ARIS SUMMARY SHEET

District Geologist, Vancouver   Off Confidential: 94.10.25

ASSESSMENT REPORT 23074   MINING DIVISION: Nanaimo

```
PROPERTY:       Marble River
LOCATION:       LAT    50 32 00      LONG    127 27 00
                UTM    09  5598860   609851
                NTS    092L11W
CLAIM(S):       Marble Arch 1-4
OPERATOR(S):    Kennecott Can.
AUTHOR(S):      Heah, T.S.T.
REPORT YEAR:    1993, 45 Pages
COMMODITIES
SEARCHED FOR:   Copper,Silver,Gold
KEYWORDS:       Triassic,Karmutsen formation,Basalts,Tuffs,Breccias,Chalcopyrite
                Bornite
WORK
DONE:       Geological,Geochemical
            GEOL   1375.0 ha
                Map(s) - 3; Scale(s) - 1:100,1:250,1:5000
            ROCK    56 sample(s) ;ME
                Map(s) - 3; Scale(s) - 1:5000,1:250,1:100
            SOIL   244 sample(s) ;ME
                Map(s) - 3; Scale(s) - 1:5000
MINFILE:        092L  111
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Assessment Report

GEOLOGICAL AND GEOCHEMICAL REPORT ON THE MARBLE RIVER PROPERTY

Nanaimo Mining Division
NTS 92L/11W

Owner and Operator:

Kennecott Canada Inc.
 # 354 - 200 Granville Street
Vancouver, B.C.
V6C 1S4

Thomas S.T. Heah

October 24, 1993

SUMMARY

The Marble River property was staked in 1992 by Kennecott Canada Inc. after a reconnaissance program by Kennecott geologists confirmed the presence of bornite- and chalcopyrite-rich mineralization within basalt outcrops of the Karmutsen Formation along the south bank of Marble River. Elevated silver values were also found with the copper mineralization. Similar styles of mineralization and tectonic setting have been observed at such large copper occurrences as the White Pine deposits in Michigan. A 17-day field program, consisting of geological mapping, prospecting and rock, soil and stream sediment sampling, was carried out during the summer of 1993 to evaluate the potential of the property to host a large-tonnage, bulk mineable copper-silver deposit.

Mineralization at Marble River consists of chalcopyrite and bornite hosted by zeolite- to lower greenschist-metamorphosed Upper Triassic Karmutsen Formation, shallow marine, basaltic flows, tuffs and breccias. Bedding-conformable mineralization consists of chalcopyrite and bornite filling amygdules and rimmed by quartz. The more common secondary mineralization consists of chalcopyrite and bornite occurring as fracture fillings associated with ubiquitous quartz, epidote, chlorite and zeolite.

The present work indicates that the mineralization at Marble River, although locally of high grade, is limited in areal extent, being largely confined to the small discovery area along the south bank of Marble River. The potential to host a large-tonnage, bulk mineable copper-silver deposit is considered small, and further work on the property is not recommended.

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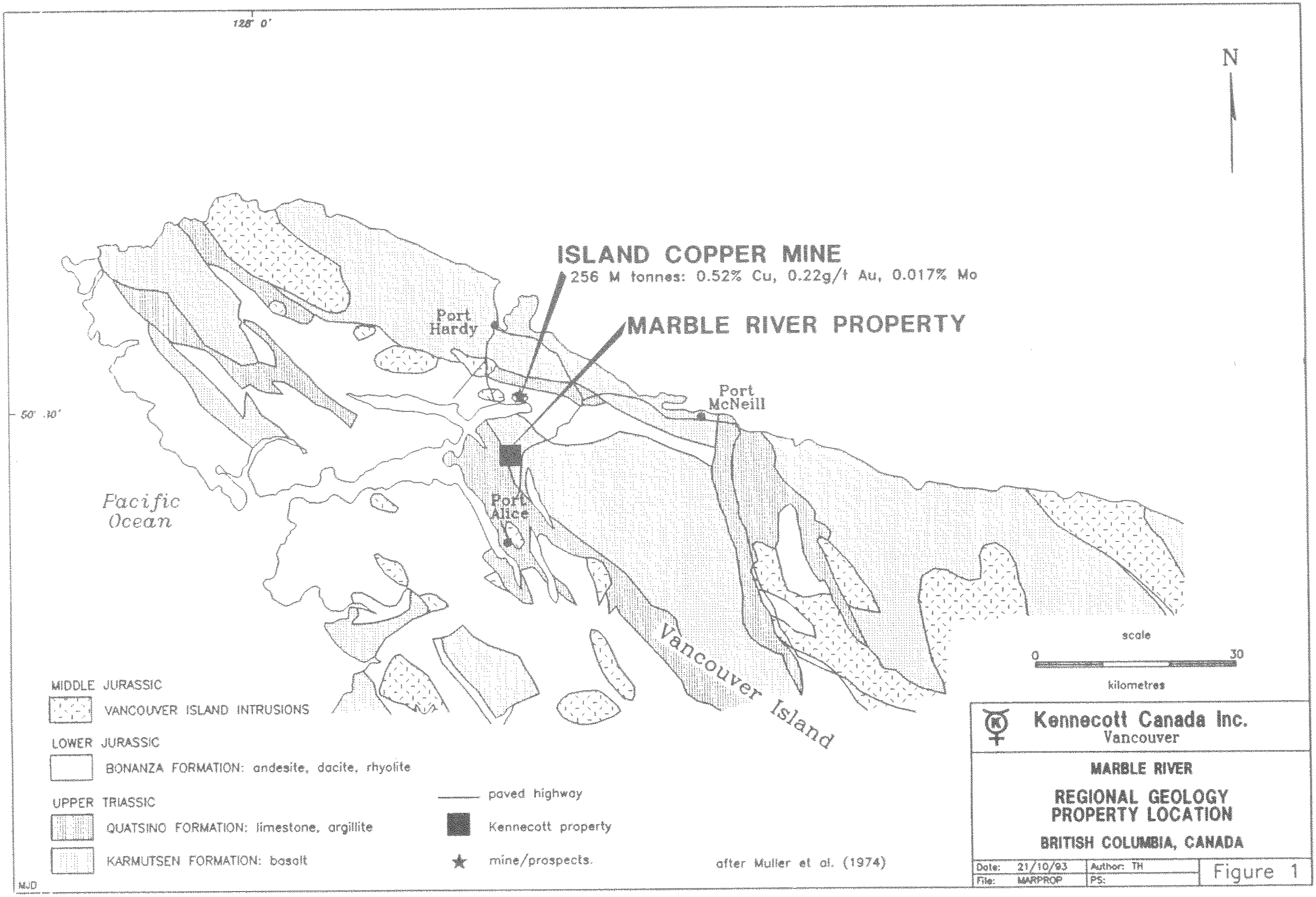
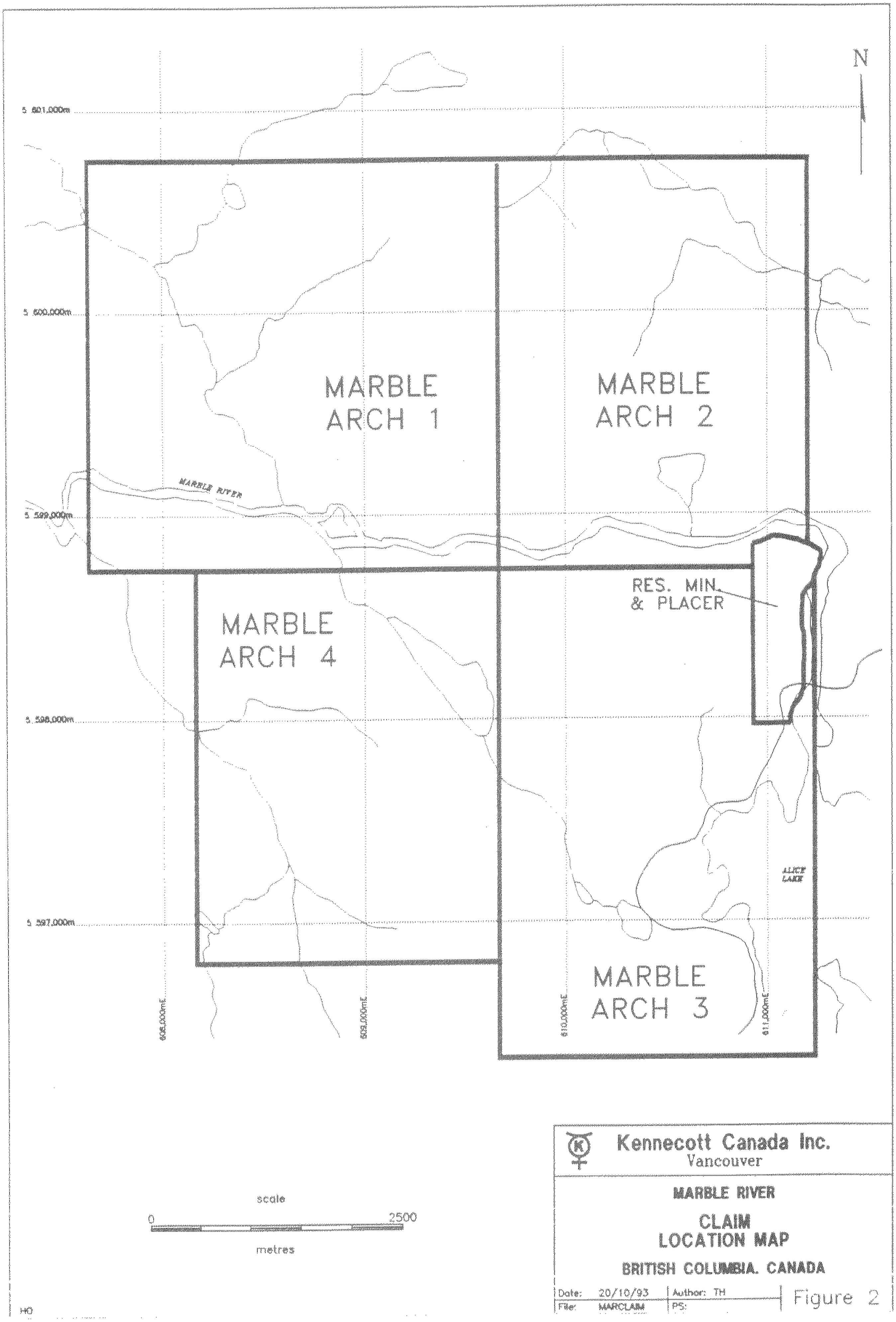
1.0 INTRODUCTION

Although the tholeiitic basalts of the Upper Triassic Karmutsen Formation have not been mined for their copper mineralization to date, they have long been known to be highly cupriferous. In some places, the Karmutsen Formation is host to accumulations of native copper. Similar rocks are thought to be the source of copper in limestone at the sabhka deposits of the very productive Kennecott mine in Alaska. Tholeiitic basalts are also known to contain significant amounts of copper, such as at the White Pine copper deposits on the Keeweenaw Peninsula in Michigan.

Reconnaissance work by Kennecott Canada Inc. geologists in 1992 on the Marble River property confirmed the presence of extensive chalcopyrite and bornite mineralization in basaltic outcrops of the Karmutsen Formation along the south bank of Marble River. Elevated silver and gold values were also observed (Enns, 1992). This work resulted in the staking of the property in the fall of 1992. Further work on the property was recommended, and led to the 1993 program at Marble River, which was carried out in two phases, during July 1-11, and August 15-20, 1993. The objective of the present program was to evaluate the potential of the property to host a large copper - silver +/- gold deposit amenable to bulk mining operations.



128° 0'
N
50° 30'
ISLAND COPPER MINE
256 M tonnes: 0.52% Cu, 0.22g/t Au, 0.017% Mo
MARBLE RIVER PROPERTY
Port Hardy
Port McNeill
Port Alice
Pacific Ocean
Vancouver Island
scale
0
30
kilometres
MIDDLE JURASSIC
VANCOUVER ISLAND INTRUSIONS
LOWER JURASSIC
BONANZA FORMATION: andesite, dacite, rhyolite
UPPER TRIASSIC
QUATSINO FORMATION: limestone, argillite
KARMUTSEN FORMATION: basalt
paved highway
Kennecott property
mine/prospects.
after Muller et al. (1974)
Kennecott Canada Inc.
Vancouver
MARBLE RIVER
REGIONAL GEOLOGY
PROPERTY LOCATION
BRITISH COLUMBIA, CANADA
Date: 21/10/93
Author: TH
File: MARPROP
PS:
Figure 1
MJD


N
5 601,000m
5 600,000m
5 599,000m
5 598,000m
5 597,000m
608,000mE
609,000mE
610,000mE
611,000mE
MARBLE ARCH 1
MARBLE ARCH 2
MARBLE ARCH 3
MARBLE ARCH 4
MARBLE RIVER
RES. MIN. & PLACER
ALICE LAKE
scale
0
2500
metres
Kennecott Canada Inc.
Vancouver
MARBLE RIVER
CLAIM LOCATION MAP
BRITISH COLUMBIA, CANADA
Date: 20/10/93
Author: TH
File: MARCLAIM
PS:
HO
Figure 2

1.1 Location, Access and Physiography

The Marble River property is located on northern Vancouver Island, 20 km south-southeast of Port Hardy (Figs. 1 and 2). It is centered on latitude 50°32'N and longitude 127°27'W.

The property encompasses the Marble River Recreation Site maintained by Western Forest Products Limited. Access to the property is by two-wheel drive vehicle along a public highway linking Port McNeill and Port Alice. An excellent foot path traverses the centre of the property.

Marble River flows from east to west through the centre of the property, and drains into an unnamed inlet southwest of Rupert Inlet. Elevations range from 40-300 m, and slopes are gentle to moderate. Vegetation is open forest and low brush in the central portions of the property. Logging slashes occupy the northern and southern parts of the property. Outcrop is scarce, and is found mostly along Marble River, at rock bluffs and along tributary creek bottoms.

1.2 Summary of Work Done

Fieldwork, consisting of 1:100, 1:250, and 1:5,000 scale geological mapping, prospecting and rock, soil and stream sediment sampling, was performed by R. Zawada, R. Dias and the author.

Tape and compass mapping was carried out using a digitised B.C. Government 1:20,000 topographic map enlarged to 1:2,500 scale. The field maps were compiled at 1:5,000 scale (Plates 1 and 2). A soil grid, laid using hip chain and compass, was established over and south of the two main showings along the south shore of Marble River. An east-west baseline was run at line 1,000 N, and soil samples were collected at 25 metre intervals along north-south lines spaced 100 metres apart. A control line was run at 800N to establish the central portion of the grid.

A total of 56 rock, 7 stream sediment and 237 soil samples were collected and submitted for 30-element ICP and fire assay Cu and Ag analysis to Acme Analytical Laboratories in Vancouver, B.C. Analytical techniques are described in Appendix 1.

1.3 Claim Information

The property is owned by Kennecott Canada Inc. The claims were staked in 1992, and claim information is provided in Table 1 below.

Table 1. Claim Information

Record Number	Claim Name	No. Units	Expiry Date*
311970	Marble Arch 1	16	July 24, 1994
311971	Marble Arch 2	12	July 24, 1994
311972	Marble Arch 3	15	July 24, 1994
311973	Marble Arch 4	12	July 24, 1994

*Note: Expiry dates based on assessment filed in this report.

1.4 Previous Work

The only known work recorded on the property is that by Bothwell (1937), who discovered high grade bornite and chalcopyrite mineralization in basalts located along the south shore of the Marble River (the Bothwell showing, Plate 1). Mapping and chip sampling by Bothwell showed the copper mineralization to extend for 130 metres along the shoreline. In two separate 30 metre long chip sample lines, Bothwell obtained the following results:

Table 2. Rock Chip Sampling Results by Bothwell (1937).

Line	Width	Cu %	Au g/t	Ag g/t
Eastern	30 m	1.9	0.19	17.1
Western	30 m	0.97	0.2	3.7

The Marble River claims were staked by Kennecott Canada Inc. in 1992 after reconnaissance chip sampling in the area by Enns (1992) returned encouraging Cu, Ag and Au assays from basalt at the Bothwell showing described above.

During the present program, some small diameter (AQ) drill core was discovered at the Bothwell showing. Attempts to locate records of this drilling were unsuccessful.

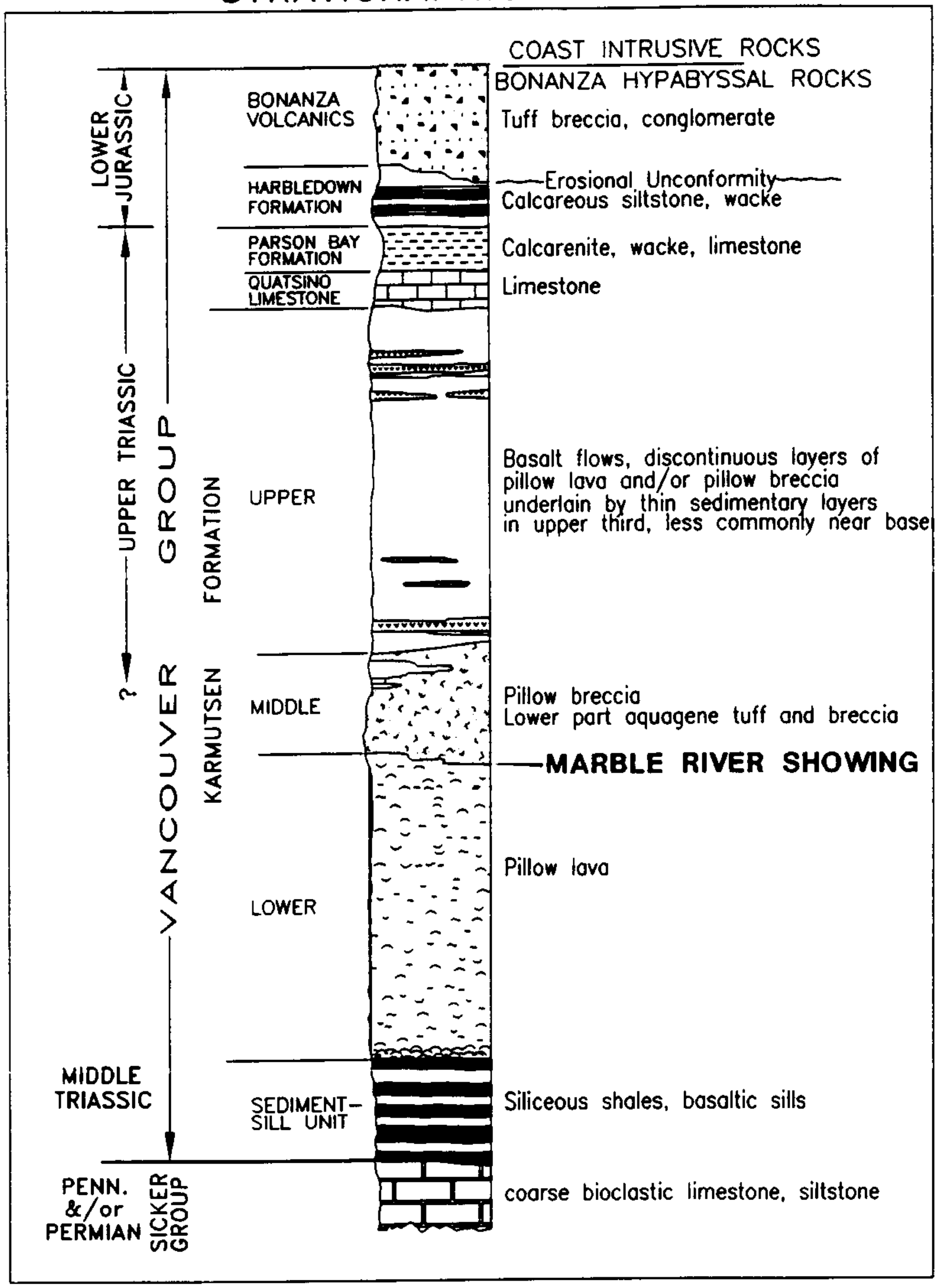
2.0 GEOLOGY

2.1 Regional Geological Setting

The Marble River property lies within the Upper Triassic Karmutsen Formation of the Vancouver Group (Massey and Melville, 1990; Muller et al., 1974; Fig. 1). The Karmutsen Formation is composed of a 200-300 m thick sequence of tholeiitic submarine pillow basalts at the base (Fig. 3). These are overlain by pillow breccias, aquagene tuff and breccia. The upper portion of the Karmutsen Formation is typified by basalt flows, pillow lava and/or pillow breccia and sedimentary rocks. West of the property boundary, Upper Triassic Quatsino Formation limestone overlies the Karmutsen Formation with a steep westerly dip. Regional bedding dips recorded by the B.C. Geological Survey in Karmutsen Formation are moderate to the southwest (Graham Nixon, pers. comm., 1993).

To the north, near Holberg Inlet, and to the east of the property, basalts and andesites of the mid-lower Jurassic Bonanza Group outcrop. These are intruded by co-magmatic Jurassic bodies of the Island Intrusions. North of Holberg Inlet, intrusion of a 180 Ma rhyodacite dyke resulted in the formation of the Island Copper porphyry Cu-Mo-Au deposit, which hosts 283 million tonnes grading 0.52% copper and 0.017% molybdenum.

STRATIGRAPHIC SECTION



after Muller et al. (1974)

Kennecott Canada Inc.
Vancouver

MARBLE RIVER

STRATIGRAPHIC COLUMN

BRITISH COLUMBIA, CANADA

Date: 19/10/93	Author: TH	Figure 3
File: MARPROP	PS:	

MJD

2.2 Property Geology

Geological mapping was carried out over the central portions of the property, near the Bothwell showing. A new showing, referred to as the "Rodrigo showing", was discovered during the course of the present mapping, and is located east of the Bothwell showing south of the Marble River.

2.2.1 Stratigraphy and Structure

The property is underlain by basalt to andesite flows, tuffs, breccias and hyaloclastite of the Karmutsen Formation (Plate 1). Because of the scarcity of outcrop, marker horizons are difficult to discern in the area.

At the Bothwell showing, moderately to strongly silicified and chloritised amygdaloidal and porphyritic basalt flows, tuffs and tuff breccias outcrop. The rocks there are commonly malachite-stained, and commonly contain amygdules filled with bornite and chalcopyrite. The rocks are cut by numerous joints, many of which contain chalcopyrite and bornite. At the Rodrigo showing, interlayered tuffs, tuff-breccias and amygdaloidal flows outcrop. The rocks are less heavily fractured, and weakly mineralized with disseminations and veinlets of chalcopyrite.

Bedding was observed in only a few areas. Where measured, bedding strikes east-northeast to northeast, with moderate southeasterly dips in the central and eastern portions of the property. On the west side of the property, bedding attitudes change to the north-northwest with moderate to steep west dips, mimicking the contact with the overlying Quatsino Formation to the west. This change in structural orientation may reflect either rotation about a northerly striking fault, or folding about a steep, north- to northeast-trending axial plane and subhorizontal fold hinge.

The stratigraphy is disrupted by a series of brittle joints and faults. The dominant joint patterns are shown schematically in Fig. 4. A north-south trending, subvertical set of joints (J1) is thought to be parallel to the bulk extension plane, and appears to control the localization of the bulk of the copper mineralization at the Bothwell showing. A moderately east dipping set (J2) and an associated northeast dipping set (J4), are well developed in the west central portion of the property, and are interpreted to be conjugate to J3 and J6. The acute bisector of J2 and J3 may be the axis of bulk compression for the area. The relationship of joint set J5 to copper mineralization is less clear.

2.2.2 Metamorphism

The metamorphic grade at Marble River is upper zeolite to sub-greenschist. Metamorphic minerals include pervasive quartz, epidote, calcite and chlorite +/- zeolite. Prehnite and pumpellyite, which has been reported at the regional scale (Graham. Nixon, pers. comm., 1993), may also be present but was not visible in field specimens.

2.2.3 Mineralization

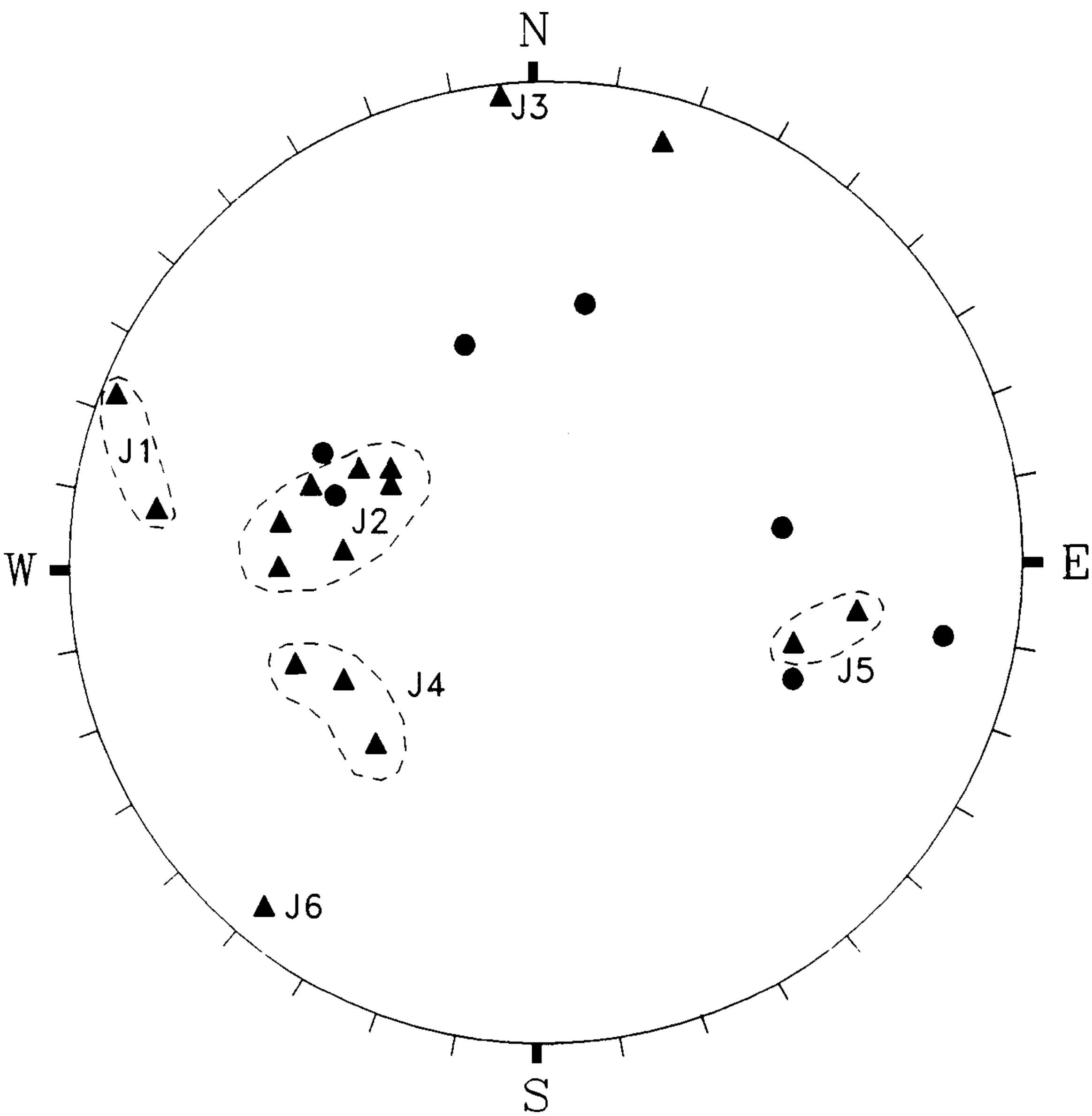
Exposed sulphide mineralization is found mainly along the south bank of Marble River, and consists of pyrite and lesser pyrrhotite in the west, chalcopyrite and bornite in the centre, and pyrite and lesser chalcopyrite with no bornite in the east.

Copper mineralization in the form of chalcopyrite and bornite is found as amygdule fillings; as disseminations and stringers in basaltic flow breccias; along fracture surfaces, and as blebs and veinlets within quartz, epidote and calcite veins. A common association of copper mineralization with quartz, calcite, epidote and zeolite suggests a close genetic relationship.

The Bothwell showing contains the bulk of the copper mineralization found to date on the property (Plate 1). There, copper mineralization outcrops sporadically along the south bank of the Marble River over a 130 metre distance, and consists of bornite and chalcopyrite found in amygdules and fracture fillings. The mineralization ends abruptly to the north, across Marble River, and to the west and east. The southern limits of copper mineralization are covered by overburden.

A new showing of chalcopyrite in basaltic flows and tuff was discovered during the 1993 program (Plate 1). At this showing, chalcopyrite occurs along fracture planes, in basalt flow tops and tuffs, and is commonly associated with calcite and quartz veins. No bornite was observed at this showing.

Rock chip sampling has been carried out over both showings on the property. Results of this sampling are shown in Plate 2 and Appendix 2 and discussed in detail in Chapter 3.



▲ poles to bedding
● poles to jointing
J6 major joint set

Kennecott Canada Inc.
Vancouver

MARBLE RIVER

LOWER HEMISPHERE PLOT OF POLES TO BEDDING AND JOINTS

BRITISH COLUMBIA, CANADA

Date: 20/10/93	Author: TH	Figure 4
File: MAR-NET	PS: 1 = 1	

3.0 GEOCHEMISTRY

A program of rock, soil and stream sediment sampling was carried out on the property in 1993. In total, 56 rock, 244 soil and 7 stream sediment samples were collected and submitted for analysis at Acme Analytical laboratories in Vancouver, B.C. Analytical procedures are described in Appendix 1.

3.1 Rock Geochemistry

Rock chip sampling was concentrated at the two main showings - the Bothwell and the new showing discovered to the east of the Bothwell showing. Chip samples were collected across sample lines oriented north-south across the outcrops at the two showings, and submitted for ICP analysis. Sample locations are shown in Plate 2, and results are shown in Appendix 2.

The contents of Cu, Ag and Au obtained were generally low, except for eight samples, which returned Cu values greater than 0.25%. The same eight samples contained Ag values between 0.9 - 5.9 ppm, and five of these samples contained Au values between 7 - 60 ppb.

The highest copper values obtained were 2.8% and 2.5%, from samples VR00591A and VR00593A, respectively, collected at the Bothwell showing. These samples are rich in bornite and chalcopyrite, which occur as amygdule and fracture fillings. Both samples also contained elevated Ag values up to 5.9 and 4.6 ppm and Au values up to 11 and 8 ppb, respectively. The highest Au value obtained, 60 ppb, was found in a sample, VR00592A, containing 1.9% Cu and 3.4 ppm Ag.

Scatterplots of Cu-Ni, Cr-Ni, Cu-Cr, Cu-Au and Cu-Ag were plotted (Fig. 5) in order to study the metal ratios, and to ascertain the genetic links between the metal contents. While weak correlations exist between Cu and Ni and Cu and Cr, strong Cu - Au and Cu - Ag correlations exist. Because Ni and Cr are thought to originate from the original basaltic magma, these observations suggest that a large proportion of the Cu, Au and Ag mineralization is secondary, as observed in the field.

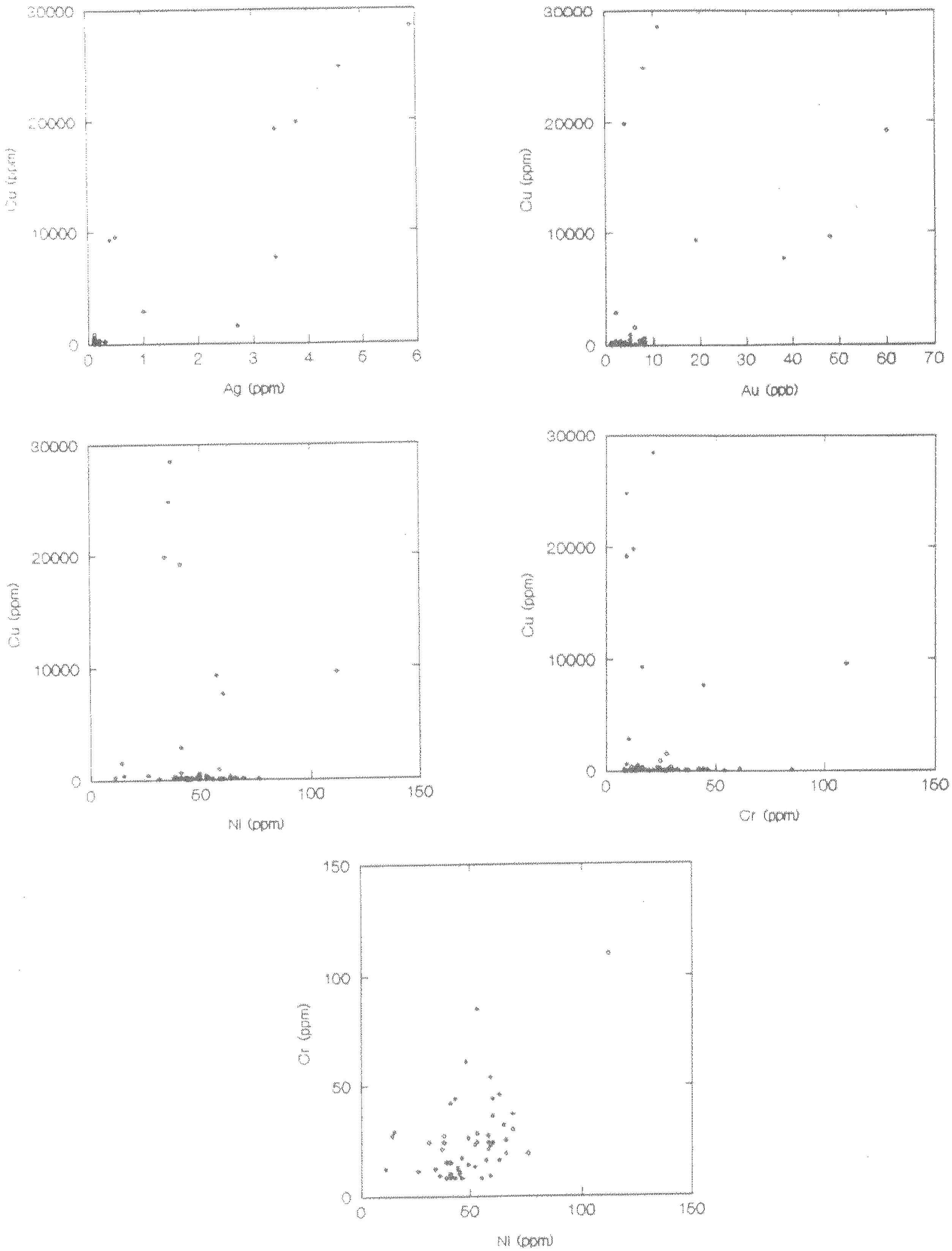


Figure 5 - Scatterplots of Cu-Ni, Cu-Cr, Cu-Au and Cu-Ag in rock samples.

3.2 Soil Geochemistry

Soil sampling was carried out along eleven north-south lines on a soil grid established south of the main showings along the Marble River (Plate 3). The soil samples were collected from the 'B' horizon with a hand auger. 'B' horizon soils on the property are brown to brownish black, and vary in depth from 10 cm to 1 metre below the surface. Thicknesses of the 'B' horizon vary from 20 cm to 1.5 metres, and contain from 10 to 60% organic material. Results from the soil survey are shown in Appendix 3.

Results obtained during the soil sampling program were generally low (Fig. 6). Thresholds based on a visual inspection of the histograms and ICP results for copper, silver and gold were selected as follows: Cu - 100 ppm; Ag - 0.4 ppm; Au - 10 ppb. (Fig. 6). South of the Bothwell showing, only sixteen samples, on lines 500E and 600E, exceeded 100 ppm Cu, while south of the new showing, fifteen samples on lines 1000-1300E exceeded 100 ppm Cu. A bubble plot of Cu in ppm (Plate 4) shows the location of a weak east-west trend to the copper in soil values on the property.

Silver values were similarly low, mostly below 0.1 ppm. The highest silver value, 0.6 ppm, was found at a single location, at 300E, 800N, and was not found to be associated with any copper or gold anomalies.

Gold values in soil exceeding 10 ppb are rare. Elevated gold values are associated with elevated copper and/or silver contents in soil samples collected, and exhibit a weak east-west trend.

Scatterplots with Cu, Au, Ag, Cr and Ni were made in order to study the behaviour of these elements (Fig. 7). Two weak trends towards increasing Au with Cu may be observed, although high Cu values are not always associated with high Au values. Plots of Cu versus Cr and Cu versus Ni show two weak scatters of increasing Cr with Cu. The correlation between Cr and Ni is tighter, and shows a general correspondence between increasing values in both elements.

3.3 Stream Sediment Geochemistry

Seven stream sediment samples were collected and analysed by ICP (Plate 3 and Appendix 4). The Cu values obtained varied between 59 and 101 ppm, with Ag and Au values less than 0.15 ppm and 17 ppb.

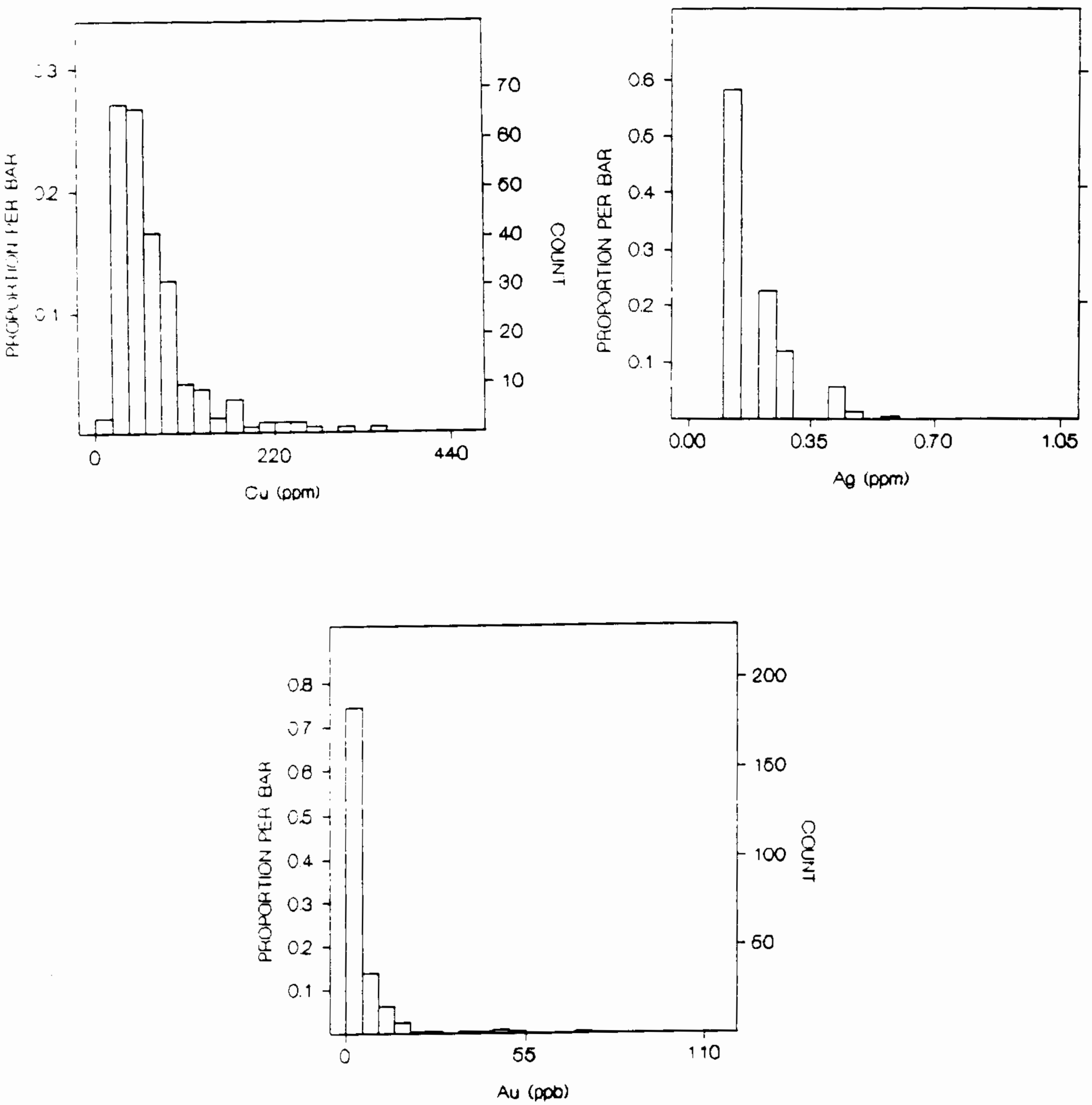


Figure 6 - Histograms of Cu, Au and Ag in soil samples.

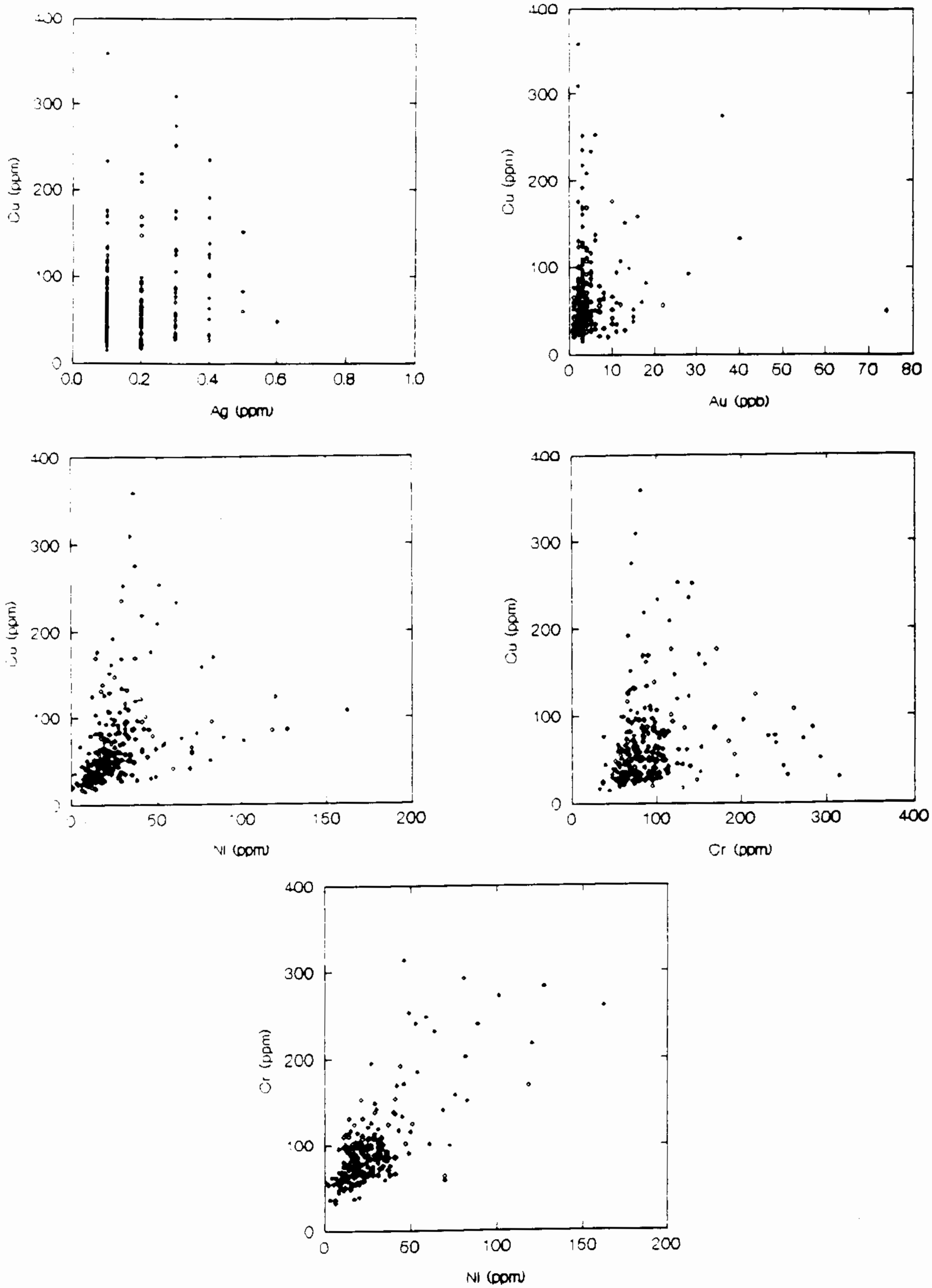


Figure 7 - Scatterplots of Cu-Ni, Cu-Cr, Cr-Ni, Cu-Ag and Cu-Au in soil samples.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The present field program has shown the Karmutsen Formation to be locally copper- and silver-rich. In places, primary accumulations of chalcopyrite and bornite fill amygdules and are surrounded by secondary quartz, suggesting a late-syn depositional formation of copper sulphides. In places, copper mineralization appears to be grossly conformable to bedding, being controlled by lithologic porosity. In other places, copper mineralization is observed to clearly cross-cut primary textures, and to be associated with later hydrothermal solutions coursing through the volcanic pile along brittle joints.

Results from the present mapping and geochemical sampling have shown that copper and silver mineralization, while strongly elevated in some places, is limited in areal extent. In view of the limited potential of the mineralization, further work is not recommended on the property.

5.0 REFERENCES

Bothwell, N.D. 1937: Marble Creek Claims, Vancouver Island; Report 569, Britannia Mining and Smelting Co. Ltd., 6 p.

Enns, S., 1992: 1992 North Vancouver Island reconnaissance; Kennecott Canada Inc., Internal Report, 43 p.

Massey, N.W.D. and Melville, D.M., 1991: Quatsino Sound Project (92L/5,6,11,12); Geological Fieldwork 1990, Paper 1991-1, British Columbia Geological Survey Branch, p. 85-88.

Muller, J.E., Northcote, K.E. and Carlisle, D., 1974: Geology and mineral deposits of Alert Bay- Cape Scott map-area, Vancouver Island, British Columbia; Geological Survey of Canada, Paper 74-8.

6.0 STATEMENT OF EXPENDITURES

Fieldwork Salaries		
T. Heah (7 days @ $240/day)	$1,680.00	
R. Zawada (22 days @ $210/day)	4,620.00	
R. Dias (13 days @ $240/day)	3,120.00	
	Total	$9,420.00
Accommodation and Meals		
Hotel - 18 nights @$55/night)	$ 990.00	
Meals	1,000.00	
	Total	1,990.00
Analyses (Acme Analytical Laboratories, Vancouver)		
300 30-element ICP analyses @ $4.90/sample	$1,470.00	
244 Soil and stream sediment samples prep. @ $1.02	249.65	
56 Rock samples prep. @ $3.38	189.55	
5 Cu and Ag assays @ $9.98	49.90	
	Total	1,959.10
Transportation		
Truck rental - 26 days @ $63.90	$ 1,661.33	
Ferries - 4 trips @ $34.50	138.00	
Gasoline	100.00	
	Total	1,899.33
Field supplies, miscellaneous expenses		500.00
Map reproduction		400.00
Drafting and report writing		2,000.00
	TOTAL	$18,168.43

7.0 STATEMENT OF QUALIFICATIONS

I, Thomas S.T. Heah of Vancouver, British Columbia, do hereby certify that:

1. I have been employed since May, 1991 by Kennecott Canada Inc. with offices at 354-200 Granville Street, Vancouver, B.C., V6C 1S4.

2 I am a graduate of the University of British Columbia (M.Sc. Geology, 1991; B.Sc. Geology, 1982).

3. I am a member in good standing of the Professional Engineers and Geoscientists of British Columbia (Registration No. 19755).

4. I am a Fellow of the Geological Association of Canada.

5. I have practised as a geologist for eleven years.

6. This report is a result of fieldwork and research performed by and overseen by me between August 14 and September 1, 1993.

Dated at Vancouver, B.C., this 24th day of October, 1993.

Thomas S.T. Heah, P. Geo.

APPENDIX 1 - Analytical procedures

The following analytical procedures were used for the ICP and Cu and Ag assays, and are supplied by Acme Analytical by Acme Analytical Laboratories of Vancouver, B.C.

Soil and silt preparation:

The sample is dried at 60 deg. C and sieved to -80 mesh.

Rock preparation:

Rocks are crushed to -3/16" and a 250 gm subsample is split out. This split is pulverized using a ring mill to 99% -100 mesh.

ICP analysis:

A 0.50 gm sample is digested with 3 ml 3:1:2 HCl-HNO3-H2O at 95 deg C for one hour and is diluted to 10 ml with water. This leach is partial for Mn, Fe, Sr, Ca, P, La, Cr, Mg, Ba,Ti, B, W and limited for Na, K, and Al.

Gold analysis (fire geochem.):

10 gm is ignited at 600 deg. C for 4 hours and fused with a F.A. flux. The dore bead is dissolved in Aqua Regia and analysed by ICP.

Detection limit for Au is 1 ppb.

Silver by fire assay:

1/2 assay-ton samples are mixed in dry reagent flux with 1 Ag inquart and fused at 1,000 deg. C for 45 to 60 mins. The resulting Ag bead from cupellation is dissolved in aqua-regia and analyzed by ICP. A wet acid leach for Ag is also run for confirmation.

Assay for Cu and Ag:

In a 250 ml volumetric flask, a 1 gm sample is digested in 50 ml 3:1:2 HCl-HNO3-H20 at 95 deg. C for one hour, diluted to 250 ml with demineralized water, and analyzed by ICP.

APPENDIX 2 - Rock ICP and assay results

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
VR00552A	<1	888	<2	74	.1	58	32	987	5.27	7	<5	<2	<2	26	.3	<2	3	104	3.74	.032	3	24	2.28	8	.21	3	3.53	.02	.01	4	5
VR00553A	3	9597	3	12	.5	112	15	432	3.01	<2	<5	<2	<2	13	4.7	<2	4	38	7.25	.003	<2	110	.41	10	.07	20	3.67	.02	<.01	9	48
VR00554A	<1	119	<2	58	<.1	46	30	580	6.32	4	<5	<2	<2	11	<.2	<2	<2	132	2.91	.041	4	17	1.82	5	.45	8	3.04	.03	<.01	3	4
VR00555A	<1	84	<2	70	<.1	69	32	599	6.13	9	<5	<2	<2	14	<.2	<2	<2	133	3.21	.036	3	30	2.10	9	.47	2	3.45	.03	<.01	4	2
VR00556A	<1	122	<2	67	<.1	65	33	574	5.90	5	<5	<2	<2	13	<.2	<2	3	135	3.15	.038	3	32	2.09	4	.49	15	3.33	.03	<.01	2	3
VR00557A	<1	67	<2	67	<.1	59	32	567	6.08	10	<5	<2	<2	12	<.2	<2	<2	132	3.26	.037	3	23	1.96	4	.46	5	3.33	.03	<.01	3	3
VR00558A	<1	43	4	67	<.1	55	30	645	5.94	6	<5	<2	<2	16	<.2	<2	<2	121	2.95	.034	4	8	1.76	4	.44	6	3.19	.03	.01	2	4
VR00559A	<1	35	<2	76	<.1	45	33	654	6.44	12	<5	<2	<2	15	.4	<2	<2	141	3.96	.043	4	11	2.06	7	.52	839	3.02	.02	.01	2	4
VR00560A	<1	89	<2	63	<.1	63	32	543	6.04	7	<5	<2	<2	15	<.2	<2	<2	148	3.59	.036	3	46	1.90	7	.47	12	3.47	.03	<.01	4	3
VR00561A	<1	56	<2	83	<.1	69	37	694	6.54	8	<5	<2	<2	14	<.2	<2	<2	136	2.76	.039	3	37	2.66	7	.45	6	3.70	.02	.01	2	2
VR00562A	<1	111	<2	62	<.1	53	30	499	6.20	7	<5	<2	<2	16	<.2	<2	3	137	3.83	.039	4	24	1.55	6	.46	10	3.38	.03	<.01	3	4
VR00563A	<1	85	3	69	<.1	60	31	644	6.02	8	<5	<2	<2	21	<.2	<2	<2	122	3.83	.036	4	24	1.92	5	.45	435	3.45	.02	<.01	1	4
VR00564A	<1	52	3	72	<.1	66	32	639	6.15	16	<5	<2	<2	23	<.2	<2	<2	125	3.82	.038	4	25	2.02	4	.48	16	3.64	.03	<.01	2	3
VR00565A	<1	48	2	70	<.1	76	32	673	6.20	11	<5	<2	<2	20	.2	<2	<2	124	3.20	.037	4	19	2.01	10	.48	15	3.50	.03	<.01	2	4
VR00566A	<1	28	<2	62	<.1	49	27	593	6.07	9	<5	<2	<2	13	<.2	<2	<2	126	3.26	.039	4	26	1.67	10	.48	19	3.21	.03	<.01	3	3
VR00567A	<1	50	3	70	.1	40	29	637	6.45	7	<5	<2	<2	13	<.2	<2	<2	135	3.24	.043	4	15	1.73	4	.51	8	3.29	.03	<.01	2	3
VR00568A	<1	66	<2	68	<.1	58	30	627	6.38	8	<5	<2	<2	16	<.2	<2	<2	142	3.56	.041	4	21	1.71	9	.51	18	3.43	.03	<.01	3	3
VR00569A	<1	57	3	74	<.1	60	36	598	6.63	14	<5	<2	<2	13	.6	<2	<2	149	3.90	.042	3	36	2.03	2	.49	125	3.74	.02	<.01	2	4
VR00570A	<1	20	<2	65	<.1	59	31	626	6.31	14	<5	<2	<2	14	.6	<2	<2	126	3.15	.039	4	9	1.95	6	.43	8	3.39	.03	.01	2	3
VR00571A	<1	415	4	106	<.1	49	39	893	7.89	29	<5	<2	<2	20	<.2	<2	9	212	3.12	.043	4	14	2.38	21	.65	11	3.68	.03	<.01	3	7
VR00572A	1	531	<2	75	<.1	49	34	710	6.60	19	<5	<2	<2	19	.4	<2	6	162	3.42	.044	5	14	1.90	10	.58	16	3.34	.03	.01	2	5
VR00573A	<1	302	5	70	<.1	63	29	795	5.94	5	<5	<2	<2	19	<.2	<2	<2	118	2.48	.039	4	16	1.88	8	.30	7	3.07	.03	.01	2	8
VR00574A	<1	74	3	71	<.1	66	30	845	6.09	11	<5	<2	<2	15	<.2	<2	<2	101	2.73	.039	4	19	1.73	18	.27	4	3.34	.03	.01	2	5
VR00575A	1	48	8	62	.1	44	30	696	6.78	9	<5	<2	<2	12	<.2	<2	<2	128	3.64	.043	4	13	1.71	5	.35	10	3.39	.03	.01	3	8
VR00576A	<1	39	2	69	<.1	58	37	869	6.59	9	<5	<2	<2	13	<.2	<2	<2	154	4.90	.042	3	27	1.94	<2	.32	5	4.43	.01	.01	3	3
VR00577A	<1	153	3	55	<.1	48	29	705	6.02	8	<5	<2	<2	16	<.2	<2	<2	162	4.27	.041	2	61	1.43	7	.40	7	3.46	.03	.01	3	3
VR00578A	1	395	8	60	.1	26	21	690	5.59	5	<5	<2	<2	12	.4	<2	2	153	7.84	.040	4	11	1.41	3	.39	20	5.45	.01	<.01	3	3
RE VR00578A	<1	395	5	60	<.1	27	22	682	5.56	7	<5	<2	<2	12	.5	<2	<2	153	7.86	.040	4	11	1.39	2	.39	18	5.45	.01	<.01	4	5
VR00579A	1	348	3	71	<.1	52	26	688	6.08	11	<5	<2	<2	10	.4	<2	<2	127	2.84	.037	3	23	1.94	6	.35	5	3.07	.03	<.01	2	2
VR00580A	1	67	<2	92	.1	52	39	722	7.95	11	<5	<2	<2	10	<.2	<2	<2	165	3.21	.043	4	13	2.27	3	.46	9	3.67	.03	.01	1	5
VR00581A	1	78	7	29	<.1	31	17	462	5.02	4	<5	<2	<2	20	<.2	<2	2	106	5.11	.033	2	24	1.01	4	.36	9	3.12	.01	<.01	2	4
VR00582A	1	103	<2	48	<.1	44	25	686	5.35	5	<5	<2	<2	23	<.2	<2	2	108	4.18	.041	3	12	1.22	5	.34	18	2.78	.03	.01	2	5
VR00583A	<1	66	<2	69	<.1	45	30	1210	6.18	<2	<5	<2	<2	23	<.2	<2	<2	121	3.38	.043	4	10	1.61	10	.45	16	3.14	.03	.01	2	6
VR00584A	<1	81	<2	71	<.1	46	29	1256	6.36	6	<5	<2	<2	16	.4	<2	<2	117	2.92	.043	4	8	1.59	14	.40	15	2.97	.03	.01	3	4
VR00585A	1	602	18	73	<.1	41	18	819	3.81	4	<5	<2	<2	13	<.2	3	<2	90	2.77	.031	3	9	1.47	11	.46	18	2.32	.04	.01	1	8
VR00586A	<1	89	<2	42	<.1	38	24	524	5.19	12	<5	<2	<2	18	.4	<2	<2	122	5.80	.034	2	27	1.33	<2	.26	6	4.40	.01	<.01	3	5
VR00587A	<1	128	<2	71	.1	41	24	833	5.90	4	<5	<2	<2	23	<.2	<2	<2	110	3.26	.036	3	15	1.86	<2	.29	9	3.61	.02	.01	2	7
STANDARD C/AU-R	18	58	37	127	6.5	66	28	1054	3.96	37	19	6	36	50	16.8	14	20	54	.49	.085	37	56	.87	184	.09	38	1.88	.06	.14	12	460

Sample type: ROCK. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
VR00588A	<1	17	3	48	.2	59	27	557	3.83	<2	<5	<2	<2	174	<.2	<2	<2	83	4.20	.028	2	54	2.20	<2	.47	3	2.07	.02	<.01	1	3
VR00589A	<1	58	3	71	.2	39	30	664	6.54	<2	<5	<2	<2	30	.3	<2	<2	144	3.25	.038	4	15	2.14	2	.41	5	3.16	.04	<.01	<1	5
VR00590A	4	9348	4	65	.4	57	32	574	5.87	<2	<5	<2	<2	10	1.1	<2	4	133	3.93	.037	3	16	1.63	4	.39	9	3.49	.04	<.01	<1	19
VR00591A	12	28458	4	86	5.9	37	21	560	6.37	<2	<5	<2	<2	10	2.8	<2	6	118	4.98	.039	2	21	1.65	2	.33	11	4.12	.01	<.01	<1	11
VR00592A	3	19230	4	86	3.4	41	23	721	6.10	<2	<5	<2	<2	16	2.6	<2	<2	116	2.52	.042	4	9	1.58	9	.50	8	2.43	.05	.02	<1	60
VR00593A	2	24811	3	83	4.6	36	22	726	6.47	2	<5	<2	<2	13	3.4	<2	<2	118	3.68	.046	3	9	1.54	7	.43	10	3.10	.04	.01	<1	8
VR00594A	4	19854	3	77	3.8	34	21	700	6.16	5	<5	<2	<2	20	3.6	5	<2	108	3.79	.040	3	12	1.46	12	.36	10	3.04	.09	.04	<1	4
VR00595A	1	2903	2	70	1.0	41	26	656	5.77	5	<5	<2	<2	31	.5	<2	<2	137	2.89	.039	4	10	1.62	17	.58	13	2.91	.28	.03	<1	2
RE VR00595A	1	2898	2	71	.9	42	27	663	5.83	4	<5	<2	<2	32	.6	<2	<2	138	2.93	.039	4	10	1.65	18	.58	14	2.93	.28	.04	<1	2
VR00601A	1	228	3	76	<.1	11	18	581	5.30	<2	<5	<2	2	13	<.2	<2	<2	58	.12	.008	8	12	.59	23	.17	3	1.79	.06	.05	<1	1
VR00602A	1	398	6	90	.2	15	10	661	5.78	<2	<5	<2	<2	126	.3	<2	<2	25	2.63	.015	7	29	.47	35	.09	3	4.40	.34	.10	1	2
VR00603A	<1	166	2	91	<.1	41	26	836	5.91	<2	<5	<2	<2	17	.2	<2	<2	135	1.78	.038	5	8	2.31	9	.66	7	2.55	.08	.02	<1	3
VR00604A	<1	250	2	46	<.1	53	22	591	4.40	<2	<5	<2	<2	31	.4	<2	<2	94	2.49	.026	2	28	2.02	12	.38	9	2.57	.35	.02	1	2
VR00605A	<1	259	2	52	.3	38	23	507	5.10	19	<5	<2	2	38	.2	<2	<2	144	3.67	.032	4	24	2.00	11	.55	15	2.64	.05	.01	<1	4
VR00606A	<1	171	4	58	.1	43	24	596	5.35	<2	<5	<2	<2	33	.2	<2	<2	156	4.26	.033	4	44	1.99	14	.59	16	3.23	.10	.01	<1	2
VR00607A	<1	163	3	60	.1	41	24	589	5.54	13	<5	<2	<2	32	.3	<2	<2	162	3.76	.038	4	42	2.15	17	.65	19	2.85	.12	.01	<1	2
STANDARD C/AU-R	18	58	39	126	7.2	70	30	998	3.96	39	18	6	36	52	18.2	14	21	55	.49	.086	39	57	.92	183	.09	35	1.88	.09	.16	12	490

Sample type: ROCK. Samples beginning 'RE' are duplicate samples.

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL/ASSAY CERTIFICATE

Kennecott Canada Inc. File # 93-2078 Page 1

354 - 200 Granville St., Vancouver BC V6C 1S4 Submitted by: Sandra Bishop

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb	Cu %	Ag oz/t
VR01852A	<1	39	<2	57	<.1	43	24	578	5.80	<2	<5	<2	<2	12	.4	<2	<2	151	3.47	.038	6	8	1.62	4	.63	10	2.89	.07	.01	<1	1	.012	<.01
VR01853A	1	7690	<2	57	3.4	60	26	645	5.29	2	<5	<2	<2	30	1.7	<2	<2	155	6.39	.037	3	44	1.73	5	.38	11	4.02	.03	.01	<1	38	.882	.11
VR01854A	<1	153	<2	73	<.1	39	26	792	5.55	<2	<5	<2	<2	16	.6	<2	<2	127	3.18	.035	5	8	1.82	5	.52	19	3.37	.06	<.01	<1	2	.017	.01
VR01858A	<1	100	<2	35	<.1	53	20	424	5.00	<2	<5	<2	<2	22	.3	<2	<2	96	2.97	.029	2	85	.93	19	.21	15	2.22	.07	.05	1	<1	.011	.02
VR01860A	4	1568	<2	124	2.7	14	17	597	4.33	8	<5	<2	2	37	1.2	<2	2	42	1.47	.034	5	27	.98	37	.01	4	2.07	.09	.23	<1	6	.176	.07
RE VR01860A	4	1577	<2	123	2.7	13	17	596	4.31	10	<5	<2	<2	37	1.3	3	<2	42	1.46	.034	5	26	.97	36	.01	5	2.05	.08	.23	1	5	.180	.05

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: P1 ROCK P2 TO P5 SOIL P6 SEDIMENT AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE. CU & AG BY REGULAR ASSAY ICP.
Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: AUG 23 1993 **DATE REPORT MAILED:** Aug 27/93. **SIGNED BY**.......... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

APPENDIX 3 - Soil ICP results

ACME ANALYTICAL

Kennecott Canada Inc. FILE # 93-2078

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
MR 100E 1125N	<1	58	<2	39	<.1	24	8	278	8.07	<2	<5	<2	<2	22	<.2	<2	<2	217	.69	.026	5	95	.36	20	.69	6	3.84	.02	<.01	1	4
MR 100E 1100N	<1	39	<2	51	<.1	20	8	314	8.01	<2	<5	<2	<2	16	<.2	<2	<2	204	.52	.033	3	97	.26	18	.63	5	4.47	.02	.01	1	5
MR 100E 1075N	<1	35	<2	37	<.1	12	4	281	9.11	<2	<5	<2	<2	12	<.2	<2	<2	223	.39	.030	7	113	.16	11	.67	5	3.82	.01	.01	<1	4
MR 100E 1050N	<1	38	<2	50	.1	22	21	686	7.87	<2	<5	<2	<2	21	<.2	<2	<2	201	.73	.041	5	111	.36	19	.62	6	4.09	.02	.01	1	15
MR 100E 1025N	<1	52	<2	55	.1	29	15	759	7.65	<2	<5	<2	<2	14	<.2	<2	<2	183	.68	.038	8	108	.50	11	.61	7	4.83	.02	.01	1	3
MR 100E 1000N	<1	49	<2	53	.1	25	15	906	7.54	<2	<5	<2	<2	14	<.2	<2	<2	178	.65	.049	4	107	.45	11	.58	7	5.06	.02	.01	<1	3
MR 100E 975N	<1	36	<2	66	.2	21	23	974	9.91	<2	<5	<2	<2	9	<.2	<2	<2	186	.63	.079	9	152	.26	15	.48	9	5.57	.02	<.01	2	2
MR 100E 950N	<1	27	<2	54	.1	29	17	597	11.04	<2	<5	<2	<2	12	<.2	<2	<2	196	.54	.053	4	148	.37	15	.59	5	3.77	.02	.01	<1	2
MR 100E 925N	<1	49	<2	54	.2	22	16	1119	7.41	<2	<5	<2	<2	13	<.2	<2	<2	176	.71	.050	5	107	.41	12	.58	6	3.41	.01	.01	<1	3
MR 100E 900N	<1	44	<2	95	.2	22	36	4568	11.43	<2	<5	<2	<2	9	<.2	<2	<2	219	1.14	.142	4	131	.39	17	.57	6	3.38	.02	.02	<1	2
MR 100E 875N	<1	38	<2	77	.1	29	20	881	11.65	<2	<5	<2	<2	9	<.2	<2	<2	243	1.02	.062	6	113	.30	21	.66	5	3.56	.01	.01	<1	3
MR 100E 850N	<1	35	<2	62	.2	17	17	867	11.88	<2	<5	<2	<2	8	.2	<2	<2	268	1.15	.101	2	90	.37	19	.81	6	2.27	.02	.03	<1	1
MR 100E 800N	<1	17	3	26	.2	6	5	422	3.73	<2	<5	<2	<2	14	<.2	2	2	94	.48	.020	3	32	.07	12	.44	4	.74	.02	.01	<1	3
MR 100E 775N	<1	22	<2	28	.2	9	1	189	6.60	<2	<5	<2	<2	19	<.2	3	<2	161	.47	.038	3	56	.16	11	.51	5	1.79	.02	.01	1	3
MR 100E 725N	<1	64	<2	59	.2	49	9	588	7.88	<2	<5	<2	<2	21	<.2	<2	<2	183	.60	.032	2	90	.47	32	.57	5	3.28	.02	.02	<1	8
MR 100E 700N	<1	34	<2	42	<.1	35	13	1022	5.76	<2	<5	<2	<2	18	<.2	2	<2	139	.69	.028	2	59	.57	25	.44	6	2.09	.03	.03	1	2
MR 100E 675N	<1	58	<2	49	.1	34	10	245	6.59	<2	<5	<2	<2	17	<.2	<2	<2	143	.65	.034	2	75	.53	17	.53	4	3.57	.02	.02	<1	1
MR 100E 650N	<1	66	<2	56	.2	70	18	314	6.28	<2	<5	<2	2	14	<.2	<2	<2	129	.44	.026	2	63	.74	27	.36	5	3.35	.02	.02	<1	10
MR 100E 625N	<1	51	<2	58	.1	34	11	382	7.13	<2	<5	<2	<2	16	<.2	<2	<2	172	.87	.034	2	75	.60	24	.58	6	2.35	.02	.02	<1	6
MR 100E 600N	<1	28	<2	36	.1	15	3	220	9.92	2	<5	<2	<2	18	<.2	<2	<2	272	.57	.029	2	87	.29	15	.81	5	1.68	.01	.01	1	3
MR 100E 575N	<1	87	<2	58	.1	36	13	304	7.65	<2	<5	<2	<2	20	<.2	<2	<2	193	.65	.028	3	89	.62	20	.59	5	3.11	.02	.02	<1	5
MR 100E 550N	<1	75	<2	64	.4	37	18	1102	5.42	2	<5	<2	<2	29	.2	3	<2	152	.85	.023	4	85	.69	26	.47	6	2.70	.02	.02	1	2
MR 100E 525N	<1	49	<2	35	.2	36	12	216	9.00	<2	<5	<2	<2	15	<.2	<2	<2	235	.39	.032	2	91	.44	27	.65	5	3.21	.02	.02	1	2
RE MR 100E 525N	<1	49	<2	35	.1	36	12	205	9.01	<2	<5	<2	<2	15	<.2	<2	<2	235	.38	.032	2	92	.44	27	.65	5	3.22	.02	.01	1	3
MR 200E 1100N	<1	62	<2	46	.1	18	13	395	6.59	5	<5	<2	<2	31	<.2	3	<2	158	.63	.042	8	66	.30	31	.45	7	4.81	.02	.02	2	2
MR 200E 1075N	<1	34	<2	33	.2	13	6	265	8.25	<2	<5	<2	<2	25	<.2	<2	<2	214	.51	.030	4	58	.18	24	.60	5	1.72	.02	<.01	<1	3
MR 200E 1050N	<1	57	<2	45	<.1	16	10	592	6.77	<2	<5	<2	<2	15	<.2	<2	<2	182	.44	.046	4	64	.27	16	.56	6	2.98	.02	.01	1	3
MR 200E 1025N	<1	45	<2	34	<.1	15	7	446	6.14	3	<5	<2	<2	15	.2	<2	<2	134	.48	.045	4	56	.30	17	.47	6	3.10	.02	.01	1	3
MR 200E 1000N	<1	107	<2	69	.1	21	20	6789	6.57	<2	<5	<2	<2	17	.2	<2	<2	151	.62	.105	19	93	.29	39	.39	5	3.21	.01	.01	<1	12
MR 200E 975N	<1	94	<2	58	.2	16	17	8003	5.59	<2	<5	<2	<2	19	.3	<2	<2	165	.75	.085	21	66	.20	53	.36	6	2.48	.01	.02	<1	11
MR 200E 950N	<1	95	<2	63	.1	41	20	1435	4.74	4	<5	<2	<2	21	.2	<2	<2	120	1.33	.070	9	66	1.06	14	.37	7	3.51	.02	.02	1	5
MR 200E 800N	<1	36	<2	51	.2	14	8	1110	7.94	2	<5	<2	<2	19	<.2	3	<2	194	.60	.039	3	71	.19	19	.68	6	1.71	.02	.02	<1	2
MR 200E 775N	<1	44	<2	42	<.1	20	10	782	4.79	4	<5	<2	<2	21	<.2	<2	<2	132	.96	.036	2	39	.82	13	.43	7	1.67	.02	.02	1	2
MR 200E 750N	<1	60	<2	58	.1	28	12	378	6.24	<2	6	<2	<2	20	.2	<2	<2	154	.66	.044	4	65	.56	14	.52	6	3.43	.02	.02	<1	5
MR 200E 725N	<1	26	<2	37	.1	14	5	295	7.57	<2	<5	<2	<2	18	<.2	<2	<2	241	1.01	.029	2	72	.37	12	.78	5	1.79	.02	.01	<1	11
STANDARD C/AU-S	17	60	38	128	7.0	70	31	1039	3.96	40	23	7	36	52	18.8	14	20	57	.51	.086	40	59	.91	184	.09	34	1.88	.09	.16	11	48

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.
AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
MR 200E 700N	<1	28	2	25	.2	9	1	188	5.16	3	<5	<2	<2	23	<.2	3	<2	183	.70	.017	2	51	.28	9	.69	7	1.33	.03	.01	1	13
MR 200E 675N	<1	45	<2	41	.3	16	13	372	7.57	2	<5	<2	<2	24	<.2	<2	<2	188	.64	.038	3	64	.39	20	.68	6	2.15	.02	.01	<1	3
MR 200E 650N	<1	46	<2	49	.2	20	6	227	6.06	2	<5	<2	<2	22	<.2	<2	<2	151	.60	.028	2	54	.44	17	.57	5	2.74	.03	.01	<1	2
MR 200E 625N	<1	35	<2	30	.2	13	3	211	6.38	<2	<5	<2	<2	23	<.2	<2	<2	182	.64	.024	2	58	.34	14	.61	5	1.84	.03	<.01	<1	5
MR 200E 600N	<1	28	<2	30	.2	11	2	190	8.77	<2	<5	<2	<2	28	<.2	<2	<2	260	.68	.041	2	80	.21	13	.84	5	1.58	.02	.01	<1	3
MR 200E 575N	<1	27	<2	48	.4	19	6	379	8.61	2	<5	<2	<2	22	<.2	<2	<2	221	.84	.035	2	86	.35	18	.77	5	2.39	.03	<.01	1	3
MR 200E 550N	<1	169	<2	59	.2	37	16	407	6.95	3	<5	<2	<2	28	.2	<2	<2	158	.72	.031	3	84	.85	19	.54	6	3.96	.02	.01	<1	4
MR 200E 525N	<1	56	<2	58	.3	22	8	297	7.42	<2	7	<2	<2	20	<.2	<2	<2	170	.53	.036	3	77	.36	17	.58	5	3.39	.02	.01	<1	7
MR 200E 500N	<1	52	2	56	.2	26	10	293	7.76	2	<5	<2	<2	18	<.2	<2	<2	185	.56	.034	3	83	.43	17	.60	5	2.92	.02	.02	<1	10
MR 300E 1075N	<1	61	<2	38	.1	14	4	166	8.95	<2	<5	<2	<2	24	<.2	<2	<2	230	.50	.022	4	74	.16	16	.65	4	3.25	.02	.01	<1	2
MR 300E 1050N	<1	30	2	39	<.1	15	2	263	9.82	<2	<5	<2	<2	23	<.2	<2	<2	337	.43	.034	2	90	.22	25	.85	4	1.59	.03	.01	<1	2
MR 300E 1025N	<1	74	<2	55	.1	21	16	634	10.33	<2	<5	<2	<2	19	.2	<2	<2	229	.59	.052	4	103	.28	21	.75	5	4.08	.02	.01	<1	2
MR 300E 1000N	<1	116	<2	48	.1	31	15	603	5.81	2	<5	<2	<2	21	<.2	<2	<2	145	.87	.031	5	65	.85	19	.48	6	3.25	.02	.02	<1	5
MR 300E 975N	<1	69	<2	56	<.1	28	13	601	6.12	<2	<5	<2	<2	18	.2	2	<2	155	.60	.061	5	74	.58	16	.50	6	4.68	.02	.01	1	2
MR 300E 950N	<1	111	<2	68	.1	31	21	603	8.48	<2	<5	<2	<2	18	.2	<2	<2	197	.69	.068	9	92	.49	20	.63	6	5.19	.02	<.01	<1	4
MR 300E 925N	<1	91	<2	73	.1	27	17	646	8.64	<2	<5	<2	<2	19	<.2	<2	<2	207	.83	.058	6	70	.48	18	.67	5	3.44	.02	.01	<1	3
MR 300E 900N	<1	97	<2	68	.1	25	20	885	9.55	<2	<5	<2	<2	14	.3	<2	<2	234	.74	.072	7	95	.37	23	.73	5	3.95	.02	.01	<1	3
MR 300E 875N	<1	24	<2	36	.2	11	2	332	9.17	3	<5	<2	<2	16	<.2	2	<2	283	.62	.039	2	75	.19	14	.90	4	1.50	.03	.01	<1	3
RE MR 300E 875N	<1	23	<2	35	.2	11	2	329	9.10	3	<5	<2	<2	15	<.2	3	<2	282	.61	.039	2	74	.19	14	.89	4	1.45	.02	.02	1	3
MR 300E 850N	<1	132	<2	57	.1	32	19	539	6.39	2	<5	<2	<2	23	.2	<2	<2	171	.70	.045	8	72	.76	16	.52	5	5.24	.04	.02	<1	6
MR 300E 825N	<1	49	<2	46	.1	17	10	450	8.46	2	<5	<2	<2	14	.2	<2	<2	235	.70	.051	8	81	.33	18	.75	4	2.93	.02	.01	1	3
MR 300E 800N	<1	48	<2	41	.6	15	9	391	4.42	7	<5	<2	2	12	1.3	5	<2	111	.38	.042	5	51	.25	21	.33	6	2.07	.01	.02	2	4
MR 300E 775N	<1	70	<2	52	.2	23	13	409	6.99	<2	7	<2	<2	19	<.2	<2	<2	181	.47	.036	7	66	.40	29	.51	4	3.65	.03	.02	<1	4
MR 300E 750N	<1	66	<2	58	.2	25	11	331	7.02	<2	6	<2	<2	15	<.2	<2	<2	179	.48	.035	4	74	.41	21	.52	4	5.18	.02	.01	<1	3
MR 300E 725N	<1	50	<2	52	.1	19	13	529	7.29	<2	<5	<2	<2	22	<.2	<2	<2	189	.61	.031	4	67	.32	31	.56	3	3.31	.03	.01	<1	2
MR 300E 700N	<1	51	<2	45	.1	15	6	326	9.81	7	<5	<2	<2	19	<.2	<2	<2	264	.51	.041	3	81	.31	19	.76	3	3.10	.03	.01	1	2
MR 300E 675N	<1	44	<2	54	.2	17	11	720	6.91	<2	<5	<2	<2	21	<.2	<2	<2	168	.49	.062	3	62	.33	21	.51	4	2.76	.03	.01	<1	1
MR 300E 650N	<1	21	2	44	.2	10	4	392	7.70	<2	<5	<2	<2	13	<.2	<2	<2	192	.20	.049	4	61	.13	16	.55	4	2.53	.02	.01	<1	7
MR 300E 625N	<1	26	<2	50	.1	18	9	588	7.69	3	<5	<2	<2	20	.2	<2	<2	208	.74	.051	2	79	.42	14	.62	4	2.33	.02	.02	<1	4
MR 300E 600N	<1	15	2	30	<.1	8	6	296	5.96	3	<5	<2	<2	21	<.2	<2	<2	176	.37	.031	3	44	.19	22	.57	4	1.24	.02	.01	<1	3
MR 300E 575N	<1	45	<2	42	.1	18	8	279	6.02	2	<5	<2	<2	17	<.2	<2	<2	152	.45	.047	3	54	.49	17	.49	5	3.27	.02	.02	<1	5
MR 300E 550N	<1	42	<2	44	<.1	19	7	262	5.84	2	<5	<2	<2	20	<.2	<2	<2	147	.51	.032	2	56	.50	18	.52	5	2.96	.03	.01	1	3
MR 300E 525N	<1	27	<2	37	.1	15	4	209	7.70	3	<5	<2	<2	18	.2	2	<2	217	.45	.031	2	74	.28	15	.67	4	2.44	.02	.01	<1	2
MR 300E 500N	<1	41	2	36	<.1	15	4	174	6.61	2	<5	<2	<2	17	<.2	<2	<2	178	.44	.025	3	74	.32	15	.52	4	2.60	.03	.01	<1	2
MR 400E 1025N	<1	95	<2	50	.1	32	12	290	9.75	<2	<5	<2	<2	23	<.2	<2	<2	242	.66	.028	3	85	.54	13	.65	3	3.62	.02	.01	<1	3
STANDARD C/AU-S	17	59	38	127	6.7	70	30	1044	3.96	39	14	7	34	52	18.3	14	20	57	.51	.086	39	58	.91	184	.09	34	1.88	.09	.16	11	52

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.
AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

Kennecott Canada Inc. FILE # 93-2078

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
MR 400E 1000N	<1	82	<2	70	.3	73	23	492	8.58	<2	<5	<2	<2	15	<.2	<2	<2	162	.85	.037	4	99	.97	14	.53	3	4.95	.01	<.01	<1	4
MR 400E 975N	<1	42	<2	43	.3	69	10	293	7.63	<2	<5	<2	<2	16	<.2	<2	<2	184	.54	.022	2	140	.79	16	.44	2	3.04	.01	<.01	1	2
MR 400E 950N	<1	70	3	75	.3	30	20	435	9.60	<2	6	<2	<2	14	<.2	<2	2	188	.76	.040	3	84	.42	11	.64	2	5.53	.02	.02	<1	8
MR 400E 925N	<1	58	<2	62	.3	31	15	376	8.90	<2	<5	<2	<2	21	.2	2	<2	226	1.02	.037	4	79	.62	18	.73	4	4.09	.02	<.01	1	2
MR 400E 900N	<1	33	2	35	.4	8	1	141	6.36	<2	<5	<2	<2	27	<.2	2	<2	220	.67	.023	2	47	.19	20	.60	3	1.11	.02	<.01	<1	1
MR 400E 825N	<1	52	2	45	.1	17	15	486	6.49	2	<5	<2	<2	10	<.2	<2	3	134	.32	.133	9	74	.31	12	.41	5	5.55	.02	<.01	2	1
MR 400E 800N	<1	28	<2	41	.3	18	6	335	6.96	2	<5	<2	<2	13	<.2	<2	<2	207	1.08	.039	2	54	.53	11	.70	4	2.81	.02	.01	1	1
RE MR 400E 800N	<1	26	2	40	.2	17	6	327	6.84	<2	<5	<2	<2	13	<.2	<2	<2	203	1.07	.038	3	54	.52	11	.69	3	2.73	.02	.01	<1	2
MR 400E 775N	<1	41	<2	60	.2	24	12	416	9.55	<2	<5	<2	<2	11	<.2	<2	<2	215	.86	.070	4	86	.52	13	.72	<2	4.33	.01	.01	<1	2
MR 400E 750N	<1	20	<2	42	.2	12	1	282	11.06	<2	<5	<2	<2	13	<.2	<2	<2	268	.67	.057	2	95	.24	14	.83	<2	2.92	.01	<.01	<1	1
MR 400E 725N	<1	77	<2	53	.3	33	11	288	6.82	<2	<5	<2	<2	16	.2	<2	<2	172	.84	.024	3	73	.60	17	.60	5	4.25	.02	.01	1	2
MR 400E 700N	<1	103	2	45	.4	14	5	298	8.85	<2	<5	<2	<2	22	<.2	<2	<2	199	.47	.036	4	77	.28	14	.68	2	3.56	.02	.01	1	3
MR 400E 675N	<1	54	<2	42	.3	21	5	257	6.48	4	<5	<2	<2	19	<.2	2	<2	192	.83	.072	3	57	.57	19	.60	4	2.11	.02	.01	1	3
MR 400E 650N	<1	49	2	46	.1	17	4	173	7.71	<2	<5	<2	<2	14	<.2	<2	<2	206	.53	.038	2	70	.34	11	.65	2	3.20	.02	.01	<1	5
MR 400E 625N	<1	50	2	37	.3	16	2	207	9.95	<2	<5	<2	<2	16	<.2	2	<2	320	.63	.043	2	84	.30	13	.92	2	2.54	.02	.01	1	5
MR 400E 600N	<1	26	<2	33	.1	9	<1	236	6.89	<2	<5	<2	<2	21	<.2	<2	<2	305	.65	.027	3	60	.18	15	.97	4	1.12	.02	.01	1	2
MR 400E 575N	<1	35	<2	42	.3	18	6	312	7.28	2	<5	<2	<2	25	<.2	2	<2	205	.66	.042	3	78	.36	12	.67	4	2.43	.02	.01	1	6
MR 400E 550N	<1	49	2	51	.1	24	9	577	6.90	<2	<5	<2	<2	26	<.2	<2	<2	201	.85	.066	3	79	.59	13	.65	2	2.87	.02	.01	<1	7
MR 400E 525N	<1	56	<2	71	.2	34	15	942	7.67	<2	<5	<2	<2	37	.2	<2	<2	213	1.05	.069	4	101	.70	19	.70	3	3.36	.02	.01	<1	22
MR 400E 500N	<1	35	2	70	.2	31	17	469	7.44	2	<5	<2	<2	24	.2	<2	<2	166	.96	.056	3	103	.59	19	.64	3	4.09	.02	.01	<1	2
MR 500E 1000N	<1	359	2	47	.1	36	18	2390	4.74	10	<5	<2	<2	24	.5	<2	<2	120	1.07	.041	13	81	1.21	22	.24	6	3.20	.03	.01	<1	2
MR 500E 975N	<1	73	3	50	.2	25	12	298	6.48	5	<5	<2	<2	17	<.2	2	<2	160	.56	.032	4	64	.46	18	.44	4	3.84	.02	<.01	1	2
MR 500E 950N	<1	83	3	40	.2	27	10	635	6.55	<2	<5	<2	<2	12	<.2	<2	4	160	.32	.031	3	96	.34	14	.45	3	3.49	.02	<.01	<1	2
MR 500E 925N	<1	209	2	49	.2	50	16	473	5.99	<2	5	<2	<2	18	.2	<2	<2	149	.76	.029	3	115	.95	14	.46	4	3.73	.02	.01	<1	4
MR 500E 900N	<1	106	2	53	.3	22	6	262	9.11	<2	<5	<2	<2	18	<.2	<2	<2	336	.58	.034	2	100	.30	15	.97	2	2.41	.02	<.01	<1	5
MR 500E 875N	<1	147	2	62	.2	25	6	332	11.80	<2	<5	<2	<2	19	.4	<2	<2	327	.91	.045	2	121	.56	12	.96	<2	3.98	.02	<.01	<1	3
MR 500E 850N	<1	85	2	45	.2	118	18	297	6.45	<2	<5	<2	<2	14	<.2	<2	<2	125	.67	.026	2	168	1.56	17	.37	4	5.32	.04	.01	1	3
MR 500E 800N	<1	275	<2	55	.3	37	16	357	6.59	2	<5	<2	<2	17	.2	2	<2	185	.87	.023	5	70	.79	18	.51	4	3.62	.02	<.01	<1	36
MR 500E 775N	<1	129	<2	48	.3	22	8	278	7.00	<2	5	<2	<2	13	<.2	<2	<2	159	.62	.038	2	68	.40	12	.52	3	4.03	.01	.01	1	3
MR 500E 750N	<1	151	2	50	.5	22	10	432	8.21	2	<5	<2	<2	19	.3	2	<2	258	1.11	.050	3	69	.57	15	.74	3	2.90	.02	.01	1	13
MR 500E 725N	<1	192	2	51	.4	24	7	333	7.31	2	<5	<2	<2	18	<.2	<2	<2	179	.52	.057	3	66	.49	17	.53	3	4.28	.02	.01	<1	3
MR 500E 700N	<1	52	<2	37	.2	13	1	196	12.33	2	<5	<2	<2	23	.4	<2	<2	374	.76	.035	2	91	.26	9	.98	<2	2.48	.02	<.01	1	15
MR 500E 675N	<1	50	<2	50	.1	22	8	332	10.49	<2	<5	<2	<2	19	.4	<2	<2	265	1.03	.046	2	90	.48	14	.79	<2	3.32	.02	<.01	1	74
MR 500E 650N	<1	35	<2	40	.1	12	7	464	8.09	2	<5	<2	<2	14	<.2	<2	<2	290	.70	.043	3	67	.20	14	.70	2	1.73	.02	.01	<1	5
MR 500E 625N	<1	96	<2	61	.1	38	20	649	7.42	2	<5	<2	<2	18	.2	<2	<2	204	1.26	.033	4	75	1.04	12	.62	3	3.61	.02	<.01	<1	3
STANDARD C/AU-S	17	61	37	128	6.9	70	30	1038	3.96	41	17	7	37	53	18.5	15	22	57	.51	.086	40	59	.91	185	.09	34	1.88	.10	.16	11	47

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.
AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

Kennecott Canada Inc. FILE # 93-2078

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
MR 500E 600N	<1	88	<2	63	.3	27	23	1589	7.27	3	<5	<2	<2	18	.3	2	<2	191	1.00	.047	16	83	.48	17	.62	2	3.61	.02	.01	1	3
MR 500E 575N	<1	33	<2	35	.2	14	5	219	6.59	<2	<5	<2	<2	16	<.2	<2	<2	189	.54	.026	3	63	.24	12	.59	2	2.18	.02	.01	1	1
MR 500E 550N	<1	28	<2	56	.1	38	16	402	7.03	2	<5	<2	<2	19	.4	<2	<2	199	1.62	.030	2	64	.76	17	.65	3	3.03	.02	.01	<1	5
RE MR 500E 550N	<1	28	<2	56	.2	38	17	401	6.94	2	<5	<2	<2	20	.2	2	<2	197	1.63	.030	2	65	.76	16	.65	3	3.00	.02	.01	<1	2
MR 500E 525N	<1	32	<2	49	.3	14	7	281	9.01	2	<5	<2	<2	26	<.2	2	<2	253	.76	.035	3	75	.23	14	.80	<2	2.18	.02	.01	1	2
MR 500E 500N	<1	33	<2	42	<.1	12	4	168	6.76	<2	<5	<2	<2	18	<.2	<2	<2	218	.67	.044	2	61	.24	19	.71	<2	2.10	.02	.01	<1	2
MR 600E 1050N	1	30	3	40	.1	11	3	137	8.35	7	<5	<2	<2	14	<.2	<2	3	180	.25	.033	3	47	.21	17	.43	<2	3.31	.02	<.01	<1	1
MR 600E 1025N	<1	23	4	27	.2	6	2	134	7.54	4	<5	<2	<2	12	<.2	2	3	176	.17	.030	3	36	.12	21	.46	<2	2.49	.02	.01	<1	<1
MR 600E 1000N	<1	55	<2	41	.2	19	6	217	9.10	<2	<5	<2	<2	24	<.2	<2	<2	208	.47	.032	2	68	.29	13	.60	<2	4.29	.02	<.01	1	1
MR 600E 975N	<1	65	<2	29	.1	19	6	146	6.29	<2	5	<2	<2	15	<.2	<2	<2	158	.34	.026	4	76	.29	9	.50	<2	3.88	.02	<.01	<1	1
MR 600E 950N	<1	92	<2	42	.2	24	10	363	5.66	<2	<5	<2	<2	29	<.2	<2	<2	169	.70	.041	9	98	.41	13	.52	3	4.33	.02	.01	1	28
MR 600E 925N	<1	44	<2	37	.2	27	7	288	6.73	2	<5	<2	<2	15	<.2	2	<2	146	.74	.031	3	67	.63	11	.52	2	2.85	.02	.01	1	15
MR 600E 900N	<1	65	<2	44	.2	19	7	316	9.35	<2	<5	<2	<2	16	<.2	<2	<2	237	.51	.043	3	99	.30	15	.72	<2	2.83	.02	.01	<1	2
MR 600E 875N	<1	86	<2	51	.3	45	16	587	7.67	<2	<5	<2	<2	16	.2	<2	2	181	.59	.070	4	133	.56	19	.56	2	5.02	.02	<.01	1	3
MR 600E 850N	<1	218	<2	68	.2	41	19	479	7.80	<2	6	<2	<2	15	.2	<2	<2	176	.72	.041	3	85	.79	13	.59	<2	5.26	.02	.01	<1	3
MR 600E 825N	<1	49	<2	45	.1	27	6	241	8.98	<2	<5	<2	<2	16	<.2	2	<2	293	.48	.043	2	100	.35	14	.80	<2	2.32	.02	<.01	1	2
MR 600E 800N	<1	61	2	49	.2	41	10	257	9.04	2	<5	<2	<2	19	<.2	2	<2	229	.44	.021	2	136	.81	19	.60	<2	2.36	.02	.01	1	4
MR 600E 775N	<1	86	<2	34	.1	35	15	294	5.46	3	<5	<2	<2	21	.2	<2	<2	141	.71	.025	7	82	.64	18	.48	4	3.58	.02	<.01	1	3
MR 600E 750N	<1	35	<2	31	.2	23	4	178	7.23	<2	<5	<2	<2	14	<.2	<2	<2	222	.58	.024	<2	94	.44	11	.65	<2	1.62	.02	.01	<1	3
MR 600E 725N	<1	34	2	31	.2	28	5	145	5.22	<2	<5	<2	<2	13	<.2	<2	2	96	.49	.059	<2	72	.37	12	.25	3	3.65	.02	<.01	1	3
MR 600E 700N	<1	253	<2	60	.3	51	12	317	9.19	<2	<5	<2	<2	16	.4	<2	<2	206	.62	.034	2	125	.94	13	.63	<2	4.27	.02	<.01	<1	6
MR 600E 675N	<1	59	<2	43	.2	24	6	182	6.09	<2	5	<2	<2	16	<.2	<2	<2	142	.35	.025	3	79	.35	13	.42	2	3.64	.02	.01	<1	2
MR 600E 650N	<1	47	2	34	.1	12	2	104	6.36	2	<5	<2	<2	15	<.2	2	<2	200	.36	.019	2	98	.20	9	.63	3	2.14	.02	.01	1	3
MR 600E 625N	<1	99	<2	47	.2	23	8	242	5.11	3	<5	<2	<2	17	<.2	2	<2	122	.38	.017	3	58	.50	16	.42	3	3.91	.02	.01	1	2
MR 600E 600N	<1	81	<2	44	.1	22	8	247	5.83	<2	<5	<2	<2	16	<.2	<2	<2	139	.34	.020	4	64	.55	16	.46	2	4.50	.02	.01	1	4
MR 600E 575N	<1	82	<2	38	.1	16	5	194	9.26	<2	<5	<2	<2	21	<.2	<2	<2	254	.55	.025	<2	85	.35	15	.72	<2	2.37	.02	.01	1	4
MR 600E 550N	<1	42	2	28	<.1	19	3	136	9.19	<2	<5	<2	<2	12	<.2	<2	<2	265	.32	.022	2	114	.29	16	.69	<2	2.68	.02	<.01	<1	10
MR 600E 500N	<1	106	3	56	<.1	28	16	1212	3.76	<2	<5	<2	<2	23	.2	<2	<2	122	.77	.042	9	69	.67	30	.37	3	3.06	.02	<.01	<1	3
STANDARD C/AU-S	17	58	38	126	6.9	70	30	1042	3.96	39	17	7	36	52	18.2	14	20	55	.51	.086	38	57	.91	183	.09	33	1.88	.09	.16	11	48

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.
AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Kennecott Canada Inc. File # 93-1484 Page 1

354 - 200 Granville St., Vancouver BC V6C 1S4

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
MR 10E 1025N	1	125	8	43	.3	12	<1	295	15.30	<2	<5	<2	<2	11	.7	<2	<2	413	.64	.032	2	66	.37	13	1.31	3	2.83	.02	.01	2	3
MR 10E 1000N	1	169	4	60	.4	14	3	291	13.75	<2	<5	<2	<2	10	.5	<2	<2	300	.54	.034	2	90	.25	13	1.03	3	3.74	.02	<.01	<1	3
MR 10E 975N	1	101	3	76	.4	43	25	3856	6.93	<2	<5	<2	<2	27	.3	<2	<2	159	.81	.054	11	117	.63	31	.48	4	5.77	.03	.01	<1	2
MR 10E 950N	<1	31	5	54	.3	27	4	342	8.86	4	<5	<2	<2	13	.2	<2	<2	348	.55	.030	2	195	.42	18	.89	4	1.92	.02	.02	1	2
MR 10E 925N	<1	51	3	62	.4	81	19	428	9.34	<2	<5	<2	<2	16	.5	<2	<2	229	.95	.037	3	292	1.37	21	.68	4	5.12	.03	.01	1	4
MR 10E 900N	<1	86	<2	68	.2	127	31	1110	7.19	<2	<5	<2	<2	13	.4	<2	<2	149	.87	.047	3	283	1.95	16	.48	6	7.46	.04	.01	2	3
MR 10E 875N	<1	18	6	42	.2	14	<1	189	9.51	3	<5	<2	<2	15	<.2	3	<2	411	.32	.031	2	131	.15	15	1.20	2	.89	.02	<.01	1	3
MR 10E 850N	1	63	4	62	.4	16	4	209	12.33	<2	<5	<2	<2	19	.5	<2	<2	334	.59	.045	3	102	.27	15	1.08	5	3.33	.02	.01	1	4
MR 10E 825N	<1	35	5	39	.1	11	<1	196	8.29	2	<5	<2	<2	17	<.2	2	2	480	.47	.022	<2	61	.17	8	1.51	3	1.13	.02	<.01	1	6
MR 10E 800N	<1	126	3	66	.4	19	10	422	9.26	2	<5	<2	<2	24	.4	<2	<2	265	.83	.056	2	65	.45	13	.94	3	3.17	.02	<.01	1	3
MR 10E 775N	<1	309	3	81	.3	34	19	405	7.31	<2	<5	<2	<2	24	.2	<2	<2	200	.91	.050	4	75	.84	13	.69	3	5.53	.02	<.01	<1	2
MR 10E 750N	2	131	3	63	.3	17	6	233	7.78	<2	<5	<2	<2	26	.4	<2	<2	238	.97	.040	4	74	.53	12	.87	4	3.90	.02	<.01	1	2
MR 10E 725N	<1	83	3	70	.5	28	9	214	10.07	<2	<5	<2	<2	23	<.2	<2	2	260	.66	.035	4	108	.37	17	.82	3	4.35	.02	<.01	1	2
MR 10E 700N	<1	34	4	52	.3	12	3	184	9.54	<2	<5	<2	<2	23	<.2	<2	<2	257	.52	.029	2	78	.20	16	.84	3	1.73	.02	<.01	<1	1
MR 10E 675N	<1	32	6	39	.4	9	2	139	7.76	4	<5	<2	<2	21	<.2	3	<2	311	.40	.024	3	67	.15	15	.92	4	1.19	.02	.01	1	2
MR 10E 650N	<1	60	5	57	.5	15	4	191	9.09	3	<5	<2	<2	17	<.2	2	<2	246	.31	.034	5	75	.19	18	.73	4	2.76	.02	.01	1	1
MR 10E 625N	1	77	3	59	<.1	19	12	355	7.01	<2	<5	<2	<2	15	.3	<2	<2	163	.41	.030	5	83	.37	15	.52	4	4.10	.02	<.01	<1	2
MR 10E 600N	1	41	6	57	.2	19	7	557	10.49	3	<5	<2	<2	20	.4	<2	<2	273	.51	.049	2	97	.33	18	.76	3	3.46	.02	<.01	1	1
MR 10E 575N	<1	61	4	44	.1	27	8	233	7.94	<2	<5	<2	<2	15	.3	<2	<2	194	.47	.030	3	126	.49	12	.55	3	3.15	.02	<.01	1	4
MR 10E 550N	<1	35	6	38	.1	11	2	203	10.39	2	<5	<2	<2	15	<.2	<2	<2	326	.33	.032	3	97	.15	11	.91	<2	1.65	.01	<.01	1	4
MR 10E 525N	<1	29	5	44	.1	14	3	204	9.34	<2	<5	<2	<2	15	<.2	<2	<2	263	.41	.037	2	94	.21	10	.77	3	2.86	.02	.01	1	3
MR 10E 500N	<1	87	4	71	.1	31	11	264	7.71	<2	<5	<2	<2	17	<.2	<2	<2	187	.48	.042	6	97	.42	19	.59	4	4.87	.02	<.01	<1	2
MR 1050E 1075N	1	76	4	58	.3	17	8	263	5.12	8	<5	<2	<2	16	<.2	<2	2	92	.24	.043	8	37	.52	32	.21	4	3.45	.03	.02	<1	<1
MR 1050E 1050N	<1	168	2	61	.3	29	23	933	7.65	3	<5	<2	<2	15	<.2	<2	<2	182	.58	.052	6	83	.51	19	.53	5	4.76	.02	.01	1	3
MR 1050E 1025N	<1	176	3	58	.3	46	20	387	9.37	<2	5	<2	<2	14	<.2	<2	<2	256	.54	.034	4	171	.55	23	.73	3	5.07	.02	<.01	<1	2
MR 11E 1050N	<1	60	4	37	.1	10	4	312	7.02	<2	<5	<2	<2	11	<.2	<2	<2	363	.61	.025	2	57	.20	9	1.14	4	1.11	.02	.01	1	17
RE MR 11E 1000N	1	252	3	63	.3	30	25	1283	10.67	<2	5	<2	<2	12	<.2	<2	<2	302	.78	.045	19	142	.52	18	.90	3	4.00	.02	<.01	<1	3
MR 11E 1025N	<1	138	2	44	.4	18	15	803	10.55	6	<5	<2	<2	14	<.2	5	<2	345	.72	.036	2	97	.33	12	1.06	5	2.13	.02	<.01	2	6
MR 11E 1000N	<1	235	2	60	.4	29	24	1206	10.02	2	6	<2	<2	11	<.2	<2	<2	284	.73	.041	17	138	.49	17	.83	2	3.83	.02	<.01	<1	3
MR 11E 975N	<1	122	2	68	.4	40	20	776	8.46	4	10	<2	<2	13	.2	<2	<2	211	.78	.042	6	138	.73	15	.62	4	3.53	.02	<.01	1	4
MR 11E 950N	<1	87	4	74	.3	42	27	1658	11.03	5	6	<2	<2	14	.2	3	<2	295	.72	.055	6	169	.37	18	.75	2	3.05	.02	.01	<1	5
MR 11E 925N	<1	70	2	75	.1	54	22	728	7.88	<2	<5	<2	<2	11	<.2	<2	<2	202	.83	.043	3	185	.70	13	.61	5	3.89	.02	.01	1	3
MR 11E 900N	<1	51	2	52	.2	33	13	356	7.00	4	<5	<2	<2	20	<.2	2	<2	188	.53	.029	5	95	.58	18	.58	4	3.32	.02	.01	1	3
MR 11E 875N	<1	30	3	53	.3	46	11	429	10.35	4	8	<2	<2	15	<.2	2	<2	262	.52	.051	2	314	.55	18	.65	<2	2.59	.02	<.01	1	1
MR 11E 850N	<1	33	3	59	.1	17	14	846	6.56	4	<5	<2	<2	18	<.2	3	<2	145	.38	.042	4	81	.25	16	.44	5	4.34	.02	<.01	2	<1
MR 11E 825N	<1	55	<2	61	<.1	44	17	867	7.98	<2	<5	<2	<2	16	.2	<2	<2	223	.63	.080	4	192	.60	17	.60	2	4.20	.03	<.01	1	1
MR 11E 800N	<1	170	3	85	<.1	83	27	1416	8.29	<2	<5	<2	<2	25	.3	<2	<2	193	1.04	.054	4	150	1.00	42	.45	4	3.90	.03	.01	<1	3
STANDARD C/AU-S	18	60	38	126	7.5	71	31	1034	3.96	38	15	6	35	53	18.5	13	19	57	.49	.086	40	58	.92	184	.09	33	1.88	.08	.16	12	48

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: P1 TO P3 SOIL P4 SEDIMENT P5 TO P6 ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.
Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: JUL 12 1993 **DATE REPORT MAILED:** July 16/93. **SIGNED BY**.......... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
MR 11E 750N	<1	47	7	58	<.1	10	1	252	8.92	<2	<5	<2	<2	22	.8	<2	5	264	.65	.060	2	62	.33	12	.95	2	2.22	.01	.01	<1	3
MR 11E 725N	<1	40	6	64	.1	10	3	395	9.09	<2	<5	<2	<2	17	<.2	<2	<2	209	.48	.058	3	68	.23	16	.64	5	3.40	.01	.01	1	2
MR 11E 700N	<1	95	3	80	.1	31	11	374	7.06	<2	<5	<2	2	16	<.2	<2	<2	144	.62	.033	4	79	.72	19	.50	4	5.23	.01	.01	3	3
MR 11E 675N	<1	59	5	62	.1	20	11	417	6.61	<2	<5	<2	<2	14	<.2	<2	<2	143	.53	.043	4	78	.44	11	.46	4	4.41	.01	.01	2	1
MR 11E 650N	<1	36	3	56	<.1	12	3	199	8.34	<2	<5	<2	<2	16	<.2	<2	<2	196	.60	.027	2	75	.28	13	.65	7	3.59	.01	.01	1	10
MR 11E 625N	<1	20	9	35	.1	<1	<1	157	8.75	2	<5	<2	<2	14	<.2	<2	<2	249	.33	.016	2	56	.12	13	.79	6	1.46	.01	.01	1	9
MR 11E 600N	<1	72	6	78	.1	19	10	289	5.92	<2	<5	<2	<2	19	<.2	<2	<2	196	.61	.030	4	72	.46	13	.69	3	3.61	.01	.01	1	3
MR 11E 575N	<1	36	7	44	<.1	2	2	153	6.19	2	<5	<2	<2	15	<.2	<2	<2	152	.38	.038	2	53	.21	11	.50	<2	2.28	.01	.01	1	1
MR 11E 550N	<1	51	6	56	.1	9	5	220	6.32	<2	<5	<2	<2	13	<.2	<2	<2	141	.29	.042	4	58	.28	10	.41	<2	4.14	.01	.01	3	3
MR 11E 525N	<1	39	6	37	<.1	12	3	171	6.33	2	<5	<2	<2	16	<.2	<2	<2	148	.44	.024	2	50	.29	16	.47	2	2.27	.01	.01	1	2
MR 11E 500N	1	45	<2	46	.1	6	4	485	7.98	<2	<5	<2	<2	13	.2	<2	<2	184	.27	.038	4	62	.27	20	.49	<2	3.11	.01	.01	1	2
MR 1150E 1025N	1	26	7	52	.2	8	8	486	7.82	3	<5	<2	<2	27	<.2	<2	<2	181	.88	.033	3	54	.37	23	.36	2	2.24	.01	.01	1	1
MR 12E 1025N	<1	25	5	32	<.1	3	<1	192	10.51	<2	<5	<2	<2	6	1.0	<2	15	454	.72	.033	<2	36	.16	6	1.45	2	1.14	.01	.01	<1	1
MR 12E 1000N	1	176	8	58	.1	15	7	381	12.58	21	<5	<2	2	5	.2	<2	7	327	.55	.034	4	117	.20	7	.86	<2	4.11	.01	.01	<1	10
MR 12E 975N	<1	68	3	66	<.1	53	11	402	9.18	<2	<5	<2	2	10	<.2	<2	<2	192	.55	.044	3	240	.56	15	.52	2	5.52	.01	.02	<1	2
MR 12E 950N	<1	79	8	55	.1	11	5	475	11.34	3	<5	<2	<2	16	1.6	<2	5	348	.92	.087	2	110	.25	18	.95	2	2.41	.01	.01	1	2
MR 12E 925N	1	73	6	54	<.1	101	19	455	7.14	9	<5	<2	<2	10	1.1	<2	<2	146	.63	.031	3	272	1.05	16	.34	5	5.80	.01	.01	2	3
MR 12E 900N	<1	107	<2	54	<.1	162	31	921	6.14	<2	<5	<2	<2	10	.8	<2	<2	122	.66	.028	3	261	3.05	14	.30	<2	5.88	.02	.01	1	4
MR 12E 875N	<1	124	<2	61	.1	120	20	1625	8.05	20	<5	<2	<2	12	.3	9	6	169	.50	.035	3	216	.73	31	.16	3	2.17	.01	.02	1	2
MR 12E 850N	<1	64	4	70	.2	41	19	6085	6.70	3	<5	<2	<2	21	.9	<2	<2	172	.94	.040	9	153	.53	39	.40	<2	3.61	.01	.01	2	2
RE MR 12E 625N	<1	42	9	35	.1	8	2	290	10.31	<2	<5	<2	<2	15	.9	<2	<2	279	.36	.063	2	68	.20	17	.73	<2	1.84	.01	.01	1	3
MR 12E 825N	<1	42	4	62	.1	59	25	735	8.19	<2	<5	<2	<2	19	.5	<2	<2	213	.77	.042	3	249	.81	28	.50	<2	2.79	.01	.01	<1	4
MR 12E 800N	<1	32	2	39	<.1	49	13	445	8.08	<2	<5	<2	<2	9	<.2	<2	<2	198	.47	.035	3	254	.52	12	.47	2	4.18	.01	.01	1	2
MR 12E 775N	<1	77	<2	56	<.1	89	21	1193	6.15	<2	<5	<2	<2	9	.2	<2	<2	124	.68	.054	3	239	.97	17	.30	5	5.96	.01	.01	2	3
MR 12E 750N	<1	76	<2	54	<.1	64	19	800	6.86	<2	<5	<2	<2	12	.3	<2	<2	153	.68	.052	3	231	.72	18	.36	3	5.28	.01	.01	2	2
MR 12E 725N	<1	95	10	52	<.1	82	22	993	6.30	3	<5	<2	<2	12	<.2	<2	<2	136	.63	.054	4	202	1.09	21	.35	<2	5.39	.02	.01	1	3
MR 12E 700N	<1	158	<2	79	.2	76	22	5247	6.40	<2	<5	<2	<2	16	<.2	<2	<2	144	.79	.051	8	157	.97	27	.34	<2	4.69	.01	.01	1	16
MR 12E 675N	1	161	<2	87	.1	23	24	4698	6.73	<2	<5	<2	<2	16	.4	<2	<2	152	.45	.064	7	87	.21	22	.40	<2	4.19	.01	.02	1	3
MR 12E 650N	<1	82	8	56	<.1	17	11	448	6.43	3	<5	<2	<2	14	.6	<2	<2	149	.40	.059	3	69	.35	13	.40	3	4.09	.01	.01	3	4
MR 12E 625N	<1	41	7	34	<.1	9	2	270	10.44	<2	<5	<2	<2	15	1.2	<2	<2	285	.37	.064	2	68	.20	14	.71	<2	1.86	.01	.01	1	2
MR 12E 600N	<1	34	6	35	.1	9	3	191	6.41	<2	<5	<2	<2	16	<.2	<2	<2	159	.38	.027	3	60	.20	11	.43	2	2.66	.01	.01	2	1
MR 12E 575N	<1	99	4	78	<.1	23	12	343	7.80	<2	<5	<2	<2	12	.5	<2	<2	171	.41	.054	3	61	.35	12	.44	<2	4.69	.01	.01	1	14
MR 12E 550N	<1	23	14	33	<.1	4	<1	153	9.03	<2	<5	<2	<2	11	1.1	<2	<2	213	.19	.032	2	62	.10	10	.57	<2	2.21	.01	.01	<1	2
MR 12E 525N	<1	30	7	43	.1	7	14	665	8.49	<2	<5	<2	<2	17	.3	<2	<2	205	.55	.039	6	56	.27	21	.58	<2	1.98	.01	.01	1	3
MR 12E 500N	<1	63	7	48	<.1	20	10	648	6.63	<2	<5	<2	<2	12	.6	<2	<2	153	.59	.038	2	56	.47	10	.44	<2	3.84	.01	.01	2	2
MR 13E 975N	<1	52	9	74	.1	13	11	430	11.68	<2	<5	<2	<2	5	.2	<2	2	292	.72	.041	3	74	.29	10	.84	<2	3.13	.01	.01	1	2
MR 13E 950N	<1	67	6	35	<.1	5	<1	179	7.62	15	<5	<2	<2	10	<.2	<2	3	366	.32	.019	<2	54	.11	9	.86	4	1.00	.01	.01	2	3
STANDARD C/AU-S	18	56	41	128	6.8	67	29	1079	3.96	37	21	6	36	52	17.3	13	19	54	.50	.086	35	55	.88	185	.09	34	1.88	.05	.14	12	50

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
MR 13E 925N	<1	36	<2	52	<.1	14	7	347	8.34	<2	<5	<2	<2	19	<.2	<2	2	147	.47	.021	5	91	.35	13	.52	<2	3.02	.01	.01	<1	2
MR 13E 900N	2	82	2	40	<.1	14	6	223	10.40	<2	<5	<2	<2	10	<.2	<2	<2	203	.32	.028	<2	114	.22	10	.58	2	2.58	.01	.01	1	3
MR 13E 875N	<1	233	4	58	<.1	61	28	916	7.11	8	<5	<2	<2	18	<.2	9	3	145	.63	.019	3	101	.98	38	.36	4	2.96	.01	.02	1	5
MR 13E 850N	<1	109	2	53	<.1	33	16	621	7.00	3	<5	<2	<2	13	<.2	<2	2	126	.61	.028	3	86	.66	9	.42	3	3.29	.01	.01	<1	3
MR 13E 825N	<1	93	7	60	<.1	31	20	627	11.56	<2	<5	<2	<2	13	<.2	<2	<2	288	.74	.040	2	119	.59	17	.83	2	2.69	.01	.01	<1	5
MR 13E 800N	<1	49	6	58	<.1	14	20	854	11.63	<2	<5	<2	<2	11	<.2	<2	<2	237	.47	.038	9	110	.18	12	.69	<2	3.02	.01	.01	1	3
MR 13E 775N	<1	62	9	65	<.1	22	18	474	11.20	<2	<5	<2	<2	14	<.2	<2	<2	245	.73	.058	3	107	.31	15	.78	2	3.21	.01	.02	<1	2
MR 13E 750N	1	82	7	66	<.1	31	18	432	8.80	<2	5	<2	<2	17	<.2	<2	<2	190	.62	.045	3	106	.52	11	.60	<2	4.49	.01	.01	1	18
MR 13E 725N	1	78	8	56	<.1	33	17	437	8.84	<2	<5	<2	<2	17	<.2	<2	<2	217	.71	.035	2	103	.47	14	.67	2	4.38	.01	.01	<1	7
MR 13E 700N	<1	40	5	45	<.1	15	8	268	8.93	<2	<5	<2	<2	13	<.2	<2	<2	217	.48	.026	2	99	.25	13	.65	<2	3.04	.01	.01	1	4
MR 13E 675N	<1	79	10	57	<.1	47	27	1662	6.87	<2	<5	<2	<2	18	<.2	<2	<2	156	1.17	.037	6	102	.97	16	.49	2	3.60	.01	.01	<1	5
MR 13E 650N	1	53	8	55	<.1	26	16	485	8.83	<2	<5	<2	<2	22	<.2	<2	<2	229	.99	.034	4	108	.46	19	.67	<2	2.92	.01	.01	1	3
MR 13E 625N	1	45	3	44	<.1	17	8	323	11.90	<2	<5	<2	<2	18	<.2	<2	<2	285	.85	.042	<2	124	.27	12	.90	3	2.69	.01	.01	<1	3
MR 13E 600N	<1	33	6	32	.1	12	4	279	11.45	<2	<5	<2	<2	19	<.2	<2	<2	385	.61	.038	<2	101	.14	8	1.09	<2	1.26	.01	.01	<1	4
MR 13E 575N	<1	76	4	57	<.1	33	14	399	8.57	<2	<5	<2	<2	20	<.2	<2	2	191	.65	.043	2	109	.54	11	.59	<2	2.87	.01	.01	1	3
MR 13E 550N	<1	119	8	68	<.1	37	15	320	11.02	<2	<5	<2	<2	22	<.2	<2	<2	210	.42	.045	2	124	.58	12	.49	<2	4.53	.01	.02	<1	4
MR 13E 525N	<1	47	6	55	<.1	25	14	363	10.64	<2	<5	<2	<2	18	<.2	<2	<2	284	.74	.032	3	100	.56	20	.82	3	2.00	.01	.02	<1	2
MR 13E 500N	<1	30	6	53	.1	18	7	233	10.58	<2	<5	<2	<2	14	<.2	<2	2	287	.58	.022	<2	104	.33	14	.85	<2	1.63	.01	.01	<1	8
RE MR 13E 500N	<1	29	7	50	<.1	18	6	223	10.57	2	<5	<2	<2	14	<.2	<2	<2	285	.59	.021	<2	100	.33	12	.85	3	1.63	.01	.01	<1	6
MR 14E 975N	2	64	3	53	<.1	18	10	261	7.62	<2	<5	<2	<2	11	<.2	<2	<2	163	.30	.025	8	73	.32	19	.43	<2	4.19	.01	.01	<1	4
MR 14E 950N	<1	39	5	53	<.1	15	10	321	5.79	<2	<5	<2	<2	14	<.2	<2	<2	100	.30	.028	5	48	.49	21	.30	<2	3.83	.01	.01	2	3
MR 14E 925N	1	59	5	56	<.1	20	15	470	4.18	10	<5	<2	<2	11	<.2	<2	2	86	.33	.048	7	54	.45	12	.26	2	4.92	.01	.01	1	3
MR 14E 900N	<1	134	3	67	<.1	29	18	507	6.02	<2	<5	<2	<2	13	<.2	<2	<2	131	.45	.044	5	88	.43	15	.42	<2	4.37	.01	.01	<1	40
MR 14E 875N	<1	27	8	38	<.1	8	8	532	6.56	<2	<5	<2	<2	15	<.2	<2	<2	270	.74	.032	2	95	.26	8	.88	<2	1.61	.01	.01	1	5
MR 14E 850N	<1	92	<2	44	<.1	20	23	4578	5.51	<2	<5	<2	<2	16	<.2	<2	<2	134	.51	.042	10	71	.28	32	.35	<2	2.68	.01	.01	1	4
MR 14E 825N	<1	59	<2	49	<.1	25	16	411	7.43	<2	<5	<2	<2	15	<.2	<2	<2	179	.47	.028	5	88	.37	16	.50	2	4.02	.01	.01	1	11
MR 14E 800N	1	80	2	46	<.1	32	17	393	5.82	<2	6	<2	<2	12	<.2	<2	<2	130	.52	.025	5	90	.57	12	.44	<2	4.68	.01	.01	1	5
MR 14E 775N	<1	62	6	50	<.1	21	17	1095	6.85	2	<5	<2	<2	14	<.2	<2	<2	170	.43	.039	6	77	.35	19	.46	2	3.37	.01	.01	<1	7
MR 14E 750N	1	37	4	34	<.1	12	6	272	7.71	3	<5	<2	<2	15	<.2	<2	<2	201	.43	.025	3	75	.25	14	.56	<2	2.24	.01	.01	1	3
MR 14E 725N	<1	35	7	35	<.1	13	19	546	6.26	<2	<5	<2	<2	16	<.2	<2	<2	158	.33	.048	3	63	.18	19	.46	<2	1.77	.01	.01	1	10
MR 14E 700N	1	55	5	44	<.1	20	15	406	7.88	<2	6	<2	<2	9	<.2	<2	<2	157	.35	.039	4	104	.30	11	.46	<2	5.70	.01	.01	2	4
MR 14E 675N	2	35	6	60	<.1	16	14	414	8.82	<2	<5	<2	<2	17	<.2	<2	<2	216	.48	.047	3	93	.18	18	.59	2	2.81	.01	.01	<1	11
MR 14E 650N	<1	57	6	34	<.1	22	9	280	7.02	10	6	<2	<2	12	<.2	<2	<2	145	.51	.022	3	95	.38	13	.47	<2	4.22	.01	.01	1	12
MR 14E 625N	1	63	3	43	<.1	20	13	625	8.27	4	<5	<2	<2	17	<.2	<2	<2	197	.56	.042	6	98	.29	18	.57	2	2.92	.01	.01	1	4
MR 14E 600N	<1	49	3	40	.1	18	53	1314	7.12	<2	<5	<2	<2	25	<.2	<2	<2	206	.74	.028	6	82	.36	45	.64	<2	1.69	.01	.01	1	4
MR 14E 575N	1	55	2	39	<.1	19	8	278	5.88	<2	<5	<2	<2	18	<.2	<2	<2	158	.70	.031	2	67	.35	15	.49	<2	2.67	.01	.02	1	3
MR 14E 500N	<1	82	8	68	<.1	26	52	1286	9.81	<2	<5	<2	<2	33	<.2	<2	<2	189	1.53	.038	3	67	.42	13	.46	2	2.82	.01	.02	<1	4
STANDARD C/AU-S	18	59	38	132	6.7	65	31	1032	3.96	41	17	7	37	52	18.3	14	19	56	.52	.086	38	60	.91	183	.09	35	1.88	.06	.15	12	47

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

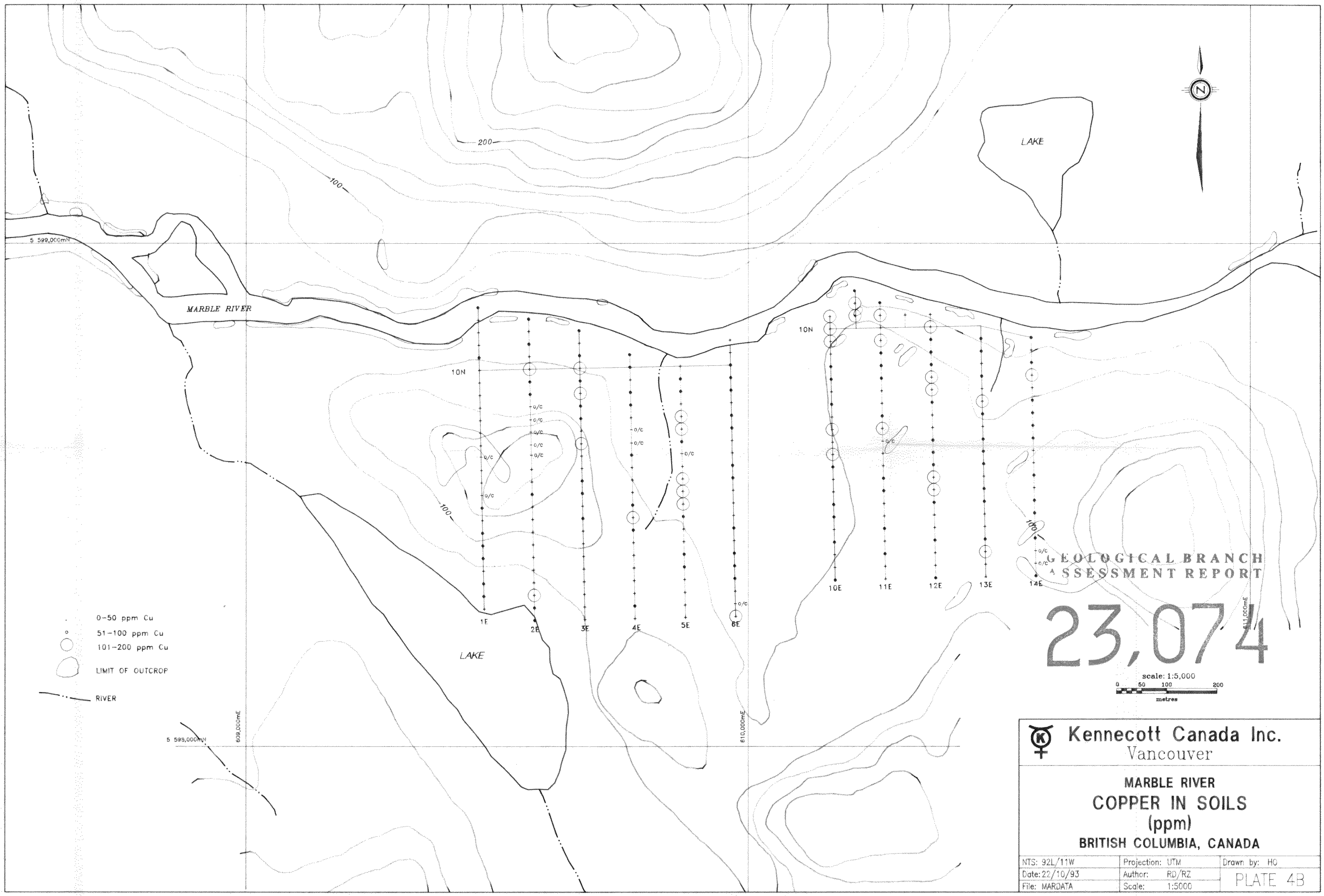
APPENDIX 4 - Stream sediment ICP results

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
SSMR93Z01	<1	61	<2	74	<.1	55	22	1770	5.61	8	<5	<2	<2	25	<.2	<2	<2	106	1.36	.042	4	37	1.60	30	.31	7	2.89	.05	.04	3	3
SSMR93Z02	<1	71	<2	64	<.1	36	17	2093	4.70	13	<5	<2	<2	29	.2	<2	<2	100	1.26	.043	4	35	1.07	35	.31	3	2.86	.03	.03	2	1
SSMR93Z03	1	88	2	71	<.1	43	15	1024	4.19	<2	<5	<2	<2	25	.5	<2	<2	100	.99	.056	6	61	.75	24	.25	3	3.70	.01	.01	3	1
SSMR93Z04	<1	83	<2	55	<.1	44	13	554	2.26	3	<5	<2	<2	24	<.2	<2	<2	79	1.16	.044	8	59	.95	31	.25	3	2.78	.01	.01	1	16
SSMR93Z05	<1	83	<2	58	.1	47	18	1175	4.13	7	<5	<2	<2	23	<.2	<2	<2	121	1.29	.058	10	110	1.06	16	.27	5	3.18	.01	.01	1	<1

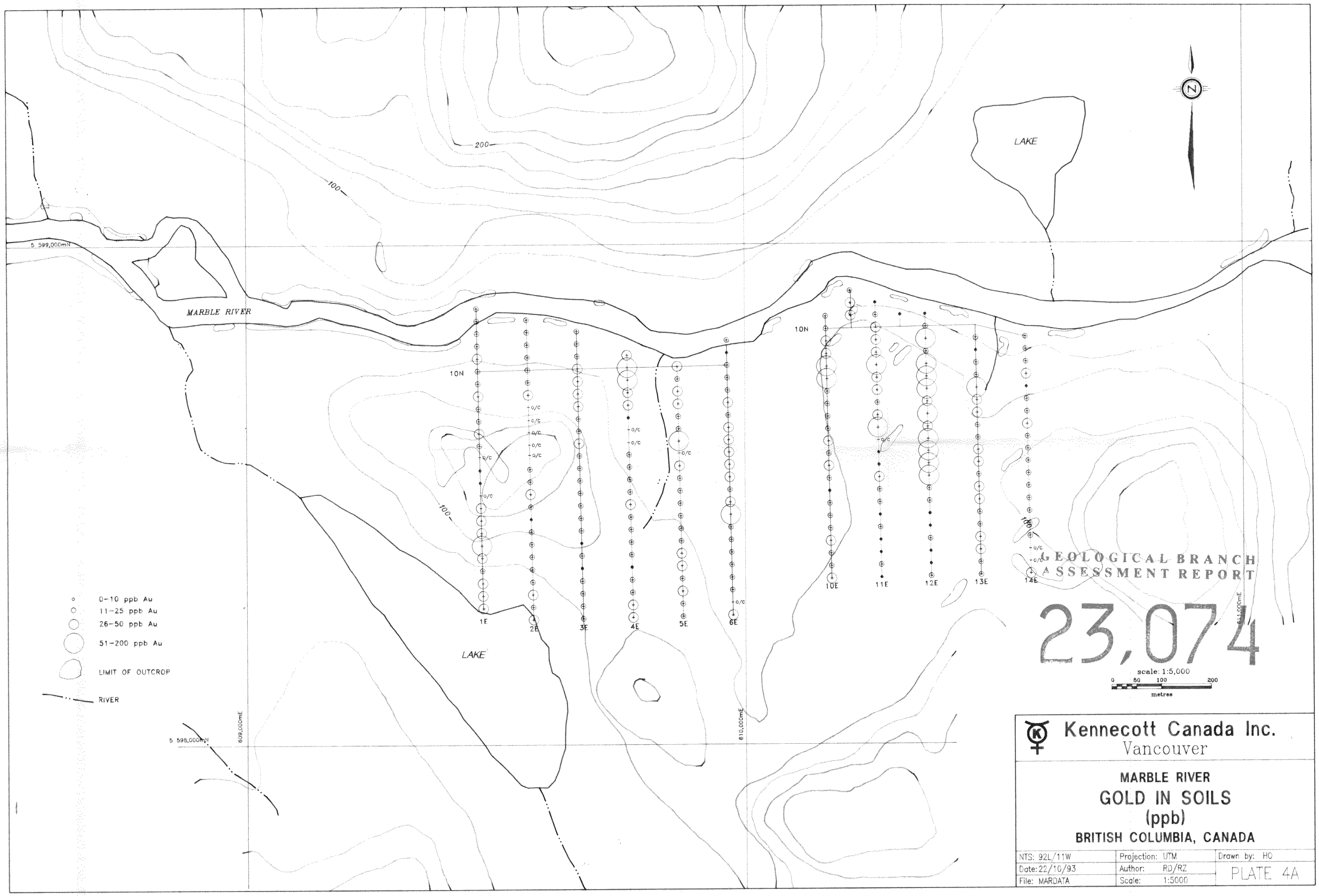
Sample type: SEDIMENT.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
SSMR93Z07	<1	101	<2	68	<.1	72	27	933	5.07	11	<5	<2	<2	35	.3	<2	<2	116	2.07	.033	4	52	1.91	30	.40	4	3.14	.06	.03	1	3
SSMR93Z08	<1	59	<2	72	<.1	41	22	1457	5.11	10	<5	<2	<2	35	<.2	<2	<2	115	1.45	.039	4	46	1.55	35	.31	3	2.78	.04	.03	<1	2
RE SSMR93Z08	1	61	<2	71	<.1	42	21	1494	5.18	7	<5	<2	<2	35	<.2	<2	<2	116	1.50	.040	4	47	1.57	30	.32	3	2.82	.04	.03	<1	1

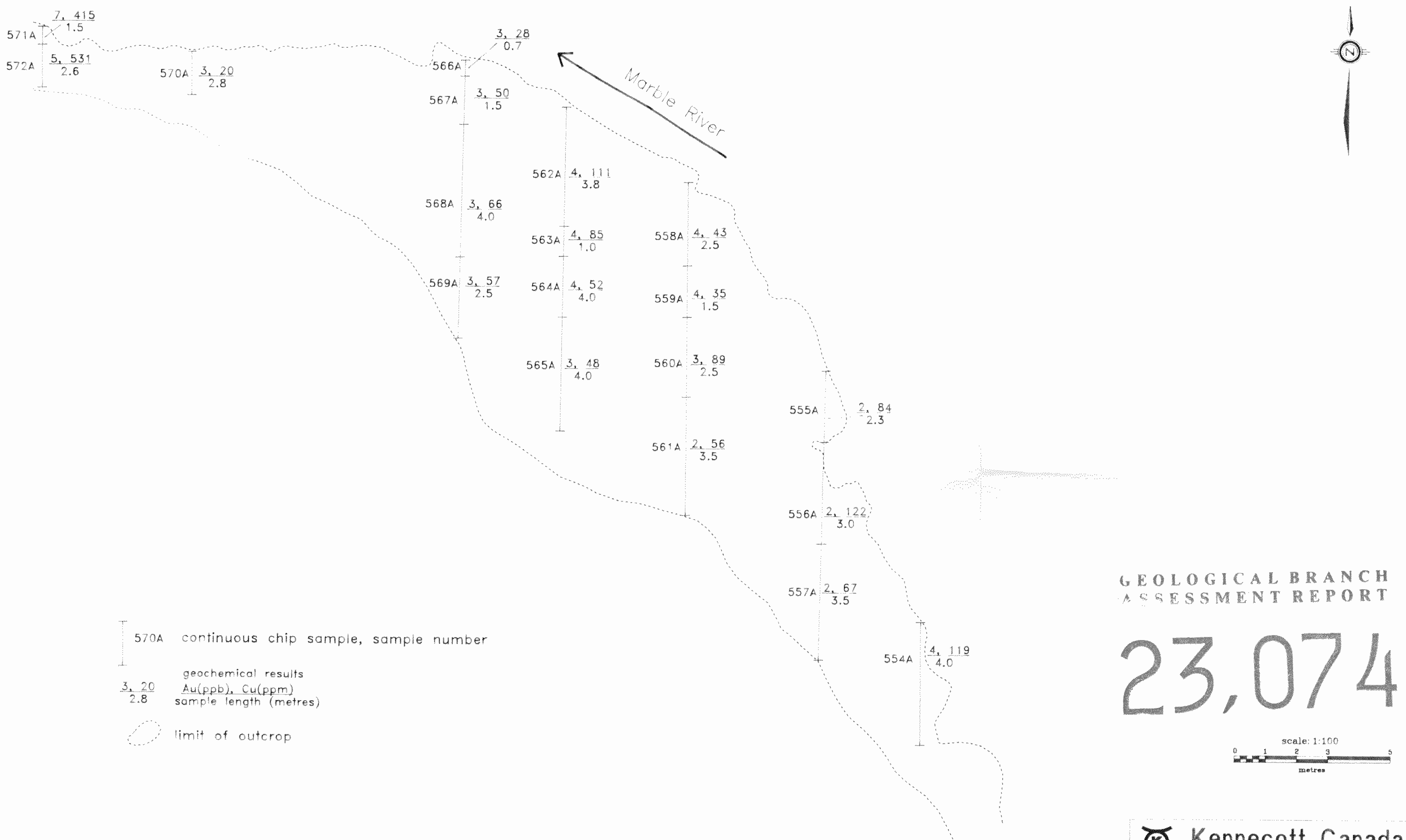
Sample type: SEDIMENT. Samples beginning 'RE' are duplicate samples.
AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.



MARBLE RIVER
LAKE
LAKE
200
100
100
100
10N
10N
o/c
1E
2E
3E
4E
5E
6E
10E
11E
12E
13E
14E
5 599,000mN
5 598,000mN
609,000mE
610,000mE
611,000mE
0-50 ppm Cu
51-100 ppm Cu
101-200 ppm Cu
LIMIT OF OUTCROP
RIVER
GEOLOGICAL BRANCH
ASSESSMENT REPORT
23,074
scale: 1:5,000
0 50 100 200
metres
Kennecott Canada Inc.
Vancouver
MARBLE RIVER
COPPER IN SOILS
(ppm)
BRITISH COLUMBIA, CANADA
NTS: 92L/11W
Date: 22/10/93
File: MARDATA
Projection: UTM
Author: RD/RZ
Scale: 1:5000
Drawn by: HO
PLATE 4B



LAKE
200
100
5 599,000mN
MARBLE RIVER
10N
1E
2E
3E
4E
5E
6E
10E
11E
12E
13E
14E
o/c
100
0-10 ppb Au
11-25 ppb Au
26-50 ppb Au
51-200 ppb Au
LIMIT OF OUTCROP
RIVER
LAKE
5 598,000mN
609,000mE
610,000mE
611,000mE
GEOLOGICAL BRANCH
ASSESSMENT REPORT
23,074
scale: 1:5,000
0 50 100 200
metres
Kennecott Canada Inc.
Vancouver
MARBLE RIVER
GOLD IN SOILS
(ppb)
BRITISH COLUMBIA, CANADA
NTS: 92L/11W
Date: 22/10/93
File: MARDATA
Projection: UTM
Author: RD/RZ
Scale: 1:5000
Drawn by: HQ
PLATE 4A



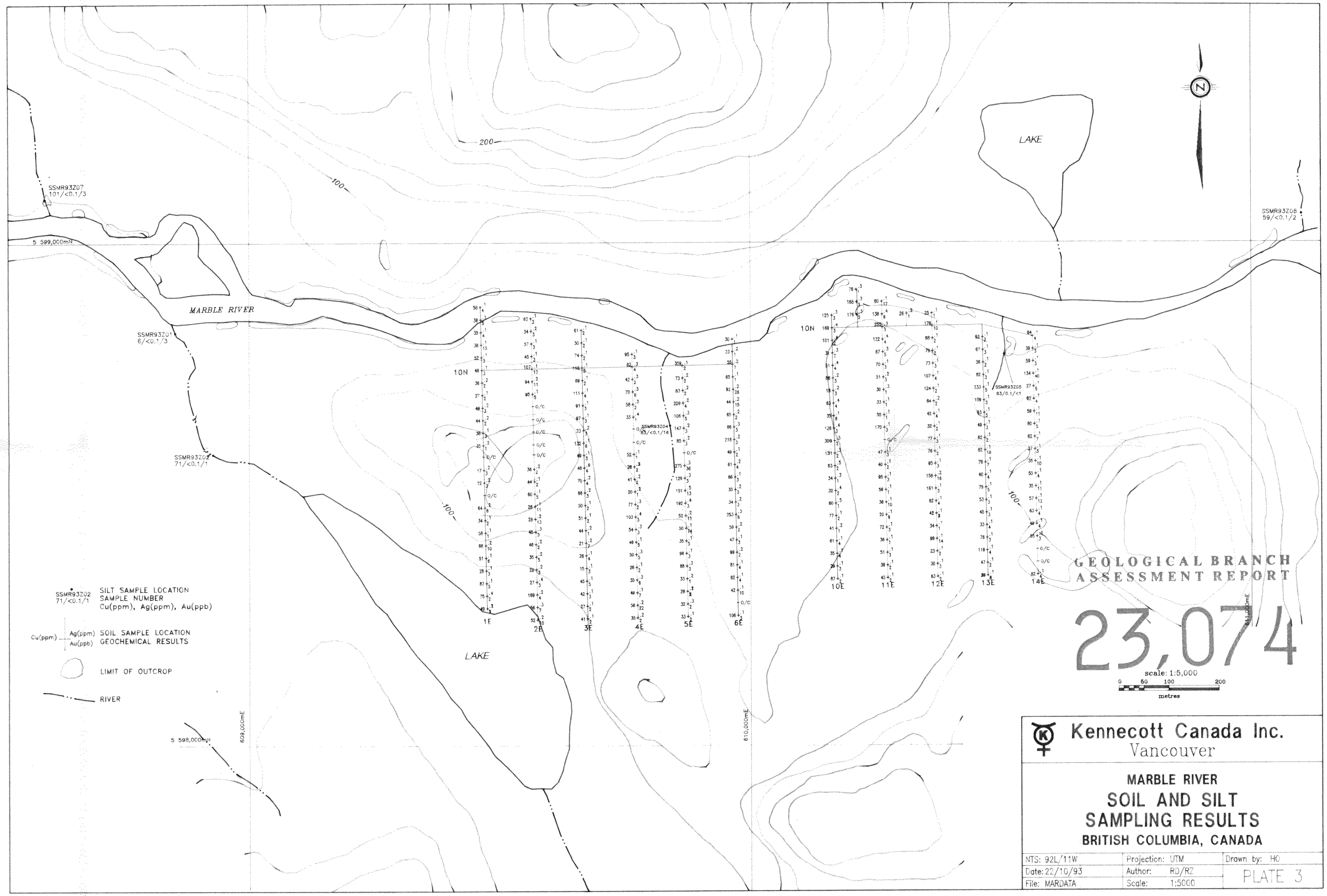
GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,074

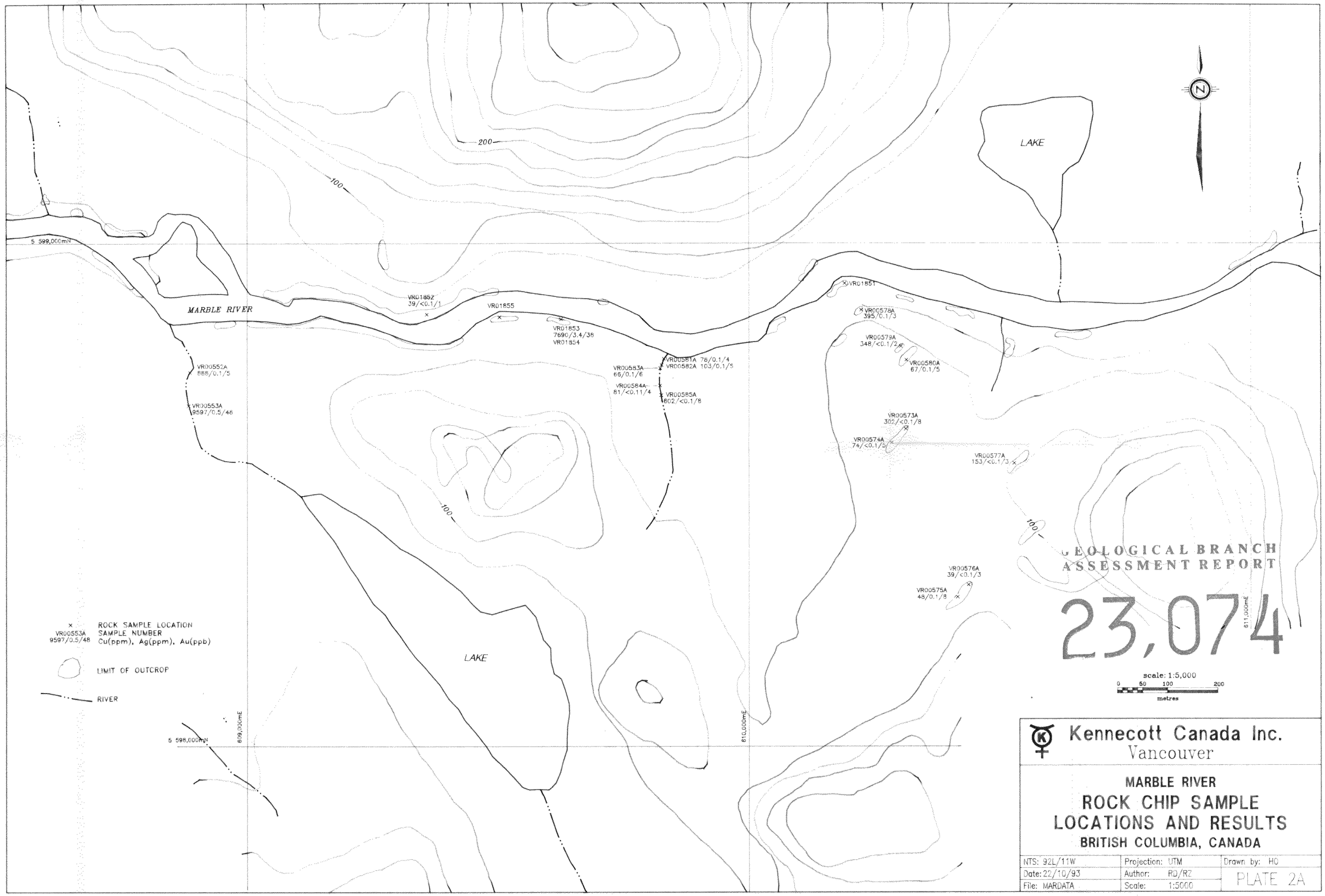
Kennecott Canada Inc.
Vancouver

MARBLE RIVER
ROCK CHIP SAMPLING
RODRIGO SHOWING
BRITISH COLUMBIA, CANADA

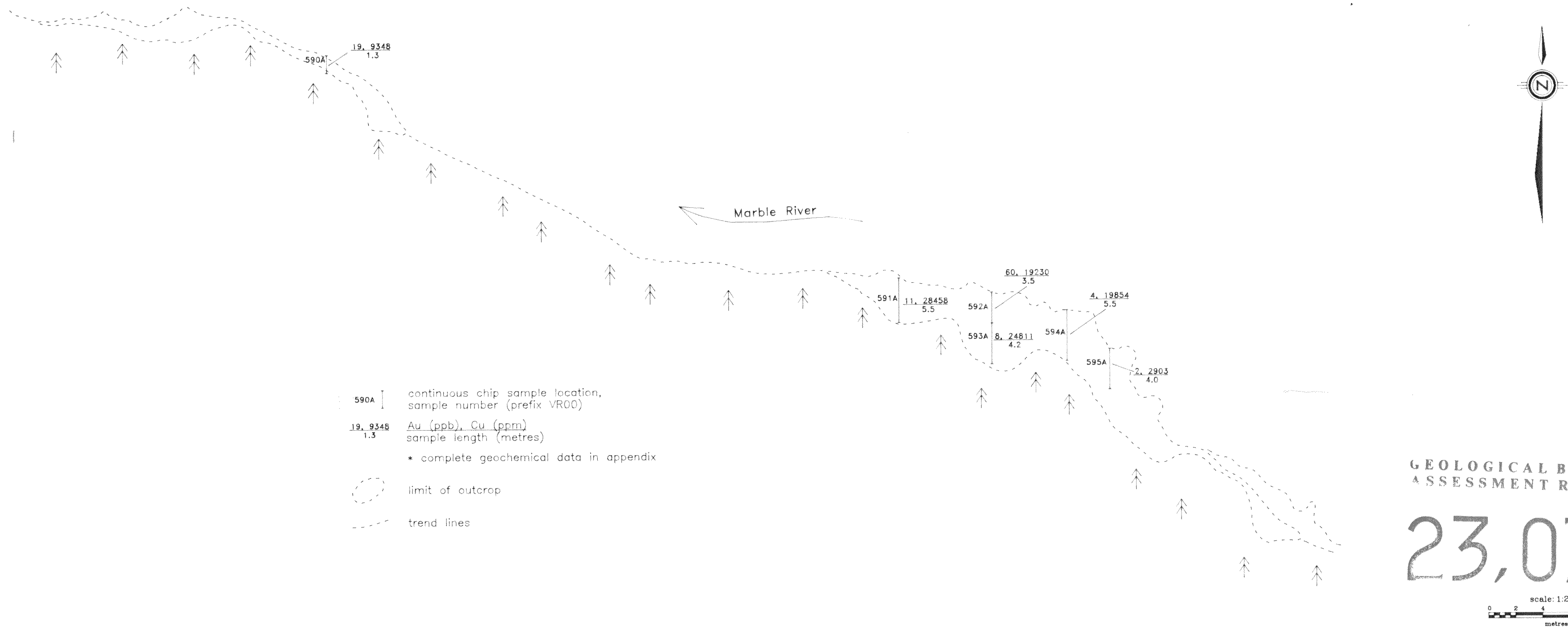
NTS: 92L/11W	Projection: UTM	Drawn by: HO
Date: 22/10/93	Author: RD/RZ	PLATE 2C
File: MARBROD	Scale: 1:100	



LAKE
MARBLE RIVER
LAKE
200
100
100
100
5 599,000mN
5 598,000mN
609,000mE
610,000mE
611,000mE
10N
10N
1E
2E
3E
4E
5E
6E
10E
11E
12E
13E
14E
SSMR93Z07
101/<0.1/3
SSMR93Z08
59/<0.1/2
SSMR93Z01
6/<0.1/3
SSMR93Z02
71/<0.1/1
SSMR93Z04
83/<0.1/16
SSMR93Z05
83/0.1/<1
SSMR93Z02 SILT SAMPLE LOCATION
71/<0.1/1 SAMPLE NUMBER
Cu(ppm), Ag(ppm), Au(ppb)
Cu(ppm) Ag(ppm) Au(ppb) SOIL SAMPLE LOCATION
GEOCHEMICAL RESULTS
LIMIT OF OUTCROP
RIVER
GEOLOGICAL BRANCH
ASSESSMENT REPORT
23,074
scale: 1:5,000
0 50 100 200
metres
Kennecott Canada Inc.
Vancouver
MARBLE RIVER
SOIL AND SILT
SAMPLING RESULTS
BRITISH COLUMBIA, CANADA
NTS: 92L/11W
Date: 22/10/93
File: MARDATA
Projection: UTM
Author: RD/RZ
Scale: 1:5000
Drawn by: HO
PLATE 3



LAKE
200
100
5 599,000mN
MARBLE RIVER
VR01852
39/<0.1/1
VR01855
VR01853
7690/3.4/36
VR01854
VR01851
VR00578A
395/0.1/3
VR00579A
348/<0.1/2
VR00580A
67/0.1/5
VR00581A 78/0.1/4
VR00582A 103/0.1/5
VR00583A
66/0.1/6
VR00584A
81/<0.11/4
VR00585A
602/<0.1/8
VR00552A
888/0.1/5
VR00553A
9597/0.5/48
VR00573A
302/<0.1/8
VR00574A
74/<0.1/5
VR00577A
153/<0.1/3
VR00576A
39/<0.1/3
VR00575A
48/0.1/8
100
LAKE
ROCK SAMPLE LOCATION
VR00553A
9597/0.5/48
SAMPLE NUMBER
Cu(ppm), Ag(ppm), Au(ppb)
LIMIT OF OUTCROP
RIVER
5 598,000mN
609,000mE
610,000mE
611,000mE
GEOLOGICAL BRANCH
ASSESSMENT REPORT
23,074
scale: 1:5,000
0 50 100 200
metres
Kennecott Canada Inc.
Vancouver
MARBLE RIVER
ROCK CHIP SAMPLE
LOCATIONS AND RESULTS
BRITISH COLUMBIA, CANADA
NTS: 92L/11W
Date: 22/10/93
File: MARDATA
Projection: UTM
Author: RD/RZ
Scale: 1:5000
Drawn by: HO
PLATE 2A



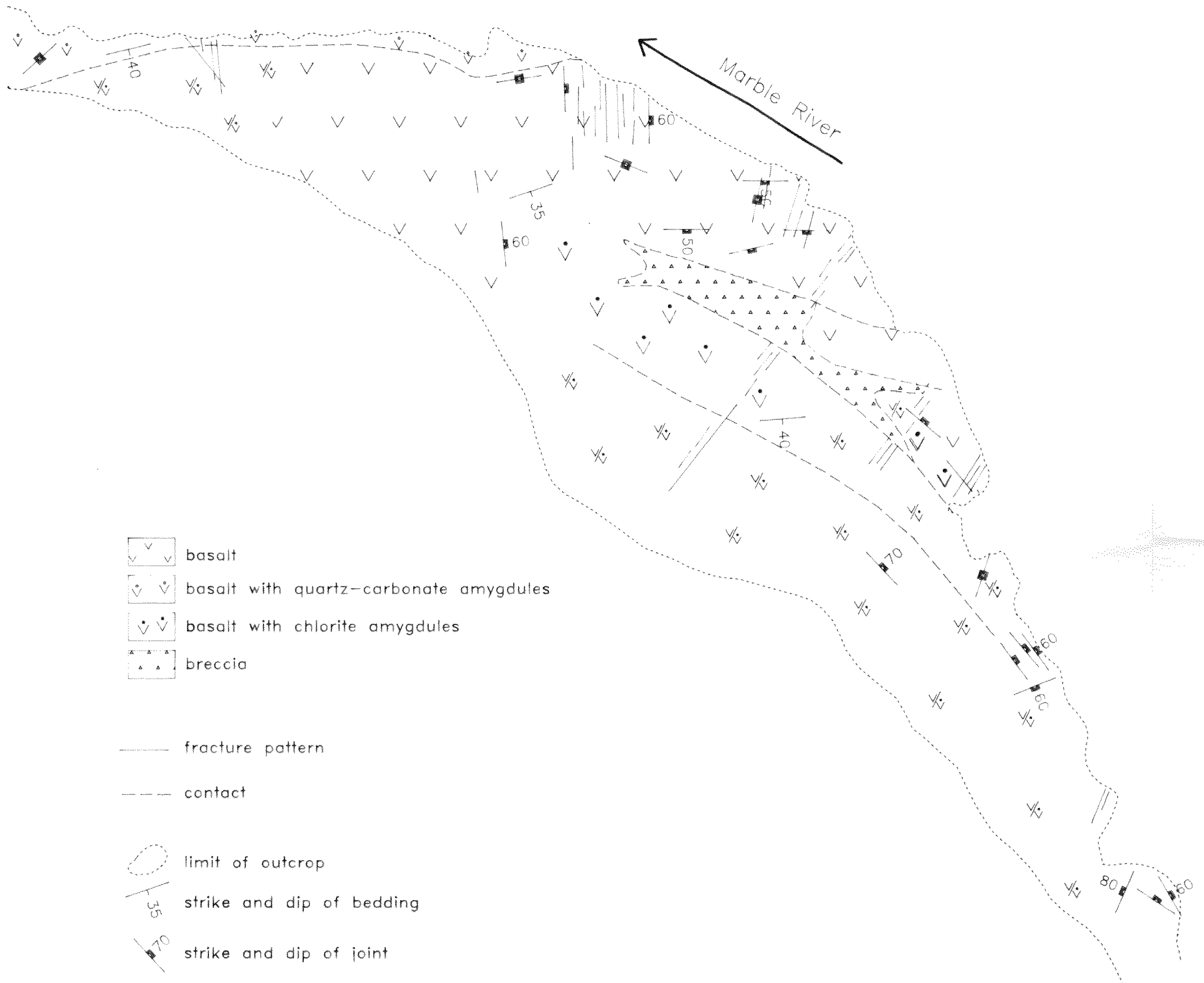
GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,074

Kennecott Canada Inc.
Vancouver

MARBLE RIVER
ROCK CHIP SAMPLING
BOTHWELL SHOWING
BRITISH COLUMBIA, CANADA

NTS: 92L/11W	Projection: UTM	Drawn by: HO
Date: 22/10/93	Author: RD, RZ	PLATE 2B
File: MARBWELL	Scale: 1:250	



basalt

basalt with quartz–carbonate amygdules

basalt with chlorite amygdules

breccia

fracture pattern

contact

limit of outcrop

strike and dip of bedding

strike and dip of joint

scale: 1:100

0 1 2 3 5

metres

Kennecott Canada Inc.
Vancouver

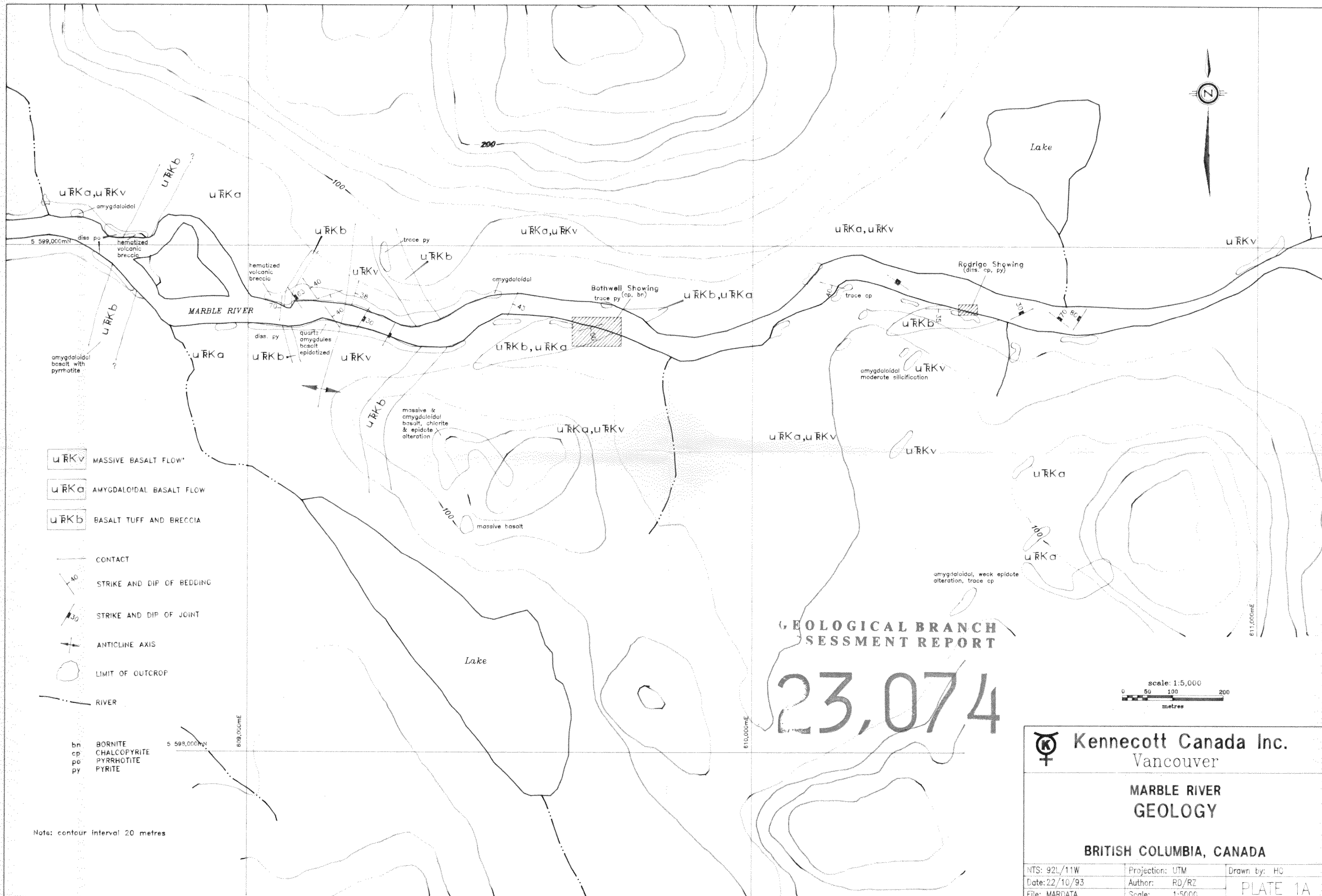
MARBLE RIVER

DETAILED GEOLOGY RODRIGO SHOWING

BRITISH COLUMBIA, CANADA

NTS: 92L/11W	Projection: UTM	Drawn by: HO
Date: 22/10/93	Author: RD/RZ	PLATE 1C
File: MARBROD	Scale: 1:100	


chalcopyrite associated with quartz amygdules
pyrite in fractures
Marble River
fine-grained basalts with strong chl-CaCO3 and sulfide-bearing veinlets
fine-grained basalts with CaCO3 alteration and minor disseminated chalcopyrite
intense fracturing
intense fracturing with veinlets of bornite-chalcopyrite and quartz-CaCO3 alteration
disseminated pyrite
basalt with quartz-carbonate and/or chlorite amygdules
breccia
limit of outcrop
contact
vegetation
boulders
strike of bedding
strike and dip of joint
GEOLOGICAL BRANCH ASSESSMENT REPORT
23,074
scale: 1:250
metres
Kennecott Canada Inc.
Vancouver
MARBLE RIVER
DETAILED GEOLOGY
BOTHWELL SHOWING
BRITISH COLUMBIA, CANADA
NTS: 92L/11W
Date: 22/10/93
File: MARBWELL
Projection: UTM
Author: RD, RZ
Scale: 1:250
Drawn by: HO
PLATE 1B



uTRKa,uTRKv
amygdaloidal
diss po
hematized volcanic breccia
5 599,000mN
uTRKb
uTRKa
uTRKb
trace py
uTRKb
uTRKv
uTRKa,uTRKv
uTRKa,uTRKv
uTRKv
Lake
hematized volcanic breccia
amygdaloidal
Bothwell Showing
trace py (cp, bn)
uTRKb,uTRKa
Rodrigo Showing (diss. cp, py)
trace cp
MARBLE RIVER
uTRKb
diss. py
quartz amygdules basalt epidotized
uTRKa
uTRKb
uTRKv
uTRKb,uTRKa
uTRKb
amygdaloidal basalt with pyrrhotite
amygdaloidal moderate silicification
uTRKv
uTRKb
massive & amygdaloidal basalt, chlorite & epidote alteration
uTRKa,uTRKv
uTRKa,uTRKv
uTRKv
uTRKa
massive basalt
uTRKa
amygdaloidal, weak epidote alteration, trace cp
200
100
100
100
uTRKv MASSIVE BASALT FLOW
uTRKa AMYGDALOIDAL BASALT FLOW
uTRKb BASALT TUFF AND BRECCIA
CONTACT
STRIKE AND DIP OF BEDDING
STRIKE AND DIP OF JOINT
ANTICLINE AXIS
LIMIT OF OUTCROP
RIVER
bn BORNITE
cp CHALCOPYRITE
po PYRRHOTITE
py PYRITE
5 598,000mN
609,000mE
610,000mE
611,000mE
Lake
Note: contour interval 20 metres
GEOLOGICAL BRANCH
ASSESSMENT REPORT
23,074
scale: 1:5,000
0 50 100 200
metres
Kennecott Canada Inc.
Vancouver
MARBLE RIVER
GEOLOGY
BRITISH COLUMBIA, CANADA
NTS: 92L/11W
Date: 22/10/93
File: MARDATA
Projection: UTM
Author: RD/RZ
Scale: 1:5000
Drawn by: HC
PLATE 1A