

Nizi Project
BC-96-2

Diamond Drill Report
on the
NIZI CLAIMS
Liard Mining Division
Latitude 58° 59' North
Longitude 129° 00' West
NTS 104 I/14+15
British Columbia

November 16, 1996

for
MADRONA MINING LIMITED
Calgary, Alberta

Owner of claims:
Lawrence Barry
#860, 625 Howe Street
Vancouver, BC V6C 2T6

by
William C. Day, B.Sc., P.Geol.

TAIGA CONSULTANTS LTD.
#301, 1000 - 8th Avenue S.W. **MINERALOGICAL SURVEY BRANCH**
Calgary, Alberta T2P 3M7 **ASSESSMENT REPORT**

25,082

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INTRODUCTION

This report was prepared at the request of Dr. Michael Marchand, Director of Madrona Mining Limited, and concerns a diamond drill program conducted during the period September 3 to 23, 1996 on the Nizi claims, British Columbia, under a joint venture with Orogrande Resources Inc. Six holes were drilled during the course of the program for an aggregate total of 3022 feet.

Falcon Drilling of Prince George, B.C. was contracted to do the drilling and Vancouver Island Helicopters of Stewart, B.C. was contracted for the transportation requirements. A camp was established 26 km northwest of the claim on a small reserve rented from the Dease River Band.

Selected portions of the drill core were split and submitted for analysis to TerraMin Research Labs Ltd. of Calgary, Alberta. The core was stacked for storage in a small clearing on the east side of the road 3.75 km north of the project camp site. The camp was situated on the Dease River Indian Band Reservation, located on a major bend in the Dease River at the junction with the Rapid River. The road to the camp site joins the road to the Boya Lake Provincial Park road at the park entrance. The camp site is 13 km from the main Stewart-Cassiar highway.

Location and Access

The Nizi claims (Figure 1) are located in north-central British Columbia and can be found on NTS map sheets 104 I/14 and 15. They are centred at 58°59' North latitude and 129°00' West longitude. Good Hope Lake is the nearest community to the property, located 39 km to the northwest on the Stewart/Cassiar Highway. The property can be accessed only by helicopter at the present time.

Located within the Cassiar Mountains the topography in the claim area is highly variable. The elevation ranges from 1100 metres to 2010 metres ASL with slopes being generally steep but can be locally precipitous. Most of the property is above tree line and the flora consists of alpine grasses and shrubs except in the steeper areas which are scree covered or outcrop.

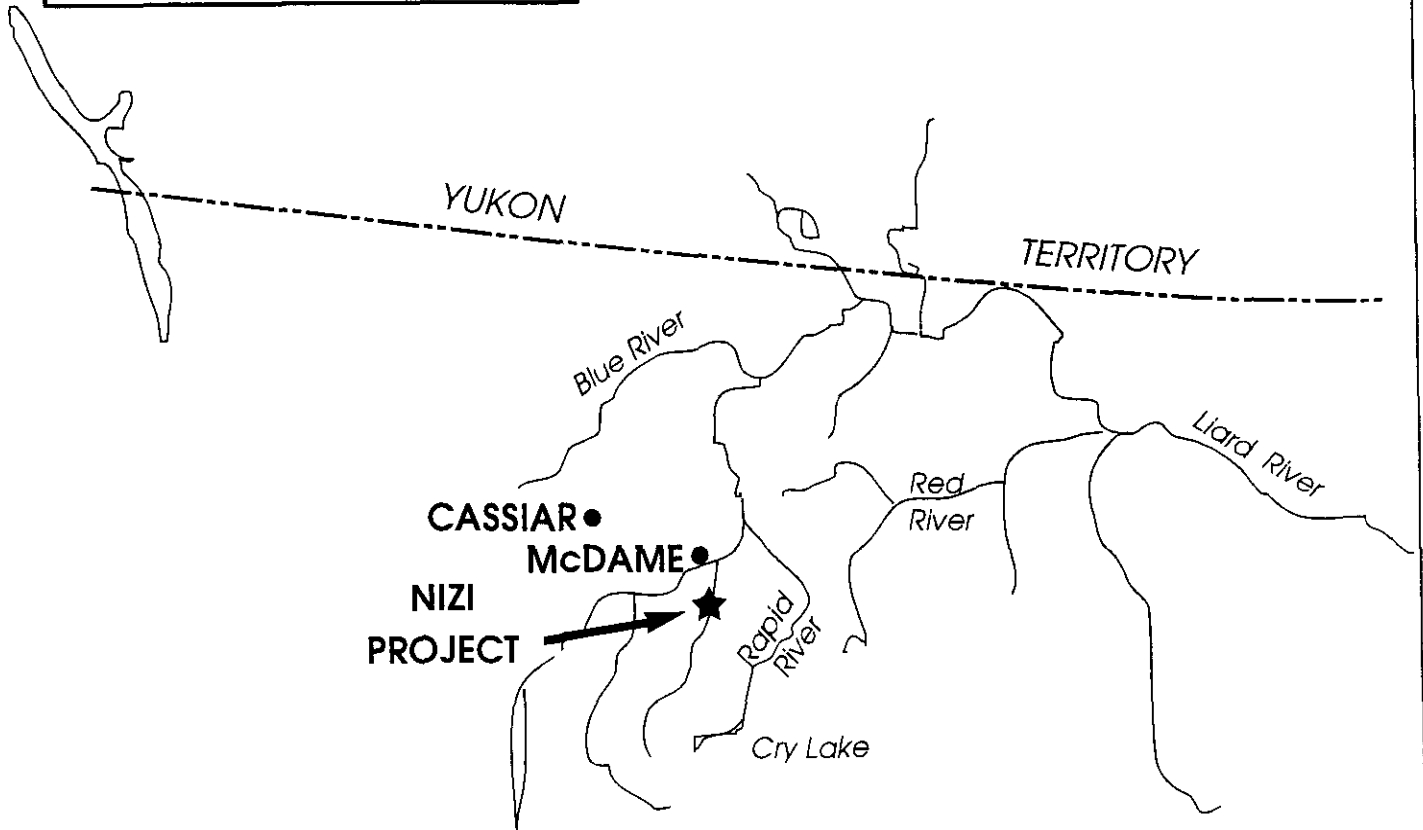
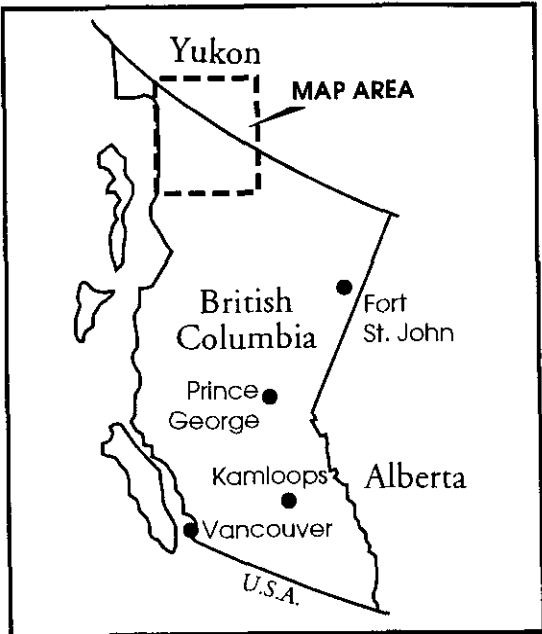
Claims Data

The property (Figure 2) is comprised of two modified grid system claims composing 28 claim units, stated on August 13, 1994, as per:

| <u>Claim Name</u> | <u>Number</u> | <u>Units</u> | <u>Expiry Date</u> |
|-------------------|---------------|--------------|--------------------|
| Nizi 1 | 330062 | 18 | Aug. 13, 1997 |
| Nizi 2 | 330063 | 10 | Aug. 13, 1997 |

The claims are held in the name of Oro Grande Resources Inc. which has in turn optioned the property to Madrona Mining Limited.

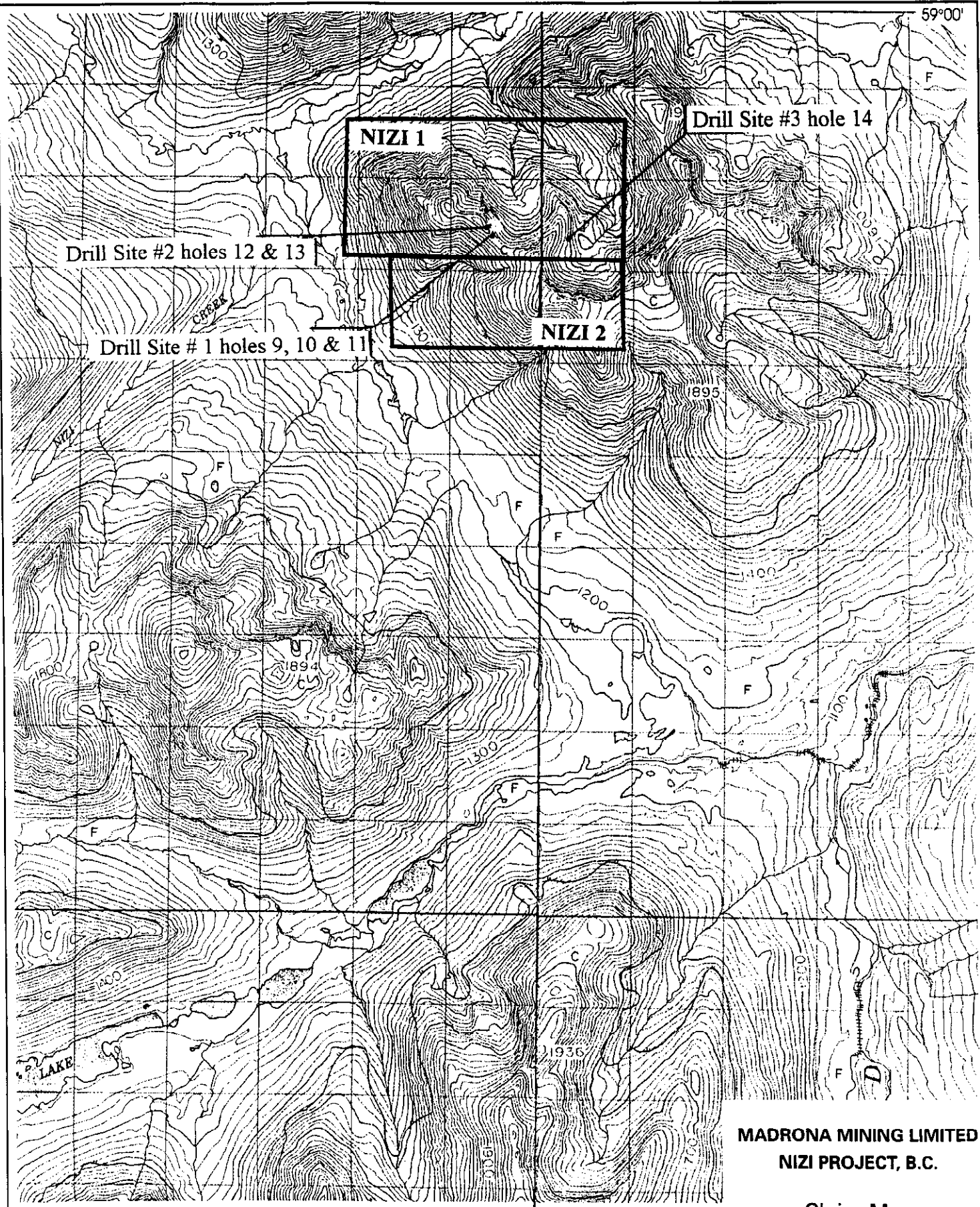
Taiga Consultants Ltd. has not verified the ownership or claim status of these properties and makes no claim as to the accuracy of the above information which was obtained from Madrona Mining and Oro Grande Resources.



MADRONA MINING LIMITED
NIZI PROJECT, B.C.
LOCATION MAP

Figure 1

59°00'



**MADRONA MINING LIMITED
NIZI PROJECT, B.C.**

**Claim Map
Figure 2**



129°00'

EXPLORATION HISTORY

The Nizi Claims were first staked in 1969 by J. Altenbury. They were located to cover an extensive gossanous zone of polymetallic mineralization hosted within veins and shears.

In 1970, a small soil sample survey was conducted in conjunction with a geological evaluation. Anomalous concentrations of lead and zinc were found to be associated with north trending topographical lineaments. Sumac Mines Limited optioned the property in 1972 and explored the area for a porphyry-style copper deposit through geological mapping and soil/silt geochemical surveys. Though several silver/zinc anomalies and a high gold anomaly were identified, the claims were allowed to lapse in 1973.

The area was re-staked in 1979 by Regional Resources Ltd. This company conducted detailed geological mapping and geochemical surveys to assess the gold and silver potential on the property. Gold, silver, lead, and zinc anomalies were located which confirmed and extended those identified by Sumac Mines Limited. Regional Resources Ltd. conducted further exploration in 1982 and defined additional silver, gold, zinc, and lead mineralization.

The claims were again allowed to expire and were subsequently staked in 1987 by Gold Giant Minerals Inc. This company established a 36.4 km grid from which 1,060 soil samples were collected. Geophysical surveys (magnetometer and VLF-EM) were also conducted. Additional exploration in 1991 outlined a quartz vein/stock work system that is highly anomalous in gold and silver and the area became the focus for subsequent work.

An airborne geophysical survey was completed in the spring of 1992 and was followed up by a diamond drill program having an aggregate total of 957.38 metres drilled in 5 holes. These five holes were drilled for Gold Fields Canadian Mining Ltd., the project operator. The claim owners at this time (Gold Giant Minerals Inc.) also drilled an additional three holes at the conclusion of the first program. These later holes had an aggregate total of 343.82 metres.

The showings were restaked by Hunter Explorations in 1994. Oro Grande Resources Inc. acquired the properties from the stakers in 1995 and Madrona Mining Limited entered into its present option agreement with Oro Grande Resources Inc. in July 23, 1996.

The Nizi property falls within the study area of a 1996 B.C. Geological Survey Open File RGS-44 a stream sediment geochemical survey which indicates coincident Au-Sb-As-Ag-Ba and Cu-Pb-Zn-Ag-Ba anomalies (maps 51 and 52; Bond, 1993). This is shown along with the geology of the area in Figures 3 and 4.

GEOLOGY

(after W.D. Bond, 1993)

The rocks in the claim area are composed of metavolcanic and metasedimentary assemblages (Figure 3). A main metavolcanic sequence forms a wedge in the centre of the area that is at least 1200 metres thick in the northwest and thins to about 200 metres in the southeast by Zinc Lake. All of the significant mineralization located to date is hosted within the main metavolcanic sequence. The volcanic wedge comprises numerous mafic, intermediate, and felsic units which form a complex interlayered package.

Mafic to intermediate volcanics form about 35% of the main volcanic sequence. They become increasingly felsic from northwest to southeast, and are comprised of fine- to medium-grained massive flows with lesser porphyritic flows. Brecciated and/or highly fractured phases occur locally which may be carbonatized and/or silicified.

Intermediate felsic volcanic rocks form the greatest proportion of the main volcanic wedge hosting the mineralization. They are fine- to medium-grained flows and tuffs which are commonly brecciated. Strong shear fracturing is locally exhibited and a pyroclastic and/or flow origin is evident in much of the sequence cored.

Felsic volcanic/subvolcanic rocks form the smallest portion of the main volcanic unit. They are generally massive, fine-grained, light grey to buff to chalky white to locally black in colour. The rocks can exhibit a spotted, mottled black/white texture locally.

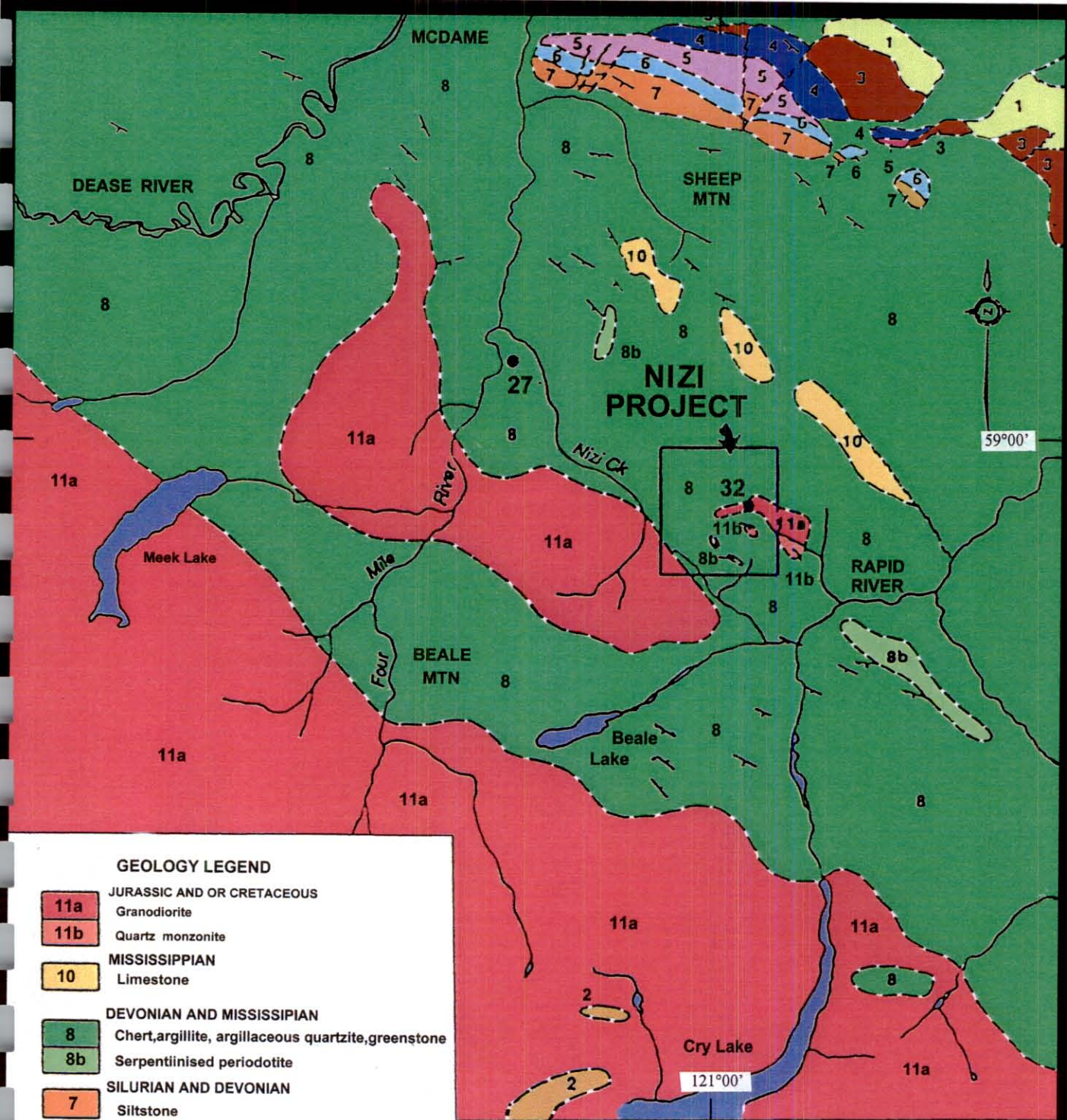
The felsic volcanic/subvolcanic sequence forms two major formations. The more southerly formation may be relatively continuous while the northern formation is a series of lens-like zones ranging up to 60 metres wide by 250 metres long. Three southeasterly lenses in the northern formation are host to, or at least near to, most of the known gold-bearing quartz vein/shear structures. Most of these rocks appear to be of pyroclastic origin with portions being subjected to silicification.

The most evident structures in the area are north to northwest trending faults ranging from less than a few centimetres to three metres in width. They are near vertical and are marked by intense Fe-carbonate alteration. In addition to the foregoing, there are east to southeast trending structures which are occupied by many of the quartz veins/veinlets found throughout the property, northeast trending fracture/jointing, north to northeast trending shears/fractures, and local breccia zones.

Alteration of the rocks can be variably carbonate, limonite/hematite, silicification, and sericitization. Pyrite is found disseminated throughout the felsic volcanic unit and also occurs locally in irregular patches, breccia matrix filling, swirls, and fracture filling.

Three main types of mineralization of economic significance are present in the claim area. These types are:

- a) sphalerite ± galena ± chalcopryrite ± gold ± silver associated with quartz carbonate veins/breccia in the felsic volcanic unit;
- b) sphalerite + galena + silver ± gold ± rare chalcopryrite associated with shears or fractures ± quartz/carbonate veins/breccia in intermediate and intermediate/felsic volcanics; and

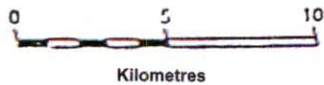


GEOLOGY LEGEND

- 11a** JURASSIC AND OR CRETACEOUS
Granodiorite
- 11b** Quartz monzonite
- 10** MISSISSIPPIAN
Limestone
- 8** DEVONIAN AND MISSISSIPPIAN
Chert, argillite, argillaceous quartzite, greenstone
- 8b** Serpentinised periodotite
- 7** SILURIAN AND DEVONIAN
Siltstone
- 6** SILURIAN
Dolomite
- 5** CAMBRIAN AND ORDOVICIAN
Shale
- 4** CAMBRIAN
Limestone
- 3** Quartzite
- 2** LOWER PAEOZOIC AND EARLIER
Quart mica gneiss

SYMBOLS

- Geographical contact
- Bedding
- Schistosity
- Fault
- 32 MinFile Occurrence



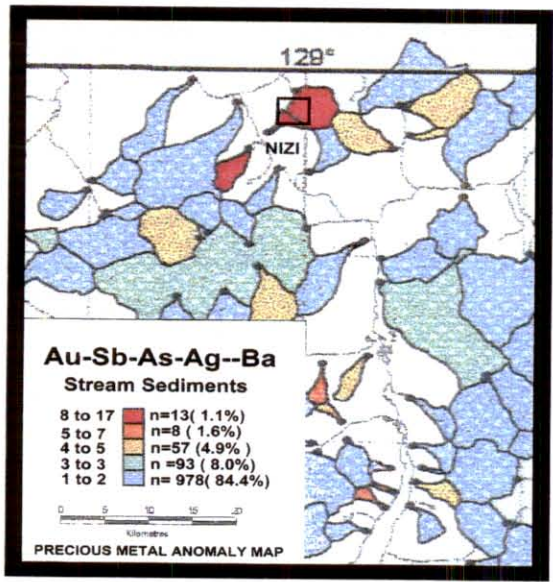
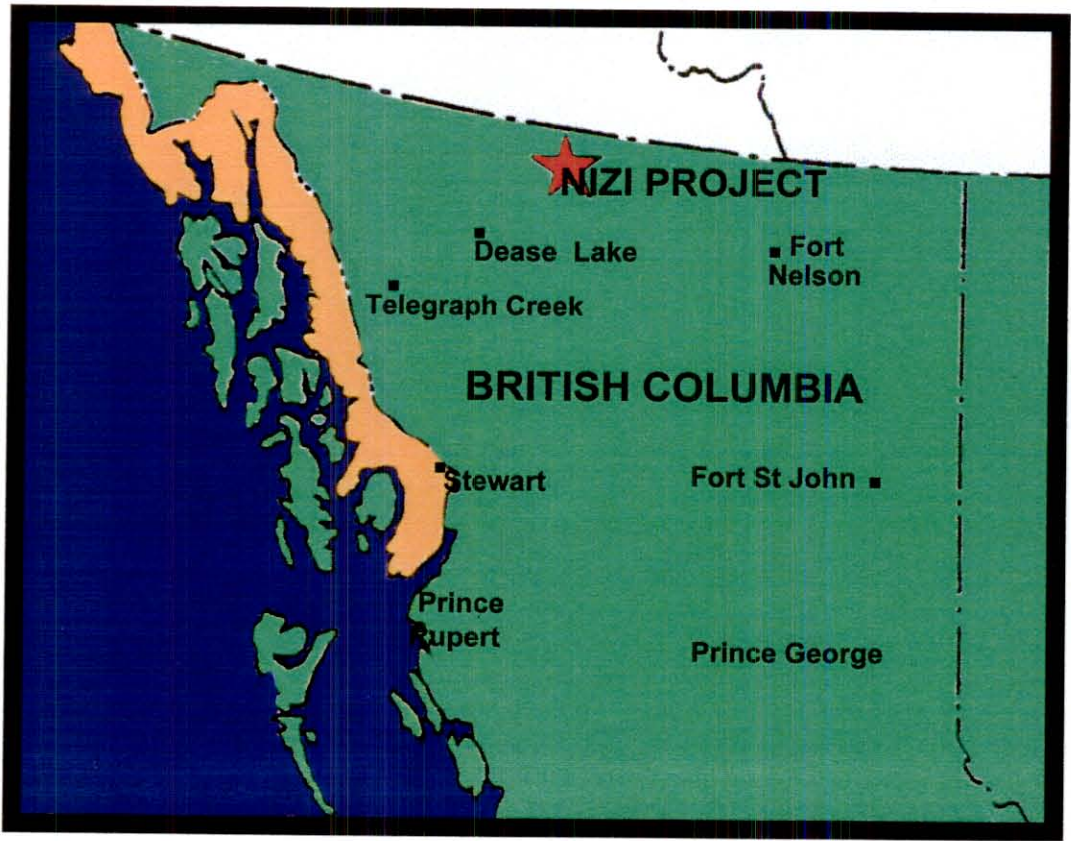
Geology After:
B.C. Geological Survey,
Open File # RGS-44,
Map # 3

NIZI PROJECT

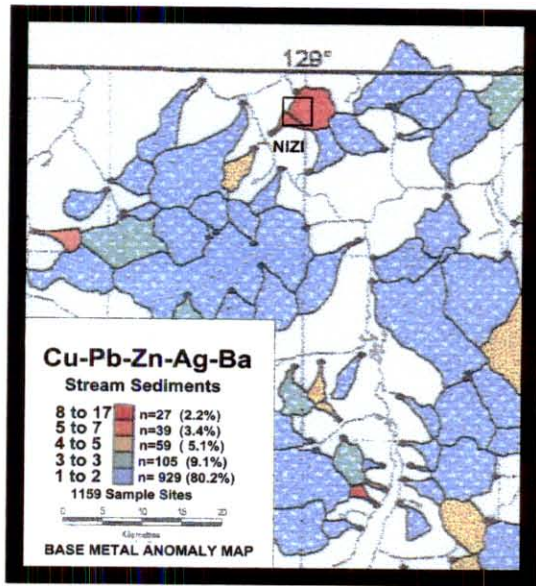
REGIONAL GEOLOGY

Liard Mining Division
British Columbia

Figure: 3



Map After: B.C. Geological Survey,
Open File # RGS-44; Map # 52



Map After: B.C. Geological Survey,
Open File # RGS-44; Map # 51

NIZI PROJECT: GEOCHEMICAL ANOMALIES

- c) gold ± silver ± sphalerite ± galena associated with silicified zones in the felsic volcanic unit near Zinc Lake.

Structures with the presence of quartz and/or significant amounts of sulphides are generally required for gold to be present.

DRILL PROGRAM

Six diamond drill holes were completed during the course of the program of subject in this report (Figure 5). The drilling was conducted by Falcon Drilling Ltd. of Prince George, B.C. who utilized a hydraulic rig developed by them. BW-sized core was recovered (1.654" or 4.2 cm diameter).

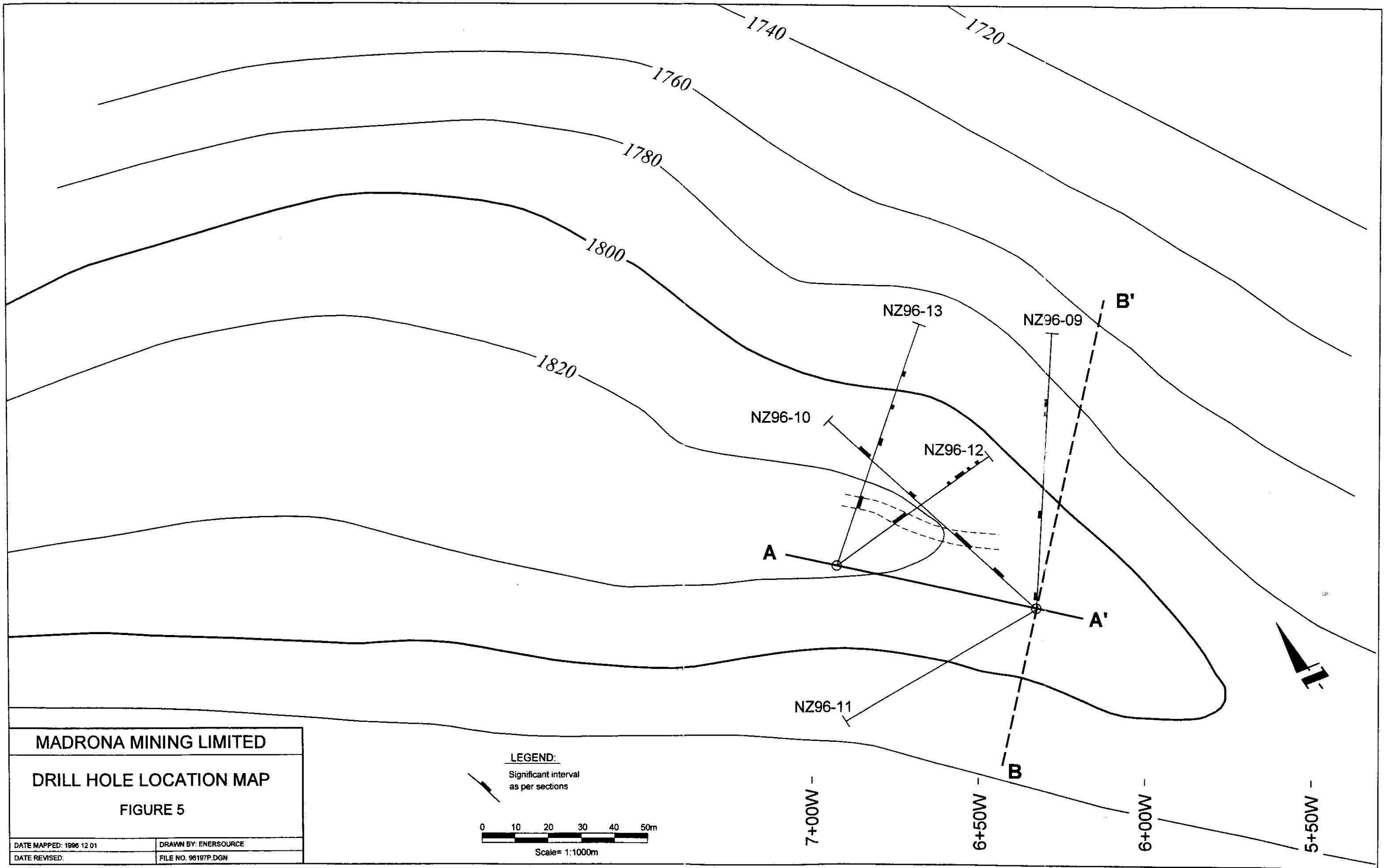
Five of the holes were drilled to test the area of the Discovery/Surprise vein structures. Two sites were used, with three holes being drilled from one site and two from another. The sixth hole was drilled in the Zinc Lake area to test the southeast extension of the felsic volcanic unit. Holes 96-9, 10, 12, and 13 were drilled to assess mineralization known as the Discovery and Surprise veins. Hole 96-11 was drilled for structural confirmation and, as previously noted, 96-14 was drilled at Zinc Lake to test the southeast extension of the favourable formation. The holes are plotted on individual sections (Figures 6 through 11), and then projected on cross sections A-A' (Figure 12) in the NW-SE plane and B-B' (Figure 13) in the SW-NE plane. Both cross sections are referenced to Figure 3.

The core was sampled based on alteration intensity and/or sulphide content. Generally, interesting intervals were split and bagged on a five-foot sample interval. The samples were sent to TerraMin Research Labs Ltd. of Calgary, Alberta, for analysis. Drill logs and assay results are appended to this report.

Significant assay results are plotted on the drill sections. Although the various zones appear to be structurally continuous most of the mineralization is inconsistent. An exception to this is evident in holes 96-10, 96-12, and 96-13

| Hole | Interval | Width | % Zn | % Pb | g/t Ag | g/t Au |
|-------|-----------|-------|------|------|--------|--------|
| 96-10 | 168'-183' | 15' | 2.49 | | | |
| | 183'-198' | 15' | 2.28 | .35 | 187.0 | |
| 96-12 | 213'-228' | 15' | 2.60 | 3.42 | 808.6 | 1.277 |
| | 228'-248' | 20' | 0.29 | | | |
| 96-13 | 123'-138' | 15' | 1.51 | .70 | | |
| | 138'-143' | 5' | .48 | | 1905.0 | 5.50 |

This zone of mineralization is hosted in a dacite/carbonate breccia within a strong shear. The zone is characterized by the presence of a sooty matte-black material tentatively identified as carbon. Of particular significance are breccia clasts consisting of massive sulphide and bedded material (dominantly sphalerite and galena), strongly indicative of a volcanogenic origin. The presence of these clasts imply that a volcanogenic massive sulphide deposit of unknown dimensions may be present at depth with the clasts having been torn away and incorporated in the breccia. That this zone of mineralization was not encountered in hole 96-9 is problematic, but there may be several reasons for its missing such as structural offset. It remains open to the northwest and at depth. The drilling indicates that it is steeply dipping (75° to 85°) and consistent with the dominant northwest-southeast structural orientation evident in the claim area. Each of holes 96-9, 96-10, 96-12, and 96-13 encountered at least two zones of sulphide enrichment at depth. These zones are characterized by having up to 10% pyrite as disseminations, blebs, flow breccia matrix, and/or fracture filling. Visible economic minerals present are sphalerite, galena, and chalcopyrite which are present as fracture filling within these general zones of pyrite mineralization. Most of the mineralization encountered in the drilling appears to be of epithermal derivation. The exceptions are the breccia fragments of massive sulphide (Zn, Pb, and Ag) mineralization previously noted which are considered to be of volcanogenic origin from a deposit at depth. A short summary of each hole and their significant intercepts follows (also see sections and drill logs):



MADRONA MINING LIMITED

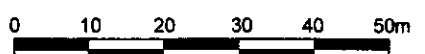
DRILL HOLE LOCATION MAP

FIGURE 5

| | |
|-------------------------|----------------------|
| DATE MAPPED: 1996 12 01 | DRAWN BY: ENERSOURCE |
| DATE REVISED: | FILE NO. 96197P.DGN |

LEGEND:

Significant interval
as per sections



Scale= 1:1000m

NZ 96-09 (Figure 6)

| | | | | |
|-----------------|-------------|----------------------|----------------|---|
| Azimuth 033° | Dip -60° | Depth 548' (144m) | Elev. 1808m | Target Surprise and Discovery veins |
|-----------------|-------------|----------------------|----------------|---|

The rocks cut in this hole are dominantly dacitic tuff, usually light grey in colour that commonly exhibit flow breccia and less commonly fault breccia; limonitic alteration is variable but can be intense, particularly at shallow depths, parting surfaces are also commonly limonitic or hematitic. Minor pyrite is disseminated throughout the section with two zones of strong pyritization (5-10%) occurring from 319' to 363' and 438' to 535'. Significant intersections encountered in this hole include:

| <u>Interval</u> | <u>Width</u> | <u>% Zn</u> | <u>% Pb</u> | <u>g/t Ag</u> | <u>g/t Au</u> |
|-----------------|--------------|-------------|-------------|---------------|---------------|
| 17'-32' | 15' | .550 | | | |
| including | 5' | | .620 | 233.10 | 1.840 |
| 178'-193' | 15' | .218 | | | |
| 348'-353' | 5' | .169 | .079 | 45.00 | 1.461 |
| 378'-388' | 10' | .285 | .100 | 161.85 | 12.800 |

metallic assays were conducted on two of these sections with the following results:

| | | | |
|-----------|----------------------|--|---------------|
| 348'-353' | 1st assay | | 1.460 g/t Au |
| | 2nd assay (metallic) | | 1.286 g/t Au |
| 378'-388' | 1st assay | | 12.800 g/t Au |
| | 2nd assay (metallic) | | 14.908 g/t Au |

NZ 96-10 (Figure 7)

| | | | | |
|-----------------|-------------|---------------|----------------|---|
| Azimuth 342° | Dip -60° | Depth 548' | Elev. 1808m | Target Surprise and Discovery veins |
|-----------------|-------------|---------------|----------------|---|

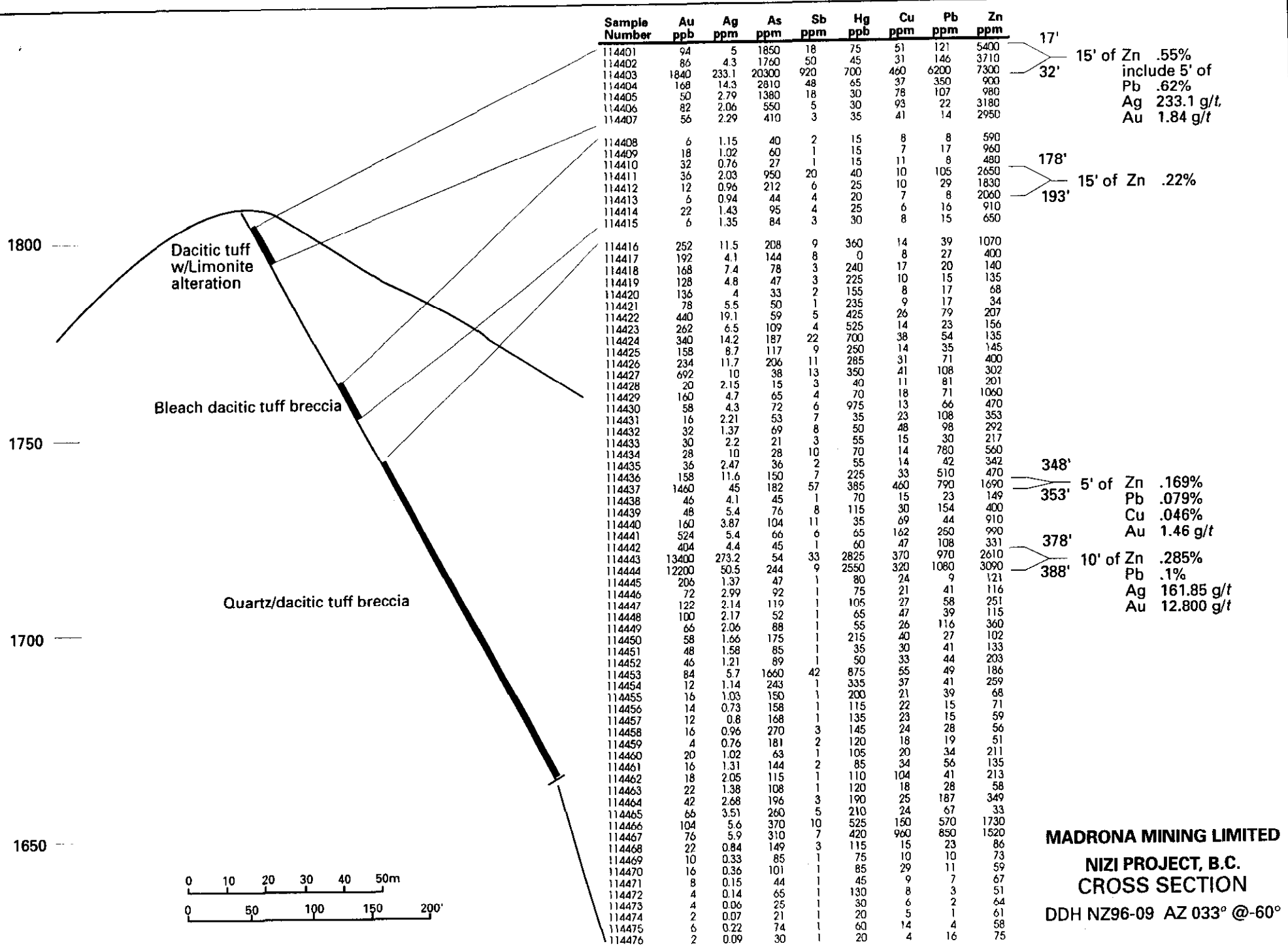
The principal rock type in this hole is again dacitic tuff that exhibit flow and fault brecciation as in 96-09. Intense limonitic alteration is present in the upper portions of the hole where parting surfaces are also coated with limonite and/or hematite. Again, pyrite is disseminated throughout the hole with more intense pyritization occurring in two zones from 318' to 356' and from 456' to 525'. Significant intercepts in this hole include:

| <u>Interval</u> | <u>Width</u> | <u>% Zn</u> | <u>% Pb</u> | <u>g/t Ag</u> | <u>g/t Au</u> |
|-----------------|--------------|-------------|-------------|---------------|---------------|
| 103'-123' | 20' | .078 | .232 | 78.45 | .428 |
| 183'-198' | 15' | 2.280 | .350 | 187.00 | |
| 358'-373' | 15' | .051 | | | 1.707 |
| 428'-453' | 25' | .200 | | | 2.074 |

The section from 428' to 453' was also assayed for metallics with the following results were:

| | |
|----------------------|--------------|
| 1st assay | 2.074 g/t Au |
| 2nd assay (metallic) | 1.471 g/t Au |

The interval 168'-183' was intensely fractured and brecciated (fault) with much of the breccia matrix being composed of a sooty matte-black material tentatively identified as primary carbon. Of particular interest in this section is the presence of breccia clasts preserved in carbonate material that are strongly indicative of a volcanogenic origin. They are variably bedded, massive sphalerite/galena, or massive sphalerite, or massive galena.



MADRONA MINING LIMITED
 NIZI PROJECT, B.C.
 CROSS SECTION
 DDH NZ96-09 AZ 033° @-60°

Figure 6

MADRONA MINING LIMITED

NIZI PROJECT, B.C.
CROSS SECTION

DDH NZ96-10 AZ 342° @-60°

Figure 7

1800

1750

1700

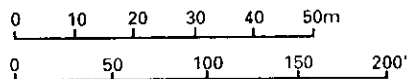
1650

Dacitic tuff
w/quartz veining,
shearing & clay
alteration & abundant
barite

Dacitic tuff breccia w/abundant
carbonate & mafic black
mineral (carbon?)

Dacitic tuff breccia w/sulphides to 5%

Dacitic tuff breccia w/sulphides to 10%



| Sample Number | Au ppb | Ag ppm | As ppm | Sb ppm | Hg ppb | Cu ppm | Pb ppm | Zn ppm |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 114477 | 54 | 2.91 | 155 | 5 | 35 | 37 | 19 | 1980 |
| 114478 | 150 | 5.8 | 203 | 3 | 70 | 61 | 74 | 1960 |
| 114479 | 138 | 8.7 | 260 | 10 | 85 | 23 | 230 | 2130 |
| 114480 | 860 | 61.5 | 175 | 7 | 170 | 12 | 540 | 610 |
| 114481 | 342 | 109.6 | 156 | 17 | 195 | 16 | 630 | 500 |
| 114482 | 328 | 84.1 | 270 | 34 | 310 | 15 | 6000 | 640 |
| 114483 | 180 | 58.6 | 173 | 14 | 180 | 35 | 2100 | 1380 |
| 114484 | 32 | 3.6 | 167 | 8 | 40 | 27 | 260 | 3290 |
| 114485 | 36 | 1.55 | 154 | 2 | 30 | 16 | 14 | 2710 |
| 114486 | 160 | 3.85 | 192 | 3 | 30 | 39 | 38 | 2370 |
| 114487 | 82 | 2.43 | 212 | 2 | 25 | 34 | 16 | 3100 |
| 114488 | 26 | 1.16 | 115 | 1 | 15 | 9 | 5 | 1730 |
| 114489 | 28 | 1.47 | 147 | 1 | 80 | 22 | 4 | 3270 |
| 114490 | 58 | 1.64 | 236 | 5 | 25 | 15 | 10 | 3400 |
| 114491 | 98 | 2.72 | 570 | 9 | 45 | 40 | 21 | 3190 |
| 114492 | 124 | 8.2 | 1300 | 67 | 135 | 46 | 520 | 5900 |
| 114493 | 36 | 6.7 | 2900 | 177 | 200 | 40 | 370 | 40000 |
| 114494 | 20 | 9 | 3100 | 410 | 115 | 48 | 430 | 30200 |
| 114495 | 12 | 1.56 | 148 | 23 | 35 | 9 | 59 | 4600 |
| 114496 | 486 | 490.4 | 2250 | 2600 | 1425 | 670 | 8400 | 28200 |
| 114497 | 300 | 59.6 | 1470 | 490 | 1000 | 510 | 1940 | 28400 |
| 114498 | 176 | 11 | 1630 | 142 | 295 | 86 | 290 | 11900 |
| 114499 | 90 | 16 | 1140 | 98 | 330 | 31 | 470 | 8500 |
| 114500 | 32 | 4 | 280 | 36 | 180 | 12 | 134 | 4600 |
| 114501 | 40 | 6.1 | 209 | 18 | 290 | 19 | 390 | 7400 |
| 114502 | 68 | 6.2 | 290 | 51 | 130 | 19 | 440 | 4300 |
| 114503 | 24 | 3.09 | 255 | 63 | 40 | 16 | 290 | 1920 |
| 114504 | 450 | 3.34 | 145 | 67 | 65 | 24 | 108 | 1290 |
| 114505 | 428 | 5.5 | 79 | 22 | 90 | 159 | 93 | 370 |
| 114506 | 22 | 2.8 | 29 | 10 | 50 | 10 | 19 | 284 |
| 114507 | 10 | 2.6 | 18 | 4 | 40 | 8 | 21 | 131 |
| 114508 | 16 | 2.15 | 15 | 5 | 30 | 12 | 16 | 77 |
| 114509 | 36 | 1.48 | 42 | 3 | 210 | 9 | 16 | 162 |
| 114510 | 18 | 0.77 | 25 | 2 | 40 | 9 | 14 | 245 |
| 114511 | 32 | 1.65 | 70 | 2 | 80 | 10 | 27 | 165 |
| 114512 | 8 | 1.95 | 59 | 2 | 125 | 9 | 39 | 133 |
| 114513 | 4 | 1.33 | 33 | 2 | 75 | 8 | 27 | 174 |
| 114514 | 4 | 1.3 | 16 | 2 | 35 | 7 | 19 | 167 |
| 114515 | 14 | 1.39 | 15 | 3 | 40 | 7 | 20 | 284 |
| 114516 | 14 | 1.78 | 17 | 2 | 50 | 19 | 31 | 187 |
| 114517 | 24 | 2.24 | 28 | 3 | 60 | 9 | 18 | 241 |
| 114518 | 24 | 1.74 | 18 | 1 | 50 | 8 | 25 | 660 |
| 114519 | 3160 | 51.5 | 34 | 37 | 775 | 96 | 260 | 830 |
| 114520 | 172 | 3.9 | 38 | 9 | 175 | 46 | 50 | 223 |
| 114521 | 1788 | 6 | 48 | 7 | 190 | 73 | 127 | 490 |
| 114522 | 132 | 3.68 | 72 | 7 | 230 | 18 | 49 | 366 |
| 114523 | 56 | 1.96 | 27 | 3 | 115 | 9 | 23 | 177 |
| 114524 | 34 | 3.03 | 41 | 6 | 220 | 10 | 32 | 197 |
| 114525 | 1274 | 6.5 | 40 | 7 | 210 | 17 | 24 | 130 |
| 114526 | 42 | 2.85 | 57 | 4 | 85 | 12 | 40 | 292 |
| 114527 | 46 | 2.66 | 40 | 4 | 300 | 11 | 18 | 166 |
| 114528 | 70 | 4.7 | 69 | 6 | 135 | 25 | 174 | 172 |
| 114529 | 110 | 3.78 | 91 | 11 | 425 | 23 | 165 | 215 |
| 114530 | 748 | 9.6 | 430 | 32 | 2950 | 48 | 290 | 1330 |
| 114531 | 202 | 5.1 | 254 | 18 | 1450 | 30 | 290 | 820 |
| 114532 | 174 | 3.87 | 270 | 17 | 1000 | 25 | 79 | 359 |
| 114533 | 1112 | 12.9 | 790 | 60 | 8500 | 142 | 590 | 1430 |
| 114634 | 220 | 2.77 | 160 | 8 | 1050 | 13 | 32 | 119 |
| 114535 | 4180 | 22.7 | 250 | 36 | 3375 | 184 | 920 | 1570 |
| 114536 | 3040 | 8.5 | 215 | 9 | 2050 | 186 | 840 | 3590 |
| 114537 | 1816 | 14.3 | 105 | 9 | 1225 | 470 | 1160 | 3290 |
| 114538 | 832 | 35 | 1050 | 47 | 6500 | 78 | 330 | 900 |
| 114539 | 158 | 11.2 | 217 | 8 | 625 | 66 | 156 | 303 |
| 114540 | 940 | 92 | 1590 | 88 | 9000 | 410 | 1090 | 1440 |
| 114541 | 668 | 45.2 | 970 | 45 | 2450 | 83 | 178 | 620 |
| 114642 | 222 | 14.7 | 410 | 33 | 1275 | 270 | 520 | 1730 |

103'

20' of Zn .078%

Pb .232%

Ag 78.45 g/t

Au .428 g/t

123'

168'

15' of Zn 2.49%

183'

15' of Zn 2.28%

Pb .35%

Ag 187 g/t

198'

358'

15' of Zn .051%

Au 1.707 g/t

373'

428'

25' of Zn 0.2%

Au 2.074 g/t

453'

NZ 96-11 (Figure 8)

| | | | | |
|---------|------|----------------|-------|-------------------------|
| Azimuth | Dip | Depth | Elev. | Target |
| 270° | -60° | 438' (133.54m) | 1808m | structural confirmation |

This hole was drilled to assess the mineralization in any cross-cutting structures that might be encountered. The rocks cored were dominantly dacitic tuff. The upper reaches of the hole were jasperoidal (0-109') hosting a trace to 3% pyrite. The balance of the hole was dacitic tuff variably brecciated. Significant intersections in this hole include:

| <u>Interval</u> | <u>Width</u> | <u>% Zn</u> | <u>% Pb</u> | <u>g/t Ag</u> | <u>g/t Au</u> |
|-----------------|--------------|-------------|-------------|---------------|---------------|
| 337'-338' | 1' | 1.99 | | | |
| 381'-382' | 1' | | | | 1.416 |

NZ 96-12 (Figure 9)

| | | | | |
|---------|------|----------------|-------|---------------------------------|
| Azimuth | Dip | Depth | Elev. | Target |
| 083° | -70° | 542' (165.24m) | 1832m | Surprise and Discovery veins |

This hole was designed to intersect the mineralization encountered in 96-10 between 168'-183' but from a different orientation. The dominant rock type in this hole is dacitic tuff, variably brecciated, both flow and fault. From surface to 167', the rock is dominantly maroon in colour, variably jasperoidal, and exhibiting pyroclastic textures. Again, two zones of strong pyritization were encountered at depth. The first zone is between 357' and 400' while the second was cut between 408' and 528'. Significant intersections include:

| <u>Interval</u> | <u>Width</u> | <u>% Zn</u> | <u>% Pb</u> | <u>g/t Ag</u> | <u>g/t Au</u> | |
|-----------------|--------------|-------------|-------------|---------------|---------------|----------|
| 213'-228' | 15' | 2.600 | 3.42 | 808.6 | 1.277 | |
| 228'-248' | 20' | .290 | | | | |
| 383'-393' | 10' | .567 | .30 | 47.2 | 1.426 | .079% Cu |
| 408'-433' | 25' | | | 23.46 | 2.178 | |
| 473'-478' | 5' | .115 | | | | |

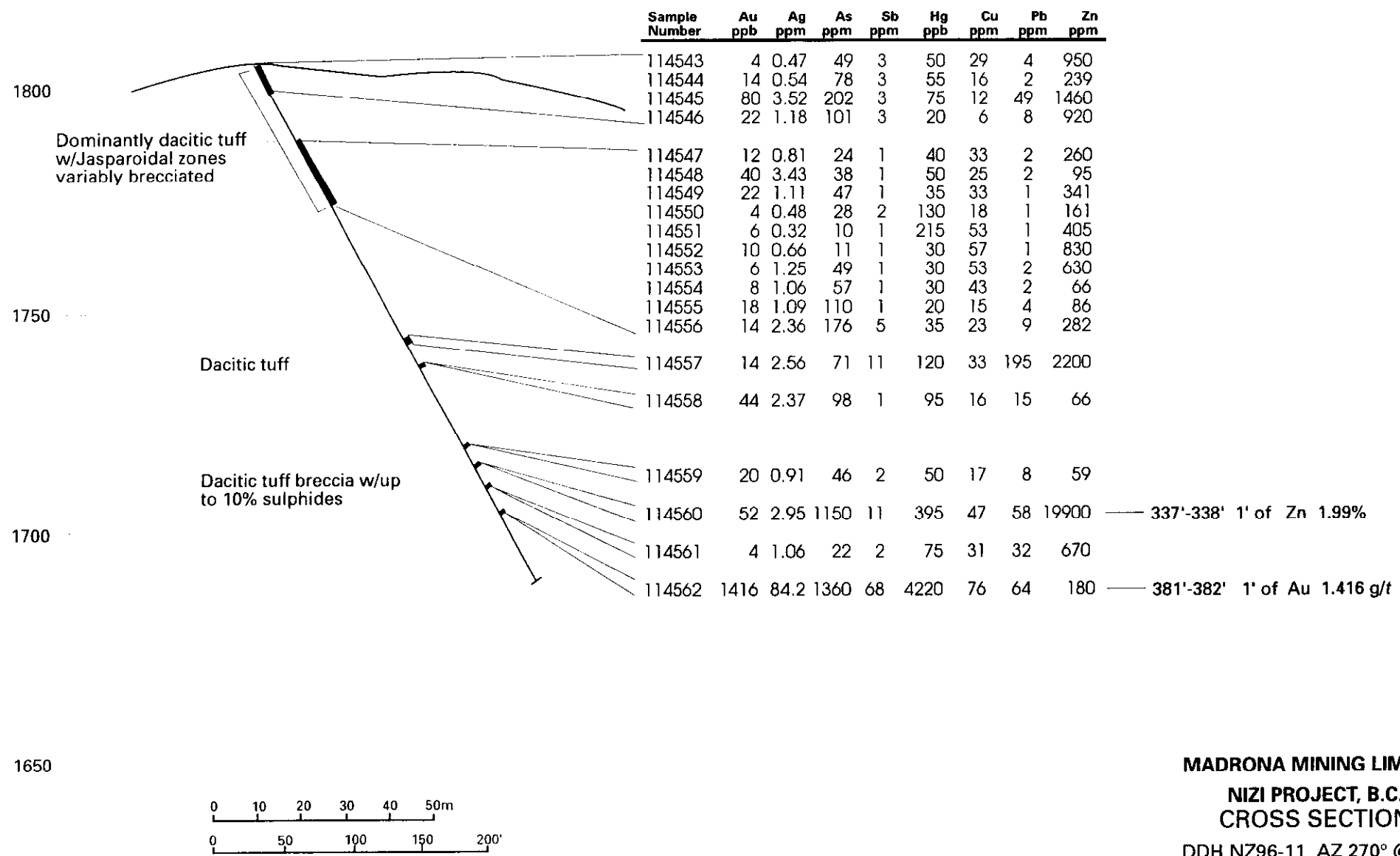
The section from 212' to 230' corresponds to that encountered in 96-10 between 168' and 183' with the same sooty matrix material and massive sulphide clasts encased in carbonate.

NZ 96-13 (Figure 10)

| | | | | |
|---------|------|----------------|-------|---------------------------|
| Azimuth | Dip | Depth | Elev. | Target |
| 047° | -60° | 498' (151.78m) | 1832 | Surprise, Discovery Veins |

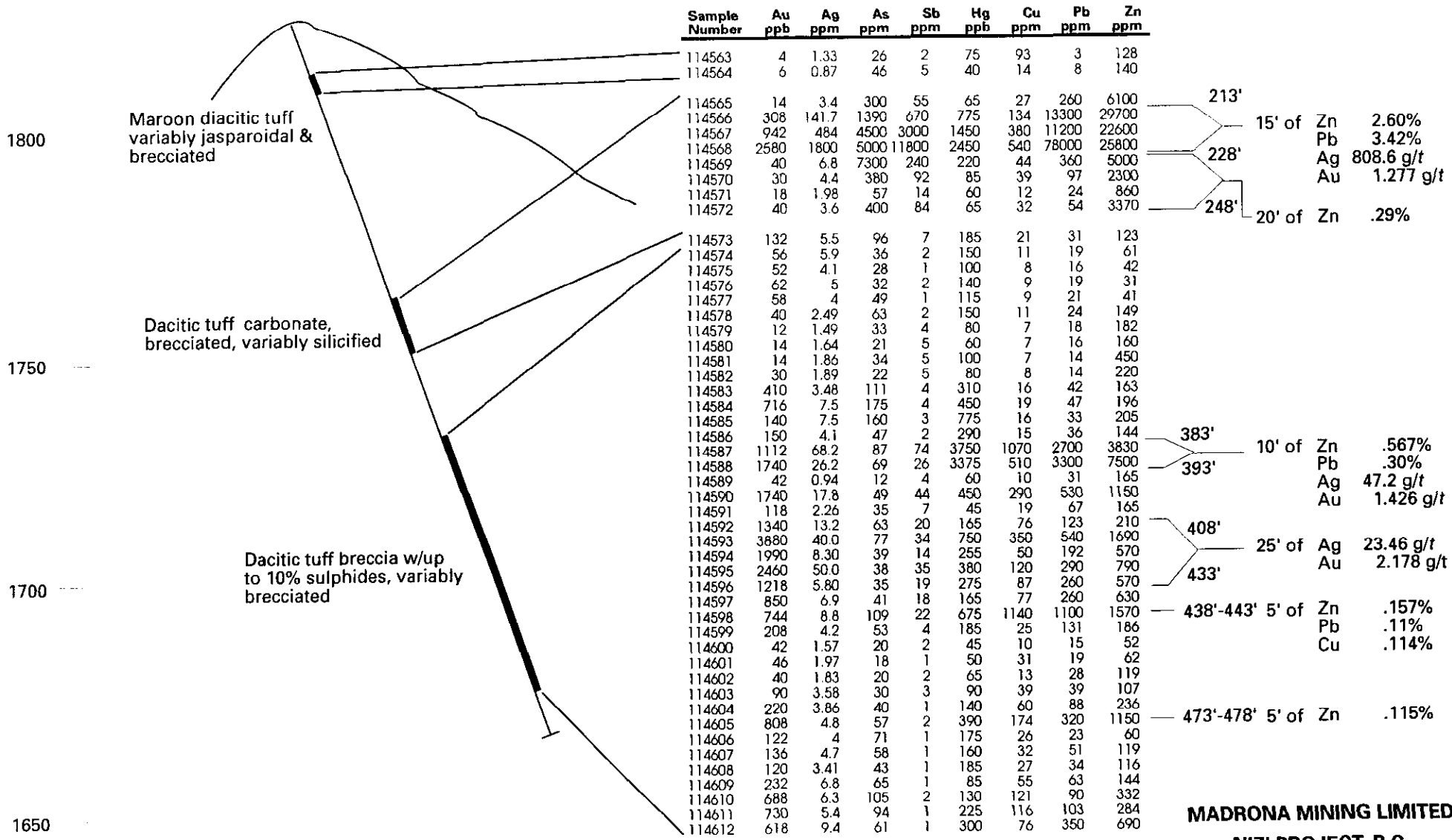
The dominant rock type in this hole is dacitic tuff that is variably brecciated. From surface to about 120', the rock is variably maroon, jasperoidal or green dacitic tuff. The two zones of pyritization are somewhat weaker than those encountered in holes 9, 10, and 12. One zone was cored from 314' to 340' and contained 3 to 5% pyrite while the second was cut from 473' to 493' and contained up to 10% sulphides. Significant intersections in this hole include:

| <u>Interval</u> | <u>Width</u> | <u>% Zn</u> | <u>% Pb</u> | <u>g/t Ag</u> | <u>g/t Au</u> |
|-----------------|--------------|-------------|-------------|---------------|---------------|
| 123'-138' | 15' | 1.510 | .70 | | |
| 138'-143' | 5' | .480 | | 1905.00 | 5.500 |
| 253'-263' | 10' | | | 173.05 | |
| 323'-328' | 5' | | | | 1.024 |
| 355'-358' | 3' | .169 | | | |



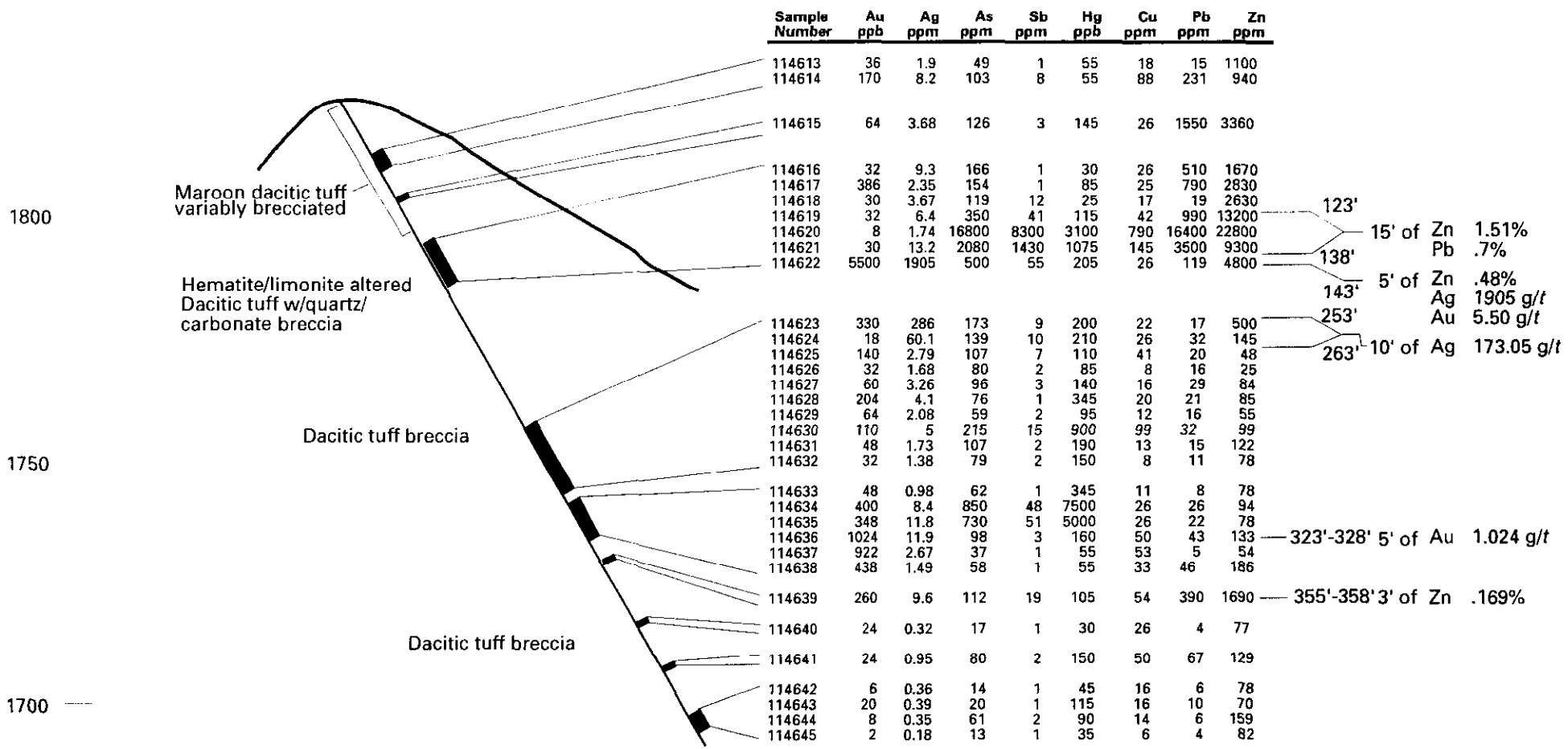
MADRONA MINING LIMITED
 NIZI PROJECT, B.C.
 CROSS SECTION
 DDH NZ96-11 AZ 270° @-60°

Figure 8



MADRONA MINING LIMITED
NIZI PROJECT, B.C.
CROSS SECTION
 DDH NZ96-12 AZ 083° @-70°

Figure 9



MADRONA MINING LIMITED
 NIZI PROJECT, B.C.
 CROSS SECTION
 DDH NZ96-13 AZ 047° @-60°

Figure 10

NZ 96-14 (Figure 11)

| | | | | |
|---------|------|----------------|-------|--|
| Azimuth | Dip | Depth | Elev. | Target |
| 030° | -60° | 448' (136.54m) | 1719m | eastern extension of the main metavolcanic pile |

Variably brecciated dacitic tuffs were encountered in this hole. The zone at surface is represented by gossanous material hosting strong pyrite mineralization with stringers and veinlets of sphalerite and galena. Three significant intersections were encountered in the hole from:

| <u>Interval</u> | <u>Width</u> | <u>% Zn</u> | <u>% Pb</u> | <u>g/t Ag</u> | <u>g/t Au</u> |
|-----------------|--------------|-------------|-------------|---------------|---------------|
| 53'-58' | 5' | .175 | 0.10 | | |
| 423'-428' | 5' | .106 | | | |
| 438'-443' | 5' | | | | 1.07 |

1800

1750

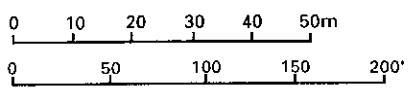
1700

1650

| Sample Number | Au ppb | Ag ppm | AS ppm | Sb ppm | Hg ppb | Cu ppm | Pb ppm | Zn ppm |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 114646 | 178 | 9.3 | 244 | 26 | 1050 | 14 | 51 | 200 |
| 114647 | 176 | 17.3 | 420 | 42 | 1175 | 15 | 1000 | 1750 |
| 114648 | 38 | 9.8 | 490 | 27 | 500 | 29 | 1030 | 690 |
| 114649 | 52 | 8 | 290 | 31 | 500 | 12 | 420 | 640 |
| 114650 | 20 | 5.6 | 280 | 32 | 750 | 8 | 68 | 195 |
| 114651 | 118 | 15 | 330 | 22 | 575 | 42 | 44 | 314 |
| 114652 | 86 | 6.3 | 270 | 9 | 600 | 23 | 23 | 86 |
| 114653 | 480 | 9.8 | 99 | 7 | 375 | 26 | 179 | 780 |
| 114654 | 10 | 2.48 | 61 | 1 | 80 | 21 | 17 | 106 |
| 114655 | 28 | 4.4 | 181 | 4 | 150 | 23 | 48 | 193 |
| 114656 | 18 | 2.85 | 91 | 3 | 65 | 21 | 18 | 44 |
| 114657 | 6 | 2.52 | 65 | 2 | 60 | 16 | 24 | 70 |
| 114658 | 40 | 3.43 | 113 | 4 | 120 | 14 | 28 | 139 |
| 114659 | 38 | 1.79 | 58 | 1 | 30 | 19 | 12 | 79 |
| 114660 | 98 | 2.3 | 80 | 1 | 65 | 24 | 45 | 161 |
| 114661 | 40 | 1.04 | 48 | 1 | 35 | 28 | 11 | 73 |
| 114662 | 84 | 2.4 | 85 | 1 | 50 | 20 | 42 | 189 |
| 114663 | 40 | 2.2 | 38 | 1 | 55 | 24 | 49 | 330 |
| 114664 | 40 | 1.89 | 50 | 1 | 40 | 25 | 81 | 338 |
| 114665 | 48 | 1.87 | 54 | 2 | 35 | 24 | 16 | 121 |
| 114666 | 36 | 1.32 | 37 | 1 | 35 | 17 | 9 | 87 |
| 114667 | 44 | 2.62 | 62 | 5 | 30 | 43 | 5 | 85 |
| 114668 | 258 | 1.91 | 83 | 1 | 65 | 16 | 58 | 128 |
| 114669 | 44 | 1.4 | 60 | 3 | 55 | 24 | 10 | 58 |
| 114670 | 46 | 5 | 134 | 8 | 120 | 23 | 340 | 1060 |
| 114671 | 80 | 0.97 | 67 | 1 | 60 | 20 | 12 | 73 |
| 114672 | 108 | 1.42 | 50 | 4 | 70 | 27 | 8 | 151 |
| 114673 | 1070 | 1.4 | 25 | 4 | 60 | 28 | 11 | 81 |
| 114674 | 50 | 3.01 | 62 | 6 | 75 | 52 | 95 | 235 |

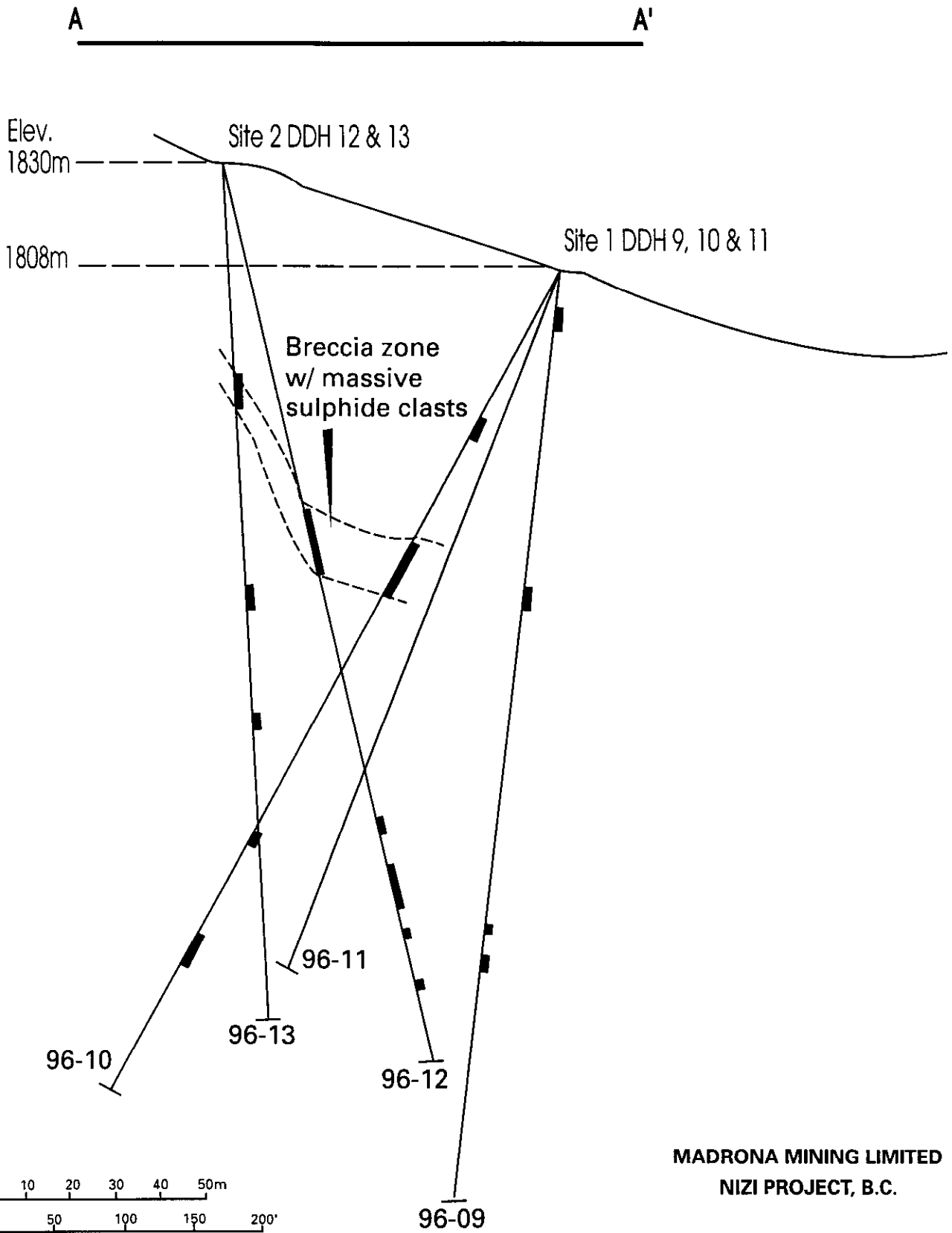
53'
58' 5' of Zn .175%
Pb .1%

438'
443' 5' of Au 1.07 g/t



MADRONA MINING LIMITED
NIZI PROJECT, B.C.
CROSS SECTION
 DDH NZ96-14 AZ 030° @-60°

Figure 11



MADRONA MINING LIMITED
 NIZI PROJECT, B.C.

Cross Section A-A'
 Figure 12

B

B'

Elev.
1830m

Site 2 DDH 12 & 13

1808m Site 1 DDH 9, 10 & 11

Breccia zone
w/ massive
sulphide clasts

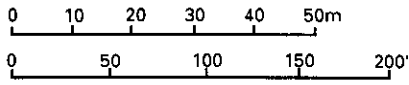
96-11

96-13

96-9

96-12

96-10



MADRONA MINING LIMITED
NIZI PROJECT, B.C.

Cross Section B-B'
Figure 13

CONCLUSIONS & RECOMMENDATIONS

Significant mineralization was encountered in each of the holes drilled. The sections intersected in holes 10, 12, and 13 between 168'-198', 213'-248', and 123'-143' respectively are strong and continuous, open at depth and to the northwest. The mineralization encountered outside this zone appears to be discontinuous. It is fracture and fissure vein hosted and widespread.

It is recommended that the continuous zone be further drill tested at depth. Due to the steep slope from which drilling would be undertaken to accomplish this, significant drill pad preparation would be required. An initial site can be prepared some 50 metres in elevation below the ridge crest from a point halfway between sites 1 and 2. A hole drilled from this point at an azimuth of 220° and a dip of -45° should encounter this zone some 60 metres vertically below where it was intersected in the current program and at a hole length of approximately 110 metres. Testing the continuation of the zone to the northwest should be contemplated by establishing another drill site 100 metres in that direction at the same elevation and having the same orientation as the hole recommended above. The drill pads should be established well in advance of any drill program considered.

In conjunction with the foregoing, further geological mapping of the claim area is also recommended.

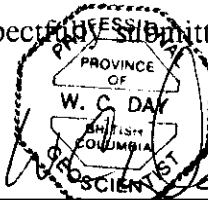
CERTIFICATE

I, William C. Day, of residence in the City of North Vancouver, British Columbia, do hereby certify that:

1. I am a consulting Geologist, having graduated from the University of British Columbia, B.Sc. Geology, 1976.
2. I am a member of the Association of Professional Engineers and Geoscientists of British Columbia with the designation of Professional Geoscientist.
3. I have no interest in the NIZI property or in Madrona Mining Limited nor do I expect to receive any.
4. I was a member of the field crew conducting the program of subject in this report.

Dated in North Vancouver, British Columbia, this 16th day of November, 1996.

Respectfully submitted,



William C. Day, B.Sc., P. Geo.

APPENDIX I

Drill Logs

Project: Nizi
Site: 1

Northing: 15+40N
Westing: 6+75W
Elevation: 1808 m

Azimuth: 270°
Dip Angle: -60°
Depth: 438'

Started: Sep. 12/96
Finished: Sep. 14/96
Logged by: Wm. C. Day

Hole: NZ 96-11
Page: 1 of 2

| From | To | Description | Sample No. | From | To | Au ppb | Ag ppm | As ppm | Sb ppm | Hg ppb | Cu ppm | Pb ppm | Zn ppm |
|------|-----|--|------------|------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 5 | Casing | | | | | | | | | | | |
| 5 | 17 | Dacitic tuff breccia, mottled, red (jasparoidal), green, brown (limonitic), slightly broken to broken, 4cm gouge @ 7', 5cm gouge @ 8', 2cm gouge @ 8.75'; moderate quartz/carbonate veining, minor limonitic fracturing, minor disseminated pyrite | 114543 | 5 | 10 | 4 | 0.47 | 49 | 3 | 50 | 29 | 4 | 950 |
| | | | 114544 | 10 | 15 | 14 | 0.54 | 78 | 3 | 55 | 16 | 2 | 239 |
| 17 | 21 | Bleached, limonitic altered, dacitic tuff breccia, broken with limonitic parting surfaces and fractures | 114545 | 15 | 20 | 80 | 3.52 | 202 | 3 | 75 | 12 | 49 | 1460 |
| 21 | 69 | Dominantly grey/green dacitic tuff breccia, minor jasparoidal zones, slightly broken with limonitic/hematitic parting surfaces, limonitic fractures, minor fracture and disseminated pyrite, very minor quartz/carbonate veining, minor jasparoid 67-69, minor black vitreous mineral healed fractures | 114546 | 20 | 25 | 22 | 1.18 | 101 | 3 | 20 | 6 | 8 | 920 |
| | | | 114547 | 65 | 70 | 12 | 0.81 | 24 | 1 | 40 | 33 | 2 | 260 |
| 69 | 72 | Dominantly jasparoidal dacitic tuff, very slightly broken, minor disseminated pyrite | 114548 | 70 | 75 | 40 | 3.43 | 38 | 1 | 50 | 25 | 2 | 95 |
| 72 | 81 | Green crystal dacitic tuff, slightly broken, minor limonitic parting surfaces, very minor fracture vugs. | 114549 | 75 | 80 | 22 | 1.11 | 47 | 1 | 35 | 33 | 1 | 341 |
| 81 | 87 | Mottled jasparoidal and green dacitic tuff breccia, slightly broken, minor quartz/carbonate veining, minor limonitic healed fractures | 114550 | 80 | 85 | 4 | 0.48 | 28 | 2 | 130 | 18 | 1 | 161 |
| 87 | 99 | Dominantly green dacitic tuff, minor limonitic parting surfaces and healed fractures, minor quartz veinlets | 114551 | 85 | 90 | 6 | 0.32 | 10 | 1 | 215 | 53 | 1 | 405 |
| | | | 114552 | 90 | 95 | 10 | 0.66 | 11 | 1 | 30 | 57 | 1 | 830 |
| | | | 114553 | 95 | 100 | 6 | 1.25 | 49 | 1 | 30 | 53 | 2 | 630 |
| 99 | 109 | Jasparoidal/green dacitic tuff breccia, slightly broken, minor quartz/carbonate healed fractures, minor sulphide healed veinlets and stringers | 114554 | 100 | 105 | 8 | 1.06 | 57 | 1 | 30 | 43 | 2 | 66 |
| | | | 114555 | 105 | 110 | 18 | 1.09 | 110 | 1 | 20 | 15 | 4 | 86 |

APPENDIX I

Drill Logs

Project: Nizi
Site: 1

Northing: 15+40N
Westing: 6+75W
Elevation: 1808 m

Azimuth: 033°
Dip Angle: -60°
Depth: -548'

Started: Sep 08/96
Finished: Sep 10/96
Logged by: Wm.C.Day

Hole: NZ 96-09
Page 3 of 5

| From | To | Description | Sample No. | From | To | Au ppb | Ag ppm | As ppm | Sb ppm | Hg ppb | Cu ppm | Pb ppm | Zn ppm |
|-------|-------|--|------------|------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| 233 | 257.5 | Moderately to strongly bleached dacite tuff variably brecciated, broken with parting surfaces dominantly limonite (minor hematite) often vuggy, intense fracturing healed with limonite with envelopes to 2mm, minor quartz/carbonate. | 114416 | 243 | 248 | 252 | 11.50 | 208 | 9 | 360 | 14 | 39 | 1070 |
| | | | 114417 | 248 | 253 | 192 | 4.10 | 144 | 8 | 0 | 8 | 27 | 400 |
| | | | 114418 | 253 | 258 | 168 | 7.40 | 78 | 3 | 240 | 17 | 20 | 140 |
| 257.5 | 319 | Grey dacite tuff breccia, slightly broken, moderately to intensely fractured with fractures healed by sulphides (dominantly pyrite, minor sphalerite, very minor chalcopyrite and galena) &/or vitreous black mineral, pyrite dominantly fractured controlled but also in breccia matrix and disseminated, minor limonite on parting surfaces. Sulphides 3-5% and locally to 10%. | 114419 | 258 | 263 | 128 | 4.80 | 47 | 3 | 225 | 10 | 15 | 135 |
| | | | 114420 | 263 | 268 | 136 | 4.00 | 33 | 2 | 155 | 8 | 17 | 68 |
| | | | 114421 | 268 | 273 | 78 | 5.50 | 50 | 1 | 235 | 9 | 17 | 34 |
| | | | 114422 | 273 | 278 | 440 | 19.10 | 59 | 5 | 425 | 26 | 79 | 207 |
| | | | 114423 | 278 | 283 | 262 | 6.50 | 109 | 4 | 525 | 14 | 23 | 156 |
| | | | 114424 | 283 | 288 | 340 | 14.20 | 187 | 22 | 700 | 38 | 54 | 135 |
| | | | 114425 | 288 | 293 | 158 | 8.70 | 117 | 9 | 250 | 14 | 35 | 145 |
| | | | 114426 | 293 | 298 | 234 | 11.70 | 206 | 11 | 285 | 31 | 71 | 400 |
| | | | 114427 | 298 | 303 | 692 | 10.00 | 38 | 13 | 350 | 41 | 108 | 302 |
| | | | 114428 | 303 | 308 | 20 | 2.15 | 15 | 3 | 40 | 11 | 81 | 201 |
| 319 | 328 | Grey dacite tuff breccia, slightly broken with hematite/limonite parting surfaces, minor sphalerite, chalcopyrite, 3-5% pyrite disseminated and fracture healing. | 114429 | 308 | 313 | 160 | 4.70 | 65 | 4 | 70 | 18 | 71 | 1060 |
| | | | 114430 | 313 | 318 | 58 | 4.30 | 72 | 6 | 975 | 13 | 66 | 470 |
| | | | 114431 | 318 | 323 | 16 | 2.21 | 53 | 7 | 35 | 23 | 108 | 353 |
| 328 | 363 | Grey dacite tuff breccia, slightly broken, intense fracturing healed with sulphides and black vitreous mineral, slightly bleached 356-360', minor quartz carbonate veinlets, pyrite, minor sphalerite, chalcopyrite, 336.5'- microfractures sphalerite and galena, 342'- microfractures- sphalerite and galena, 347'-350' galena, sphalerite fractures, 353' arsenopyrite and bright green arsenocarbonate coatings. | 114432 | 323 | 328 | 32 | 1.37 | 69 | 8 | 50 | 48 | 98 | 292 |
| | | | 114433 | 328 | 333 | 30 | 2.20 | 21 | 3 | 55 | 15 | 30 | 217 |
| | | | 114434 | 333 | 338 | 28 | 10.00 | 28 | 10 | 70 | 14 | 780 | 560 |
| 363 | 365.5 | Limonic fault rubble/gouge | 114435 | 338 | 343 | 36 | 2.47 | 36 | 2 | 55 | 14 | 42 | 342 |
| | | | 114436 | 343 | 348 | 158 | 11.60 | 150 | 7 | 225 | 33 | 510 | 470 |
| | | | 114437 | 348 | 353 | 1460 | 45.00 | 182 | 57 | 385 | 460 | 790 | 1690 |
| | | | 114438 | 353 | 358 | 46 | 4.10 | 45 | 1 | 70 | 15 | 23 | 149 |
| | | | 114439 | 358 | 363 | 48 | 5.40 | 76 | 8 | 115 | 30 | 154 | 400 |
| 363 | 365.5 | Limonic fault rubble/gouge | 114440 | 363 | 368 | 160 | 3.87 | 104 | 11 | 35 | 69 | 44 | 910 |

Project: Nizi
Site: 1

Northing: 15+40N
Westing: 6+75W
Elevation: 1808 m

Azimuth: 033°
Dip Angle: -60°
Depth: -548'

Started: Sep.08/96
Finished: Sep.10/96
Logged by: Wm.C.Day

Hole: NZ 96-09
Page 4 of 5

| From | To | Description | Sample No. | From | To | Au ppb | Ag ppm | As ppm | Sb ppm | Hg ppb | Cu ppm | Pb ppm | Zn ppm |
|-------|-----|--|------------|------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| 365.5 | 378 | Dacitic tuff breccia, slightly broken, intensely fractured and healed with sulphides and black vitreous mineral, minor quartz carbonate veining, pyrite, minor sphalerite, very minor chalcopyrite, bleached sections to 368.5, sphalerite stringers 369, 373-374. | 114441 | 368 | 373 | 524 | 5.40 | 66 | 6 | 65 | 162 | 250 | 990 |
| | | | 114442 | 373 | 378 | 404 | 4.40 | 45 | 1 | 60 | 47 | 108 | 331 |
| 378 | 387 | Quartz/dacite tuff breccia, intensely fractured, slightly broken, fractures healed with quartz carbonate, vitreous black mineral and sulphides (pyrite) tuff fragments green from 377-379. Small eyes of jasperoidal quartz associated with black quartz. | 114443 | 378 | 383 | 13400 | 273.20 | 54 | 33 | 2825 | 370 | 970 | 2610 |
| | | | 114444 | 383 | 388 | 12200 | 50.50 | 244 | 9 | 2550 | 320 | 1080 | 3090 |
| 387 | 406 | Silicified dacite tuff, very slightly broken, slightly fractured with fractures healed by sulphides and black vitreous mineral. | 114445 | 388 | 393 | 206 | 1.37 | 47 | 1 | 80 | 24 | 9 | 121 |
| | | | 114446 | 393 | 398 | 72 | 2.99 | 92 | 1 | 75 | 21 | 41 | 116 |
| | | | 114447 | 398 | 403 | 122 | 2.14 | 119 | 1 | 105 | 27 | 58 | 251 |
| 406 | 410 | Strongly silicified dacite tuff, very slightly broken, slightly fractured with fractures healed by pyrite. | 114448 | 403 | 408 | 100 | 2.17 | 52 | 1 | 65 | 47 | 39 | 115 |
| 410 | 438 | Dacite tuff breccia, variably silicified, slightly broken, slightly fractured - 3-5% sulphides dominantly pyrite as fracture filling and disseminations. | 114449 | 408 | 413 | 66 | 2.06 | 88 | 1 | 55 | 26 | 116 | 360 |
| | | | 114450 | 413 | 418 | 58 | 1.66 | 175 | 1 | 215 | 40 | 27 | 102 |
| | | | 114451 | 418 | 423 | 48 | 1.58 | 85 | 1 | 35 | 30 | 41 | 133 |
| | | | 114452 | 423 | 428 | 46 | 1.21 | 89 | 1 | 50 | 33 | 44 | 203 |
| | | | 114453 | 428 | 433 | 84 | 5.70 | 1660 | 42 | 875 | 55 | 49 | 186 |
| | | | 114454 | 433 | 438 | 12 | 1.14 | 243 | 1 | 335 | 37 | 41 | 259 |
| 438 | 511 | Dacite tuff breccia, variably silicified, slightly broken, slightly fractured - 5-10% sulphides dominantly pyrite as fracture filling, breccia matrix and disseminations | 114455 | 438 | 443 | 16 | 1.03 | 150 | 1 | 200 | 21 | 39 | 68 |
| | | | 114456 | 443 | 448 | 14 | 0.73 | 158 | 1 | 115 | 22 | 15 | 71 |
| | | | 114457 | 448 | 453 | 12 | 0.80 | 168 | 1 | 135 | 23 | 15 | 59 |
| | | | 114458 | 453 | 458 | 16 | 0.96 | 270 | 3 | 145 | 24 | 28 | 56 |
| | | | 114459 | 458 | 463 | 4 | 0.76 | 181 | 2 | 120 | 18 | 19 | 51 |
| | | | 114460 | 463 | 468 | 20 | 1.02 | 63 | 1 | 105 | 20 | 34 | 211 |
| | | | 114461 | 468 | 473 | 16 | 1.31 | 144 | 2 | 85 | 34 | 56 | 135 |
| | | | 114462 | 473 | 478 | 18 | 2.05 | 115 | 1 | 110 | 104 | 41 | 213 |

Project: Nizi
Site: 1

Northing: 15+40N
Westing: 6+75W
Elevation: 1808 m

Azimuth: 342°
Dip Angle: -60°
Depth: 548'

Started: Sep. 10/96
Finished: Sep. 11/96
Logged by: Wm.C.Day

Hole: NZ 96-10
Page: 2 of 4

| From | To | Description | Sample No. | From | To | Au ppb | Ag ppm | As ppm | Sb ppm | Hg ppb | Cu ppm | Pb ppm | Zn ppm |
|-------|-------|--|------------|------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| 113 | 115 | Dominantly limonitic gouge | 114482 | 113 | 118 | 328 | 84.10 | 270 | 34 | 310 | 15 | 6000 | 640 |
| 115 | 116 | Dacitic tuff, intensely broken, intensely fractured, limonitic altered, with fractures healed with limonite | | | | | | | | | | | |
| 116 | 121 | Dominantly quartz with dacitic tuff breccia, moderately broken, moderately fractured with fractures healed with limonite &/or vitreous black mineral, 7cm quartz vein @ 120-120.5 (70° coreΔ) | 114483 | 118 | 123 | 180 | 58.60 | 173 | 14 | 180 | 35 | 2100 | 1380 |
| 121 | 122 | Dominantly limonitic gouge | | | | | | | | | | | |
| 122 | 146.5 | Dacitic tuff, moderately broken, moderately limonitic altered, moderately fractured with fractures healed by limonite and minor hematite, dominant fractures sub parallel to coreΔ | 114484 | 123 | 128 | 32 | 3.60 | 167 | 8 | 40 | 27 | 260 | 3290 |
| | | | 114485 | 128 | 133 | 36 | 1.55 | 154 | 2 | 30 | 16 | 14 | 2710 |
| | | | 114486 | 133 | 138 | 160 | 3.85 | 192 | 3 | 30 | 39 | 38 | 2370 |
| | | | 114487 | 138 | 143 | 82 | 2.43 | 212 | 2 | 25 | 34 | 16 | 3100 |
| 146.5 | 152 | Dacitic tuff, broken, minor hematite alteration parting surfaces dominantly hematitic, slight fracturing healed with limonite and minor black vitreous mineral. | 114488 | 143 | 148 | 26 | 1.16 | 114 | 1 | 15 | 9 | 5 | 1730 |
| | | | 114489 | 148 | 153 | 28 | 1.47 | 147 | 1 | 80 | 22 | 4 | 3270 |
| 152 | 164 | Dacitic tuff, moderately broken, moderately limonitic altered, moderate fracturing with fractures healed by limonite and minor hematite | 114490 | 153 | 158 | 58 | 1.64 | 236 | 5 | 25 | 15 | 10 | 3400 |
| | | | 114491 | 158 | 163 | 98 | 2.72 | 570 | 9 | 45 | 40 | 21 | 3190 |
| 164 | 175.5 | Dacitic tuff breccia, intensely limonitic altered, moderately broken to 172.5, intensely broken 172.5-175, matte black (carbon?) fractures and breccia matrix from mm widths to a few cm beginning @ about 167; 175-175.5 massive matte black mineral with limonite and vuggy, vugs present throughout section in breccia matrix and along fractures | 114492 | 163 | 168 | 124 | 8.20 | 1300 | 67 | 135 | 46 | 520 | 5900 |
| | | | 114493 | 168 | 173 | 36 | 6.70 | 2900 | 177 | 200 | 40 | 370 | 40000 |

Project: Nizi
Site: 1

Northing: 15+40N
Westing: 6+75W
Elevation: 1808 m

Azimuth: 342°
Dip Angle: -60°
Depth: 548'

Started: Sep.10/96
Finished: Sep.11/96
Logged by: Wm.C Day

Hole: NZ 96-10
Page: 3 of 4

| From | To | Description | Sample No. | From | To | Au ppb | Ag ppm | As ppm | Sb ppm | Hg ppb | Cu ppm | Pb ppm | Zn ppm |
|-------|-------|---|------------|------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| 175.5 | 214 | Carbonate/dacite tuff breccia with carbonate comprising majority of volume (ie. 50-90% over 10's of cm) breccia section from 194-208 contains 50% carbonate, 45% grey dacite tuff frags and 5% massive to bedded sulphides (dominantly sphalerite) fragments up to 2cm thick and 4cm long. Moderately broken with surfaces limonitic or hematitic, matte black mineral (carbon?) common 175.5-179', 181-189' and 2cm @ 194' | 114494 | 173 | 178 | 20 | 9.00 | 3100 | 410 | 115 | 48 | 430 | 30200 |
| | | | 114495 | 178 | 183 | 12 | 1.56 | 148 | 23 | 35 | 9 | 59 | 4600 |
| | | | 114496 | 183 | 188 | 486 | 490.40 | 2250 | 2600 | 1425 | 670 | 8400 | 28200 |
| | | | 114497 | 188 | 193 | 300 | 59.60 | 1470 | 490 | 1000 | 510 | 1940 | 28400 |
| | | | 114498 | 193 | 198 | 176 | 11.00 | 1630 | 142 | 295 | 86 | 290 | 11900 |
| | | | 114499 | 198 | 203 | 90 | 16.00 | 1140 | 98 | 330 | 31 | 470 | 8500 |
| | | | 114500 | 203 | 208 | 32 | 4.00 | 280 | 36 | 180 | 12 | 134 | 4600 |
| | | | 114501 | 208 | 213 | 40 | 6.10 | 209 | 18 | 290 | 19 | 390 | 7400 |
| 214 | 219.5 | Dacitic tuff, intensely broken, dominantly limonitic altered, approaching gouge | 114502 | 213 | 218 | 68 | 6.20 | 290 | 51 | 130 | 19 | 440 | 4300 |
| 219.5 | 224 | Grey dacitic tuff, moderately fractured with fractures healed with hematite &/or black vitreous mineral, limonite envelopes on fractures to .75cm | 114503 | 218 | 223 | 24 | 3.09 | 255 | 63 | 40 | 16 | 290 | 1920 |
| | | | 114504 | 223 | 228 | 450 | 3.34 | 145 | 67 | 65 | 24 | 108 | 1290 |
| 224 | 268 | Grey dacitic tuff, variably brecciated, broken to moderately broken surfaces limonitic trace to 3% sulphides | 114505 | 258 | 260 | 428 | 5.5 | 79 | 22 | 90 | 159 | 93 | 370 |
| 268 | 298.5 | Grey dacitic tuff, variably brecciated, broken with surfaces hematitic &/or limonitic, trace to 3% sulphides | 114506 | 293 | 298 | 22 | 2.80 | 29 | 10 | 50 | 10 | 19 | 284 |
| 298.5 | 318 | Grey dacitic tuff, variably brecciated, moderately broken, minor clay &/or limonite parting surfaces, 1cm quartz vein @ 309' @ 30° coreΔ | 114507 | 298 | 303 | 10 | 2.60 | 18 | 4 | 40 | 8 | 21 | 131 |
| | | | 114508 | 303 | 308 | 16 | 2.15 | 15 | 5 | 30 | 12 | 16 | 77 |
| | | | 114509 | 308 | 313 | 36 | 1.48 | 42 | 3 | 210 | 9 | 16 | 162 |
| | | | 114510 | 313 | 318 | 18 | 0.77 | 25 | 2 | 40 | 9 | 14 | 245 |
| 318 | 356 | Grey dacitic tuff breccia, minor quartz carbonate veining, (barite?), stringers, blebs and disseminated sulphides to 5% | 114511 | 318 | 323 | 32 | 1.65 | 70 | 2 | 80 | 10 | 27 | 165 |
| | | | 114512 | 323 | 328 | 8 | 1.95 | 59 | 2 | 125 | 9 | 39 | 133 |
| | | | 114513 | 328 | 333 | 4 | 1.33 | 33 | 2 | 75 | 8 | 27 | 174 |
| | | | 114514 | 333 | 338 | 4 | 1.30 | 16 | 2 | 35 | 7 | 19 | 167 |
| | | | 114515 | 338 | 343 | 14 | 1.39 | 15 | 3 | 40 | 7 | 20 | 284 |
| | | | 114516 | 343 | 348 | 14 | 1.78 | 17 | 2 | 50 | 19 | 31 | 187 |

Project: Nizi
Site: 2

Northing: 15+53N
Westing: 6+95W
Elevation: 1828 m

Azimuth: 083°
Dip Angle: -70°
Depth: 542'

Started: Sep. 14/96
Finished: Sep. 16/96
Logged by: Wm. C. Day

Hole: NZ 96-12
Page: 1 of 4

| From | To | Description | Sample No. | From | To | Au ppb | Ag ppm | As ppm | Sb ppm | Hg ppb | Cu ppm | Pb ppm | Zn ppm |
|-------|-------|--|----------------------------|-------------------|-------------------|--------------------|-----------------------------|----------------------|----------------------|---------------------|-------------------|-------------------------|-------------------------|
| 0 | 5 | Casing | | | | | | | | | | | |
| 5 | 25.5 | Green to maroon, dacitic tuff, broken, minor limonitic parting surfaces, minor jasperoidal intervals | | | | | | | | | | | |
| 25.5 | 28.5 | Green dacitic tuff, moderately broken, minor quartz | | | | | | | | | | | |
| 28.5 | 37.5 | Dominantly green dacitic breccia, slightly broken, 5% jasperoidal clasts, quartz/carbonate veining 37-37.5, minor disseminated pyrite | | | | | | | | | | | |
| 37.5 | 68 | Maroon, green to green/brown dacitic tuff breccia, 50% jasperoidal, minor quartz/carbonate veining, broken | 114563 114564 | 38 43 | 43 48 | 4 6 | 1.33 0.87 | 26 46 | 2 5 | 75 40 | 93 14 | 3 8 | 128 140 |
| 68 | 167 | Dominantly grey/green dacitic tuff variably brecciated, with maroon sections approaching jasperoid, moderately broken, moderate quartz carbonate shear @ 153', minor disseminated pyrite, limonitic altered sections | | | | | | | | | | | |
| 167 | 203 | Grey dacite tuff, slightly broken, minor limonitic parting surfaces, numerous fine quartz/carbonate fractures and moderate black vitreous mineral healed fractures, very minor disseminated pyrite | | | | | | | | | | | |
| 203 | 212 | Dacitic tuff, dominantly limonitic altered with hematitic parting surfaces | | | | | | | | | | | |
| 212 | 214.5 | Limonitic altered, carbonate/dacite gouge, lead/zinc blebs and fractures, arsenopyrite, pyrite | 114565 | 208 | 213 | 14 | 3.40 | 300 | 55 | 65 | 27 | 260 | 6100 |
| 214.5 | 226 | Dacitic tuff breccia, intensely broken with silicified sections, abundant carbonate, limonite/hematite shear (5cm) @ 217' @ 30° core Δ, 225-226 massive sphalerite/galena | 114566 114567 114568 | 213 218 223 | 218 223 228 | 308 942 2580 | 141.70 484.00 1800.00 | 1390 4500 5000 | 670 3000 11800 | 775 1450 2450 | 134 380 540 | 13300 11200 78000 | 29700 22600 25800 |

Project: Nizi
Site: 2

Northing: 15+53N
Westing: 6+95W
Elevation: 1828 m

Azimuth: 083°
Dip Angle: -70°
Depth: 542'

Started: Sep 14/96
Finished: Sep 16/96
Logged by: Wm.C.Day

Hole: NZ 96-12
Page: 2 of 4

| From | To | Description | Sample No. | From | To | Au ppb | Ag ppm | As ppm | Sb ppm | Hb ppb | Cu ppm | Pb ppm | Zn ppm |
|------|-----|--|----------------------------|-------------------|-------------------|----------------|----------------------|------------------|----------------|----------------|----------------|----------------|---------------------|
| 226 | 230 | Carbonate/dacite breccia, moderately to intensely broken, parting surfaces dominantly hematized, sphalerite/galena fractures and breccia surfaces | 114569 | 228 | 233 | 40 | 6.80 | 7300 | 240 | 220 | 44 | 360 | 5000 |
| 230 | 234 | Intensely broken, limonitic altered | | | | | | | | | | | |
| 234 | 247 | Dacite tuff breccia, moderately broken with limonitic parting surfaces, moderately fractured and healed with black vitreous mineral. 247' 4cm gouge | 114570 114571 114572 | 233 238 243 | 238 243 248 | 30 18 40 | 4.40 1.98 3.60 | 380 57 400 | 92 14 84 | 85 60 65 | 39 12 32 | 97 24 54 | 2300 860 3370 |
| 247 | 249 | Limonitic altered dacitic tuff, intensely broken | | | | | | | | | | | |
| 249 | 267 | Light grey dacitic tuff, strongly broken, limonitic/hematitic parting surfaces, strongly fractured and healed with black vitreous mineral and lesser limonite | | | | | | | | | | | |
| 267 | 271 | Light grey, slightly bleached dacitic tuff breccia, intensely fractured (dominantly 45°/coreΔ) and healed with black vitreous mineral | | | | | | | | | | | |
| 271 | 287 | Grey dacitic tuff breccia, slightly broken with minor limonitic parting surfaces, moderate fracturing healed with black vitreous mineral, minor blebs, fracture and disseminated pyrite | | | | | | | | | | | |
| 282 | 288 | Dacitic tuff breccia, strongly broken with black vitreous mineral healed fractures and limonitic parting surfaces | | | | | | | | | | | |
| 288 | 312 | Dark grey dacite tuff breccia, dominantly slightly broken, slight to moderate fracturing healed by black vitreous mineral minor quartz carbonate veining, trace-3% sulphides, minor chalcopyrite | | | | | | | | | | | |
| 312 | 314 | Grey dacite tuff, silicified, minor disseminated pyrite, at 312' 3 cm carbonate/dacite breccia | 114573 | 312 | 317 | 132 | 5.50 | 96 | 7 | 185 | 21 | 31 | 123 |

Project: Nizi
Site: 2

Northing: 15+53N
Westing: 6+95W
Elevation: 1828 m

Azimuth: 083°
Dip Angle: -70°
Depth: 542'

Started: Sep.14/96
Finished: Sep.16/96
Logged by: Wm C.Day

Hole: NZ 96-12
Page: 3 of 4

| From | To | Description | Sample No. | From | To | Au ppb | Ag ppm | As ppm | Sb ppm | Hg ppb | Cu ppm | Pb ppm | Zn ppm |
|------|-----|--|------------|------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| 314 | 357 | Grey dacite tuff breccia, broken with limonitic parting surfaces, trace to 3% pyrite as fracture filling and disseminations | 114574 | 317 | 322 | 56 | 5.90 | 36 | 2 | 150 | 11 | 19 | 61 |
| | | | 114575 | 322 | 327 | 52 | 4.10 | 28 | 1 | 100 | 8 | 16 | 42 |
| | | | 114576 | 327 | 333 | 62 | 5.00 | 32 | 2 | 140 | 9 | 19 | 31 |
| | | | 114577 | 333 | 338 | 58 | 4.00 | 49 | 1 | 115 | 9 | 21 | 41 |
| | | | 114578 | 338 | 343 | 40 | 2.49 | 63 | 2 | 150 | 11 | 24 | 149 |
| | | | 114579 | 343 | 348 | 12 | 1.49 | 33 | 4 | 80 | 7 | 18 | 182 |
| | | | 114580 | 348 | 353 | 14 | 1.64 | 21 | 5 | 60 | 7 | 16 | 160 |
| | | | 114581 | 353 | 358 | 14 | 1.86 | 34 | 5 | 100 | 7 | 14 | 450 |
| 357 | 376 | Slightly broken dacitic tuff, trace-3% pyrite, minor chalcopyrite | 114582 | 358 | 363 | 30 | 1.89 | 22 | 5 | 80 | 8 | 14 | 220 |
| | | | 114583 | 363 | 368 | 410 | 3.48 | 111 | 4 | 310 | 16 | 42 | 163 |
| | | | 114584 | 368 | 373 | 716 | 7.50 | 175 | 4 | 450 | 19 | 47 | 196 |
| | | | 114585 | 373 | 378 | 140 | 7.50 | 160 | 3 | 775 | 16 | 33 | 205 |
| 376 | 378 | Intensely broken dacitic tuff with limonitic parting surfaces, up to 10% sulphides as fracture filling, breccia matrix filling, blebs, veinlets and disseminations, chalcopyrite trace to 1% | 114586 | 378 | 383 | 150 | 4.10 | 47 | 2 | 290 | 15 | 36 | 144 |
| 378 | 396 | Broken dacitic tuff breccia, 5% sulphides as fracture fillings, veinlets and disseminations, minor chalcopyrite, sphalerite, arsenopyrite, pyrite | 114587 | 383 | 388 | 1112 | 68.20 | 87 | 74 | 3750 | 1070 | 2700 | 3830 |
| | | | 114588 | 388 | 393 | 1740 | 26.20 | 69 | 26 | 3375 | 510 | 3300 | 7500 |
| | | | 114589 | 393 | 398 | 42 | 0.94 | 12 | 4 | 60 | 10 | 31 | 165 |
| 396 | 400 | Intensely fractured breccia healed with quartz, black vitreous mineral up to 20% sulphides with pyrite, arsenopyrite, minor chalcopyrite | 114590 | 398 | 403 | 1740 | 17.80 | 49 | 44 | 450 | 290 | 530 | 1150 |
| 400 | 453 | Grey dacitic tuff breccia, slightly broken, slightly to moderately fractured with fractures healed dominantly with black vitreous mineral, 5-10% sulphides dominantly pyrite with minor chalcopyrite as stringers, blebs, breccia matrix and disseminations. | 114591 | 403 | 408 | 118 | 2.26 | 35 | 7 | 45 | 19 | 67 | 165 |
| | | | 114592 | 408 | 413 | 1340 | 13.20 | 63 | 20 | 165 | 76 | 123 | 210 |
| | | | 114593 | 413 | 418 | 3880 | 40.00 | 77 | 34 | 750 | 350 | 540 | 1690 |
| | | | 114594 | 418 | 423 | 1990 | 8.30 | 39 | 14 | 255 | 50 | 192 | 570 |
| | | | 114595 | 423 | 428 | 2460 | 50.00 | 38 | 35 | 380 | 120 | 290 | 790 |
| | | | 114596 | 428 | 433 | 1218 | 5.80 | 35 | 19 | 275 | 87 | 260 | 570 |
| | | | 114597 | 433 | 438 | 850 | 6.90 | 41 | 18 | 165 | 77 | 260 | 630 |

Project: Nizi
Site: 2

Northing: 15+53N
Westing: 6+95W
Elevation: 1828 m

Azimuth: 047°
Dip Angle: -60°
Depth: -498'

Started: Sep.16/96
Finished: Sep.17/96
Logged by: Wm. C. Day

Hole: NZ 96-13
Page: 1 of 3

| From | To | Description | Sample No. | From | To | Au ppb | Ag ppm | As ppm | Sb ppm | Hg ppb | Cu ppm | Pb ppm | Zn ppm |
|------|-------|---|------------------|------------|------------|-----------|--------------|------------|---------|----------|----------|-----------|--------------|
| 0 | 4 | Casing | | | | | | | | | | | |
| 4 | 9 | Dominantly green dacitic tuff, moderately broken, minor maroon sections, limonitic parting surfaces. | | | | | | | | | | | |
| 9 | 42 | Dominantly maroon (jasparoidal) dacitic tuff breccia, minor quartz carbonate veining, moderately to strongly broken, limonitic parting surfaces from 9'-20' | | | | | | | | | | | |
| 42 | 50.5 | Dominantly green dacite tuff, minor maroon sections, broken, minor quartz carbonate veining, minor disseminated pyrite, barite | 114613 | 48 | 53 | 36 | 1.90 | 49 | 1 | 55 | 18 | 15 | 1100 |
| 50.5 | 57 | Strongly broken quartz/dacite tuff breccia, dacite, limonitic altered, barite | 114614 | 53 | 58 | 170 | 8.20 | 103 | 8 | 55 | 88 | 230 | 940 |
| 57 | 81.5 | Dominantly green with minor maroon dacite tuff breccia, minor quartz/carbonate breccia matrix and warped veinlets | | | | | | | | | | | |
| 81.5 | 85.5 | Strongly broken limonitic altered dacitic tuff | 114615 | 81 | 86 | 64 | 3.68 | 126 | 3 | 145 | 26 | 1550 | 3360 |
| 85.5 | 101 | Dominantly green with minor maroon dacite tuff breccia, slightly broken, minor disseminated pyrite | | | | | | | | | | | |
| 101 | 120 | Dominantly limonitic altered dacite tuff breccia (minor green), broken, fabric @ 40° core Δ | 114616 | 113 | 118 | 32 | 9.30 | 166 | 1 | 30 | 26 | 510 | 1670 |
| 120 | 126 | Limonitic altered dacite tuff breccia, strongly broken, vuggy, 124-126 dark brown/ hematitic altered dacitic breccia with minor carbonate | 114617 114618 | 118 123 | 123 128 | 386 30 | 2.35 3.67 | 154 119 | 1 12 | 85 25 | 25 17 | 790 19 | 2830 2630 |
| 126 | 128 | Quartz/carbonate breccia with limonite | 114619 | | | 32 | 6.40 | 350 | 41 | 115 | 42 | 990 | 13200 |
| 128 | 133 | Dark brown-orange hematitic/limonitic dacite tuff breccia, strongly to intensely (gouge) broken | 114620 | 128 | 133 | 8 | 1.74 | 16800 | 8300 | 3100 | 790 | 16400 | 22800 |
| 133 | 135.5 | Carbonate/dacite breccia, many breccia fragments exhibit strong sulphides (bedded and massive) sphalerite, pyrite, arsenopyrite (argentite??) | 114621 | 133 | 138 | 30 | 13.20 | 2080 | 1430 | 1075 | 145 | 3500 | 9300 |

Project: Nizi
Site: 2

Northing: 15+53N
Westing: 6+95W
Elevation: 1828 m

Azimuth: 047°
Dip Angle: -60°
Depth: -198'

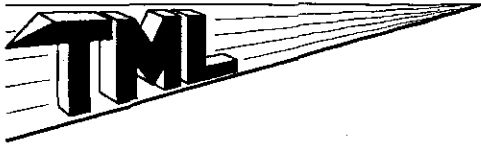
Started: Sep.16/96
Finished: Sep.17/96
Logged by: Wm.C.Day

Hole: NZ 96-13
Page: 2 of 3

| From | To | Description | Sample No. | From | To | Au ppb | Ag ppm | As ppm | Sb ppm | Hg ppb | Cu ppm | Pb ppm | Zn ppm |
|-------|-----|--|------------|------|-----|--------|---------|--------|--------|--------|--------|--------|--------|
| 135.5 | 143 | Limonic altered dacite tuff breccia (limonitic alteration decreasing to 143) intensely broken/gouge 135.5-140, less broken to 143, limonitic/hematitic parting surfaces, lead, zinc, pyrite, arsenopyrite | 114622 | 138 | 143 | 5500 | 1905.00 | 500 | 55 | 205 | 26 | 119 | 4800 |
| 143 | 173 | Dominantly green to grey/green dacite tuff, broken variably brecciated with limonitic parting surfaces, quartz breccia 152-152.5, 162-163, minor quartz/carbonate veinlets and fractures. Fractures dominantly @ 45° core Δ, limonitic fracture envelopes to 1 cm, minor fracturing healed with black vitreous mineral | | | | | | | | | | | |
| 173 | 180 | Light grey dacitic tuff, slightly broken, variably brecciated, minor bleaching 175.5-176, minor fractures healed with black vitreous mineral, minor limonitic fractures, minor fractured pyrite | | | | | | | | | | | |
| 180 | 208 | Dacitic tuff breccia, moderate to strongly broken, grey to variably limonitic altered, limonite/hematite fractures and parting surfaces, trace pyrite with few pyrite fractures, dominant fracture direction sub parallel to core Δ. | | | | | | | | | | | |
| 208 | 252 | Grey dacitic tuff breccia, very slightly broken with minor limonitic parting surfaces, very minor fracturing healed with quartz/carbonate, broken 214-215.5 with moderately limonitic alteration, trace-2% pyrite overall | | | | | | | | | | | |
| 252 | 303 | Variably mottled black and white, dark grey-light grey dacitic tuff breccia, slightly broken with minor limonitic parting surfaces, intensely fractured with fractures healed by black vitreous mineral; 3-5% pyrite-dominantly fracture and breccia matrix filling, minor quartz/carbonate except last 5' where it becomes moderate | 114623 | 253 | 258 | 330 | 286.00 | 173 | 9 | 200 | 22 | 17 | 500 |
| | | | 114624 | 258 | 263 | 18 | 60.10 | 139 | 10 | 210 | 26 | 32 | 145 |
| | | | 114625 | 263 | 268 | 140 | 2.79 | 107 | 7 | 110 | 41 | 20 | 48 |
| | | | 114626 | 268 | 273 | 32 | 1.68 | 80 | 2 | 85 | 8 | 16 | 25 |
| | | | 114627 | 273 | 278 | 60 | 3.26 | 96 | 3 | 140 | 16 | 29 | 84 |
| | | | 114628 | 278 | 283 | 204 | 4.10 | 76 | 1 | 345 | 20 | 21 | 85 |
| | | | 114629 | 283 | 288 | 64 | 2.08 | 59 | 2 | 95 | 12 | 16 | 55 |
| | | | 114630 | 288 | 293 | 110 | 5.00 | 215 | 15 | 900 | 99 | 32 | 99 |
| | | | 114631 | 293 | 298 | 48 | 1.73 | 107 | 2 | 190 | 13 | 15 | 122 |
| | | | 114632 | 298 | 303 | 32 | 1.38 | 79 | 2 | 150 | 8 | 11 | 78 |

APPENDIX II

Assay Results



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

**Orogrande
c/o Madrona Mining
1125, 333 - 11th Ave. S.W.
Calgary, AB. T2R 1L9**

Mike Marchand

Date: Oct. 21, 1996

Job No: 96-246

Project:

118 Drill Core

Signed: 

**14, 2235 30th Avenue N.E., Calgary, AB, T2E 7C7
Phone: (403)250-9460 Fax: (403)291-7064**



TERRAMIN RESEARCH LABS Ltd.

Job No: 96-246

Client: Orogrande
Project:

| Sample Number | Au ppb | Ag ppm | As ppm | Sb ppm | Hg ppb | Ba ppm | Cu ppm | Pb ppm | Zn ppm |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 114401 | 94 | 5.00 | 1850 | 18 | 75 | 5460 | 51 | 121 | 5400 |
| 114402 | 86 | 4.30 | 1760 | 50 | 45 | 2410 | 31 | 146 | 3710 |
| 114403 | 1840 | 233.1 | 20300 | 920 | 700 | 1070 | 460 | 6200 | 7300 |
| 114404 | 168 | 14.3 | 2810 | 48 | 65 | 7040 | 37 | 350 | 900 |
| 114405 | 50 | 2.79 | 1380 | 18 | 30 | 11400 | 78 | 107 | 980 |
| 114406 | 82 | 2.06 | 550 | 5 | 30 | 5840 | 93 | 22 | 3180 |
| 114407 | 56 | 2.29 | 410 | 3 | 35 | 5280 | 41 | 14 | 2950 |
| 114408 | 6 | 1.15 | 40 | 2 | 15 | 3050 | 8 | 8 | 590 |
| 114409 | 18 | 1.02 | 60 | 1 | 15 | 2770 | 7 | 17 | 960 |
| 114410 | 32 | 0.76 | 27 | 1 | 15 | 4090 | 11 | 8 | 480 |
| 114411 | 36 | 2.03 | 950 | 20 | 40 | 3100 | 10 | 105 | 2650 |
| 114412 | 12 | 0.96 | 212 | 6 | 25 | 3180 | 10 | 29 | 1830 |
| 114413 | 6 | 0.94 | 44 | 4 | 20 | 3170 | 7 | 8 | 2060 |
| 114414 | 22 | 1.43 | 95 | 4 | 25 | 3260 | 6 | 16 | 910 |
| 114415 | 6 | 1.35 | 84 | 3 | 30 | 3370 | 8 | 15 | 650 |
| 114416 | 252 | 11.5 | 208 | 9 | 360 | 5750 | 14 | 39 | 1070 |
| 114417 | 192 | 4.10 | 144 | 8 | 0 | 3290 | 8 | 27 | 400 |
| 114418 | 168 | 7.40 | 78 | 3 | 240 | 3190 | 17 | 20 | 140 |
| 114419 | 128 | 4.80 | 47 | 3 | 225 | 3790 | 10 | 15 | 135 |
| 114420 | 136 | 4.00 | 33 | 2 | 155 | 4950 | 8 | 17 | 68 |
| 114421 | 78 | 5.50 | 50 | 1 | 235 | 4800 | 9 | 17 | 34 |
| 114422 | 440 | 19.1 | 59 | 5 | 425 | 20500 | 26 | 79 | 207 |
| 114423 | 262 | 6.50 | 109 | 4 | 525 | 7800 | 14 | 23 | 156 |
| 114424 | 340 | 14.2 | 187 | 22 | 700 | 6380 | 38 | 54 | 135 |
| 114425 | 158 | 8.70 | 117 | 9 | 250 | 9040 | 14 | 35 | 145 |
| 114426 | 234 | 11.7 | 206 | 11 | 285 | 11000 | 31 | 71 | 400 |
| 114427 | 692 | 10.0 | 38 | 13 | 350 | 35100 | 41 | 108 | 302 |
| 114428 | 20 | 2.15 | 15 | 3 | 40 | 3920 | 11 | 81 | 201 |
| 114429 | 160 | 4.70 | 65 | 4 | 70 | 2850 | 18 | 71 | 1060 |
| 114430 | 58 | 4.30 | 72 | 6 | 975 | 1500 | 13 | 66 | 470 |
| 114431 | 16 | 2.21 | 53 | 7 | 35 | 1950 | 23 | 108 | 353 |
| 114432 | 32 | 1.37 | 69 | 8 | 50 | 1670 | 48 | 98 | 292 |
| 114433 | 30 | 2.20 | 21 | 3 | 55 | 3300 | 15 | 30 | 217 |
| 114434 | 28 | 10.0 | 28 | 10 | 70 | 2780 | 14 | 780 | 560 |
| 114435 | 36 | 2.47 | 36 | 2 | 55 | 3060 | 14 | 42 | 342 |
| 114436 | 158 | 11.6 | 150 | 7 | 225 | 2460 | 33 | 510 | 470 |
| 114437 | 1460 | 45.0 | 182 | 57 | 385 | 2820 | 460 | 790 | 1690 |
| 114438 | 46 | 4.10 | 45 | 1 | 70 | 2620 | 15 | 23 | 149 |
| 114439 | 48 | 5.40 | 76 | 8 | 115 | 2340 | 30 | 154 | 400 |
| 114440 | 160 | 3.87 | 104 | 11 | 35 | 1800 | 69 | 44 | 910 |



TERRAMIN RESEARCH LABS Ltd.

Job No: 96-246

Client: Orogrande
Project:

| Sample Number | Au ppb | Ag ppm | As ppm | Sb ppm | Hg ppb | Ba ppm | Cu ppm | Pb ppm | Zn ppm |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 114441 | 524 | 5.40 | 66 | 6 | 65 | 1870 | 162 | 250 | 990 |
| 114442 | 404 | 4.40 | 45 | 1 | 60 | 2560 | 47 | 108 | 331 |
| 114443 | 13400 | 273.2 | 54 | 33 | 2825 | 1470 | 370 | 970 | 2610 |
| 114444 | 12200 | 50.5 | 244 | 9 | 2550 | 1960 | 320 | 1080 | 3090 |
| 114445 | 206 | 1.37 | 47 | 1 | 80 | 1220 | 24 | 9 | 121 |
| 114446 | 72 | 2.99 | 92 | 1 | 75 | 1800 | 21 | 41 | 116 |
| 114447 | 122 | 2.14 | 119 | 1 | 105 | 2260 | 27 | 58 | 251 |
| 114448 | 100 | 2.17 | 52 | 1 | 65 | 2310 | 47 | 39 | 115 |
| 114449 | 66 | 2.06 | 88 | 1 | 55 | 1520 | 26 | 116 | 360 |
| 114450 | 58 | 1.66 | 175 | 1 | 215 | 1090 | 40 | 27 | 102 |
| 114451 | 48 | 1.58 | 85 | 1 | 35 | 890 | 30 | 41 | 133 |
| 114452 | 46 | 1.21 | 89 | 1 | 50 | 1010 | 33 | 44 | 203 |
| 114453 | 84 | 5.70 | 1660 | 42 | 875 | 1840 | 55 | 49 | 186 |
| 114454 | 12 | 1.14 | 243 | 1 | 335 | 1800 | 37 | 41 | 259 |
| 114455 | 16 | 1.03 | 150 | 1 | 200 | 2510 | 21 | 39 | 68 |
| 114456 | 14 | 0.73 | 158 | 1 | 115 | 1590 | 22 | 15 | 71 |
| 114457 | 12 | 0.80 | 168 | 1 | 135 | 2350 | 23 | 15 | 59 |
| 114458 | 16 | 0.96 | 270 | 3 | 145 | 860 | 24 | 28 | 56 |
| 114459 | 4 | 0.76 | 181 | 2 | 120 | 1820 | 18 | 19 | 51 |
| 114460 | 20 | 1.02 | 63 | 1 | 105 | 2250 | 20 | 34 | 211 |
| 114461 | 16 | 1.31 | 144 | 2 | 85 | 2220 | 34 | 56 | 135 |
| 114462 | 18 | 2.05 | 115 | 1 | 110 | 2580 | 104 | 41 | 213 |
| 114463 | 22 | 1.38 | 108 | 1 | 120 | 1670 | 18 | 28 | 58 |
| 114464 | 42 | 2.68 | 196 | 3 | 190 | 2140 | 25 | 187 | 349 |
| 114465 | 66 | 3.51 | 260 | 5 | 210 | 1850 | 24 | 67 | 33 |
| 114466 | 104 | 5.60 | 370 | 10 | 525 | 1870 | 150 | 570 | 1730 |
| 114467 | 76 | 5.90 | 310 | 7 | 420 | 3780 | 960 | 850 | 1520 |
| 114468 | 22 | 0.84 | 149 | 3 | 115 | 2070 | 15 | 23 | 86 |
| 114469 | 10 | 0.33 | 85 | 1 | 75 | 1740 | 10 | 10 | 73 |
| 114470 | 16 | 0.36 | 101 | 1 | 85 | 1880 | 29 | 11 | 59 |
| 114471 | 8 | 0.15 | 44 | 1 | 45 | 1750 | 9 | 7 | 67 |
| 114472 | 4 | 0.14 | 65 | 1 | 130 | 1680 | 8 | 3 | 51 |
| 114473 | 4 | 0.06 | 25 | 1 | 30 | 950 | 6 | 2 | 64 |
| 114474 | 2 | 0.07 | 21 | 1 | 20 | 920 | 5 | 1 | 61 |
| 114475 | 6 | 0.22 | 74 | 1 | 60 | 960 | 14 | 4 | 58 |
| 114476 | 2 | 0.09 | 30 | 1 | 20 | 930 | 4 | 16 | 75 |
| 114477 | 54 | 2.91 | 155 | 5 | 35 | 3740 | 37 | 19 | 1980 |
| 114478 | 150 | 5.80 | 203 | 3 | 70 | 2480 | 61 | 74 | 1960 |
| 114479 | 138 | 8.70 | 260 | 10 | 85 | 8830 | 23 | 230 | 2130 |
| 114480 | 860 | 61.5 | 175 | 7 | 170 | 50200 | 12 | 540 | 610 |

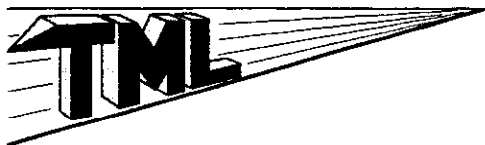


TERRAMIN RESEARCH LABS Ltd.

Job No: 96-246

Client: Orogrande
Project:

| Sample Number | Au ppb | Ag ppm | As ppm | Sb ppm | Hg ppb | Ba ppm | Cu ppm | Pb ppm | Zn ppm |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 114481 | 342 | 109.6 | 156 | 17 | 195 | 99100 | 16 | 630 | 500 |
| 114482 | 328 | 84.1 | 270 | 34 | 310 | 17600 | 15 | 6000 | 640 |
| 114483 | 180 | 58.6 | 173 | 14 | 180 | 14400 | 35 | 2100 | 1380 |
| 114484 | 32 | 3.60 | 167 | 8 | 40 | 3930 | 27 | 260 | 3290 |
| 114485 | 36 | 1.55 | 154 | 2 | 30 | 3190 | 16 | 14 | 2710 |
| 114486 | 160 | 3.85 | 192 | 3 | 30 | 4400 | 39 | 38 | 2370 |
| 114487 | 82 | 2.43 | 212 | 2 | 25 | 2500 | 34 | 16 | 3100 |
| 114488 | 26 | 1.16 | 115 | 1 | 15 | 2910 | 9 | 5 | 1730 |
| 114489 | 28 | 1.47 | 147 | 1 | 80 | 4040 | 22 | 4 | 3270 |
| 114490 | 58 | 1.64 | 236 | 5 | 25 | 3710 | 15 | 10 | 3400 |
| 114491 | 98 | 2.72 | 570 | 9 | 45 | 2560 | 40 | 21 | 3190 |
| 114492 | 124 | 8.20 | 1300 | 67 | 135 | 670 | 46 | 520 | 5900 |
| 114493 | 36 | 6.70 | 2900 | 177 | 200 | 110 | 40 | 370 | 40000 |
| 114494 | 20 | 9.00 | 3100 | 410 | 115 | 200 | 48 | 430 | 30200 |
| 114495 | 12 | 1.56 | 148 | 23 | 35 | 190 | 9 | 59 | 4600 |
| 114496 | 486 | 490.4 | 2250 | 2600 | 1425 | 80 | 670 | 8400 | 28200 |
| 114497 | 300 | 59.6 | 1470 | 490 | 1000 | 220 | 510 | 1940 | 28400 |
| 114498 | 176 | 11.0 | 1630 | 142 | 295 | 290 | 86 | 290 | 11900 |
| 114499 | 90 | 16.0 | 1140 | 98 | 330 | 150 | 31 | 470 | 8500 |
| 114500 | 32 | 4.00 | 280 | 36 | 180 | 170 | 12 | 134 | 4600 |
| 114501 | 40 | 6.10 | 209 | 18 | 290 | 150 | 19 | 390 | 7400 |
| 114502 | 68 | 6.20 | 290 | 51 | 130 | 790 | 19 | 440 | 4300 |
| 114503 | 24 | 3.09 | 255 | 63 | 40 | 2270 | 16 | 290 | 1920 |
| 114504 | 450 | 3.34 | 145 | 67 | 65 | 2400 | 24 | 108 | 1290 |
| 114505 | 428 | 5.50 | 79 | 22 | 90 | 5770 | 159 | 93 | 370 |
| 114506 | 22 | 2.80 | 29 | 10 | 50 | 2320 | 10 | 19 | 284 |
| 114507 | 10 | 2.60 | 18 | 4 | 40 | 2940 | 8 | 21 | 131 |
| 114508 | 16 | 2.15 | 15 | 5 | 30 | 2850 | 12 | 16 | 77 |
| 114509 | 36 | 1.48 | 42 | 3 | 210 | 2360 | 9 | 16 | 162 |
| 114510 | 18 | 0.77 | 25 | 2 | 40 | 2150 | 9 | 14 | 245 |
| 114511 | 32 | 1.65 | 70 | 2 | 80 | 1980 | 10 | 27 | 165 |
| 114512 | 8 | 1.95 | 59 | 2 | 125 | 1540 | 9 | 39 | 133 |
| 114513 | 4 | 1.33 | 33 | 2 | 75 | 2090 | 8 | 27 | 174 |
| 114514 | 4 | 1.30 | 16 | 2 | 35 | 1770 | 7 | 19 | 167 |
| 114515 | 14 | 1.39 | 15 | 3 | 40 | 2660 | 7 | 20 | 284 |
| 114516 | 14 | 1.78 | 17 | 2 | 50 | 2690 | 19 | 31 | 187 |
| 114517 | 24 | 2.24 | 28 | 3 | 60 | 2070 | 9 | 18 | 241 |
| 114518 | 24 | 1.74 | 18 | 1 | 50 | 2410 | 8 | 25 | 660 |



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

**Orogrande
c/o Madrona Mining Limited
1125, 333 - 11th Ave. S.W.
Calgary, AB T2R 1L9**

Mike Marchand

Date: Sept. 20, 1996

Job No: 96-240

Project: Orogrande

5 Rock Samples

Signed: _____

A handwritten signature in black ink, appearing to be 'j.m.m.', is written over a horizontal line that serves as a signature line.

**14, 2235 30th Avenue N.E., Calgary, AB, T2E 7C7
Phone: (403)250-9460 Fax: (403)291-7064**



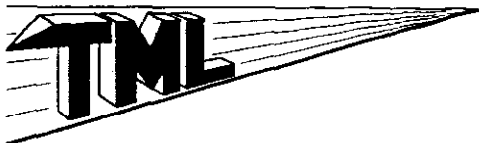
TERRAMIN RESEARCH LABS Ltd.

Job No: 96-240

Client: Orogrande
Project:

| Sample Number | Au ppb | Ag ppm | As ppm | Bi ppm | Sb ppm |
|---------------|-----------|-----------|-----------|-----------|-----------|
| 580851 | 194 | 12.5 | 360 | 1 | 18 |
| 580852 | 36 | 2.20 | 190 | 1 | 13 |
| 580853 | 1100 | 125.0 | 900 | 1 | 64 |
| 580920 | 384 | 42.0 | 3100 | 3 | 750 |
| 580921 | 20 | 0.85 | 63 | 1 | 12 |

| Sample Number | Cu ppm | Pb ppm | Zn ppm | Ba ppm |
|---------------|-----------|-----------|-----------|-----------|
| 580851 | 9 | 63 | 31 | 2620 |
| 580852 | 6 | 62 | 144 | 3380 |
| 580853 | 71 | 590 | 390 | 800 |
| 580920 | 79 | 760 | 59000 | 30 |
| 580921 | 18 | 12 | 290 | 2680 |



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Orogrande
c/o Madrona Mining
1125, 333 - 11th Ave. S.W.
Calgary, AB. T2R 1L9

Mike Marchand

Date: Oct. 21, 1996

Job No: 96-248

Project:

156 Drill Core

Signed: _____

[Handwritten signature]

14, 2235 30th Avenue N.E., Calgary, AB, T2E 7C7
Phone: (403)250-9460 Fax: (403)291-7064



TERRAMIN RESEARCH LABS Ltd.

Job No: 96-248

Client: Orogrande
Project:

| Sample Number | Au ppb | Ag ppm | As ppm | Sb ppm | Hg ppb | Ba ppm | Cu ppm | Pb ppm | Zn ppm |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 114519 | 3160 | 51.5 | 34 | 37 | 775 | 2420 | 96 | 260 | 830 |
| 114520 | 172 | 3.90 | 38 | 9 | 175 | 3420 | 46 | 50 | 223 |
| 114521 | 1788 | 6.00 | 48 | 7 | 190 | 2900 | 73 | 127 | 490 |
| 114522 | 132 | 3.68 | 72 | 7 | 230 | 3120 | 18 | 49 | 366 |
| 114523 | 56 | 1.96 | 27 | 3 | 115 | 2430 | 9 | 23 | 177 |
| 114524 | 34 | 3.03 | 41 | 6 | 220 | 1900 | 10 | 32 | 197 |
| 114525 | 1274 | 6.50 | 40 | 7 | 210 | 2360 | 17 | 24 | 130 |
| 114526 | 42 | 2.85 | 57 | 4 | 85 | 2700 | 12 | 40 | 292 |
| 114527 | 46 | 2.66 | 40 | 4 | 300 | 3010 | 11 | 18 | 166 |
| 114528 | 70 | 4.70 | 69 | 6 | 135 | 3060 | 25 | 174 | 172 |
| 114529 | 110 | 3.78 | 91 | 11 | 425 | 3810 | 23 | 165 | 215 |
| 114530 | 748 | 9.60 | 430 | 32 | 2950 | 2190 | 48 | 290 | 1330 |
| 114531 | 202 | 5.10 | 254 | 18 | 1450 | 2860 | 30 | 290 | 820 |
| 114532 | 174 | 3.87 | 270 | 17 | 1000 | 3400 | 25 | 79 | 359 |
| 114533 | 1112 | 12.9 | 790 | 60 | 8500 | 4960 | 142 | 590 | 1430 |
| 114534 | 220 | 2.77 | 160 | 8 | 1050 | 7070 | 13 | 32 | 119 |
| 114535 | 4180 | 22.7 | 250 | 36 | 3375 | 28900 | 184 | 920 | 1570 |
| 114536 | 3040 | 8.50 | 215 | 9 | 2050 | 2100 | 186 | 840 | 3590 |
| 114537 | 1816 | 14.3 | 105 | 9 | 1225 | 2440 | 470 | 1160 | 3290 |
| 114538 | 832 | 35.0 | 1050 | 47 | 6500 | 2480 | 78 | 330 | 900 |
| 114539 | 158 | 11.2 | 217 | 8 | 625 | 3100 | 66 | 156 | 303 |
| 114540 | 940 | 92.0 | 1590 | 88 | 9000 | 2420 | 410 | 1090 | 1440 |
| 114541 | 668 | 45.2 | 970 | 45 | 2450 | 1060 | 83 | 178 | 620 |
| 114542 | 222 | 14.7 | 410 | 33 | 1275 | 2760 | 270 | 520 | 1730 |
| 114543 | 4 | 0.47 | 49 | 3 | 50 | 6750 | 29 | 4 | 950 |
| 114544 | 14 | 0.54 | 78 | 3 | 55 | 6330 | 16 | 2 | 239 |
| 114545 | 80 | 3.52 | 202 | 3 | 75 | 2590 | 12 | 49 | 1460 |
| 114546 | 22 | 1.18 | 101 | 3 | 20 | 4340 | 6 | 8 | 920 |
| 114547 | 12 | 0.81 | 24 | 1 | 40 | 3310 | 33 | 2 | 260 |
| 114548 | 40 | 3.43 | 38 | 1 | 50 | 4830 | 25 | 2 | 95 |
| 114549 | 22 | 1.11 | 47 | 1 | 35 | 4240 | 33 | 1 | 341 |
| 114550 | 4 | 0.48 | 28 | 2 | 130 | 5360 | 18 | 1 | 161 |
| 114551 | 6 | 0.32 | 10 | 1 | 215 | 4390 | 53 | 1 | 405 |
| 114552 | 10 | 0.66 | 11 | 1 | 30 | 2410 | 57 | 1 | 830 |
| 114553 | 6 | 1.25 | 49 | 1 | 30 | 3680 | 53 | 2 | 630 |
| 114554 | 8 | 1.06 | 57 | 1 | 30 | 2790 | 43 | 2 | 66 |
| 114555 | 18 | 1.09 | 110 | 1 | 20 | 3610 | 15 | 4 | 86 |
| 114556 | 14 | 2.36 | 176 | 5 | 35 | 2480 | 23 | 9 | 282 |
| 114557 | 14 | 2.56 | 71 | 11 | 120 | 2500 | 33 | 195 | 2200 |
| 114558 | 44 | 2.37 | 98 | 1 | 95 | 3200 | 16 | 15 | 66 |



TERRAMIN RESEARCH LABS Ltd.

Job No: 96-248

Client: Orogrande
Project:

| Sample Number | Au ppb | Ag ppm | As ppm | Sb ppm | Hg ppb | Ba ppm | Cu ppm | Pb ppm | Zn ppm |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 114559 | 20 | 0.91 | 46 | 2 | 50 | 2830 | 17 | 8 | 59 |
| 114560 | 52 | 2.95 | 1150 | 11 | 395 | 1200 | 47 | 58 | 19900 |
| 114561 | 4 | 1.06 | 22 | 2 | 75 | 1180 | 31 | 32 | 670 |
| 114562 | 1416 | 84.2 | 1360 | 68 | 4220 | 10700 | 76 | 64 | 180 |
| 114563 | 4 | 1.33 | 26 | 2 | 75 | 3360 | 93 | 3 | 128 |
| 114564 | 6 | 0.87 | 46 | 5 | 40 | 3420 | 14 | 8 | 140 |
| 114565 | 14 | 3.40 | 300 | 55 | 65 | 2100 | 27 | 260 | 6100 |
| 114566 | 308 | 141.7 | 1390 | 670 | 775 | 1500 | 134 | 13300 | 29700 |
| 114567 | 942 | 484.0 | 4500 | 3000 | 1450 | 200 | 380 | 11200 | 22600 |
| 114568 | 2580 | 1800.0 | 5000 | 11800 | 2450 | 160 | 540 | 78000 | 25800 |
| 114569 | 40 | 6.80 | 7300 | 240 | 220 | 300 | 44 | 360 | 5000 |
| 114570 | 30 | 4.40 | 380 | 92 | 85 | 1740 | 39 | 97 | 2300 |
| 114571 | 18 | 1.98 | 57 | 14 | 60 | 2400 | 12 | 24 | 860 |
| 114572 | 40 | 3.60 | 400 | 84 | 65 | 2990 | 32 | 54 | 3370 |
| 114573 | 132 | 5.50 | 96 | 7 | 185 | 3980 | 21 | 31 | 123 |
| 114574 | 56 | 5.90 | 36 | 2 | 150 | 2780 | 11 | 19 | 61 |
| 114575 | 52 | 4.10 | 28 | 1 | 100 | 2570 | 8 | 16 | 42 |
| 114576 | 62 | 5.00 | 32 | 2 | 140 | 4700 | 9 | 19 | 31 |
| 114577 | 58 | 4.00 | 49 | 1 | 115 | 2750 | 9 | 21 | 41 |
| 114578 | 40 | 2.49 | 63 | 2 | 150 | 2450 | 11 | 24 | 149 |
| 114579 | 12 | 1.49 | 33 | 4 | 80 | 2330 | 7 | 18 | 182 |
| 114580 | 14 | 1.64 | 21 | 5 | 60 | 2310 | 7 | 16 | 160 |
| 114581 | 14 | 1.86 | 34 | 5 | 100 | 2050 | 7 | 14 | 450 |
| 114582 | 30 | 1.89 | 22 | 5 | 80 | 2580 | 8 | 14 | 220 |
| 114583 | 410 | 3.48 | 111 | 4 | 310 | 3070 | 16 | 42 | 163 |
| 114584 | 716 | 7.50 | 175 | 4 | 450 | 3740 | 19 | 47 | 196 |
| 114585 | 140 | 7.50 | 160 | 3 | 775 | 4160 | 16 | 33 | 205 |
| 114586 | 150 | 4.10 | 47 | 2 | 290 | 3600 | 15 | 36 | 144 |
| 114587 | 1112 | 68.2 | 87 | 74 | 3750 | 9180 | 1070 | 2700 | 3830 |
| 114588 | 1740 | 26.2 | 69 | 26 | 3375 | 7160 | 510 | 3300 | 7500 |
| 114589 | 42 | 0.94 | 12 | 4 | 60 | 8780 | 10 | 31 | 165 |
| 114590 | 1740 | 17.8 | 49 | 44 | 450 | 2420 | 290 | 530 | 1150 |
| 114591 | 118 | 2.26 | 35 | 7 | 45 | 4870 | 19 | 67 | 165 |
| 114592 | 1340 | 13.2 | 63 | 20 | 165 | 2770 | 76 | 123 | 210 |
| 114593 | 3880 | 40.0 | 77 | 34 | 750 | 2300 | 350 | 540 | 1690 |
| 114594 | 1990 | 8.30 | 39 | 14 | 255 | 2320 | 50 | 192 | 570 |
| 114595 | 2460 | 50.0 | 38 | 35 | 380 | 3280 | 120 | 290 | 790 |
| 114596 | 1218 | 5.80 | 35 | 19 | 275 | 2610 | 87 | 260 | 570 |
| 114597 | 850 | 6.90 | 41 | 18 | 165 | 3640 | 77 | 260 | 630 |
| 114598 | 744 | 8.80 | 109 | 22 | 675 | 13600 | 1140 | 1100 | 1570 |



TERRAMIN RESEARCH LABS Ltd.

Job No: 96-248

Client: Orogrande
Project:

| Sample Number | Au ppb | Ag ppm | As ppm | Sb ppm | Hg ppb | Ba ppm | Cu ppm | Pb ppm | Zn ppm |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 114599 | 208 | 4.20 | 53 | 4 | 185 | 4250 | 25 | 131 | 186 |
| 114600 | 42 | 1.57 | 20 | 2 | 45 | 3150 | 10 | 15 | 52 |
| 114601 | 46 | 1.97 | 18 | 1 | 50 | 3070 | 31 | 19 | 62 |
| 114602 | 40 | 1.83 | 20 | 2 | 65 | 2890 | 13 | 28 | 119 |
| 114603 | 90 | 3.58 | 30 | 3 | 90 | 3400 | 39 | 39 | 107 |
| 114604 | 220 | 3.86 | 40 | 1 | 140 | 4320 | 60 | 88 | 236 |
| 114605 | 808 | 4.80 | 57 | 2 | 390 | 4700 | 174 | 320 | 1150 |
| 114606 | 122 | 4.00 | 71 | 1 | 175 | 3730 | 26 | 23 | 60 |
| 114607 | 136 | 4.70 | 58 | 1 | 160 | 3110 | 32 | 51 | 119 |
| 114608 | 120 | 3.41 | 43 | 1 | 185 | 3150 | 27 | 34 | 116 |
| 114609 | 232 | 6.80 | 65 | 1 | 85 | 4640 | 55 | 63 | 144 |
| 114610 | 688 | 6.30 | 105 | 2 | 130 | 3630 | 121 | 90 | 332 |
| 114611 | 730 | 5.40 | 94 | 1 | 225 | 2680 | 116 | 103 | 284 |
| 114612 | 618 | 9.40 | 61 | 1 | 300 | 3360 | 76 | 350 | 690 |
| 114613 | 36 | 1.90 | 49 | 1 | 55 | 10100 | 18 | 15 | 1100 |
| 114614 | 170 | 8.20 | 103 | 8 | 55 | 33300 | 88 | 230 | 940 |
| 114615 | 64 | 3.68 | 126 | 3 | 145 | 2420 | 26 | 1550 | 3360 |
| 114616 | 32 | 9.30 | 166 | 1 | 30 | 5500 | 26 | 510 | 1670 |
| 114617 | 386 | 2.35 | 154 | 1 | 85 | 3600 | 25 | 790 | 2830 |
| 114618 | 30 | 3.67 | 119 | 12 | 25 | 1960 | 17 | 19 | 2630 |
| 114619 | 32 | 6.40 | 350 | 41 | 115 | 820 | 42 | 990 | 13200 |
| 114620 | 8 | 1.74 | 16800 | 8300 | 3100 | 180 | 790 | 16400 | 22800 |
| 114621 | 30 | 13.2 | 2080 | 1430 | 1075 | 240 | 145 | 3500 | 9300 |
| 114622 | 5500 | 1905.0 | 500 | 55 | 205 | 1640 | 26 | 119 | 4800 |
| 114623 | 330 | 286.0 | 173 | 9 | 200 | 2700 | 22 | 17 | 500 |
| 114624 | 18 | 60.1 | 139 | 10 | 210 | 4980 | 26 | 32 | 145 |
| 114625 | 140 | 2.79 | 107 | 7 | 110 | 3160 | 41 | 20 | 48 |
| 114626 | 32 | 1.68 | 80 | 2 | 85 | 4230 | 8 | 16 | 25 |
| 114627 | 60 | 3.26 | 96 | 3 | 140 | 3010 | 16 | 29 | 84 |
| 114628 | 204 | 4.10 | 76 | 1 | 345 | 2870 | 20 | 21 | 85 |
| 114629 | 64 | 2.08 | 59 | 2 | 95 | 2150 | 12 | 16 | 55 |
| 114630 | 110 | 5.00 | 215 | 15 | 900 | 1740 | 99 | 32 | 99 |
| 114631 | 48 | 1.73 | 107 | 2 | 190 | 1670 | 13 | 15 | 122 |
| 114632 | 32 | 1.38 | 79 | 2 | 150 | 2430 | 8 | 11 | 78 |
| 114633 | 48 | 0.98 | 62 | 1 | 345 | 2380 | 11 | 8 | 78 |
| 114634 | 400 | 8.40 | 850 | 48 | 7500 | 1910 | 26 | 26 | 94 |
| 114635 | 348 | 11.8 | 730 | 51 | 5000 | 2280 | 26 | 22 | 78 |
| 114636 | 1024 | 11.9 | 98 | 3 | 160 | 2070 | 50 | 43 | 133 |
| 114637 | 922 | 2.67 | 37 | 1 | 55 | 2120 | 53 | 5 | 54 |
| 114638 | 438 | 1.49 | 58 | 1 | 55 | 1640 | 33 | 46 | 186 |

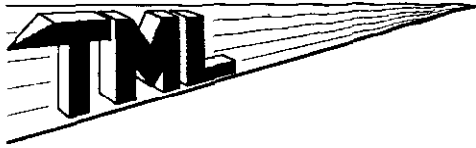


TERRAMIN RESEARCH LABS Ltd.

Job No: 96-248

Client: Orogrande
Project:

| Sample Number | Au ppb | Ag ppm | As ppm | Sb ppm | Hg ppb | Ba ppm | Cu ppm | Pb ppm | Zn ppm |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 114639 | 260 | 9.60 | 112 | 19 | 105 | 1930 | 54 | 390 | 1690 |
| 114640 | 24 | 0.32 | 17 | 1 | 30 | 1250 | 26 | 4 | 77 |
| 114641 | 24 | 0.95 | 80 | 2 | 150 | 2340 | 50 | 67 | 129 |
| 114642 | 6 | 0.36 | 14 | 1 | 45 | 2070 | 16 | 6 | 78 |
| 114643 | 20 | 0.39 | 20 | 1 | 115 | 1880 | 16 | 10 | 70 |
| 114644 | 8 | 0.35 | 61 | 2 | 90 | 1320 | 14 | 6 | 159 |
| 114645 | 2 | 0.18 | 13 | 1 | 35 | 650 | 6 | 4 | 82 |
| 114646 | 178 | 9.30 | 244 | 26 | 1050 | 7660 | 14 | 51 | 200 |
| 114647 | 176 | 17.3 | 420 | 42 | 1175 | 10000 | 15 | 1000 | 1750 |
| 114648 | 38 | 9.80 | 490 | 27 | 500 | 2870 | 29 | 1030 | 690 |
| 114649 | 52 | 8.00 | 290 | 31 | 500 | 2980 | 12 | 420 | 640 |
| 114650 | 20 | 5.60 | 280 | 32 | 750 | 2870 | 8 | 68 | 195 |
| 114651 | 118 | 15.0 | 330 | 22 | 575 | 1580 | 42 | 44 | 314 |
| 114652 | 86 | 6.30 | 270 | 9 | 600 | 2700 | 23 | 23 | 86 |
| 114653 | 480 | 9.80 | 99 | 7 | 375 | 1640 | 26 | 179 | 780 |
| 114654 | 10 | 2.48 | 61 | 1 | 80 | 2000 | 21 | 17 | 106 |
| 114655 | 28 | 4.40 | 181 | 4 | 150 | 1370 | 23 | 48 | 193 |
| 114656 | 18 | 2.85 | 91 | 3 | 65 | 3610 | 21 | 18 | 44 |
| 114657 | 6 | 2.52 | 65 | 2 | 60 | 3910 | 16 | 24 | 70 |
| 114658 | 40 | 3.43 | 113 | 4 | 120 | 2430 | 14 | 28 | 139 |
| 114659 | 38 | 1.79 | 58 | 1 | 30 | 2300 | 19 | 12 | 79 |
| 114660 | 98 | 2.30 | 80 | 1 | 65 | 2490 | 24 | 45 | 161 |
| 114661 | 40 | 1.04 | 48 | 1 | 35 | 2690 | 28 | 11 | 73 |
| 114662 | 84 | 2.40 | 85 | 1 | 50 | 1830 | 20 | 42 | 189 |
| 114663 | 40 | 2.20 | 38 | 1 | 55 | 2050 | 24 | 49 | 330 |
| 114664 | 40 | 1.89 | 50 | 1 | 40 | 2290 | 25 | 81 | 338 |
| 114665 | 48 | 1.87 | 54 | 2 | 35 | 1950 | 24 | 16 | 121 |
| 114666 | 36 | 1.32 | 37 | 1 | 35 | 2370 | 17 | 9 | 87 |
| 114667 | 44 | 2.62 | 62 | 5 | 30 | 1460 | 43 | 5 | 85 |
| 114668 | 258 | 1.91 | 63 | 1 | 65 | 1360 | 16 | 58 | 128 |
| 114669 | 44 | 1.40 | 60 | 3 | 55 | 1150 | 24 | 10 | 58 |
| 114670 | 46 | 5.00 | 134 | 8 | 120 | 1830 | 23 | 340 | 1060 |
| 114671 | 80 | 0.97 | 67 | 1 | 60 | 1600 | 20 | 12 | 73 |
| 114672 | 108 | 1.42 | 50 | 4 | 70 | 950 | 27 | 8 | 151 |
| 114673 | 1070 | 1.40 | 25 | 4 | 60 | 2350 | 28 | 11 | 81 |
| 114674 | 50 | 3.01 | 62 | 6 | 75 | 1690 | 52 | 95 | 235 |



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Orogrande
c/o Madrona Mining
1125, 333 - 11th Ave. S.W.
Calgary, Alberta, T2R 1L9

Mike Marchand

Date: Nov. 1, 1996

Job No: 96-265

Project: Nizi

42 Gold, Silver Table Assays

Signed: *ymd.*

14, 2235 30th Avenue N.E., Calgary, AB, T2E 7C7
Phone: (403)250-9460 Fax: (403)291-7064



TERRAMIN RESEARCH LABS Ltd.

Job No: 96- 265-A

Client: Orogrande
Project: Nizi

| Job # | Sample Number | Conc. Weight | Tails Weight | Total Weight | Conc.Au ppb | Tails Au ppb | Total Au ppb |
|--------|---------------|--------------|--------------|--------------|-------------|--------------|--------------|
| 96-246 | 114437 | 33.58 | 2441 | 2475 | 9142 | 1178 | 1286 |
| 96-246 | 114438 | 23.33 | 2227 | 2250 | 724 | 58 | 65 |
| 96-246 | 114439 | 24.62 | 2700 | 2725 | 896 | 58 | 66 |
| 96-246 | 114440 | 23.18 | 1952 | 1975 | 3300 | 330 | 365 |
| 96-246 | 114441 | 26.25 | 2449 | 2475 | 6933 | 794 | 859 |
| 96-246 | 114442 | 25.84 | 2874 | 2900 | 3754 | 512 | 541 |
| 96-246 | 114443 | 16.72 | 2758 | 2775 | 255084 | 13660 | 15115 |
| 96-246 | 114444 | 34.58 | 2615 | 2650 | 105552 | 13500 | 14701 |
| 96-248 | 114519 | 13.28 | 2187 | 2200 | 28652 | 3680 | 3831 |
| 96-248 | 114520 | 25.93 | 2024 | 2050 | 1681 | 378 | 394 |
| 96-248 | 114521 | 24.19 | 2476 | 2500 | 18210 | 1858 | 2016 |
| 96-248 | 114522 | 28.17 | 2697 | 2725 | 2272 | 162 | 184 |
| 96-248 | 114523 | 27.73 | 2447 | 2475 | 710 | 64 | 71 |
| 96-248 | 114524 | 30.31 | 2270 | 2300 | 450 | 44 | 49 |
| 96-248 | 114525 | 29.05 | 2446 | 2475 | 6059 | 982 | 1042 |
| 96-248 | 114526 | 33.40 | 2317 | 2350 | 413 | 46 | 51 |
| 96-248 | 114527 | 23.27 | 2277 | 2300 | 731 | 48 | 55 |
| 96-248 | 114528 | 25.97 | 2499 | 2525 | 655 | 62 | 68 |
| 96-248 | 114529 | 12.71 | 2437 | 2450 | 5271 | 176 | 202 |
| 96-248 | 114530 | 17.03 | 2533 | 2550 | 11098 | 546 | 616 |
| 96-248 | 114531 | 22.00 | 2128 | 2150 | 4750 | 164 | 211 |
| 96-248 | 114532 | 24.71 | 2500 | 2525 | 3642 | 218 | 252 |
| 96-248 | 114533 | 27.44 | 2423 | 2450 | 10969 | 1268 | 1377 |
| 96-248 | 114534 | 17.97 | 2632 | 2650 | 5704 | 258 | 295 |
| 96-248 | 114535 | 24.82 | 2475 | 2500 | 10052 | 1678 | 1761 |
| 96-248 | 114536 | 30.38 | 2645 | 2675 | 36208 | 1794 | 2185 |
| 96-248 | 114537 | 30.01 | 2520 | 2550 | 13829 | 1594 | 1738 |
| 96-248 | 114538 | 60.55 | 2364 | 2425 | 5425 | 574 | 695 |
| 96-248 | 114539 | 53.47 | 2072 | 2125 | 1188 | 180 | 205 |
| 96-248 | 114540 | 159.04 | 2441 | 2600 | 84884 | 868 | 6007 |
| 96-248 | 114541 | 99.57 | 2550 | 2650 | 3746 | 496 | 618 |
| 96-248 | 114542 | 21.99 | 2678 | 2700 | 2592 | 212 | 231 |
| 96-248 | 114622 | 12.12 | 1513 | 1525 | 198 | 32 | 33 |
| 96-248 | 114623 | 16.24 | 2459 | 2475 | 4218 | 160 | 187 |
| 96-248 | 114646 | 31.08 | 2319 | 2350 | 886 | 206 | 215 |
| 96-248 | 114647 | 27.85 | 2272 | 2300 | 772 | 114 | 122 |
| 96-248 | 114648 | 21.24 | 2229 | 2250 | 188 | 28 | 30 |
| 96-248 | 114649 | 37.65 | 2387 | 2425 | 210 | 32 | 35 |
| 96-248 | 114650 | 32.04 | 2418 | 2450 | 211 | 14 | 17 |
| 96-248 | 114651 | 28.94 | 2071 | 2100 | 1228 | 86 | 102 |
| 96-248 | 114652 | 19.52 | 2930 | 2950 | 1383 | 48 | 57 |
| 96-248 | 114653 | 34.13 | 2091 | 2125 | 5450 | 568 | 646 |

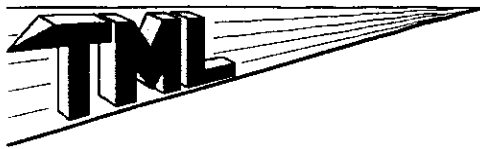


TERRAMIN RESEARCH LABS Ltd.

Job No: 96- 265-B

Client: Orogrande
Project: Nizi

| Job # | Sample Number | Conc. Weight | Tails Weight | Total Weight | Conc.Ag ppm | Tails Ag ppm | Total Ag ppm |
|--------|---------------|--------------|--------------|--------------|-------------|--------------|--------------|
| 96-246 | 114437 | 33.58 | 2441 | 2475 | 271.66 | 29.86 | 33.14 |
| 96-246 | 114438 | 23.33 | 2227 | 2250 | 57.72 | 3.40 | 3.96 |
| 96-246 | 114439 | 24.62 | 2700 | 2725 | 132.51 | 4.70 | 5.85 |
| 96-246 | 114440 | 23.18 | 1952 | 1975 | 26.96 | 3.90 | 4.17 |
| 96-246 | 114441 | 26.25 | 2449 | 2475 | 67.43 | 6.10 | 6.75 |
| 96-246 | 114442 | 25.84 | 2874 | 2900 | 35.31 | 3.70 | 3.98 |
| 96-246 | 114443 | 16.72 | 2758 | 2775 | 1450.36 | 237.90 | 245.21 |
| 96-246 | 114444 | 34.58 | 2615 | 2650 | 274.73 | 61.40 | 64.18 |
| 96-248 | 114519 | 13.28 | 2187 | 2200 | 240.40 | 43.70 | 44.89 |
| 96-248 | 114520 | 25.93 | 2024 | 2050 | 36.97 | 3.50 | 3.92 |
| 96-248 | 114521 | 24.19 | 2476 | 2500 | 71.83 | 5.80 | 6.44 |
| 96-248 | 114522 | 28.17 | 2697 | 2725 | 45.88 | 3.50 | 3.94 |
| 96-248 | 114523 | 27.73 | 2447 | 2475 | 26.14 | 1.77 | 2.04 |
| 96-248 | 114524 | 30.31 | 2270 | 2300 | 23.92 | 1.74 | 2.03 |
| 96-248 | 114525 | 29.05 | 2446 | 2475 | 36.23 | 5.00 | 5.37 |
| 96-248 | 114526 | 33.40 | 2317 | 2350 | 20.96 | 1.87 | 2.14 |
| 96-248 | 114527 | 23.27 | 2277 | 2300 | 25.78 | 1.75 | 1.99 |
| 96-248 | 114528 | 25.97 | 2499 | 2525 | 51.02 | 3.50 | 3.99 |
| 96-248 | 114529 | 12.71 | 2437 | 2450 | 70.81 | 3.30 | 3.65 |
| 96-248 | 114530 | 17.03 | 2533 | 2550 | 104.52 | 7.10 | 7.75 |
| 96-248 | 114531 | 22.00 | 2128 | 2150 | 79.89 | 3.80 | 4.58 |
| 96-248 | 114532 | 24.71 | 2500 | 2525 | 58.98 | 3.50 | 4.04 |
| 96-248 | 114533 | 27.44 | 2423 | 2450 | 107.69 | 14.00 | 15.05 |
| 96-248 | 114534 | 17.97 | 2632 | 2650 | 43.93 | 3.00 | 3.28 |
| 96-248 | 114535 | 24.82 | 2475 | 2500 | 51.87 | 10.60 | 11.01 |
| 96-248 | 114536 | 30.38 | 2645 | 2675 | 71.02 | 5.30 | 6.05 |
| 96-248 | 114537 | 30.01 | 2520 | 2550 | 104.30 | 14.30 | 15.36 |
| 96-248 | 114538 | 60.55 | 2364 | 2425 | 162.59 | 18.90 | 22.49 |
| 96-248 | 114539 | 53.47 | 2072 | 2125 | 61.30 | 9.80 | 11.10 |
| 96-248 | 114540 | 159.04 | 2441 | 2600 | 339.54 | 56.70 | 74.00 |
| 96-248 | 114541 | 99.57 | 2550 | 2650 | 187.81 | 48.51 | 53.74 |
| 96-248 | 114542 | 21.99 | 2678 | 2700 | 105.62 | 11.60 | 12.37 |
| 96-248 | 114622 | 12.12 | 1513 | 1525 | 398.10 | 53.80 | 56.54 |
| 96-248 | 114623 | 16.24 | 2459 | 2475 | 55.42 | 2.60 | 2.95 |
| 96-248 | 114646 | 31.08 | 2319 | 2350 | 62.18 | 7.30 | 8.03 |
| 96-248 | 114647 | 27.85 | 2272 | 2300 | 148.03 | 6.00 | 7.72 |
| 96-248 | 114648 | 21.24 | 2229 | 2250 | 60.03 | 5.80 | 6.31 |
| 96-248 | 114649 | 37.65 | 2387 | 2425 | 52.46 | 4.30 | 5.05 |
| 96-248 | 114650 | 32.04 | 2418 | 2450 | 57.04 | 3.60 | 4.30 |
| 96-248 | 114651 | 28.94 | 2071 | 2100 | 170.78 | 10.00 | 12.22 |
| 96-248 | 114652 | 19.52 | 2950 | 2950 | 92.98 | 3.80 | 4.42 |
| 96-248 | 114653 | 34.13 | 2125 | 2125 | 78.30 | 15.20 | 16.46 |



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Orogrande Mining
1125, 333 - 11th Avenue S.W.
Calgary, Alberta
T2R 1L9

Mike Marchand
cc: Robin Chisholm

Date: Nov. 12, 1996

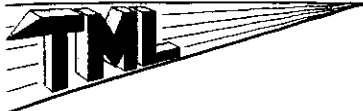
Job No: 96-254

Project: Nizi (BC-96-2)

2 Rock

Signed: 

14, 2235 30th Avenue N.E., Calgary, AB, T2E 7C7
Phone: (403)250-9460 Fax: (403)291-7064

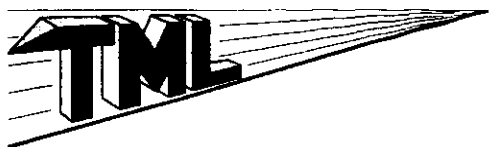


TERRAMIN RESEARCH LABS Ltd.

Job No: 96-254

Client: Orogrande
Project: BC-96-2 Nizi

| Sample Number | Cu ppm | Pb ppm | Zn ppm |
|---------------|--------|--------|--------|
| 114675 | 11 | 10 | 88 |
| 114676 | 6 | 3 | 24 |



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

**Orogrande
c/o Madrona Mining
1125, 333 - 11th Ave. S.W.
Calgary, Alberta, T2R 1L9**

Mike Marchand / Robin Chisholm

Date: Nov. 11, 1996

Job No: 96-254-B

Project: Nizi

2 ICP Analysis (sub-contracted)

Signed: _____

**14, 2235 30th Avenue N.E., Calgary, AB, T2E 7C7
Phone: (403)250-9460 Fax: (403)291-7064**



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: TERRAMIN RESEARCH LABS LTD.

14 - 2235 30TH AVE, N.E.
CALGARY, ALBERTA
T2E 7C7

A9637871

Comments:

CERTIFICATE

A9637871

(DUC) - TERRAMIN RESEARCH LABS LTD.

Project: 96-254
P.O.#:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 4-NOV-96.

SAMPLE PREPARATION

| CHEMEX CODE | NUMBER SAMPLES | DESCRIPTION |
|-------------|----------------|---------------------------------|
| 214 | 2 | Rcvd as pulp; mesh size checked |
| 229 | 2 | ICP - AQ Digestion charge |

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

| CHEMEX CODE | NUMBER SAMPLES | DESCRIPTION | METHOD | DETECTION LIMIT | UPPER LIMIT |
|-------------|----------------|----------------------------------|---------|-----------------|-------------|
| 2118 | 2 | Ag ppm: 32 element, soil & rock | ICP-AES | 0.2 | 100.0 |
| 2119 | 2 | Al %: 32 element, soil & rock | ICP-AES | 0.01 | 15.00 |
| 2120 | 2 | As ppm: 32 element, soil & rock | ICP-AES | 2 | 10000 |
| 2121 | 2 | Ba ppm: 32 element, soil & rock | ICP-AES | 10 | 10000 |
| 2122 | 2 | Be ppm: 32 element, soil & rock | ICP-AES | 0.5 | 100.0 |
| 2123 | 2 | Bi ppm: 32 element, soil & rock | ICP-AES | 2 | 10000 |
| 2124 | 2 | Ca %: 32 element, soil & rock | ICP-AES | 0.01 | 15.00 |
| 2125 | 2 | Cd ppm: 32 element, soil & rock | ICP-AES | 0.5 | 100.0 |
| 2126 | 2 | Co ppm: 32 element, soil & rock | ICP-AES | 1 | 10000 |
| 2127 | 2 | Cr ppm: 32 element, soil & rock | ICP-AES | 1 | 10000 |
| 2128 | 2 | Cu ppm: 32 element, soil & rock | ICP-AES | 1 | 10000 |
| 2150 | 2 | Fe %: 32 element, soil & rock | ICP-AES | 0.01 | 15.00 |
| 2130 | 2 | Ga ppm: 32 element, soil & rock | ICP-AES | 10 | 10000 |
| 2131 | 2 | Hg ppm: 32 element, soil & rock | ICP-AES | 1 | 10000 |
| 2132 | 2 | K %: 32 element, soil & rock | ICP-AES | 0.01 | 10.00 |
| 2151 | 2 | La ppm: 32 element, soil & rock | ICP-AES | 10 | 10000 |
| 2134 | 2 | Mg %: 32 element, soil & rock | ICP-AES | 0.01 | 15.00 |
| 2135 | 2 | Mn ppm: 32 element, soil & rock | ICP-AES | 5 | 10000 |
| 2136 | 2 | Mo ppm: 32 element, soil & rock | ICP-AES | 1 | 10000 |
| 2137 | 2 | Na %: 32 element, soil & rock | ICP-AES | 0.01 | 5.00 |
| 2138 | 2 | Ni ppm: 32 element, soil & rock | ICP-AES | 1 | 10000 |
| 2139 | 2 | P ppm: 32 element, soil & rock | ICP-AES | 10 | 10000 |
| 2140 | 2 | Pb ppm: 32 element, soil & rock | ICP-AES | 2 | 10000 |
| 2141 | 2 | Sb ppm: 32 element, soil & rock | ICP-AES | 2 | 10000 |
| 2142 | 2 | Sc ppm: 32 elements, soil & rock | ICP-AES | 1 | 10000 |
| 2143 | 2 | Sr ppm: 32 element, soil & rock | ICP-AES | 1 | 10000 |
| 2144 | 2 | Ti %: 32 element, soil & rock | ICP-AES | 0.01 | 5.00 |
| 2145 | 2 | Tl ppm: 32 element, soil & rock | ICP-AES | 10 | 10000 |
| 2146 | 2 | U ppm: 32 element, soil & rock | ICP-AES | 10 | 10000 |
| 2147 | 2 | V ppm: 32 element, soil & rock | ICP-AES | 1 | 10000 |
| 2148 | 2 | W ppm: 32 element, soil & rock | ICP-AES | 10 | 10000 |
| 2149 | 2 | Zn ppm: 32 element, soil & rock | ICP-AES | 2 | 10000 |



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: TERRAMIN RESEARCH LABS LTD. **

14 - 2235 30TH AVE, N.E.
 CALGARY, ALBERTA
 T2E 7C7

Project : 96-254
 Comments:

Page Number : 1-A
 Total Pages : 1
 Certificate Date : 04-NOV-96
 Invoice No. : 19637871
 P.O. Number :
 Account : DUC

CERTIFICATE OF ANALYSIS

A9637871

| SAMPLE | PREP CODE | Ag ppm | Al % | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | Hg ppm | K % | La ppm | Mg % | Mn ppm | Mo ppm |
|--------|-----------|-----------|---------|-----------|-----------|-----------|-----------|---------|-----------|-----------|-----------|-----------|---------|-----------|-----------|--------|-----------|---------|-----------|-----------|
| 114675 | 214 229 | < 0.2 | 1.60 | < 2 | 30 | 0.5 | 2 | 11.45 | 0.5 | 16 | 30 | 9 | 2.99 | 10 | < 1 | 0.10 | 10 | 1.43 | 2090 | < 1 |
| 114676 | 214 229 | < 0.2 | 0.38 | < 2 | 80 | < 0.5 | < 2 | 7.39 | 0.5 | 4 | 73 | 6 | 1.03 | < 10 | < 1 | 0.06 | 10 | 0.33 | 1770 | 3 |

CERTIFICATION: H. J. ...



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: TERRAMIN RESEARCH LABS LTD.

14 - 2235 30TH AVE, N.E.
CALGARY, ALBERTA
T2E 7C7

Project : 96-254
Comments:

Page Number : 1-8
Total Pages : 1
Certificate Date: 04-NOV-96
Invoice No. : I9637871
P.O. Number :
Account : DUC

CERTIFICATE OF ANALYSIS

A9637871

| SAMPLE | PREP | | Na | Ni | P | Pb | Sb | Sc | Sr | Ti | Tl | U | V | W | Zn |
|--------|------|-----|------|-----|-----|-----|-----|-----|-----|--------|------|------|-----|------|-----|
| | CODE | | % | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| 114675 | 214 | 229 | 0.01 | 23 | 340 | 16 | 2 | 3 | 242 | < 0.01 | < 10 | < 10 | 17 | < 10 | 96 |
| 114676 | 214 | 229 | 0.03 | 10 | 280 | 8 | < 2 | 2 | 209 | < 0.01 | < 10 | < 10 | 10 | < 10 | 26 |

CERTIFICATION: _____

APPENDIX III

Statement of Expenditures

| | | | |
|---------------------------|--------------------------------------|-------------|----------------------|
| Personnel | | | |
| Senior Geologist | 22.0 days @ \$425/day | 9,350.00 | |
| Senior Geologist | 11.5 days @ \$350/day | 4,025.00 | |
| Senior Geologist | 11.0 days @ \$500/day | 5,500.00 | |
| Prospector/Assistant | 20.0 days @ \$300/day | 6,000.00 | |
| Cook | 17.0 days @ \$240.39 | 4,086.63 | 28,961.63 |
| Camp | | | |
| materials and supplies | | 15,577.88 | |
| freight | | 2,650.98 | |
| camp and rental equipment | | 9,591.49 | 27,820.35 |
| Diamond Drilling | 3,002 feet | | 97,509.33 |
| Helicopter | drill moves, support, crew transport | | 76,078.00 |
| Assaying | | | 9,415.10 |
| Travel and Accommodation | (crew and equipment) | | 15,370.29 |
| Report Preparation | | | <u>4,301.00</u> |
| | | SUB-TOTAL | 259,455.70 |
| Administration | (at 10%) | | <u>25,945.57</u> |
| | | GRAND TOTAL | \$ <u>285,401.27</u> |

APPENDIX IV

Bibliography

Bond, W.D. (1993): Geological, Geochemical and Diamond Drilling Report on the Nizi Mineral Claims; B.C. Assessment Report 22840

RGS #44 (1996): Open file Report, B.C. Geological Survey, Geochemical Survey of Cry Lake Area (NTS 104I)