



**BUREAU
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MINERAL LABORATORIES
Canada

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

Client: **Midnight Mining**
Box 31347
Whitehorse YT Y1A 5P7 CANADA

Submitted By: Debbie James
Receiving Lab: Canada-Whitehorse
Received: August 03, 2015
Report Date: September 18, 2015
Page: 1 of 4

CERTIFICATE OF ANALYSIS

WHI15000130.1

CLIENT JOB INFORMATION

Project: STU
Shipment ID: STU1
P.O. Number
Number of Samples: 81

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
RTRN-RJT Return

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: Midnight Mining
Box 31347
Whitehorse YT Y1A 5P7
CANADA

CC: Sue Craig
Bill Harris

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	75	Crush, split and pulverize 250 g rock to 200 mesh			WHI
FA430	81	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
MA270	81	4 Acid Digestion Analysis by ICP-ES/ICP-MS	0.5	Completed	VAN
GC921	81	Cu in oxide form, 5% H2SO4	1	Completed	VAN

ADDITIONAL COMMENTS



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



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CERTIFICATE OF ANALYSIS

WHI15000130.1

	Method Analyte Unit MDL	WGHT	FA430	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270
		Wgt	Au	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	ppm	%
		0.01	0.005	0.5	0.5	0.5	5	0.5	0.5	1	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01
615601	Rock	1.57	<0.005	<0.5	57.7	11.8	64	<0.5	3.2	7	724	3.07	<5	0.9	2.9	871	<0.5	<0.5	<0.5	84	1.90
615602	Rock	2.40	0.063	<0.5	1024.3	15.0	86	<0.5	3.6	9	839	3.83	<5	0.9	5.5	749	<0.5	<0.5	<0.5	108	1.45
615603	Rock	1.87	0.070	<0.5	870.5	11.9	85	0.7	2.9	9	842	3.51	<5	0.9	5.1	648	<0.5	<0.5	<0.5	99	1.04
615604	Rock	1.93	0.113	<0.5	1550.8	13.6	82	1.7	3.2	9	670	3.81	<5	1.0	6.3	519	<0.5	<0.5	0.9	112	0.78
615605	Rock	3.10	0.007	0.7	743.0	15.1	70	<0.5	3.6	8	603	3.37	<5	1.0	5.5	835	<0.5	<0.5	<0.5	86	2.30
615606	Rock	2.35	<0.005	<0.5	671.7	11.8	86	<0.5	5.2	14	802	4.57	<5	0.8	5.5	902	<0.5	<0.5	<0.5	114	3.00
615607	Rock	2.61	<0.005	<0.5	47.4	10.4	84	<0.5	3.4	9	943	3.60	<5	0.7	3.3	991	<0.5	<0.5	<0.5	92	3.55
615608	Rock	4.08	<0.005	<0.5	47.2	11.6	76	<0.5	2.3	8	872	3.24	<5	0.8	3.0	980	<0.5	<0.5	<0.5	78	3.02
615609	Rock	4.70	0.007	<0.5	276.9	11.4	86	<0.5	3.3	8	898	3.35	<5	0.8	5.0	940	<0.5	<0.5	<0.5	87	2.75
615610	Rock Pulp	0.11	1.065	235.2	3341.4	139.2	178	3.0	15.0	15	361	4.51	55	7.0	13.6	182	2.4	36.0	6.2	87	0.90
615611	Rock	6.04	<0.005	<0.5	61.2	16.1	56	<0.5	2.1	5	589	2.16	<5	1.1	2.9	673	<0.5	<0.5	<0.5	45	1.58
615612	Rock	3.49	<0.005	<0.5	48.8	12.2	74	<0.5	2.7	7	839	2.99	<5	0.7	2.6	933	<0.5	<0.5	<0.5	77	2.73
615613	Rock	4.31	<0.005	<0.5	87.7	12.8	75	<0.5	2.8	8	716	3.24	<5	1.3	3.7	582	<0.5	<0.5	<0.5	81	1.35
615614	Rock	3.17	<0.005	<0.5	98.7	23.1	150	<0.5	2.8	9	935	3.16	<5	0.5	3.9	935	<0.5	<0.5	<0.5	78	2.83
615615	Rock	2.91	0.054	<0.5	2689.0	31.4	109	0.7	2.5	8	589	3.17	<5	1.2	8.5	688	<0.5	<0.5	<0.5	87	1.37
615616	Rock	5.78	0.012	<0.5	520.5	16.3	56	<0.5	2.4	6	594	2.46	<5	1.2	6.2	352	<0.5	<0.5	<0.5	71	0.81
615617	Rock	1.68	<0.005	0.5	74.6	13.3	103	<0.5	2.7	8	979	3.10	<5	0.8	3.5	857	<0.5	0.8	<0.5	79	2.07
615618	Rock	2.93	0.009	<0.5	656.8	19.5	185	<0.5	2.0	10	726	2.91	<5	0.9	7.1	710	<0.5	<0.5	<0.5	88	2.03
615619	Rock	3.06	0.007	<0.5	354.2	16.0	105	<0.5	1.8	8	694	3.17	<5	0.7	8.0	789	<0.5	<0.5	<0.5	85	2.19
615620	Rock Pulp	0.06	<0.005	1.1	4.3	22.1	58	<0.5	5.3	6	916	2.73	<5	3.6	8.2	843	<0.5	<0.5	<0.5	56	2.76
615621	Rock	4.47	0.007	<0.5	345.8	15.6	94	<0.5	8.6	10	710	2.92	<5	1.0	6.9	669	<0.5	0.5	<0.5	86	1.94
615622	Rock	3.86	0.010	<0.5	350.2	20.6	170	<0.5	7.7	8	861	2.99	<5	1.1	9.5	622	<0.5	<0.5	<0.5	78	1.87
615623	Rock	4.02	0.008	0.6	457.6	21.6	128	<0.5	7.2	10	828	3.41	<5	1.1	8.5	685	<0.5	0.6	<0.5	93	2.17
615624	Rock	4.43	0.013	0.7	774.8	21.8	147	<0.5	7.1	13	940	3.78	<5	1.2	9.5	679	<0.5	<0.5	<0.5	100	2.10
615625	Rock	3.43	0.008	0.6	756.4	27.6	290	<0.5	3.8	13	1320	4.21	<5	1.2	9.2	770	<0.5	0.8	<0.5	111	2.60
615626	Rock	3.79	0.006	1.3	664.5	23.9	130	<0.5	3.5	10	916	3.68	<5	1.0	7.4	739	<0.5	0.6	<0.5	95	2.16
615627	Rock	5.02	0.048	<0.5	1934.4	12.8	93	0.6	2.3	6	691	2.62	<5	0.7	3.8	820	<0.5	<0.5	<0.5	68	2.05
615628	Rock	2.84	0.135	<0.5	2120.2	12.5	88	1.4	2.5	8	678	3.29	<5	0.7	6.5	757	<0.5	<0.5	1.1	87	2.16
615629	Rock	5.42	0.243	<0.5	4980.4	18.0	83	2.4	3.0	7	797	2.82	<5	0.9	6.2	725	<0.5	<0.5	1.6	80	1.94
615630	Rock Pulp	0.12	0.999	236.8	3360.9	138.5	198	4.2	15.5	15	364	4.46	54	7.3	14.1	181	3.2	36.6	6.1	86	0.91



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.5	1	0.01	5	0.001	0.01	0.01	0.01	0.5	0.5	5	0.5	0.5	0.5	0.5	5	1	0.5	0.05
615601	Rock	0.08	12.7	3	0.79	1895	0.242	8.81	3.53	1.80	<0.5	7.9	28	1.2	11.2	7.0	<0.5	<5	7	9.9	<0.05
615602	Rock	0.14	23.0	5	1.07	1535	0.318	8.62	3.09	1.79	<0.5	7.7	50	1.1	7.4	8.3	0.5	<5	9	11.9	<0.05
615603	Rock	0.11	21.0	5	1.00	833	0.289	8.83	3.54	1.55	<0.5	7.8	44	1.1	7.5	7.4	<0.5	<5	9	11.9	<0.05
615604	Rock	0.13	18.7	5	0.93	333	0.338	8.67	3.43	1.42	<0.5	8.4	45	1.1	8.1	8.7	<0.5	<5	9	11.5	<0.05
615605	Rock	0.09	18.2	5	0.76	2396	0.248	8.17	2.95	2.26	<0.5	19.5	33	0.6	10.8	6.4	<0.5	<5	6	8.4	<0.05
615606	Rock	0.12	24.2	6	1.04	2072	0.319	8.73	3.12	1.70	<0.5	11.0	42	1.3	13.9	8.1	<0.5	<5	10	10.1	<0.05
615607	Rock	0.09	16.3	5	0.98	961	0.269	8.97	3.68	1.17	<0.5	10.6	34	1.1	14.6	6.5	<0.5	<5	11	11.4	<0.05
615608	Rock	0.08	13.7	5	0.83	1494	0.234	8.60	3.59	1.50	<0.5	9.6	28	1.1	13.6	6.4	<0.5	<5	9	8.2	<0.05
615609	Rock	0.10	19.4	4	0.93	1429	0.265	8.82	3.50	1.60	<0.5	8.9	38	1.3	12.4	6.4	<0.5	<5	9	11.1	<0.05
615610	Rock Pulp	0.07	45.9	95	0.76	915	0.176	7.42	0.61	4.38	23.8	26.2	72	5.8	11.9	4.4	<0.5	<5	10	11.9	1.58
615611	Rock	0.05	13.1	3	0.52	1539	0.149	8.10	3.37	2.40	<0.5	19.6	24	0.7	9.2	5.4	<0.5	<5	6	7.4	<0.05
615612	Rock	0.08	14.1	5	0.78	1914	0.232	8.19	3.38	1.68	<0.5	8.8	27	1.2	13.9	6.9	<0.5	<5	8	9.2	<0.05
615613	Rock	0.08	18.3	4	0.73	643	0.247	9.11	3.79	1.61	<0.5	19.8	33	1.2	10.5	8.4	0.5	<5	9	12.0	<0.05
615614	Rock	0.08	17.1	4	0.86	1369	0.253	8.80	3.57	1.40	<0.5	8.1	29	1.0	19.6	7.5	0.6	<5	8	12.0	<0.05
615615	Rock	0.11	31.0	4	0.84	1732	0.269	8.33	2.75	2.94	<0.5	10.6	45	1.6	15.9	9.0	0.5	<5	9	11.8	<0.05
615616	Rock	0.07	19.7	3	0.52	679	0.205	8.16	2.87	2.41	<0.5	15.9	31	0.8	12.2	7.2	<0.5	<5	7	9.5	<0.05
615617	Rock	0.09	21.1	6	0.54	1863	0.261	9.11	3.42	1.91	<0.5	12.8	39	1.4	17.8	7.8	0.6	<5	9	10.9	<0.05
615618	Rock	0.10	22.8	2	0.82	1401	0.260	7.90	2.66	2.58	<0.5	12.7	39	1.4	13.6	8.4	0.5	<5	7	11.8	<0.05
615619	Rock	0.10	18.3	4	0.80	2263	0.243	7.97	2.66	3.02	<0.5	22.0	35	1.0	11.4	7.2	<0.5	<5	7	11.2	<0.05
615620	Rock Pulp	0.09	28.6	39	0.72	1124	0.257	8.39	2.79	3.22	<0.5	8.6	55	1.7	14.8	20.7	1.4	<5	6	38.2	<0.05
615621	Rock	0.09	17.7	16	0.73	1755	0.255	7.65	2.59	2.73	<0.5	19.9	33	1.1	12.1	6.8	<0.5	<5	8	10.5	<0.05
615622	Rock	0.09	18.7	13	0.70	1578	0.246	7.55	2.55	2.57	<0.5	25.9	34	0.9	10.8	6.8	<0.5	<5	8	11.8	<0.05
615623	Rock	0.10	22.5	11	0.79	1410	0.271	7.75	2.67	2.31	<0.5	20.9	41	1.6	14.1	8.1	<0.5	<5	8	12.4	<0.05
615624	Rock	0.12	27.0	13	0.83	1488	0.303	7.94	2.63	2.47	<0.5	26.3	46	1.4	18.0	8.6	<0.5	<5	9	12.4	<0.05
615625	Rock	0.13	30.7	5	1.00	1519	0.317	8.38	2.70	2.54	<0.5	13.7	52	1.7	19.2	9.5	0.5	<5	9	11.4	<0.05
615626	Rock	0.11	18.7	7	0.80	1501	0.272	7.75	2.76	2.43	<0.5	15.6	37	1.4	13.3	8.3	<0.5	<5	8	12.2	<0.05
615627	Rock	0.08	16.2	5	0.58	2201	0.238	8.67	3.21	2.24	<0.5	8.3	35	0.6	7.0	6.1	<0.5	<5	5	8.6	<0.05
615628	Rock	0.10	11.1	6	0.79	1639	0.270	8.11	2.90	2.31	<0.5	14.9	30	0.8	8.0	7.1	<0.5	<5	7	10.3	<0.05
615629	Rock	0.10	16.0	8	0.67	1852	0.276	8.26	2.73	2.69	<0.5	12.3	33	0.7	8.3	7.7	<0.5	<5	7	10.0	<0.05
615630	Rock Pulp	0.06	46.6	95	0.75	890	0.179	7.42	0.60	4.31	24.1	27.4	75	5.3	11.9	3.3	<0.5	<5	12	12.1	1.55



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CERTIFICATE OF ANALYSIS

WHI15000130.1

		Method	MA270	MA270	MA270	GC921
		Analyte	Rb	Hf	Se	Cu/Ox
		Unit	ppm	ppm	ppm	%
		MDL	0.5	0.5	5	0.001
615601	Rock		46.5	<0.5	<5	0.002
615602	Rock		43.7	<0.5	<5	0.041
615603	Rock		45.2	<0.5	<5	0.056
615604	Rock		44.3	<0.5	<5	0.131
615605	Rock		64.2	0.7	<5	0.026
615606	Rock		58.2	0.5	<5	0.018
615607	Rock		29.6	<0.5	<5	0.002
615608	Rock		32.7	<0.5	<5	0.002
615609	Rock		48.9	<0.5	<5	0.009
615610	Rock Pulp		164.5	0.9	<5	0.085
615611	Rock		60.0	0.8	<5	0.003
615612	Rock		35.1	<0.5	<5	0.002
615613	Rock		62.3	0.6	<5	0.004
615614	Rock		38.2	<0.5	<5	0.006
615615	Rock		80.1	<0.5	<5	0.231
615616	Rock		74.7	0.8	<5	0.033
615617	Rock		56.3	<0.5	<5	0.003
615618	Rock		78.8	0.5	<5	0.045
615619	Rock		75.5	0.6	<5	0.021
615620	Rock Pulp		126.9	0.6	<5	<0.001
615621	Rock		71.7	0.9	<5	0.013
615622	Rock		75.8	0.8	<5	0.016
615623	Rock		72.0	0.7	<5	0.019
615624	Rock		85.3	0.8	<5	0.034
615625	Rock		88.9	0.6	<5	0.034
615626	Rock		73.7	0.7	<5	0.029
615627	Rock		57.6	<0.5	<5	0.123
615628	Rock		64.3	0.6	<5	0.166
615629	Rock		77.5	<0.5	<5	0.420
615630	Rock Pulp		171.1	1.0	<5	0.085



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	Method Analyte Unit MDL	WGHT	FA430	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270
		Wgt	Au	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	ppm	%
		0.01	0.005	0.5	0.5	0.5	5	0.5	0.5	1	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01
615631	Rock	4.76	0.314	1.0	5199.4	30.5	141	3.0	2.7	7	1497	3.18	<5	1.2	8.7	656	<0.5	<0.5	2.0	85	1.96
615632	Rock	2.25	0.117	<0.5	2470.9	18.6	73	1.4	2.0	7	554	3.00	<5	1.0	8.4	746	<0.5	<0.5	0.6	80	2.15
615633	Rock	2.04	0.140	<0.5	2906.8	15.4	106	1.4	2.3	8	588	3.54	<5	0.8	6.7	749	<0.5	<0.5	0.9	89	1.91
615634	Rock	4.60	0.016	<0.5	770.3	14.5	70	<0.5	2.9	7	683	2.47	<5	1.5	3.6	774	<0.5	<0.5	<0.5	62	2.06
615635	Rock	4.25	<0.005	0.5	201.0	11.7	69	<0.5	4.2	8	739	2.63	<5	0.8	2.4	1028	<0.5	<0.5	<0.5	73	2.40
615636	Rock	5.13	0.024	1.5	2040.1	9.7	98	0.9	4.1	11	658	3.51	<5	0.9	4.5	973	<0.5	<0.5	0.5	108	2.40
615637	Rock	3.57	0.028	1.6	1874.5	9.4	89	0.9	3.5	11	633	3.56	<5	0.9	4.9	783	<0.5	<0.5	<0.5	109	2.34
615638	Rock	3.45	0.021	1.4	1838.5	8.7	71	0.7	3.4	9	563	3.00	<5	0.5	4.4	580	<0.5	<0.5	<0.5	95	2.36
615639	Rock	4.20	0.008	2.0	647.5	10.0	74	<0.5	3.2	9	645	3.03	<5	0.8	4.4	738	<0.5	<0.5	<0.5	85	2.25
615640	Rock Pulp	0.06	<0.005	0.8	6.5	21.7	57	<0.5	4.9	5	839	2.41	<5	4.1	8.3	789	<0.5	<0.5	<0.5	52	2.51
615641	Rock	3.64	0.017	1.8	1349.9	9.1	83	<0.5	4.0	12	666	3.56	<5	0.8	5.3	794	<0.5	<0.5	<0.5	100	2.19
615642	Rock	3.93	0.010	1.8	1248.5	8.4	58	<0.5	2.7	13	439	3.40	<5	1.0	6.5	469	<0.5	<0.5	<0.5	94	2.24
615643	Rock	5.68	<0.005	1.9	90.6	11.9	57	<0.5	2.0	6	601	2.25	<5	1.1	3.4	427	<0.5	<0.5	<0.5	61	3.00
615644	Rock	3.55	<0.005	1.8	105.0	11.1	64	<0.5	2.2	8	633	2.56	<5	0.8	2.7	573	<0.5	<0.5	<0.5	73	3.30
615645	Rock	3.41	<0.005	<0.5	50.8	11.2	64	<0.5	3.2	8	826	3.00	<5	1.2	2.7	884	<0.5	<0.5	<0.5	78	2.88
615646	Rock	3.11	<0.005	<0.5	187.3	12.9	67	<0.5	2.2	6	729	2.58	<5	1.3	4.0	853	<0.5	<0.5	<0.5	68	2.23
615647	Rock	3.13	<0.005	<0.5	390.5	11.8	78	<0.5	3.1	9	960	3.24	<5	1.1	2.4	905	<0.5	<0.5	<0.5	82	2.87
615648	Rock	4.05	0.005	<0.5	480.9	11.6	74	<0.5	2.8	8	859	2.92	<5	1.3	3.2	882	<0.5	<0.5	<0.5	77	2.63
615649	Rock	4.89	<0.005	<0.5	263.3	12.2	64	<0.5	2.2	8	817	2.83	<5	1.1	3.0	869	<0.5	<0.5	<0.5	74	2.81
615651	Rock	2.20	<0.005	<0.5	244.4	19.8	43	<0.5	1.7	5	566	1.93	<5	1.8	2.5	516	<0.5	<0.5	<0.5	49	1.86
615652	Rock	4.35	<0.005	<0.5	93.5	22.9	21	<0.5	1.0	2	297	0.99	<5	1.2	1.5	338	<0.5	<0.5	<0.5	17	0.95
615653	Rock	3.93	<0.005	<0.5	66.5	24.1	9	<0.5	<0.5	<1	212	0.45	<5	1.3	1.4	203	<0.5	<0.5	<0.5	<10	0.41
615654	Rock	2.40	0.008	<0.5	505.5	12.3	79	<0.5	2.5	9	619	2.78	<5	1.2	7.1	617	<0.5	<0.5	<0.5	79	1.97
615655	Rock	3.15	0.015	<0.5	1115.4	11.7	78	<0.5	3.7	10	710	2.89	<5	1.2	7.4	671	<0.5	<0.5	<0.5	87	1.99
615656	Rock	4.32	0.016	<0.5	958.3	9.1	64	<0.5	3.5	10	701	3.28	<5	1.1	8.0	683	<0.5	<0.5	<0.5	82	1.83
615657	Rock	3.40	0.010	<0.5	613.5	9.7	72	<0.5	4.6	8	666	2.82	<5	0.8	5.2	757	<0.5	<0.5	<0.5	68	2.02
615658	Rock	3.62	0.006	<0.5	328.2	9.7	96	<0.5	3.3	13	1056	4.17	<5	0.9	7.0	855	<0.5	<0.5	<0.5	114	3.46
615659	Rock	3.92	0.030	<0.5	936.0	11.8	77	<0.5	2.7	8	659	3.09	<5	0.7	5.3	844	<0.5	<0.5	<0.5	93	2.73
615660	Rock	3.26	0.038	0.5	1871.2	12.0	65	0.6	3.1	7	508	2.60	<5	0.7	5.8	782	<0.5	<0.5	0.6	88	2.14
615661	Rock	5.93	0.029	<0.5	1788.8	11.4	109	0.7	4.2	13	1058	4.28	<5	1.1	5.3	924	<0.5	<0.5	<0.5	137	3.39



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Project: STU
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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.5	1	0.01	5	0.001	0.01	0.01	0.01	0.5	0.5	5	0.5	0.5	0.5	0.5	5	1	0.5	0.05
615631	Rock	0.10	11.7	4	0.78	1211	0.265	7.83	2.47	3.19	<0.5	17.0	28	0.8	9.2	9.0	<0.5	<5	7	10.4	<0.05
615632	Rock	0.09	9.3	4	0.76	1536	0.259	8.33	2.75	3.04	<0.5	16.2	28	0.7	9.1	8.8	0.5	<5	8	9.9	<0.05
615633	Rock	0.11	13.1	5	0.70	1894	0.276	8.33	2.67	2.65	<0.5	14.3	29	0.9	9.0	7.4	<0.5	<5	8	8.7	<0.05
615634	Rock	0.06	14.3	3	0.60	2159	0.205	8.41	3.29	2.18	<0.5	10.0	31	1.0	11.4	7.6	0.8	<5	7	9.0	<0.05
615635	Rock	0.07	11.0	6	0.87	1018	0.210	9.26	4.06	1.41	<0.5	9.3	20	1.1	12.6	5.0	<0.5	<5	8	14.0	<0.05
615636	Rock	0.14	20.1	7	1.21	1463	0.395	9.35	3.63	1.95	<0.5	6.7	37	1.1	8.3	8.5	<0.5	<5	4	14.8	<0.05
615637	Rock	0.13	22.9	6	1.23	1203	0.367	9.25	3.35	1.86	<0.5	8.7	39	1.6	12.7	9.3	0.5	<5	7	15.3	<0.05
615638	Rock	0.11	21.5	5	0.99	1296	0.310	8.09	2.50	1.70	<0.5	6.8	37	0.9	8.8	6.6	<0.5	<5	4	13.7	<0.05
615639	Rock	0.09	18.8	7	0.91	1381	0.263	8.73	3.35	1.57	<0.5	7.4	31	0.8	9.6	5.8	<0.5	<5	8	11.5	<0.05
615640	Rock Pulp	0.08	30.6	36	0.67	1071	0.239	8.15	2.69	3.08	<0.5	8.2	58	1.2	15.1	20.6	1.4	<5	7	35.6	<0.05
615641	Rock	0.12	23.0	7	1.12	1428	0.345	8.67	3.13	1.74	<0.5	7.4	38	1.4	9.1	8.5	<0.5	<5	5	13.9	<0.05
615642	Rock	0.09	20.3	4	0.70	1771	0.251	7.86	2.25	1.49	<0.5	8.4	37	1.3	9.9	7.3	<0.5	<5	7	10.5	<0.05
615643	Rock	0.06	13.0	4	0.41	2099	0.183	7.82	2.66	1.54	<0.5	8.3	27	0.7	10.2	5.1	<0.5	<5	7	9.6	<0.05
615644	Rock	0.08	10.2	5	0.46	1596	0.228	7.84	3.31	1.57	<0.5	6.9	22	1.0	11.0	6.0	<0.5	<5	9	7.2	<0.05
615645	Rock	0.08	13.6	5	0.86	1753	0.237	8.63	3.42	1.72	<0.5	8.5	28	1.0	14.2	7.2	<0.5	<5	9	10.1	<0.05
615646	Rock	0.07	14.0	7	0.68	2299	0.222	8.70	3.25	2.14	<0.5	15.6	32	1.3	12.2	6.8	0.6	<5	9	9.5	<0.05
615647	Rock	0.10	13.4	6	0.78	1273	0.256	9.14	3.81	1.48	<0.5	9.6	28	1.5	16.2	8.5	0.7	<5	12	9.5	<0.05
615648	Rock	0.08	16.5	5	0.66	1590	0.244	9.07	3.49	1.65	<0.5	7.9	35	1.1	10.8	6.8	<0.5	<5	9	10.2	<0.05
615649	Rock	0.08	14.1	5	0.79	1910	0.220	8.59	3.46	1.81	<0.5	7.8	31	1.5	12.1	5.7	<0.5	<5	8	10.3	<0.05
615651	Rock	0.05	8.7	3	0.47	947	0.147	7.81	3.18	2.59	<0.5	31.2	20	0.8	11.1	6.6	0.5	<5	6	6.8	<0.05
615652	Rock	0.01	4.6	2	0.18	1071	0.061	7.06	2.77	3.42	<0.5	22.7	10	<0.5	5.2	4.2	<0.5	<5	3	3.2	<0.05
615653	Rock	<0.01	4.3	<1	0.04	884	0.025	6.18	2.38	3.70	<0.5	29.8	8	<0.5	5.2	5.1	0.7	<5	1	1.7	<0.05
615654	Rock	0.09	19.9	7	0.82	1218	0.222	7.98	3.38	1.80	<0.5	15.4	32	0.9	10.6	7.1	<0.5	<5	6	9.6	<0.05
615655	Rock	0.11	28.9	7	1.06	1658	0.273	8.16	3.30	2.21	<0.5	12.9	45	1.3	15.2	8.7	0.8	<5	8	13.4	<0.05
615656	Rock	0.10	26.7	7	1.04	1454	0.243	8.12	3.35	1.92	<0.5	13.6	45	1.2	14.2	7.9	<0.5	<5	8	14.2	<0.05
615657	Rock	0.07	19.2	7	0.79	1333	0.200	8.03	3.38	1.77	<0.5	17.5	32	1.0	10.5	6.1	<0.5	<5	8	10.3	<0.05
615658	Rock	0.13	32.1	8	1.54	1131	0.358	8.57	3.12	1.64	<0.5	26.5	57	1.3	16.4	7.2	<0.5	<5	12	11.8	<0.05
615659	Rock	0.11	22.6	5	1.01	1623	0.267	8.50	3.10	2.17	<0.5	8.7	40	1.2	13.3	6.9	<0.5	<5	9	13.3	<0.05
615660	Rock	0.11	26.6	5	0.94	1848	0.263	8.09	2.85	2.48	<0.5	10.3	43	1.2	12.3	7.9	<0.5	<5	7	10.7	<0.05
615661	Rock	0.16	27.9	9	1.50	1230	0.388	9.31	3.34	1.94	<0.5	10.8	47	1.7	18.1	8.6	<0.5	<5	13	14.4	<0.05



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CERTIFICATE OF ANALYSIS

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Method	MA270	MA270	MA270	GC921
Analyte	Rb	Hf	Se	Cu/Ox
Unit	ppm	ppm	ppm	%
MDL	0.5	0.5	5	0.001
615631	Rock	92.9	0.5	<5 0.464
615632	Rock	88.0	0.8	<5 0.215
615633	Rock	75.5	<0.5	<5 0.240
615634	Rock	62.1	<0.5	<5 0.047
615635	Rock	42.7	<0.5	<5 0.011
615636	Rock	81.2	<0.5	<5 0.174
615637	Rock	79.5	<0.5	<5 0.174
615638	Rock	60.2	<0.5	<5 0.168
615639	Rock	58.0	<0.5	<5 0.044
615640	Rock Pulp	123.8	0.6	<5 <0.001
615641	Rock	68.7	<0.5	<5 0.120
615642	Rock	52.4	<0.5	<5 0.101
615643	Rock	43.5	<0.5	<5 0.006
615644	Rock	42.5	<0.5	<5 0.005
615645	Rock	43.1	<0.5	<5 0.003
615646	Rock	52.8	0.6	<5 0.011
615647	Rock	41.2	<0.5	<5 0.022
615648	Rock	44.3	<0.5	<5 0.023
615649	Rock	43.2	<0.5	<5 0.013
615651	Rock	69.6	1.2	<5 0.010
615652	Rock	80.4	0.9	<5 0.004
615653	Rock	89.3	1.4	<5 0.004
615654	Rock	57.6	0.7	<5 0.031
615655	Rock	81.2	0.6	<5 0.067
615656	Rock	63.5	0.5	<5 0.040
615657	Rock	56.2	0.8	<5 0.029
615658	Rock	62.6	0.8	<5 0.010
615659	Rock	66.1	<0.5	<5 0.073
615660	Rock	78.2	<0.5	<5 0.146
615661	Rock	80.1	0.5	<5 0.114



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CERTIFICATE OF ANALYSIS

WHI15000130.1

	Method	WGHT	FA430	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.5	0.5	0.5	5	0.5	0.5	1	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01
615662	Rock	3.99	0.030	0.6	1177.4	11.2	71	0.6	3.9	8	705	3.06	<5	0.8	4.1	839	<0.5	<0.5	<0.5	97	2.78
615663	Rock	4.08	0.023	0.7	1769.1	11.1	82	<0.5	4.4	10	749	3.49	<5	1.2	33.3	852	<0.5	<0.5	0.5	115	2.93
615664	Rock	4.72	0.040	1.0	1987.9	12.6	62	0.8	2.5	7	473	2.47	<5	1.1	32.3	750	<0.5	<0.5	0.6	84	1.91
615665	Rock	5.72	0.036	0.9	2089.0	11.7	86	0.8	4.7	10	702	3.35	<5	1.0	8.6	740	<0.5	<0.5	0.6	111	2.09
615666	Rock	5.98	0.053	1.6	1884.0	15.0	70	1.0	2.9	8	556	2.51	<5	0.9	7.8	631	<0.5	<0.5	0.7	79	1.40
615667	Rock	3.47	0.035	1.3	1541.1	11.9	73	0.8	3.1	9	585	2.85	<5	0.8	6.4	841	<0.5	<0.5	0.5	93	2.21
615668	Rock	5.15	0.045	7.9	2392.7	13.5	58	0.8	3.3	8	476	2.73	<5	1.1	7.0	806	<0.5	<0.5	0.5	94	2.21
615669	Rock	3.85	0.061	8.2	3442.5	13.2	101	1.1	3.9	9	562	2.86	<5	0.9	6.7	801	<0.5	<0.5	0.7	103	2.13
615670	Rock Pulp	0.11	0.959	252.8	3329.2	148.2	195	3.3	14.8	14	360	4.19	62	7.3	13.9	176	2.6	39.8	7.6	92	0.83
615671	Rock	4.49	0.054	3.5	2809.7	12.3	116	1.2	4.4	11	742	3.51	<5	1.0	7.0	794	<0.5	<0.5	0.8	123	2.36
615672	Rock	4.46	0.037	7.2	1795.9	14.8	115	0.7	4.1	9	685	3.29	6	1.0	6.5	777	<0.5	<0.5	<0.5	107	2.29
615673	Rock	3.95	0.021	3.5	1161.4	20.2	100	<0.5	2.3	6	488	2.73	6	0.9	5.3	717	<0.5	<0.5	<0.5	83	1.71
615674	Rock	4.36	0.022	2.8	1266.1	22.3	169	<0.5	4.0	10	805	3.43	<5	1.1	6.9	701	<0.5	<0.5	<0.5	97	2.11
615675	Rock	4.38	0.007	2.3	906.9	12.6	90	<0.5	3.6	7	718	2.62	<5	0.7	3.1	858	<0.5	<0.5	<0.5	71	2.66
615676	Rock	1.50	0.014	1.2	351.1	23.4	100	<0.5	2.2	9	1022	3.01	8	2.5	5.5	435	<0.5	<0.5	<0.5	97	2.04
615677	Rock	1.37	0.082	2.0	1223.2	22.0	132	1.1	2.4	10	1182	2.89	12	2.7	5.9	425	<0.5	<0.5	0.7	77	2.11
615678	Rock	4.30	<0.005	0.8	93.7	19.5	151	<0.5	2.8	8	975	3.12	<5	1.7	6.4	743	<0.5	<0.5	<0.5	78	2.25
615679	Rock	1.31	<0.005	1.2	39.3	12.6	54	<0.5	2.5	9	789	3.16	<5	2.2	7.5	766	<0.5	<0.5	<0.5	83	2.29
615680	Rock Pulp	0.12	1.064	228.9	3216.5	143.0	182	3.5	15.9	14	331	4.02	55	7.0	13.4	169	2.9	35.5	6.7	86	0.84
615681	Rock	2.36	<0.005	1.2	23.7	15.8	57	<0.5	4.8	7	706	2.60	<5	2.0	5.4	465	<0.5	<0.5	<0.5	79	2.53
615682	Rock	2.17	<0.005	1.8	108.1	16.3	82	<0.5	3.9	10	1028	3.01	<5	1.8	7.5	325	<0.5	<0.5	<0.5	74	2.40



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CERTIFICATE OF ANALYSIS

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	Method	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.5	1	0.01	5	0.001	0.01	0.01	0.01	0.5	0.5	5	0.5	0.5	0.5	0.5	5	1	0.5	0.05
615662	Rock	0.10	19.8	5	1.04	1580	0.280	8.69	3.20	1.86	<0.5	8.1	35	1.1	15.1	7.7	<0.5	<5	9	10.2	<0.05
615663	Rock	0.14	31.7	5	1.23	1657	0.359	8.37	3.05	2.17	<0.5	9.2	55	1.6	19.4	10.5	0.5	<5	11	12.0	<0.05
615664	Rock	0.11	30.2	4	0.96	1707	0.265	8.29	2.90	2.63	<0.5	10.5	47	0.6	10.6	7.1	<0.5	<5	6	11.4	<0.05
615665	Rock	0.14	33.9	6	1.23	1823	0.343	8.60	2.74	2.59	<0.5	10.6	55	1.2	13.3	8.7	<0.5	<5	9	15.1	<0.05
615666	Rock	0.10	27.5	6	0.80	2606	0.251	8.08	2.07	3.19	<0.5	9.9	44	0.7	8.7	5.5	<0.5	<5	5	9.3	<0.05
615667	Rock	0.13	20.2	6	1.11	1674	0.299	8.90	3.09	2.30	<0.5	11.0	38	0.9	10.3	7.5	<0.5	<5	6	11.5	<0.05
615668	Rock	0.12	27.2	6	1.04	1613	0.289	8.42	2.89	2.49	<0.5	12.4	44	1.2	13.2	8.2	<0.5	<5	7	11.7	<0.05
615669	Rock	0.13	28.0	5	1.17	2368	0.325	8.38	2.70	2.86	<0.5	8.3	47	1.3	14.0	7.7	<0.5	<5	8	11.8	<0.05
615670	Rock Pulp	0.07	48.3	91	0.74	1011	0.176	7.30	0.61	4.29	25.2	25.8	75	7.7	11.7	3.8	<0.5	<5	10	13.4	1.54
615671	Rock	0.15	27.3	6	1.30	1783	0.380	8.74	3.08	2.33	<0.5	8.1	46	1.4	13.8	9.7	<0.5	<5	9	14.6	<0.05
615672	Rock	0.12	26.7	8	1.11	1495	0.324	8.53	3.19	2.25	<0.5	11.5	46	1.3	12.2	9.2	<0.5	<5	9	14.4	<0.05
615673	Rock	0.09	17.1	4	0.78	1919	0.229	8.13	2.73	3.15	<0.5	11.5	33	1.2	9.7	6.8	<0.5	<5	6	9.6	<0.05
615674	Rock	0.11	22.9	6	0.98	1444	0.300	8.25	3.05	2.34	<0.5	16.8	40	1.3	10.0	8.7	<0.5	<5	7	13.7	<0.05
615675	Rock	0.07	19.2	6	0.75	2012	0.231	8.60	3.50	1.74	<0.5	7.6	31	0.8	13.0	6.5	<0.5	<5	8	10.2	<0.05
615676	Rock	0.08	24.8	5	0.88	1448	0.227	8.41	3.20	2.71	1.2	15.6	44	1.5	14.5	9.6	0.7	<5	7	19.5	<0.05
615677	Rock	0.09	18.6	5	0.68	1607	0.232	8.46	3.32	2.54	0.7	13.7	33	1.2	13.4	8.3	0.5	<5	7	16.8	<0.05
615678	Rock	0.10	16.6	<1	0.77	1696	0.237	7.43	2.86	2.92	<0.5	18.7	33	1.0	10.8	8.2	0.6	<5	8	12.8	<0.05
615679	Rock	0.10	18.8	1	0.87	1603	0.248	7.88	2.93	3.01	<0.5	12.2	38	0.8	14.1	9.0	0.6	<5	7	11.6	<0.05
615680	Rock Pulp	0.06	46.0	96	0.72	914	0.164	7.30	0.59	4.19	23.8	23.3	74	6.1	11.6	3.1	<0.5	<5	11	12.5	1.44
615681	Rock	0.10	12.1	3	0.40	1401	0.235	7.38	2.72	2.74	0.7	14.9	29	1.1	11.0	9.2	0.6	<5	7	14.9	<0.05
615682	Rock	0.09	21.6	6	0.49	1013	0.224	7.84	2.27	2.19	0.8	14.0	35	0.9	14.6	8.4	0.5	<5	7	21.5	<0.05



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CERTIFICATE OF ANALYSIS

WHI15000130.1

Method	MA270	MA270	MA270	GC921
Analyte	Rb	Hf	Se	Cu/Ox
Unit	ppm	ppm	ppm	%
MDL	0.5	0.5	5	0.001
615662	Rock	52.2	<0.5	<5 0.082
615663	Rock	71.9	<0.5	<5 0.132
615664	Rock	84.3	0.5	<5 0.166
615665	Rock	96.0	<0.5	<5 0.165
615666	Rock	93.4	<0.5	<5 0.153
615667	Rock	75.9	<0.5	<5 0.132
615668	Rock	86.5	<0.5	<5 0.205
615669	Rock	88.4	<0.5	<5 0.306
615670	Rock Pulp	173.7	0.9	<5 0.083
615671	Rock	86.6	<0.5	<5 0.227
615672	Rock	84.2	<0.5	<5 0.142
615673	Rock	91.5	<0.5	<5 0.088
615674	Rock	89.6	0.6	<5 0.080
615675	Rock	45.1	<0.5	<5 0.048
615676	Rock	95.7	0.7	<5 0.023
615677	Rock	78.1	0.6	<5 0.109
615678	Rock	73.2	0.8	<5 0.004
615679	Rock	76.0	0.7	<5 0.002
615680	Rock Pulp	165.6	0.8	<5 0.082
615681	Rock	73.8	0.6	<5 <0.001
615682	Rock	73.6	0.7	<5 0.003



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QUALITY CONTROL REPORT

WHI15000130.1

	Method Analyte Unit MDL	WGHT	FA430	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270
		Wgt	Au	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	ppm	%
		0.01	0.005	0.5	0.5	0.5	5	0.5	0.5	1	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01
Pulp Duplicates																					
615613	Rock	4.31	<0.005	<0.5	87.7	12.8	75	<0.5	2.8	8	716	3.24	<5	1.3	3.7	582	<0.5	<0.5	<0.5	81	1.35
REP 615613	QC			<0.5	85.5	12.3	72	<0.5	3.0	8	667	3.25	<5	1.3	3.7	577	<0.5	<0.5	<0.5	81	1.34
615624	Rock	4.43	0.013	0.7	774.8	21.8	147	<0.5	7.1	13	940	3.78	<5	1.2	9.5	679	<0.5	<0.5	<0.5	100	2.10
REP 615624	QC		0.011																		
615627	Rock	5.02	0.048	<0.5	1934.4	12.8	93	0.6	2.3	6	691	2.62	<5	0.7	3.8	820	<0.5	<0.5	<0.5	68	2.05
REP 615627	QC																				
615649	Rock	4.89	<0.005	<0.5	263.3	12.2	64	<0.5	2.2	8	817	2.83	<5	1.1	3.0	869	<0.5	<0.5	<0.5	74	2.81
REP 615649	QC			<0.5	248.0	11.3	58	<0.5	3.3	7	794	2.83	<5	1.0	2.7	780	<0.5	<0.5	<0.5	70	2.61
615663	Rock	4.08	0.023	0.7	1769.1	11.1	82	<0.5	4.4	10	749	3.49	<5	1.2	33.3	852	<0.5	<0.5	0.5	115	2.93
REP 615663	QC		0.021																		
615681	Rock	2.36	<0.005	1.2	23.7	15.8	57	<0.5	4.8	7	706	2.60	<5	2.0	5.4	465	<0.5	<0.5	<0.5	79	2.53
REP 615681	QC			1.0	21.5	15.8	55	<0.5	3.0	8	713	2.62	6	1.1	4.9	453	<0.5	<0.5	<0.5	83	2.48
615682	Rock	2.17	<0.005	1.8	108.1	16.3	82	<0.5	3.9	10	1028	3.01	<5	1.8	7.5	325	<0.5	<0.5	<0.5	74	2.40
REP 615682	QC			1.6	103.2	15.0	81	<0.5	3.1	9	965	2.90	<5	1.8	7.0	310	<0.5	<0.5	<0.5	72	2.30
Core Reject Duplicates																					
615655	Rock	3.15	0.015	<0.5	1115.4	11.7	78	<0.5	3.7	10	710	2.89	<5	1.2	7.4	671	<0.5	<0.5	<0.5	87	1.99
DUP 615655	QC		0.015	<0.5	1019.2	11.7	80	<0.5	4.4	10	727	3.02	<5	1.2	7.0	675	<0.5	<0.5	<0.5	87	2.00
Reference Materials																					
STD CPZO-1_5PER	Standard																				
STD CPZO-1_5PER	Standard																				
STD CPZO-1_5PER	Standard																				
STD GBM398-4-MA	Standard			909.3	3809.3	11006.8	5265	48.1	4028.7	1896	5240	4.70	<5	0.9	1.1	50	7.9	10.6	11.6	71	1.25
STD GBM398-4-MA	Standard			882.8	4012.3	11854.6	5524	49.9	4166.8	1895	5417	4.85	8	0.9	1.3	53	8.6	10.4	12.2	75	1.31
STD GBM398-4-MA	Standard			946.9	4018.6	11437.4	5624	48.9	4184.8	2068	5777	5.27	7	1.0	1.3	55	7.3	11.0	12.1	62	1.37
STD GBM398-4-MA	Standard			888.6	3994.4	11289.5	5691	49.4	4111.8	1983	5497	5.11	9	0.7	1.2	55	8.9	10.0	11.3	64	1.32
STD OREAS901	Standard																				
STD OREAS901	Standard																				
STD OREAS901	Standard																				



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.5	1	0.01	5	0.001	0.01	0.01	0.01	0.5	0.5	5	0.5	0.5	0.5	0.5	5	1	0.5
Pulp Duplicates																				
615613	Rock	0.08	18.3	4	0.73	643	0.247	9.11	3.79	1.61	<0.5	19.8	33	1.2	10.5	8.4	0.5	<5	9	12.0
REP 615613	QC	0.08	17.7	5	0.73	649	0.244	9.02	3.75	1.59	<0.5	18.9	32	1.1	10.9	8.0	<0.5	<5	9	10.9
615624	Rock	0.12	27.0	13	0.83	1488	0.303	7.94	2.63	2.47	<0.5	26.3	46	1.4	18.0	8.6	<0.5	<5	9	12.4
REP 615624	QC																			
615627	Rock	0.08	16.2	5	0.58	2201	0.238	8.67	3.21	2.24	<0.5	8.3	35	0.6	7.0	6.1	<0.5	<5	5	8.6
REP 615627	QC																			
615649	Rock	0.08	14.1	5	0.79	1910	0.220	8.59	3.46	1.81	<0.5	7.8	31	1.5	12.1	5.7	<0.5	<5	8	10.3
REP 615649	QC	0.08	13.7	7	0.81	1984	0.229	8.94	3.20	1.87	<0.5	8.1	29	1.0	11.7	6.0	<0.5	<5	8	9.4
615663	Rock	0.14	31.7	5	1.23	1657	0.359	8.37	3.05	2.17	<0.5	9.2	55	1.6	19.4	10.5	0.5	<5	11	12.0
REP 615663	QC																			
615681	Rock	0.10	12.1	3	0.40	1401	0.235	7.38	2.72	2.74	0.7	14.9	29	1.1	11.0	9.2	0.6	<5	7	14.9
REP 615681	QC	0.09	10.5	2	0.40	1426	0.236	6.78	2.71	2.74	0.6	16.5	27	1.4	10.1	8.6	0.7	<5	6	14.5
615682	Rock	0.09	21.6	6	0.49	1013	0.224	7.84	2.27	2.19	0.8	14.0	35	0.9	14.6	8.4	0.5	<5	7	21.5
REP 615682	QC	0.09	20.5	5	0.47	964	0.214	7.49	2.17	2.11	0.8	15.0	33	1.1	14.2	8.2	0.5	<5	8	23.9
Core Reject Duplicates																				
615655	Rock	0.11	28.9	7	1.06	1658	0.273	8.16	3.30	2.21	<0.5	12.9	45	1.3	15.2	8.7	0.8	<5	8	13.4
DUP 615655	QC	0.10	27.9	8	1.06	1614	0.270	8.19	3.35	2.16	<0.5	12.7	45	1.2	14.5	8.8	0.7	<5	8	11.8
Reference Materials																				
STD CPZO-1_5PER	Standard																			
STD CPZO-1_5PER	Standard																			
STD CPZO-1_5PER	Standard																			
STD GBM398-4-MA	Standard	0.05	3.7	1533	0.54	42	0.224	5.02	1.47	3.14	4.2	116.1	9	6.2	7.4	2.1	<0.5	<5	7	7.5
STD GBM398-4-MA	Standard	0.05	4.1	1575	0.56	47	0.235	5.26	1.56	3.26	4.4	112.2	9	6.8	7.9	2.1	<0.5	<5	8	6.7
STD GBM398-4-MA	Standard	0.05	4.6	1751	0.57	47	0.244	5.19	1.57	3.34	4.4	225.2	9	6.0	7.9	2.2	<0.5	<5	8	7.6
STD GBM398-4-MA	Standard	0.05	3.5	1556	0.56	43	0.235	4.86	1.55	3.32	4.4	78.0	9	5.8	7.3	1.9	<0.5	<5	7	7.6
STD OREAS901	Standard																			
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QUALITY CONTROL REPORT

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Method		MA270	MA270	MA270	GC921
Analyte		Rb	Hf	Se	Cu/Ox
Unit		ppm	ppm	ppm	%
MDL		0.5	0.5	5	0.001
Pulp Duplicates					
615613	Rock	62.3	0.6	<5	0.004
REP 615613	QC	62.7	0.9	<5	
615624	Rock	85.3	0.8	<5	0.034
REP 615624	QC				
615627	Rock	57.6	<0.5	<5	0.123
REP 615627	QC				0.120
615649	Rock	43.2	<0.5	<5	0.013
REP 615649	QC	42.5	<0.5	<5	
615663	Rock	71.9	<0.5	<5	0.132
REP 615663	QC				0.131
615681	Rock	73.8	0.6	<5	<0.001
REP 615681	QC	72.3	0.9	<5	
615682	Rock	73.6	0.7	<5	0.003
REP 615682	QC	71.1	0.6	<5	0.003
Core Reject Duplicates					
615655	Rock	81.2	0.6	<5	0.067
DUP 615655	QC	77.4	<0.5	<5	0.062
Reference Materials					
STD CPZO-1_5PER	Standard				0.263
STD CPZO-1_5PER	Standard				0.260
STD CPZO-1_5PER	Standard				0.259
STD GBM398-4-MA	Standard	698.1	2.4	<5	
STD GBM398-4-MA	Standard	750.2	1.9	<5	
STD GBM398-4-MA	Standard	786.7	2.2	<5	
STD GBM398-4-MA	Standard	751.5	1.9	<5	
STD OREAS901	Standard				0.084
STD OREAS901	Standard				0.085
STD OREAS901	Standard				0.083



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QUALITY CONTROL REPORT

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		WGHT	FA430	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270
		Wgt	Au	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	ppm	%
		0.01	0.005	0.5	0.5	0.5	5	0.5	0.5	1	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01
STD OREAS927-MA	Standard			1.0	10640.2	226.3	781	3.2	33.6	30	1307	8.10	8	2.9	14.9	25	0.8	2.0	59.0	79	0.36
STD OREAS927-MA	Standard			1.9	10859.0	241.3	830	5.3	33.6	31	1284	8.11	12	2.9	15.8	32	1.3	3.6	62.4	82	0.39
STD OREAS927-MA	Standard			0.8	10731.4	245.8	805	3.6	33.4	31	1318	8.61	10	2.9	16.0	26	1.0	1.8	62.3	81	0.40
STD OREAS927-MA	Standard			1.1	10900.2	226.5	827	4.0	29.8	30	1229	8.29	9	2.6	12.2	30	0.8	1.8	60.5	79	0.39
STD OXD108	Standard		0.418																		
STD OXD108	Standard		0.420																		
STD OXI121	Standard		1.887																		
STD OXI121	Standard		1.830																		
STD OXN117	Standard		7.534																		
STD OXN117	Standard		7.789																		
STD CPZO-1_5PER																					
STD OREAS901 Expected																					
STD OXD108 Expected			0.414																		
STD OXN117 Expected			7.679																		
STD OXI121 Expected			1.834																		
STD GBM398-4-MA				900	3930	11645	5212	49.7	4110	2000	5300	5.05	7	0.8	1.1	53	7.9	9.52	10.9	61	1.27
STD OREAS927-MA				1.06	10800	231	798	4.6	33.3	31	1217	8.56	9.2	2.7	14.4	29.3	1.1	1.9	62.7	77	0.4
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank			<0.5	1.2	<0.5	<5	<0.5	<0.5	<1	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<10	<0.01
BLK	Blank			<0.5	1.1	<0.5	<5	<0.5	<0.5	<1	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<10	<0.01
BLK	Blank			<0.5	2.5	1.5	<5	<0.5	0.6	<1	<5	<0.01	<5	1.0	<0.5	<5	<0.5	<0.5	<0.5	<10	<0.01
Prep Wash																					
ROCK-WHI	Prep Blank		<0.005	0.7	7.5	5.1	53	<0.5	1.1	4	314	2.13	<5	1.3	3.2	212	<0.5	<0.5	<0.5	38	1.62



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

Client:

Midnight Mining

Box 31347

Whitehorse YT Y1A 5P7 CANADA

Project:

STU

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QUALITY CONTROL REPORT

WHI15000130.1

		MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.5	1	0.01	5	0.001	0.01	0.01	0.01	0.5	0.5	5	0.5	0.5	0.5	0.5	5	1	0.5	0.05
STD OREAS927-MA	Standard	0.05	40.9	63	2.13	306	0.303	6.35	0.18	1.78	8.1	90.2	77	23.1	18.0	10.0	0.8	<5	10	34.4	1.52
STD OREAS927-MA	Standard	0.05	42.6	62	2.18	322	0.316	6.48	0.17	1.86	7.9	92.8	78	25.4	20.1	10.8	0.9	<5	11	33.1	1.54
STD OREAS927-MA	Standard	0.05	42.2	58	2.11	314	0.309	6.33	0.19	1.89	8.3	89.7	77	22.9	18.8	10.4	0.9	<5	11	38.3	1.64
STD OREAS927-MA	Standard	0.05	31.7	58	2.08	286	0.311	6.09	0.18	1.82	7.3	92.7	67	21.2	17.1	9.8	0.9	<5	9	34.4	1.55
STD OXD108	Standard																				
STD OXD108	Standard																				
STD OXI121	Standard																				
STD OXI121	Standard																				
STD OXN117	Standard																				
STD OXN117	Standard																				
STD CPZO-1_5PER																					
STD OREAS901 Expected																					
STD OXD108 Expected																					
STD OXN117 Expected																					
STD OXI121 Expected																					
STD GBM398-4-MA		0.047	4	1570	0.55	45	0.229	5.08	1.54	3.26	4	113	9	5.8	7.5	2	0.2		7.16	7	0.92
STD OREAS927-MA		0.053	40.2	63	2.11	314	0.314	6.45	0.173	1.87	8.1	94	76	22.3	19.2	11	0.86	1.8	11	35.1	1.54
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.01	<0.5	<1	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<5	<1	<0.5	<0.05
BLK	Blank	<0.01	<0.5	<1	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<5	<1	<0.5	<0.05
BLK	Blank	<0.01	<0.5	<1	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<5	<1	<0.5	<0.05
Prep Wash																					
ROCK-WHI	Prep Blank	0.05	15.7	<1	0.54	864	0.206	6.85	3.30	1.77	0.5	58.6	29	<0.5	16.4	5.6	<0.5	<5	8	3.4	<0.05



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QUALITY CONTROL REPORT

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		MA270 Rb ppm 0.5	MA270 Hf ppm 0.5	MA270 Se ppm 5	GC921 Cu/Ox % 0.001
STD OREAS927-MA	Standard	118.9	2.2	18	
STD OREAS927-MA	Standard	125.8	2.5	18	
STD OREAS927-MA	Standard	114.5	2.7	16	
STD OREAS927-MA	Standard	92.2	2.7	17	
STD OXD108	Standard				
STD OXD108	Standard				
STD OXI121	Standard				
STD OXI121	Standard				
STD OXN117	Standard				
STD OXN117	Standard				
STD CPZO-1_5PER					0.26
STD OREAS901 Expected					0.083
STD OXD108 Expected					
STD OXN117 Expected					
STD OXI121 Expected					
STD GBM398-4-MA		731	2.8		
STD OREAS927-MA		121	2.73	16	
BLK	Blank				
BLK	Blank				
BLK	Blank				<0.001
BLK	Blank				<0.001
BLK	Blank				<0.001
BLK	Blank				
BLK	Blank				
BLK	Blank	<0.5	<0.5	<5	
BLK	Blank	<0.5	<0.5	<5	
BLK	Blank	<0.5	<0.5	<5	
Prep Wash					
ROCK-WHI	Prep Blank	35.8	2.0	<5	<0.001



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QUALITY CONTROL REPORT

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		WGHT	FA430	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270
		Wgt	Au	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	ppm	%
		0.01	0.005	0.5	0.5	0.5	5	0.5	0.5	1	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01
ROCK-WHI	Prep Blank		<0.005	<0.5	6.2	7.4	48	<0.5	1.3	4	734	2.13	<5	1.4	3.1	210	<0.5	<0.5	<0.5	36	1.50



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		MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	MA270	
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.5	1	0.01	5	0.001	0.01	0.01	0.01	0.5	0.5	5	0.5	0.5	0.5	0.5	5	1	0.5	0.05
ROCK-WHI	Prep Blank	0.04	16.5	<1	0.49	922	0.203	6.88	3.33	1.90	<0.5	60.3	29	0.5	15.8	5.8	<0.5	<5	7	2.7	<0.05



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		MA270	MA270	MA270	GC921
		Rb	Hf	Se	Cu/Ox
		ppm	ppm	ppm	%
		0.5	0.5	5	0.001
ROCK-WHI	Prep Blank	37.7	2.1	<5	<0.001