

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**23,013**

**ASSESSMENT REPORT  
on the  
DISCOVERY CLAIM GROUP**

**Vancouver Mining Division  
Callaghan Creek Area  
British Columbia**

92J3E  
50°05'  
123°06'

for

**REGREENA RESOURCES INC.**

**#706, 525 Seymour Street  
Vancouver, British Columbia  
V6B 3H7**

FILMED

by

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V7G 2B1**

**AUGUST 22, 1993**

## TABLE OF CONTENTS

	<u>Page</u>
SUMMARY	i
1. INTRODUCTION	1
1.1 Objectives	1
1.2 Location and Access	1
1.3 Physiography	2
1.4 Property Definition	2
2. HISTORY AND PREVIOUS WORK	3
3. GEOLOGY AND MINERALIZATION	5
3.1 Regional Geology	5
3.2 Property Geology and Mineralization	5
4. GEOCHEMISTRY	7
5. TRENCHING PROGRAMME	10
10	
6. DRILLING PROGRAMME	11
7. CONCLUSIONS AND RECOMMENDATIONS	14
8. SELECTED BIBLIOGRAPHY	16
9. STATEMENT OF COSTS	17

## LIST OF TABLES

Table 1:	Pertinent Claim Data	2
Table 2:	Trenches' Physical Data	10
Table 3:	Diamond Drill Hole Locations	11

## **LIST OF APPENDICES**

APPENDIX I:	Statement of Qualifications
APPENDIX II:	Analytical Data for Geochemical Samples
APPENDIX III:	Drill Logs
APPENDIX IV:	Statistical Treatment of Data

## **LIST OF FIGURES**

		<u>After page</u>
Figure 1:	Location Map	1
Figure 2:	Topographic Map	1
Figure 3:	Claim Map	2
Figure 4:	Regional Geology Map	5
Figure 5:	Property Geology Map	6
Figure 6:	Sample Location Map	8
Figure 6a:	Sample Location Map in Soil Lines A & B	8
Figure 6b:	Gold Anomalies in 1993 Soil Grid	8
Figure 6c:	Silver & Arsenic Anomalies in 1993 Soil Grid	8
Figure 6d:	Copper & Lead Anomalies in 1993 Soil Grid	8
Figure 6e:	Zinc & Molybdenum Anomalies in 1993 Soil Grid	8
Figure 6f:	Gold Anomalies in Soil Lines A & B	8
Figure 6g:	Silver & Arsenic Anomalies in Soil Lines A& B	8
Figure 6h:	Copper & Lead Anomalies in Soil Lines A & B	8
Figure 6i:	Zinc & Molybdenum Anomalies in Soil Lines A& B	8
Figure 7:	Drill Holes and Trenches Locations	10

## **SUMMARY**

The Regeena Resources Inc. Property, which consists of 34 metric units, lies approximately 10 kilometers southwest of Whistler and 85 kilometers north of Vancouver, British Columbia, in the Vancouver Mining Division. Easy access by four-wheel drive vehicle is provided by the paved Highway 99 and then by a number of logging gravel roads that criss-cross the claim group.

Exploration in the Callaghan Creek-Brandywine Creek area is known since the early 1920's when mineral occurrences were discovered on a small tributary of Brandywine Creek. In the 1970's the Warman Property, which is adjacent to the Discovery Claim Group to the northeast, was developed by Northair Mines Ltd. The Northair Mines, which production occurred from 1976 to 1982, milled approximately 345,700 tons of ore yielding 166,582 ounces of gold and 845,854 ounces of silver. Production was suspended in 1982 due to the economic situation with reserves reported (February 28, 1982) at 67,236 tons of ore averaging 0.25 oz Au/ton, 0.77 oz Ag/ton, 1.25% lead and 1.90% zinc. On the La Rock Mining Corp. Property, located immediately southwest of the Discovery Property, recent drilling activities (1993) led to the discovery of massive sulphides and visible gold in the drill intersections. The Market News Publishing Inc. reports (Aug. 10, 1993) that an average of 0.23 oz Au/ton was found over 73 feet. Within that 73 feet zone, assay values as high as 2.228 oz Au/ton, 1.29 oz Ag/ton, 4.07% lead and 5.17% zinc were present.

The Discovery Property is underlain by a package of intermediate meta-volcanic rocks and by quartz diorite intrusion of the Coast Plutonic Complex. The geological setting and the north-northwest to northeast trending structures on the subject claims are similar to those found on both the adjacent properties of Northair Mines and La Rock Mining properties.

The 1993 exploration programme, which consisted of 415 soil samples collected on a grid established in the eastern portion of the Discovery Property as well as a trenching and drilling programme conducted on the 1988 Main Grid area, located in the western part of the subject claims, defined very encouraging results. Several multi-element anomalies in the soil samples were recorded and encouraging precious and/or base metal anomalies were registered. Based on the

successful results obtained during the present work programme, the writer concludes that the Discovery Property has the potential of hosting precious and/or base metal mineralization similar in nature to the one found in the adjacent properties of Northair Mines and La Rock Mining.

Further exploration work on the Regeena Resources Inc. Discovery Property is therefore warranted and recommended by the writer. Details of the proposed follow-up work are included in the body of the present report.

# **1. INTRODUCTION**

## **1.1 Objectives**

This evaluation of the Discovery Claim Group, Callaghan Creek Area, British Columbia property was done at the request of the Directors of Regeena Resources Inc, who retained Bush Resources Ltd. to carry out the exploration programme. The main purpose of the present report is to evaluate the potential of the subject property for hosting precious metal deposits, similar to those found in the general area, and to propose an exploration program design to test this potential.

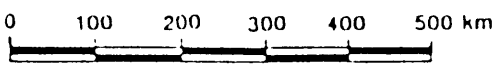
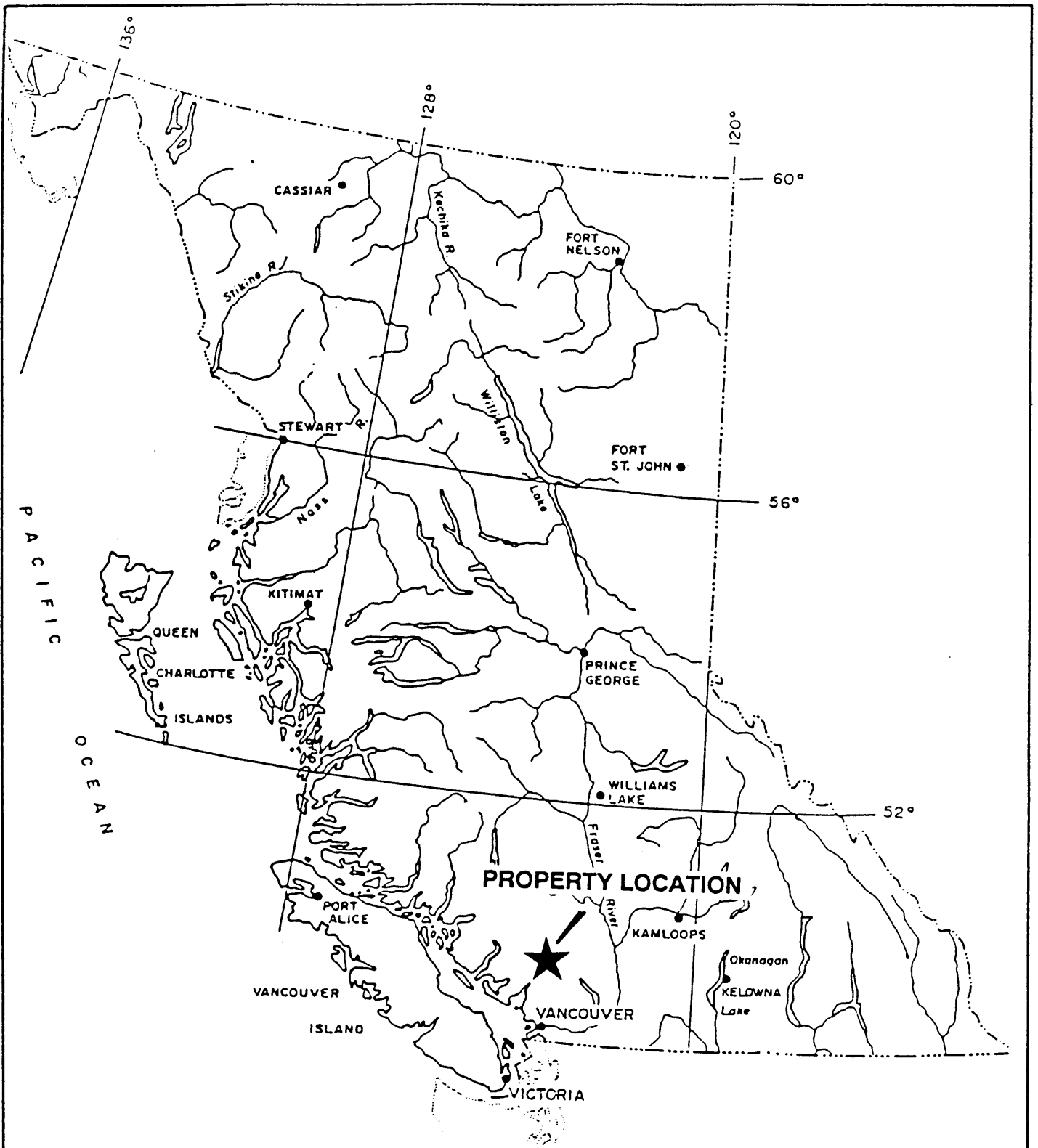
This report is based on a review of public and private reports pertaining to the area, recent exploration activities on the property, government geological and topographical maps and claim data from the mining recorder's office. The writer visited the Regeena Resources Inc.'s property during the summer of 1993.

## **1.2 Location and Access (Figures 1 & 2)**

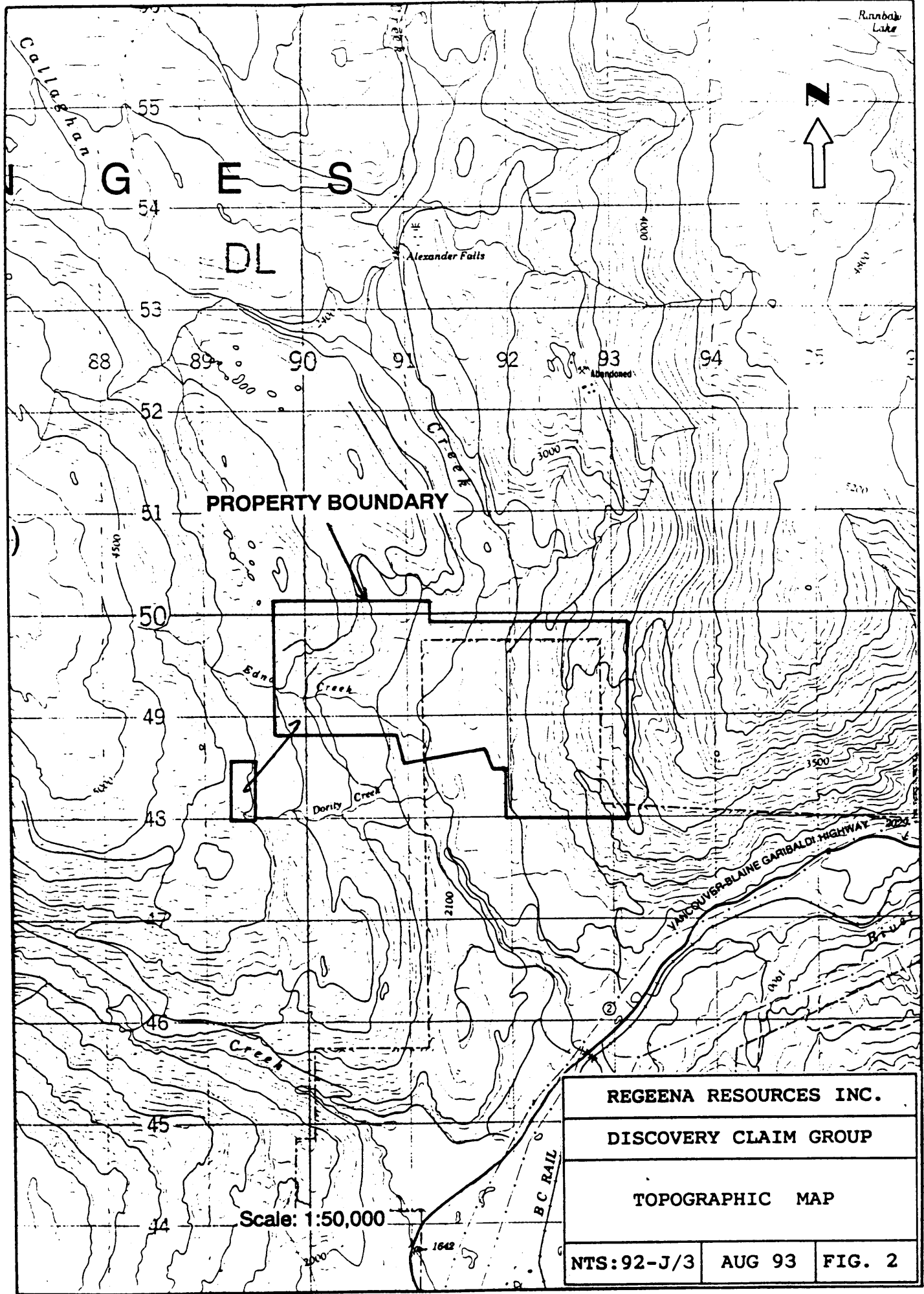
Province:	British Columbia
Area:	Callaghan Creek
Mining Division:	Vancouver
NTS:	92 - J - 3E
Longitude:	123° 06' West
Latitude:	50° 05' North
Disposition Holders:	Regeena Resources Inc.

The Discovery I, Discovery II and Discovery IV claim group, which consists of 34 metric units, lies approximately 10 kilometers southwest of the tourist-resort of Whistler and 85 kilometers north of Vancouver, British Columbia. The property, located in the Coast Mountains of Southwestern British Columbia, lies on NTS Map Sheet 92-J-3E and is centered at latitude 50° 05' North and longitude 123° 06' West. The claim group straddle the Callaghan Creek Valley.

The property is accessed from Vancouver, British Columbia by two-wheel drive vehicle via the paved Highway 99 to the Callaghan Creek Logging Road (Northair Mine access). From there, a secondary all-weather gravel road leads to



REGEENA RESOURCES INC.		
DISCOVERY CLAIM GROUP		
LOCATION MAP		
NTS:92-J/3	AUG 93	FIG. 1





the Regeena Claim Group's boundaries. Logging activities in the valley resulted in a network of two and four-wheel drive roads that criss-cross the property. Travel time from Vancouver to the claims is approximately 90 minutes.

The Vancouver-Lillooet British Columbia Railway track follows Highway 99 and lies within less than two kilometers southeast of the property. In addition, a power line follows also Highway 99.

### 1.3 Physiography

Local topographic relief varies from moderate to steep and topography in the area is fairly mature. Elevations within the property range from about 610 meters (2,000 feet) A.S.L. at the bottom of Callaghan Creek's Valley to almost 975 meters (3,200 feet) on the higher slopes in the eastern portion of the claims.

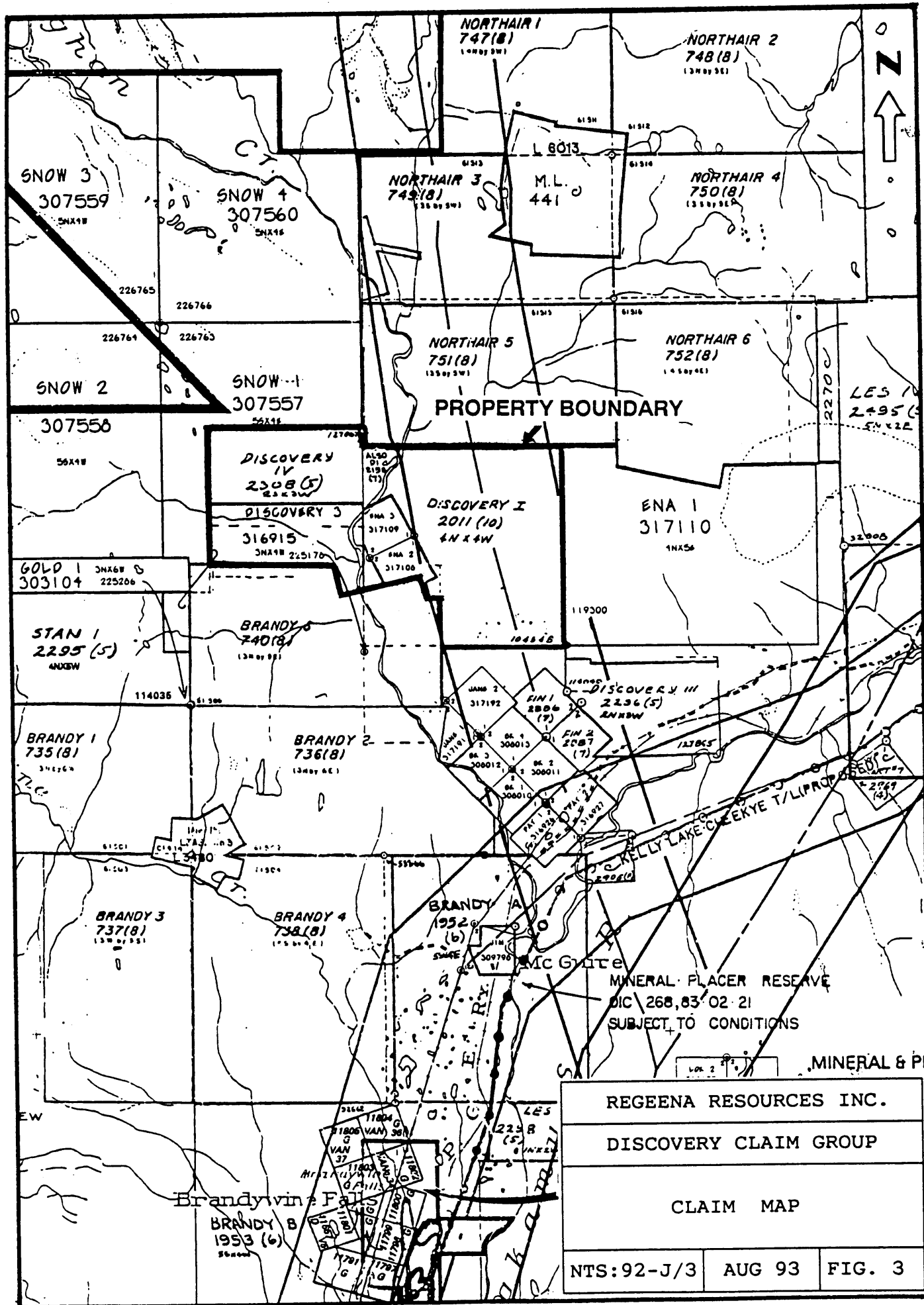
Vegetation is typical of the coast rain forest, consisting mainly of hemlock, yellow cedar and balsam. The property has been logged recently.

### 1.4 Property Definition

The Regeena Resources Inc. property, which this report refers to, comprises 34 metric units in the Vancouver Mining Division, British Columbia. The claims are recorded in the Vancouver Mining Recorder's office as follows:

**Table 1: Pertinent Claim Data**

<u>Name</u>	<u>Record #</u>	<u>Expiry Date*</u>
Discovery I	258329	May 27, 1998
Discovery 3	316915	April 7, 1994
Discovery IV	258425	May 27, 1998
Ena 2	317108	April 21, 1994
Ena 3	317109	April 21, 1994



SNOW 3  
307559  
50X18

SNOW 4  
307560  
50X18

NORTHAIR 3  
749(8)  
35 00 50W

NORTHAIR 2  
748(8)  
13 00 50E

NORTHAIR 4  
750(8)  
13 00 50E

SNOW 2  
307558  
50X18

SNOW 1  
307557  
50X18

NORTHAIR 5  
751(8)  
15 00 50W

NORTHAIR 6  
752(8)  
14 00 00E

DISCOVERY IV  
2308(5)  
25 X 30W

DISCOVERY 3  
316915  
50X18 225170

DISCOVERY I  
2011(10)  
4N X 4W

ENA 1  
317110  
1N X 5E

GOLD 1  
303104  
50X18 225206

STAN 1  
2295(5)  
40X20

BRANDY 5  
740(8)  
13 00 50E

BRANDY 1  
735(8)  
34 X 26N

BRANDY 2  
736(8)  
13 00 50E

BRANDY 3  
737(8)  
13 00 50E

BRANDY 4  
738(8)  
15 00 00E

BRANDY A  
1952(6)  
50X18

DISCOVERY III  
2236(5)  
20X20W

McGITE  
MINERAL PLACER RESERVE  
D/C 268,83' 02-21  
SUBJECT TO CONDITIONS

MINERAL & PI

REGEENA RESOURCES INC.		
DISCOVERY CLAIM GROUP		
CLAIM MAP		
NTS:92-J/3	AUG 93	FIG. 3

Brandywine Falls  
BRANDY B  
1953(6)  
50X18

The entire property is shown on the Mineral Claim Map 92 – J / 3 E and on Figure 3 of the present report.

Any legal aspects pertaining to the claims are beyond the scope of this report.

(\*) Prior to Recording the 1993 Work Programme

## **2. HISTORY AND PREVIOUS WORK**

The history of the area and of the property has been described in detail by Peter A. Christopher, Ph.D., P.Eng. (report dated September 28, 1988) as follows:

*"The first reports of exploration and mineral occurrences along the Pacific Great Eastern Railroad, now British Columbia Railroad, were made by Camsell (1917) in Summary Report, 1917, Part B, Geological Survey of Canada. In the 1942 Report of the Minister of Mines, Brewer states that, 'During 1924 discoveries were made by Helmar Hogstrom on a small tributary of the Brandywine River, about 3 miles westerly from McGuire Siding, which are of considerable importance and promise to supply a tonnage of ore and supplies for railway-haul during the coming season of 1925.' The description apparently apply to the Astra and Cambria prospects (B.C. Mineral Inventory 92-JW #1) and Blue Jack prospect (B.C. Mineral Inventory 92-JW #3) operated in 1969 and 1970 by Barkley Valley Mines Ltd. and Van Silver Explorations Ltd., respectively.*

*The area appears to have received a number of prospecting efforts with a few small shipments from the Astra-Cambria and Blue Jack prospects prior to discovery of the Warman Property on Callaghan Creek in 1970 by Dr. M.P. Warshawski, an amateur prospector, and Mr. A.H. Manifold, a geologist. The Warman Property was explored and developed by Northair Mines Ltd. from 1972 to start production in 1976. From 1976 to June 1982, the Northair Mines milled 345,700 tons yielding 166,582 ounces of gold and 845,854 ounces of silver with by-product production of copper, lead and zinc. Milling was suspended in June 1982 due to economic conditions with reserves as of February 28, 1982 reported at 67,236 tons averaging 0.25 oz Au/ton, 0.77 oz Ag/ton, 1.25% lead and 1.90% zinc.*

*Acquisition of the Discovery Claim Group was started by Les Demczuk, geologist with staking of the Discovery I claim on October 26, 1986 with the Discovery II claim added on April 5, 1987. Hadley Resources Inc. purchased the property from S. Carnogursky on May 10, 1988 with the Discovery IV claim added to the property by Les Demczuk as agent for Hadley Resources, exploration of the Discovery Property consisted of a brief geological and geochemical program to satisfy assessment requirements (Demczuk and Cuttle, 1987).*

*Peter Christopher & Associates was retained by Hadley Resources Inc. in May 1988 to review the property and recommend a program of exploration. A Phase I, geological, geochemical and geophysical program was conducted on the Discovery Property from May to August, 1988."*

In the Summer of 1988, a geological, geochemical, and geophysical exploration programme was conducted on the Discovery Property. A total of 558 soil and 39 rock samples were collected mainly in the western portion of the claim group and a total of 25 line kilometers of total field magnetometer and VLF-EM were surveyed. Strong base and precious metal anomalies in the soil samples and NNW trending VLF-EM conductive zones indicate the presence of mineralized structures similar to those on the adjacent Northair Mines and La Rock Mining Properties. Additional work was recommended, consisting of trenching and drilling. In December 1988, a short exploration programme consisting of prospecting, grid cutting, geological mapping, as well as rock and soil sampling was carried on the eastern portion of the Discovery Property. Additional work in this area is warranted by anomalous results found in soil samples.

In 1992, a limited work programme was conducted on the property in order to file assessment and maintain the claim group. The work consisted of a 1000 meter geochemical line, located outside the area of previous exploration, along which 41 samples were collected. Results in soils (up to 128 ppb gold, 142 ppm copper, and 731 ppm zinc) warrant additional prospecting and sampling in this area.

### **3. GEOLOGY AND MINERALIZATION**

#### **3.1 Regional Geology**

The regional geology was described in detail by Christopher (report dated September 1988) as follows:

*"The general geology of the Callaghan Creek area has been mapped by Roddick and Woodsworth (1976), Mathews (1958) and Miller and Sinclair (1978, 1979). Figure 3 is after Miller and Sinclair (1978) mapping published in the B.C. Ministry of Mines and Pet. Resources Fieldwork 1977. They show the Discovery Property to be underlain by dioritic units of the Cretaceous or earlier Coast Plutonic Complex which host roof pendent of metavolcanic and related metasedimentary rocks. Northwesterly trending structures appear localized Tertiary basalts which occur along the Callaghan Creek valley.*

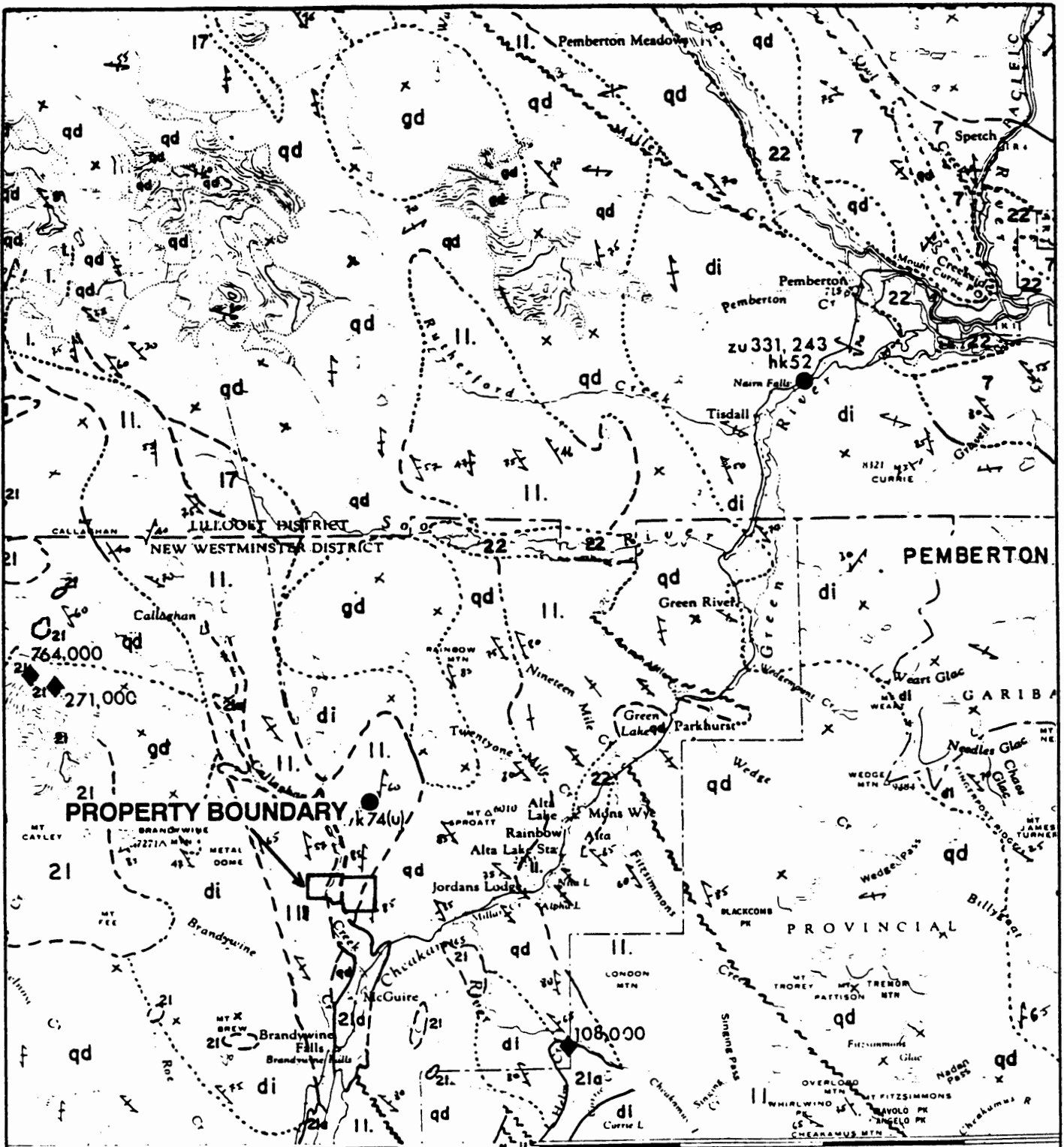
*The north-northwesterly trend of Tertiary volcanic rocks is also reflected in the trend of the mineralized zones on the Warman Property of Northair Mines Ltd. The Warman, Discovery and Manifold zones on the Northair Mines Property are believed to have resulted from right lateral separation of a single mineralized zone along northerly trending fault structures."*

#### **3.2 Property Geology and Mineralization**

The property geology and mineralization was described in detail by Christopher (report dated September 1988) in the following terms:

##### Property Geology

*" The geology of the 1988 grid area was mapped by Duro Adamec as shown of Figure 3A. He defined three main units: 1) Pale chloritic and muscovite schist, 2) Greenstone of assumed andesitic composition, and 3) Fine Quartz Diorite. A contact between andesitic greenstone and dacitic tuff in a road metal pit at 8+00E 12+00 N and previous mapping of the Northair Mines Property suggest that the greenstone unit may be subdivisable. The diorite unit is fine to medium grained and pale to medium grey-green with an equigranular texture. Dioritic rocks in the area are reported to contain 45% plagioclase, 25% chlorite, 14% epidote, 8% quartz, and the remainder accessory minerals. Tertiary basaltic rocks have been mapped by Miller and Sinclair (1978) just east of the grid area.*



**LEGEND**

- 11 Lower Cretaceous Gamber Group
- di Diorite
- qd Quartz Diorite
- gd Granodiorite



REGEENA RESOURCES INC.		
DISCOVERY CLAIM GROUP		
REGIONAL GEOLOGY MAP		
NTS:92-J/3	AUG 93	FIG. 4

*The chloritic and muscovite schist units appear to be related to major shear or fault zones that cross the property with a number of northerly and north-northwesterly zones recognized. Bedding, foliation and measured vein direction range from about N10°E to N10°W with mainly steep easterly dips.*

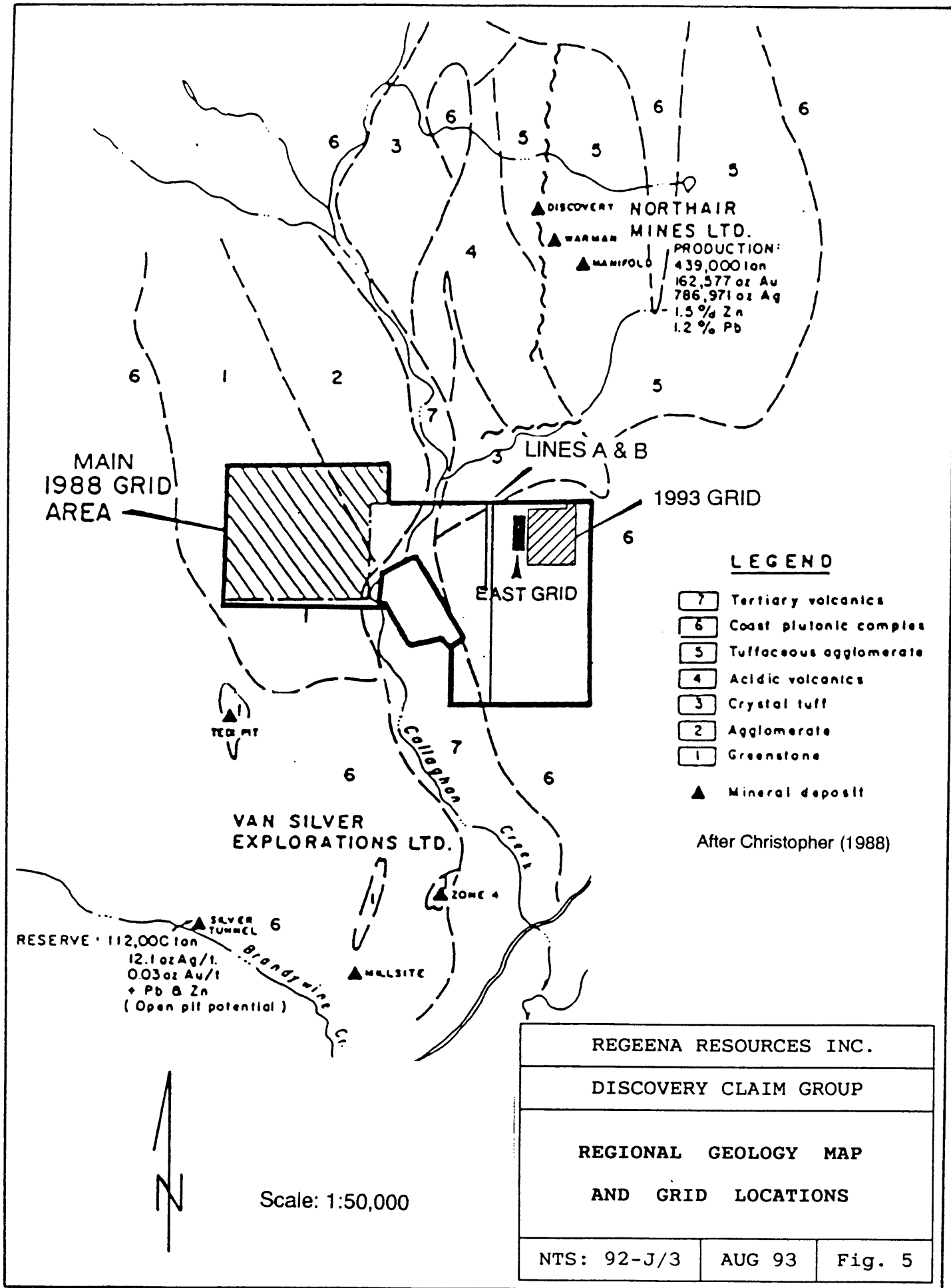
### Mineralization

*Exploration on the Discovery Property has been oriented toward location of deposits similar to those exploited on the adjacent Warman Property of Northair Mines Ltd. The deposits on the Warman Property are apparently faulted segments of a single 'volcanogenic' exhalite deposits that has been somewhat deformed and remobilized during metamorphism that accompanied emplacement of the Coast Plutonic Complex (Miller and Sinclair, 1979). Between 1967 and 1982 Northair Mines Ltd. milled 345,700 tons yielding 166,582 ounces of gold (5,181 kg) and 845,854 ounces of silver (26,309 kg) with by-product copper, lead and zinc. The Northair Mines Ltd. suspended mining with reserves of about 61,000 metric tonnes grading 7.775 gm. gold, 23.94 gm. silver, 1.25% lead and 1.90% zinc.*

*Several significant occurrences are found in the Callaghan Creek area. The occurrences (Figure 3), controlled by Northair Mines Ltd. and associated companies (Silver Tusk Mines Ltd. and Brandy Resources Inc.), are of the following types:*

- 1. Discovery -- Massive Sulphide*
- 2. Warman Zone -- Veins, Massive Sulphide and Disseminated*
- 3. Manifold Zone -- Veins and Disseminated*
- 4. Silver Tunnel -- Veins and Disseminated*
- 5. Millsite -- Veins and Disseminated*
- 6. Tedi Pit -- Massive Sulphide*
- 7. Zone 4 -- Massive Sulphide and Skarn.*

*The Zone 4 occurrences contains sphalerite, pyrite and minor chalcopyrite in a skarn. The other occurrences and deposits are polymetallic, containing galena, sphalerite, and pyrite with significant amounts of several silver mineral and native gold, and minor amounts of chalcopyrite and pyrrhotite (Miller and Sinclair, 1978)."*





#### **4. GEOCHEMISTRY**

The geochemical sampling program emphasized mainly soil sampling. All of the samples were submitted to International Plasma Laboratory Ltd. (IPL), in Vancouver, British Columbia for gold, silver, arsenic, molybdenum, copper, lead, and zinc analysis. Analytical data for the soils are reported in Appendix II-A.

A total of 415 soil samples were collected along the grid established in the northeastern portion of the Discovery III Claims and along two north-south lines located west of the above mentioned grid. The grid lines were set 50 meters apart whereas the two north-south lines were set one hundred meters apart. Samples were collected at an interval of 25 meters.

The "B" soil horizon was sampled at depth varying from 10 to 25 cm. A soil pit was dug at each location and approximately 250 g of material (½ lbs) was removed and placed in a standard kraft envelope.

Statistical treatment of data for the soils was conducted for the following elements: gold, silver, arsenic, molybdenum, copper, lead, and zinc. Statistical calculated results for the above elements are listed in Appendix IV.

##### **Gold:**

Gold values in the 415 soil samples varied from less than 5 ppb to 169 ppb with 13 sample results over 71 ppb considered anomalous. Gold values were plotted on Figure 6b (1993 Soil Grid) and on Figure 6f (Soil Lines A & B).

##### **Silver:**

Silver values in the 415 soil samples varied from less than 0.1 ppm to 9.4 ppm with 4 sample results over 2.1 ppm considered anomalous. Silver values were plotted on Figure 6c (1993 Soil Grid) and on Figure 6g (Soil Lines A & B).

Arsenic:

Arsenic values in the 415 soil samples varied from less than 5.0 ppm to 42 ppm with 7 sample results over 12.0 ppm considered anomalous. Arsenic values were plotted on Figure 6c (1993 Soil Grid) and on Figure 6g (Soil Lines A & B).

Copper:

Copper values in the 415 soil samples varied from 8.0 ppm to 5054 ppm with 19 sample results over 200 ppm considered anomalous. Copper values were plotted on Figure 6d (1993 Soil Grid) and on Figure 6h (Soil Lines A & B).

Lead:

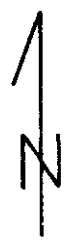
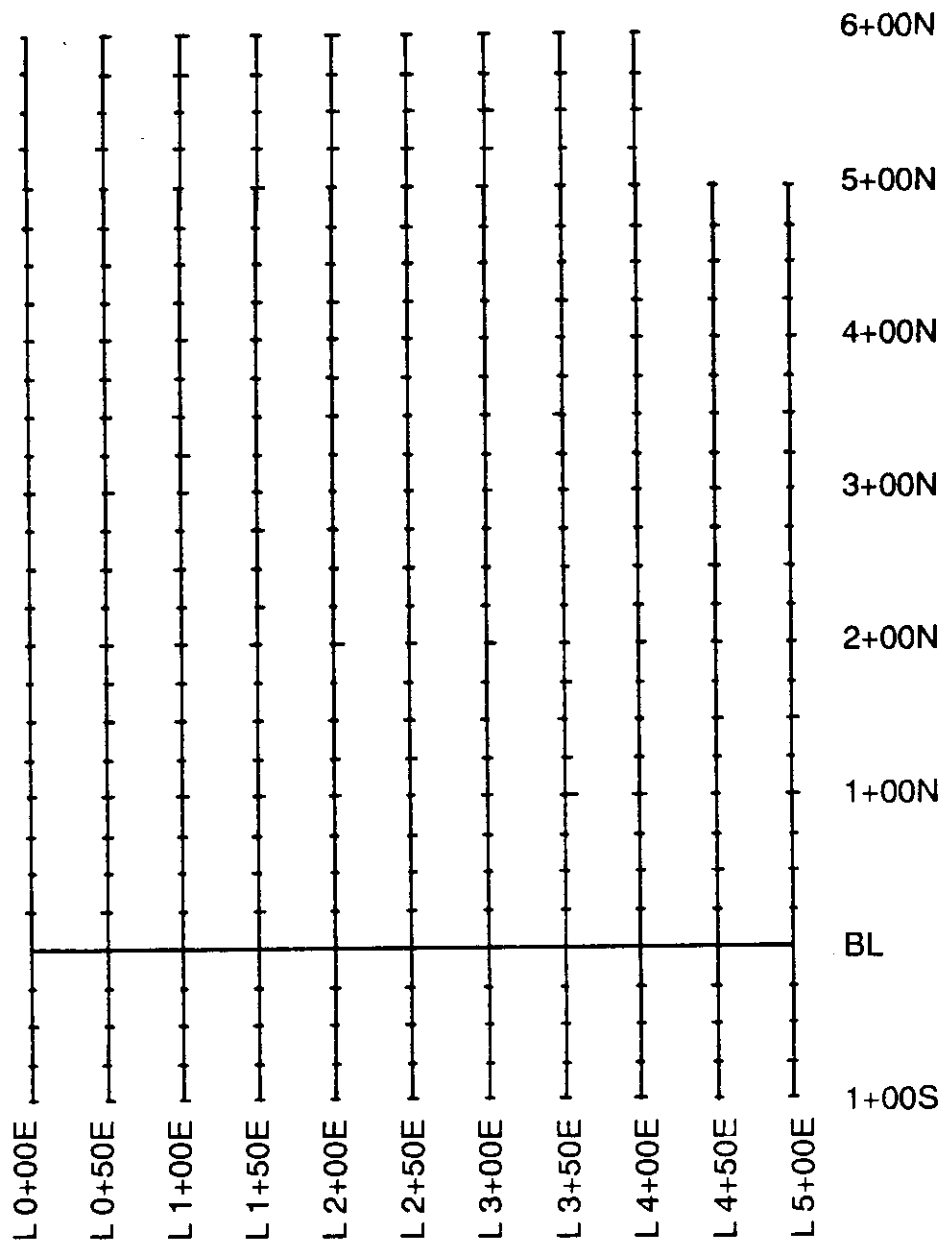
Lead values in the 415 soil samples varied from less than 2.0 ppm to 110 ppm with 11 sample results over 39.0 ppm considered anomalous. Lead values were plotted on Figure 6d (1993 Soil Grid) and on Figure 6h (Soil Lines A & B).

Zinc:

Zinc values in the 415 soil samples varied from 26.0 ppm to 320 ppm with 8 sample results over 155.0 ppm considered anomalous. Zinc values were plotted on Figure 6e (1993 Soil Grid) and on Figure 6i (Soil Lines A & B).

Molybdenum:

Molybdenum values in the 415 soil samples varied from less than 1.0 ppm to 28.0 ppm with 16 sample results over 12.0 ppm considered anomalous. Molybdenum values were plotted on Figure 6e (1993 Soil Grid) and on Figure 6i (Soil Lines A & B).



Scale: 1:5,000

REGEENA RESOURCES INC.		
DISCOVERY CLAIM GROUP		
SAMPLE LOCATION MAP		
NTS: 92-J/3	AUG 93	FIG. 6

0+00 S      LA LB      Discovery I Northern  
Property Boundary

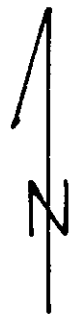
5+00 S

8+00 S

10+00 S

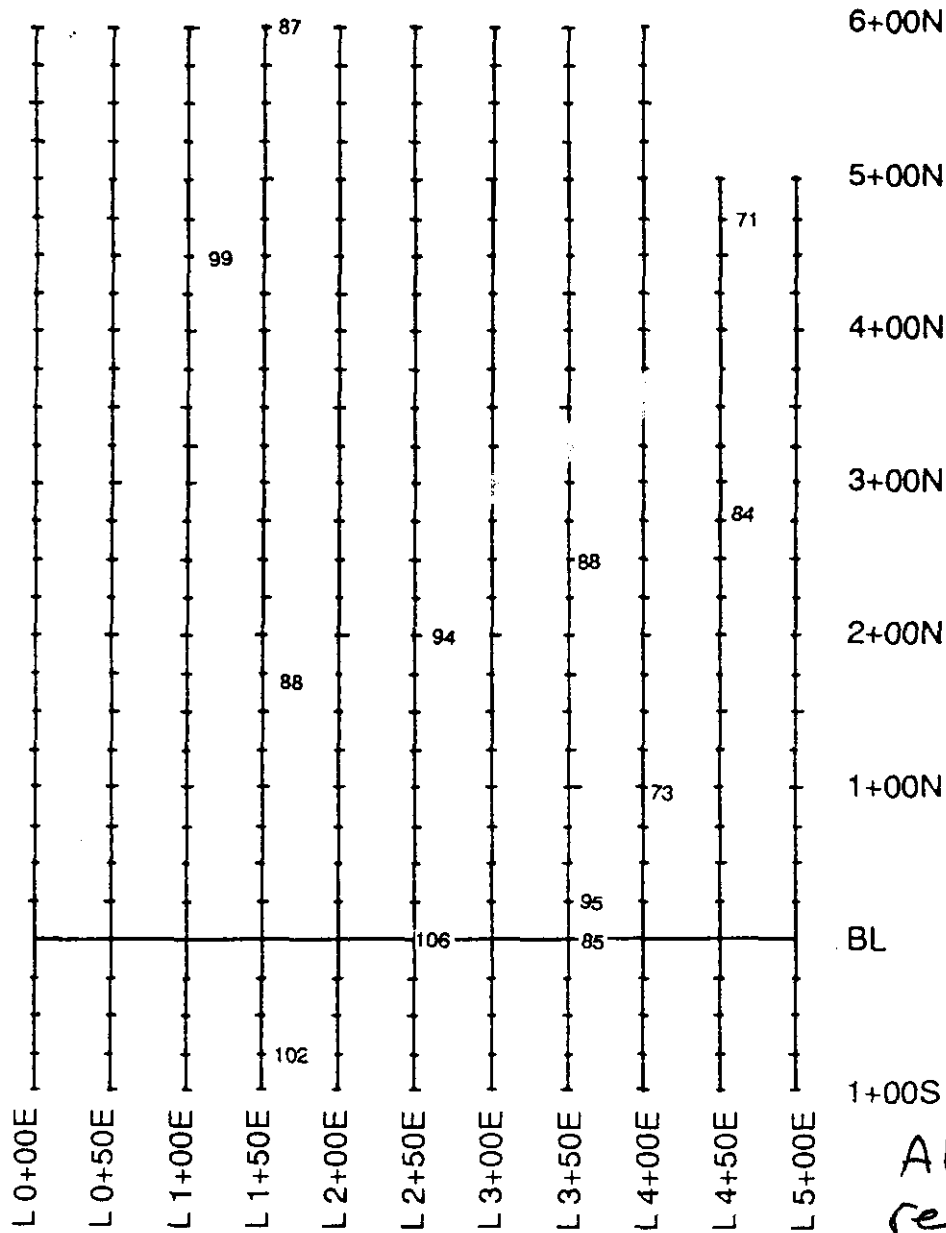
15+00 S

20+00 S



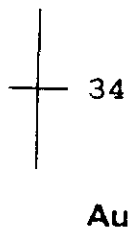
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REGEENA RESOURCES INC.		
DISCOVERY CLAIM GROUP		
SAMPLE LOCATIONS MAP IN SOIL LINES A & B		
NTS: 92-J/3	AUG 93	Fig 6a

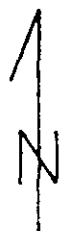


All geochem. results must be plotted  
T.K.

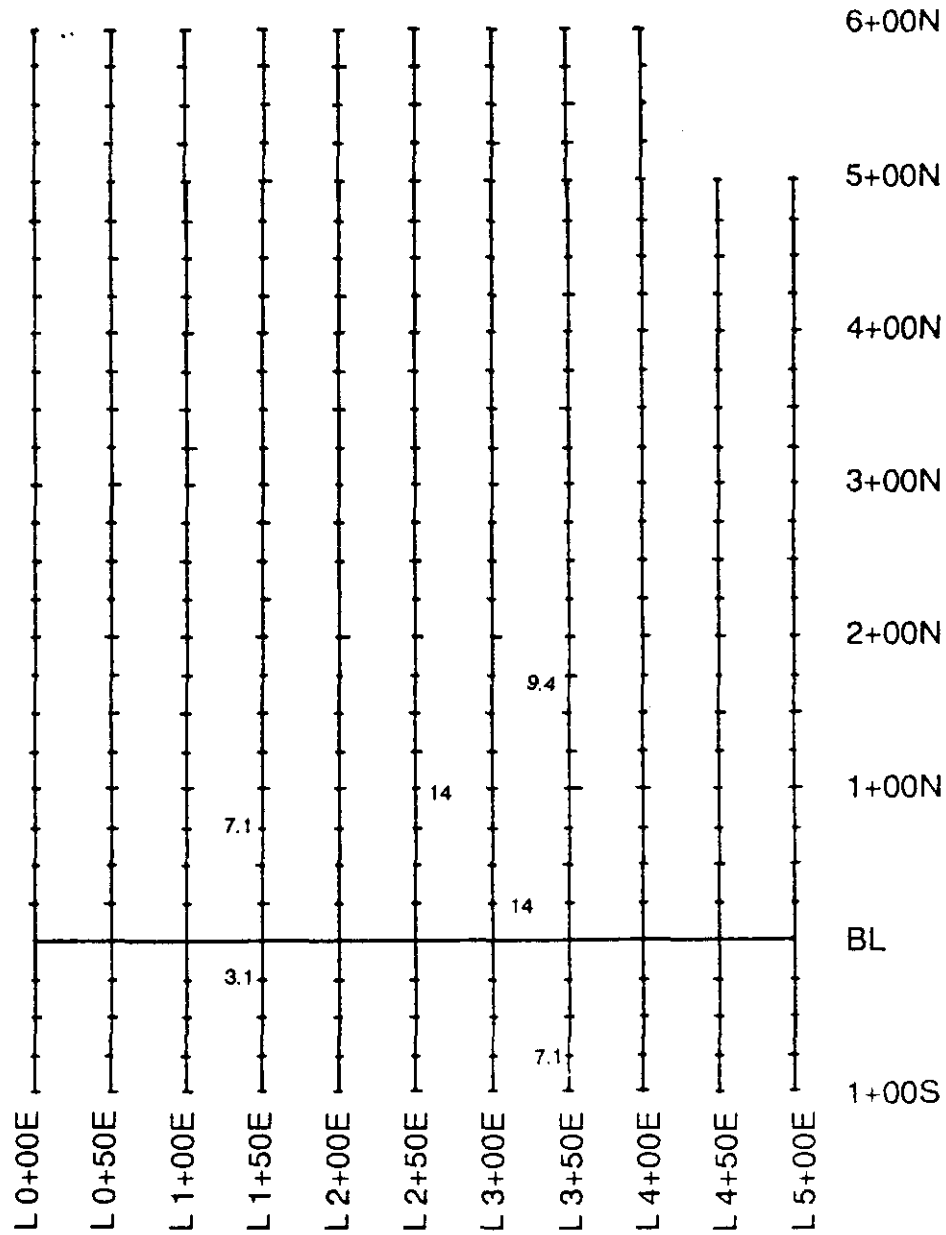
**LEGEND:**



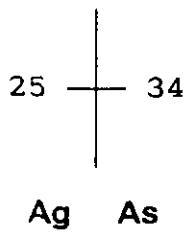
Scale: 1:5,000



REGEENA RESOURCES INC.		
DISCOVERY CLAIM GROUP		
GOLD ANOMALIES IN 1993 SOIL GRID		
NTS: 92-J/3	AUG 93	Fig 6b



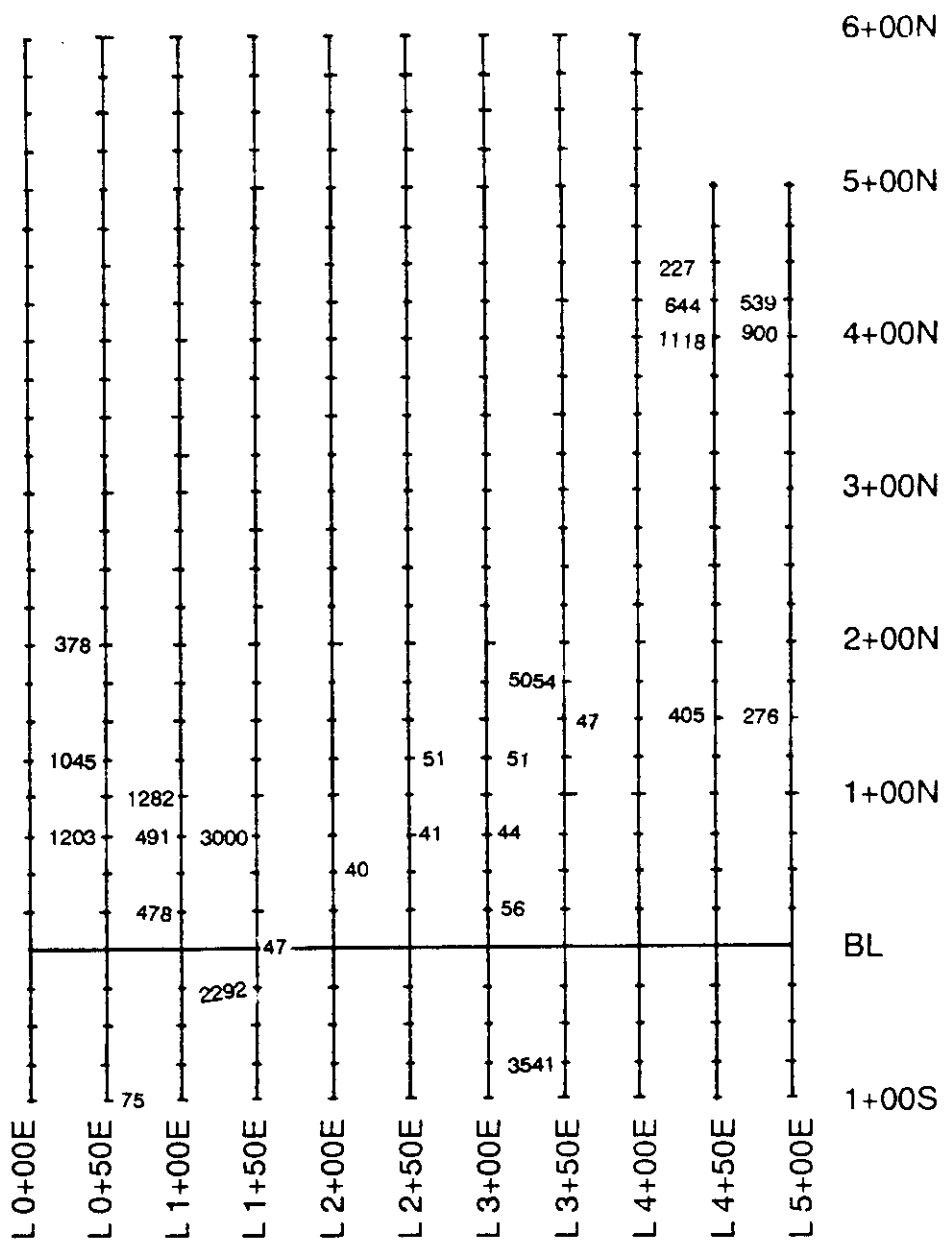
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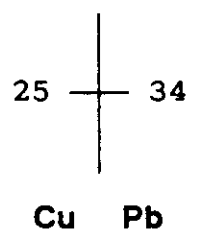
Scale: 1:5,000



REGEENA RESOURCES INC.		
DISCOVERY CLAIM GROUP		
SILVER & ARSENIC ANOMALIES		
IN 1993 SOIL GRID		
NTS: 92-J/3	AUG 93	Fig 6c



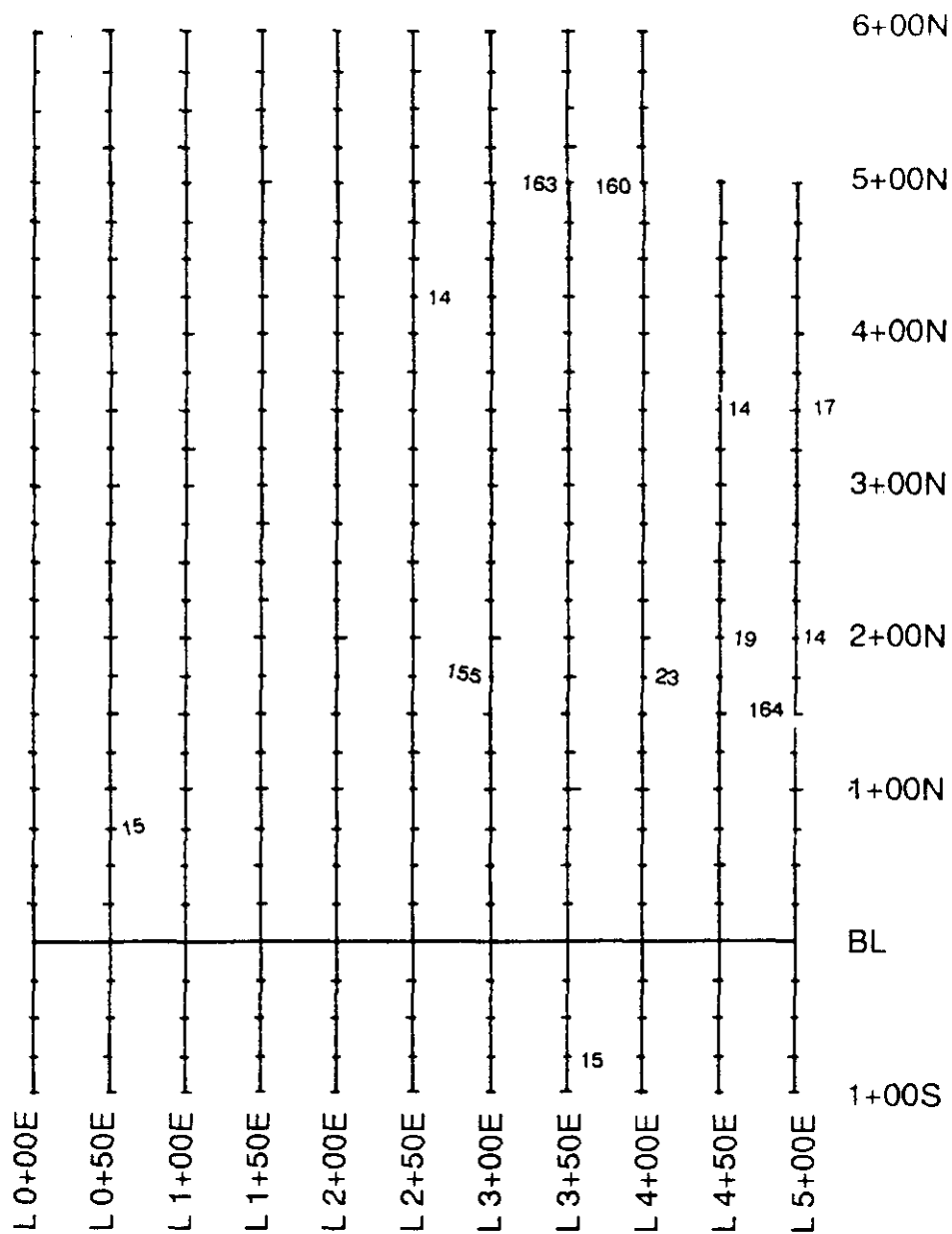
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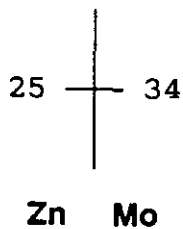
Scale: 1:5,000



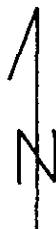
REGEENA RESOURCES INC.		
DISCOVERY CLAIM GROUP		
COPPER & LEAD ANOMALIES		
IN 1993 SOIL GRID		
NTS: 92-J/3	AUG 93	Fig 6d



**LEGEND:**



Scale: 1:5,000



REGEENA RESOURCES INC.		
DISCOVERY CLAIM GROUP		
ZINC & MOLYBDENUM ANOMALIES IN 1993 SOIL GRID		
NTS: 92-J/3	AUG 93	Fig 6e



LA LB  
0+00 S ————— Discovery I Northern  
Property Boundary

5+00 S

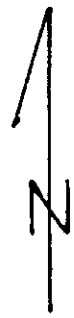
8+00 S

10+00 S

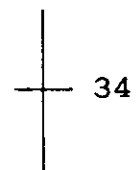
15+00 S

20+00 S

169



**LEGEND:**



34

Au

Scale: 1:10,000

REGEENA RESOURCES INC.		
DISCOVERY CLAIM GROUP		
GOLD ANOMALIES IN SOIL LINES A & B		
NTS: 92-J/3	AUG 93	Fig 6f

LA LB  
 0+00 S ————— Discovery I Northern  
 Property Boundary

5+00 S 40

8+00 S

10+00 S

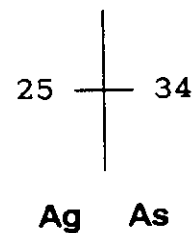
42  
 35  
 14

15+00 S

20+00 S



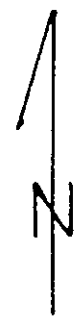
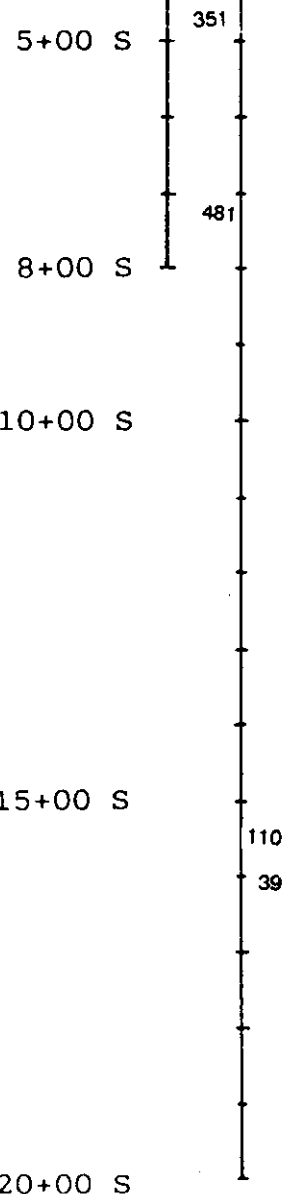
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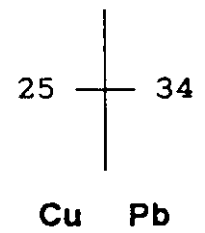
Scale: 1:10,000

REGEENA RESOURCES INC.		
DISCOVERY CLAIM GROUP		
SILVER & ARSENIC ANOMALIES IN SOIL LINES A & B		
NTS: 92-J/3	AUG 93	Fig 6g

LA LB  
0+00 S ————— Discovery I Northern  
Property Boundary



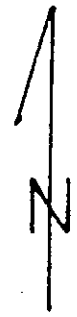
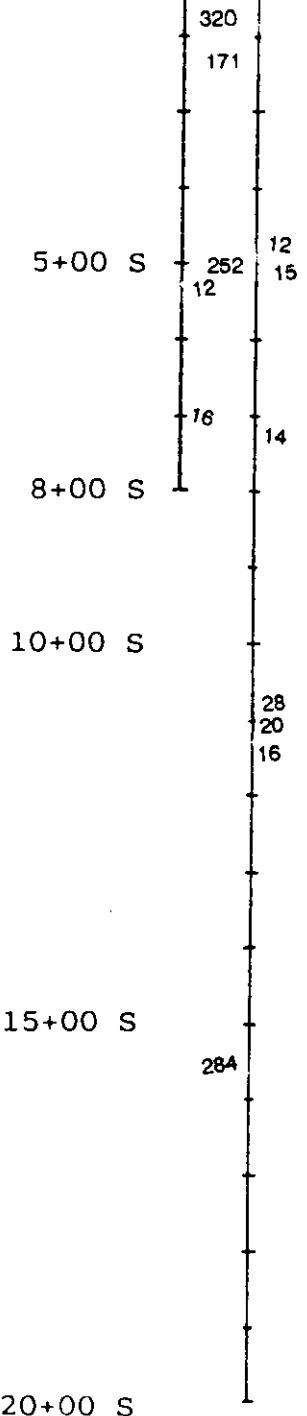
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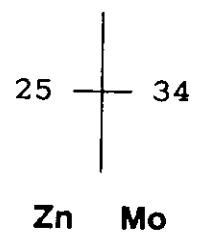
Scale: 1:10,000

REGEENA RESOURCES INC.		
DISCOVERY CLAIM GROUP		
COPPER & LEAD ANOMALIES IN SOIL LINES A & B		
NTS: 92-J/3	AUG 93	Fig 6h

LA LB  
 0+00 S ————— Discovery I Northern  
 Property Boundary



**LEGEND:**



Scale: 1:10,000

REGEENA RESOURCES INC.		
DISCOVERY CLAIM GROUP		
ZINC & MOLYBDENUM ANOMALIES IN SOIL LINES A & B		
NTS: 92-J/3	AUG 93	Fig 6i

Only six soil samples present multi-elements anomalies in the 1993 grid area:

- L 0+75N; 1+50E Ag: 7.1 ppm – Cu: 3,000 ppm – Mo: 15 ppm
- L 1+75N; 3+50E Ag: 9.4 ppm – Cu: 5,054 ppm – Mo: 23 ppm
- L 0+75S; 3+50E Ag: 7.1 ppm – Cu: 3,541 ppm – Mo: 15 ppm
- L 0+25S; 1+50E Ag: 3.1 ppm – Cu: 2,292 ppm
- L 0+25N; 3+00E Pb: 56 ppm – Zn: 14 ppm
- L 1+50N; 5+00E Cu: 276 ppm – Zn: 164 ppm

On Line B, on the other hand, seven soil samples show multi-elements anomalies:

- L B; 4+75S Cu: 351 ppm – Mo: 12 ppm
- L B; 5+00S Zn: 252 ppm – As: 40 ppm – Mo: 15 ppm
- L B; 7+25S Cu: 481 ppm – Mo: 14 ppm
- L B; 10+75S As: 42 ppm – Mo: 28 ppm
- L B; 11+00S As: 35 ppm – Mo: 20 ppm
- L B; 11+25S As: 14 ppm – Mo: 16 ppm
- L B; 15+50S Au: 169 ppb – Pb: 110 ppm – Zn: 284 ppm

These encouraging results warrant additional geochemical surveys in the eastern property area. The 1993 grid should be extended to the west and to the south to connect the latter with the 1988 East Grid as well as with the 1993 Lines A & B. Detailed geological mapping and geophysical surveys (Magnetometer and VLF-EM) should be conducted over the entire grid in order to determine the source of the anomalies delineated during the present exploration programme.

## **5. TRENCHING PROGRAMME**

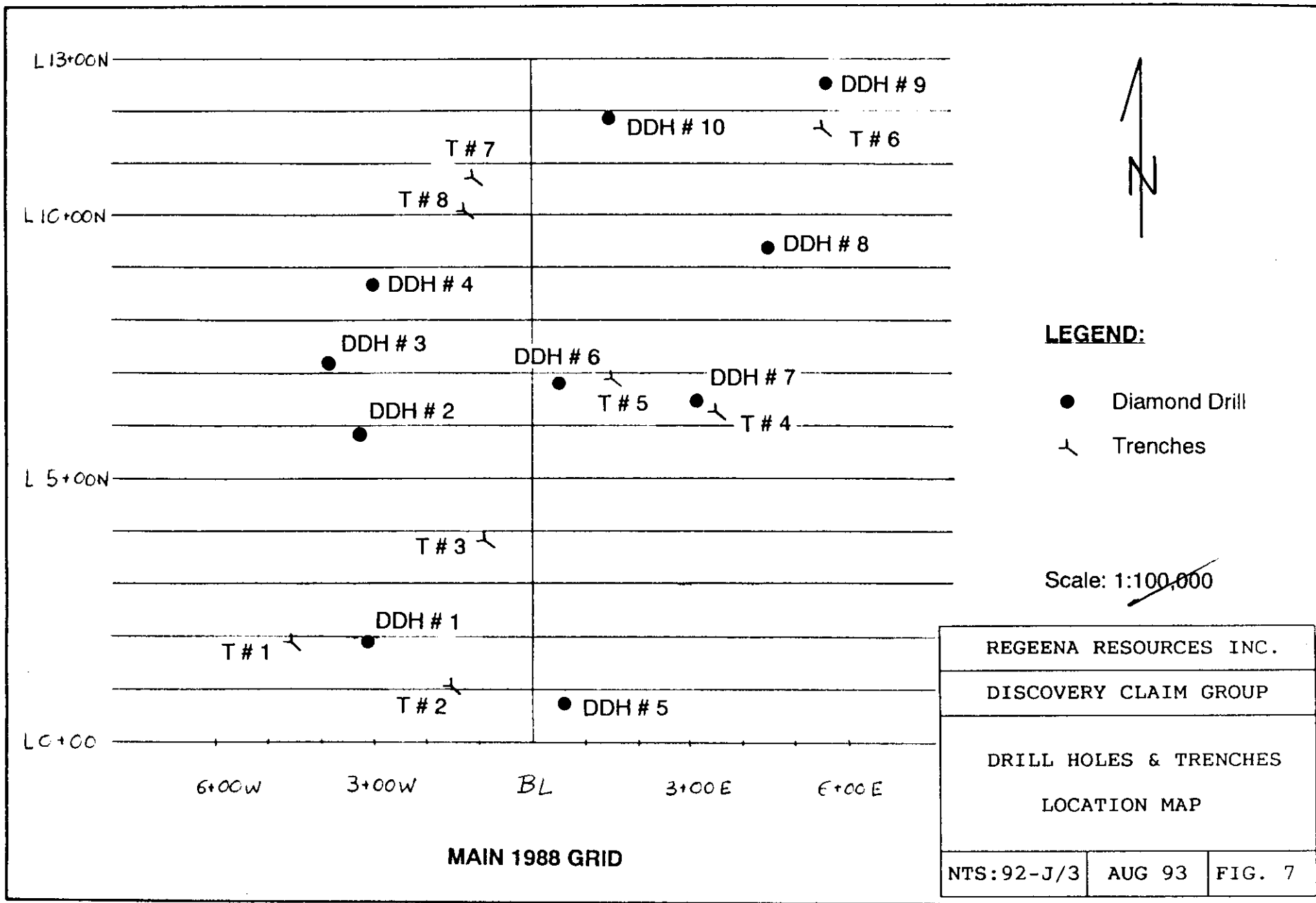
The trenching programme encompassed eight trenches which were dug in order to test soil and geophysical anomalies delineated during the previous work programs (1988). Table 2 will list the physical data of the trenches and their location can be found on Figure 7.

**Table 2: Trenches' Physical Data**

<u>Trench Nb</u>	<u>Grid Coordinates</u>		<u>Length</u>	<u>Width</u>	<u>Depth</u>
T # 1	4+54W	1+90N	1.3 m	0.5 m	
T # 2	1+50W	1+05N	9.8 m	0.5 m	1.8 m
T # 3	0+92W	3+79N	12.4 m	0.5 m	2.2 m
T # 4	3+51E	6+31N	23.0 m	0.5 m	4.0 m
T # 5	1+46E	6+98N	35.0 m	0.5 m	3.9 m
T # 6	5+42E	11+68N	17.0 m	1.0 m	4.0 m
T # 7	1+11W	10+70N	15.0 m	1.0 m	0.8 m
T # 8	1.20W	10+50N	21.0 m	0.5 m	2.3 m

Six channel samples were collected from the trenches that reached bedrock and were analyzed for the following elements: gold, silver, arsenic, copper, lead, zinc, and antimony (only four samples were analyzed for Sb). Bedrock was not reached in trenches 5 and 6. Analytical data can be found in Appendix II-B. Due to the limited extent of the sampling, no statistical data have been calculated.

Only the sample collected in trench # 4 presents a slight gold anomaly (40 ppb). It shows also a weak zinc enhancement (215 ppm). A weak above background value in copper (208 ppm) was detected in trench # 7. Background values were noted for all of the elements in this sampling programme.



REGEENA RESOURCES INC.		
DISCOVERY CLAIM GROUP		
DRILL HOLES & TRENCHES LOCATION MAP		
NTS: 92-J/3	AUG 93	FIG. 7

## **6. DRILLING PROGRAMME**

The drilling contractors were Tex Drilling Ltd. of Kamloops, British Columbia. This company triconed through the overburden and reamed casing into bedrock. The bedrock was then cored with a BQ diamond bit.

Ten holes were drilled in the 1988 Main Grid area of the Regeena Resources Inc. property (Fig. 7) to test soil and geophysical anomalies delineated during the 1988 exploration programme. A total of 510.65 meters (1,675.5 feet) were drilled on the claims, consisting of 67.05 meters (220 feet) of triconed overburden and 443.60 meters (1,455.5 feet) of drilled core. All of the core boxes are stored on the property.

Forty-two core samples were collected and all of the samples were submitted to International Plasma Laboratory Ltd. (IPL), in Vancouver, British Columbia for gold, silver, arsenic, antimony, copper, lead, and zinc analysis. Analytical data for the core samples are reported in Appendix II-C. Due to the limited extent of the sampling, statistical treatment of data was not conducted on the core samples.

The diamond drill holes are summarized below and in Table 3. Diamond Drill Logs are presented in Appendix III.

**Table 3: Diamond Drill Hole Locations**

<u>DDH #</u>	<u>Grid Coordinates</u>		<u>Azimuth/Dip</u>	<u>Depth (m/ft)</u>
1	3+18W	1+95N	273°N/-45°	50.90/167
2	3+26W	5+79N	269°N/-45°	47.25/155
3	3+97W	7+16N	290°N/-45°	50.90/167
4	3+02W	8+70N	310°N/-45°	45.70/150
5	0+63E	0+82N	270°N/-60°	45.85/157
6	0+45E	6+90N	280°N/-60°	53.35/175
7	3+10E	6+45N	291°N/-60°	50.90/167
8	4+35E	9+28N	270°N/-45°	50.90/167
9	5+57E	12+50N	275°N/-45°	17.70/58 (O/B)
10	1+50E	11+83N	290°N/-45°	47.85/157



**DDH: 93-1**

Bedrock consisted mainly of greenstone of volcanic origin (presumably andesitic composition) with numerous pervasive quartz-carbonate veinlets and seams. The presence of slightly brecciated zones was also noted. Alteration was chlorite, serpentine, and epidote. Mineralization consisted of pyrite and in a lesser amount chalcopyrite. Two samples were collected and geochemical values show a zinc anomaly (503 ppm in sample 13252).

**DDH: 93-2**

Bedrock consisted of a succession of greenstone and schist. Alteration was chlorite, serpentine, and epidote in the greenstone. Sulphides were present in both the greenstone and the schist. Two samples were collected and geochemical values present a gold anomaly in sample 13255 (Au: 146 ppb) collected in a serpentinized greenstone.

**DDH: 93-3**

Bedrock consisted of a succession of andesitic volcanics and schists. The presence of a small zone of quartz diorite was noted (34.15m to 35.35m). Alteration consisted mainly of epidote and sulphides (mainly pyrite) were also present in all of the recorded rock types. One sample was collected in the volcanics which showed a slight gold enhancement (60 ppb Au).

**DDH: 93-4**

Bedrock consisted of a succession of greenstone and schist, with the greenstone more prominent. Alteration consisted mainly of chlorite and epidote and sulphides (generally pyrite, and chalcopyrite in a lesser amount) were present in various amounts. One sample was collected in the greenstone and the assay values did not present any anomalies.

**DDH: 93-5**

Bedrock consisted mainly of various types of greenstone of volcanic composition. Epidotization was pervasive and sulphides were present in various amounts. Six samples were collected in this hole. Enhanced gold values were found in all of the samples (values ranging from 22 ppb to 162 ppb). In addition, two samples presented multi-elements anomalies:

- 13259     Au: 124 ppb - Ag: 1.8 ppm - Pb: 3,998 ppm - Zn: 339 ppm

- 13260 Au: 162 ppb - Pb 776 ppm - Zn 247 ppm

Sample 13259 was collected in an andesitic greenstone, whereas sample 13260 was collected in an aphanitic mudstone of probable volcanic origin.

**DDH: 93-6**

Bedrock consisted of a succession of greenstone and schist, with the greenstone more prominent. Alteration consisted mainly of chlorite and epidote and sulphides (generally pyrite, and chalcopyrite in a lesser amount) were present in various amounts. Ten samples were collected and only a gold anomaly was detected in sample 13266 (373 ppb Au) which was taken in fine grained schist containing about 1-3% of pyrite.

**DDH: 93-7**

Bedrock consisted of an alternance of andesitic greenstone and schist. Nine samples were collected. A anomalous gold value (110 ppb Au) was noted in sample 13269 which also showed copper enhancement (420 ppm Cu). Alteration was mainly chlorite and epidote and sulphides (pyrite and traces of galena) were present in each rock type.

**DDH: 93-8**

Bedrock consisted of a succession of andesitic greenstone and schist, where the schist was prevalent. Epidote, serpentine and chlorite alteration was noted and sulphides (mainly pyrite) were present in various amounts. Five samples were collected and anomalous gold values were detected only in sample 13271 (132 ppb Au), which was collected in a schist.

**DDH: 93-9**

Due to mechanical problems, this hole was abandoned. Bedrock was not reached and no samples were collected.

**DDH: 93-10**

Bedrock showed an alternance of schist and greenstone. Alteration consisted mainly of epidote and chlorite and pyrite was the main sulphide noted. Five samples were collected and only sample 13262 returned a multi-elements anomaly: Au: 414 ppb, Ag: 4.4 ppm, and Zn 330 ppm. This sample was taken in a schist containing approximately 2-3% sulphides.

Very interesting intersections were noted in the diamond drill holes bored in the 1988 Main Grid area. However, in the light of the recent drilling results obtained by La Rock Mining Corp. (Aug. 1993) on their adjacent Brandywine Property – "that an average of 0.23 oz Au/ton was found over 73 feet. Within that 73 feet zone, assay values as high as 2.228 oz Au/ton, 1.29 oz Ag/ton, 4.07% lead and 5.17% zinc were present" – it appears that the Regeena Resources Inc. property may have the potential of hosting similar mineralization. The above mentioned values were intersected between approximately 55 meters (180 feet) and 75 meters (250 feet) which suggest that deeper holes should be drilled on the Discovery Property. Additional drilling is therefore warranted and recommended in the western property area in order to intersect the extent of the La Rock Mining Corp. mineralization.

## **7. CONCLUSIONS AND RECOMMENDATIONS**

The Regeena Resources Inc. Property, which consists of 34 metric units, lies approximately 10 kilometers southwest of Whistler and 85 kilometers north of Vancouver, British Columbia, in the Vancouver Mining Division.

Exploration in the Callaghan Creek–Brandywine Creek area is known since the early 1920's when mineral occurrences were discovered on a small tributary of Brandywine Creek. In the 1970's the Warman Property, which is adjacent to the Discovery Claim Group to the northeast, was developed by Northair Mines Ltd. The Northair Mines, which production occurred from 1976 to 1982, milled approximately 345,700 tons of ore yielding 166,582 ounces of gold and 845,854 ounces of silver. Production was suspended in 1982 due to the economic situation with reserves reported (February 28, 1982) at 67,236 tons of ore averaging 0.25 oz Au/ton, 0.77 oz Ag/ton, 1.25% lead and 1.90% zinc. On the La Rock Mining Corp. Property, located immediately southwest of the Discovery Property, recent drilling activities (1993) led to the discovery of massive sulphides and visible gold in the drill intersections. The Market News Publishing Inc. reports (Aug. 10, 1993) that an average of 0.23 oz Au/ton was found over 73 feet. Within that 73 feet zone, assay values as high as 2.228 oz Au/ton, 1.29 oz Ag/ton, 4.07% lead and 5.17% zinc were present.

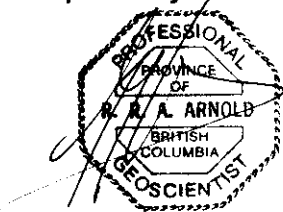
The 1993 exploration programme conducted on the Discovery Property, consisting of soil sampling, trenching and diamond drilling, has been successful in defining a number of multi-element soil geochemical anomalies and in recording very encouraging precious and base metals anomalous values in the drill intersections. Based on these results, the writer concludes that the subject claims have the potential to host precious and/or base metal mineralization similar in nature to the one found in the adjacent properties of Northair Mines to the north and La Rock Mining to the southwest.

In order to fully evaluate the mineral and economic potential of the Regeena Resources Inc. Discovery Property, a multi-phase exploration programme is recommended.

Phase I should consist of extending the 1993 soil grid to the South and to the West, lithological geochemical sampling on the above mentioned extension, detailed geological mapping, and geophysical surveys (Magnetometer and VLF-EM) on the entire grid. In addition, deeper diamond drill holes (in the order of 75 meters/250 feet) should be bored in the western portion of the property to determine if the mineralization delineated at depth on the adjacent La Rock Mining Corp. property is extending on the subject claims.

Depending upon positive results from the above exploration programme and upon a review of data, a trenching programme coupled with a selective diamond drilling programme should be designed to determine the source and extent of the geophysical and geochemical anomalies. In addition, a systematic diamond drilling programme should be established to define the geometry and grade characteristics of any identified mineralization.

Respectfully submitted



Robert R. Arnold, M.Sc., P. Geo.

August 22, 1993

## **8. SELECTED BIBLIOGRAPHY**

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Geochemical, Geological and Geophysical Report on Discovery Claim Group, Vancouver Mining Division, Callaghan Creek Area, British Columbia. Private Report for Hadley Resources Inc.

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Roddick, J.A., and Woodsworth, G.J. (1975)

Coast Mountains Project: Pemberton (92-J West Half) Map Area, British Columbia. Geol. Surv., Canada, Paper 75-1, Pt. A., pp. 37-40.

Woodsworth, G.J. (1977)

Pemberton Geology Map (92-J), Scale 1:250,000.

## **9. STATEMENT OF COSTS**

### **FIELD WORK (April 20, 1993 – July 20, 1993)**

Project Preparation (4 days @ \$ 200.00/day)	\$ 800.00
Mobilization/Demobilization (2 days)	\$ 1,104.00
Trenching, Drill Sites and Road Preparation	\$ 33,998.50
Diamond Drill (464 meters)	\$ 21,994.06
Geochemistry	\$ 5,835.78
Trucks Rental (48 days @ \$ 67.00/day)	\$ 3,216.00
Domicile	\$ 3,187.96
Field Supplies	\$ 1,423.54
Equipment Rental	\$ 1,130.00
Communications	\$ 84.37
Report Preparation, Drafting	\$ 3,108.79
Reclamation	\$ 649.80
Personnel:	
Project Geologist (29.5 days @ \$ 200.00/day)	\$ 5,900.00
Geol. Technicians (122 man-days @ 120.00/day)	\$ 14,640.00
Supervisor (20 days @ \$ 200.00/day)	\$ 4,000.00
Management Fees	\$ <u>1,185.00</u>
<b>TOTAL</b>	<b><u>\$ 102,257.80</u></b>

**APPENDIX I**

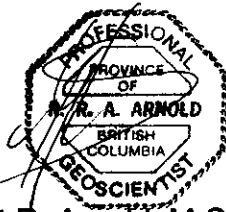
**STATEMENT OF QUALIFICATIONS**

## STATEMENT OF QUALIFICATIONS

I, ROBERT R. ARNOLD, of 1227 Caledonia Avenue, in the District of North Vancouver, in the Province of British Columbia, hereby certify:

1. THAT I am a geologist residing at 1227 Caledonia Avenue, in the District of North Vancouver, in the Province of British Columbia.
2. THAT I obtained a Bachelor of Science degree in Geology from the University of Geneva, Switzerland, in 1976 and a Master of Science degree in Geological Engineering, from the same university in 1978.
3. THAT I am a Registered Professional Geologist, in good standing, of the Association of Professional Engineers, Geologists and Geophysicists of Alberta since 1981, and a Professional Geoscientist of the Association of Professional Engineers and Geoscientists of British Columbia since 1992.
4. THAT I have been practising my profession as a geologist in Western Europe, West Africa, Southeast Asia and North America, both permanently since 1978 and seasonally since 1971.
5. THAT I have not received, nor do I expect to receive any interests, direct or indirect, or contingent in the securities or properties of Regeena Resources Inc. and that I am independent of all the vendors; and that I am not an insider of any company having interest in the Mineral Claims which are the subject of this report, or any other claims within a radius of 10 kilometers.
6. THAT I have personally visited the subject property during the Summer of 1993.

Dated in North Vancouver, British Columbia, this 22nd day of August, 1993.



Robert R. Arnold, M.Sc., P. Geo



**APPENDIX II**

**ANALYTICAL DATA FOR GEOCHEMICAL SAMPLES**

**APPENDIX II-A**

**ANALYTICAL DATA FOR SOIL SAMPLES**



CERTIFICATE OF ANALYSIS  
iPL 93E1302

16 Co Stn  
Vancouver, B.C.  
Canada V5Y 3E1  
Phone (604) 879-7878  
Fax (604) 879-7897

Client: Bush Resources Ltd.  
Project: Discovery Property

415 Soil

iPL: 93E1302 M

In: May 13, 1993  
Out: May 19, 1993

Page 1 of 11

Section 1 of 1  
Certified BC Assayer: David Chiu

Sample Name	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Mo ppm	Sample Name	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Mo ppm		
BL 0+00E	S	32	0.1	16	27	63	<5	3	L 3+50N 0+50E	S	<5	<0.1	15	11	51	<5	2
L 0+25N 0+00E	S	9	<0.1	28	20	72	<5	1	L 3+75N 0+50E (A)	S	29	<0.1	16	3	66	<5	2
L 0+50N 0+00E	S	6	<0.1	21	15	86	<5	2	L 3+75N 0+50E (B)	S	55	<0.1	10	9	50	<5	1
L 0+75N 0+00E	S	<5	<0.1	40	<2	66	<5	1	L 4+25N 0+50E	S	5	<0.1	12	5	50	<5	1
L 1+00N 0+00E	S	20	<0.1	10	6	85	<5	1	L 4+50N 0+50E	S	53	<0.1	43	9	107	<5	3
L 1+25N 0+00E	S	7	0.1	19	10	70	<5	1	L 4+75N 0+50E	S	<5	<0.1	21	4	63	<5	3
L 1+50N 0+00E	S	6	<0.1	13	9	54	<5	4	L 5+00N 0+50E	S	26	<0.1	24	11	73	<5	4
L 1+75N 0+00E	S	35	0.1	39	7	62	<5	1	L 5+25N 0+50E	S	12	<0.1	38	16	80	<5	4
L 2+00N 0+00E	S	<5	2.1	12	8	35	<5	2	L 5+50N 0+50E	S	15	<0.1	24	9	92	<5	3
L 2+25N 0+00E	S	10	<0.1	22	4	39	<5	2	L 5+75N 0+50E	S	<5	<0.1	23	12	77	<5	3
L 2+50N 0+00E	S	19	<0.1	31	8	74	<5	2	L 6+00N 0+50E	S	<5	<0.1	22	15	90	<5	4
L 2+75N 0+00E	S	55	<0.1	11	12	45	<5	2	BL 1+00E	S	17	<0.1	23	10	76	<5	2
L 3+00N 0+00E	S	<5	<0.1	31	5	52	<5	2	L 0+25N 1+00E	S	<5	<0.1	478	11	69	<5	2
L 3+25N 0+00E	S	<5	<0.1	40	5	79	<5	4	L 0+50N 1+00E	S	17	<0.1	15	8	96	<5	2
L 3+50N 0+00E	S	6	<0.1	15	10	50	<5	2	L 0+75N 1+00E	S	34	<0.1	491	12	60	<5	4
L 3+75N 0+00E	S	<5	<0.1	15	6	46	<5	2	L 1+00N 1+00E	S	41	1.2	1282	14	75	<5	5
L 4+00N 0+00E	S	5	<0.1	8	12	45	<5	2	L 1+25N 1+00E	S	6	<0.1	31	13	80	<5	1
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L 5+50N 0+00E	S	22	<0.1	25	7	91	<5	3	L 2+75N 1+00E	S	<5	<0.1	20	7	38	5	4
L 5+75N 0+00E	S	<5	<0.1	23	9	101	<5	5	L 3+00N 1+00E	S	<5	<0.1	35	6	62	<5	2
L 6+00N 0+00E	S	<5	<0.1	15	8	63	<5	5	L 3+25N 1+00E	S	40	<0.1	18	5	74	<5	2
BL 0+50E	S	7	<0.1	19	10	71	<5	2	L 3+50N 1+00E	S	7	<0.1	11	8	63	<5	1
L 0+25N 0+50E	S	9	<0.1	32	9	84	<5	<1	L 3+75N 1+00E (A)	S	<5	<0.1	6	10	29	<5	1
L 0+50N 0+50E	S	12	<0.1	9	10	83	<5	2	L 3+75N 1+00E (B)	S	10	<0.1	6	9	39	<5	1
L 0+75N 0+50E	S	6	<0.1	1203	9	69	<5	3	L 4+25N 1+00E	S	19	<0.1	7	5	39	<5	1
L 1+00N 0+50E	S	10	<0.1	16	12	32	<5	2	L 4+50N 1+00E	S	99	<0.1	18	9	79	<5	1
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L 1+50N 0+50E	S	18	<0.1	15	10	61	<5	5	L 5+10N 1+00E	S	7	<0.1	29	5	70	5	2
L 1+75N 0+50E	S	25	<0.1	33	6	80	<5	1	L 5+25N 1+00E	S	25	<0.1	28	10	88	<5	2
L 2+00N 0+50E	S	31	<0.1	978	11	78	<5	4	L 5+50N 1+00E	S	10	<0.1	30	11	76	<5	3
L 2+25N 0+50E	S	13	<0.1	35	7	50	<5	2	L 5+75N 1+00E	S	38	<0.1	35	15	100	<5	4
L 2+50N 0+50E	S	<5	<0.1	17	8	26	<5	2	L 6+00N 1+00E	S	18	<0.1	22	10	65	<5	6
L 2+75N 0+50E	S	<5	<0.1	9	9	31	<5	2	BL 1+50E	S	48	<0.1	34	47	71	<5	2
L 3+00N 0+50E	S	19	<0.1	34	4	67	<5	2	L 0+25N 1+50E	S	67	<0.1	39	26	79	<5	1
L 3+25N 0+50E	S	<5	<0.1	24	7	48	<5	2	L 0+50N 1+50E	S	62	<0.1	35	28	125	<5	2

Min Limit 5 0.1 1 2 1 5 1

Max Reported\* 9999 99.9 20000 20000 20000 9999 9999

Method FAAA ICP ICP ICP ICP ICP ICP

5 0.1 1 2 1 5 1

9999 99.9 20000 20000 20000 9999 9999

FAAA ICP ICP ICP ICP ICP ICP

--No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate



CERTIFICATE OF ANALYSIS  
IPL 93E1302

30-60-100 Stn  
Vancouver BC  
Canada V5Y 3E1  
Phone (604) 879-7878  
Fax (604) 879-7898

Client: Bush Resources Ltd.  
Project: Discovery Property 415 Soil

IPL: 93E1302 M

In: May 13, 1993  
Out: May 19, 1993

Page 3 of 11

Section 1 of 1  
Certified BC Assayer: David Chiu

Sample Name	Au	Ag	Cu	Pb	Zn	As	Mo	Sample Name	Au	Ag	Cu	Pb	Zn	As	Mo		
	ppb	ppm	ppm	ppm	ppm	ppm	ppm		ppb	ppm	ppm	ppm	ppm	ppm	ppm		
L 0+75N 1+50E	\$	43	7.1	3000	27	89	<5	15	L 4+25N 2+00E	\$	<5	<0.1	17	11	47	<5	4
L 1+00N 1+50E	\$	29	<0.1	35	17	55	<5	1	L 4+50N 2+00E	\$	7	<0.1	132	13	116	<5	5
L 1+25N 1+50E	\$	40	<0.1	32	11	95	<5	2	L 4+75N 2+00E	\$	<5	<0.1	70	13	96	<5	6
L 1+50N 1+50E	\$	20	<0.1	40	13	75	<5	2	L 5+00N 2+00E	\$	8	<0.1	110	13	120	<5	5
L 1+75N 1+50E	\$	88	<0.1	37	8	73	<5	2	L 5+25N 2+00E	\$	6	<0.1	70	12	93	<5	7
L 2+00N 1+50E	\$	9	<0.1	43	13	71	<5	1	L 5+50N 2+00E	\$	40	<0.1	99	18	64	<5	8
L 2+25N 1+50E	\$	20	<0.1	37	8	75	<5	2	L 5+75N 2+00E	\$	<5	<0.1	104	15	66	<5	6
L 2+50N 1+50E	\$	32	<0.1	39	8	80	<5	2	L 6+00N 2+00E	\$	12	<0.1	79	17	79	<5	8
L 2+75N 1+50E	\$	50	<0.1	33	10	74	<5	1	BL 2+50E	\$	106	<0.1	23	29	74	<5	1
L 3+00N 1+50E	\$	18	<0.1	35	9	77	<5	2	L 0+25N 2+50E	\$	58	0.3	29	24	75	10	2
L 3+25N 1+50E	\$	67	<0.1	24	19	62	<5	2	L 0+75N 2+50E	\$	35	0.4	62	41	87	9	1
L 3+50N 1+50E	\$	7	<0.1	24	14	58	<5	2	L 1+00N 2+50E	\$	16	<0.1	35	30	94	14	2
L 3+75N 1+50E	\$	<5	<0.1	16	18	49	<5	10	L 1+25N 2+50E	\$	64	<0.1	74	51	101	5	2
L 4+00N 1+50E	\$	7	<0.1	19	18	67	<5	4	L 1+50N 2+50E	\$	<5	<0.1	22	27	75	<5	1
L 4+25N 1+50E	\$	12	<0.1	20	15	51	<5	3	L 1+75N 2+50E	\$	<5	0.3	25	23	78	<5	2
L 4+50N 1+50E	\$	<5	<0.1	71	10	79	<5	4	L 2+00N 2+50E	\$	94	<0.1	27	15	92	<5	1
L 4+75N 1+50E	\$	6	<0.1	88	15	101	<5	5	L 2+25N 2+50E	\$	25	<0.1	27	19	83	<5	1
L 5+00N 1+50E	\$	<5	<0.1	65	9	80	<5	10	L 2+50N 2+50E	\$	26	<0.1	16	17	55	<5	2
L 5+25N 1+50E	\$	<5	<0.1	47	14	73	<5	3	L 2+75N 2+50E	\$	<5	0.4	17	27	49	<5	3
L 5+50N 1+50E	\$	16	<0.1	85	13	69	<5	5	L 3+00N 2+50E	\$	<5	<0.1	10	19	62	<5	2
L 5+75N 1+50E	\$	9	<0.1	109	22	53	6	10	L 3+25N 2+50E	\$	<5	<0.1	24	23	66	5	10
L 6+00N 1+50E	\$	87	<0.1	87	16	84	6	6	L 3+50N 2+50E	\$	8	<0.1	27	16	76	<5	7
BL 2+00E	\$	13	<0.1	55	37	88	<5	2	L 3+75N 2+50E	\$	5	<0.1	45	18	62	<5	5
L 0+25N 2+00E	\$	8	<0.1	33	27	72	<5	1	L 4+00N 2+50E	\$	14	<0.1	73	27	102	<5	5
L 0+50N 2+00E	\$	21	0.8	38	40	123	<5	2	L 4+25N 2+50E	\$	34	0.8	105	17	103	8	14
L 0+75N 2+00E	\$	18	<0.1	57	37	102	9	2	L 4+50N 2+50E	\$	19	<0.1	96	14	114	<5	8
L 1+00N 2+00E	\$	6	<0.1	46	26	92	<5	2	L 4+75N 2+50E	\$	25	<0.1	68	17	74	<5	7
L 1+25N 2+00E	\$	<5	<0.1	39	17	72	<5	1	L 5+00N 2+50E	\$	27	<0.1	169	18	101	<5	4
L 1+50N 2+00E	\$	10	<0.1	28	17	67	<5	1	L 5+25N 2+50E	\$	5	<0.1	107	16	93	<5	4
L 1+75N 2+00E	\$	<5	<0.1	37	15	73	<5	2	L 5+50N 2+50E	\$	12	<0.1	84	15	73	6	5
L 2+00N 2+00E	\$	40	<0.1	43	14	73	<5	2	L 5+75N 2+50E	\$	7	<0.1	93	16	90	5	4
L 2+25N 2+00E	\$	6	<0.1	38	16	81	<5	1	L 6+00N 2+50E	\$	6	<0.1	81	17	94	5	4
L 2+50N 2+00E	\$	7	<0.1	37	13	66	<5	1	BL 3+00E	\$	21	<0.1	33	33	87	<5	1
L 2+75N 2+00E	\$	<5	<0.1	36	16	74	<5	2	L 0+25N 3+00E	\$	34	<0.1	61	56	99	14	1
L 3+00N 2+00E	\$	5	<0.1	32	15	67	<5	2	L 0+75N 3+00E	\$	10	<0.1	38	44	77	<5	2
L 3+25N 2+00E	\$	6	<0.1	24	19	72	<5	2	L 1+00N 3+00E	\$	35	<0.1	64	36	118	10	1
L 3+50N 2+00E	\$	<5	<0.1	33	13	70	5	3	L 1+25N 3+00E	\$	28	<0.1	64	51	100	8	2
L 3+75N 2+00E	\$	6	<0.1	21	12	64	<5	4	L 1+50N 3+00E	\$	<5	<0.1	12	20	100	<5	2
L 4+00N 2+00E	\$	<5	<0.1	19	15	55	<5	4	L 1+75N 3+00E	\$	<5	<0.1	27	13	155	7	2

Min Limit 5 0.1 1 2 1 5 1 5 0.1 1 2 1 5 1  
 Max Reported\* 9999 99.9 20000 20000 20000 9999 9999 9999 99.9 20000 20000 20000 9999 9999  
 Method FAAA ICP ICP ICP ICP ICP ICP FAAA ICP ICP ICP ICP ICP ICP  
 ---No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined =Estimate/1000 %Estimate % Max=No Estimate  
 International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



CERTIFICATE OF ANALYSIS  
IPL 93E1302

36 Co. 1 St.  
Vancouver BC  
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Phone (604) 879-7878  
Fax (604) 879-7878

Client: Bush Resources Ltd.  
Project: Discovery Property

415 Soil

IPL: 93E1302 M

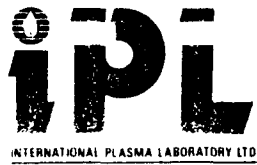
In: May 13, 1993  
Out: May 19, 1993

Page 5 of 11

Section 1 of 1  
Certified BC Assayer: David Chiu

Sample Name	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Mo ppm	Sample Name	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Mo ppm
L 2+00N 3+00E	\$ 36	<0.1	23	17	93	<5	1	L 5+75N 3+50E	\$ 19	<0.1	18	13	76	6	2
L 2+25N 3+00E	\$ 46	<0.1	36	21	102	<5	2	L 6+00N 3+50E	\$ 6	<0.1	19	14	81	<5	2
L 2+50N 3+00E	\$ 16	0.2	16	25	58	<5	3	BL 4+00E	\$ 35	0.1	42	12	71	<5	1
L 2+75N 3+00E	\$ 10	<0.1	9	18	60	<5	2	L 0+25N 4+00E	\$ 24	<0.1	27	12	62	<5	1
L 3+00N 3+00E	\$ 50	0.3	19	28	52	<5	3	L 0+50N 4+00E	\$ 20	<0.1	12	15	63	<5	1
L 3+25N 3+00E	\$ 34	<0.1	43	17	82	<5	7	L 0+75N 4+00E	\$ 13	<0.1	19	14	52	<5	1
L 3+50N 3+00E	\$ 35	<0.1	23	15	66	<5	6	L 1+00N 4+00E	\$ 73	<0.1	43	5	61	<5	1
L 3+75N 3+00E	\$ 7	<0.1	31	14	48	<5	5	L 1+25N 4+00E	\$ 50	0.9	29	26	74	<5	2
L 4+00N 3+00E	\$ 14	<0.1	56	18	65	<5	5	L 1+50N 4+00E	\$ 42	0.6	31	38	94	<5	4
L 4+25N 3+00E	\$ 62	0.8	121	17	148	<5	5	L 1+75N 4+00E	\$ 24	<0.1	19	10	56	<5	1
L 4+50N 3+00E	\$ 40	0.1	51	19	82	7	6	L 2+00N 4+00E	\$ 51	<0.1	23	8	57	<5	2
L 4+75N 3+00E	\$ 14	<0.1	56	15	73	5	10	L 2+25N 4+00E	\$ 10	<0.1	23	10	89	<5	1
L 5+00N 3+00E	\$ 11	<0.1	144	17	95	5	4	L 2+50N 4+00E	\$ 56	<0.1	18	10	65	<5	3
L 5+25N 3+00E	\$ 7	<0.1	105	19	99	<5	5	L 3+00N 4+00E	\$ 17	<0.1	74	13	80	<5	4
L 5+50N 3+00E	\$ 41	<0.1	89	18	88	<5	5	L 3+25N 4+00E	\$ 8	0.1	35	15	99	6	4
L 5+75N 3+00E	\$ 12	<0.1	76	16	72	<5	4	L 3+50N 4+00E	\$ 36	<0.1	30	15	93	<5	3
L 6+00N 3+00E	\$ 28	<0.1	112	18	110	5	5	L 3+75N 4+00E	\$ 16	<0.1	27	15	93	<5	3
BL 3+50E	\$ 85	<0.1	41	21	78	<5	1	L 4+00N 4+00E	\$ 22	<0.1	27	13	133	<5	2
L 0+25N 3+50E	\$ 95	<0.1	23	18	65	5	1	L 4+25N 4+00E	\$ 26	<0.1	16	13	37	<5	6
L 0+50N 3+50E	\$ 47	<0.1	35	19	38	<5	1	L 4+50N 4+00E	\$ 21	<0.1	40	11	76	<5	3
L 0+75N 3+50E	\$ 9	<0.1	22	20	50	<5	2	L 4+75N 4+00E	\$ 8	0.2	70	15	98	<5	7
L 1+00N 3+50E	\$ 23	<0.1	53	12	74	<5	1	L 5+00N 4+00E	\$ 59	<0.1	34	21	160	<5	4
L 1+25N 3+50E	\$ 55	1.7	30	38	79	7	2	L 5+25N 4+00E	\$ 21	0.4	23	15	98	<5	2
L 1+50N 3+50E	\$ 25	0.3	32	47	93	5	2	L 5+50N 4+00E	\$ 46	<0.1	5	13	42	<5	2
L 1+75N 3+50E	\$ 17	9.4	5054	19	66	<5	23	L 5+75N 4+00E	\$ 14	<0.1	18	13	82	<5	2
L 2+00N 3+50E	\$ 10	<0.1	25	16	68	5	2	L 6+00N 4+00E	\$ 17	<0.1	21	13	79	<5	1
L 2+25N 3+50E	\$ 10	<0.1	18	14	66	<5	2	BL 4+50E	\$ 13	<0.1	42	9	70	<5	1
L 2+50N 3+50E	\$ 88	<0.1	20	16	84	<5	2	L 0+25N 4+50E	\$ 14	<0.1	54	21	96	6	3
L 3+00N 3+50E	\$ 21	<0.1	71	18	75	7	4	L 0+50N 4+50E	\$ 33	0.6	94	7	91	<5	3
L 3+25N 3+50E	\$ 14	<0.1	29	19	86	<5	3	L 0+75N 4+50E	\$ 24	<0.1	58	9	52	<5	2
L 3+50N 3+50E	\$ 8	0.5	24	20	123	6	3	L 1+00N 4+50E	\$ 12	<0.1	81	8	69	<5	2
L 3+75N 3+50E	\$ 42	<0.1	29	20	86	5	3	L 1+25N 4+50E	\$ 10	0.6	73	11	95	<5	4
L 4+00N 3+50E	\$ 7	<0.1	28	22	121	<5	3	L 1+50N 4+50E	\$ 7	0.3	405	6	243	<5	3
L 4+25N 3+50E	\$ 5	<0.1	23	17	132	5	3	L 1+75N 4+50E	\$ 13	0.1	84	13	70	<5	4
L 4+50N 3+50E	\$ 13	<0.1	48	18	104	5	4	L 2+00N 4+50E	\$ 12	<0.1	25	8	43	<5	19
L 4+75N 3+50E	\$ 6	0.2	67	24	102	<5	6	L 2+25N 4+50E (A)	\$ 8	<0.1	88	10	93	<5	3
L 5+00N 3+50E	\$ <5	<0.1	34	26	163	<5	4	L 2+25N 4+50E (B)	\$ 9	<0.1	37	9	56	<5	3
L 5+25N 3+50E	\$ 18	<0.1	13	21	63	7	2	L 2+75N 4+50E	\$ 84	<0.1	123	14	83	<5	6
L 5+50N 3+50E	\$ <5	<0.1	15	17	61	6	2	L 3+00N 4+50E	\$ 40	<0.1	81	14	72	<5	5

Min Limit 5 0.1 1 2 1 5 1 5 0.1 1 2 1 5 1  
 Max Reported\* 9999 99.9 20000 20000 20000 9999 9999 9999 99.9 20000 20000 20000 9999 9999  
 Method FAAA ICP ICP ICP ICP ICP ICP FAAA ICP ICP ICP ICP ICP ICP  
 ---No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 % =Estimate % Max=No Estimate  
 International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



CERTIFICATE OF ANALYSIS  
iPL 93E1302

5 Col Street  
Vancouver, B.C.  
Canada V5Y 3E1  
Phone: (604) 879-7878  
Fax: (604) 879-7898

Client: Bush Resources Ltd.  
Project: Discovery Property

415 Soil

IPL: 93E1302 M

In: May 13, 1993  
Out: May 19, 1993

Page 7 of 11

Section 1 of 1

Certified BC Assayer: David Chiu

Sample Name	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Mo ppm	Sample Name	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Mo ppm		
L 3+25N 4+50E	S	10	<0.1	67	12	61	<5	4	L 0+25S 1+50E	S	17	3.1	2292	13	49	<5	9
L 3+50N 4+50E	S	13	<0.1	51	26	63	<5	14	L 0+50S 1+50E	S	<5	<0.1	44	13	54	<5	2
L 3+75N 4+50E	S	16	0.8	120	12	103	<5	2	L 0+75S 1+50E	S	102	<0.1	64	12	61	<5	2
L 4+00N 4+50E	S	16	1.1	1118	21	111	<5	4	L 1+00S 1+50E	S	41	<0.1	45	7	52	<5	2
L 4+25N 4+50E	S	28	1.2	644	19	96	<5	4	L 0+25S 2+00E	S	15	<0.1	36	10	62	<5	2
L 4+50N 4+50E	S	6	1.7	227	7	98	<5	1	L 0+50S 2+00E	S	<5	<0.1	31	10	52	<5	2
L 4+75N 4+50E	S	71	0.6	191	17	120	<5	3	L 0+75S 2+00E	S	7	<0.1	32	10	48	<5	2
BL 5+00E	S	6	0.5	61	8	100	<5	5	L 1+00S 2+00E	S	<5	<0.1	52	9	64	<5	1
L 0+25N 5+00E	S	<5	0.7	38	19	51	<5	2	L 0+25S 2+50E	S	33	<0.1	33	9	47	<5	1
L 0+50N 5+00E	S	40	0.8	92	10	109	<5	3	L 0+50S 2+50E	S	14	<0.1	29	11	43	<5	1
L 0+75N 5+00E	S	<5	<0.1	76	10	56	<5	2	L 0+75S 2+50E	S	5	<0.1	35	9	57	<5	2
L 1+00N 5+00E	S	10	<0.1	104	11	67	<5	2	L 1+00S 2+50E	S	12	<0.1	61	10	74	<5	1
L 1+25N 5+00E	S	13	0.2	83	9	77	<5	3	L 0+25S 3+00E	S	6	0.2	30	12	52	<5	2
L 1+50N 5+00E	S	18	0.7	276	9	164	<5	4	L 0+50S 3+00E	S	21	0.3	30	13	50	<5	1
L 1+75N 5+00E	S	13	<0.1	84	11	67	<5	5	L 0+75S 3+00E	S	<5	0.1	29	11	49	<5	2
L 2+00N 5+00E	S	11	<0.1	38	12	60	<5	14	L 1+00S 3+00E	S	5	<0.1	30	9	48	<5	2
L 2+25N 5+00E (A)	S	<5	<0.1	19	9	44	<5	5	L 0+25S 3+50E	S	5	0.2	33	12	67	<5	2
L 2+25N 5+00E (B)	S	20	<0.1	81	9	83	<5	4	L 0+50S 3+50E	S	<5	0.2	44	11	62	<5	2
L 2+75N 5+00E	S	20	<0.1	117	9	64	<5	5	L 0+75S 3+50E	S	70	7.1	3541	10	55	<5	15
L 3+00N 5+00E	S	28	<0.1	73	13	64	<5	5	L 1+00S 3+50E	S	16	0.4	72	13	43	<5	1
L 3+25N 5+00E	S	21	<0.1	82	12	69	<5	6	L 0+25S 4+00E	S	<5	0.3	27	11	74	<5	1
L 3+50N 5+00E	S	6	<0.1	30	26	52	<5	17	L 0+50S 4+00E	S	<5	0.1	13	13	39	<5	1
L 3+75N 5+00E	S	15	1.2	139	13	103	<5	2	L 0+75S 4+00E	S	<5	0.7	28	15	58	<5	2
L 4+00N 5+00E	S	9	1.3	900	19	100	5	4	L 1+00S 4+00E	S	<5	0.6	31	10	95	<5	2
L 4+25N 5+00E	S	<5	1.0	539	16	94	<5	4	L 0+25S 4+50E	S	7	<0.1	32	7	59	<5	1
L 4+50N 5+00E	S	41	1.0	169	11	102	<5	2	L 0+50S 4+50E	S	5	<0.1	23	7	48	<5	1
L 4+75N 5+00E	S	32	0.9	158	24	113	<5	3	L 0+75S 4+50E	S	38	<0.1	29	9	49	<5	1
L 0+25S 0+00E	S	<5	<0.1	26	9	53	<5	2	L 1+00S 4+50E	S	<5	0.3	54	12	68	<5	2
L 0+50S 0+00E	S	<5	0.3	41	15	87	<5	1	L 0+25S 5+00E	S	<5	<0.1	38	10	49	<5	1
L 0+75S 0+00E	S	<5	0.1	26	12	122	<5	2	L 0+50S 5+00E	S	<5	<0.1	21	8	54	<5	1
L 1+00S 0+00E	S	7	<0.1	48	15	86	<5	2	L 0+75S 5+00E	S	7	<0.1	17	8	56	<5	1
L 0+25S 0+50E	S	19	<0.1	34	11	61	<5	1	L 1+00S 5+00E	S	15	0.3	44	17	111	<5	1
L 0+50S 0+50E	S	<5	0.7	56	13	58	<5	2	LA 0+00S	S	<5	<0.1	63	3	73	<5	1
L 0+75S 0+50E	S	<5	0.3	36	16	68	<5	2	LA 0+25S	S	<5	<0.1	53	9	76	<5	2
L 1+00S 0+50E	S	7	<0.1	73	75	112	<5	1	LA 0+50S	S	<5	<0.1	30	7	48	<5	1
L 0+25S 1+00E	S	10	0.6	45	15	67	<5	2	LA 0+75S	S	8	0.5	63	9	64	<5	2
L 0+50S 1+00E	S	<5	<0.1	33	14	54	<5	1	LA 1+00S	S	<5	0.2	40	7	59	<5	1
L 0+75S 1+00E	S	17	0.2	23	12	45	<5	2	LA 1+25S	S	6	0.3	42	8	52	<5	2
L 1+00S 1+00E	S	10	<0.1	32	10	63	<5	2	LA 1+50S	S	<5	0.3	42	11	53	<5	1

Min Limit            5 0.1    1    2    1    5    1  
 Max Reported\*      9999 99.9 20000 20000 20000 9999 9999            5 0.1    1    2    1    5    1  
 Method              FAAA ICP    ICP    ICP    ICP    ICP    ICP            FAAA ICP    ICP    ICP    ICP    ICP    ICP  
 ---No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined =Estimate/1000 X=Estimate % Max=No Estimate  
 International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph: 604/879-7878 Fax: 604/879-7898







**APPENDIX II-B**

**ANALYTICAL DATA FOR TRENCH SAMPLES**



INTERNATIONAL PLASMA LABORATORY LTD

CERTIFICATE OF ANALYSIS  
iPL 93F2906

6 Col Street  
Vancouver, B.C.  
Canada V5Y 3E1  
Phone (604) 879-7878  
Fax (604) 879-7898

Client: Bush Resources Ltd.  
Project: None Given 4 Rock

iPL: 93F2906 M

Out: Jun 30, 1993  
In: Jun 29, 1993

Page 1 of 1

Section 1 of 1  
Certified BC Assayer: David Chiu

Sample Name	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm	Sample Name	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm	Sample Name	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
TR-1 RA 001	R 6	<0.1	86	62	7												
TR-4 RA 002	R 40	0.2	62	215	<5												

Min Limit 5 0.1 1 1 5 5 0.1 1 1 5 5 0.1 1 1 5  
 Max Reported\* 9999 100.0 20000 20000 9999 9999 100.0 20000 20000 9999 9999 100.0 20000 20000 9999  
 Method FAAA Geo ICP ICP ICP FAAA Geo ICP ICP ICP FAAA Geo ICP ICP ICP  
 ---No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate  
 International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



**CERTIFICATE OF ANALYSIS**  
iPL 93G0512

2036 Columbia Street  
Vancouver, BC  
Canada V5V 3E1  
Phone: 604-270-7070  
Fax: 604-270-7000

Client: Bush Resources Ltd.  
Project: None Given 6 Rock

iPL: 93G0512

Out: Jul 12, 1993  
In: Jul 05, 1993

Page 1 of 1

Section 1 of 1  
Certified BC Assayer: David Chiu

Sample Name	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm
T 2	R 6	0.2	48	15	164	16	<
T 3	R <	<	32	8	105	9	<
T 7	R 7	0.2	208	10	103	<	<
T 8	R <	0.1	111	7	59	5	<

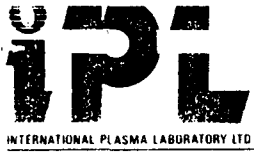
Min Limit 5 0.1 1 2 1 5 5  
Max Reported\* 9999 99.9 20000 20000 20000 9999 9999  
Method FAAA ICP ICP ICP ICP ICP ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5V 3E1 Ph: 604/270-7070 Fax: 604/270-7000

**APPENDIX II-C**

**ANALYTICAL DATA FOR CORE SAMPLES**



**CERTIFICATE OF ANALYSIS**  
iPL 93F2906

2036 Columbia Street  
Vancouver, B.C.  
Canada V5Y 3E1  
Phone (604) 879-7878  
Fax (604) 879-7898

Client: Bush Resources Ltd.  
Project: None Given 4 Rock

iPL: 93F2906 M

Out: Jun 30, 1993  
In: Jun 29, 1993

Page 1 of 1

Section 1 of 1  
Certified BC Assayer: David Chiu

Sample Name	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm	Sample Name	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm	Sample Name	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm	
13251	C <5	0.1	107	104	<5													
13252	C 16	0.9	108	503	9													

min Limit      5      0.1      1      1      5                      5      0.1      1      1      5                      5      0.1      1      1      5  
 Max Reported\*    9999    100.0    20000    20000    9999                      9999    100.0    20000    20000    9999                      9999    100.0    20000    20000    9999  
 Method            FAAA      Geo    ICP    ICP    ICP                      FAAA      Geo    ICP    ICP    ICP                      FAAA      Geo    ICP    ICP    ICP  
 ---No Test    ins=Insufficient Sample    S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined    m=Estimate/1000    %=Estimate %    Max=No Estimate  
 International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



CERTIFICATE OF ANALYSIS  
iPL 93G0512

2360 Columbia Street  
Vancouver BC  
Canada V5Y 3E1  
Phone: 604-879-7878  
Fax: 604-879-7898

Client: Bush Resources Ltd.  
Project: None Given 6 Rock

iPL: 93G0512

Out: Jul 12, 1993  
In: Jul 05, 1993

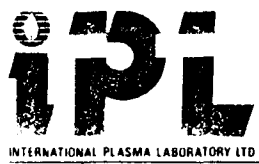
Page 1 of 1

Section 1 of 1  
Certified BC Assayer: David Chiu

Sample Name		Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm
13253	R	20	0.3	21	15	46	<	<
13254	R	10	0.4	182	31	219	<	<

Min Limit 5 0.1 1 2 1 5 5  
Max Reported\* 9999 99.9 20000 20000 20000 9999 9999  
Method FAAA ICP ICP ICP ICP ICP ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate X Max=No Estimate  
International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



CERTIFICATE OF ANALYSIS  
iPL 93G2304

4600 1 St  
Vancouver B.C.  
Canada V5Y 3E1  
Phone (604) 879-7878  
Fax (604) 879-7898

Client: Bush Resources Ltd.  
Project: None Given 19 Core

iPL: 93G2304

Out: Jul 28, 1993  
In: Jul 23, 1993

Page 1 of 1

Section 1 of 1  
Certified BC Assayer: David Chiu

Sample Name	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm
13255	C 146	<	110	18	152	14	<
13256	C 28	<	12	11	118	8	<
13257	C 17	<	146	8	42	<	3
13258	C 104	<	10	206	247	3	<
13259	C 124	1.8	30	3998	339	<	<
13260	C 162	<	195	776	247	17	<
13261	C 60	<	181	9	59	9	2
13262	C 414	4.4	161	76	330	32	2
13263	C 9	<	73	18	151	14	<
13264	C 52	<	48	15	131	3	<
13265	C 50	<	57	12	177	4	<
13266	C 373	<	26	52	124	3	<
13267	C 31	<	75	21	187	<	2
13268	C 21	<	452	12	258	<	<
13269	C 110	0.2	420	52	379	3	2
13270	C 93	<	207	7	243	2	<
13271	C 132	<	3	<	8	2	5
13272	C 61	<	21	6	20	15	<

Min Limit 5 0.1 1 2 1 2 2  
 Max Reported\* 9999 99.9 20000 20000 20000 10000 1000  
 Method FAAA ICP ICP ICP ICP ICP ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined ■=Estimate/1000 %=Estimate % Max=No Estimate  
 International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



INTERNATIONAL PLASMA LABORATORY LTD.

CERTIFICATE OF ANALYSIS  
iPL 93H1602

2000 Columbia Street  
Vancouver BC  
Canada V5Y 3E1  
Phone (604) 879-7878  
Fax (604) 879-7898

Client: Bush Resources Ltd.  
Project: None Given 20 Core

iPL: 93H1602

Out: Aug 18, 1993  
In: Aug 16, 1993

Page 1 of 1

Section 1 of 1  
Certified BC Assayer: David Chiu

Sample Name		Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm
13273	C	< 0.1	129	12	76	5	<	<
13274	C	15	< 17	<	165	17	<	<
13275	C	49	0.6	275	27	190	9	<
13276	C	9	0.2	54	14	163	<	<
13277	C	<	<	308	5	181	<	<
13278	C	35	0.2	208	17	209	<	<
13279	C	<	0.2	104	21	187	<	<
13280	C	<	0.3	98	38	109	<	<
13281	C	35	0.3	60	67	154	<	<
13282	C	<	0.3	234	10	161	<	<
13283	C	48	0.4	23	9	62	26	6
13284	C	35	0.8	106	55	391	28	6
13285	C	22	0.1	31	64	105	<	8
13286	C	86	0.3	13	17	53	<	<
13287	C	34	<	11	27	94	<	6
13288	C	7	0.3	18	<	43	38	5
13289	C	5	0.2	15	<	66	<	<
13290	C	<	0.2	96	12	138	<	<
13291	C	7	0.3	99	9	162	<	<
13292	C	<	<	2	<	59	<	<

Min Limit 5 0.1 1 2 1 5 5  
 Max Reported\* 9999 99.9 20000 20000 20000 9999 9999  
 Method FAAA ICP ICP ICP ICP ICP ICP

—No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 Z=Estimate Z Max=No Estimate  
 International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



**APPENDIX III**

**DIAMOND DRILL LOGS**

## DIAMOND DRILL LOGS

### HOLE No.: DDH 93-1

Location: 3+18W - 1+95N  
 Elevation: 829 meters (2,720 feet)  
 Azimut: N 273°  
 Dip: -45°  
 Length: 50.90 m (167 ft)  
 Date Started: June 24, 1993  
 Date Completed: June 25, 1993

<u>From (m)</u>	<u>To (m)</u>	<u>Description</u>
0.00	3.65	Casing
3.65	51.45	Greenstone, fine to medium grained, light grey-green, with numerous veinlets of quartz-carbonate, some up to 5 mm thick; iron and manganese stains mainly along fracture planes; extensive epidote; highly serpentinized. Fractures and veinlets at 30° to subparallel to core axis, usually parallel to schistosity. Presence of sulphides, mainly pyrite, decreasing with depth.
	3.65- 8.25	Extremely broken up core
	6.40- 7.00	Shattered, grounded core
	7.00- 7.45	Vuggy, presence of sulphide in vugs and along veinlets.
	10.05-14.65	Slightly brecciated, same composition, presence of flow feature around clasts. Presence of plagioclases and feldspars in breccia. Fractures at 30° to 45° to core axis.
	12.20-12.80	Highly shattered core
	13.40-14.65	Highly broken up core
	14.65-20.40	More compact, darker green, presence of small amount of sulphides. Small sections of broken up core.
	20.40-21.65	Brecciated section with an increase of sulphides content, mainly along the quartz-carbonate veinlets. An increase of epidote was also noted.
	21.65-23.45	Fine grained, dark green, sulphides pervasive in the core but mainly occurring along the quartz-carbonate veinlets.
	23.45-33.20	Brecciated zone with high epidote content. Pervasive sulphides, presence of mica. Relatively serpentinized section.
	33.20-39.00	Less brecciated, decrease of sulphides content, medium to fine grained, light green. Presence of numerous pervasive quartz-carbonate veinlets and stringers.
	39.00-50.90	Medium green, fine to medium grained. High content of pervasive pyrite. Presence of small brecciated sections. Highly silicified between 39.00 and 39.70.

E.O.H. = 50.90 meters (167 feet)

**SAMPLES:**

<u>Sample Number</u>	<u>From (meters)</u>	<u>To (meters)</u>
13251	31.10	32.00
13252	40.25	41.15

**HOLE No.: DDH 93-2**

Location: 2+26W - 5+79N  
Elevation: 823 meters (2,700 feet)  
Azimut: N 269°  
Dip: -45°  
Length: 47.25 m (155 ft)  
Date Started: June 27, 1993  
Date Completed: June 27, 1993

<u>From (m)</u>	<u>To (m)</u>	<u>Description</u>
0.00	3.65	Casing / Overburden
3.65	11.25	Fine to medium grained, greyish-green greenstone with occasional quartz-carbonate veinlets. Fractures at 60° to subparallel to C.A. Manganese and iron stains along the fracture planes. Presence of sulphides (mainly pyrite in small crystals) pervasive in the core and also in aggregates along fracture planes.
	3.65- 3.95	Highly broken up core
	3.95- 4.55	Medium grained with lots of iron and manganese stainings along fracture planes.
	4.55- 4.70	Highly shattered core
	4.70- 5.20	Medium grained, lighter green
	5.20- 6.25	Medium grained with lots of iron and manganese stainings along fracture planes. Increase of pyrite content (up to about 1%). Pyrite present in fine grains.
	6.25- 7.00	Medium grained, lighter green.
	7.00- 7.30	Highly shattered core
	7.30- 8.20	Less manganese, increase of iron stains along fracture planes.
	8.20-11.10	Darker green, fine grained with specs of pyrite along some of fracture planes.
	11.10-11.25	Highly fractured
11.25	12.50	Highly broken up, medium grained, light grey-greenish schist. Increase of fractures and quartz-carbonate veinlets. Increase of feldspar content. Specs of sulphides, mainly along schistosity.
12.50	14.30	Same description as above (3.65-11.25)
14.30	19.20	Same description as above (11.25-12.50). Increase of pyrite content as pervasive small crystals (up to 1mm).
	17.15	1.5 cm quartz-carbonate vein at 40° to C.A. Approximately 3% of pyrite along the vein walls.
19.20	21.35	Serpentinite with talc giving a soapy texture.
21.35	24.40	Medium grained, dark green greenstone with presence of serpentine and talc along fracture planes. Pyrite pervasive.

<u>From (m)</u>	<u>To (m)</u>	<u>Description</u>
	23.15–24.40	Very fine grained with fractures subparallel to C.A. High sulphides content along fractures (up to 5% in places).
24.40	27.10	Light greenish–grey schist presenting a 'flowing texture' with medium to fine grained xenolith within a darker green aphanitic matrix. Increase of quartz–carbonate veinlets content. Sulphides (mainly pyrite) present mainly along fractures and within matrix.
	26.20–26.50	Broken up core with iron stainings along fracture planes.
27.10	28.35	Very fine grained to aphanitic serpentinite with high talc content, giving the rock the texture of a soapstone. Abundant fractures and quartz–carbonate veinlets at 30°–40° and 80°–90° to C.A.
28.35	33.85	Medium grained, medium green–grey greenstone same as above with abundant quartz–carbonate veinlets and stringers and presence of specs of sulphides (mainly pyrite) along the veinlets and fractures.
33.85	35.55	Coarser grained, slightly brecciated with epidotization of matrix. Light greenish–yellow. Presence of quartz–carbonate veinlets and swells with specs of pyrite. Iron stainings along fracture planes. Small zones with patches of vuggy quartz–carbonate containing sulphides specs.
35.55	47.85	Fine grained, medium green greenstone (same description as above), with less than 1% sulphides present mainly along fracture planes.

E.O.H. = 47.85 meters (157 ft)

**SAMPLES:**

<u>Sample Number</u>	<u>From (meters)</u>	<u>To (meters)</u>
13255	23.45	24.35
13256	24.70	25.60

**HOLE No.: DDH 93-3**

Location: 3+97W - 7+16N  
 Elevation: 858 meters (2,815 feet)  
 Azimut: N 290°  
 Dip: -45°  
 Length: 50.90 m (167 ft)  
 Date Started: June 26, 1993  
 Date Completed: June 26, 1993

<u>From (m)</u>	<u>To (m)</u>	<u>Description</u>
0.00	6.10	Casing / Overburden
6.10	10.95	Highly broken up, medium to fine grained, medium green andesitic volcanics. Iron and rare manganese stainings along fracture planes. Fractures at 45° to subparallel to C.A. Presence of quartz-carbonate veinlets and stringers (up to .5 to 1.0 cm wide). No visible sulphides.
10.95	11.60	Medium to fine grained, whitish-green schist with traces of pyrite. Some andesite remnants. Increase of quartz and feldspar content.
11.60	18.30	Volcanics, same description as above (6.10-10.95).
18.30	22.85	Schist, same description as above (10.95-11.60). Higher quartz content and pervasive pyrite (less than 1%). Fractures at 30° to subparallel to C.A.
22.85	33.20	Volcanics, same description as above (6.10-10.95). Slightly brecciated in places (zones up to 10 cm wide) with increase of pervasive pyrite, epidote, and quartz-carbonate veinlets and stringers.
	31.40-32.00	Progressive passage to schist and back to volcanics.
33.20	34.15	Schist, same description as above (10.95-11.60)
34.15	35.35	Quartz diorite, medium grained, light grey, equigranular with traces of pyrite.
35.35	35.95	Volcanics, same description as above (6.10-10.95)
35.95	37.50	Schist, same description as above (10.95-11.60)
37.50	42.35	Volcanics, same description as above (6.10-10.95)
42.35	50.90	Schist, same description as above (10.95-11.60)
	46.95-47.40	Milky quartz vein, no visible sulphides, iron stainings along fracture planes within vein.

E.O.H. = 50.90 meters (167 feet)

**SAMPLES:**

<u>Sample Number</u>	<u>From (meters)</u>	<u>To (meters)</u>
13261	21.95	22.85

**HOLE No.: DDH 93-4**

Location: 3+02W - 8+70N  
Elevation: 820 meters (2,690 feet)  
Azimut: N 310°  
Dip: -45°  
Length: 45.70 m (150 ft)  
Date Started: June 28, 1993  
Date Completed: June 28, 1993

<u>From (m)</u>	<u>To (m)</u>	<u>Description</u>
0.00	3.05	Casing / Overburden
3.05	26.20	Medium grained, medium to dark green, greenstone of andesitic composition. Presence of quartz-carbonate veins, veinlets and stringers at 25° to 50° to C.A. Presence of specs of sulphides (mainly pyrite) associated generally veins and fractures. Veinlets are slightly epidotized and present iron and manganese stainings. Fractures at 20° to 60° to CA. Serpentine and epidote pervasive throughout the core. several fractures are vuggy and show higher iron and manganese stainings.
	3.05- 9.45	Broken up core.
	9.00	2 cm wide milky quartz vein. No visible sulphides.
	9.45-11.90	Increase of epidote content and sulphide content along the veinlets.
	11.90-12.05	Slightly brecciated
	14.50	25 cm wide milky quartz vein with hematite stains along fractures. No visible sulphides.
	12.05-20.55	Increase of pervasive pyrite content (up to 1% in places), mainly along fractures and veins where it occurs in blebs.
	20.55-21.95	Slightly brecciated, increase of epidote content. Core broken up. Extensive iron and manganese stainings.
	21.95	15 cm milky quartz vein with iron stainings along fractures. No visible sulphide in quartz.
	21.95-26.20	Slightly brecciated with numerous quartz-carbonate veinlets containing epidote. High pyrite content along veinlets.
	24.10	5 cm milky quartz vein. Same as above (21.95)
	24.70-25.60	Highly broken up core.
26.20	28.95	Fine grained, lighth greyish green schist. Decrease of sulphides content. Presence of less quartz-carbonate veins and veinlets.
28.95	45.70	Greenstone, same description as above (3.05-26.20). Decrease of sulphides content with depth.
	30.50-31.10	Broken up core, serpentinized.
	35.05-35.35	2-3 cm wide quartz-carbonate vein. No visible sulphide.
	39.00	3 cm wide quartz vein. No visible sulphide.
	41.60	10 cm wide milky quartz vein. No visible quartz vein.

E.O.H. = 45.70 meters (150 feet)



**SAMPLES:**

Sample Number

From (meters)

To (meters)

13257

19.20

20.10

**HOLE No.: DDH 93-5**

Location: 0+63E - 0+82N  
Elevation: 748 meters (2,455 feet)  
Azimut: N 270°  
Dip: -60°  
Length: 45.85 m (157 ft)  
Date Started: June 29, 1993  
Date Completed: June 29, 1993

<u>From (m)</u>	<u>To (m)</u>	<u>Description</u>
0.00	3.05	Casing / Overburden
3.05	10.50	Greenstone, fine grained, medium to dark green with presence of small quartz-carbonate veinlets. Extensive epidote alteration. Iron and manganese stains along fracture planes. Some milky and vuggy quartz veins up to 2 cm wide. Presence of pervasive pyrite crystals (less than 1%).
	5.40	23 cm wide quartz vein
	6.10	15 cm wide quartz vein
	9.15	15 cm wide dark green, aphanitic mudstone zone.
	10.50	15 cm wide dark green, aphanitic mudstone zone.
	10.50-15.55	Brecciated, medium to dark green. Increase of sulphides content. Heavy iron and manganese stains along the fracture planes. Presence of epidote, mainly within clasts.
15.55	26.50	Andesitic greenstone, fine to medium grained, medium to dark green presenting some flow features. Sulphides (pyrite) pervasive throughout the core as small grains, with higher occurrences along fracture planes. Fractures at 30° to subparallel to C.A.
	26.50-29.85	Increase of quartz content
	29.85-32.60	Slightly brecciated with increase of epidote alteration and increase of quartz-feldspar content. Lighter green.
	32.60-35.35	High epidote alteration, higher quartz content. Increase of sulphides (up to 1% in places).
35.35	35.95	Fine grained to aphanitic, dark grey mudstone of probably andesitic volcanics composition. Small quartz-carbonate veinlets at 30° to perpendicular to C.A. Fractured with presence of hematite and manganese stainings along fracture planes.
35.95	37.20	Andesitic greenstone, same description as above (15.55-26.50) with high epidote alteration and relatively high quartz content. Sulphides up to 1% in places.
	37.20-46.00	Decrease of quartz-feldspar content. Slightly brecciated in places. Numerous quartz-carbonate pervasive veins and veinlets. Epidote present along the veins and around some clasts in the brecciated

<u>From (m)</u>	<u>To (m)</u>	<u>Description</u>
	46.00–46.60	zones. Decrease of sulphides content. Increase of quartz veinlets subparallel to C.A., mixed with dark grey mudstone.
46.60	47.85	Mudstone, same description as above (35.35–35.95).

E.O.H. = 47.85 meters (157 feet)

**SAMPLES:**

<u>Sample Number</u>	<u>From (meters)</u>	<u>To (meters)</u>
13258	15.55	16.45
13259	26.80	27.70
13286	31.10	32.00
13287	33.20	34.10
13285	34.45	35.35
13260	35.95	36.85

**HOLE No.: DDH 93-6**

Location: 0+45E - 6+90N  
Elevation: 756 meters (2,480 feet)  
Azimut: N 280°  
Dip: -60°  
Length: 53.35 m (175 ft)  
Date Started: July 2, 1993  
Date Completed: July 3, 1993

<u>From (m)</u>	<u>To (m)</u>	<u>Description</u>
0.00	7.60	Casing / Overburden
7.60	21.95	Dark to medium green, fine grained andesite with serpentine. Extensive iron stainings along fracture planes. Presence of epidote along seams. Small quartz-carbonate veinlets with sulphides associated (mainly pyrite). Increase of pervasive epidote and chlorite with depth. Fractures at 40° to subparallel to C.A. 9.15- 9.75 Highly fractured 10.65-11.25 Highly fractured 15.25-19.20 Highly fractured and broken up core 18.90-19.80 Slightly brecciated
21.95	25.30	Fine grained, light grey schist, highly broken up core. Increase of quartz-feldspar content. Presence of sulphides (mainly pyrite), averaging about 1% to 3%.
25.30	45.70	Same description as above (7.65-21.95). Increase of chlorite and serpentine alteration. 32.90-33.50 Highly fractured and broken up core 34.15-35.35 Highly fractured and broken up core 35.95-45.60 Highly fractured and broken up core
45.70	53.35	Schist, same description as above (21.95-25.30). Slightly brecciated in places. 50.30-53.35 Highly fractured and broken up core

E.O.H. = 53.35 meters (175 feet)

**SAMPLES:**

<u>Sample Number</u>	<u>From (meters)</u>	<u>To (meters)</u>
13264	10.35	11.25
13265	18.90	19.80
13253	21.95	23.45
13266	21.95	22.85
13282	28.65	29.55
13290	30.50	31.40
13279	35.35	36.25
13267	42.65	43.55
13281	44.20	45.10
13280	50.30	51.20

**HOLE No.: DDH 93-7**

Location: 3+10E - 6+45N  
Elevation: 724 meters (2,375 feet)  
Azimut: N 291°  
Dip: -60°  
Length: 50.90 m (167 ft)  
Date Started: June 30, 1993  
Date Completed: July 2, 1993

<u>From (m)</u>	<u>To (m)</u>	<u>Description</u>
0.00	11.60	Casing / Overburden
11.60	30.80	Medium to dark green, fine to medium grained andesitic greenstone. Small quartz-carbonate veinlets and seams pervasive. Highly fractured in places with chlorite, epidote, iron and rare manganese stainings along fracture planes. Sulphides present usually along veins and fractures. 11.60-15.25 Highly fractured and broken up core 17.65-28.35 Highly fractured and broken up core 19.80-21.35 Slightly brecciated with pyrite up to 2-3% in places. 25.00 Increase of brecciation
30.80	38.70	Pale, tan, aphanitic with extensive hematite stains. Sulphides present (pyrite about 2%, galena less than 0.5%). 33.20-42.05 Highly fractured and broken up core
38.70	47.85	Light grey, fine grained to aphanitic schist with pyrite content about 1%.
47.85	49.40	Same description as above (30.80-38.70)
49.40	50.90	Schist, same description as above (38.70-47.85).

E.O.H. = 50.90 meters (167 feet)

**SAMPLES:**

<u>Sample Number</u>	<u>From (meters)</u>	<u>To (meters)</u>
13278	16.75	17.65
13254	18.30	19.50
13268	21.05	21.95
13269	26.50	27.40
13276	30.50	31.40
13277	31.40	32.30
13270	34.15	35.05
13275	40.85	41.75
13291	49.70	50.60

**HOLE No.: DDH 93-8**

Location: 4+35E - 9+28N  
Elevation: 727 meters (2,385 feet)  
Azimut: N 270°  
Dip: -45°  
Length: 50.90 m (167 ft)  
Date Started: July 3, 1993  
Date Completed: July 4, 1993

<u>From (m)</u>	<u>To (m)</u>	<u>Description</u>
0.00	3.95	Casing / Overburden
3.95	4.25	Milky to clear white quartz vein. No visible sulphide. Fractured in places with light hematite stains present along fracture planes.
4.25	4.85	Light grey, fine grained, quartz rich and slightly brecciated schist. Quartz veinlets parallel to schistosity. Presence of pyrite along veinlets.
4.85	6.40	Quartz vein, same description as above (3.95-4.25), with traces of sulphides (pyrite), mainly along fracture planes. Small clasts of schist present in places.
6.40	8.25	Schist, same description as above (4.25-4.85) with less than 0.5% sulphides located usually along schistosity.
8.25	10.35	Quartz vein, same description as above (4.85-6.40).
	8.55- 8.85	Small band of schist.
10.35	21.95	Schist, same description as above (4.25-4.85). Increase of sulphide content to about 1%. High quartz content. Fractures and schistosity at 30° to 45° to C.A.
	15.85-16.15	Two fault gauges at 45° to C.A.
21.95	22.55	Progressive change to chloritized andesitic volcanics with high hematite stains along fracture planes.
22.55	25.30	Medium green, fine to medium grained, slightly banded chloritized andesitic volcanics with small quartz veinlets. Pervasive small grained pyrite (less than 0.5%). Epidote and iron stains along fracture planes.
25.30	34.45	Pale, tan, aphanitic with extensive hematite stains. Relatively high quartz content. Sulphides present (mainly pyrite) with zones containing up to 1% to 2%.
34.45	40.55	Andesitic volcanics, same description as above (22.55-25.30).
40.55	48.15	Schist, same description as above (4.25-4.85).



<u>From (m)</u>	<u>To (m)</u>	<u>Description</u>
48.15	50.90	Andesitic volcanics, same description as above (22.55–25.30), with small brecciated zones.

E.O.H. = 50.90 meters (167 feet)

**SAMPLES:**

<u>Sample Number</u>	<u>From (meters)</u>	<u>To (meters)</u>
13292	5.20	6.10
13271	8.85	9.75
13274	13.40	14.30
13272	28.95	29.85
13273	34.75	35.65

**HOLE No.: DDH 93-9**

Location: 5+57E - 12+50N  
Elevation: 728 meters (2,390 feet)  
Azimut: N 275°  
Dip: -45°  
Length: NOT COMPLETED: 17.70 m (58 ft) in overburden  
Date Started: July 4, 1993  
Date Completed: July 5, 1993

<u>From (m)</u>	<u>To (m)</u>	<u>Description</u>
0.00	17.70	Casing/overburden - sand and boulders

**HOLE ABANDONNED DUE TO MECHANICAL PROBLEMS**

**HOLE No.: DDH 93-10**

Location: 1+50E - 11+83N  
Elevation: 853 meters (2,800 feet)  
Azimut: N 290°  
Dip: -45°  
Length: 47.85 m (157 ft)  
Date Started: July 6, 1993  
Date Completed: July 6, 1993

<u>From (m)</u>	<u>To (m)</u>	<u>Description</u>
0.00	6.70	Casing / Overburden
6.70	21.20	Light grey, very fine grained, slightly brecciated in places schist. High quartz and feldspar content. Presence of mica. Pervasive small quartz veinlets. Well developed schistose. Approximately 1% of sulphides (mainly pyrite), located principally along the schistosity, fractures and quartz veinlets. Increase of sulphides content with depth.
	11.25-12-15	Increase of sulphides content (up to approximately 2-3%).
	12.35	30 cm wide quartz vein. White, milky, no visible sulphides.
	13.10-13.40	Pale green volcanic of andesitic composition.
21.20	23.75	Medium grey, fine grained to aphanitic, with pervasive sulphides (pyrite) less than 1%, volcanics (andesitic composition)
	22.40	30 cm of light green, presence of epidote.
23.75	43.60	Same description as above (6.70 - 21.20) with small slightly brecciated zones containing epidote.
	30.80-43.60	Increase of quartz and feldspar content.
	41.15-42.05	Increase of sulphides content (up to 2-3%).
43.60	47.85	Progressive passage to medium grey, aphanitic volcanics of andesitic composition. Presence of small zones with sulphide content up to 1%.

E.O.H. = 47.85 m (157 ft)

**SAMPLES:**

<u>Sample Number</u>	<u>From (meters)</u>	<u>To (meters)</u>
13262	11.25	12.15
13283	13.40	14.30
13288	17.65	18.55
13289	28.95	29.85
13263	41.15	42.05
13284	46.30	47.20

~~APPENDIX VI~~ ✓ ✓

**STATISTICAL TREATMENT OF DATA**

## STATISTICAL TREATMENT OF DATA

The mean ( $\bar{x}$ ) and the standard deviation ( $\sigma$ ) were calculated on the basis of a lognormal distribution. The threshold ( $t$ ) was assumed to be equal to the mean plus 2.5 times the standard deviation ( $t = \bar{x} + 2.5\sigma$ ).

Gold, silver, arsenic, copper, lead, zinc, and molybdenum were calculated for the entire population of soil samples ( $n = 415$ ).

### Statistical Results for Soil Samples

<i>Gold</i>	Mean	17.29
	Standard Deviation	21.20
	Threshold	71.0
<i>Silver</i>	Mean	0.208
	Standard Deviation	0.744
	Threshold	2.07
<i>Arsenic</i>	Mean	1.96
	Standard Deviation	3.81
	Threshold	11.49
<i>Copper</i>	Mean	104.29
	Standard Deviation	375.19
	Threshold	1042.27

However, due to several very high numbers encountered during the survey, a second calculation was made without anomalies in excess of 500 ppm.

<i>Copper</i>	Mean	53.81
	Standard Deviation	58.72
	Threshold	200.61

<i>Lead</i>	Mean	13.80
	Standard Deviation	9.84
	Threshold	38.40
<i>Zinc</i>	Mean	76.45
	Standard Deviation	31.42
	Threshold	155.00
<i>Molybdenum</i>	Mean	3.38
	Standard Deviation	3.28
	Threshold	11.58