



BUREAU VERITAS MINERAL LABORATORIES
Canada

www.bureauveritas.com/um

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: July 18, 2019
Report Date: August 12, 2019
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CERTIFICATE OF ANALYSIS

WHI19000224.1

CLIENT JOB INFORMATION

Project: MacMillan Pass
Shipment ID: FWZ19-BV-013
P.O. Number
Number of Samples: 37

SAMPLE DISPOSAL

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

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

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

CC: Gilles Dessureau
Moir Cruickshanks

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	36	Crush, split and pulverize 500g rock to 200 mesh			WHI
SLBHP	1	Sort, label and box pulps			WHI
CRUBW	36	Extra clean rock wash between samples in crusher			WHI
PULSW	36	Extra Wash with Silica between each sample			WHI
FA330	36	Fire assay fusion Au Pt Pd by ICP-ES	30	Completed	VAN
AQ270	37	1:1:1 Aqua Regia digestion ICP-ES/ICP-MS analysis	1	Completed	VAN
LF725	37	Li2B4O7/LiBO2 fusion, analysis by XRF		Completed	VAN
TC000	37	Total C/S Analysis by Leco	0.1	Completed	VAN
TC007	37	Graphite and Organic C by Leco After Ignition	0.1	Completed	VAN
TC006	37	Inorganic Carbon	0.2	Completed	VAN
TC009	37	Sulfide and Sulfate	0.1	Completed	VAN
SHP01	37	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS

V2O5 from LF725 is Qualitative Data only.


SOFIA DEVOTA
XRF Manager

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Method Analyte Unit MDL		WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	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
3200755	Drill Core	8.60	15.7	31.5	185.0	249	<0.5	41.6	3.1	30	1.23	22	1.8	3.3	24	<0.5	10.2	<0.5	62	0.11	0.084
3200756	Drill Core	5.97	15.1	52.5	155.3	1087	0.6	79.5	5.5	42	2.86	30	2.0	3.1	27	3.2	9.2	<0.5	70	0.18	0.092
3200757	Drill Core	6.35	19.4	130.7	798.4	31084	1.6	76.5	8.4	41	4.62	49	2.5	2.4	27	62.7	14.7	<0.5	74	0.17	0.105
3200758	Drill Core	4.26	16.3	73.7	979.0	25132	1.2	69.8	6.3	73	3.58	49	2.3	3.7	42	30.1	9.6	<0.5	87	0.25	0.136
3200759	Drill Core	3.49	16.0	75.7	10079.0	90904	2.3	44.5	6.6	88	2.07	26	2.9	2.0	35	77.8	7.9	<0.5	84	0.09	0.074
3200760	Drill Core	5.01	17.2	78.6	7750.0	81674	2.0	54.8	5.2	44	1.76	25	2.7	2.5	40	135.6	8.5	<0.5	113	0.08	0.075
3200761	Drill Core	3.98	15.6	71.4	4686.2	44788	1.7	66.2	9.2	57	2.50	34	2.1	2.3	31	74.5	7.5	<0.5	91	0.16	0.093
3200762	Drill Core	3.64	16.3	68.6	628.4	26594	0.9	74.8	6.3	283	3.66	51	3.9	4.3	53	39.7	8.7	<0.5	109	0.35	0.181
3200763	Drill Core	5.40	15.7	74.5	5466.7	80091	1.6	67.8	8.2	72	3.31	33	2.5	2.4	38	106.8	8.9	<0.5	98	0.10	0.077
3200764	Drill Core	4.42	16.7	63.7	8576.3	65939	2.0	60.9	10.2	51	2.76	57	2.3	2.6	38	187.6	6.5	<0.5	189	0.11	0.074
3200765	Rock	1.01	0.9	52.3	5.4	61	<0.5	4.4	9.6	370	2.80	<5	0.9	2.5	79	<0.5	<0.5	<0.5	101	0.99	0.061
3200766	Drill Core	2.31	16.3	77.1	12211.1	74686	2.5	58.1	10.1	56	2.50	57	2.3	2.7	44	150.2	5.8	<0.5	312	0.13	0.070
3200767	Drill Core	2.32	15.0	72.3	12093.6	68040	2.2	58.7	8.4	50	2.29	54	2.3	2.8	44	135.5	5.8	<0.5	282	0.13	0.068
3200768	Drill Core	3.91	15.7	66.9	6146.2	56498	1.7	67.5	9.1	47	2.53	58	1.7	2.8	45	90.1	5.9	<0.5	437	0.12	0.067
3200769	Drill Core	3.78	11.0	41.0	1565.6	6982	0.9	67.5	5.3	64	2.68	131	2.3	3.4	81	14.0	3.4	<0.5	573	0.42	0.188
3200770	Drill Core	4.19	14.3	60.2	14139.1	93634	2.2	52.4	7.1	55	2.26	73	2.2	2.9	59	186.0	7.9	<0.5	398	0.06	0.090
3200771	Drill Core	2.66	17.8	46.0	5676.4	27180	0.8	96.2	12.4	55	2.03	72	2.8	4.8	127	59.7	5.6	<0.5	700	0.23	0.174
3200772	Drill Core	3.46	5.9	27.3	14832.3	64205	0.7	23.7	5.2	89	1.02	54	3.3	0.7	110	132.2	5.4	<0.5	138	0.02	0.107
3200773	Drill Core	2.89	4.3	22.6	11335.2	71004	0.6	10.8	4.1	46	0.38	16	1.1	0.6	26	74.2	4.1	<0.5	104	<0.01	0.017
3200774	Drill Core	2.59	7.6	31.8	28678.5	61347	0.9	24.1	6.0	51	0.61	19	1.2	0.9	39	184.3	12.4	<0.5	190	<0.01	0.021
3200775	Drill Core	3.09	4.5	16.3	19230.0	60173	<0.5	18.6	2.9	38	0.36	22	0.9	0.6	40	125.9	5.5	<0.5	93	<0.01	0.017
3200776	Drill Core	4.43	3.2	15.2	16548.6	54816	<0.5	10.0	2.8	32	0.48	37	1.0	<0.5	41	94.8	3.8	<0.5	67	<0.01	0.015
3200777	Drill Core	3.17	11.5	38.3	7927.9	61733	<0.5	52.9	8.2	33	1.12	34	2.1	2.1	51	67.7	14.7	<0.5	333	0.06	0.065
3200778	Drill Core	3.84	10.3	46.3	4052.0	79762	1.3	53.2	5.7	56	1.16	33	2.5	1.7	67	45.6	6.1	<0.5	301	0.09	0.073
3200779	Drill Core	4.46	18.3	52.8	883.2	40395	0.6	82.3	7.3	68	1.96	39	1.9	4.3	109	17.3	6.8	<0.5	626	0.25	0.124
3200780	Rock Pulp	0.05	4.2	484.5	34182.5	48538	56.9	18.0	46.3	2228	7.30	139	1.6	6.1	23	160.6	46.1	<0.5	10	4.84	0.052
3200781	Drill Core	1.85	11.6	56.5	11052.5	74201	2.2	71.2	9.5	243	3.52	113	2.7	2.4	90	81.1	6.3	<0.5	385	0.14	0.128
3200782	Drill Core	1.81	10.9	56.3	9401.5	72279	1.8	72.1	9.2	207	4.06	176	3.3	2.0	85	79.8	6.5	<0.5	354	0.14	0.146
3200783	Drill Core	3.79	11.7	104.6	23109.3	106356	3.6	65.8	10.4	249	1.42	23	4.0	2.5	137	188.7	7.2	<0.5	344	0.12	0.136
3200784	Drill Core	3.01	11.6	330.9	27910.5	71896	4.4	57.2	9.7	62	1.36	46	4.0	2.9	146	264.6	10.5	<0.5	301	0.14	0.157



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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
3200755	Drill Core	8.1	9.9	0.01	3704	0.003	1.17	<0.01	0.11	<0.5	0.10	0.9	0.8	0.79	<5	3	76.59	7.29	1.97	0.20	0.29
3200756	Drill Core	8.6	12.4	0.01	921	0.003	1.91	<0.01	0.12	<0.5	0.26	1.8	2.9	2.49	<5	5	72.63	7.46	4.43	0.29	0.21
3200757	Drill Core	6.7	14.5	0.01	323	0.003	1.99	<0.01	0.11	<0.5	3.29	2.2	10.9	5.80	<5	9	66.07	6.62	6.90	0.27	0.16
3200758	Drill Core	7.3	16.8	<0.01	492	0.003	2.69	<0.01	0.15	<0.5	2.38	2.6	12.5	3.91	<5	6	66.01	7.81	5.45	0.39	0.14
3200759	Drill Core	6.6	12.8	<0.01	265	0.002	0.99	<0.01	0.11	<0.5	10.36	2.3	4.2	6.07	<5	20	65.80	4.13	3.06	0.15	0.11
3200760	Drill Core	9.3	18.2	<0.01	417	0.002	1.23	<0.01	0.11	<0.5	9.80	3.2	4.1	5.56	<5	15	68.85	4.91	2.47	0.12	0.11
3200761	Drill Core	6.9	16.9	<0.01	457	0.002	1.93	<0.01	0.09	<0.5	5.19	2.3	7.5	4.02	<5	7	70.01	5.50	3.67	0.24	0.10
3200762	Drill Core	10.5	21.4	0.01	656	0.002	3.32	<0.01	0.09	<0.5	2.93	3.7	13.8	3.42	<5	5	62.31	8.02	5.29	0.49	0.10
3200763	Drill Core	7.2	16.7	<0.01	232	0.002	1.75	<0.01	0.07	<0.5	7.93	5.2	7.4	7.00	<5	8	63.35	5.43	4.71	0.14	0.10
3200764	Drill Core	9.4	29.3	<0.01	297	0.014	1.54	<0.01	0.07	<0.5	5.29	2.9	5.2	5.58	6	8	68.93	4.33	3.93	0.15	0.07
3200765	Rock	6.7	4.9	0.81	206	0.184	1.72	0.21	0.30	<0.5	<0.05	3.0	<0.5	<0.05	6	<2	60.71	16.81	6.16	6.27	2.90
3200766	Drill Core	10.6	49.7	<0.01	382	0.044	1.92	<0.01	0.10	<0.5	3.45	4.6	7.3	5.41	8	8	68.66	4.13	3.58	0.18	0.04
3200767	Drill Core	10.5	47.3	<0.01	386	0.041	1.98	<0.01	0.10	<0.5	3.37	5.2	6.5	4.90	8	7	68.77	4.25	3.18	0.19	0.04
3200768	Drill Core	11.0	71.7	<0.01	540	0.097	1.90	<0.01	0.08	<0.5	2.55	2.8	6.4	4.47	7	5	71.95	4.29	3.59	0.17	0.02
3200769	Drill Core	17.9	101.9	<0.01	1791	0.132	2.67	0.01	0.06	<0.5	0.59	3.1	4.6	1.66	5	4	73.40	5.66	3.81	0.57	0.03
3200770	Drill Core	9.3	81.7	<0.01	235	0.123	1.28	<0.01	<0.01	0.6	3.29	3.6	2.4	6.84	7	7	65.33	4.74	3.24	0.08	0.02
3200771	Drill Core	21.2	143.7	<0.01	509	0.216	1.73	<0.01	0.01	<0.5	0.74	1.4	3.6	3.16	<5	5	65.81	6.63	2.92	0.33	0.02
3200772	Drill Core	2.5	24.6	<0.01	345	0.032	0.59	<0.01	<0.01	<0.5	0.64	3.8	1.3	4.36	<5	5	24.38	1.99	1.44	0.04	0.01
3200773	Drill Core	2.1	20.7	<0.01	358	0.031	0.15	<0.01	<0.01	0.6	1.02	0.9	1.2	4.02	<5	<2	20.43	1.10	0.55	0.01	0.01
3200774	Drill Core	3.6	34.9	<0.01	411	0.055	0.34	<0.01	<0.01	<0.5	1.90	0.9	2.0	3.94	<5	2	35.32	2.24	0.84	0.02	0.02
3200775	Drill Core	1.6	17.2	<0.01	454	0.027	0.16	<0.01	<0.01	<0.5	0.88	<0.5	2.4	3.56	<5	3	22.47	1.04	0.52	0.02	0.01
3200776	Drill Core	1.6	12.9	<0.01	451	0.020	0.15	<0.01	<0.01	<0.5	0.69	0.9	1.7	3.31	<5	<2	23.07	0.87	0.69	0.02	<0.01
3200777	Drill Core	8.2	64.5	<0.01	335	0.103	0.75	<0.01	<0.01	<0.5	2.78	1.3	2.3	4.12	<5	3	46.97	4.03	1.59	0.09	0.01
3200778	Drill Core	7.7	54.5	<0.01	346	0.087	0.73	<0.01	<0.01	<0.5	17.16	1.7	1.0	4.92	<5	8	40.23	2.99	1.63	0.13	0.02
3200779	Drill Core	20.4	122.5	<0.01	1047	0.193	2.91	<0.01	0.03	<0.5	9.70	2.4	2.5	2.48	7	4	69.33	7.21	2.79	0.35	0.02
3200780	Rock Pulp	21.7	13.9	2.59	229	0.016	1.01	0.01	0.67	<0.5	0.89	2.9	44.9	7.78	<5	<2	38.05	7.60	11.04	6.89	4.88
3200781	Drill Core	6.7	73.8	<0.01	234	0.114	1.52	<0.01	<0.01	<0.5	20.60	4.4	1.7	6.52	7	8	60.70	3.67	5.00	0.20	0.03
3200782	Drill Core	6.8	70.6	<0.01	225	0.104	1.49	<0.01	<0.01	<0.5	19.14	4.4	1.5	6.99	7	6	59.27	3.56	5.84	0.20	0.02
3200783	Drill Core	8.5	69.0	<0.01	310	0.104	1.46	<0.01	<0.01	<0.5	33.45	5.1	1.1	6.12	7	13	60.39	3.39	1.99	0.17	0.01
3200784	Drill Core	8.8	71.5	<0.01	432	0.093	1.33	<0.01	<0.01	<0.5	24.60	5.3	2.0	4.74	7	12	67.80	3.86	1.95	0.20	<0.01



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	Method Analyte Unit MDL	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008
		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	0.05
3200755	Drill Core	1.24	0.03	0.40	0.20	0.01	4.12	<0.01	0.02	0.03	6.03	98.91	0.14	2.47	1.57	2.34	0.12	<0.08	0.87	2.11
3200756	Drill Core	0.93	0.03	0.36	0.24	0.01	4.88	<0.01	0.02	0.11	6.96	99.18	0.12	2.40	3.69	2.28	0.11	<0.08	3.03	1.96
3200757	Drill Core	0.73	0.03	0.30	0.26	0.01	4.76	<0.01	0.10	3.03	8.90	99.49	0.11	2.64	7.08	2.46	0.18	<0.08	5.33	5.25
3200758	Drill Core	0.77	0.03	0.32	0.30	0.02	6.49	<0.01	0.13	2.51	7.74	99.51	0.11	2.43	5.63	2.16	0.26	<0.08	4.24	4.16
3200759	Drill Core	0.61	0.04	0.23	0.16	<0.01	4.15	<0.01	1.01	8.76	7.87	98.88	0.09	2.30	7.39	2.26	<0.02	<0.08	3.91	10.45
3200760	Drill Core	0.53	0.03	0.25	0.20	<0.01	2.66	<0.01	0.76	8.35	7.70	99.47	0.11	2.40	6.27	1.52	0.87	<0.08	3.27	8.98
3200761	Drill Core	0.43	0.03	0.26	0.21	0.02	5.16	<0.01	0.49	4.57	7.35	99.85	0.09	2.52	5.36	1.12	1.39	<0.08	2.95	7.24
3200762	Drill Core	0.41	0.06	0.32	0.43	0.01	8.05	<0.01	0.08	2.68	8.29	98.17	0.10	2.44	5.64	0.98	1.41	0.17	3.85	5.39
3200763	Drill Core	0.34	0.03	0.25	0.19	<0.01	4.24	<0.01	0.54	8.22	8.92	99.10	0.09	2.07	8.32	1.00	1.07	<0.08	3.88	13.31
3200764	Drill Core	0.23	0.04	0.29	0.18	<0.01	3.91	0.02	0.84	6.66	7.81	99.68	0.10	2.48	6.66	1.29	1.18	<0.08	3.23	10.27
3200765	Rock	1.53	0.14	0.53	0.14	<0.01	0.05	<0.01	<0.01	<0.01	0.74	99.34	0.02	0.07	<0.02	0.05	<0.02	<0.08	<0.05	0.18
3200766	Drill Core	0.18	0.03	0.27	0.16	<0.01	4.36	<0.01	1.24	7.60	7.07	100.09	0.10	2.58	6.83	1.44	1.13	<0.08	3.54	9.86
3200767	Drill Core	0.18	0.03	0.26	0.16	0.01	4.40	<0.01	1.16	6.78	6.89	98.64	0.09	2.50	6.05	1.32	1.18	<0.08	3.12	8.81
3200768	Drill Core	0.10	0.03	0.29	0.16	<0.01	4.45	<0.01	0.64	5.60	6.64	99.92	0.10	2.38	5.69	1.04	1.34	<0.08	2.84	8.54
3200769	Drill Core	0.08	0.03	0.31	0.47	0.01	6.17	<0.01	0.17	0.68	5.93	98.24	0.11	3.23	3.18	1.35	1.87	<0.08	2.64	1.63
3200770	Drill Core	<0.01	0.03	0.27	0.22	0.01	3.40	<0.01	1.40	9.56	8.75	100.04	0.08	1.78	8.18	0.90	0.87	<0.08	3.04	15.40
3200771	Drill Core	<0.01	0.03	0.41	0.42	0.01	8.17	<0.01	0.56	2.72	8.25	98.00	0.13	1.48	5.14	0.63	0.84	<0.08	1.99	9.46
3200772	Drill Core	<0.01	0.04	0.08	0.24	<0.01	34.20	<0.01	1.50	6.37	4.97	81.01	0.03	0.13	12.86	0.12	<0.02	<0.08	1.92	32.82
3200773	Drill Core	<0.01	0.04	0.07	0.04	<0.01	38.37	<0.01	1.14	7.10	3.06	78.28	0.02	0.06	12.73	0.06	<0.02	<0.08	0.71	36.06
3200774	Drill Core	<0.01	0.03	0.11	0.08	<0.01	27.57	<0.01	2.84	5.89	4.48	84.36	0.04	0.05	10.67	0.04	<0.02	<0.08	1.83	26.52
3200775	Drill Core	<0.01	0.04	0.04	0.05	<0.01	36.96	<0.01	1.98	5.79	2.90	77.73	0.02	0.06	12.41	0.05	<0.02	<0.08	1.23	33.54
3200776	Drill Core	<0.01	0.03	0.03	0.03	<0.01	36.74	<0.01	1.69	5.22	2.77	76.91	<0.01	0.04	11.76	0.03	<0.02	<0.08	1.01	32.25
3200777	Drill Core	<0.01	0.04	0.21	0.18	0.01	19.93	<0.01	0.77	6.07	6.03	89.84	0.06	0.06	9.07	0.05	<0.02	<0.08	1.72	22.07
3200778	Drill Core	<0.01	0.03	0.15	0.16	<0.01	23.39	<0.01	0.41	7.96	5.40	87.31	0.05	0.14	10.86	0.10	0.03	<0.08	2.18	26.05
3200779	Drill Core	0.03	0.04	0.36	0.30	0.01	6.98	<0.01	0.09	3.99	5.75	99.11	0.11	1.67	4.20	0.89	0.76	<0.08	1.91	6.85
3200780	Rock Pulp	3.59	0.30	0.25	0.12	<0.01	0.09	0.04	3.60	5.00	15.52	98.71	<0.01	3.25	7.92	0.60	<0.02	9.69	3.95	11.91
3200781	Drill Core	<0.01	0.05	0.20	0.29	<0.01	7.57	<0.01	1.05	7.39	8.36	97.36	0.07	1.33	8.88	0.83	0.43	0.25	3.78	15.31
3200782	Drill Core	<0.01	0.04	0.19	0.33	<0.01	8.58	<0.01	0.92	7.28	8.72	97.88	0.06	1.24	9.45	1.00	0.17	0.23	4.12	16.00
3200783	Drill Core	<0.01	0.05	0.19	0.31	<0.01	6.76	<0.01	2.25	10.56	8.02	97.75	0.06	1.10	7.92	0.89	0.12	0.34	1.96	17.87
3200784	Drill Core	<0.01	0.03	0.19	0.36	<0.01	5.45	0.02	2.82	7.15	6.96	99.51	0.06	0.81	6.20	0.68	0.13	<0.08	2.84	10.08



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Project: MacMillan Pass

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CERTIFICATE OF ANALYSIS

WHI19000224.1

	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
3200785	Drill Core	2.99	12.0	280.4	26412.0	96033	4.0	78.6	8.5	40	1.43	47	5.3	2.8	121	205.3	10.5	<0.5	327	0.13	0.205
3200786	Drill Core	4.30	15.5	231.1	3318.1	78002	1.6	62.5	7.4	262	2.11	39	2.4	3.0	101	31.7	8.5	<0.5	470	0.17	0.116
3200787	Drill Core	3.04	18.3	125.1	766.6	44269	1.5	68.7	7.4	169	2.59	36	2.2	3.6	72	24.7	17.8	<0.5	324	0.27	0.123
3200788	Drill Core	8.19	4.4	70.8	44.8	1511	<0.5	69.8	12.6	813	3.40	21	1.4	5.3	48	0.6	7.7	<0.5	45	0.35	0.067
3200789	Drill Core	7.76	4.3	87.5	37.5	1294	<0.5	91.7	12.6	1176	4.13	13	1.5	5.1	36	1.2	6.7	<0.5	37	0.17	0.082
3200790	Drill Core	7.27	4.4	112.9	36.7	456	0.5	66.3	11.7	1169	4.01	16	1.5	5.9	61	1.2	7.6	<0.5	29	0.18	0.111
3200791	Drill Core	4.91	5.9	63.7	52.9	84	0.7	87.1	12.6	605	2.88	24	1.7	7.2	55	1.4	11.8	<0.5	35	0.18	0.092



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CERTIFICATE OF ANALYSIS

WHI19000224.1

	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
3200785	Drill Core	9.3	69.7	<0.01	261	0.097	1.19	<0.01	<0.01	<0.5	31.20	5.8	2.2	6.23	7	14	48.56	4.22	2.04	0.19	0.01
3200786	Drill Core	11.7	84.9	<0.01	539	0.139	2.59	<0.01	0.07	<0.5	17.08	5.6	1.9	4.14	11	6	64.43	5.36	2.99	0.24	0.02
3200787	Drill Core	10.2	58.4	<0.01	837	0.057	3.52	<0.01	0.12	<0.5	8.13	3.8	4.3	2.70	11	6	65.27	7.05	3.69	0.37	0.05
3200788	Drill Core	20.2	12.5	0.11	>5000	0.003	4.36	<0.01	0.09	<0.5	0.65	4.4	0.6	0.49	8	3	64.10	9.83	4.91	0.48	0.27
3200789	Drill Core	13.5	9.0	0.01	2292	0.003	2.15	<0.01	0.11	<0.5	0.50	2.4	<0.5	1.93	<5	<2	66.79	9.29	6.33	0.25	0.22
3200790	Drill Core	11.7	7.0	0.02	1130	0.003	0.62	<0.01	0.13	<0.5	0.23	2.0	<0.5	2.74	<5	3	68.28	9.94	6.19	0.24	0.35
3200791	Drill Core	17.5	10.7	0.02	1933	0.004	0.62	<0.01	0.21	<0.5	0.17	1.9	0.5	2.48	<5	4	72.79	11.09	4.48	0.24	0.44



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CERTIFICATE OF ANALYSIS

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	Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008
	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	0.05	0.05
3200785	Drill Core	<0.01	0.05	0.22	0.46	<0.01	13.68	0.04	2.51	9.67	8.58	94.49	0.06	1.02	9.55	0.95	0.07	<0.08	2.48	21.19
3200786	Drill Core	0.08	0.05	0.28	0.31	<0.01	6.80	0.02	0.32	7.73	6.92	98.33	0.09	2.32	6.02	1.80	0.45	0.22	1.91	12.33
3200787	Drill Core	0.25	0.04	0.35	0.30	0.01	8.42	0.02	0.08	4.39	6.52	98.93	0.11	2.62	4.99	1.38	1.20	0.15	2.89	6.30
3200788	Drill Core	0.52	0.13	0.53	0.15	0.01	10.56	<0.01	<0.01	0.15	5.33	98.29	0.05	1.25	2.41	0.50	0.44	1.14	2.02	1.16
3200789	Drill Core	1.09	0.18	0.51	0.21	0.01	6.16	<0.01	0.01	0.13	6.67	98.64	0.06	1.35	2.92	0.42	0.62	1.13	2.06	2.59
3200790	Drill Core	1.98	0.17	0.53	0.26	<0.01	3.38	<0.01	<0.01	0.04	6.22	98.09	0.06	1.60	3.11	0.83	0.52	0.93	2.47	1.93
3200791	Drill Core	2.58	0.10	0.61	0.21	<0.01	1.69	<0.01	<0.01	<0.01	5.05	99.55	0.06	1.38	2.34	0.95	0.32	0.41	2.15	0.57



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QUALITY CONTROL REPORT

WHI19000224.1

	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
3200756	Drill Core	5.97	15.1	52.5	155.3	1087	0.6	79.5	5.5	42	2.86	30	2.0	3.1	27	3.2	9.2	<0.5	70	0.18	0.092
3200760	Drill Core	5.01	17.2	78.6	7750.0	81674	2.0	54.8	5.2	44	1.76	25	2.7	2.5	40	135.6	8.5	<0.5	113	0.08	0.075
3200791	Drill Core	4.91	5.9	63.7	52.9	84	0.7	87.1	12.6	605	2.88	24	1.7	7.2	55	1.4	11.8	<0.5	35	0.18	0.092
Pulp Duplicates																					
3200757	Drill Core	6.35	19.4	130.7	798.4	31084	1.6	76.5	8.4	41	4.62	49	2.5	2.4	27	62.7	14.7	<0.5	74	0.17	0.105
REP 3200757	QC																				
3200764	Drill Core	4.42	16.7	63.7	8576.3	65939	2.0	60.9	10.2	51	2.76	57	2.3	2.6	38	187.6	6.5	<0.5	189	0.11	0.074
REP 3200764	QC																				
3200767	Drill Core	2.32	15.0	72.3	12093.6	68040	2.2	58.7	8.4	50	2.29	54	2.3	2.8	44	135.5	5.8	<0.5	282	0.13	0.068
REP 3200767	QC																				
3200772	Drill Core	3.46	5.9	27.3	14832.3	64205	0.7	23.7	5.2	89	1.02	54	3.3	0.7	110	132.2	5.4	<0.5	138	0.02	0.107
REP 3200772	QC																				
3200778	Drill Core	3.84	10.3	46.3	4052.0	79762	1.3	53.2	5.7	56	1.16	33	2.5	1.7	67	45.6	6.1	<0.5	301	0.09	0.073
REP 3200778	QC																				
3200779	Drill Core	4.46	18.3	52.8	883.2	40395	0.6	82.3	7.3	68	1.96	39	1.9	4.3	109	17.3	6.8	<0.5	626	0.25	0.124
REP 3200779	QC		18.0	49.6	842.3	40418	0.6	82.0	7.9	62	1.90	39	1.9	4.3	103	17.9	7.0	<0.5	630	0.25	0.128
3200780	Rock Pulp	0.05	4.2	484.5	34182.5	48538	56.9	18.0	46.3	2228	7.30	139	1.6	6.1	23	160.6	46.1	<0.5	10	4.84	0.052
REP 3200780	QC																				
3200790	Drill Core	7.27	4.4	112.9	36.7	456	0.5	66.3	11.7	1169	4.01	16	1.5	5.9	61	1.2	7.6	<0.5	29	0.18	0.111
REP 3200790	QC																				
Core Reject Duplicates																					
3200762	Drill Core	3.64	16.3	68.6	628.4	26594	0.9	74.8	6.3	283	3.66	51	3.9	4.3	53	39.7	8.7	<0.5	109	0.35	0.181
DUP 3200762	QC		16.5	70.8	632.8	26504	0.9	74.6	6.7	293	3.71	48	3.8	4.3	53	37.9	8.2	<0.5	124	0.35	0.169
Reference Materials																					
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD GGC-10	Standard																				



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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
3200756	Drill Core	8.6	12.4	0.01	921	0.003	1.91	<0.01	0.12	<0.5	0.26	1.8	2.9	2.49	<5	5	72.63	7.46	4.43	0.29	0.21
3200760	Drill Core	9.3	18.2	<0.01	417	0.002	1.23	<0.01	0.11	<0.5	9.80	3.2	4.1	5.56	<5	15	68.85	4.91	2.47	0.12	0.11
3200791	Drill Core	17.5	10.7	0.02	1933	0.004	0.62	<0.01	0.21	<0.5	0.17	1.9	0.5	2.48	<5	4	72.79	11.09	4.48	0.24	0.44
Pulp Duplicates																					
3200757	Drill Core	6.7	14.5	0.01	323	0.003	1.99	<0.01	0.11	<0.5	3.29	2.2	10.9	5.80	<5	9	66.07	6.62	6.90	0.27	0.16
REP 3200757	QC																66.08	6.54	6.83	0.27	0.17
3200764	Drill Core	9.4	29.3	<0.01	297	0.014	1.54	<0.01	0.07	<0.5	5.29	2.9	5.2	5.58	6	8	68.93	4.33	3.93	0.15	0.07
REP 3200764	QC																				
3200767	Drill Core	10.5	47.3	<0.01	386	0.041	1.98	<0.01	0.10	<0.5	3.37	5.2	6.5	4.90	8	7	68.77	4.25	3.18	0.19	0.04
REP 3200767	QC																				
3200772	Drill Core	2.5	24.6	<0.01	345	0.032	0.59	<0.01	<0.01	<0.5	0.64	3.8	1.3	4.36	<5	5	24.38	1.99	1.44	0.04	0.01
REP 3200772	QC																				
3200778	Drill Core	7.7	54.5	<0.01	346	0.087	0.73	<0.01	<0.01	<0.5	17.16	1.7	1.0	4.92	<5	8	40.23	2.99	1.63	0.13	0.02
REP 3200778	QC																				
3200779	Drill Core	20.4	122.5	<0.01	1047	0.193	2.91	<0.01	0.03	<0.5	9.70	2.4	2.5	2.48	7	4	69.33	7.21	2.79	0.35	0.02
REP 3200779	QC	19.8	115.9	<0.01	1011	0.194	2.88	<0.01	0.03	<0.5	9.10	1.6	2.6	2.48	7	4					
3200780	Rock Pulp	21.7	13.9	2.59	229	0.016	1.01	0.01	0.67	<0.5	0.89	2.9	44.9	7.78	<5	<2	38.05	7.60	11.04	6.89	4.88
REP 3200780	QC																38.03	7.61	11.01	6.88	4.83
3200790	Drill Core	11.7	7.0	0.02	1130	0.003	0.62	<0.01	0.13	<0.5	0.23	2.0	<0.5	2.74	<5	3	68.28	9.94	6.19	0.24	0.35
REP 3200790	QC																68.26	9.89	6.13	0.24	0.35
Core Reject Duplicates																					
3200762	Drill Core	10.5	21.4	0.01	656	0.002	3.32	<0.01	0.09	<0.5	2.93	3.7	13.8	3.42	<5	5	62.31	8.02	5.29	0.49	0.10
DUP 3200762	QC	11.0	23.2	0.01	624	0.003	3.37	<0.01	0.09	<0.5	3.01	3.2	14.0	3.43	<5	3	63.67	8.24	5.55	0.49	0.11
Reference Materials																					
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD COO1	Standard																				
STD GGC-10	Standard																				



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QUALITY CONTROL REPORT

WHI19000224.1

	Method Analyte Unit MDL	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008
		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	0.05	0.05
3200756	Drill Core	0.93	0.03	0.36	0.24	0.01	4.88	<0.01	0.02	0.11	6.96	99.18	0.12	2.40	3.69	2.28	0.11	<0.08	3.03	1.96
3200760	Drill Core	0.53	0.03	0.25	0.20	<0.01	2.66	<0.01	0.76	8.35	7.70	99.47	0.11	2.40	6.27	1.52	0.87	<0.08	3.27	8.98
3200791	Drill Core	2.58	0.10	0.61	0.21	<0.01	1.69	<0.01	<0.01	<0.01	5.05	99.55	0.06	1.38	2.34	0.95	0.32	0.41	2.15	0.57
Pulp Duplicates																				
3200757	Drill Core	0.73	0.03	0.30	0.26	0.01	4.76	<0.01	0.10	3.03	8.90	99.49	0.11	2.64	7.08	2.46	0.18	<0.08	5.33	5.25
REP 3200757	QC	0.74	0.03	0.30	0.25	0.01	4.77	<0.01	0.10	3.04	8.90	99.38	0.10							
3200764	Drill Core	0.23	0.04	0.29	0.18	<0.01	3.91	0.02	0.84	6.66	7.81	99.68	0.10	2.48	6.66	1.29	1.18	<0.08	3.23	10.27
REP 3200764	QC																			10.36
3200767	Drill Core	0.18	0.03	0.26	0.16	0.01	4.40	<0.01	1.16	6.78	6.89	98.64	0.09	2.50	6.05	1.32	1.18	<0.08	3.12	8.81
REP 3200767	QC																1.25			
3200772	Drill Core	<0.01	0.04	0.08	0.24	<0.01	34.20	<0.01	1.50	6.37	4.97	81.01	0.03	0.13	12.86	0.12	<0.02	<0.08	1.92	32.82
REP 3200772	QC																	<0.08		
3200778	Drill Core	<0.01	0.03	0.15	0.16	<0.01	23.39	<0.01	0.41	7.96	5.40	87.31	0.05	0.14	10.86	0.10	0.03	<0.08	2.18	26.05
REP 3200778	QC													0.15	10.48					
3200779	Drill Core	0.03	0.04	0.36	0.30	0.01	6.98	<0.01	0.09	3.99	5.75	99.11	0.11	1.67	4.20	0.89	0.76	<0.08	1.91	6.85
REP 3200779	QC																			
3200780	Rock Pulp	3.59	0.30	0.25	0.12	<0.01	0.09	0.04	3.60	5.00	15.52	98.71	<0.01	3.25	7.92	0.60	<0.02	9.69	3.95	11.91
REP 3200780	QC	3.55	0.31	0.24	0.12	<0.01	0.09	0.04	3.57	4.97	15.52	98.46	<0.01							
3200790	Drill Core	1.98	0.17	0.53	0.26	<0.01	3.38	<0.01	<0.01	0.04	6.22	98.09	0.06	1.60	3.11	0.83	0.52	0.93	2.47	1.93
REP 3200790	QC	1.96	0.16	0.54	0.26	0.01	3.36	<0.01	<0.01	0.04	6.22	97.91	0.06	1.63	3.21					
Core Reject Duplicates																				
3200762	Drill Core	0.41	0.06	0.32	0.43	0.01	8.05	<0.01	0.08	2.68	8.29	98.17	0.10	2.44	5.64	0.98	1.41	0.17	3.85	5.39
DUP 3200762	QC	0.43	0.07	0.32	0.42	<0.01	8.31	<0.01	0.09	2.75	8.33	100.47	0.10	2.57	5.55	1.26	1.27	0.17	3.79	5.27
Reference Materials																				
STD COO1	Standard																	2.31		
STD COO1	Standard																	2.37		
STD COO1	Standard																	2.28		
STD COO1	Standard																	2.26		
STD GGC-10	Standard																	4.90		



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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 GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD OREAS135	Standard		8.5	305.7	17465.2	28582	56.3	35.8	27.9	3974	8.98	951	8.9	10.7	28	66.7	39.2	5.3	33	1.81	0.095
STD OREAS133B(D)	Standard																				
STD OREAS133B(D)	Standard																				
STD OREAS605	Standard		5.0	48933.0	887.2	2103	987.1	1534.8	92.4	86	3.60	1635	0.9	2.5	53	13.1	299.2	19.1	<10	0.18	0.011
STD OREAS605	Standard		4.9	48579.7	918.1	2180	963.2	1560.8	98.8	86	3.71	1676	0.9	2.7	53	14.0	307.5	20.3	<10	0.19	0.013
STD OREAS72B	Standard																				
STD OREAS72B	Standard																				
STD OREAS927-AR	Standard		1.3	10642.8	228.0	746	3.8	28.5	29.1	1068	8.15	11	1.7	12.6	12	1.0	1.2	65.6	35	0.32	0.050
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD SY-4(D)	Standard																				
STD SY-4(D)	Standard																				
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD OREAS135 Expected			8.25	294	17000	28000	55.2	36	29.6	3960	8.97	937	9.4	10.4	26.5	67	38	5.1	33.4	1.83	0.086
STD OREAS605 Expected			4.75	49800	856	2170	984	1568	96	86	3.75	1674	0.92		49	13.6	307	19	7.8	0.182	0.0105
STD OREAS927-AR Expected			1.06	10715	212	726	4.9	30.9	29.4	1110	8.15	13.5	1.7	12.5	13.1	1.1	1.3	66	34	0.3	0.054
STD RTS-3A Expected																					
STD GGC-10 Expected																					
STD COO1 Expected																					



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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
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD OREAS135	Standard	39.4	21.4	0.82	399	0.027	1.12	0.02	0.49	3.4	1.23	3.9	6.5	7.26	<5	<2					
STD OREAS133B(D)	Standard																34.56	7.20	11.54	5.29	3.84
STD OREAS133B(D)	Standard																34.78	7.20	11.60	5.30	3.85
STD OREAS605	Standard	7.7	28.3	0.03	262	0.010	0.73	0.03	0.14	7.1	1.55	1.4	16.4	7.75	6	79					
STD OREAS605	Standard	7.4	27.2	0.03	308	0.009	0.75	0.03	0.13	7.1	1.98	1.4	17.6	7.85	7	77					
STD OREAS72B	Standard																51.20	8.95	10.04	3.98	16.12
STD OREAS72B	Standard																51.23	8.87	10.03	3.97	16.12
STD OREAS927-AR	Standard	26.8	39.5	1.90	47	0.090	3.30	<0.01	0.26	5.0	0.09	3.5	<0.5	1.84	10	15					
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD SY-4(D)	Standard																49.81	20.73	6.19	7.99	0.53
STD SY-4(D)	Standard																50.09	20.73	6.19	8.02	0.53
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD OREAS135 Expected		39.8	22	0.833	366	0.026	1.09	0.017	0.487	2.93	1.21	3.51	6.27	7.08	4.8						
STD OREAS605 Expected		7.5	27.5	0.0289	160	0.01	0.73	0.0328	0.134	7.1	1.7	1.05	15.9	7.86	6.7	79					
STD OREAS927-AR Expected		26.9	41.7	1.94	51.4	0.085	3.25	0.011	0.27	4.9	0.12	4.74		1.77	9.09	15.5					
STD RTS-3A Expected																					
STD GGC-10 Expected																					
STD COO1 Expected																					



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		LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008		
		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	0.05	0.05	
STD GGC-10	Standard	4.77																			
STD GGC-10	Standard	4.73																			
STD GGC-10	Standard	4.46																			
STD GS311-1	Standard														1.02	2.31					
STD GS311-1	Standard														1.00	2.26					
STD GS910-4	Standard														2.66	8.77					
STD GS910-4	Standard														2.77	8.35					
STD OREAS135	Standard																				
STD OREAS133B(D)	Standard	3.44	0.16	0.22	0.11	<0.01	0.07	0.06	5.06	11.38	13.03	99.36	<0.01								
STD OREAS133B(D)	Standard	3.47	0.17	0.22	0.13	<0.01	0.06	0.06	5.08	11.38	13.03	99.72	<0.01								
STD OREAS605	Standard																				
STD OREAS605	Standard																				
STD OREAS72B	Standard	1.33	0.15	0.34	0.06	0.14	0.03	0.02	<0.01	<0.01	5.12	98.82	0.01								
STD OREAS72B	Standard	1.32	0.15	0.34	0.05	0.14	0.04	0.02	<0.01	<0.01	5.12	98.77	0.01								
STD OREAS927-AR	Standard																				
STD RTS-3A	Standard																			3.14	
STD RTS-3A	Standard																			3.17	
STD RTS-3A	Standard																			3.30	
STD RTS-3A	Standard																			3.41	
STD SY-4(D)	Standard	1.66	0.11	0.29	0.13	<0.01	0.04	<0.01	0.01	0.01	4.56	99.21	<0.01								
STD SY-4(D)	Standard	1.67	0.11	0.29	0.14	<0.01	0.04	<0.01	0.01	0.01	4.56	99.57	<0.01								
STD GS311-1 Expected															1.02	2.35					
STD GS910-4 Expected															2.65	8.27					
STD OREAS135 Expected																					
STD OREAS605 Expected																					
STD OREAS927-AR Expected																					
STD RTS-3A Expected																				3.3	
STD GGC-10 Expected																			4.79		
STD COO1 Expected																			2.37		



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		WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01
STD SY-4(D) Expected																				
STD OREAS72B Expected																				
STD OREAS133B(D) Expected																				
BLK	Blank																			
BLK	Blank																			
BLK	Blank		<0.5	1.0	<0.5	5	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<10	<0.01
BLK	Blank		<0.5	<0.5	1.2	<5	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<10	<0.01
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
SI BLK	Blank																			
SI BLK	Blank																			
Prep Wash																				
ROCK-WHI	Prep Blank		0.9	2.8	1.4	30	<0.5	1.4	3.5	501	1.91	<5	<0.5	2.1	26	<0.5	<0.5	<0.5	25	0.72
ROCK-WHI	Prep Blank		0.8	2.3	1.6	37	<0.5	0.8	3.9	529	1.97	<5	<0.5	2.3	22	<0.5	<0.5	<0.5	24	0.63



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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 SY-4(D) Expected																	49.9	20.69	6.21	8.05	0.54
STD OREAS72B Expected																	51.16	8.97	9.724	3.96	15.933
STD OREAS133B(D) Expected																	33.83	6.91	11.67	5.4	3.73
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	0.05	<0.5	<0.5	<0.05	<5	<2					
BLK	Blank	<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																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
SI BLK	Blank																98.20	0.32	0.02	0.02	0.03
SI BLK	Blank																98.93	0.32	0.03	0.02	0.02
Prep Wash																					
ROCK-WHI	Prep Blank	6.5	1.9	0.45	68	0.092	0.99	0.10	0.11	<0.5	<0.05	3.5	<0.5	<0.05	<5	<2	69.92	13.93	3.33	2.43	0.88
ROCK-WHI	Prep Blank	6.5	2.2	0.46	66	0.101	0.97	0.11	0.11	<0.5	0.06	3.8	<0.5	<0.05	<5	<2	70.89	14.14	3.43	2.32	0.92



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		LF725 K2O %	LF725 MnO %	LF725 TiO2 %	LF725 P2O5 %	LF725 Cr2O3 %	LF725 Ba %	LF725 Cu %	LF725 Pb %	LF725 Zn %	LF725 LOI %	LF725 SUM_T %	LF725 V2O5 %	TC000 TOT/C %	TC000 TOT/S %	TC005 C/ORG %	TC005 C/GRA %	TC006 CO2 %	TC008 S/S- %	TC008 SO4 %	
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05	
STD SY-4(D) Expected		1.66	0.108	0.287	0.131	0.0345				4.56											
STD OREAS72B Expected		1.313	0.13	0.355	0.061	0.142	0.0335	0.0193	5.12												
STD OREAS133B(D) Expected						0.08	0.032	5.06	11.35												
BLK	Blank												<0.02	<0.02							
BLK	Blank												<0.02	<0.02							
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																		<0.05		
BLK	Blank																		<0.05		
BLK	Blank																		<0.08		
BLK	Blank																<0.02				
BLK	Blank																<0.02				
BLK	Blank																		<0.08		
SI BLK	Blank	<0.01	0.02	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	98.58	<0.01								
SI BLK	Blank	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	99.30	<0.01								
Prep Wash																					
ROCK-WHI	Prep Blank	1.92	0.14	0.36	0.10	<0.01	0.09	0.05	<0.01	<0.01	1.11	98.79	<0.01	0.11	0.04	0.07	<0.02	0.14	<0.05	0.17	
ROCK-WHI	Prep Blank	1.96	0.11	0.36	0.08	<0.01	0.08	<0.01	<0.01	<0.01	0.95	99.89	<0.01	0.09	<0.02	0.06	<0.02	0.14	<0.05	0.20	