

**BC Geological Survey
Assessment Report
36942**



Ministry of Energy, Mines & Petroleum Resources
Mining & Minerals Division
BC Geological Survey

Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]:

Rock Geochemistry & Prospecting MDB Property

TOTAL COST:

\$ 7111.12

AUTHOR(S):

CRAIG KENNEDY

SIGNATURE(S):

Craig Kennedy

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S):

N/A

YEAR OF WORK:

2016

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S):

5646533 - 2016/Oct/16 to 2016/Nov/18

PROPERTY NAME:

MDB 01-16 Tenure 1047282

CLAIM NAME(S) (on which the work was done):

MDB 01-16

COMMODITIES SOUGHT:

Cu, Ag

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN:

N/A

MINING DIVISION:

Fort Steele

NTS/BCGS:

0826-081

LATITUDE:

— ° — ' — "

LONGITUDE:

— ° — ' — "

(at centre of work)

OWNER(S):

UTM Coordinates 5518500N - 577500E

1)

Darlene Lavoie

2)

MAILING ADDRESS:

2290 De Wolfe Ave

Kimberley B.C. V1A-1P5

OPERATOR(S) [who paid for the work]:

1)

Kootenay Silver Inc.

2)

MAILING ADDRESS:

Suite 1820 - 1055 W. Hastings St.

Vancouver, B.C. V6E 2E9

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

Copper hosting quartzites Belt Purcell Creston formation, Mineralization hosted by limonite altered rocks within a structurally controlled tight synform. Wide spread limonite, sericite, chlorite and carbonate alteration indicates potential large size target

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:

N/A

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for...)			
Soil			
Silt			
Rock	21 Rock Samples	MDB 01-16	611.12
Other			
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)	1:10,000	MDB 01-16	5800-
PREPARATORY / PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other	REPORT		700-
TOTAL COST:			7111.12

Assessment Report

ROCK GEOCHEM & PROSPECTING

MDB PROPERTY

FORT STEELE MINING DIVISION

N.T.S. MAP SHEET 082G.081

UTM COORDINATES 5518500N – 577500E

OWNER

Darlene Lavoie
Kimberley BC

REPORT AUTHOR

Craig Kennedy
Prospector

July 2017

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MDB Property

ROCK GEOCHEM & PROSPECTING REPORT

Craig Kennedy

July 2017

1.00 INTRODUCTION

1.10 Location and Access

The MDB mineral claim is located approximately 14.5 km north, northwest of Kimberley BC. Access to the property is gained off of Highway 97 onto the Lost Dog forestry road; then at 16 km onto the Mather Creek FSR for 2 km. A number of old and new roads cut the lower levels of the property. Most of the property is easily accessed by foot with only limited areas of canyon topography. The claim is centered at UTM co-ordinates 5518500N – 0577500E, on trim map sheet 082G.081.

1.20 Property

The MDB claim, tenure # 1047282 is owned by Darlene Lavoie of Kimberley BC.

1.30 History

The area has seen exploration activities through the last 100+ years with recent work including aerial geophysics. The location of the property, north of the major past producing Sullivan Mine at Kimberley BC, has stimulated individuals, junior and major exploration company's activities in the past.

2.00 SUMMARY

Recent years have seen an increase in metal exploration targeting Mesoproterozoic sediments hosted copper deposits in the Belt Purcell of South East BC. This is not a new idea but a resurgence of historic exploration for this

style of deposit which started in the early 1960s in Montana and Idaho in the USA. The discovery of three deposits which reside in what is referred to as the N.W. Montana Copper Belt was the result of this early work. In spite of much study, the controls on this type of deposit remain elusive. Copper mineralization adequate panels of host rock and drilling seem to have been the most effective discovery tools used in the N.W. Montana Copper Belt. Exploration in S.E. BC has predominantly been initiated in the Belt Creston Formation. The Middle Creston Formation in S.E. BC is generally considered to be correlative to the copper hosting Revett Formation of N.W. Montana. The reason for the comparison is the existence of "Revett style" quartzites in the Middle Creston Formation. These quartzites are laminated (narrow silty partings) fine to medium grained - medium to thick bedded; in comparison to other Creston Lithologies they are quite distinct in appearance.

As mentioned above a major reason for discovery of deposits in N.W. Montana was drilling of strat holes in areas where surface copper mineralization existed in Revett Formation rocks.

Early in the development of an exploration plan targeting the Middle Creston Formation it was decided a major criteria would also be long lived polymetallic structures. A number of these are recognized in the footwall Aldridge Formation. The program was developed around projecting these footwall structures into Creston Formation rocks with prospecting to target areas along projected trends. The staking of the MDB was a direct result of following this exploration model.

Figure 1: Regional Location Map



MDB Property Location

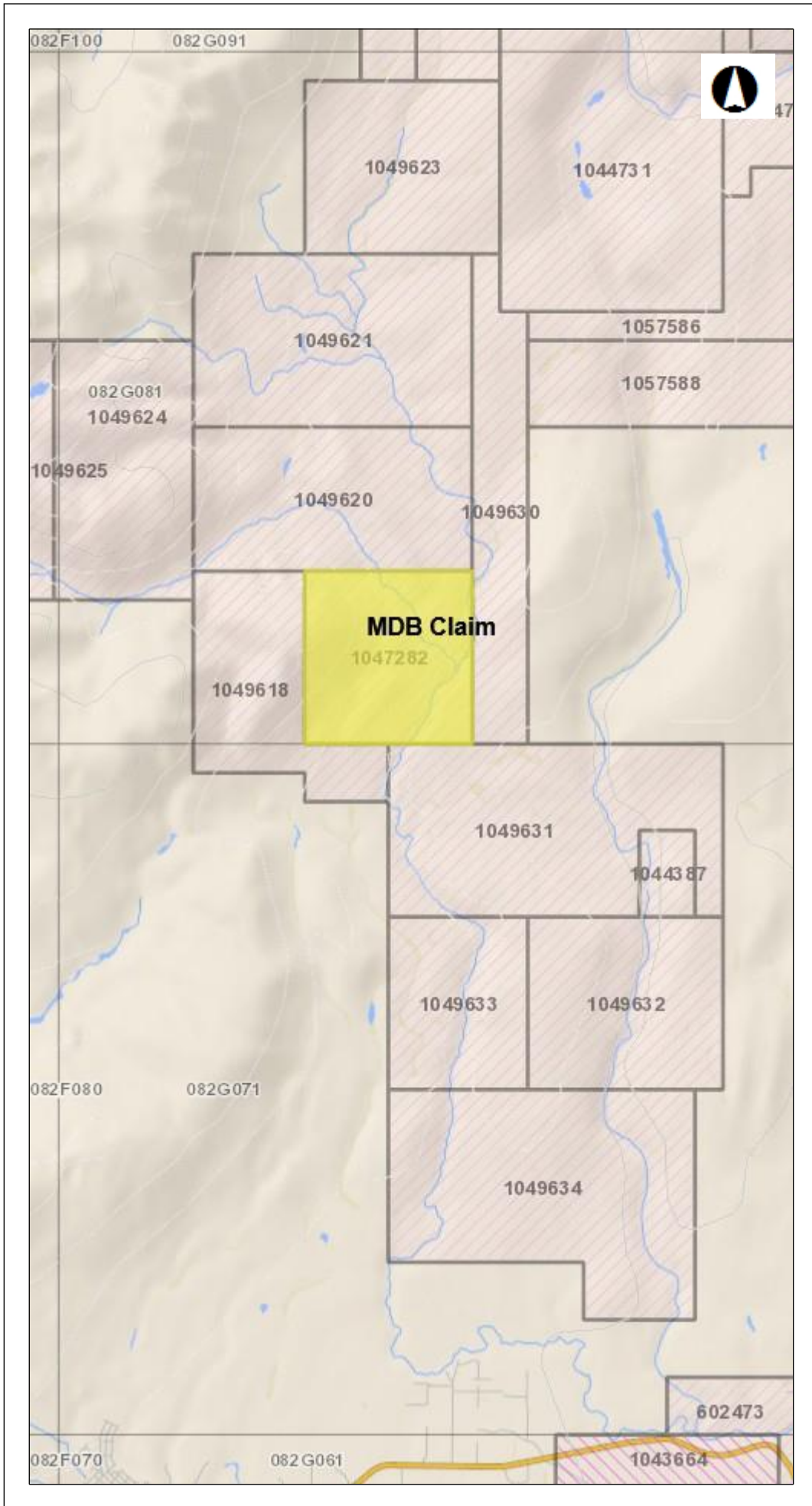


Figure 2, MDB Claim Location Map

Legend

- Mapsheet Grid (1:20,000)
- Contours - (1:250,000)
- FCODE
- Contour - Index Contour
- Intermediate Area of
- Exclusion

0 2.94 5.9 km

1:144,447.00



Key Map of British Columbia



3.00 PROSPECTING & ROCK GEOCHEM PROGRAM

The MDB Property occupies a window with exposed lower, Lower Creston Formation rocks. These rocks are equivalent to the hangingwall rocks in the North West Montana Copper Belt. The MDB window has a large volume of reduced rocks with intermixed coarse quartzites, siltstones and thin bedded silty argillites. Limonite, carbonite, manganese, chlorite, silicification and sericite alteration are wide spread. Foliation, quartz veining and folding indicate a strong structural presence within the local area.

Potential important copper mineralization is located in a number of areas on the property. Dominate copper mineralization to date is in the form of chalcopyrite and malachite. This mineralization is usually associated with limonite and/or pyrite, liesegang style goethite, manganese and carbonate alteration.

Of important significance is the existence of a number of outcrops which host anomalous amounts of bornite mineralization. Bornite is considered to be an important indicator of sediment copper deposit zoning with bornite being closer to system's heart.

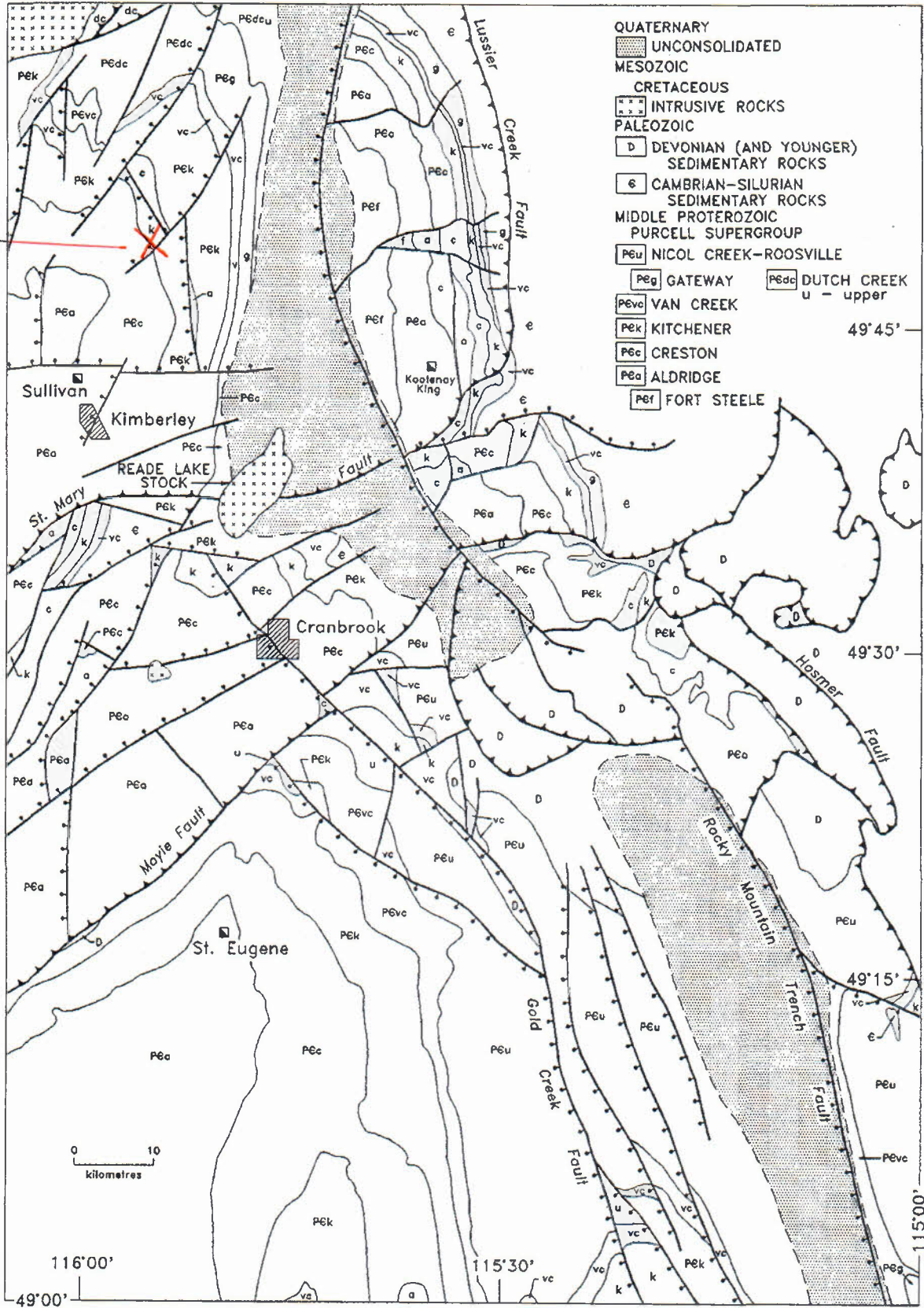
Limited prospecting and rock geochemistry on the MDB claim has defined a very interesting area hosting copper mineralization. The existence of narrow veins hosting disseminations and blebs of bornite and malachite is very encouraging. Bornite mineralization is of importance in metal zoning within sediment hosted copper deposits and indicates a strong vector for future drilling.

Rock samples were analysed using Bureau Veritas Minerals AQ201 procedure. 1:1:1 Aqua Regia digestion ICP-MS, 36 elements reported on.

During the program 21 rock samples were collected and analysed. Most of the rock samples are anomalous for copper and or pathfinder elements. High-lights are samples: CK16-44 2296.4 ppm Cu, CK16-46 1231.6 ppm Cu, CK-47 1182.1

REGIONAL GEOLOGY MAP

MDB PROPERTY LOCATION X



MDB PROPERTY

Figure 3

ppm Cu, CK16-50 2877.9 ppm Pb & 40.5 ppm Ag. Samples CK16-44, 45, 46 & 47 are also anomalous in Au with respective values of 107.4 ppb, 104.8 ppb, 120.6 ppb and 129.6 ppb. All samples indicate rock values which would be expected in areas of prospective geology.

The host rock for the bornite mineralization is a coarse grained white quartzite with strong black/brown manganese, carbonate alteration. Rare bornite and malachite is also noted as blebs and short lived gashes in a number of narrow white quartzite beds in the associated area. Initial geological interpretation indicates the bornite mineralization is hosted by the hinge zone of a local tight synform.

As indicated previously, chalcopyrite and malachite exist in a number of areas as rare discontinuous occurrences. The most significant chalcopyrite recognized to date occurs in a lower series of narrow glassy quartzites in the same hinge zone as the bornite 200 plus meters southwest of the bornite fracture zone. Rock geochemistry indicates the mineralogy of the MDB claim is very close in association with the Ravalli Formation of Northwest Montana. The Ravalli-Revett Formation hosts the copper deposits of the northwest Montana copper belt.

4.00 CONCLUSION & RECOMMENDATIONS

The MDB claim hosts a significant occurrence of fracture controlled bornite mineralization within a narrow synform hinge zone. The rock so far encountered indicates a fairly wide spread alteration zone of reduced mixed lithologies. Future work should first consider expansion of the existing ground position.

Continued prospecting and rock geochemistry along with detailed geological mapping of existing mineralization should be contemplated as a priority. There is justification at this time for some short hole drill testing of the bornite fracture mineralized zone within the hinge of the defined synform. This structurally controlled mineralization defines a real opportunity for deeper testing.

5.00 STATEMENT OF EXPENDITURES

Prospecting & Rock Geochemistry MDB Property

Work performed: Fall 2016

Craig Kennedy - 10 days @ 400/day	\$4000.00
10 4X4 Truck @ 150/day	1000.00
2 ATV @150/day	300.00
Oct 16, 18, 22, 24, 28, 29, Nov 5, 10, 17, 18,	
Acme – 21 Samples	611.12
Craig Kennedy – Report writing, drafting & maps	<u>700.00</u>
Total:	<u>\$7111.12</u>

6.00 AUTHOR'S QUALIFICATIONS

As the author of this report I, Craig Kennedy, certify that:

6. I am an independent prospector residing at 2290 Dewolfe Avenue, Kimberley, BC.
2. I have been actively prospecting in the East and West Kootenays district of BC for the past 35 years and have made my living prospecting for the past 26 years.
3. I have been employed as a professional prospector by major and junior mineral exploration companies.
4. I own and maintain mineral claims in BC and have optioned numerous claims to various exploration companies.

Craig Kennedy

Craig Kennedy, Prospector

7.00 Rock Sample Descriptions
NAD 83, UTM Zone 11

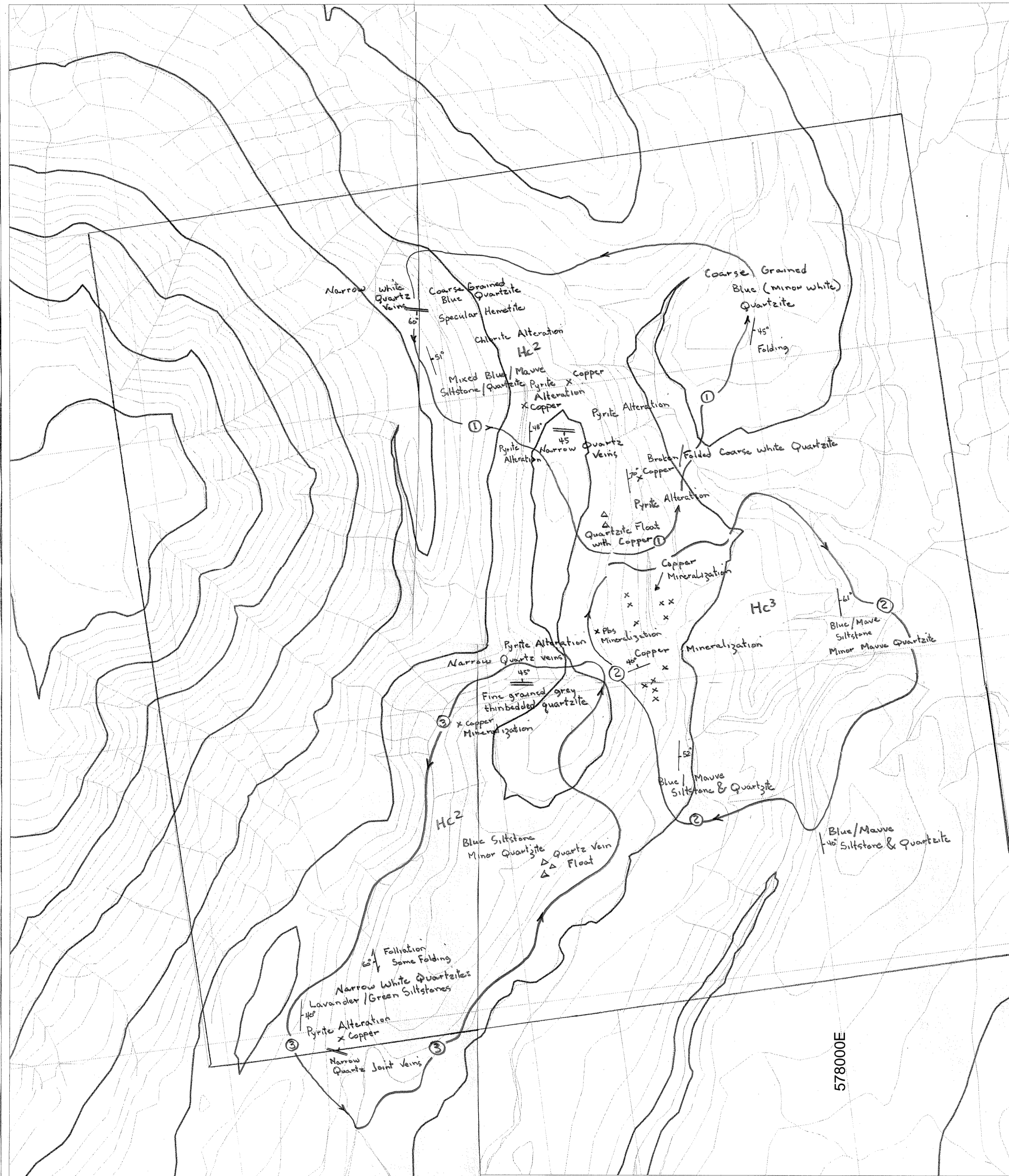
Sample No.	UTM E	UTM N	Property	Description
CK16-44	577484	5518223	MDB	Host Qtzt chocolate brown "punky" alteration -fractures w/ bornite and malachite staining "Crud rock"
CK16-45	577485	5518223	MDB	Host Qtz, chocolate brown Mn/carbonate flooded?
CK16-46	577483	5518225	MDB	Similar to above, same definite bornite, malachite w/ narrow Qtz veins
CK16-47	577484	5518222	MDB	Host Qtzt, phyllitic pastel colored shinny partings w/ weak malachite
CK16-48	577482	5518229	MDB	Host Qtzt .75 cm, massive Chl vein, weak iron staining
CK16-49	577475	5518200	MDB	Massive white Qtzt, some carbonate & brown rind, rare fractures, specks of Mal & Bornite
CK16-50	577382	5518220	MDB	Crystalline 30 - 50 cm bedding parallel Qtz vein, blebs of Chl & weak iron staining
CK16-51	577481	5518245	MDB	Thin bedded siltstone, narrow Qtz sand lenses, Mn & Lim, some liesegang - red tinge (Hematite?)
CK16-52	577482	5518244	MDB	Same as above
CK16-53	577258	5519013	MDB	Coarse white Qtzt, phyllitic material, narrow Qtz veins, Limonite cubes, chlorite
CK16-54	577241	5519013	MDB	Coarse white Qtzt, some limonite (Liesegang) - copper Limonite rare malachite, CuPy
CK16-55	577240	5519013	MDB	As above with more CuPy
CK16-56	577298	5519025	MDB	White coarse Qtzt - brown rind, rare malachite with rare CuPy grains
CK16-57	577585	5518253	MDB	White coarse Qtzt - dark brown rind, some veining, rare fractures with bits of bornite & malachite
CK16-58	577612	5518231	MDB	Same as above
CK16-59	577627	5518237	MDB	White coarse Qtzt - dark brown rind, some veining, rare fractures with bits of bornite & malachite
CK16-60	577092	5518210	MDB	Revett style Qtzt - narrow Qtz joint veins, Chlorite brown carbonate and Limonite along vein margin
CK16-61	577115	55182121	MDB	Revett Style Qtzt - narrow joint veins, Limonite, carbonate vugs and margins, some feldspar?
CK16-62	577116	5518213	MDB	Limonite in carbonate cast vugs, arkosic Qtzt speaks of hematite and chlorite - dendrites of brown mica?
CK16-63	577006	5519226	MDB	Specular hematite veins cutting blue silts with Qtzt trying to turn green
CK16-64	577005	5519228	MDB	Phyllitic waxy green silt parting white coarse Qtzt, some limonite stain with little vugs

PROSPECTING MAP MDB PROPERTY

NAD 83, UTM ZONE 11

5518000N

578000E

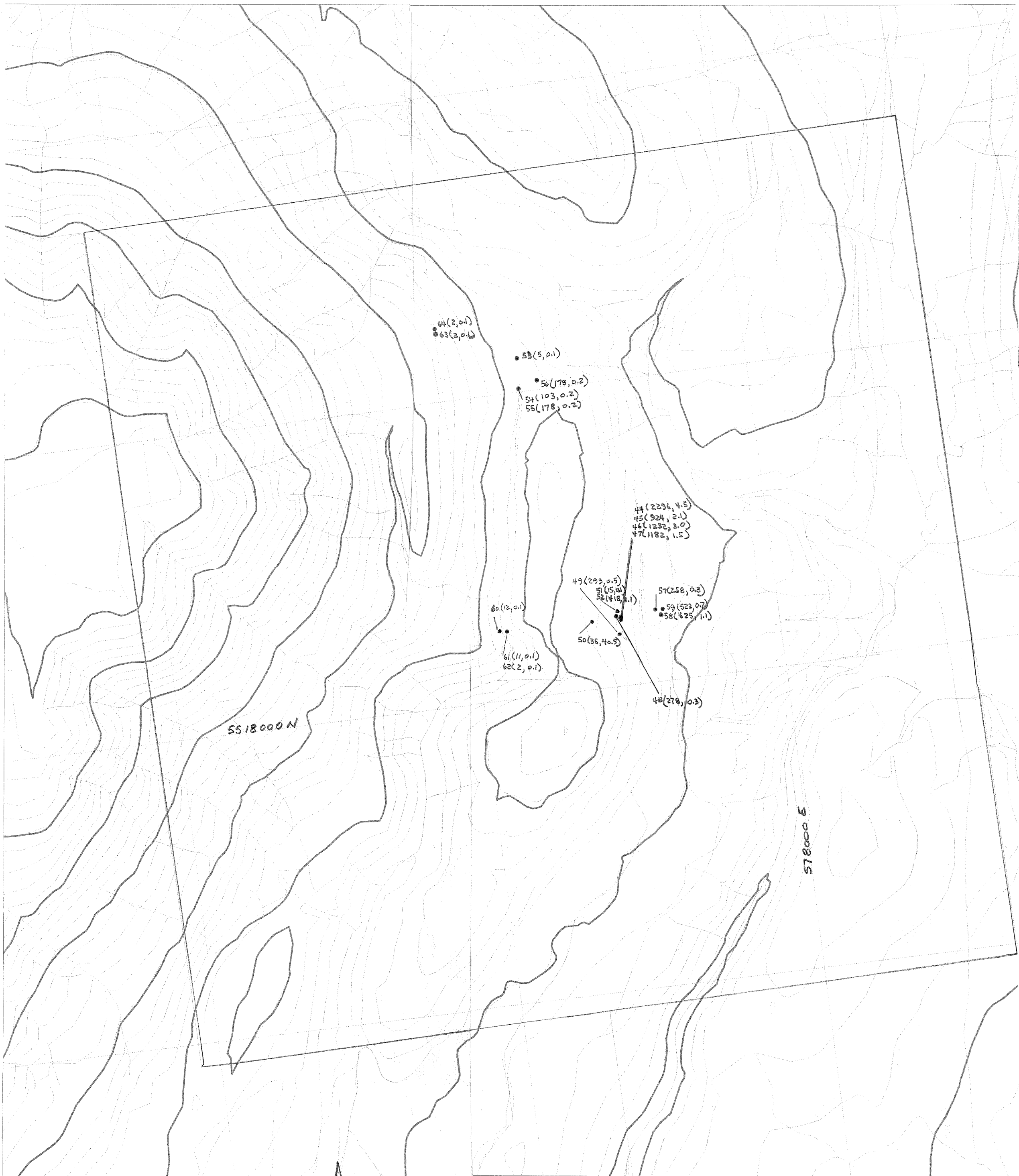


SCALE 1:10,000



LEGEND

- PROSPECTING TRAVERSE ROUTE
- FLOAT
- QUARTZ VEIN
- FOLIATION
- MINERALIZED OUTCROPS
- Hc3 UPPER CRESTON FORMATION
- Hc2 MIDDLE CRESTON FORMATION



5518000 N

578000 E

SCALE 1:10,000
MAP SHEET 0826081



ROCK GEOCHEMISTRY SAMPLE SITE LOCATIONS
+ VALUES PPM Cu, Ag 60(12, 0.1)
SAMPLE DESIGNATION - CK 16-44 to 64



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Canada

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Kootenay Silver Inc.**
Suite 1820 - 1055 W. Hastings St.
Vancouver British Columbia V6E 2E9 Canada

Submitted By: Email Distribution List - Soil & Rock
Receiving Lab: Canada-Vancouver
Received: October 28, 2016
Report Date: November 24, 2016
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN16002145.1

CLIENT JOB INFORMATION

Project: M.D.B
Shipment ID:
P.O. Number
Number of Samples: 16

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject 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: Kootenay Silver Inc.
Suite 1820 - 1055 W. Hastings St.
Vancouver British Columbia V6E 2E9
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	16	Crush, split and pulverize 250 g rock to 200 mesh			VAN
AQ201	16	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
DRPLP	16	Warehouse handling / disposition of pulps			VAN
DRRJT	16	Warehouse handling / Disposition of reject			VAN

ADDITIONAL COMMENTS


JEFFREY CANNON
Geochemistry Department Supervisor

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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Canada

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Project: M.D.B
Report Date: November 24, 2016

Page: 2 of 2

Part: 1 of 2

CERTIFICATE OF ANALYSIS

VAN16002145.1

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
CK16-44	Rock	0.43	0.1	2296.4	6.4	10	4.5	0.7	1.1	1189	0.35	<0.5	107.4	0.9	17	<0.1	0.3	17.7	<2	0.14	0.009
CK16-45	Rock	0.82	0.1	924.4	9.0	24	2.1	4.1	3.8	984	0.56	0.8	104.8	4.3	29	<0.1	0.3	8.8	3	0.55	0.023
CK16-46	Rock	0.76	0.1	1231.6	10.2	12	3.0	1.6	1.7	998	0.37	0.6	120.6	2.7	33	<0.1	0.3	9.7	<2	0.52	0.015
CK16-47	Rock	0.49	0.1	1182.1	8.8	22	1.5	7.0	3.6	704	0.46	0.7	129.6	5.6	18	<0.1	0.2	7.6	3	0.14	0.038
CK16-48	Rock	1.17	<0.1	277.9	3.2	125	0.3	16.2	14.8	520	1.20	0.8	7.6	4.3	4	<0.1	0.3	1.0	7	0.04	0.020
CK16-49	Rock	0.63	0.1	299.2	3.8	9	0.5	0.6	1.0	1973	0.33	<0.5	4.5	0.9	35	<0.1	0.5	1.1	<2	1.67	0.012
CK16-50	Rock	0.93	0.6	34.6	2877.9	10	40.5	1.0	1.6	145	0.63	0.6	23.0	0.3	79	<0.1	1.2	85.0	<2	0.02	0.017
CK16-51	Rock	0.62	<0.1	14.5	12.2	28	0.1	4.1	3.3	1191	1.07	0.5	0.7	3.0	14	<0.1	0.1	0.5	<2	0.55	0.027
CK16-52	Rock	0.92	<0.1	417.5	20.7	10	1.1	1.5	1.2	546	0.34	<0.5	32.2	1.4	31	<0.1	0.1	3.0	<2	0.21	0.013
CK16-53	Rock	0.30	0.2	5.0	3.4	16	<0.1	4.0	3.0	59	0.95	1.9	1.1	5.1	2	<0.1	0.2	0.1	<2	0.01	0.016
CK16-54	Rock	0.30	0.2	103.1	6.1	20	0.2	3.0	0.5	33	0.44	2.1	2.6	0.9	2	<0.1	0.2	0.2	<2	0.01	0.010
CK16-55	Rock	0.50	0.1	81.2	2.9	11	0.2	0.9	0.6	55	0.32	0.8	1.5	0.9	2	<0.1	0.2	<0.1	<2	0.01	0.009
CK16-56	Rock	0.48	0.2	177.5	6.2	7	0.2	1.0	1.7	2488	0.56	3.0	1.4	1.5	36	<0.1	0.9	0.5	<2	2.14	0.032
CK16-57	Rock	0.42	0.1	258.2	94.6	6	0.3	0.6	0.6	1109	0.32	1.7	6.7	1.1	27	<0.1	2.1	1.0	<2	0.66	0.010
CK16-58	Rock	0.55	0.1	624.8	4.5	12	1.1	1.7	1.4	261	0.32	0.6	17.8	1.8	20	<0.1	0.1	2.7	<2	0.44	0.059
CK16-59	Rock	0.43	0.1	521.9	4.4	14	0.7	2.5	2.1	1392	0.40	<0.5	17.8	1.3	30	<0.1	<0.1	2.5	<2	1.33	0.014



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Page: 2 of 2

Part: 2 of 2

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VAN16002145.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.01	0.05	1	0.5	0.2
CK16-44	Rock	5	2	0.07	1549	<0.001	<1	0.04	0.016	<0.01	<0.1	0.19	0.5	<0.1	0.08	<1	2.2	0.9
CK16-45	Rock	17	4	0.44	2105	<0.001	2	0.36	0.029	0.10	<0.1	0.14	1.2	<0.1	0.05	<1	<0.5	0.6
CK16-46	Rock	13	2	0.27	2147	<0.001	1	0.12	0.019	0.04	<0.1	0.14	0.9	<0.1	0.06	<1	1.0	0.7
CK16-47	Rock	42	5	0.30	994	<0.001	1	0.55	0.051	0.15	<0.1	0.08	1.2	<0.1	<0.05	1	<0.5	0.7
CK16-48	Rock	17	8	1.55	169	0.001	1	1.28	0.008	0.08	<0.1	0.05	1.2	<0.1	<0.05	4	<0.5	<0.2
CK16-49	Rock	6	2	0.86	1527	<0.001	<1	0.03	0.008	<0.01	<0.1	0.14	0.4	<0.1	<0.05	<1	<0.5	<0.2
CK16-50	Rock	2	2	0.01	1973	<0.001	<1	0.06	0.006	0.02	<0.1	0.07	0.3	<0.1	0.06	<1	3.8	10.3
CK16-51	Rock	13	3	0.24	244	0.001	<1	0.25	0.008	0.11	<0.1	<0.01	1.2	<0.1	<0.05	<1	<0.5	<0.2
CK16-52	Rock	8	2	0.11	2102	<0.001	<1	0.08	0.009	0.02	<0.1	0.03	0.4	<0.1	0.06	<1	<0.5	0.2
CK16-53	Rock	23	3	0.02	77	<0.001	<1	0.22	0.004	0.16	<0.1	<0.01	0.6	<0.1	<0.05	<1	<0.5	<0.2
CK16-54	Rock	4	2	0.09	67	<0.001	<1	0.16	0.004	0.04	<0.1	0.02	0.2	<0.1	<0.05	<1	<0.5	<0.2
CK16-55	Rock	4	2	0.02	22	<0.001	<1	0.06	0.003	0.02	<0.1	0.01	0.1	<0.1	<0.05	<1	<0.5	<0.2
CK16-56	Rock	5	2	0.94	63	<0.001	<1	0.03	0.005	<0.01	<0.1	0.02	0.8	<0.1	<0.05	<1	<0.5	<0.2
CK16-57	Rock	7	2	0.33	2349	<0.001	<1	0.03	0.009	<0.01	<0.1	0.15	0.4	<0.1	0.06	<1	<0.5	<0.2
CK16-58	Rock	9	2	0.18	1184	<0.001	<1	0.10	0.007	0.01	<0.1	0.12	0.3	<0.1	<0.05	<1	<0.5	<0.2
CK16-59	Rock	8	3	0.83	1280	<0.001	<1	0.18	0.010	0.02	<0.1	0.08	0.5	<0.1	<0.05	<1	<0.5	<0.2



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Vancouver British Columbia V6E 2E9 Canada

Project: M.D.B
Report Date: November 24, 2016

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QUALITY CONTROL REPORT

VAN16002145.1

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
CK16-47	Rock	0.49	0.1	1182.1	8.8	22	1.5	7.0	3.6	704	0.46	0.7	129.6	5.6	18	<0.1	0.2	7.6	3	0.14	0.038
REP CK16-47	QC		<0.1	1175.5	9.2	23	1.5	7.3	3.7	702	0.47	0.5	122.2	5.6	19	<0.1	0.2	7.7	4	0.14	0.043
Reference Materials																					
STD DS10	Standard		14.7	159.2	144.6	368	1.8	74.9	13.6	873	2.78	47.8	94.6	8.0	66	2.7	9.0	12.6	44	1.07	0.080
STD OXC129	Standard		1.3	30.1	6.3	42	<0.1	78.0	21.0	418	3.12	0.6	192.7	1.9	173	<0.1	<0.1	<0.1	53	0.67	0.107
STD DS10 Expected			15.1	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	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		79.5	20.3	421	3.065	0.6	195	1.9					51	0.665	0.102
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
ROCK-VAN	Prep Blank		1.2	4.4	1.8	32	<0.1	0.6	3.8	480	1.76	1.6	2.1	2.5	21	<0.1	0.1	<0.1	22	0.65	0.042
ROCK-VAN	Prep Blank		1.0	4.1	2.1	33	<0.1	0.7	4.2	489	1.81	1.5	<0.5	2.6	23	<0.1	<0.1	<0.1	23	0.71	0.045



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Project: M.D.B
Report Date: November 24, 2016

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QUALITY CONTROL REPORT

VAN16002145.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
CK16-47	Rock	42	5	0.30	994	<0.001	1	0.55	0.051	0.15	<0.1	0.08	1.2	<0.1	<0.05	1	<0.5	0.7
REP CK16-47	QC	46	6	0.31	1009	<0.001	1	0.56	0.053	0.16	<0.1	0.08	1.3	<0.1	<0.05	2	<0.5	0.6
Reference Materials																		
STD DS10	Standard	18	60	0.79	364	0.084	7	1.07	0.072	0.34	3.2	0.30	2.9	5.2	0.28	5	2.1	4.8
STD OXC129	Standard	12	53	1.52	52	0.409	1	1.56	0.598	0.38	<0.1	<0.01	0.8	<0.1	<0.05	5	<0.5	<0.2
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0755	0.067	0.338	3.32	0.3	3	5.1	0.29	4.5	2.3	5.01
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37		1.1			5.6			
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
ROCK-VAN	Prep Blank	6	2	0.46	67	0.067	2	0.98	0.126	0.12	<0.1	<0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
ROCK-VAN	Prep Blank	6	2	0.46	71	0.081	3	1.08	0.145	0.13	<0.1	<0.01	3.5	<0.1	<0.05	4	<0.5	<0.2



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Client: **Kootenay Silver Inc.**
Suite 1820 - 1055 W. Hastings St.
Vancouver British Columbia V6E 2E9 Canada

Submitted By: Email Distribution List - Soil & Rock
Receiving Lab: Canada-Vancouver
Received: November 25, 2016
Report Date: December 21, 2016
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN16002425.1

CLIENT JOB INFORMATION

Project: MDB
Shipment ID:
P.O. Number
Number of Samples: 5

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject 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: Kootenay Silver Inc.
Suite 1820 - 1055 W. Hastings St.
Vancouver British Columbia V6E 2E9
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	5	Crush, split and pulverize 250 g rock to 200 mesh			VAN
AQ201	5	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
DRPLP	5	Warehouse handling / disposition of pulps			VAN
DRRJT	5	Warehouse handling / Disposition of reject			VAN

ADDITIONAL COMMENTS


JEFFREY CANNON
Geochemistry Department Supervisor

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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Project: MDB
Report Date: December 21, 2016

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CERTIFICATE OF ANALYSIS

VAN16002425.1

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
CK16-60	Rock	0.29	0.3	12.2	41.8	14	0.1	3.4	5.4	215	0.86	1.4	0.9	1.3	12	<0.1	1.5	1.1	<2	0.01	0.010
CK16-61	Rock	0.40	0.2	10.7	30.8	14	<0.1	2.1	3.3	237	0.53	1.0	<0.5	5.9	12	<0.1	1.1	0.8	<2	0.03	0.007
CK16-62	Rock	0.32	0.2	1.5	2.3	10	<0.1	1.5	1.9	89	0.38	<0.5	<0.5	7.5	3	<0.1	0.1	<0.1	<2	0.02	0.006
CK16-63	Rock	0.32	0.3	2.0	4.6	15	<0.1	3.3	4.1	1358	2.77	1.0	<0.5	0.3	1	<0.1	0.6	<0.1	5	0.02	0.018
CK16-64	Rock	0.37	0.2	1.8	2.0	3	<0.1	1.1	0.6	174	0.24	<0.5	<0.5	0.7	1	<0.1	<0.1	<0.1	<2	0.01	0.006



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Project: MDB
Report Date: December 21, 2016

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CERTIFICATE OF ANALYSIS

VAN16002425.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
CK16-60	Rock	5	3	0.03	1383	<0.001	<1	0.12	0.013	0.06	<0.1	0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2
CK16-61	Rock	16	3	0.05	975	<0.001	<1	0.16	0.025	0.07	<0.1	0.01	0.8	<0.1	<0.05	<1	<0.5	<0.2
CK16-62	Rock	22	3	0.06	84	<0.001	<1	0.22	0.028	0.10	<0.1	<0.01	0.6	<0.1	<0.05	<1	<0.5	<0.2
CK16-63	Rock	1	2	0.02	144	0.004	<1	0.12	0.007	0.02	0.4	<0.01	0.7	<0.1	<0.05	<1	<0.5	<0.2
CK16-64	Rock	5	2	0.01	34	<0.001	<1	0.06	0.005	0.02	<0.1	<0.01	0.1	<0.1	<0.05	<1	<0.5	<0.2



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Project: MDB
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QUALITY CONTROL REPORT

VAN16002425.1

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
CK16-60	Rock	0.29	0.3	12.2	41.8	14	0.1	3.4	5.4	215	0.86	1.4	0.9	1.3	12	<0.1	1.5	1.1	<2	0.01	0.010
REP CK16-60	QC		0.3	12.8	41.9	15	0.1	3.6	5.1	217	0.86	1.8	<0.5	1.4	12	<0.1	1.5	1.1	<2	0.01	0.010
Reference Materials																					
STD DS10	Standard		15.5	147.3	157.3	360	1.9	77.4	13.7	895	2.79	43.6	76.2	8.1	65	2.6	8.1	10.9	44	1.10	0.072
STD OXC129	Standard		1.4	25.9	6.6	41	<0.1	82.5	21.4	426	3.01	<0.5	191.2	2.0	202	<0.1	<0.1	<0.1	52	0.75	0.093
STD DS10 Expected			15.1	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	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		79.5	20.3	421	3.065	0.6	195	1.9					51	0.665	0.102
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
ROCK-VAN	Prep Blank		0.8	3.9	4.5	35	<0.1	1.0	3.5	476	1.60	1.1	<0.5	1.9	20	<0.1	<0.1	<0.1	22	0.70	0.036



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QUALITY CONTROL REPORT

VAN16002425.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.01	0.05	1	0.5	0.2
Pulp Duplicates																		
CK16-60	Rock	5	3	0.03	1383	<0.001	<1	0.12	0.013	0.06	<0.1	0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2
REP CK16-60	QC	4	3	0.03	1329	<0.001	<1	0.12	0.010	0.06	<0.1	0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2
Reference Materials																		
STD DS10	Standard	18	58	0.78	341	0.083	7	1.13	0.074	0.34	3.5	0.29	3.0	5.2	0.28	5	2.4	5.0
STD OXC129	Standard	12	56	1.56	49	0.412	<1	1.67	0.611	0.36	<0.1	<0.01	0.9	<0.1	<0.05	6	<0.5	<0.2
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0755	0.067	0.338	3.32	0.3	3	5.1	0.29	4.5	2.3	5.01
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37			1.1			5.6		
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
ROCK-VAN	Prep Blank	6	3	0.40	57	0.071	<1	0.85	0.077	0.08	0.1	<0.01	2.4	<0.1	<0.05	3	<0.5	<0.2