3202866	Drill Core	<0.5	16.0	0.26	273	<0.001	0.18	<0.01	0.04	<0.5	3.65	2.6	2.2	19.12	<5	2	47.24	0.98	31.13	0.18	0.48
3202867	Drill Core	<0.5	14.5	0.24	418	0.001	0.19	<0.01	0.05	<0.5	0.36	1.7	0.6	3.14	<5	<2	74.10	1.30	12.21	0.23	0.47
3202868	Drill Core	<0.5	18.5	0.28	342	<0.001	0.25	<0.01	0.04	<0.5	0.69	1.7	1.2	8.37	<5	<2	63.81	1.38	19.95	0.32	0.56
3202869	Drill Core	<0.5	16.9	0.08	524	0.001	0.24	<0.01	0.06	<0.5	0.84	0.9	1.8	8.97	<5	<2	71.45	1.49	13.72	0.21	0.17
3202870	Drill Core	<0.5	29.8	0.20	485	0.002	0.20	<0.01	0.06	<0.5	0.84	2.6	1.0	7.37	<5	2	67.42	1.68	16.45	0.57	0.39
3202871	Drill Core	<0.5	12.4	0.19	246	0.001	0.18	<0.01	0.04	<0.5	2.66	1.8	0.7	17.12	<5	<2	52.33	1.38	26.83	0.60	0.35
3202872	Drill Core	<0.5	11.3	0.23	346	<0.001	0.17	<0.01	0.06	<0.5	0.58	1.6	0.6	4.33	<5	<2	72.79	2.06	13.55	0.49	0.45
3202873	Drill Core	0.5	18.1	0.31	342	0.002	0.30	<0.01	0.09	<0.5	0.92	3.5	1.1	10.47	<5	<2	53.69	3.13	23.74	1.17	0.59
3202874	Drill Core	<0.5	9.2	0.10	104	<0.001	0.10	<0.01	0.02	<0.5	40.02	0.9	3.6	26.00	<5	<2	40.32	1.16	32.54	0.09	0.18
3202875	Drill Core	<0.5	11.1	0.38	144	<0.001	0.12	<0.01	0.03	<0.5	52.41	3.9	2.8	28.53	<5	3	20.88	1.80	41.84	0.17	0.70
3202876	Drill Core	<0.5	3.4	0.05	57	<0.001	0.03	<0.01	<0.01	<0.5	78.52	0.8	4.3	>30	6	2	10.87	0.41	47.38	0.13	0.09
3202877	Drill Core	<0.5	8.8	0.34	85	<0.001	0.07	<0.01	0.01	<0.5	47.95	3.2	4.4	28.98	<5	3	26.05	0.94	39.70	0.15	0.60
3202878	Drill Core	2.1	49.3	0.24	484	0.003	0.72	<0.01	0.11	<0.5	4.15	3.8	0.8	7.93	<5	5	55.27	7.63	17.22	1.09	0.49
3202879	Drill Core	1.7	25.6	0.25	238	0.002	0.85	<0.01	0.09	<0.5	1.94	8.2	<0.5	7.11	<5	<2	40.06	6.55	32.25	0.55	0.53
3202880	Rock Pulp	23.8	15.4	2.66	265	0.017	1.06	0.01	0.68	<0.5	0.90	3.1	42.6	7.93	<5	<2	38.43	7.70	10.91	6.95	4.91
3202881	Drill Core	1.9	12.4	2.35	218	0.002	0.36	<0.01	0.08	<0.5	0.68	6.5	0.7	7.22	<5	<2	31.84	6.16	22.32	9.59	3.99
3202882	Drill Core	1.6	11.5	2.35	178	0.001	0.33	<0.01	0.07	<0.5	0.46	7.0	0.7	7.28	<5	<2	30.66	5.64	23.03	9.91	4.03
3202883	Drill Core	1.1	19.8	0.79	679	0.002	0.59	<0.01	0.07	<0.5	5.86	7.4	1.3	3.06	<5	5	50.13	6.69	22.69	0.67	1.37
3202884	Drill Core	2.2	20.2	2.41	202	0.001	0.31	<0.01	0.09	<0.5	1.79	7.2	1.5	6.07	<5	5	44.16	8.08	13.44	7.78	4.12
3202885	Drill Core	1.3	34.4	2.41	190	0.002	0.30	<0.01	0.10	<0.5	0.49	10.9	<0.5	2.25	<5	4	52.57	7.43	7.33	8.82	4.20
3202886	Drill Core	<0.5	28.8	0.32	196	0.002	0.44	<0.01	0.07	<0.5	1.18	2.6	<0.5	6.76	<5	3	46.28	24.25	10.01	1.93	0.64
3202887	Drill Core	2.6	14.9	3.64	186	0.001	0.21	<0.01	0.09	<0.5	1.07	10.4	0.6	4.11	<5	<2	42.53	6.93	8.69	11.63	6.35
3202888	Drill Core	2.0	10.2	3.39	228	0.001	0.25	<0.01	0.11	<0.5	0.30	6.5	0.6	2.38	<5	3	50.23	7.08	5.46	10.04	5.88



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Method Analyte Unit MDL		LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC010	TC010
		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
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.02
3202859	Drill Core	0.28	0.06	0.11	0.29	<0.01	0.20	<0.01	0.01	<0.01	5.97	98.18	0.16	4.22	1.28	3.67	0.35	0.74	0.76	1.57
3202860	Rock Pulp	4.17	0.24	0.28	0.13	<0.01	0.07	0.02	1.83	3.10	11.40	95.43	<0.01	3.29	4.94	0.40	<0.02	10.59	0.89	12.14
3202861	Drill Core	0.27	0.31	0.19	0.27	<0.01	0.21	<0.01	0.02	0.05	9.75	99.66	0.14	5.15	1.33	3.57	0.36	4.46	0.72	1.83
3202862	Drill Core	0.26	0.31	0.15	0.27	<0.01	0.20	<0.01	0.01	0.04	10.27	99.66	0.13	5.36	1.38	3.51	0.51	4.93	0.68	2.09
3202863	Drill Core	0.22	0.21	0.10	0.40	<0.01	0.16	<0.01	<0.01	0.43	8.36	99.91	0.09	4.34	2.41	3.31	0.12	3.34	1.41	3.02
3202864	Drill Core	0.27	0.49	0.19	0.33	0.01	0.17	<0.01	0.02	0.22	14.41	99.65	0.13	6.16	4.68	4.14	0.08	7.12	2.53	6.45
3202865	Drill Core	0.18	0.43	0.18	0.22	<0.01	0.13	<0.01	0.03	1.75	20.05	99.91	0.09	4.74	17.65	2.94	0.04	6.42	13.28	13.09
3202866	Drill Core	0.13	0.27	0.07	0.07	<0.01	0.11	<0.01	0.03	0.38	18.52	99.73	0.09	3.77	19.47	2.79	0.06	3.38	13.58	17.65
3202867	Drill Core	0.20	0.30	0.10	0.10	<0.01	0.15	<0.01	<0.01	<0.01	10.14	99.31	0.15	5.36	3.31	3.83	0.31	4.47	2.21	3.29
3202868	Drill Core	0.17	0.35	0.08	0.17	<0.01	0.13	<0.01	0.02	0.05	13.46	100.47	0.12	4.81	8.97	3.40	0.10	4.80	5.66	9.91
3202869	Drill Core	0.22	0.09	0.09	0.14	<0.01	0.18	<0.01	0.02	0.01	11.13	98.99	0.15	4.46	9.52	4.03	0.10	1.20	6.84	8.02
3202870	Drill Core	0.26	0.24	0.20	0.39	0.01	0.19	<0.01	<0.01	0.05	12.21	100.12	0.14	4.92	7.82	3.89	0.09	3.44	4.82	9.00
3202871	Drill Core	0.20	0.18	0.06	0.43	<0.01	0.13	<0.01	0.03	0.26	15.80	98.69	0.05	2.85	17.28	2.16	0.02	2.42	12.92	13.06
3202872	Drill Core	0.32	0.25	0.12	0.32	<0.01	0.20	<0.01	0.02	0.04	9.61	100.24	0.06	3.77	4.58	2.65	0.06	3.86	3.03	4.64
3202873	Drill Core	0.49	0.33	0.16	0.83	<0.01	0.32	<0.01	0.02	0.08	15.03	99.67	0.03	4.41	10.54	3.06	0.03	4.84	8.12	7.24
3202874	Drill Core	0.11	0.08	0.08	0.05	<0.01	0.06	<0.01	0.12	5.55	18.23	99.98	<0.01	0.88	26.95	0.63	<0.02	0.91	21.12	17.47
3202875	Drill Core	0.17	0.34	0.13	0.07	<0.01	0.08	0.01	0.10	7.22	24.59	100.01	0.02	2.90	29.92	1.47	<0.02	5.20	23.55	19.08
3202876	Drill Core	0.05	0.03	0.04	0.08	0.01	0.02	0.02	0.17	10.32	27.08	99.42	<0.01	0.59	43.21	0.53	<0.02	0.20	29.30	41.67
3202877	Drill Core	0.09	0.26	0.07	0.08	<0.01	0.04	0.04	0.47	6.39	22.83	99.39	<0.01	1.93	30.55	0.88	<0.02	3.85	21.40	27.41
3202878	Drill Core	0.91	0.24	0.71	0.80	0.02	0.43	<0.01	0.03	0.45	13.81	99.36	0.11	4.77	8.54	3.89	0.04	3.05	6.36	6.53
3202879	Drill Core	0.73	0.53	0.41	0.16	<0.01	0.20	<0.01	0.01	0.25	17.51	99.88	0.11	4.35	7.25	1.47	<0.02	10.53	5.67	4.72
3202880	Rock Pulp	3.59	0.28	0.26	0.12	<0.01	0.08	0.04	3.53	5.02	13.77	97.33	<0.01	3.23	8.28	0.41	<0.02	10.30	2.31	17.87
3202881	Drill Core	0.62	0.47	0.31	0.15	<0.01	0.12	<0.01	<0.01	0.08	16.97	92.73	0.04	6.96	7.35	2.23	<0.02	17.33	4.95	7.18
3202882	Drill Core	0.55	0.49	0.28	0.12	<0.01	0.10	<0.01	<0.01	0.10	17.42	92.43	0.04	6.78	7.37	1.80	<0.02	18.27	5.42	5.85
3202883	Drill Core	0.66	0.48	0.36	0.15	<0.01	0.19	<0.01	0.23	0.75	15.20	99.85	0.14	5.12	3.45	2.42	<0.02	9.84	2.23	3.63
3202884	Drill Core	0.80	0.19	0.51	0.22	<0.01	0.16	<0.01	<0.01	0.19	14.98	94.78	0.13	5.94	6.32	2.58	<0.02	12.28	4.67	4.95
3202885	Drill Core	0.67	0.20	0.41	0.53	0.02	0.11	<0.01	<0.01	0.03	15.67	98.04	0.07	6.04	2.46	2.69	0.03	12.15	1.59	2.60
3202886	Drill Core	0.94	0.05	2.29	0.66	0.09	0.30	<0.01	0.02	0.14	10.85	98.65	0.07	1.34	7.16	0.82	<0.02	1.88	5.82	4.03
3202887	Drill Core	0.76	0.18	0.35	0.08	<0.01	0.16	<0.01	<0.01	0.09	18.88	96.73	0.12	6.27	4.49	1.74	<0.02	16.55	3.20	3.86
3202888	Drill Core	0.87	0.12	0.36	0.10	<0.01	0.19	<0.01	<0.01	<0.01	16.88	97.26	0.13	5.64	2.64	1.75	0.02	14.20	1.60	3.11



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Project: MacMillan Pass

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CERTIFICATE OF ANALYSIS

WHI20000542.1

	Method Analyte Unit MDL	WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
3202889	Drill Core	5.65	25.7	28.7	76.8	41	<0.5	74.9	7.4	666	2.65	20	3.9	1.5	231	<0.5	14.4	<0.5	145	6.37	0.040
3202890	Drill Core	7.12	46.5	22.3	66.3	19	<0.5	84.1	7.7	716	2.89	16	5.9	1.6	279	<0.5	12.5	<0.5	136	7.57	0.054
3202891	Drill Core	6.00	12.5	17.6	33.8	10	<0.5	73.5	9.3	902	3.68	17	2.9	1.8	281	<0.5	14.0	<0.5	175	9.02	0.037
3202892	Drill Core	6.62	55.6	19.4	32.4	17	<0.5	64.3	4.8	689	1.98	11	5.6	1.5	256	<0.5	9.9	<0.5	138	6.96	0.048



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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
3202889	Drill Core	1.9	10.1	3.14	246	0.001	0.26	<0.01	0.11	<0.5	0.24	5.2	0.6	1.75	<5	3	53.05	7.49	4.22	8.95	5.48
3202890	Drill Core	2.5	10.5	3.73	309	0.002	0.29	<0.01	0.11	<0.5	0.31	5.7	0.5	1.86	<5	<2	48.32	7.06	4.53	10.59	6.28
3202891	Drill Core	3.8	12.3	4.57	219	0.002	0.23	0.01	0.10	<0.5	0.23	5.8	<0.5	2.33	<5	3	42.64	6.42	5.64	13.10	7.78
3202892	Drill Core	1.4	10.4	3.41	252	0.001	0.26	<0.01	0.11	<0.5	0.28	4.5	0.5	0.91	<5	<2	51.48	7.29	3.19	10.04	6.08



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	Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC010	TC010
	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
	Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	MDL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.02	0.15
3202889	Drill Core	1.01	0.08	0.39	0.09	<0.01	0.21	<0.01	<0.01	<0.01	16.10	97.16	0.16	5.87	2.00	2.39	0.04	12.64	1.20	2.39
3202890	Drill Core	0.88	0.09	0.37	0.11	<0.01	0.19	<0.01	<0.01	<0.01	18.71	97.25	0.13	7.16	2.15	3.07	0.03	14.85	1.35	2.40
3202891	Drill Core	0.78	0.12	0.33	0.08	<0.01	0.15	<0.01	<0.01	<0.01	20.60	97.72	0.10	6.49	2.64	1.32	<0.02	18.90	1.67	2.91
3202892	Drill Core	0.98	0.09	0.43	0.12	<0.01	0.22	<0.01	<0.01	<0.01	19.19	99.21	0.14	7.93	1.10	4.03	0.11	13.91	0.47	1.88



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QUALITY CONTROL REPORT

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	Method	WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
3202851	Drill Core	7.50	3.1	79.2	176.2	1660	1.7	85.4	7.0	57	3.39	119	13.6	1.3	1901	7.5	46.0	<0.5	86	2.76	1.383
3202882	Drill Core	1.92	37.7	21.7	76.9	984	1.0	150.7	12.4	3796	15.32	183	6.2	0.9	276	<0.5	25.6	<0.5	74	7.09	0.057
Pulp Duplicates																					
3202834	Drill Core	7.13	3.4	30.6	93.9	242	0.9	71.3	5.8	35	2.37	82	12.8	0.7	1091	1.0	34.1	<0.5	85	0.35	0.274
REP 3202834	QC		3.6	33.1	100.1	260	1.0	75.0	6.2	38	2.55	89	13.4	0.8	1186	1.0	35.4	<0.5	93	0.37	0.302
3202846	Drill Core	5.93	15.7	53.1	242.2	493	2.0	121.9	10.9	54	6.02	180	6.6	2.0	1533	1.5	72.1	<0.5	77	1.41	0.697
REP 3202846	QC																				
3202852	Drill Core	5.38	1.6	60.7	349.3	609	2.1	109.5	10.8	42	9.27	248	7.0	0.5	814	2.8	67.8	<0.5	52	1.13	0.557
REP 3202852	QC																				
3202855	Drill Core	4.48	8.6	109.5	359.7	12111	7.0	123.8	17.3	1735	23.46	285	16.8	<0.5	261	77.1	135.3	<0.5	97	0.39	0.226
REP 3202855	QC																				
3202857	Drill Core	4.05	21.3	31.6	54.1	70	1.0	63.4	11.1	3851	11.98	84	5.2	<0.5	248	<0.5	31.0	<0.5	83	0.42	0.163
REP 3202857	QC																				
3202858	Drill Core	4.16	8.5	53.6	161.4	1295	2.4	64.1	9.2	5920	21.51	126	9.2	<0.5	120	8.3	39.0	<0.5	104	0.30	0.112
REP 3202858	QC																				
3202867	Drill Core	3.63	32.0	29.3	86.5	52	1.3	97.0	7.9	2346	8.63	134	4.9	<0.5	72	<0.5	35.3	<0.5	280	0.16	0.041
REP 3202867	QC		32.0	30.3	86.8	58	1.4	103.8	7.9	2366	8.49	134	5.0	<0.5	75	<0.5	35.4	<0.5	273	0.15	0.037
3202878	Drill Core	4.23	11.2	57.9	385.3	4624	3.0	145.9	21.5	1881	11.73	246	6.2	1.3	422	16.5	49.0	<0.5	169	0.78	0.352
REP 3202878	QC																				
3202883	Drill Core	3.81	23.0	56.0	2352.7	7437	2.9	222.5	16.0	3757	15.30	49	8.0	1.0	38	35.9	19.9	<0.5	206	0.46	0.063
REP 3202883	QC																				
3202884	Drill Core	5.01	20.2	71.5	105.5	1800	0.6	149.9	13.5	1493	8.93	45	4.9	1.4	218	7.7	20.6	<0.5	157	5.50	0.093
REP 3202884	QC																				
3202887	Drill Core	6.77	18.9	27.7	64.2	794	<0.5	89.8	13.7	1382	5.70	36	3.2	1.3	292	3.7	18.3	<0.5	176	8.08	0.032
REP 3202887	QC																				
3202889	Drill Core	5.65	25.7	28.7	76.8	41	<0.5	74.9	7.4	666	2.65	20	3.9	1.5	231	<0.5	14.4	<0.5	145	6.37	0.040
REP 3202889	QC																				
Core Reject Duplicates																					
3202840	Rock	0.60	<0.5	<0.5	1.0	<5	<0.5	<0.5	<0.5	120	0.08	<5	<0.5	<0.5	74	<0.5	<0.5	<0.5	<10	32.31	0.008



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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
3202851	Drill Core	4.5	31.2	0.01	1363	0.004	0.80	0.01	0.21	<0.5	2.04	2.8	1.2	3.59	<5	6	70.08	7.09	4.88	3.57	0.11
3202882	Drill Core	1.6	11.5	2.35	178	0.001	0.33	<0.01	0.07	<0.5	0.46	7.0	0.7	7.28	<5	<2	30.66	5.64	23.03	9.91	4.03
Pulp Duplicates																					
3202834	Drill Core	2.7	26.2	<0.01	1337	0.002	0.66	<0.01	0.13	<0.5	0.72	1.9	0.8	2.61	<5	7	73.46	7.50	3.72	0.52	0.13
REP 3202834	QC	3.0	28.5	0.01	1378	0.003	0.73	<0.01	0.14	<0.5	0.72	2.2	0.9	2.80	<5	7					
3202846	Drill Core	5.9	16.2	0.03	926	0.003	0.69	<0.01	0.21	<0.5	1.17	1.7	1.8	6.74	<5	5	63.94	8.51	8.76	1.91	0.19
REP 3202846	QC																				
3202852	Drill Core	1.7	20.2	<0.01	345	0.002	0.41	<0.01	0.08	<0.5	0.98	1.4	2.8	10.45	<5	3	67.77	3.70	13.34	1.50	0.05
REP 3202852	QC																68.08	3.71	13.32	1.51	0.06
3202855	Drill Core	0.6	23.9	0.19	100	0.001	0.79	<0.01	0.06	<0.5	11.23	3.9	3.4	23.12	<5	2	34.84	3.36	34.29	0.50	0.35
REP 3202855	QC																				
3202857	Drill Core	0.8	13.2	0.39	391	0.001	0.34	<0.01	0.07	<0.5	0.35	4.1	0.7	3.09	<5	<2	63.41	3.08	17.39	0.57	0.73
REP 3202857	QC																63.60	3.10	17.60	0.55	0.72
3202858	Drill Core	<0.5	12.7	0.68	214	0.001	0.45	<0.01	0.03	<0.5	1.39	3.6	0.9	8.36	<5	2	44.39	1.82	31.54	0.39	1.12
REP 3202858	QC																				
3202867	Drill Core	<0.5	14.5	0.24	418	0.001	0.19	<0.01	0.05	<0.5	0.36	1.7	0.6	3.14	<5	<2	74.10	1.30	12.21	0.23	0.47
REP 3202867	QC	<0.5	14.5	0.24	399	0.001	0.19	<0.01	0.05	<0.5	0.38	1.4	0.5	3.07	<5	<2					
3202878	Drill Core	2.1	49.3	0.24	484	0.003	0.72	<0.01	0.11	<0.5	4.15	3.8	0.8	7.93	<5	5	55.27	7.63	17.22	1.09	0.49
REP 3202878	QC																				
3202883	Drill Core	1.1	19.8	0.79	679	0.002	0.59	<0.01	0.07	<0.5	5.86	7.4	1.3	3.06	<5	5	50.13	6.69	22.69	0.67	1.37
REP 3202883	QC																				
3202884	Drill Core	2.2	20.2	2.41	202	0.001	0.31	<0.01	0.09	<0.5	1.79	7.2	1.5	6.07	<5	5	44.16	8.08	13.44	7.78	4.12
REP 3202884	QC																44.26	8.11	13.51	7.81	4.16
3202887	Drill Core	2.6	14.9	3.64	186	0.001	0.21	<0.01	0.09	<0.5	1.07	10.4	0.6	4.11	<5	<2	42.53	6.93	8.69	11.63	6.35
REP 3202887	QC																				
3202889	Drill Core	1.9	10.1	3.14	246	0.001	0.26	<0.01	0.11	<0.5	0.24	5.2	0.6	1.75	<5	3	53.05	7.49	4.22	8.95	5.48
REP 3202889	QC																53.05	7.46	4.22	8.95	5.41
Core Reject Duplicates																					
3202840	Rock	1.3	<0.5	1.09	16	0.002	0.02	<0.01	<0.01	<0.5	0.08	<0.5	<0.5	<0.05	<5	<2	11.24	0.14	0.14	47.01	3.45



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	Method Analyte Unit MDL	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC010	TC010
		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
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		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	0.02	0.15
3202851	Drill Core	1.08	<0.01	0.32	2.86	0.02	0.58	<0.01	0.02	0.17	8.06	99.02	0.06	4.53	3.67	4.44	0.07	<0.08	2.62	3.15
3202882	Drill Core	0.55	0.49	0.28	0.12	<0.01	0.10	<0.01	<0.01	0.10	17.42	92.43	0.04	6.78	7.37	1.80	<0.02	18.27	5.42	5.85
Pulp Duplicates																				
3202834	Drill Core	0.90	<0.01	0.34	1.96	0.02	0.76	<0.01	0.02	0.03	7.94	97.44	0.06	4.41	2.92	4.26	0.14	<0.08	2.21	2.14
REP 3202834	QC																			
3202846	Drill Core	1.45	<0.01	0.45	1.55	0.01	0.73	<0.01	0.03	0.05	10.85	98.63	0.08	5.22	6.93	5.09	0.13	<0.08	5.33	4.79
REP 3202846	QC													5.04	6.85					
3202852	Drill Core	0.46	<0.01	0.15	1.23	<0.01	0.25	<0.01	0.03	0.06	10.04	98.66	0.04	2.72	10.53	2.65	0.06	<0.08	7.85	8.03
REP 3202852	QC	0.47	<0.01	0.14	1.23	<0.01	0.24	<0.01	0.04	0.06	10.04	99.01	0.04						7.55	
3202855	Drill Core	0.32	0.20	0.10	0.49	<0.01	0.18	<0.01	0.04	1.16	22.47	98.67	0.04	4.30	23.19	3.52	0.02	2.80	16.95	18.70
REP 3202855	QC																	2.66		
3202857	Drill Core	0.43	0.46	0.13	0.39	<0.01	0.24	<0.01	0.01	0.01	12.84	99.75	0.04	5.46	3.13	3.57	0.17	6.31	2.14	2.96
REP 3202857	QC	0.43	0.47	0.13	0.38	<0.01	0.24	<0.01	0.01	<0.01	12.84	100.11	0.04							
3202858	Drill Core	0.16	0.71	0.05	0.24	0.06	0.09	<0.01	0.02	0.12	18.44	99.21	0.05	5.34	8.16	2.42	0.04	10.54	5.38	8.32
REP 3202858	QC																0.04			
3202867	Drill Core	0.20	0.30	0.10	0.10	<0.01	0.15	<0.01	<0.01	<0.01	10.14	99.31	0.15	5.36	3.31	3.83	0.31	4.47	2.21	3.29
REP 3202867	QC																			
3202878	Drill Core	0.91	0.24	0.71	0.80	0.02	0.43	<0.01	0.03	0.45	13.81	99.36	0.11	4.77	8.54	3.89	0.04	3.05	6.36	6.53
REP 3202878	QC													4.73	8.40					
3202883	Drill Core	0.66	0.48	0.36	0.15	<0.01	0.19	<0.01	0.23	0.75	15.20	99.85	0.14	5.12	3.45	2.42	<0.02	9.84	2.23	3.63
REP 3202883	QC																		2.05	
3202884	Drill Core	0.80	0.19	0.51	0.22	<0.01	0.16	<0.01	<0.01	0.19	14.98	94.78	0.13	5.94	6.32	2.58	<0.02	12.28	4.67	4.95
REP 3202884	QC	0.82	0.20	0.51	0.22	0.02	0.18	<0.01	<0.01	0.19	14.98	95.11	0.13							
3202887	Drill Core	0.76	0.18	0.35	0.08	<0.01	0.16	<0.01	<0.01	0.09	18.88	96.73	0.12	6.27	4.49	1.74	<0.02	16.55	3.20	3.86
REP 3202887	QC																		16.03	
3202889	Drill Core	1.01	0.08	0.39	0.09	<0.01	0.21	<0.01	<0.01	<0.01	16.10	97.16	0.16	5.87	2.00	2.39	0.04	12.64	1.20	2.39
REP 3202889	QC	1.01	0.09	0.39	0.10	<0.01	0.22	<0.01	<0.01	<0.01	16.10	97.09	0.16				0.03			
Core Reject Duplicates																				
3202840	Rock	<0.01	0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	37.43	99.46	<0.01	10.67	<0.02	0.81	<0.02	36.16	<0.02	<0.15



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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 3202840	QC		<0.5	<0.5	0.8	<5	<0.5	0.7	<0.5	118	0.08	<5	<0.5	<0.5	83	<0.5	<0.5	<0.5	<10	32.10	0.010
3202874	Drill Core	4.13	0.9	117.2	1164.0	53549	9.1	127.6	23.0	620	21.71	560	0.8	<0.5	14	265.2	108.7	<0.5	15	0.06	0.022
DUP 3202874	QC		0.8	126.4	1184.9	50893	9.0	124.0	23.5	711	22.34	551	0.8	<0.5	16	246.8	110.4	<0.5	14	0.06	0.020
Reference Materials																					
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD GGC-09	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS314-1	Standard																				
STD GS314-1	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD OREAS135	Standard		7.9	280.4	16707.7	28586	57.2	33.8	28.5	4015	8.72	994	9.2	10.7	29	71.5	42.3	5.5	31	1.85	0.094
STD OREAS133B(D)	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS605	Standard		4.6	48058.1	860.9	2120	999.0	1579.1	97.0	78	3.56	1689	1.0	2.5	53	14.3	306.3	20.6	<10	0.18	0.011
STD OREAS605	Standard		4.7	48861.4	934.5	2154	978.1	1569.2	98.5	86	3.66	1768	0.9	2.6	55	15.0	317.3	20.6	<10	0.18	0.012
STD OREAS72B	Standard																				
STD OREAS72B	Standard																				
STD OREAS927-AR	Standard		1.0	10692.5	218.6	730	4.7	29.7	30.2	1105	8.23	12	1.7	12.6	13	1.0	1.5	71.5	34	0.31	0.059
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD SY-4(D)	Standard																				
STD SY-4(D)	Standard																				



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		AQ270 La ppm 0.5	AQ270 Cr ppm 0.5	AQ270 Mg % 0.01	AQ270 Ba ppm 5	AQ270 Ti % 0.001	AQ270 Al % 0.01	AQ270 Na % 0.01	AQ270 K % 0.01	AQ270 W ppm 0.5	AQ270 Hg ppm 0.05	AQ270 Sc ppm 0.5	AQ270 Ti ppm 0.5	AQ270 S % 0.05	AQ270 Ga ppm 5	AQ270 Se ppm 2	LF725 SiO2 % 0.01	LF725 Al2O3 % 0.01	LF725 Fe2O3 % 0.01	LF725 CaO % 0.01	LF725 MgO % 0.01
DUP 3202840	QC	1.2	0.5	1.09	16	0.002	0.02	<0.01	<0.01	<0.5	0.06	<0.5	<0.5	<0.05	<5	<2	11.32	0.14	0.14	47.45	3.48
3202874	Drill Core	<0.5	9.2	0.10	104	<0.001	0.10	<0.01	0.02	<0.5	40.02	0.9	3.6	26.00	<5	<2	40.32	1.16	32.54	0.09	0.18
DUP 3202874	QC	<0.5	9.2	0.11	103	<0.001	0.09	<0.01	0.02	<0.5	37.71	1.2	3.6	26.51	<5	<2	39.81	1.11	32.73	0.09	0.20
Reference Materials																					
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD GGC-09	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS314-1	Standard																				
STD GS314-1	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD OREAS135	Standard	40.4	21.9	0.85	446	0.027	1.16	0.02	0.52	3.1	1.32	4.3	6.2	7.38	<5	2					
STD OREAS133B(D)	Standard																33.70	6.92	11.59	5.30	3.76
STD OREAS133B(D)	Standard																33.78	6.88	11.51	5.28	3.81
STD OREAS605	Standard	8.0	29.7	0.03	202	0.010	0.76	0.03	0.16	6.7	1.55	1.0	14.9	7.80	7	83					
STD OREAS605	Standard	8.3	30.9	0.03	269	0.010	0.73	0.03	0.16	7.6	1.49	1.2	16.0	7.90	7	82					
STD OREAS72B	Standard																51.19	8.98	9.90	3.94	16.09
STD OREAS72B	Standard																51.05	8.97	9.84	3.95	16.02
STD OREAS927-AR	Standard	28.7	40.1	1.96	47	0.088	3.32	<0.01	0.29	5.3	0.17	4.8	<0.5	1.82	9	19					
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD SY-4(D)	Standard																49.93	20.93	6.21	7.99	0.52
STD SY-4(D)	Standard																50.10	20.88	6.20	8.00	0.53



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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 %	TC010 S/S- %	TC010 SO4 %
		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	0.02	0.15
DUP 3202840	QC	<0.01	0.02	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	37.67	100.25	<0.01	10.74	<0.02	1.09	<0.02	35.38	<0.02	<0.15
3202874	Drill Core	0.11	0.08	0.08	0.05	<0.01	0.06	<0.01	0.12	5.55	18.23	99.98	<0.01	0.88	26.95	0.63	<0.02	0.91	21.12	17.47
DUP 3202874	QC	0.10	0.09	0.09	0.05	<0.01	0.05	<0.01	0.12	5.16	18.43	99.39	<0.01	0.92	27.80	0.64	<0.02	1.00	18.91	26.63
Reference Materials																				
STD COO2	Standard																	3.51		
STD COO2	Standard																	3.52		
STD COO2	Standard																	3.63		
STD COO2	Standard																	3.69		
STD GGC-09	Standard																	2.33		
STD GGC-10	Standard																	4.96		
STD GGC-10	Standard																	4.93		
STD GS311-1	Standard													0.96	2.35					
STD GS311-1	Standard													0.95	2.33					
STD GS314-1	Standard													1.30	28.08					
STD GS314-1	Standard													1.30	29.36					
STD GS910-4	Standard													2.65	8.17					
STD GS910-4	Standard													2.62	8.62					
STD OREAS135	Standard																			
STD OREAS133B(D)	Standard	3.47	0.16	0.22	0.10	<0.01	0.07	0.03	5.06	11.36	13.03	98.11	<0.01							
STD OREAS133B(D)	Standard	3.45	0.15	0.22	0.09	<0.01	0.07	0.03	5.07	11.37	13.03	98.11	0.01							
STD OREAS605	Standard																			
STD OREAS605	Standard																			
STD OREAS72B	Standard	1.33	0.13	0.35	0.06	0.14	0.03	0.02	<0.01	0.01	5.04	98.52	0.01							
STD OREAS72B	Standard	1.33	0.14	0.35	0.06	0.15	0.04	0.02	<0.01	<0.01	5.00	98.23	0.01							
STD OREAS927-AR	Standard																			
STD RTS-3A	Standard																		7.18	
STD RTS-3A	Standard																		6.66	
STD SY-4(D)	Standard	1.66	0.12	0.30	0.15	<0.01	0.03	<0.01	0.01	0.01	4.56	99.52	<0.01							
STD SY-4(D)	Standard	1.66	0.12	0.30	0.13	<0.01	0.03	<0.01	0.01	0.01	4.56	99.68	<0.01							



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		WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
STD OREAS135 Expected			8.25	294	17000	28000	55.2	36	29.6	3960	8.97	937	9.4	10.4	26.5	67	38	5.1	33.4	1.83	0.086
STD OREAS605 Expected			4.75	49800	856	2170	984	1568	96	83.44	3.6707	1674	0.9		49	13.6	290	19	7.8	0.182	0.0105
STD OREAS927-AR Expected			1.06	10715	203	726	4.9	30.9	29.4	1110	8.15	13.5	1.7	12.5	13.1	1.1	1.3	66	34	0.3	0.054
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD GS314-1 Expected																					
STD SY-4(D) Expected																					
STD OREAS72B Expected																					
STD OREAS133B(D) Expected																					
STD GGC-09 Expected																					
STD GGC-10 Expected																					
STD RTS-3A Expected																					
STD COO2 Expected																					
BLK	Blank		<0.5	<0.5	0.8	<5	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<10	<0.01	<0.001
BLK	Blank		<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<10	<0.01	0.002
SI BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
SI BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank		0.6	4.0	1.1	28	<0.5	1.0	4.1	434	1.86	<5	<0.5	1.9	22	<0.5	<0.5	<0.5	25	0.62	0.040
ROCK-WHI	Prep Blank		0.8	2.2	1.1	26	<0.5	1.1	3.8	462	1.96	<5	<0.5	2.4	25	<0.5	<0.5	<0.5	27	0.64	0.043



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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 OREAS135 Expected		39.8	22	0.833	366	0.026	1.09	0.017	0.487	2.93	1.21	3.51	6.27	7.08	4.8						
STD OREAS605 Expected		7.5	28.8	0.0289	222	0.0103	0.73	0.0328	0.134	7.1	1.7	1.3	15.5	7.86	6.7	77					
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 GS314-1 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-09 Expected																					
STD GGC-10 Expected																					
STD RTS-3A Expected																					
STD COO2 Expected																					
BLK	Blank	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.05	<5	<2					
BLK	Blank	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.05	<5	<2					
SI BLK	Blank																98.79	0.32	<0.01	0.03	0.02
BLK	Blank																				
BLK	Blank																				
SI BLK	Blank																99.65	0.31	0.02	0.02	0.02
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank	6.2	3.4	0.41	49	0.102	0.93	0.12	0.09	<0.5	<0.05	2.4	<0.5	0.13	<5	<2	70.50	14.16	3.28	2.40	0.91
ROCK-WHI	Prep Blank	6.4	3.8	0.44	58	0.111	0.98	0.13	0.09	<0.5	<0.05	3.4	<0.5	<0.05	<5	<2	70.40	14.16	3.21	2.35	0.90



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Project:

MacMillan Pass

Report Date:

January 22, 2021

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QUALITY CONTROL REPORT

WHI20000542.1

		LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC010	TC010			
		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		
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%		
		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	0.02	0.15		
STD OREAS135 Expected																						
STD OREAS605 Expected																						
STD OREAS927-AR Expected																						
STD GS311-1 Expected														1.02	2.35							
STD GS910-4 Expected														2.65	8.27							
STD GS314-1 Expected														1.41	29.11							
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																						
STD GGC-09 Expected																			2.41			
STD GGC-10 Expected																			4.79			
STD RTS-3A Expected																				7		
STD COO2 Expected																				3.43		
BLK	Blank																					
BLK	Blank																					
SI BLK	Blank	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	99.17	<0.01									
BLK	Blank													<0.02	<0.02							
BLK	Blank													<0.02	<0.02							
SI BLK	Blank	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	100.04	<0.01									
BLK	Blank																		<0.02			
BLK	Blank																		<0.02			
BLK	Blank																		<0.02			
BLK	Blank																		<0.02			
BLK	Blank																		<0.08			
BLK	Blank																		<0.08			
Prep Wash																						
ROCK-WHI	Prep Blank	2.03	0.09	0.34	0.10	<0.01	0.07	<0.01	<0.01	<0.01	0.74	99.00	<0.01	0.07	<0.02	<0.02	<0.02	0.19	<0.02	<0.15		
ROCK-WHI	Prep Blank	2.06	0.09	0.37	0.09	<0.01	0.07	<0.01	0.01	<0.01	0.83	99.01	<0.01	0.06	<0.02	0.02	<0.02	0.14	<0.02	<0.15		