



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 24, 2018
Report Date: November 25, 2018
Page: 1 of 3

CERTIFICATE OF ANALYSIS

WHI18000984.1

CLIENT JOB INFORMATION

Project: MacMillan Pass
Shipment ID: FWZ18-BV-033
P.O. Number
Number of Samples: 50

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT Store After 60 days Invoice for Storage

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			WHI
FA330	49	Fire assay fusion Au Pt Pd by ICP-ES	30	Completed	VAN
EN002	50	Environmental disposal charge-Fire assay lead waste			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
TC006	50	15% HClO4 leach, CO2 analysis by Leco	0.2	Completed	VAN
TC003	50	Analysis by Leco	0.1	Completed	VAN
SHP01	50	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS

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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	Method Analyte Unit MDL	WGHT	FA330	FA330	FA330	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi
		kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	2	3	2	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
3209274	Drill Core	8.50	5	<3	6	5.6	124.9	107.9	10	1.4	70.6	12.2	2208	7.05	31	2.4	6.2	38	<0.5	17.0	<0.5
3209275	Drill Core	6.62	8	3	11	6.6	132.8	121.4	<5	1.5	74.6	15.7	735	2.92	18	1.7	7.7	35	<0.5	7.6	<0.5
3209276	Drill Core	2.61	7	<3	4	1.3	662.8	46.6	34	3.8	51.0	20.0	7610	22.06	65	<0.5	1.3	19	<0.5	10.2	<0.5
3209277	Drill Core	5.42	8	<3	4	1.0	872.4	148.0	38	5.2	65.8	34.6	8807	27.52	226	<0.5	1.9	16	<0.5	16.8	<0.5
3209278	Drill Core	4.45	6	<3	3	1.7	216.6	91.4	13	1.5	29.3	10.9	3625	11.20	60	<0.5	0.9	7	<0.5	9.4	<0.5
3209279	Drill Core	5.42	12	<3	5	1.8	318.6	131.7	15	1.9	38.1	13.9	4248	14.57	95	1.0	0.6	<5	<0.5	14.6	<0.5
3209280	Drill Core	4.06	8	3	4	1.5	327.2	115.0	18	2.2	37.2	12.1	5067	17.35	65	<0.5	1.7	9	<0.5	7.5	<0.5
3209281	Drill Core	3.57	7	<3	3	1.2	186.7	77.4	19	1.8	42.4	14.0	4206	14.90	42	<0.5	0.8	7	<0.5	12.9	<0.5
3209282	Drill Core	3.30	5	5	6	3.7	269.6	40.7	32	1.5	40.2	15.5	4982	16.85	12	0.8	3.4	39	<0.5	7.2	<0.5
3209283	Rock Pulp	0.05	I.S.	I.S.	I.S.	2.9	235.1	18535.4	31109	36.2	27.0	20.9	1956	5.54	91	1.8	7.9	23	102.5	50.7	<0.5
3209284	Drill Core	5.91	8	<3	9	7.5	59.5	14.6	211	<0.5	78.2	15.1	3555	11.73	9	3.5	3.4	117	1.0	10.7	<0.5
3209285	Drill Core	6.92	8	<3	10	10.5	71.6	19.1	1799	<0.5	77.3	15.9	3289	10.80	20	5.0	4.1	100	10.5	12.4	<0.5
3209286	Drill Core	6.53	7	5	9	16.0	74.1	13.3	1037	<0.5	103.6	18.0	715	4.00	8	4.7	4.7	80	7.1	8.8	<0.5
3209287	Drill Core	7.48	9	<3	13	51.2	38.8	60.5	3932	0.7	108.1	13.7	2114	4.44	19	14.0	2.5	349	25.9	5.1	<0.5
3209288	Drill Core	7.05	11	5	17	104.4	196.0	114.9	2085	2.1	172.1	25.2	925	3.64	89	26.3	3.4	224	13.2	17.0	<0.5
3209302	Drill Core	6.67	10	<3	8	99.7	72.7	86.7	11	1.4	191.9	21.1	84	4.67	87	16.2	5.0	16	<0.5	27.1	<0.5
3209303	Drill Core	7.11	9	9	21	47.6	247.5	69.4	1946	1.8	160.0	17.6	671	4.95	74	15.2	3.6	150	14.9	16.4	<0.5
3209304	Drill Core	6.65	8	17	39	15.9	1113.9	52.1	58	3.7	261.9	49.9	295	2.47	111	31.7	4.7	259	0.6	12.7	<0.5
3209305	Drill Core	7.74	8	<3	11	50.0	180.8	28.7	1288	1.1	139.4	32.0	1192	4.78	94	20.0	3.4	197	12.7	13.5	<0.5
3209306	Drill Core	6.46	8	<3	6	42.1	37.7	27.6	171	0.6	85.0	16.3	1177	3.46	51	8.8	3.1	276	1.1	10.7	<0.5
3209307	Drill Core	6.67	8	<3	8	34.5	19.5	25.6	25	<0.5	70.9	13.8	1455	4.31	47	7.6	3.0	310	<0.5	10.2	<0.5
3209308	Drill Core	5.49	9	3	8	60.9	29.6	30.0	15	0.7	107.8	20.8	1147	3.62	59	12.0	3.2	265	<0.5	13.4	<0.5
3209309	Drill Core	7.49	10	<3	4	59.1	58.3	27.1	51	0.7	125.0	27.9	1130	3.80	83	12.3	3.2	263	<0.5	11.8	<0.5
3209310	Drill Core	7.99	3	<3	5	0.9	160.2	9.1	181	0.6	94.0	48.3	60	1.53	61	2.1	0.6	19	1.0	4.8	<0.5
3209311	Drill Core	6.91	3	<3	<2	0.6	145.7	14.9	75	0.6	125.3	56.3	9	2.00	72	4.3	1.0	31	<0.5	6.1	<0.5
3209312	Drill Core	6.73	9	<3	8	92.0	114.4	46.4	3168	1.5	203.2	39.0	77	2.79	108	19.9	4.5	19	15.8	18.9	<0.5
3209313	Drill Core	7.83	10	<3	10	65.3	52.0	52.7	1883	1.5	131.8	26.6	530	2.52	63	15.1	4.6	228	8.4	15.3	<0.5
3209314	Drill Core	2.07	8	3	12	54.4	48.5	45.2	11893	1.6	145.3	30.9	310	2.92	90	10.7	4.9	103	55.4	17.0	<0.5
3209315	Drill Core	5.31	9	5	12	89.1	163.6	42.0	16547	1.8	141.7	28.8	66	2.15	91	16.1	3.6	12	71.6	18.4	<0.5
3209316	Drill Core	5.23	10	6	14	115.5	158.9	45.7	441	1.8	161.0	36.2	79	2.22	105	22.1	4.4	20	1.9	19.0	<0.5



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Method Analyte Unit MDL		AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725
		V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	SiO2	Al2O3
		ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%
		10	0.01	0.001	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
3209274	Drill Core	46	0.24	0.076	20.7	10.8	0.28	240	0.002	0.48	<0.01	0.18	<0.5	0.16	3.5	<0.5	1.75	<5	4	66.50	10.30
3209275	Drill Core	29	0.23	0.081	25.6	8.1	0.10	329	0.002	0.47	<0.01	0.24	<0.5	0.12	1.5	<0.5	1.27	<5	4	70.30	12.90
3209276	Drill Core	37	0.26	0.025	4.0	6.4	0.97	81	<0.001	0.22	<0.01	0.06	<0.5	0.20	3.6	<0.5	4.21	<5	6	44.10	2.46
3209277	Drill Core	25	0.32	0.023	4.8	6.6	1.34	98	<0.001	0.29	<0.01	0.07	<0.5	0.17	3.2	<0.5	5.16	<5	5	31.60	2.64
3209278	Drill Core	22	0.12	0.020	4.7	8.4	0.57	97	<0.001	0.15	<0.01	0.06	<0.5	0.17	1.5	<0.5	1.64	<5	3	68.80	2.12
3209279	Drill Core	28	0.24	0.005	2.6	7.9	0.65	64	<0.001	0.13	<0.01	0.05	<0.5	0.23	1.0	<0.5	3.76	<5	<2	60.50	1.52
3209280	Drill Core	34	0.16	0.020	3.7	8.5	0.73	138	0.001	0.19	<0.01	0.10	<0.5	0.22	2.2	<0.5	3.45	<5	3	51.40	3.09
3209281	Drill Core	25	0.17	0.018	1.8	8.2	0.69	88	<0.001	0.18	<0.01	0.04	<0.5	0.17	0.6	<0.5	3.51	<5	<2	61.90	1.47
3209282	Drill Core	55	0.32	0.030	12.8	14.8	0.64	497	0.004	0.73	<0.01	0.36	4.3	0.06	3.6	0.6	2.99	<5	3	51.80	5.22
3209283	Rock Pulp	12	5.32	0.056	27.9	14.5	2.85	158	0.018	1.08	0.01	0.79	0.7	1.12	3.0	30.5	5.08	<5	<2	43.80	8.69
3209284	Drill Core	53	1.38	0.516	21.9	20.3	0.69	306	0.004	0.49	<0.01	0.23	<0.5	0.25	2.8	<0.5	2.42	<5	3	47.30	8.26
3209285	Drill Core	86	1.15	0.436	17.8	20.0	0.61	293	0.004	0.46	<0.01	0.21	<0.5	1.20	4.0	<0.5	3.01	<5	5	52.80	7.52
3209286	Drill Core	63	1.04	0.305	20.3	15.4	0.23	307	0.003	0.44	<0.01	0.22	<0.5	0.73	2.0	<0.5	2.32	<5	8	65.50	9.98
3209287	Drill Core	291	8.84	0.110	5.5	13.8	3.38	205	0.002	0.26	<0.01	0.13	<0.5	3.18	4.2	<0.5	0.93	<5	6	43.20	4.42
3209288	Drill Core	432	4.53	0.334	6.4	37.4	1.38	270	0.004	0.45	<0.01	0.18	<0.5	1.81	2.9	1.2	1.82	<5	23	59.20	5.40
3209302	Drill Core	181	0.21	0.097	7.8	14.9	0.02	342	0.003	0.45	<0.01	0.21	<0.5	0.71	<0.5	1.4	5.42	<5	12	72.00	7.67
3209303	Drill Core	228	3.18	0.386	5.5	47.0	0.87	306	0.004	0.44	<0.01	0.19	<0.5	2.07	2.0	0.7	4.37	<5	13	64.10	4.81
3209304	Drill Core	349	4.11	1.471	15.4	169.4	0.52	442	0.010	0.73	<0.01	0.31	<0.5	0.41	2.4	<0.5	2.07	<5	26	60.20	5.38
3209305	Drill Core	203	6.70	0.153	3.9	25.7	2.72	276	0.003	0.43	<0.01	0.17	<0.5	1.30	4.6	1.0	2.92	<5	13	42.30	10.30
3209306	Drill Core	167	8.62	0.047	5.5	9.9	4.05	250	0.002	0.30	<0.01	0.15	<0.5	0.49	2.4	0.9	1.29	<5	6	45.10	5.23
3209307	Drill Core	165	12.07	0.035	5.5	9.2	5.80	211	0.001	0.27	0.01	0.12	<0.5	0.32	2.1	0.8	1.46	<5	6	28.80	4.92
3209308	Drill Core	201	9.57	0.060	6.9	11.4	4.57	251	0.002	0.33	<0.01	0.15	<0.5	0.31	2.3	0.9	1.57	<5	6	37.70	5.78
3209309	Drill Core	196	9.14	0.081	5.7	13.8	4.21	241	0.002	0.33	<0.01	0.15	<0.5	0.33	3.2	1.0	1.80	<5	7	39.20	6.80
3209310	Drill Core	23	0.40	0.070	2.0	19.4	0.14	467	0.003	0.62	<0.01	0.31	<0.5	0.14	1.3	<0.5	1.63	<5	<2	56.70	24.00
3209311	Drill Core	35	0.34	0.164	3.1	21.5	0.03	508	0.003	0.70	<0.01	0.36	<0.5	0.15	0.9	<0.5	2.35	<5	<2	56.10	24.20
3209312	Drill Core	221	0.35	0.103	6.8	15.0	0.13	226	0.003	0.45	<0.01	0.16	<0.5	2.47	0.6	1.3	3.28	<5	15	73.50	7.29
3209313	Drill Core	219	7.03	0.073	6.0	11.1	3.62	292	0.002	0.39	<0.01	0.20	<0.5	1.57	4.7	1.2	1.87	<5	11	43.70	8.99
3209314	Drill Core	178	3.57	0.095	5.0	10.8	1.82	276	0.002	0.41	<0.01	0.18	<0.5	7.58	2.1	1.2	3.38	<5	17	58.50	8.34
3209315	Drill Core	217	0.22	0.093	6.6	12.3	0.03	276	0.003	0.38	<0.01	0.18	<0.5	11.00	0.5	1.5	3.04	<5	17	76.60	6.21
3209316	Drill Core	326	0.35	0.146	8.3	16.3	0.04	312	0.004	0.45	<0.01	0.23	<0.5	1.10	<0.5	1.8	2.31	<5	14	75.10	7.31



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Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC006	TC000	TC000
Analyte	Fe2O3	CaO	MgO	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	CO2	TOT/C	TOT/S
Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
MDL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.02	0.02	0.02
3209274	Drill Core	10.60	0.35	0.63	2.48	0.29	0.58	0.17	0.01	0.28	0.01	0.01	<0.01	7.31	99.62	3.11	1.69
3209275	Drill Core	4.88	0.30	0.41	3.25	0.11	0.73	0.19	0.01	0.38	0.01	<0.01	<0.01	5.44	99.06	1.09	1.16
3209276	Drill Core	32.40	0.36	1.62	0.49	0.95	0.12	0.05	<0.01	0.04	0.06	<0.01	<0.01	17.43	100.11	14.07	4.14
3209277	Drill Core	39.40	0.41	2.17	0.52	1.07	0.16	0.05	<0.01	0.04	0.07	0.01	<0.01	21.66	99.83	17.26	5.07
3209278	Drill Core	16.20	0.18	0.98	0.52	0.45	0.10	0.04	<0.01	0.05	0.02	0.01	<0.01	10.43	99.92	6.66	1.64
3209279	Drill Core	21.00	0.36	1.09	0.35	0.53	0.07	0.02	<0.01	0.03	0.02	<0.01	<0.01	14.03	99.55	8.64	3.68
3209280	Drill Core	26.80	0.25	1.30	0.73	0.67	0.17	0.06	<0.01	0.08	0.03	0.01	<0.01	15.77	100.41	10.66	3.82
3209281	Drill Core	21.50	0.22	1.15	0.29	0.53	0.07	0.05	<0.01	0.02	0.01	<0.01	<0.01	12.90	100.13	8.23	3.44
3209282	Drill Core	24.70	0.45	1.34	1.47	0.63	0.27	0.07	<0.01	0.13	0.02	<0.01	<0.01	13.69	99.84	9.91	2.96
3209283	Rock Pulp	8.31	7.46	5.28	4.12	0.25	0.28	0.12	<0.01	0.08	0.02	1.85	3.12	15.33	99.79	10.53	5.01
3209284	Drill Core	17.50	2.01	1.46	2.10	0.45	0.48	1.25	0.02	0.27	<0.01	<0.01	0.02	18.12	99.30	5.42	2.57
3209285	Drill Core	16.40	1.68	1.32	1.89	0.43	0.49	0.99	0.02	0.25	<0.01	<0.01	0.19	15.81	99.93	5.19	3.02
3209286	Drill Core	6.72	1.54	0.74	2.51	0.11	0.67	0.69	0.02	0.35	<0.01	<0.01	0.11	10.75	99.82	1.72	2.38
3209287	Drill Core	7.19	13.20	6.06	1.16	0.28	0.22	0.26	<0.01	0.15	<0.01	<0.01	0.42	22.07	98.78	18.47	0.96
3209288	Drill Core	5.81	6.18	2.65	1.41	0.14	0.27	0.74	0.02	0.18	0.02	0.01	0.23	16.48	98.85	7.05	1.89
3209302	Drill Core	7.11	0.30	0.32	1.99	0.03	0.37	0.22	0.02	0.27	<0.01	0.01	<0.01	9.61	100.01	0.02	5.34
3209303	Drill Core	7.17	4.39	1.59	1.24	0.10	0.23	0.89	0.03	0.16	0.02	<0.01	0.19	13.28	98.29	4.36	4.22
3209304	Drill Core	3.74	5.81	1.07	1.39	0.06	0.26	3.14	0.08	0.14	0.10	<0.01	<0.01	18.37	99.84	2.11	15.12
3209305	Drill Core	7.29	9.54	4.92	2.51	0.18	0.73	0.35	0.04	0.36	0.01	<0.01	0.13	19.17	97.97	12.19	8.63
3209306	Drill Core	5.31	12.60	7.03	1.32	0.17	0.25	0.10	<0.01	0.18	<0.01	<0.01	0.02	21.72	99.08	13.08	1.34
3209307	Drill Core	6.61	17.90	10.00	1.23	0.20	0.24	0.08	0.01	0.17	<0.01	<0.01	<0.01	28.95	99.16	22.62	1.41
3209308	Drill Core	5.66	14.20	8.09	1.47	0.16	0.28	0.13	0.01	0.20	<0.01	<0.01	<0.01	25.30	99.05	16.03	1.65
3209309	Drill Core	5.99	13.20	7.45	1.68	0.17	0.42	0.17	0.02	0.23	<0.01	<0.01	<0.01	23.91	99.31	17.59	1.75
3209310	Drill Core	2.59	0.55	0.87	5.83	0.03	2.07	0.15	0.07	0.74	0.01	<0.01	0.02	5.71	99.57	0.40	1.47
3209311	Drill Core	3.21	0.50	0.68	5.90	0.02	2.11	0.35	0.07	0.73	<0.01	<0.01	<0.01	5.54	99.66	0.04	2.12
3209312	Drill Core	4.41	0.52	0.52	1.81	0.03	0.36	0.23	0.01	0.21	<0.01	<0.01	0.30	10.31	99.69	0.26	3.10
3209313	Drill Core	3.93	9.99	6.52	2.28	0.09	0.41	0.16	0.01	0.29	<0.01	<0.01	0.19	21.50	98.19	13.32	1.91
3209314	Drill Core	4.60	5.15	3.44	2.12	0.06	0.38	0.21	0.01	0.26	<0.01	<0.01	1.24	12.08	96.77	6.64	3.40
3209315	Drill Core	3.31	0.30	0.29	1.59	0.03	0.29	0.21	0.01	0.19	0.01	<0.01	1.61	8.12	99.22	<0.02	2.87
3209316	Drill Core	3.44	0.47	0.36	1.90	0.03	0.36	0.33	0.02	0.22	0.01	<0.01	0.04	10.09	99.77	0.05	2.23



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Project: MacMillan Pass
Report Date: November 25, 2018

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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL		WGHT	FA330	FA330	FA330	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi
		kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	2	3	2	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
3209317	Drill Core	6.26	9	8	13	142.7	636.4	63.4	2558	3.4	179.6	45.7	68	2.63	117	27.2	5.5	20	11.7	21.1	<0.5
3209318	Drill Core	5.96	6	<3	11	58.2	116.5	35.8	10740	1.1	85.5	19.3	300	2.00	50	10.4	1.8	85	59.5	9.3	<0.5
3209319	Drill Core	6.70	9	10	13	121.0	69.1	60.0	1228	1.8	274.0	41.3	256	3.12	134	20.3	3.9	90	7.2	20.5	<0.5
3209320	Drill Core	5.83	7	8	13	118.0	76.3	121.9	1247	1.5	204.9	24.4	366	3.24	80	20.9	3.1	125	7.5	16.3	<0.5
3209321	Drill Core	6.84	8	<3	8	73.4	94.2	77.3	1645	1.2	179.7	14.1	198	4.99	76	10.8	2.1	48	12.1	15.4	<0.5
3209322	Drill Core	5.19	7	<3	9	114.5	99.1	74.0	73	1.4	237.7	15.7	316	3.99	79	19.8	4.1	106	<0.5	17.9	<0.5
3209323	Drill Core	6.74	10	6	12	92.4	538.3	78.3	124	2.9	255.7	28.0	419	4.53	107	15.3	5.2	135	0.9	19.3	<0.5
3209324	Drill Core	7.03	13	6	12	163.2	134.6	102.4	15	1.7	383.7	10.9	70	3.66	135	20.9	4.2	16	<0.5	38.2	<0.5
3209325	Drill Core	8.46	17	13	10	111.1	96.0	103.1	18	1.4	329.9	16.6	127	3.40	118	34.3	4.1	15	<0.5	34.7	<0.5
3209326	Drill Core	8.56	22	<3	17	256.3	126.6	478.5	14	2.9	605.6	24.6	100	3.93	157	55.5	6.0	19	<0.5	45.9	<0.5
3209327	Drill Core	6.79	11	4	5	185.1	61.4	89.4	34	0.9	375.5	8.1	70	2.20	119	42.3	3.2	15	0.6	20.9	<0.5
3209328	Drill Core	6.52	6	<3	<2	5.7	32.1	4548.4	950	12.7	11.3	<0.5	251	0.37	<5	10.9	1.8	26	4.0	72.7	49.9
3209329	Rock	0.53	2	3	<2	0.9	8.0	6.5	51	<0.5	2.2	5.8	651	2.15	<5	<0.5	1.9	33	<0.5	<0.5	<0.5
3209330	Drill Core	5.27	<2	3	<2	<0.5	5.4	53.9	76	<0.5	0.6	<0.5	269	0.31	11	9.9	1.8	33	<0.5	1.6	1.6
3209331	Drill Core	5.96	3	<3	<2	<0.5	12.9	1551.9	66	3.0	0.5	<0.5	260	0.57	5	11.0	1.8	30	<0.5	7.0	23.8
3209332	Drill Core	5.92	2	<3	<2	<0.5	3.8	61.7	85	<0.5	<0.5	<0.5	253	0.31	<5	10.3	1.7	22	<0.5	1.0	1.8
3209333	Drill Core	5.03	<2	<3	<2	<0.5	3.1	44.0	52	<0.5	<0.5	<0.5	243	0.33	14	10.5	1.8	21	<0.5	0.6	0.5
3209334	Drill Core	5.53	<2	<3	<2	<0.5	9.7	45.8	73	<0.5	<0.5	<0.5	251	0.28	<5	9.2	1.8	20	<0.5	0.8	2.6
3209335	Drill Core	7.03	<2	<3	<2	<0.5	3.0	52.5	78	<0.5	<0.5	<0.5	174	0.26	<5	10.6	1.8	24	<0.5	0.7	1.5
3209336	Drill Core	4.91	12	4	6	94.1	48.6	62.1	14	1.0	245.2	9.3	236	2.65	97	17.8	5.4	82	<0.5	18.4	<0.5



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	Method Analyte Unit MDL	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725
		V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	SiO2	Al2O3
		ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%
		10	0.01	0.001	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
3209317	Drill Core	358	0.35	0.160	8.3	20.7	0.04	308	0.004	0.47	<0.01	0.22	<0.5	2.13	0.6	1.9	3.02	<5	21	70.20	8.43
3209318	Drill Core	258	2.53	0.090	4.8	10.9	1.22	212	0.003	0.29	<0.01	0.13	<0.5	7.66	1.4	0.9	2.04	<5	12	73.70	3.66
3209319	Drill Core	337	2.84	0.104	9.1	16.0	1.44	286	0.003	0.41	<0.01	0.20	<0.5	1.54	1.0	1.8	3.27	<5	21	59.80	8.12
3209320	Drill Core	326	3.98	0.092	5.2	16.7	1.96	243	0.003	0.30	<0.01	0.14	<0.5	1.41	2.1	1.6	3.16	<5	17	56.80	6.07
3209321	Drill Core	217	1.31	0.083	4.0	15.2	0.59	164	0.003	0.22	<0.01	0.11	<0.5	1.67	1.3	1.2	5.55	<5	15	73.40	3.44
3209322	Drill Core	316	3.26	0.094	5.5	18.3	1.65	216	0.003	0.31	<0.01	0.15	<0.5	0.68	2.7	1.7	4.11	<5	17	58.30	6.41
3209323	Drill Core	231	4.32	0.105	5.1	15.7	2.19	216	0.003	0.31	<0.01	0.15	<0.5	0.64	3.4	1.7	4.65	<5	16	51.60	7.95
3209324	Drill Core	147	0.28	0.150	5.5	13.0	0.02	201	0.003	0.37	<0.01	0.19	<0.5	0.54	1.4	2.5	4.29	<5	37	69.20	8.63
3209325	Drill Core	56	0.27	0.128	5.6	11.7	0.02	151	0.003	0.25	<0.01	0.14	<0.5	0.46	1.2	3.0	3.91	<5	37	74.30	7.72
3209326	Drill Core	99	0.36	0.166	9.0	16.9	0.03	197	0.005	0.37	<0.01	0.20	<0.5	0.73	1.3	7.0	4.71	<5	84	59.70	12.60
3209327	Drill Core	169	0.28	0.127	7.7	14.2	0.02	132	0.004	0.26	<0.01	0.13	<0.5	0.41	0.9	2.7	2.22	<5	24	77.30	5.43
3209328	Drill Core	17	1.14	0.007	3.8	1.2	0.12	86	<0.001	0.61	0.03	0.38	<0.5	0.95	0.9	0.6	0.27	<5	72	70.60	14.80
3209329	Rock	38	0.77	0.045	5.7	3.4	0.59	57	0.103	1.18	0.10	0.08	<0.5	<0.05	3.9	<0.5	<0.05	<5	<2	69.10	14.20
3209330	Drill Core	<10	1.14	0.008	3.4	1.2	0.11	110	<0.001	0.50	0.04	0.36	<0.5	0.16	1.0	<0.5	0.12	<5	<2	71.20	15.00
3209331	Drill Core	<10	1.11	0.009	3.7	1.2	0.04	118	<0.001	0.41	0.05	0.32	<0.5	<0.05	1.0	0.6	0.42	<5	24	71.20	15.00
3209332	Drill Core	<10	1.08	0.007	3.3	1.3	0.02	42	<0.001	0.34	0.05	0.40	<0.5	<0.05	0.6	<0.5	0.06	<5	<2	71.60	14.90
3209333	Drill Core	<10	1.05	0.006	3.8	1.3	0.03	14	<0.001	0.36	0.05	0.37	<0.5	<0.05	0.8	<0.5	0.07	<5	<2	71.20	15.40
3209334	Drill Core	<10	1.04	0.008	3.5	1.1	0.08	22	<0.001	0.45	0.04	0.35	<0.5	<0.05	0.8	<0.5	<0.05	<5	<2	72.10	14.80
3209335	Drill Core	<10	0.87	0.007	3.5	1.0	0.17	27	<0.001	0.66	0.04	0.37	<0.5	<0.05	0.9	<0.5	0.05	<5	<2	72.40	15.40
3209336	Drill Core	95	2.35	0.066	4.3	8.0	1.18	132	0.002	0.34	<0.01	0.19	<0.5	0.58	1.8	1.0	2.73	<5	14	62.10	10.40



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Project: MacMillan Pass
Report Date: November 25, 2018

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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL		LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC006	TC000	TC000
		Fe2O3	CaO	MgO	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	CO2	TOT/C	TOT/S
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.02	0.02
3209317	Drill Core	4.11	0.49	0.41	2.19	0.03	0.41	0.35	0.02	0.25	0.06	<0.01	0.25	11.94	99.28	0.03	8.84	2.93
3209318	Drill Core	2.98	3.55	2.17	0.96	0.06	0.18	0.20	<0.01	0.13	<0.01	<0.01	1.05	8.92	97.86	4.57	5.37	1.96
3209319	Drill Core	4.80	4.05	2.75	2.11	0.05	0.40	0.23	0.02	0.26	<0.01	<0.01	0.12	15.04	97.87	5.05	9.48	3.14
3209320	Drill Core	5.03	5.74	3.66	1.59	0.07	0.30	0.20	0.01	0.19	<0.01	<0.01	0.13	16.33	96.22	7.63	9.28	3.29
3209321	Drill Core	7.50	1.91	1.16	0.88	0.05	0.18	0.18	<0.01	0.12	<0.01	<0.01	0.17	9.94	99.04	2.05	4.89	5.63
3209322	Drill Core	6.41	4.89	3.18	1.67	0.06	0.32	0.21	0.02	0.20	<0.01	<0.01	<0.01	15.94	97.71	6.31	8.82	4.17
3209323	Drill Core	7.14	6.36	4.20	2.04	0.07	0.39	0.23	0.01	0.24	0.05	<0.01	0.01	16.85	97.25	8.37	8.30	4.65
3209324	Drill Core	5.64	0.43	0.43	2.36	0.03	0.43	0.32	0.01	0.22	<0.01	0.01	<0.01	11.16	98.94	0.03	6.98	4.31
3209325	Drill Core	5.18	0.40	0.39	2.10	0.04	0.65	0.30	0.01	0.19	<0.01	<0.01	<0.01	7.46	98.81	0.06	3.89	3.79
3209326	Drill Core	6.32	0.51	0.63	3.51	0.04	0.74	0.38	0.02	0.28	<0.01	0.05	<0.01	14.12	99.00	<0.02	8.92	4.85
3209327	Drill Core	3.44	0.37	0.29	1.49	0.03	0.26	0.27	<0.01	0.13	<0.01	<0.01	<0.01	10.28	99.36	<0.02	7.81	2.29
3209328	Drill Core	1.21	1.74	0.41	3.46	0.06	0.02	0.02	<0.01	0.03	<0.01	0.47	0.10	3.43	98.85	1.07	0.67	0.23
3209329	Rock	3.87	2.81	1.23	1.81	0.12	0.39	0.09	<0.01	0.08	<0.01	<0.01	<0.01	1.06	99.13	0.29	0.11	<0.02
3209330	Drill Core	1.07	1.73	0.42	3.43	0.06	0.04	0.01	<0.01	0.04	<0.01	<0.01	<0.01	2.96	99.20	1.04	0.47	0.11
3209331	Drill Core	1.41	1.69	0.18	3.44	0.06	0.02	0.01	<0.01	0.04	<0.01	0.16	<0.01	2.51	99.41	1.07	0.41	0.38
3209332	Drill Core	1.05	1.65	0.10	3.77	0.06	0.01	0.01	<0.01	0.02	<0.01	<0.01	<0.01	2.20	99.11	1.13	0.40	0.05
3209333	Drill Core	1.07	1.60	0.13	3.75	0.05	0.01	0.01	<0.01	0.02	<0.01	<0.01	<0.01	2.18	99.38	1.15	0.38	0.06
3209334	Drill Core	1.03	1.62	0.30	3.61	0.06	0.02	0.02	<0.01	0.02	<0.01	<0.01	<0.01	2.52	99.50	1.02	0.41	0.04
3209335	Drill Core	1.07	1.32	0.49	2.66	0.05	0.02	0.02	<0.01	0.03	<0.01	0.01	<0.01	2.93	99.76	0.66	0.36	0.05
3209336	Drill Core	4.22	3.46	2.43	2.80	0.05	0.40	0.14	0.02	0.21	<0.01	<0.01	<0.01	11.75	98.11	4.41	6.19	2.72



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QUALITY CONTROL REPORT

WHI18000984.1

	Method	WGHT	FA330	FA330	FA330	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
	Analyte	Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi
	Unit	kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.01	2	3	2	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
3209317	Drill Core	6.26	9	8	13	142.7	636.4	63.4	2558	3.4	179.6	45.7	68	2.63	117	27.2	5.5	20	11.7	21.1	<0.5
3209335	Drill Core	7.03	<2	<3	<2	<0.5	3.0	52.5	78	<0.5	<0.5	<0.5	174	0.26	<5	10.6	1.8	24	<0.5	0.7	1.5
Pulp Duplicates																					
3209276	Drill Core	2.61	7	<3	4	1.3	662.8	46.6	34	3.8	51.0	20.0	7610	22.06	65	<0.5	1.3	19	<0.5	10.2	<0.5
REP 3209276	QC																				
3209280	Drill Core	4.06	8	3	4	1.5	327.2	115.0	18	2.2	37.2	12.1	5067	17.35	65	<0.5	1.7	9	<0.5	7.5	<0.5
REP 3209280	QC		7	<3	<2																
3209282	Drill Core	3.30	5	5	6	3.7	269.6	40.7	32	1.5	40.2	15.5	4982	16.85	12	0.8	3.4	39	<0.5	7.2	<0.5
REP 3209282	QC		5	<3	3																
REP 3209286	QC					15.9	76.7	14.9	941	<0.5	108.2	18.4	757	4.06	<5	4.7	4.6	86	6.5	8.9	<0.5
3209302	Drill Core	6.67	10	<3	8	99.7	72.7	86.7	11	1.4	191.9	21.1	84	4.67	87	16.2	5.0	16	<0.5	27.1	<0.5
REP 3209302	QC																				
3209305	Drill Core	7.74	8	<3	11	50.0	180.8	28.7	1288	1.1	139.4	32.0	1192	4.78	94	20.0	3.4	197	12.7	13.5	<0.5
REP 3209305	QC																				
3209309	Drill Core	7.49	10	<3	4	59.1	58.3	27.1	51	0.7	125.0	27.9	1130	3.80	83	12.3	3.2	263	<0.5	11.8	<0.5
REP 3209309	QC					57.3	55.8	28.0	51	0.8	121.6	28.6	1120	3.81	84	12.9	3.1	260	<0.5	11.4	<0.5
3209321	Drill Core	6.84	8	<3	8	73.4	94.2	77.3	1645	1.2	179.7	14.1	198	4.99	76	10.8	2.1	48	12.1	15.4	<0.5
REP 3209321	QC																				
3209322	Drill Core	5.19	7	<3	9	114.5	99.1	74.0	73	1.4	237.7	15.7	316	3.99	79	19.8	4.1	106	<0.5	17.9	<0.5
REP 3209322	QC		8	3	11																
3209323	Drill Core	6.74	10	6	12	92.4	538.3	78.3	124	2.9	255.7	28.0	419	4.53	107	15.3	5.2	135	0.9	19.3	<0.5
REP 3209323	QC																				
3209324	Drill Core	7.03	13	6	12	163.2	134.6	102.4	15	1.7	383.7	10.9	70	3.66	135	20.9	4.2	16	<0.5	38.2	<0.5
REP 3209324	QC		14	11	11																
3209330	Drill Core	5.27	<2	3	<2	<0.5	5.4	53.9	76	<0.5	0.6	<0.5	269	0.31	11	9.9	1.8	33	<0.5	1.6	1.6
REP 3209330	QC																				
3209332	Drill Core	5.92	2	<3	<2	<0.5	3.8	61.7	85	<0.5	<0.5	<0.5	253	0.31	<5	10.3	1.7	22	<0.5	1.0	1.8
REP 3209332	QC					<0.5	3.6	62.4	84	<0.5	0.5	<0.5	245	0.31	<5	10.1	1.6	22	<0.5	0.9	1.8
Core Reject Duplicates																					



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	Method Analyte Unit MDL	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725
		V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	SiO2	Al2O3
		ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%
		10	0.01	0.001	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
3209317	Drill Core	358	0.35	0.160	8.3	20.7	0.04	308	0.004	0.47	<0.01	0.22	<0.5	2.13	0.6	1.9	3.02	<5	21	70.20	8.43
3209335	Drill Core	<10	0.87	0.007	3.5	1.0	0.17	27	<0.001	0.66	0.04	0.37	<0.5	<0.05	0.9	<0.5	0.05	<5	<2	72.40	15.40
Pulp Duplicates																					
3209276	Drill Core	37	0.26	0.025	4.0	6.4	0.97	81	<0.001	0.22	<0.01	0.06	<0.5	0.20	3.6	<0.5	4.21	<5	6	44.10	2.46
REP 3209276	QC																				
3209280	Drill Core	34	0.16	0.020	3.7	8.5	0.73	138	0.001	0.19	<0.01	0.10	<0.5	0.22	2.2	<0.5	3.45	<5	3	51.40	3.09
REP 3209280	QC																			51.30	3.09
3209282	Drill Core	55	0.32	0.030	12.8	14.8	0.64	497	0.004	0.73	<0.01	0.36	4.3	0.06	3.6	0.6	2.99	<5	3	51.80	5.22
REP 3209282	QC																				
REP 3209286	QC	60	1.10	0.291	18.7	16.7	0.23	299	0.003	0.43	<0.01	0.20	<0.5	0.84	1.9	<0.5	2.32	<5	7		
3209302	Drill Core	181	0.21	0.097	7.8	14.9	0.02	342	0.003	0.45	<0.01	0.21	<0.5	0.71	<0.5	1.4	5.42	<5	12	72.00	7.67
REP 3209302	QC																				
3209305	Drill Core	203	6.70	0.153	3.9	25.7	2.72	276	0.003	0.43	<0.01	0.17	<0.5	1.30	4.6	1.0	2.92	<5	13	42.30	10.30
REP 3209305	QC																			42.30	10.30
3209309	Drill Core	196	9.14	0.081	5.7	13.8	4.21	241	0.002	0.33	<0.01	0.15	<0.5	0.33	3.2	1.0	1.80	<5	7	39.20	6.80
REP 3209309	QC	195	9.14	0.079	6.0	13.7	4.25	234	0.002	0.34	<0.01	0.15	<0.5	0.31	2.6	1.0	1.81	<5	7		
3209321	Drill Core	217	1.31	0.083	4.0	15.2	0.59	164	0.003	0.22	<0.01	0.11	<0.5	1.67	1.3	1.2	5.55	<5	15	73.40	3.44
REP 3209321	QC																				
3209322	Drill Core	316	3.26	0.094	5.5	18.3	1.65	216	0.003	0.31	<0.01	0.15	<0.5	0.68	2.7	1.7	4.11	<5	17	58.30	6.41
REP 3209322	QC																				
3209323	Drill Core	231	4.32	0.105	5.1	15.7	2.19	216	0.003	0.31	<0.01	0.15	<0.5	0.64	3.4	1.7	4.65	<5	16	51.60	7.95
REP 3209323	QC																			51.70	7.92
3209324	Drill Core	147	0.28	0.150	5.5	13.0	0.02	201	0.003	0.37	<0.01	0.19	<0.5	0.54	1.4	2.5	4.29	<5	37	69.20	8.63
REP 3209324	QC																				
3209330	Drill Core	<10	1.14	0.008	3.4	1.2	0.11	110	<0.001	0.50	0.04	0.36	<0.5	0.16	1.0	<0.5	0.12	<5	<2	71.20	15.00
REP 3209330	QC																			71.40	15.10
3209332	Drill Core	<10	1.08	0.007	3.3	1.3	0.02	42	<0.001	0.34	0.05	0.40	<0.5	<0.05	0.6	<0.5	0.06	<5	<2	71.60	14.90
REP 3209332	QC	<10	1.09	0.007	3.4	1.0	0.02	43	<0.001	0.30	0.05	0.38	<0.5	<0.05	0.7	<0.5	0.06	<5	<2		
Core Reject Duplicates																					



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Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC006	TC000	TC000
Analyte	Fe2O3	CaO	MgO	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	CO2	TOT/C	TOT/S
Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
MDL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.02	0.02	0.02
3209317 Drill Core	4.11	0.49	0.41	2.19	0.03	0.41	0.35	0.02	0.25	0.06	<0.01	0.25	11.94	99.28	0.03	8.84	2.93
3209335 Drill Core	1.07	1.32	0.49	2.66	0.05	0.02	0.02	<0.01	0.03	<0.01	0.01	<0.01	2.93	99.76	0.66	0.36	0.05
Pulp Duplicates																	
3209276 Drill Core	32.40	0.36	1.62	0.49	0.95	0.12	0.05	<0.01	0.04	0.06	<0.01	<0.01	17.43	100.11	14.07	5.29	4.14
REP 3209276 QC															14.07		
3209280 Drill Core	26.80	0.25	1.30	0.73	0.67	0.17	0.06	<0.01	0.08	0.03	0.01	<0.01	15.77	100.41	10.66	5.60	3.82
REP 3209280 QC	26.80	0.25	1.29	0.72	0.67	0.16	0.05	<0.01	0.08	0.03	<0.01	<0.01	15.77	100.26			
3209282 Drill Core	24.70	0.45	1.34	1.47	0.63	0.27	0.07	<0.01	0.13	0.02	<0.01	<0.01	13.69	99.84	9.91	4.28	2.96
REP 3209282 QC																	
REP 3209286 QC																	
3209302 Drill Core	7.11	0.30	0.32	1.99	0.03	0.37	0.22	0.02	0.27	<0.01	0.01	<0.01	9.61	100.01	0.02	5.42	5.34
REP 3209302 QC																5.44	5.36
3209305 Drill Core	7.29	9.54	4.92	2.51	0.18	0.73	0.35	0.04	0.36	0.01	<0.01	0.13	19.17	97.97	12.19	8.63	2.94
REP 3209305 QC	7.29	9.53	4.92	2.51	0.18	0.73	0.34	0.03	0.36	0.01	<0.01	0.13	19.17	97.96			
3209309 Drill Core	5.99	13.20	7.45	1.68	0.17	0.42	0.17	0.02	0.23	<0.01	<0.01	<0.01	23.91	99.31	17.59	9.64	1.75
REP 3209309 QC																	
3209321 Drill Core	7.50	1.91	1.16	0.88	0.05	0.18	0.18	<0.01	0.12	<0.01	<0.01	0.17	9.94	99.04	2.05	4.89	5.63
REP 3209321 QC															2.17		
3209322 Drill Core	6.41	4.89	3.18	1.67	0.06	0.32	0.21	0.02	0.20	<0.01	<0.01	<0.01	15.94	97.71	6.31	8.82	4.17
REP 3209322 QC																	
3209323 Drill Core	7.14	6.36	4.20	2.04	0.07	0.39	0.23	0.01	0.24	0.05	<0.01	0.01	16.85	97.25	8.37	8.30	4.65
REP 3209323 QC	7.11	6.36	4.19	2.04	0.07	0.39	0.23	0.01	0.24	0.05	<0.01	0.01	16.85	97.26			
3209324 Drill Core	5.64	0.43	0.43	2.36	0.03	0.43	0.32	0.01	0.22	<0.01	0.01	<0.01	11.16	98.94	0.03	6.98	4.31
REP 3209324 QC																	
3209330 Drill Core	1.07	1.73	0.42	3.43	0.06	0.04	0.01	<0.01	0.04	<0.01	<0.01	<0.01	2.96	99.20	1.04	0.47	0.11
REP 3209330 QC	1.06	1.73	0.41	3.43	0.06	0.03	0.02	<0.01	0.04	<0.01	<0.01	<0.01	2.96	99.45			
3209332 Drill Core	1.05	1.65	0.10	3.77	0.06	0.01	0.01	<0.01	0.02	<0.01	<0.01	<0.01	2.20	99.11	1.13	0.40	0.05
REP 3209332 QC																0.40	0.05
Core Reject Duplicates																	



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		WGHT	FA330	FA330	FA330	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi
		kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	2	3	2	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
3209286	Drill Core	6.53	7	5	9	16.0	74.1	13.3	1037	<0.5	103.6	18.0	715	4.00	8	4.7	4.7	80	7.1	8.8	<0.5
DUP 3209286	QC		8	<3	10	15.9	74.1	14.4	930	<0.5	107.2	17.1	725	4.04	7	4.6	4.7	84	6.1	9.4	<0.5
3209333	Drill Core	5.03	<2	<3	<2	<0.5	3.1	44.0	52	<0.5	<0.5	<0.5	243	0.33	14	10.5	1.8	21	<0.5	0.6	0.5
DUP 3209333	QC		2	<3	<2	<0.5	2.9	42.5	58	<0.5	1.4	<0.5	217	0.33	13	9.9	1.8	20	<0.5	0.6	<0.5
Reference Materials																					
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD GBM398-4-AR	Standard					923.1	3941.9	11438.3	5330	50.6	4316.8	2138.3	5225	3.81	7	0.6	0.8	12	9.3	6.4	12.0
STD GBM398-4-AR	Standard					926.7	3967.2	11619.3	5303	49.9	4223.1	1859.7	5204	3.82	7	0.7	0.7	14	9.8	7.1	12.7
STD GBM398-4-AR	Standard					909.5	3897.8	11468.7	5016	49.3	4111.1	1974.5	5315	3.58	<5	0.7	0.7	12	9.2	7.2	12.9
STD GBM398-4-AR	Standard					932.3	3913.2	11686.3	5152	48.5	4156.7	1944.9	5184	3.80	7	0.6	0.9	14	8.7	7.6	13.2
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS605	Standard					5.0	50591.6	895.3	2200	974.7	1564.9	101.3	87	3.63	1709	0.9	2.3	44	14.5	283.6	19.1
STD OREAS72B	Standard																				
STD OREAS72B	Standard																				
STD OREAS927-AR	Standard					1.2	10959.4	226.0	734	5.0	30.3	30.4	1111	8.21	14	1.8	13.5	14	1.0	1.5	70.9
STD OREAS927-AR	Standard					1.2	10754.1	223.2	658	4.3	28.6	27.6	1092	8.10	10	1.5	13.1	13	0.9	1.3	68.2
STD OREAS927-AR	Standard					1.2	10664.9	218.1	677	4.1	29.1	29.6	1121	7.89	13	1.7	12.8	14	1.1	1.4	67.2



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		AQ270 V ppm 10	AQ270 Ca % 0.01	AQ270 P % 0.001	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
3209286	Drill Core	63	1.04	0.305	20.3	15.4	0.23	307	0.003	0.44	<0.01	0.22	<0.5	0.73	2.0	<0.5	2.32	<5	8	65.50	9.98
DUP 3209286	QC	61	1.08	0.317	19.4	15.4	0.24	290	0.003	0.44	<0.01	0.21	<0.5	0.82	1.8	<0.5	2.31	<5	10	65.50	9.72
3209333	Drill Core	<10	1.05	0.006	3.8	1.3	0.03	14	<0.001	0.36	0.05	0.37	<0.5	<0.05	0.8	<0.5	0.07	<5	<2	71.20	15.40
DUP 3209333	QC	<10	1.06	0.006	3.7	3.3	0.03	14	<0.001	0.32	0.05	0.36	<0.5	<0.05	0.5	<0.5	0.08	<5	<2	71.20	15.50
Reference Materials																					
STD COO1	Standard																				
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STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD GBM398-4-AR	Standard	28	0.28	0.018	2.6	2025.7	0.10	18	0.111	0.44	0.24	0.10	3.0	3.05	2.3	<0.5	0.96	<5	<2		
STD GBM398-4-AR	Standard	25	0.35	0.019	2.6	1939.2	0.13	19	0.114	0.50	0.24	0.10	2.9	2.91	1.8	<0.5	0.95	<5	2		
STD GBM398-4-AR	Standard	23	0.31	0.020	2.2	1966.9	0.13	18	0.110	0.46	0.24	0.11	3.1	3.46	1.6	<0.5	0.92	<5	<2		
STD GBM398-4-AR	Standard	38	0.34	0.016	2.6	1959.1	0.12	20	0.111	0.48	0.26	0.12	2.9	2.80	2.1	<0.5	0.90	<5	3		
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD OREAS133B(D)	Standard																			33.70	6.83
STD OREAS133B(D)	Standard																			33.60	6.82
STD OREAS605	Standard	<10	0.19	0.010	7.1	29.3	0.02	151	0.010	0.70	0.03	0.13	7.6	1.71	1.8	16.2	8.07	6	80		
STD OREAS72B	Standard																			51.40	8.97
STD OREAS72B	Standard																			51.40	8.98
STD OREAS927-AR	Standard	36	0.29	0.051	27.0	41.7	1.92	50	0.096	3.26	<0.01	0.28	4.9	0.08	3.8	<0.5	1.80	10	16		
STD OREAS927-AR	Standard	34	0.30	0.054	26.5	40.9	1.87	46	0.079	3.19	<0.01	0.26	5.5	0.13	4.2	<0.5	1.76	10	13		
STD OREAS927-AR	Standard	33	0.27	0.049	27.8	40.8	1.89	51	0.077	3.26	<0.01	0.28	5.1	0.08	6.5	<0.5	1.65	10	15		



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		LF725 Fe2O3 %	LF725 CaO %	LF725 MgO %	LF725 K2O %	LF725 MnO %	LF725 TiO2 %	LF725 P2O5 %	LF725 Cr2O3 %	LF725 Ba %	LF725 Cu %	LF725 Pb %	LF725 Zn %	LF725 LOI %	LF725 SUM_T %	TC006 CO2 %	TC000 TOT/C %	TC000 TOT/S %		
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.02	0.02	0.02	
3209286	Drill Core	6.72	1.54	0.74	2.51	0.11	0.67	0.69	0.02	0.35	<0.01	<0.01	0.11	10.75	99.82	1.72	6.64	2.38		
DUP 3209286	QC	6.87	1.59	0.75	2.43	0.12	0.65	0.70	0.02	0.34	<0.01	<0.01	0.10	10.67	99.60	1.87	6.55	2.31		
3209333	Drill Core	1.07	1.60	0.13	3.75	0.05	0.01	0.01	<0.01	0.02	<0.01	<0.01	<0.01	2.18	99.38	1.15	0.38	0.06		
DUP 3209333	QC	1.07	1.61	0.14	3.78	0.06	0.02	0.01	<0.01	0.03	<0.01	<0.01	<0.01	2.22	99.63	1.06	0.40	0.06		
Reference Materials																				
STD COO1	Standard																2.20			
STD COO1	Standard																2.29			
STD COO1	Standard																2.31			
STD COO1	Standard																2.32			
STD COO1	Standard																2.33			
STD COO1	Standard																2.20			
STD COO1	Standard																2.30			
STD COO1	Standard																2.32			
STD GBM398-4-AR	Standard																			
STD GBM398-4-AR	Standard																			
STD GBM398-4-AR	Standard																			
STD GBM398-4-AR	Standard																			
STD GS311-1	Standard																		0.96	2.27
STD GS311-1	Standard																		1.07	2.31
STD GS910-4	Standard																		2.58	7.95
STD GS910-4	Standard																		2.80	8.29
STD OREAS133B(D)	Standard	11.50	5.30	3.69	3.44	0.16	0.23	0.10	<0.01	0.08	0.03	5.06	11.33	13.00	97.62					
STD OREAS133B(D)	Standard	11.50	5.30	3.70	3.43	0.16	0.24	0.10	<0.01	0.07	0.03	5.06	11.33	13.00	97.52					
STD OREAS605	Standard																			
STD OREAS72B	Standard	9.86	3.98	15.80	1.32	0.15	0.34	0.06	0.15	0.03	0.02	<0.01	<0.01	5.12	98.50					
STD OREAS72B	Standard	9.85	3.98	15.90	1.32	0.15	0.35	0.06	0.14	0.03	0.02	<0.01	<0.01	5.12	98.61					
STD OREAS927-AR	Standard																			
STD OREAS927-AR	Standard																			
STD OREAS927-AR	Standard																			



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		WGHT	FA330	FA330	FA330	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi
		kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	2	3	2	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
STD PD05	Standard		497	411	589																
STD PD05	Standard		495	426	587																
STD PG04	Standard		999	915	1216																
STD PG04	Standard		972	903	1188																
STD SY-4(D)	Standard																				
STD SY-4(D)	Standard																				
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD OREAS605 Expected						4.75	49800	856	2170	984	1538	93	86	3.75	1613	0.95		12.9	228	16.7	
STD COO1 Expected																					
STD PD05 Expected			519	430	596																
STD PG04 Expected			1004	903	1196																
STD SY-4(D) Expected																					
STD OREAS72B Expected																					
STD OREAS133B(D) Expected																					
STD GBM398-4-AR Expected						917	3919	11750	5345	49.2	4135	1950	5260	3.95	6	0.7	0.8	13	9.2	7.2	12.9
STD OREAS927-AR Expected						1.06	10715	212	726	4.9	30.9	29.4	1110	8.15	13.5	1.7	12.5	13.1	1.1	1.3	66
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
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
BLK	Blank																				
BLK	Blank																				
BLK	Blank					<0.5	<0.5	<0.5	<5	<0.5	1.1	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5
BLK	Blank		3	<3	<2																
BLK	Blank		<2	<3	<2																
BLK	Blank		3	4	2																



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		AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725
		V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	SiO2	Al2O3
		ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%
		10	0.01	0.001	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
STD PD05	Standard																				
STD PD05	Standard																				
STD PG04	Standard																				
STD PG04	Standard																				
STD SY-4(D)	Standard																			49.60	20.70
STD SY-4(D)	Standard																			49.40	20.70
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD OREAS605 Expected		8.33	0.182	0.0116	3.95	27.5	0.0289	184.8	0.01	0.73	0.0328	0.134	5.9		1.05	15.3	7.86		75		
STD COO1 Expected																					
STD PD05 Expected																					
STD PG04 Expected																					
STD SY-4(D) Expected																				49.9	20.69
STD OREAS72B Expected																				51.16	8.97
STD OREAS133B(D) Expected																				33.83	6.91
STD GBM398-4-AR Expected		24	0.34	0.02	2.8	1950	0.12	21	0.111	0.48	0.25	0.11	3	3.21	1.79		0.94		3		
STD OREAS927-AR Expected		34	0.3	0.054	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		
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<10	<0.01	<0.001	<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	<10	<0.01	<0.001	<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	<10	<0.01	<0.001	<0.5	2.5	<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																				



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		LF725 Fe2O3 %	LF725 CaO %	LF725 MgO %	LF725 K2O %	LF725 MnO %	LF725 TiO2 %	LF725 P2O5 %	LF725 Cr2O3 %	LF725 Ba %	LF725 Cu %	LF725 Pb %	LF725 Zn %	LF725 LOI %	LF725 SUM_T %	TC006 CO2 %	TC000 TOT/C %	TC000 TOT/S %	
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.02	0.02	0.02	
STD PD05	Standard																		
STD PD05	Standard																		
STD PG04	Standard																		
STD PG04	Standard																		
STD SY-4(D)	Standard	6.17	7.99	0.53	1.66	0.11	0.29	0.17	<0.01	0.03	<0.01	<0.01	0.03	4.56	98.78				
STD SY-4(D)	Standard	6.17	8.00	0.54	1.65	0.11	0.29	0.17	<0.01	0.04	<0.01	<0.01	0.03	4.56	98.58				
STD GS311-1 Expected																	1.02	2.35	
STD GS910-4 Expected																	2.65	8.27	
STD OREAS605 Expected																			
STD COO1 Expected																	2.37		
STD PD05 Expected																			
STD PG04 Expected																			
STD SY-4(D) Expected		6.21		0.54	1.66	0.108	0.287	0.131		0.0345				4.56					
STD OREAS72B Expected		9.724	3.96	15.933	1.313	0.13	0.355	0.061	0.142	0.0335	0.0193			5.12					
STD OREAS133B(D) Expected		11.67	5.4	3.73						0.08	0.032	5.06	11.35						
STD GBM398-4-AR Expected																			
STD OREAS927-AR Expected																			
BLK	Blank																<0.02	<0.02	
BLK	Blank																<0.02	<0.02	
BLK	Blank																<0.02		
BLK	Blank																		
BLK	Blank																<0.02		
BLK	Blank																		
BLK	Blank																<0.02		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		



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		WGHT	FA330	FA330	FA330	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi
		kg	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	2	3	2	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
BLK	Blank		3	<3	3																
SI BLK	Blank																				
SI BLK	Blank																				
BLK	Blank					<0.5	0.7	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5
Prep Wash																					
ROCK-WHI	Prep Blank		<2	<3	<2	1.2	5.2	4.1	36	<0.5	0.8	3.6	591	1.95	<5	0.5	2.4	28	<0.5	<0.5	<0.5
ROCK-WHI	Prep Blank		<2	<3	<2	1.1	6.5	2.9	37	<0.5	0.8	3.7	598	1.92	<5	<0.5	2.2	33	<0.5	<0.5	<0.5



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		AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725
		V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	SiO2	Al2O3
		ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%
		10	0.01	0.001	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
BLK	Blank																				
SI BLK	Blank																			99.50	0.35
SI BLK	Blank																			99.20	0.33
BLK	Blank	<10	<0.01	0.002	<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		
Prep Wash																					
ROCK-WHI	Prep Blank	26	0.74	0.040	7.5	3.7	0.48	67	0.101	1.09	0.12	0.13	<0.5	<0.05	4.2	<0.5	<0.05	<5	<2	71.40	14.00
ROCK-WHI	Prep Blank	24	0.87	0.041	7.3	3.2	0.48	74	0.101	1.29	0.13	0.14	<0.5	<0.05	4.2	<0.5	0.06	<5	<2	71.20	13.90



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		LF725 Fe2O3	LF725 CaO	LF725 MgO	LF725 K2O	LF725 MnO	LF725 TiO2	LF725 P2O5	LF725 Cr2O3	LF725 Ba	LF725 Cu	LF725 Pb	LF725 Zn	LF725 LOI	LF725 SUM_T	TC006 CO2	TC000 TOT/C	TC000 TOT/S
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.02	0.02	0.02
BLK	Blank																	
SI BLK	Blank	0.02	<0.01	0.03	0.01	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	99.96			
SI BLK	Blank	0.03	<0.01	0.03	<0.01	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	99.64			
BLK	Blank																	
Prep Wash																		
ROCK-WHI	Prep Blank	3.21	2.24	0.89	1.92	0.11	0.35	0.09	<0.01	0.09	<0.01	<0.01	<0.01	1.09	100.00	0.25	0.12	0.03
ROCK-WHI	Prep Blank	3.16	2.32	0.89	1.94	0.11	0.35	0.09	<0.01	0.09	<0.01	<0.01	<0.01	1.28	99.73	0.31	0.12	0.06