



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: **Kluane Mineral Resources Inc.**
101 - 1191 Front St.
Whitehorse Yukon Y1A 0K5 Canada

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

CERTIFICATE OF ANALYSIS

WHI16000305.1

CLIENT JOB INFORMATION

Project: Kluane West
Shipment ID:
P.O. Number
Number of Samples: 14

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: Kluane Mineral Resources Inc.
101 - 1191 Front St.
Whitehorse Yukon Y1A 0K5
Canada

CC: Cam MacKay-Stotesbury
Sue Craig

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Sort	14	Sorting of samples on arrival			VAN
Split Pulp	14	Analysis sample split/packet			VAN
Split Reject	14	Reject sample split/packet			VAN
CLYSP	14	Clay separation and hand pulverizing with acetone wash in			VAN
AQ250_EXT	14	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	0.5	Completed	VAN
DRPLP	14	Warehouse handling / disposition of pulps			VAN
DRRJT	14	Warehouse handling / Disposition of reject			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

WHI16000305.1

Method	WGHT	CLYSP	CLYSP	CLYSP	CLYSP	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
Analyte	WgtTotal	WtClay	R-1Clay	R-2otal Clay	Clay	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	
Unit	kg	g	g	g	g	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	
MDL	0.01	0.01	0.01	0.01	0.01	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	
1531051	Silt	2.59	500.00	0.88	<0.01	0.88	5.36	63.46	9.86	215.1	173	36.8	13.9	599	7.27	86.8	0.6	2.8	1.3	46.4	0.41
1531052	Silt	4.56	500.00	0.71	<0.01	0.71	3.56	124.76	6.73	84.2	293	17.8	7.1	166	1.70	7.0	0.6	3.7	0.7	38.8	0.23
1531053	Silt	3.39	500.00	0.95	<0.01	0.95	2.64	61.08	9.88	103.8	153	23.5	10.4	548	2.60	15.4	0.8	3.4	0.7	51.0	0.53
1531054	Silt	3.58	500.00	0.92	<0.01	0.92	3.90	240.85	6.72	76.0	253	15.3	4.6	109	0.76	3.4	0.5	5.1	0.5	41.0	0.68
1531055	Silt	2.72	500.00	2.28	<0.01	2.28	6.63	54.68	9.46	404.9	189	89.2	40.6	3800	14.42	73.0	0.9	0.2	1.2	63.0	0.52
1531251	Silt	3.56	500.00	4.41	<0.01	4.41	1.51	170.91	12.81	187.4	325	220.2	47.5	1072	9.49	25.8	0.7	5.8	4.6	53.8	0.35
1531252	Silt	3.25	500.00	1.25	<0.01	1.25	1.18	200.33	13.80	126.8	315	72.2	17.1	295	3.28	19.2	1.5	5.9	1.5	47.0	0.65
1531253	Silt	3.81	500.00	2.35	<0.01	2.35	2.13	104.40	12.98	263.8	203	158.3	51.6	874	10.62	39.2	0.6	2.7	2.7	45.5	0.57
1531364	Silt	0.91	500.00	1.75	<0.01	1.75	1.66	147.16	15.67	255.5	269	270.6	64.2	3948	9.03	38.1	0.8	4.8	2.0	77.9	1.19
1531365	Silt	1.89	500.00	2.66	<0.01	2.66	2.15	135.46	16.88	250.9	225	242.8	53.4	1649	9.55	36.1	0.9	3.7	2.3	68.9	0.66
1531366	Silt	1.47	500.00	3.31	<0.01	3.31	2.28	133.56	16.87	237.6	154	332.3	79.6	4519	9.41	43.1	0.9	2.7	2.3	78.3	0.87
1531367	Silt	1.96	500.00	4.49	<0.01	4.49	4.70	92.40	5.75	251.6	253	225.2	77.8	1402	11.91	20.6	0.4	2.5	1.3	39.8	0.38
1531368	Silt	2.47	500.00	4.05	<0.01	4.05	3.77	30.14	7.90	293.4	115	93.8	67.9	4116	17.57	72.2	0.4	2.0	1.3	57.5	0.44
1531369	Silt	2.72	500.00	1.13	<0.01	1.13	0.62	325.85	4.23	109.0	393	631.0	99.3	1186	7.05	42.1	0.3	12.9	0.6	36.8	0.30



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CERTIFICATE OF ANALYSIS

WHI16000305.1

Method	Analyte	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se
Unit		ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	
MDL		0.02	0.02	2	0.01	0.001	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1
1531051	Silt	1.06	0.13	49	0.66	0.088	13.0	34.8	0.69	238.6	0.174	<20	1.42	2.090	0.08	<0.1	3.5	0.14	0.38	39	0.5
1531052	Silt	1.57	0.12	24	0.54	0.065	6.1	14.5	0.35	98.6	0.156	<20	0.77	1.893	0.10	<0.1	2.1	0.29	0.41	107	1.0
1531053	Silt	1.52	0.17	37	0.89	0.101	7.9	18.5	0.41	169.4	0.168	<20	0.90	2.022	0.09	0.1	2.2	0.09	0.41	26	0.6
1531054	Silt	1.36	0.24	15	0.52	0.067	5.4	13.8	0.27	107.7	0.143	<20	0.64	1.830	0.10	0.1	1.4	0.27	0.40	118	0.6
1531055	Silt	0.93	0.23	80	1.45	0.212	10.2	63.7	0.91	205.4	0.041	<20	2.60	1.523	0.10	<0.1	5.3	0.11	0.38	68	0.9
1531251	Silt	0.71	0.31	180	1.43	0.073	23.2	220.1	2.82	320.4	0.166	<20	5.17	1.497	0.35	<0.1	21.4	0.33	0.13	106	1.0
1531252	Silt	1.20	0.23	78	1.24	0.083	17.8	70.2	1.14	190.5	0.058	<20	2.27	2.466	0.12	<0.1	9.1	0.22	0.63	154	3.0
1531253	Silt	0.68	0.26	174	0.93	0.096	18.2	164.5	2.57	256.5	0.154	<20	4.42	1.665	0.25	<0.1	15.6	0.19	0.24	84	1.3
1531364	Silt	0.75	0.23	162	1.68	0.141	26.5	170.0	2.87	461.0	0.122	<20	4.26	1.952	0.24	<0.1	15.9	0.23	0.32	99	2.1
1531365	Silt	0.66	0.30	181	1.41	0.155	22.1	169.4	2.75	362.0	0.125	<20	4.92	1.936	0.27	<0.1	15.8	0.22	0.32	80	1.4
1531366	Silt	0.68	0.27	160	1.43	0.139	23.1	179.0	3.24	446.6	0.131	<20	4.63	1.918	0.27	<0.1	13.5	0.26	0.34	62	1.8
1531367	Silt	0.40	0.10	209	1.23	0.085	9.7	292.5	5.12	163.3	0.159	<20	4.91	1.222	0.11	<0.1	17.1	0.12	0.11	55	1.4
1531368	Silt	0.58	0.15	95	1.55	0.085	10.2	90.5	1.57	320.9	0.055	<20	2.30	1.547	0.07	<0.1	6.6	0.10	0.21	63	1.0
1531369	Silt	0.29	0.09	93	1.15	0.059	4.6	554.1	6.96	119.7	0.041	43	3.07	2.374	0.12	<0.1	14.6	0.08	0.40	43	0.9



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Project: Kluane West

Report Date: November 05, 2016

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CERTIFICATE OF ANALYSIS

WHI16000305.1

Method	Analyte	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.02	0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
1531051	Silt	0.03	6.7	0.92	0.1	0.13	1.01	7.8	0.5	<0.05	6.6	7.11	23.4	0.02	2	0.3	9.9	<10	<2
1531052	Silt	0.03	6.2	0.44	<0.1	0.05	0.70	3.8	0.3	<0.05	3.8	3.22	11.4	<0.02	8	0.3	6.0	<10	<2
1531053	Silt	0.04	8.6	0.60	<0.1	0.12	1.20	4.3	0.4	<0.05	6.2	4.56	14.9	<0.02	5	0.4	7.1	<10	3
1531054	Silt	0.06	5.2	0.47	<0.1	0.08	0.66	3.4	0.3	<0.05	3.4	2.66	10.7	<0.02	5	<0.1	4.8	<10	3
1531055	Silt	0.08	6.6	1.35	0.2	0.14	1.03	11.8	0.5	<0.05	5.1	12.10	20.7	0.06	3	0.5	20.6	<10	<2
1531251	Silt	0.08	13.1	1.97	0.1	0.30	0.43	33.3	0.7	<0.05	13.0	23.46	41.7	0.08	1	1.2	30.0	<10	<2
1531252	Silt	0.02	7.6	1.09	<0.1	0.10	1.09	13.1	0.6	<0.05	5.6	17.14	29.7	0.02	7	0.5	14.6	<10	<2
1531253	Silt	0.04	12.0	1.34	0.1	0.14	0.93	21.2	0.7	<0.05	8.2	16.37	29.0	0.06	3	1.0	26.0	<10	5
1531364	Silt	0.09	10.4	1.29	<0.1	0.07	0.58	18.3	0.7	<0.05	4.5	32.90	44.6	0.08	1	0.7	27.5	<10	5
1531365	Silt	0.09	11.5	1.50	0.2	0.13	0.86	22.4	0.7	<0.05	5.4	29.83	44.8	0.08	<1	0.7	33.8	12	3
1531366	Silt	0.07	10.5	1.63	0.1	0.14	0.70	23.9	0.7	<0.05	5.0	24.18	61.2	0.05	<1	1.7	31.2	<10	4
1531367	Silt	0.08	11.8	0.86	0.1	0.17	0.14	8.9	0.4	<0.05	7.2	13.95	16.9	0.05	3	0.4	26.7	<10	9
1531368	Silt	0.06	6.6	0.81	0.2	0.06	0.71	7.5	0.4	<0.05	3.5	8.09	21.2	<0.02	1	0.8	13.4	<10	<2
1531369	Silt	0.06	5.9	1.16	<0.1	0.08	0.27	7.2	0.2	<0.05	2.4	5.91	11.2	0.02	<1	0.5	29.5	12	8



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QUALITY CONTROL REPORT

WHI16000305.1

Method	WGHT	CLYSP	CLYSP	CLYSP	CLYSP	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
Analyte	Wgt Total	Wt Clay	R-1 Clay	R-2total	Clay	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	
Unit	kg	g	g	g	g	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	
MDL	0.01	0.01	0.01	0.01	0.01	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	
Pulp Duplicates																					
1531055	Silt	2.72	500.00	2.28	<0.01	2.28	6.63	54.68	9.46	404.9	189	89.2	40.6	3800	14.42	73.0	0.9	0.2	1.2	63.0	0.52
REP 1531055	QC						7.32	56.65	9.86	413.0	206	92.1	43.2	4156	14.78	74.2	1.0	2.0	1.3	65.1	0.49
Reference Materials																					
STD DS10	Standard						13.57	148.96	143.41	355.3	1682	71.9	13.4	876	2.73	42.7	2.5	50.9	7.1	66.5	2.38
STD OREAS45EA	Standard						1.30	681.96	12.05	31.0	253	379.0	50.2	403	20.99	9.7	1.5	87.3	8.6	3.5	0.04
STD DS10 Expected							13.6	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
STD OREAS45EA Expected							1.6	709	14.3	31.4	260	381	52	400	23.51	10.3	1.73	53	10.7	3.5	0.03
BLK	Blank						<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	2	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01



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Method	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
Analyte	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	
Unit	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	
MDL	0.02	0.02	2	0.01	0.001	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	
Pulp Duplicates																					
1531055 Silt	0.93	0.23	80	1.45	0.212	10.2	63.7	0.91	205.4	0.041	<20	2.60	1.523	0.10	<0.1	5.3	0.11	0.38	68	0.9	
REP 1531055 QC	1.00	0.25	83	1.52	0.218	10.9	64.2	0.92	215.4	0.042	<20	2.69	1.592	0.10	<0.1	6.1	0.13	0.41	75	1.4	
Reference Materials																					
STD DS10 Standard	7.75	12.26	41	1.07	0.073	17.3	54.4	0.77	393.3	0.078	<20	1.03	0.067	0.33	2.9	2.8	5.00	0.28	264	2.4	
STD OREAS45EA Standard	0.26	0.21	308	0.03	0.028	6.5	789.3	0.10	123.9	0.094	<20	3.19	0.018	0.05	<0.1	74.0	0.06	0.03	5	0.7	
STD DS10 Expected	9	11.65	43	1.0625	0.0765	17.5	54.6	0.775	412	0.0817		1.0259	0.067	0.338	3.32	2.8	5.1	0.29	300	2.3	
STD OREAS45EA Expected	0.32	0.26	303	0.036	0.029	7.06	849	0.095	148	0.0984		3.13	0.02	0.053		78	0.072	0.036	10	0.78	
BLK Blank	<0.02	<0.02	<2	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	



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Method	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
Analyte	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.02	0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
Pulp Duplicates																			
1531055	Silt	0.08	6.6	1.35	0.2	0.14	1.03	11.8	0.5	<0.05	5.1	12.10	20.7	0.06	3	0.5	20.6	<10	<2
REP 1531055	QC	0.06	6.8	1.38	0.1	0.13	1.06	12.3	0.6	<0.05	5.4	12.37	21.4	0.03	4	0.8	20.6	<10	<2
Reference Materials																			
STD DS10	Standard	4.74	4.2	2.46	<0.1	0.05	1.30	27.1	1.5	<0.05	2.1	7.69	34.5	0.21	43	0.7	18.7	104	166
STD OREAS45EA	Standard	0.07	11.4	0.60	0.2	0.58	0.07	6.8	0.7	<0.05	21.6	5.02	15.9	0.07	<1	0.4	2.4	33	90
STD DS10 Expected		5.01	4.3	2.63	0.08	0.06	1.25	27.7	1.6		2.2	7.77	37	0.23	50	0.63	19.4	110	191
STD OREAS45EA Expected		0.07	12.4	0.71	0.26	0.68	0.09	7.5	0.83		23	5.09	17.7	0.08		0.41	2.37	66	108
BLK	Blank	<0.02	<0.1	<0.02	<0.1	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2