



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: Midnight Mining
Box 31347
Whitehorse Yukon Y1A 5P7 Canada

Submitted By: Debbie James
Receiving Lab: Canada-Whitehorse
Received: September 26, 2016
Report Date: October 05, 2016
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI16000309.1

CLIENT JOB INFORMATION

Project: SPY
Shipment ID:
P.O. Number
Number of Samples: 12

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days
RTRN-RJT Return After 90 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: Midnight Mining
Box 31347
Whitehorse Yukon Y1A 5P7
Canada

CC: Jean Pautler
Bill Harris
Graham Davidson

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS230	12	Dry at 60C sieve 100g to -230 mesh			WHI
SVRJT	12	Save all or part of Soil Reject			WHI
AQ251_EXT	12	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
SHP01	12	Per sample shipping charges for branch shipments			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

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
1501254	Soil	27.42	457.28	20.01	662.7	674	148.0	181.6	2133	16.50	0.9	1.2	4.5	2.0	94.7	2.11	0.24	0.80	200	6.42	0.068
1501255	Soil	1.65	344.17	15.72	136.5	435	575.7	79.8	1035	6.15	8.4	0.4	11.6	1.1	31.4	0.36	0.41	0.16	55	0.82	0.059
1501256	Soil	1.52	181.64	15.39	95.9	287	496.3	69.5	1105	6.20	4.4	0.2	35.2	0.7	72.7	0.18	0.37	0.08	78	2.61	0.052
1501257	Soil	2.49	229.21	12.41	153.0	599	609.7	81.7	1098	6.28	10.9	0.6	6.1	1.6	35.1	0.44	0.73	0.16	64	0.75	0.088
1501258	Soil	0.39	443.48	12.77	104.3	376	800.4	80.2	923	6.31	2.8	0.1	17.4	0.4	28.0	0.20	0.15	0.21	40	1.38	0.035
1501259	Soil	1.81	211.75	13.15	115.8	422	639.9	73.0	973	5.88	7.4	0.4	8.0	1.1	27.8	0.30	0.63	0.09	68	1.03	0.070
1501260	Soil	1.10	553.76	19.23	111.2	568	608.0	81.1	1010	5.58	6.5	0.3	22.1	0.7	30.7	0.39	0.62	0.12	54	1.30	0.041
1501261	Soil	0.71	122.29	3.35	76.3	140	150.6	44.1	853	5.14	3.4	0.2	4.2	0.7	59.2	0.19	0.34	0.03	77	1.28	0.036
1501262	Soil	0.97	562.48	5.66	112.3	696	231.8	65.3	1155	7.24	12.1	0.3	15.6	0.7	23.1	0.24	1.30	0.11	106	1.79	0.039
1501263	Soil	2.49	7239.74	23.92	89.2	11007	1587.1	102.3	834	19.67	19.6	0.4	374.5	0.9	19.8	0.31	2.32	1.97	145	0.58	0.053
1501264	Soil	0.21	133.94	1.32	47.1	52	1503.7	141.8	1034	7.38	2.8	<0.1	4.5	0.3	134.2	0.06	0.58	0.04	22	2.65	0.017
1501267	Soil	0.25	155.45	2.56	64.2	115	59.0	40.4	783	4.63	93.4	0.1	13.0	0.6	35.1	0.14	1.47	<0.02	136	2.02	0.094



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Project: SPY
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CERTIFICATE OF ANALYSIS

WHI16000309.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
1501254	Soil	33.3	93.9	2.87	216.6	0.134	30	3.28	0.076	0.04	0.3	30.8	0.04	0.53	92	7.8	0.21	14.6	1.59	0.3	0.35
1501255	Soil	7.9	216.1	8.15	294.2	0.057	93	2.62	0.018	0.07	<0.1	6.2	0.08	0.05	31	0.8	0.10	6.3	2.57	0.2	0.07
1501256	Soil	5.8	151.7	7.04	235.9	0.081	66	3.68	0.021	0.05	0.1	7.8	0.04	<0.02	23	0.2	0.06	10.4	1.72	0.1	0.15
1501257	Soil	14.8	190.1	6.46	274.0	0.072	34	2.36	0.025	0.08	<0.1	7.9	0.13	0.08	41	1.4	0.10	6.2	1.80	0.1	0.11
1501258	Soil	3.1	276.0	9.82	134.4	0.057	58	2.68	0.014	0.10	<0.1	5.5	0.05	<0.02	15	0.2	0.11	6.9	3.07	0.1	0.04
1501259	Soil	10.4	240.0	6.67	357.4	0.070	90	2.89	0.020	0.06	<0.1	7.6	0.09	0.05	32	0.7	0.08	8.0	2.60	0.1	0.10
1501260	Soil	5.5	268.9	7.24	270.7	0.055	40	2.75	0.017	0.04	<0.1	6.5	0.06	0.07	28	0.8	0.14	6.2	2.26	0.1	0.08
1501261	Soil	3.8	68.1	3.14	69.4	0.060	12	3.08	0.105	0.04	<0.1	7.6	0.03	0.02	24	0.2	<0.02	7.0	1.67	<0.1	0.08
1501262	Soil	3.7	66.1	3.59	1320.0	0.091	97	3.77	0.017	0.05	0.1	11.6	0.11	0.05	42	1.3	0.17	11.3	1.62	0.2	0.13
1501263	Soil	4.1	122.1	3.22	249.4	0.114	10	3.34	0.138	0.07	0.1	13.5	0.72	0.77	196	75.2	6.45	10.2	2.20	0.4	0.16
1501264	Soil	2.4	311.3	12.37	53.4	0.003	22	0.43	0.017	0.02	<0.1	8.8	0.04	<0.02	115	<0.1	0.05	1.3	0.55	0.3	0.11
1501267	Soil	5.4	86.4	1.91	66.3	0.001	27	1.42	0.009	0.05	0.2	26.4	<0.02	0.02	81	0.2	0.07	5.3	3.01	<0.1	0.10



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		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		MDL	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
1501254	Soil	0.08	1.9	3.8	<0.05	7.8	23.60	63.8	0.18	4	0.9	35.3	<10	<2
1501255	Soil	<0.02	5.6	4.4	<0.05	3.0	6.82	16.3	0.03	2	0.2	20.6	16	13
1501256	Soil	<0.02	3.2	3.6	<0.05	5.2	7.23	13.1	0.04	<1	0.4	25.5	24	6
1501257	Soil	0.05	6.4	2.5	<0.05	4.3	11.43	28.4	0.04	1	0.4	20.0	35	13
1501258	Soil	0.02	6.5	5.4	<0.05	1.4	3.09	6.1	0.02	<1	0.1	23.4	17	16
1501259	Soil	0.03	5.4	3.6	<0.05	3.4	9.99	21.8	0.04	1	0.3	25.3	25	11
1501260	Soil	0.02	3.6	4.3	<0.05	2.5	5.01	11.4	0.03	2	0.2	22.7	17	8
1501261	Soil	0.02	2.1	0.5	<0.05	3.1	7.32	8.4	0.02	<1	0.2	17.2	22	4
1501262	Soil	0.03	3.2	0.7	<0.05	4.4	7.15	8.4	0.03	<1	0.2	27.6	72	22
1501263	Soil	0.08	3.9	2.5	<0.05	4.8	6.15	8.9	0.17	4	0.3	19.5	2541	491
1501264	Soil	<0.02	1.3	0.5	<0.05	3.3	3.57	5.6	0.02	<1	0.5	20.0	37	17
1501267	Soil	<0.02	4.0	0.6	<0.05	2.2	15.31	13.1	0.05	<1	0.3	8.7	17	8



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QUALITY CONTROL REPORT

WHI16000309.1

Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Reference Materials																					
STD DS10	Standard	14.83	154.05	147.43	360.2	1988	74.9	12.8	880	2.76	45.7	2.6	69.5	7.4	67.4	2.73	9.77	12.49	42	1.06	0.077
STD OXC129	Standard	1.31	27.99	6.21	40.8	21	78.2	20.6	401	3.02	0.6	0.7	193.4	1.8	177.5	0.05	0.04	<0.02	50	0.65	0.108
STD DS10 Expected		15.1	154.61	150.55	370	2020	74.6	12.9	875	2.7188	46.2	2.59	91.9	7.5	67.1	2.62	9	11.65	43	1.0625	0.0765
STD OXC129 Expected		1.3	28	6.3	42.9	28	79.5	20.3	421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665	0.102
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	0.3	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
Reference Materials																					
STD DS10	Standard	17.6	54.3	0.77	360.1	0.080	7	1.05	0.071	0.33	3.2	3.1	5.11	0.29	276	2.5	5.06	4.5	2.62	<0.1	0.06
STD OXC129	Standard	11.7	50.7	1.52	51.2	0.392	<1	1.53	0.590	0.37	<0.1	1.1	0.04	<0.02	<5	<0.1	<0.02	5.5	0.16	<0.1	0.29
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0755	0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5	2.63	0.08	0.06
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37	0.08	1.1	0.03					5.6	0.16		0.24
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



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Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
Reference Materials														
STD DS10	Standard	1.58	28.2	1.5	<0.05	2.7	7.96	35.4	0.25	50	0.5	19.8	98	179
STD OXC129	Standard	1.43	15.0	0.7	<0.05	23.2	4.46	22.0	<0.02	<1	0.7	2.2	<10	<2
STD DS10 Expected		1.62	27.7	1.6		2.7	7.77	37	0.23	50	0.63	19.4	110	191
STD OXC129 Expected		1.4		0.7		21	4.7	23.7			0.8	2.22		
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2