



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 06, 2020
Analysis Start: January 06, 2021
Report Date: January 17, 2021
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CERTIFICATE OF ANALYSIS

WHI20000535.1

CLIENT JOB INFORMATION

Project: MacMillan Pass
Shipment ID: FWZ20-BV-012
P.O. Number
Number of Samples: 50

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	49	Crush, split and pulverize 500g rock to 200 mesh			WHI
SLBHP	1	Sort, label and box pulps			WHI
CRUBW	49	Extra clean rock wash between samples in crusher			WHI
PULSW	49	Extra Wash with Silica between each sample			VAN
AQ270	50	1:1:1 Aqua Regia digestion ICP-ES/ICP-MS analysis	1	Completed	VAN
LF725	50	Li2B4O7/LiBO2 fusion, analysis by XRF		Completed	VAN
SHP01	50	Per sample shipping charges for branch shipments			VAN
TC000	50	Total C/S Analysis by Leco	0.1	Completed	VAN
TC007	50	Graphite and Organic C by Leco After Ignition	0.1	Completed	VAN
TC006	50	Inorganic Carbon	0.2	Completed	VAN
TC010	50	Analysis by Leco after sodium carbonate leach	0.1	Completed	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.



BUREAU VERITAS MINERAL LABORATORIES
Canada

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MacMillan Pass

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CERTIFICATE OF ANALYSIS

WHI20000535.1

	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
3202251	Drill Core																							
3202252	Drill Core																							
3202253	Drill Core																							
3202254	Drill Core																							
3202255	Drill Core																							
3202256	Drill Core																							
3202257	Drill Core																							
3202258	Drill Core																							
3202259	Drill Core																							
3202260	Drill Core																							
3202261	Drill Core																							
3202262	Drill Core																							
3202263	Drill Core																							
3202264	Drill Core																							
3202265	Drill Core																							
3202266	Drill Core																							
3202267	Drill Core																							
3202268	Drill Core																							
3202269	Drill Core																							
3202270	Rock Pulp																							
3202271	Drill Core																							
3202272	Drill Core																							
3202273	Drill Core																							
3202274	Drill Core																							
3202275	Drill Core																							
3202276	Drill Core																							
3202277	Drill Core																							
3202278	Drill Core																							
3202279	Drill Core																							
3202280	Drill Core																							



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CERTIFICATE OF ANALYSIS

WHI20000535.1

	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
3202251	Drill Core	3.3	313.7	0.84	41	0.009	0.85	<0.01	<0.01	<0.5	6.32	14.4	<0.5	0.73	<5	<2	20.42	4.15	46.57	0.73	1.42
3202252	Drill Core	0.9	349.1	0.83	69	0.015	1.22	<0.01	<0.01	<0.5	6.92	16.0	<0.5	0.59	5	<2	22.24	4.99	44.17	0.77	1.41
3202253	Drill Core	1.0	294.2	0.70	247	0.011	1.44	<0.01	0.01	<0.5	1.10	12.1	0.5	0.60	6	<2	31.86	6.68	37.40	0.80	1.19
3202254	Drill Core	0.5	184.4	0.10	115	0.004	0.76	<0.01	0.02	<0.5	126.41	2.4	3.3	15.58	8	2	46.58	6.36	16.70	0.39	0.17
3202255	Drill Core	1.7	257.8	0.63	40	0.008	1.01	<0.01	<0.01	<0.5	79.41	10.3	0.5	4.71	8	<2	34.20	5.29	29.93	0.73	1.07
3202256	Drill Core	0.9	321.9	0.94	30	0.015	1.05	<0.01	<0.01	<0.5	18.27	15.0	<0.5	1.43	5	<2	19.23	3.63	45.78	0.89	1.61
3202257	Drill Core	1.8	327.9	0.91	26	0.009	1.26	<0.01	<0.01	<0.5	5.72	14.4	<0.5	0.55	<5	<2	27.06	4.31	41.96	0.80	1.55
3202258	Drill Core	0.8	177.7	0.63	62	0.005	1.06	<0.01	0.02	<0.5	0.07	16.3	<0.5	0.66	<5	<2	35.31	11.72	31.49	0.54	1.07
3202259	Drill Core	0.5	42.5	0.18	59	0.002	0.66	<0.01	0.02	<0.5	2.70	6.6	9.2	26.59	<5	3	22.34	5.80	45.10	0.27	0.37
3202260	Drill Core	<0.5	62.7	0.27	101	0.003	0.58	<0.01	0.02	<0.5	30.31	7.2	9.6	22.79	<5	<2	21.61	7.98	39.72	0.25	0.53
3202261	Drill Core	<0.5	70.0	0.43	67	0.001	0.44	<0.01	0.04	<0.5	5.55	15.0	2.4	5.51	<5	4	43.17	8.46	27.08	0.40	0.84
3202262	Drill Core	1.7	173.1	0.58	123	0.003	1.02	<0.01	0.05	<0.5	17.97	11.1	1.5	3.76	<5	3	44.29	8.34	25.15	0.72	0.99
3202263	Drill Core	2.1	314.3	0.90	55	0.015	1.64	<0.01	0.02	<0.5	27.76	13.2	1.1	4.80	6	<2	24.93	5.29	40.24	0.93	1.51
3202264	Drill Core	1.6	263.5	0.74	72	0.009	1.15	<0.01	0.02	<0.5	15.68	16.1	<0.5	2.60	<5	<2	29.15	4.84	38.58	0.90	1.25
3202265	Drill Core	0.9	155.3	0.57	60	0.004	1.22	<0.01	0.03	<0.5	1.55	16.7	1.2	3.42	<5	<2	34.88	13.35	30.49	0.47	0.99
3202266	Drill Core	5.6	181.0	0.66	66	0.006	1.06	<0.01	0.02	<0.5	4.14	12.3	6.2	14.21	<5	<2	21.60	5.80	44.62	0.60	1.08
3202267	Drill Core	1.3	159.0	0.63	81	0.003	0.42	<0.01	0.03	<0.5	0.56	13.2	<0.5	1.45	<5	<2	32.93	5.67	35.61	0.76	1.07
3202268	Drill Core	1.5	208.7	1.00	130	0.004	0.53	<0.01	0.04	<0.5	1.60	15.2	1.2	3.82	<5	<2	16.53	4.97	47.27	0.96	1.68
3202269	Drill Core	1.0	140.0	0.65	60	0.004	0.63	<0.01	0.03	<0.5	1.33	16.0	<0.5	1.15	<5	<2	36.46	8.61	32.13	0.76	1.09
3202270	Rock Pulp	25.5	15.5	2.81	147	0.020	1.05	0.01	0.77	0.9	0.96	3.6	26.0	4.97	<5	<2	43.68	8.69	8.21	7.45	5.41
3202271	Drill Core	<0.5	91.0	0.59	79	0.004	1.01	<0.01	0.02	<0.5	1.96	16.6	5.4	13.42	<5	2	21.08	7.77	43.09	0.45	0.98
3202272	Drill Core	<0.5	72.8	0.57	115	0.002	0.88	<0.01	0.02	<0.5	2.22	14.7	5.7	13.53	<5	<2	22.61	7.30	42.36	0.47	0.95
3202273	Drill Core	<0.5	83.5	0.44	86	0.003	0.66	<0.01	0.02	<0.5	1.65	10.9	7.5	21.19	<5	3	21.70	4.10	46.53	0.45	0.83
3202274	Drill Core	0.6	87.2	0.63	72	0.003	0.53	<0.01	0.03	<0.5	1.32	13.4	2.2	6.82	<5	<2	29.59	10.87	35.45	0.49	1.07
3202275	Drill Core	1.9	275.9	0.97	134	0.010	1.02	<0.01	0.03	<0.5	1.51	17.4	0.9	2.92	<5	<2	20.05	5.93	43.37	1.07	1.64
3202276	Drill Core	0.8	123.8	0.41	130	0.003	0.79	<0.01	0.06	<0.5	29.78	9.1	1.8	10.21	<5	5	31.72	7.09	32.97	0.79	0.79
3202277	Drill Core	0.5	98.7	0.37	83	0.002	0.26	<0.01	0.04	<0.5	12.65	8.4	0.7	2.45	<5	7	52.79	4.05	23.59	0.63	0.69
3202278	Drill Core	1.2	153.1	0.63	74	0.003	0.45	<0.01	0.03	<0.5	6.11	14.4	0.5	2.23	<5	3	38.19	6.67	31.97	0.85	1.06
3202279	Drill Core	<0.5	122.2	0.77	110	0.003	1.11	0.02	0.04	<0.5	23.29	25.3	0.8	2.96	<5	<2	18.86	10.79	37.73	0.68	1.24
3202280	Drill Core	0.7	140.6	0.61	68	0.003	0.81	<0.01	0.03	<0.5	42.29	15.3	0.6	4.25	<5	4	30.58	7.52	32.13	0.74	1.03



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CERTIFICATE OF ANALYSIS

WHI20000535.1

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
3202251 Drill Core	0.05	1.72	0.95	0.24	0.06	0.02	<0.01	<0.01	0.61	22.72	99.86	0.02	7.23	0.78	0.89	<0.02	23.21	0.41	1.10
3202252 Drill Core	0.04	1.59	0.98	0.32	0.06	0.02	<0.01	<0.01	0.69	21.81	99.31	0.03	6.86	0.62	0.90	<0.02	21.81	0.31	0.94
3202253 Drill Core	0.13	1.10	0.99	0.39	0.07	0.07	<0.01	<0.01	0.13	18.17	99.09	0.03	5.50	0.65	1.13	<0.02	16.00	0.35	0.92
3202254 Drill Core	0.18	0.09	1.28	0.30	0.08	0.07	0.01	0.02	12.20	11.39	98.98	0.02	0.48	15.82	0.16	<0.02	1.14	11.24	13.72
3202255 Drill Core	0.07	1.02	1.10	0.36	0.06	0.02	<0.01	<0.01	7.47	16.64	99.92	0.03	4.46	4.87	0.56	<0.02	14.23	2.48	7.18
3202256 Drill Core	0.03	1.77	0.88	0.33	0.06	0.03	<0.01	<0.01	1.71	23.22	99.61	0.02	7.35	1.57	0.92	<0.02	23.55	0.83	2.22
3202257 Drill Core	0.04	1.53	1.01	0.29	0.06	0.02	<0.01	<0.01	0.47	20.63	99.86	0.02	6.62	0.59	0.86	<0.02	21.07	0.15	1.34
3202258 Drill Core	0.20	1.03	1.31	0.23	0.06	0.07	<0.01	<0.01	0.04	16.62	99.81	0.04	4.60	0.74	0.69	<0.02	14.32	0.40	1.02
3202259 Drill Core	0.20	0.28	0.82	0.17	0.01	0.05	<0.01	0.04	0.13	23.36	99.07	0.03	1.70	27.91	0.62	<0.02	3.88	19.83	24.21
3202260 Drill Core	0.25	0.40	0.89	0.09	0.02	0.08	<0.01	0.06	3.88	22.10	98.92	0.03	2.08	23.75	0.38	<0.02	6.19	16.69	21.15
3202261 Drill Core	0.30	0.75	0.94	0.14	0.03	0.08	<0.01	0.02	0.55	16.12	99.14	0.04	4.37	5.80	1.44	0.04	10.58	3.73	6.20
3202262 Drill Core	0.39	0.68	1.13	0.42	0.05	0.11	<0.01	<0.01	1.95	14.04	98.83	0.04	3.71	4.02	0.92	0.04	10.10	2.52	4.49
3202263 Drill Core	0.12	1.13	1.15	0.45	0.06	0.04	<0.01	0.01	2.78	20.15	99.53	0.02	5.53	5.10	0.74	<0.02	17.53	2.75	7.03
3202264 Drill Core	0.11	1.21	1.05	0.40	0.06	0.04	<0.01	<0.01	1.56	19.56	99.11	0.03	5.81	2.72	0.87	<0.02	18.05	1.34	4.13
3202265 Drill Core	0.28	0.87	1.53	0.19	0.05	0.08	<0.01	<0.01	0.14	16.63	100.07	0.05	4.09	3.61	0.85	0.02	11.83	2.19	4.27
3202266 Drill Core	0.13	0.84	0.89	0.27	0.04	0.04	<0.01	0.03	0.42	22.77	99.30	0.03	4.49	13.96	0.99	<0.02	12.75	9.93	12.06
3202267 Drill Core	0.23	1.14	0.83	0.31	0.04	0.05	<0.01	<0.01	0.08	19.19	97.98	0.03	5.85	1.59	1.04	0.03	17.55	0.73	2.60
3202268 Drill Core	0.30	1.46	1.04	0.38	0.05	0.08	<0.01	<0.01	0.15	24.94	99.89	0.03	7.29	3.94	1.03	<0.02	22.92	3.28	1.98
3202269 Drill Core	0.21	1.12	1.06	0.35	0.04	0.05	<0.01	<0.01	0.15	17.63	99.76	0.04	5.27	1.25	0.85	0.03	16.06	0.89	1.07
3202270 Rock Pulp	4.20	0.23	0.27	0.12	<0.01	0.08	0.02	1.84	3.12	15.43	99.88	<0.01	3.26	4.97	0.26	<0.02	10.98	1.08	11.65
3202271 Drill Core	0.13	0.91	0.78	0.15	0.02	0.03	<0.01	0.04	0.21	22.83	98.58	0.03	4.49	13.23	0.98	<0.02	12.82	11.25	5.93
3202272 Drill Core	0.14	0.86	0.58	0.18	0.02	0.05	<0.01	0.04	0.27	22.41	98.37	0.03	4.42	13.25	0.85	<0.02	13.06	10.66	7.76
3202273 Drill Core	0.13	0.66	0.61	0.22	0.02	0.03	<0.01	0.05	0.10	23.97	99.48	0.03	3.28	21.40	0.61	<0.02	9.75	18.12	9.83
3202274 Drill Core	0.34	0.89	1.24	0.17	0.03	0.09	<0.01	<0.01	0.13	19.67	100.24	0.03	4.74	6.96	1.14	<0.02	13.16	5.51	4.34
3202275 Drill Core	0.19	1.38	1.13	0.48	0.06	0.06	<0.01	<0.01	0.17	23.01	98.65	0.04	6.79	3.10	1.05	<0.02	21.02	1.95	3.47
3202276 Drill Core	0.44	0.69	0.71	0.46	0.04	0.11	<0.01	0.02	3.51	19.06	99.36	0.06	4.67	10.19	1.52	<0.02	11.49	8.01	6.53
3202277 Drill Core	0.26	0.79	0.41	0.30	0.03	0.06	<0.01	<0.01	1.52	14.19	99.75	0.06	4.96	2.59	1.77	0.03	11.60	1.63	2.85
3202278 Drill Core	0.24	1.11	0.83	0.38	0.04	0.07	<0.01	<0.01	0.57	17.86	100.06	0.05	5.53	2.31	1.29	0.02	15.44	1.52	2.35
3202279 Drill Core	0.47	1.37	1.05	0.20	0.03	0.14	<0.01	<0.01	2.39	21.50	97.23	0.04	6.11	3.01	1.77	<0.02	15.91	2.07	2.81
3202280 Drill Core	0.20	1.09	0.90	0.31	0.03	0.04	0.01	0.03	4.68	18.79	99.30	0.05	5.42	4.17	1.97	<0.02	12.62	3.09	3.22



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		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
3202281	Drill Core	3.89	21.4	48.8	94.5	9319	3.5	120.3	23.4	4818	11.82	81	2.4	<0.5	79	34.8	55.4	<0.5	108	0.28	0.070
3202282	Drill Core	4.47	0.6	44.4	126.3	951	2.4	111.5	43.1	7273	25.18	230	<0.5	<0.5	86	2.4	38.1	<0.5	118	0.24	0.026
3202283	Drill Core	4.85	15.1	106.4	220.5	79931	6.2	194.5	40.6	1147	10.50	295	2.1	0.6	150	236.1	71.3	<0.5	80	0.44	0.203
3202284	Drill Core	5.39	9.5	72.3	152.8	31899	5.2	251.0	55.5	5005	18.13	244	2.3	0.7	137	80.2	72.4	<0.5	127	0.51	0.176
3202285	Drill Core	4.79	10.7	52.2	100.2	9836	2.6	205.6	37.6	5135	13.76	151	2.0	0.7	137	28.2	46.5	<0.5	94	0.49	0.160
3202286	Drill Core	4.35	10.4	73.5	91.5	30234	3.8	268.2	40.6	2792	10.69	210	1.9	0.7	141	83.1	67.4	<0.5	78	0.46	0.181
3202287	Drill Core	4.62	19.8	125.0	191.7	66540	5.4	338.5	47.8	2906	12.86	276	4.9	0.9	210	180.1	54.5	<0.5	115	0.67	0.283
3202288	Drill Core	3.71	21.8	93.0	140.9	18647	6.1	279.5	50.7	9096	23.25	218	17.6	1.3	184	45.9	61.0	<0.5	128	0.70	0.209
3202289	Drill Core	5.43	2.3	34.0	107.7	8913	1.7	231.6	34.9	13128	30.85	147	0.6	1.0	171	24.4	34.6	<0.5	120	0.74	0.184
3202290	Rock	0.68	1.6	53.2	2.2	68	<0.5	5.2	10.4	402	3.00	<5	0.9	2.8	95	<0.5	<0.5	<0.5	100	1.07	0.068
3202291	Drill Core	2.11	2.5	14.1	94.6	359	1.3	63.2	6.0	4350	10.54	51	<0.5	<0.5	35	1.3	20.1	<0.5	39	0.20	0.046
3202292	Drill Core	2.89	2.3	11.5	76.7	258	1.0	56.7	5.5	4619	10.96	50	<0.5	<0.5	34	1.0	20.4	<0.5	37	0.21	0.042
3202293	Drill Core	6.48	2.3	42.2	66.3	30981	4.6	44.8	5.6	6622	15.89	51	0.9	<0.5	27	114.8	42.9	<0.5	39	0.22	0.019
3202294	Drill Core	4.25	0.8	7.1	27.6	41	<0.5	38.7	3.0	6729	16.65	32	<0.5	<0.5	22	<0.5	13.4	<0.5	29	0.24	0.023
3202295	Drill Core	4.64	1.2	5.9	18.8	180	<0.5	30.6	2.9	7445	17.86	28	<0.5	<0.5	23	0.5	10.8	<0.5	32	0.26	0.030
3202296	Drill Core	4.22	5.8	16.1	71.8	5976	1.7	109.5	10.5	6884	19.09	91	1.9	<0.5	28	19.7	34.6	<0.5	38	0.26	0.030
3202297	Drill Core	4.03	0.6	9.7	28.3	2184	0.6	35.1	4.8	7432	18.11	30	<0.5	<0.5	20	7.3	13.1	<0.5	34	0.25	0.016
3202298	Drill Core	5.31	1.2	62.8	310.2	41204	8.6	112.1	29.2	5908	21.28	306	1.4	<0.5	27	142.6	63.2	<0.5	69	0.23	0.034
3202299	Drill Core	4.62	1.0	12.7	53.5	5230	1.5	52.3	9.9	6775	17.64	35	<0.5	<0.5	27	15.8	19.1	<0.5	54	0.26	0.031
3202300	Drill Core	6.35	1.4	103.2	103.8	106570	8.2	45.9	6.6	7133	18.90	42	1.0	<0.5	37	315.2	39.1	<0.5	66	0.26	0.041



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Project: MacMillan Pass
Report Date: January 17, 2021

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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
3202281	Drill Core	<0.5	44.7	0.29	82	0.001	0.36	<0.01	0.04	<0.5	8.52	10.9	0.9	2.09	<5	8	58.82	6.95	17.00	0.35	0.53
3202282	Drill Core	<0.5	91.6	0.61	57	0.006	1.91	<0.01	0.02	<0.5	1.32	23.8	1.1	7.10	<5	<2	26.27	14.65	36.37	0.32	1.01
3202283	Drill Core	0.6	94.9	0.13	72	0.002	1.00	<0.01	0.04	<0.5	66.68	3.7	1.2	11.13	7	5	52.30	8.59	14.88	0.61	0.27
3202284	Drill Core	0.6	145.2	0.48	42	0.003	1.43	<0.01	0.02	0.9	32.43	8.7	1.9	7.13	6	3	39.14	9.54	27.03	0.75	0.76
3202285	Drill Core	0.7	118.0	0.43	70	0.006	0.56	<0.01	0.04	0.7	10.59	6.9	0.8	2.88	<5	4	53.48	9.07	19.76	0.68	0.65
3202286	Drill Core	0.7	89.9	0.26	147	0.003	0.67	<0.01	0.05	0.7	33.39	4.6	2.5	5.56	<5	4	58.05	9.28	15.17	0.65	0.40
3202287	Drill Core	1.0	184.8	0.33	127	0.006	1.60	<0.01	0.04	0.6	71.89	5.9	1.2	7.32	7	4	43.13	12.04	18.16	0.94	0.49
3202288	Drill Core	0.9	224.2	0.55	73	0.004	1.04	<0.01	0.03	0.5	18.80	13.0	0.7	4.23	<5	4	28.26	10.19	34.89	1.00	0.99
3202289	Drill Core	2.1	318.3	0.83	41	0.006	0.96	<0.01	0.02	0.5	9.37	15.7	0.5	2.37	<5	<2	17.31	5.30	46.74	1.08	1.43
3202290	Rock	6.2	6.4	0.85	194	0.186	1.96	0.27	0.33	<0.5	0.06	3.7	<0.5	<0.05	6	<2	60.53	17.03	6.27	6.23	2.80
3202291	Drill Core	<0.5	24.1	0.30	57	<0.001	0.14	<0.01	0.03	0.5	0.40	4.6	<0.5	0.71	<5	<2	71.46	2.94	15.60	0.31	0.49
3202292	Drill Core	<0.5	23.5	0.33	147	<0.001	0.13	<0.01	0.04	<0.5	0.19	4.5	<0.5	0.62	<5	<2	69.93	2.84	15.72	0.31	0.52
3202293	Drill Core	<0.5	19.2	0.49	65	<0.001	0.19	<0.01	0.03	0.6	23.17	6.1	<0.5	2.46	<5	<2	55.47	2.11	23.28	0.32	0.75
3202294	Drill Core	<0.5	16.1	0.48	41	<0.001	0.09	<0.01	0.02	0.5	0.09	5.6	<0.5	0.51	<5	<2	56.87	1.87	25.06	0.35	0.74
3202295	Drill Core	<0.5	18.6	0.47	41	<0.001	0.11	<0.01	0.02	0.6	0.30	4.4	<0.5	0.44	<5	<2	55.14	1.83	27.01	0.38	0.85
3202296	Drill Core	<0.5	35.6	0.50	47	<0.001	0.27	<0.01	0.03	0.7	4.08	5.5	<0.5	3.15	<5	3	51.64	2.36	28.19	0.38	0.79
3202297	Drill Core	<0.5	16.8	0.49	36	<0.001	0.11	<0.01	0.03	<0.5	1.36	5.8	<0.5	0.64	<5	<2	54.63	1.79	26.82	0.35	0.87
3202298	Drill Core	<0.5	59.5	0.49	42	0.002	0.97	<0.01	0.02	<0.5	28.14	10.5	2.6	8.36	6	<2	40.49	3.73	31.49	0.33	0.88
3202299	Drill Core	<0.5	42.0	0.45	44	0.001	0.82	<0.01	0.03	<0.5	3.75	8.5	<0.5	1.06	<5	<2	53.21	3.98	26.03	0.38	0.80
3202300	Drill Core	<0.5	44.8	0.48	541	<0.001	0.63	<0.01	0.02	<0.5	61.49	11.3	1.2	6.07	5	2	36.76	2.73	28.26	0.38	0.87



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Report Date: January 17, 2021

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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	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-
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		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
3202281	Drill Core	0.35	0.59	0.75	0.16	0.01	0.07	<0.01	<0.01	0.91	11.73	98.53	0.08	4.23	2.30	2.39	0.08	6.43	1.64
3202282	Drill Core	0.21	0.92	1.45	0.06	0.02	0.06	<0.01	0.01	0.10	18.64	100.25	0.04	3.94	7.34	1.62	<0.02	8.49	6.18
3202283	Drill Core	0.28	0.14	0.84	0.45	0.03	0.06	0.01	0.02	8.16	10.92	99.63	0.06	1.91	11.42	1.48	0.06	1.36	9.42
3202284	Drill Core	0.17	0.65	1.02	0.41	0.03	0.03	<0.01	0.01	3.36	15.42	99.21	0.05	3.58	7.54	1.70	0.02	6.81	5.94
3202285	Drill Core	0.33	0.65	1.13	0.38	0.04	0.08	<0.01	<0.01	0.95	12.27	99.78	0.06	3.53	3.18	1.71	0.04	6.55	2.34
3202286	Drill Core	0.45	0.35	0.97	0.44	0.04	0.10	<0.01	<0.01	3.14	10.13	100.04	0.06	2.25	5.78	1.23	0.04	3.58	4.56
3202287	Drill Core	0.47	0.37	1.39	0.67	0.06	0.11	<0.01	0.01	6.75	11.89	98.30	0.07	2.10	7.89	0.98	<0.02	4.04	6.22
3202288	Drill Core	0.26	1.17	1.51	0.49	0.06	0.05	<0.01	0.01	1.86	19.07	100.35	0.06	5.07	4.84	1.84	<0.02	11.78	3.76
3202289	Drill Core	0.09	1.67	1.11	0.43	0.05	0.02	<0.01	<0.01	0.90	24.01	100.44	0.03	7.46	2.71	2.45	<0.02	18.34	1.86
3202290	Rock	1.53	0.13	0.51	0.14	<0.01	0.05	<0.01	<0.01	<0.01	0.84	99.39	0.03	0.04	0.02	0.04	<0.02	<0.08	<0.02
3202291	Drill Core	0.28	0.57	0.16	0.12	<0.01	0.04	<0.01	<0.01	0.03	8.36	100.41	0.02	2.63	0.82	0.69	0.02	7.01	0.41
3202292	Drill Core	0.28	0.59	0.13	0.10	<0.01	0.06	<0.01	<0.01	0.02	8.42	98.94	0.02	2.68	0.74	0.78	<0.02	6.90	0.35
3202293	Drill Core	0.21	0.83	0.08	0.06	<0.01	0.03	<0.01	<0.01	3.22	12.93	100.12	0.01	3.90	2.71	0.79	<0.02	11.37	1.55
3202294	Drill Core	0.18	0.86	0.08	0.06	<0.01	0.03	<0.01	<0.01	<0.01	13.04	99.15	0.02	4.27	0.60	1.06	<0.02	11.73	0.30
3202295	Drill Core	0.18	0.95	0.07	0.07	<0.01	0.02	<0.01	<0.01	0.01	13.82	100.36	0.01	4.48	0.51	1.11	<0.02	12.33	0.17
3202296	Drill Core	0.20	0.85	0.19	0.08	<0.01	0.03	<0.01	<0.01	0.59	14.49	99.94	0.02	4.21	3.48	1.00	<0.02	11.74	2.00
3202297	Drill Core	0.20	0.94	0.07	0.04	<0.01	0.03	<0.01	<0.01	0.21	13.85	99.86	0.02	4.46	0.72	0.94	<0.02	12.88	0.32
3202298	Drill Core	0.18	0.73	0.30	0.08	<0.01	0.02	<0.01	0.02	4.24	16.35	99.94	0.02	3.68	8.85	0.92	<0.02	10.09	5.23
3202299	Drill Core	0.21	0.85	0.26	0.08	<0.01	0.04	<0.01	<0.01	0.53	12.86	99.38	0.02	4.06	1.20	0.94	<0.02	11.43	0.69
3202300	Drill Core	0.14	0.90	0.17	0.09	<0.01	0.10	<0.01	<0.01	11.04	16.26	100.53	0.02	4.32	6.57	1.00	<0.02	12.16	2.76



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MacMillan Pass

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QUALITY CONTROL REPORT

WHI20000535.1

	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
3202274	Drill Core	4.88	3.5	33.3	140.4	1250	2.1	183.7	63.2	7153	24.31	287	0.9	<0.5	111	4.5	47.1	<0.5	81	0.36	0.071
3202295	Drill Core	4.64	1.2	5.9	18.8	180	<0.5	30.6	2.9	7445	17.86	28	<0.5	<0.5	23	0.5	10.8	<0.5	32	0.26	0.030
Pulp Duplicates																					
3202253	Drill Core	3.36	2.9	17.8	60.7	1291	1.0	364.0	75.8	8636	25.65	476	3.8	0.8	215	5.3	29.7	<0.5	92	0.57	0.161
REP 3202253	QC																				
REP 3202254	QC																				
3202260	Drill Core	5.01	3.0	73.7	642.3	37617	10.2	157.7	45.0	3231	28.03	586	0.6	<0.5	75	151.2	148.0	<0.5	51	0.19	0.037
REP 3202260	QC																				
3202265	Drill Core	5.03	4.2	26.7	114.4	1389	1.6	233.0	42.7	6906	20.83	186	1.7	0.7	93	5.0	37.5	<0.5	104	0.35	0.079
REP 3202265	QC																				
3202266	Drill Core	5.96	3.3	66.7	353.9	4342	4.8	318.4	60.8	7064	32.25	550	1.4	0.7	128	13.9	96.1	<0.5	96	0.45	0.113
REP 3202266	QC																				
3202268	Drill Core	4.78	0.9	24.8	96.1	1456	1.4	286.1	50.8	11073	32.74	343	0.8	1.1	225	4.7	33.6	<0.5	91	0.69	0.161
REP 3202268	QC																				
3202269	Drill Core	4.48	8.8	15.3	58.2	1440	0.8	164.5	33.2	8893	22.33	120	1.8	0.9	123	4.8	20.3	<0.5	102	0.56	0.141
REP 3202269	QC																				
3202282	Drill Core	4.47	0.6	44.4	126.3	951	2.4	111.5	43.1	7273	25.18	230	<0.5	<0.5	86	2.4	38.1	<0.5	118	0.24	0.026
REP 3202282	QC		0.6	43.3	124.1	960	2.4	110.8	40.9	7247	25.10	228	<0.5	<0.5	77	2.8	38.3	<0.5	118	0.24	0.027
3202285	Drill Core	4.79	10.7	52.2	100.2	9836	2.6	205.6	37.6	5135	13.76	151	2.0	0.7	137	28.2	46.5	<0.5	94	0.49	0.160
REP 3202285	QC																				
3202287	Drill Core	4.62	19.8	125.0	191.7	66540	5.4	338.5	47.8	2906	12.86	276	4.9	0.9	210	180.1	54.5	<0.5	115	0.67	0.283
REP 3202287	QC																				
3202290	Rock	0.68	1.6	53.2	2.2	68	<0.5	5.2	10.4	402	3.00	<5	0.9	2.8	95	<0.5	<0.5	<0.5	100	1.07	0.068
REP 3202290	QC																				
3202293	Drill Core	6.48	2.3	42.2	66.3	30981	4.6	44.8	5.6	6622	15.89	51	0.9	<0.5	27	114.8	42.9	<0.5	39	0.22	0.019
REP 3202293	QC																				
3202299	Drill Core	4.62	1.0	12.7	53.5	5230	1.5	52.3	9.9	6775	17.64	35	<0.5	<0.5	27	15.8	19.1	<0.5	54	0.26	0.031
REP 3202299	QC																				
Core Reject Duplicates																					



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01	0.01
3202274	Drill Core	0.6	87.2	0.63	72	0.003	0.53	<0.01	0.03	<0.5	1.32	13.4	2.2	6.82	<5	<2	29.59	10.87	35.45	0.49	1.07
3202295	Drill Core	<0.5	18.6	0.47	41	<0.001	0.11	<0.01	0.02	0.6	0.30	4.4	<0.5	0.44	<5	<2	55.14	1.83	27.01	0.38	0.85
Pulp Duplicates																					
3202253	Drill Core	1.0	294.2	0.70	247	0.011	1.44	<0.01	0.01	<0.5	1.10	12.1	0.5	0.60	6	<2	31.86	6.68	37.40	0.80	1.19
REP 3202253	QC																				
REP 3202254	QC																45.60	6.47	16.72	0.41	0.17
3202260	Drill Core	<0.5	62.7	0.27	101	0.003	0.58	<0.01	0.02	<0.5	30.31	7.2	9.6	22.79	<5	<2	21.61	7.98	39.72	0.25	0.53
REP 3202260	QC																				
3202265	Drill Core	0.9	155.3	0.57	60	0.004	1.22	<0.01	0.03	<0.5	1.55	16.7	1.2	3.42	<5	<2	34.88	13.35	30.49	0.47	0.99
REP 3202265	QC																34.46	13.33	30.40	0.47	0.97
3202266	Drill Core	5.6	181.0	0.66	66	0.006	1.06	<0.01	0.02	<0.5	4.14	12.3	6.2	14.21	<5	<2	21.60	5.80	44.62	0.60	1.08
REP 3202266	QC																				
3202268	Drill Core	1.5	208.7	1.00	130	0.004	0.53	<0.01	0.04	<0.5	1.60	15.2	1.2	3.82	<5	<2	16.53	4.97	47.27	0.96	1.68
REP 3202268	QC																				
3202269	Drill Core	1.0	140.0	0.65	60	0.004	0.63	<0.01	0.03	<0.5	1.33	16.0	<0.5	1.15	<5	<2	36.46	8.61	32.13	0.76	1.09
REP 3202269	QC																				
3202282	Drill Core	<0.5	91.6	0.61	57	0.006	1.91	<0.01	0.02	<0.5	1.32	23.8	1.1	7.10	<5	<2	26.27	14.65	36.37	0.32	1.01
REP 3202282	QC	<0.5	90.2	0.61	48	0.006	1.90	<0.01	0.02	<0.5	1.18	22.7	1.1	7.19	<5	<2					
3202285	Drill Core	0.7	118.0	0.43	70	0.006	0.56	<0.01	0.04	0.7	10.59	6.9	0.8	2.88	<5	4	53.48	9.07	19.76	0.68	0.65
REP 3202285	QC																53.43	9.10	19.68	0.68	0.65
3202287	Drill Core	1.0	184.8	0.33	127	0.006	1.60	<0.01	0.04	0.6	71.89	5.9	1.2	7.32	7	4	43.13	12.04	18.16	0.94	0.49
REP 3202287	QC																				
3202290	Rock	6.2	6.4	0.85	194	0.186	1.96	0.27	0.33	<0.5	0.06	3.7	<0.5	<0.05	6	<2	60.53	17.03	6.27	6.23	2.80
REP 3202290	QC																60.91	17.03	6.30	6.31	2.85
3202293	Drill Core	<0.5	19.2	0.49	65	<0.001	0.19	<0.01	0.03	0.6	23.17	6.1	<0.5	2.46	<5	<2	55.47	2.11	23.28	0.32	0.75
REP 3202293	QC																				
3202299	Drill Core	<0.5	42.0	0.45	44	0.001	0.82	<0.01	0.03	<0.5	3.75	8.5	<0.5	1.06	<5	<2	53.21	3.98	26.03	0.38	0.80
REP 3202299	QC																				
Core Reject Duplicates																					



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QUALITY CONTROL REPORT

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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
3202274	Drill Core	0.34	0.89	1.24	0.17	0.03	0.09	<0.01	<0.01	0.13	19.67	100.24	0.03	4.74	6.96	1.14	<0.02	13.16	5.51	4.34
3202295	Drill Core	0.18	0.95	0.07	0.07	<0.01	0.02	<0.01	<0.01	0.01	13.82	100.36	0.01	4.48	0.51	1.11	<0.02	12.33	0.17	1.02
Pulp Duplicates																				
3202253	Drill Core	0.13	1.10	0.99	0.39	0.07	0.07	<0.01	<0.01	0.13	18.17	99.09	0.03	5.50	0.65	1.13	<0.02	16.00	0.35	0.92
REP 3202253	QC																		0.36	
REP 3202254	QC	0.18	0.09	1.28	0.31	0.07	0.08	0.01	0.02	12.52	11.51	98.71	0.03							
3202260	Drill Core	0.25	0.40	0.89	0.09	0.02	0.08	<0.01	0.06	3.88	22.10	98.92	0.03	2.08	23.75	0.38	<0.02	6.19	16.69	21.15
REP 3202260	QC													2.04	23.81					
3202265	Drill Core	0.28	0.87	1.53	0.19	0.05	0.08	<0.01	<0.01	0.14	16.63	100.07	0.05	4.09	3.61	0.85	0.02	11.83	2.19	4.27
REP 3202265	QC	0.29	0.86	1.53	0.18	0.05	0.06	<0.01	<0.01	0.14	16.63	99.51	0.05							
3202266	Drill Core	0.13	0.84	0.89	0.27	0.04	0.04	<0.01	0.03	0.42	22.77	99.30	0.03	4.49	13.96	0.99	<0.02	12.75	9.93	12.06
REP 3202266	QC																<0.02			
3202268	Drill Core	0.30	1.46	1.04	0.38	0.05	0.08	<0.01	<0.01	0.15	24.94	99.89	0.03	7.29	3.94	1.03	<0.02	22.92	3.28	1.98
REP 3202268	QC																	22.23		
3202269	Drill Core	0.21	1.12	1.06	0.35	0.04	0.05	<0.01	<0.01	0.15	17.63	99.76	0.04	5.27	1.25	0.85	0.03	16.06	0.89	1.07
REP 3202269	QC																		0.77	
3202282	Drill Core	0.21	0.92	1.45	0.06	0.02	0.06	<0.01	0.01	0.10	18.64	100.25	0.04	3.94	7.34	1.62	<0.02	8.49	6.18	3.49
REP 3202282	QC																			
3202285	Drill Core	0.33	0.65	1.13	0.38	0.04	0.08	<0.01	<0.01	0.95	12.27	99.78	0.06	3.53	3.18	1.71	0.04	6.55	2.34	2.50
REP 3202285	QC	0.33	0.64	1.15	0.38	0.04	0.06	<0.01	<0.01	0.95	12.27	99.69	0.06							
3202287	Drill Core	0.47	0.37	1.39	0.67	0.06	0.11	<0.01	0.01	6.75	11.89	98.30	0.07	2.10	7.89	0.98	<0.02	4.04	6.22	5.02
REP 3202287	QC																		6.63	
3202290	Rock	1.53	0.13	0.51	0.14	<0.01	0.05	<0.01	<0.01	<0.01	0.84	99.39	0.03	0.04	0.02	0.04	<0.02	<0.08	<0.02	<0.15
REP 3202290	QC	1.54	0.13	0.52	0.14	<0.01	0.05	<0.01	<0.01	<0.01	0.84	99.97	0.03							
3202293	Drill Core	0.21	0.83	0.08	0.06	<0.01	0.03	<0.01	<0.01	3.22	12.93	100.12	0.01	3.90	2.71	0.79	<0.02	11.37	1.55	3.48
REP 3202293	QC													3.85	2.71					
3202299	Drill Core	0.21	0.85	0.26	0.08	<0.01	0.04	<0.01	<0.01	0.53	12.86	99.38	0.02	4.06	1.20	0.94	<0.02	11.43	0.69	1.55
REP 3202299	QC																<0.02			
Core Reject Duplicates																				



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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
3202254	Drill Core	7.30	1.4	199.2	229.4	120097	9.7	455.8	88.3	647	11.85	658	1.6	<0.5	162	367.4	82.2	<0.5	34	0.29	0.126
DUP 3202254	QC		1.4	202.8	232.5	121637	9.8	448.0	86.8	659	11.86	649	1.6	<0.5	164	382.2	82.3	<0.5	35	0.29	0.121
3202288	Drill Core	3.71	21.8	93.0	140.9	18647	6.1	279.5	50.7	9096	23.25	218	17.6	1.3	184	45.9	61.0	<0.5	128	0.70	0.209
DUP 3202288	QC		20.9	97.2	140.9	19561	5.6	277.5	50.1	8984	22.95	212	17.8	1.3	185	48.2	59.5	<0.5	130	0.71	0.219
Reference Materials																					
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD GGC-09	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 GS910-4	Standard																				
STD GS910-4	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS135	Standard		8.0	296.5	17042.1	26846	55.0	40.5	31.7	3957	8.91	924	8.9	9.8	26	65.1	37.8	4.7	33	1.84	0.091
STD OREAS605	Standard		4.3	47315.1	857.2	2073	996.2	1494.4	99.8	77	3.65	1667	1.0	2.6	52	14.2	293.1	20.4	<10	0.18	0.009
STD OREAS605	Standard		4.5	48803.5	870.1	2127	992.2	1566.2	99.8	78	3.62	1728	0.8	2.4	50	13.4	277.1	18.4	<10	0.17	0.010
STD OREAS72B	Standard																				
STD OREAS72B	Standard																				
STD OREAS927-AR	Standard		1.1	10566.8	224.3	715	4.2	29.1	30.9	1040	7.99	14	1.8	13.3	13	1.0	1.4	68.2	33	0.32	0.053
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	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
3202254	Drill Core	0.5	184.4	0.10	115	0.004	0.76	<0.01	0.02	<0.5	126.41	2.4	3.3	15.58	8	2	46.58	6.36	16.70	0.39	0.17
DUP 3202254	QC	0.8	183.0	0.10	124	0.005	0.76	<0.01	0.02	<0.5	126.99	2.4	3.4	15.74	8	3	46.03	6.50	16.86	0.40	0.19
3202288	Drill Core	0.9	224.2	0.55	73	0.004	1.04	<0.01	0.03	0.5	18.80	13.0	0.7	4.23	<5	4	28.26	10.19	34.89	1.00	0.99
DUP 3202288	QC	0.9	222.5	0.55	65	0.004	1.06	<0.01	0.03	<0.5	18.95	12.9	0.6	4.36	<5	4	28.07	10.10	34.36	1.00	0.97
Reference Materials																					
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD GGC-09	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 GS910-4	Standard																				
STD GS910-4	Standard																				
STD OREAS133B(D)	Standard																33.98	6.86	11.54	5.29	3.77
STD OREAS133B(D)	Standard																33.41	6.80	11.52	5.27	3.82
STD OREAS135	Standard	35.6	26.4	0.83	395	0.030	1.14	0.02	0.53	2.7	1.07	3.6	6.2	7.17	<5	<2					
STD OREAS605	Standard	8.0	26.6	0.03	182	0.012	0.78	0.03	0.15	6.7	1.38	1.2	15.4	7.87	6	74					
STD OREAS605	Standard	7.2	31.3	0.03	168	0.011	0.74	0.03	0.16	6.1	1.52	1.0	14.6	7.63	6	68					
STD OREAS72B	Standard																51.16	8.92	9.88	3.98	15.98
STD OREAS72B	Standard																51.01	8.95	9.86	3.99	16.07
STD OREAS927-AR	Standard	30.6	41.7	1.88	51	0.103	3.17	<0.01	0.27	5.5	0.16	4.4	<0.5	1.77	9	15					
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	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
3202254	Drill Core	0.18	0.09	1.28	0.30	0.08	0.07	0.01	0.02	12.20	11.39	98.98	0.02	0.48	15.82	0.16	<0.02	1.14	11.24	13.72
DUP 3202254	QC	0.18	0.08	1.31	0.30	0.08	0.07	0.01	0.02	12.73	11.39	99.45	0.02	0.47	15.94	0.15	<0.02	1.14	12.11	11.47
3202288	Drill Core	0.26	1.17	1.51	0.49	0.06	0.05	<0.01	0.01	1.86	19.07	100.35	0.06	5.07	4.84	1.84	<0.02	11.78	3.76	3.23
DUP 3202288	QC	0.25	1.12	1.52	0.52	0.06	0.05	<0.01	<0.01	1.95	18.98	99.56	0.06	5.05	4.88	1.67	<0.02	12.35	3.49	4.15
Reference Materials																				
STD COO2	Standard																		3.68	
STD COO2	Standard																		3.70	
STD COO2	Standard																		3.58	
STD COO2	Standard																		3.61	
STD GGC-09	Standard																2.45			
STD GGC-09	Standard																2.38			
STD GGC-10	Standard																5.31			
STD GGC-10	Standard																5.08			
STD GS311-1	Standard													0.95	2.38					
STD GS311-1	Standard													0.94	2.34					
STD GS314-1	Standard													1.28	28.55					
STD GS910-4	Standard													2.61	8.44					
STD GS910-4	Standard													2.58	8.48					
STD OREAS133B(D)	Standard	3.43	0.15	0.20	0.10	<0.01	0.09	0.03	5.07	11.38	13.03	98.29	0.01							
STD OREAS133B(D)	Standard	3.46	0.16	0.21	0.09	<0.01	0.08	0.02	5.06	11.33	13.03	97.62	<0.01							
STD OREAS135	Standard																			
STD OREAS605	Standard																			
STD OREAS605	Standard																			
STD OREAS72B	Standard	1.34	0.14	0.34	0.06	0.14	0.03	0.02	<0.01	<0.01	5.06	98.35	0.01							
STD OREAS72B	Standard	1.33	0.13	0.33	0.06	0.14	0.03	0.02	<0.01	<0.01	5.13	98.39	0.02							
STD OREAS927-AR	Standard																			
STD RTS-3A	Standard																		6.70	
STD RTS-3A	Standard																		6.78	
STD RTS-3A	Standard																		6.91	



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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 SY-4(D)	Standard																				
STD SY-4(D)	Standard																				
STD GS314-1 Expected																					
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD SY-4(D) Expected																					
STD OREAS72B Expected																					
STD OREAS133B(D) Expected																					
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 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 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 COO2 Expected																					
STD GGC-10 Expected																					
STD GGC-09 Expected																					
STD RTS-3A Expected																					
BLK	Blank																				
BLK	Blank																				
SI BLK	Blank																				
SI BLK	Blank																				
BLK	Blank		<0.5	<0.5	<0.5	11	<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	<0.001
BLK	Blank																				
BLK	Blank																				
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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
STD SY-4(D)	Standard																50.07	20.70	6.18	7.95	0.53
STD SY-4(D)	Standard																49.73	20.80	6.19	8.01	0.54
STD GS314-1 Expected																					
STD GS311-1 Expected																					
STD GS910-4 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 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 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 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 COO2 Expected																					
STD GGC-10 Expected																					
STD GGC-09 Expected																					
STD RTS-3A Expected																					
BLK	Blank																				
BLK	Blank																				
SI BLK	Blank																99.04	0.32	0.03	0.01	0.03
SI BLK	Blank																98.85	0.30	0.03	0.02	0.01
BLK	Blank	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.05	<5	<2					
BLK	Blank	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.05	<5	<2					
BLK	Blank																				
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This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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		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
Prep Wash																					
ROCK-WHI	Prep Blank		1.4	5.3	2.0	30	<0.5	2.3	3.4	382	1.72	23	0.5	2.5	24	<0.5	<0.5	<0.5	22	0.58	0.036
ROCK-WHI	Prep Blank		3.9	2.2	1.2	36	<0.5	1.0	3.4	395	1.83	<5	0.5	2.6	24	<0.5	<0.5	<0.5	22	0.59	0.041



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		AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725	
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01	0.01
Prep Wash																					
ROCK-WHI	Prep Blank	7.9	3.7	0.38	65	0.090	0.82	0.07	0.10	<0.5	<0.05	3.2	<0.5	<0.05	<5	<2	71.79	14.01	2.99	2.25	0.79
ROCK-WHI	Prep Blank	7.9	2.7	0.38	59	0.099	0.81	0.08	0.09	<0.5	<0.05	3.1	<0.5	<0.05	<5	<2	71.06	13.94	3.07	2.24	0.79



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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
Prep Wash																				
ROCK-WHI	Prep Blank	1.98	0.08	0.32	0.08	<0.01	0.09	<0.01	<0.01	<0.01	0.70	99.53	<0.01	0.07	0.02	<0.02	<0.02	0.25	<0.02	<0.15
ROCK-WHI	Prep Blank	1.95	0.08	0.31	0.07	<0.01	0.08	<0.01	<0.01	<0.01	0.67	98.80	<0.01	0.07	<0.02	<0.02	<0.02	0.22	<0.02	<0.15