

REPORT ON GEOCHEMICAL SURVEY

CLAIMS : RCJV 19, SLAMET, BANNER  
MINING DIVISION : GREENWOOD  
N.T.S. : 82E/3  
LATITUDE : 49°06'N  
LONGITUDE : 119°12'W  
OWNER : MINTEK RESOURCES LTD.  
AUTHOR : I.R. CORVALAN  
DATE : JANUARY 27, 1984

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**12,389**

## TABLE OF CONTENTS

	<u>Page</u>
1. INTRODUCTION	
1.1 Location and Access	1 /
1.2 Property	1 /
1.3 History	1 /
1.4 Geology	4 /
1.5 Mineralization	4 /
1.6 Summary of Work Done	4 /
2. GEOCHEMICAL SURVEY	
2.1 Survey Grid	5 /
2.2 Sample Analysis	5 /
2.3 Interpretation	5 /
2.4 Conclusions	<del>6 /</del>
2.5 Recommendations	<del>6 /</del>
3. BIBLIOGRAPHY	10 /
4. MAPS	
Map #1 : Location Map	2 /
Map #2 : Claim Map	3 /
Map #3A : Sample Locations (15+00S, 14+00E)	6 /
Map #3B : Geochemical Results (15+00S, 14+00E)	7 /
Map #4A : Sample Locations (10+00S, 14+00E)	8 /
Map #4B : Geochemical Results (10+00S, 14+00E)	9 /
ANNEX #1 : Expense Statement	11 /
ANNEX #2 : Statement of Expenditures	12 /
ANNEX #3 : Statement of Qualifications	13 /
ANNEX #4 : Geochemical Results	14 /

INTRODUCTIONLocation and Access :

The RCJV-19 property is located about 1.6 km west of Camp McKinney at an elevation of 4,000 feet in the Greenwood Mining Division. Its geographical coordinates are : Latitude 46°06'N and Longitude 119°12'W. Road access is from Highway #3 by a gravel road that leaves the highway 15 km west of Rock Creek and passes through the north portion of the claim group.

Property :

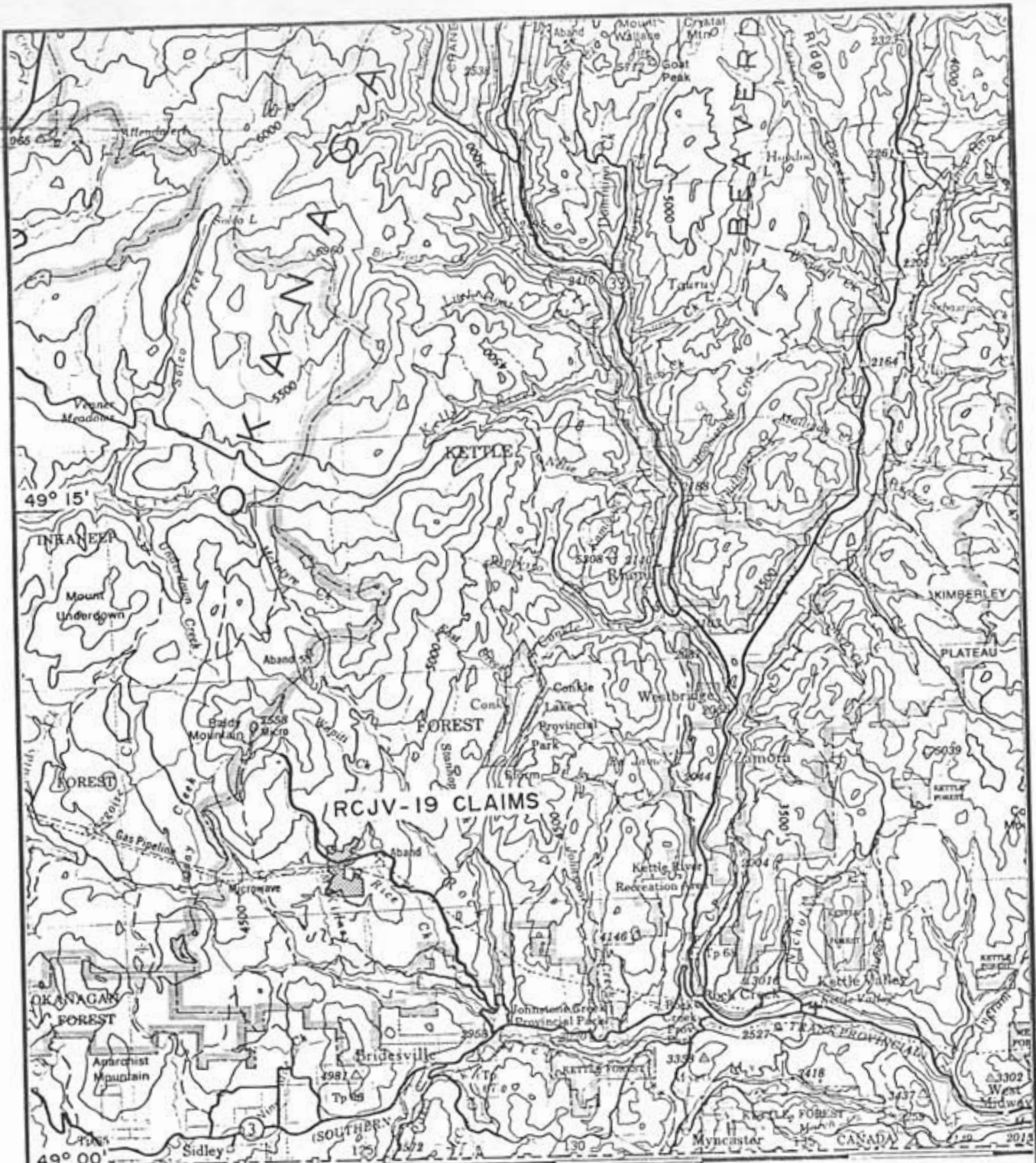
The property consists of 1-12 unit claim and 2 reverted crown grants owned by Rock Creek Joint Venture and held in trust for the joint venture by Dayton Creek Silver Mines Ltd. Mintex owns 19.4% of the Joint Venture.

<u>Claim Name</u>	<u>Record No.</u>	<u>Units</u>	<u>Expiry Date</u>
RCJV #19	2371	12	February 16, 1986
Slamet	2368	RCG	July 25, 1986
Banner	2293	RCG	June 24, 1985

History :

The history of the Camp McKinney area dates back to before the turn of the century, when gold was produced from the Cariboo-Amelia Mine. Gold occurrences were originally discovered in 1887, and, between the years 1894 and 1904, 123,848 tons of ore were mined to produce 67,864 ounces of gold. Since that time the area has shown relatively little activity, although between 1960 and 1962, over 12,000 ounces of gold and 14,000 ounces of silver were produced.

The area encompassed under the RCVJ 19 group of claims takes in a number of old properties on which work was done in the past. These include the Eureka, Gold Cup, Dolphin claims, and claims of the Gold Hill area. All these are located within the northwest portion of the property, and have a number of veins and old workings reported in the literature. Most of the old work was pre-1900, with the exception of the Gold Hill operations which occurred in the 1930's.



49° 15' 49° 00' 119° 15' U.S.A. 119° 00'

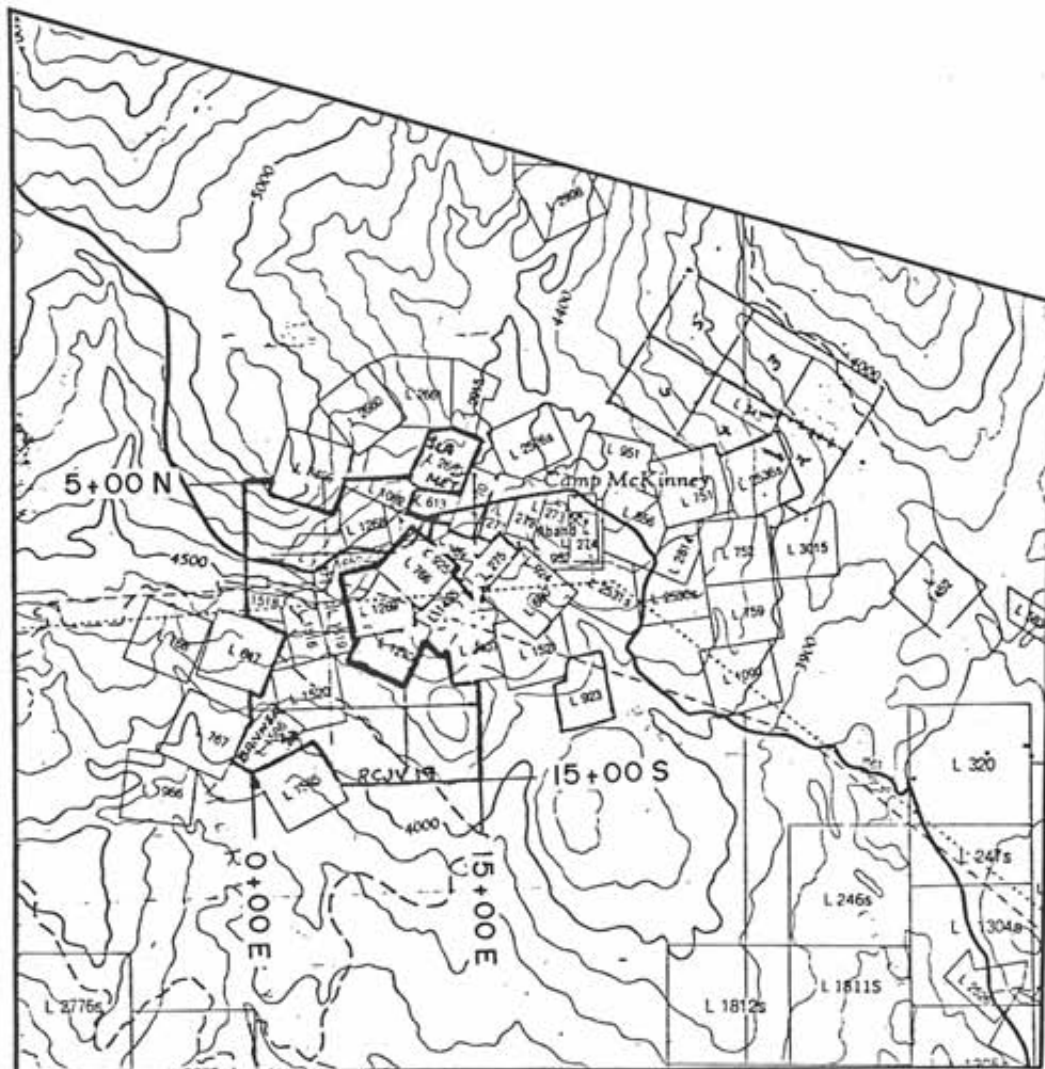


**MINTEK RESOURCES LTD.**  
**RCJV 19 PROJECT**  
 MAP I N.T.S. 82E

**LOCATION MAP**



SCALE: 1:250 000  
 DATE: FEBRUARY 1984  
 GEOLOGIST: I. R. CORVALAN  
 DRAWN BY: S. HAWORTH



<b>MINTEK RESOURCES LTD.</b>	
<b>RCJV 19 PROJECT</b>	
MAP 2	N.T.S. 82E/3
<b>CLAIM MAP</b>	
Km 1      0      1      2 Km	
SCALE: 1:50000	GEOLOGIST: I.R. CORVALAN
DATE: FEBRUARY 1984	DRAWN BY: S. HAWORTH

## History cont'd :

The only exploration work done in the RCJV-19 area was a geochemical survey carried out by Rock Creek Joint Venture in 1981 which detected several interesting gold anomalies. The 1983 exploration program was designed to verify these anomalies and to carry out a small trenching program.

## Geology :

The area is underlain primarily by metavolcanics and metasediments of the Permian/Triassic Anarchist group, intruded by the Nelson intrusive group. Most of the claim area is covered by Tertiary volcanics, outcrops and sparse.

## Mineralization :

The only mineralized outcrops are in the workings of the Banner claims. The mineral occurrence consists of a quartz vein hosted in a granitic rock, samples taken by G. Allen (1981) across the width gives the following results;

<u>Location</u>	<u>Width</u>	<u>Au(oz/t)</u>	<u>Ag(oz/t)</u>
Mainshaft	50cm	0.003	0.038
5m from H.S.	60cm	0.007	0.082
Shaft No. 2	35cm	0.005	0.020

## Summary of Work Done :

A total of 21 soil samples were taken on and around two of the anomalous areas detected by the 1981 exploration program. No trenching was carried out, most of the anomalous values are located in low and flat sectors of deep sediment accumulation.

## Survey Grid :

We utilized grid established by G. Allen, 1981 (distance between lines 100m, between sample stations 50m. To delineate anomalous area

## Soil Sampling :

Samples were collected every 10m. The soil sample holes were dug to 25cm (B horizon), swamp areas were not sampled. The samples were collected by hand and placed in water resistant enveloped where they remained until analysis. The soil profile showed a continuous ash horizon.

## Sample Analysis :

The soil samples were delivered to Roszbacher Laboratories, Burnaby, B.C. They were first dried and sieved to - 80 mesh, silver sample portions were digested using perchloric acid and analysed by A.A. Au sample portions were digested using aqua regia and then extracted into methyl isobutyl quetona and assayed by A.A.

## Interpretation :

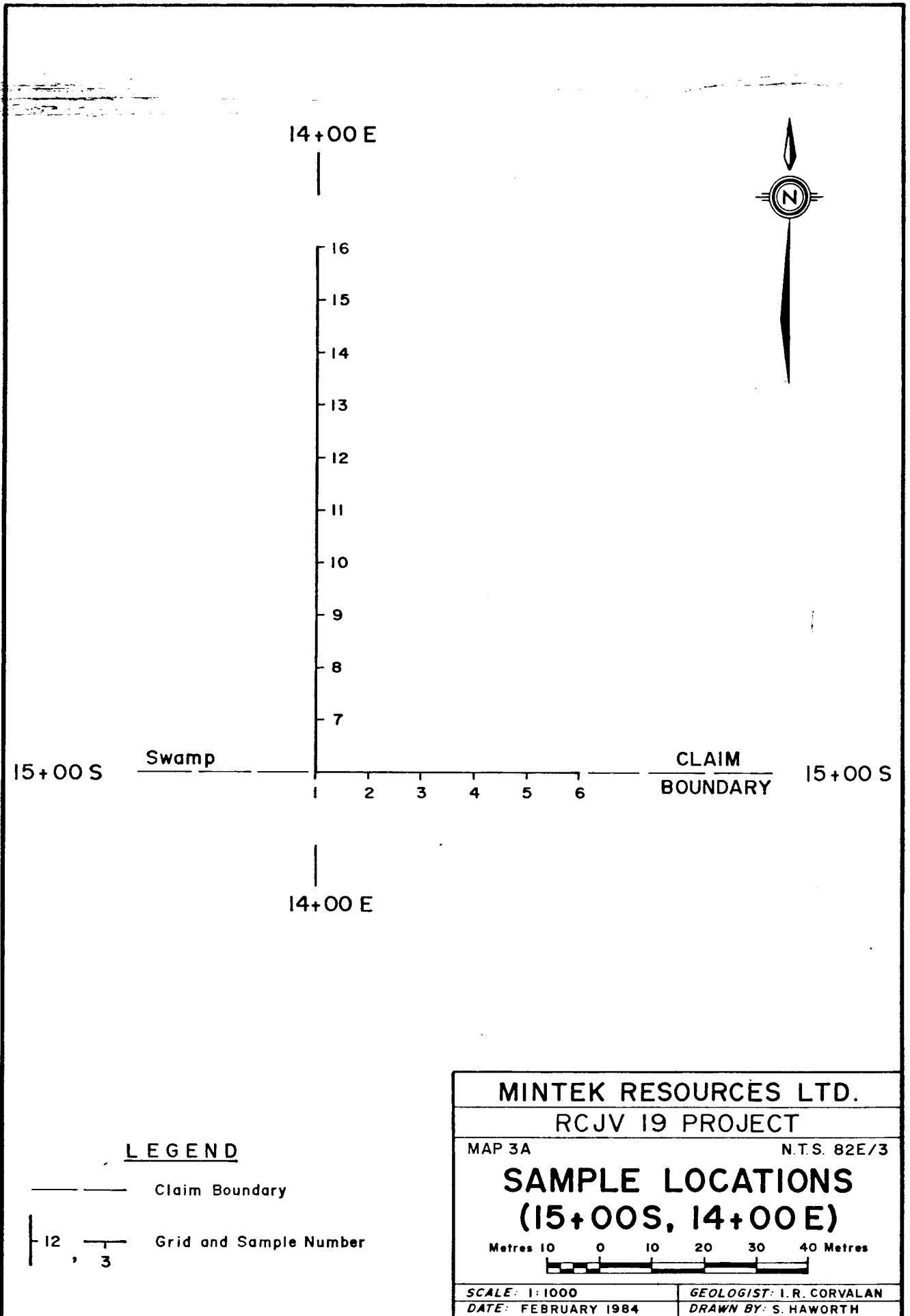
No value above the limit of detection was found, this indicated that geochemistry is not a good method to identify mineralized occurrences in this sector.

## Conclusions :

The geochemical sampling attempting to delimit area of potential mineralization based on the 1980 program proved that anomalies detected by that survey seems to be related to contamination with almost continous ash horizon.

## Recommendation :

Any further exploration must be centered along quartz structures found in the reverted crown grants. The swampy characteristic of this area made the use of geochemistry difficult as a prospecting tool.



14+00 E



16  
15  
14  
13  
12  
11  
10  
9  
8  
7

15+00 S

Swamp

CLAIM  
BOUNDARY

15+00 S

1 2 3 4 5 6

14+00 E

**LEGEND**

- — — Claim Boundary
- | 12 — — — Grid and Sample Number  
3

**MINTEK RESOURCES LTD.**

**RCJV 19 PROJECT**

MAP 3A

N.T.S. 82E/3

**SAMPLE LOCATIONS  
(15+00S, 14+00E)**

Metres 10 0 10 20 30 40 Metres



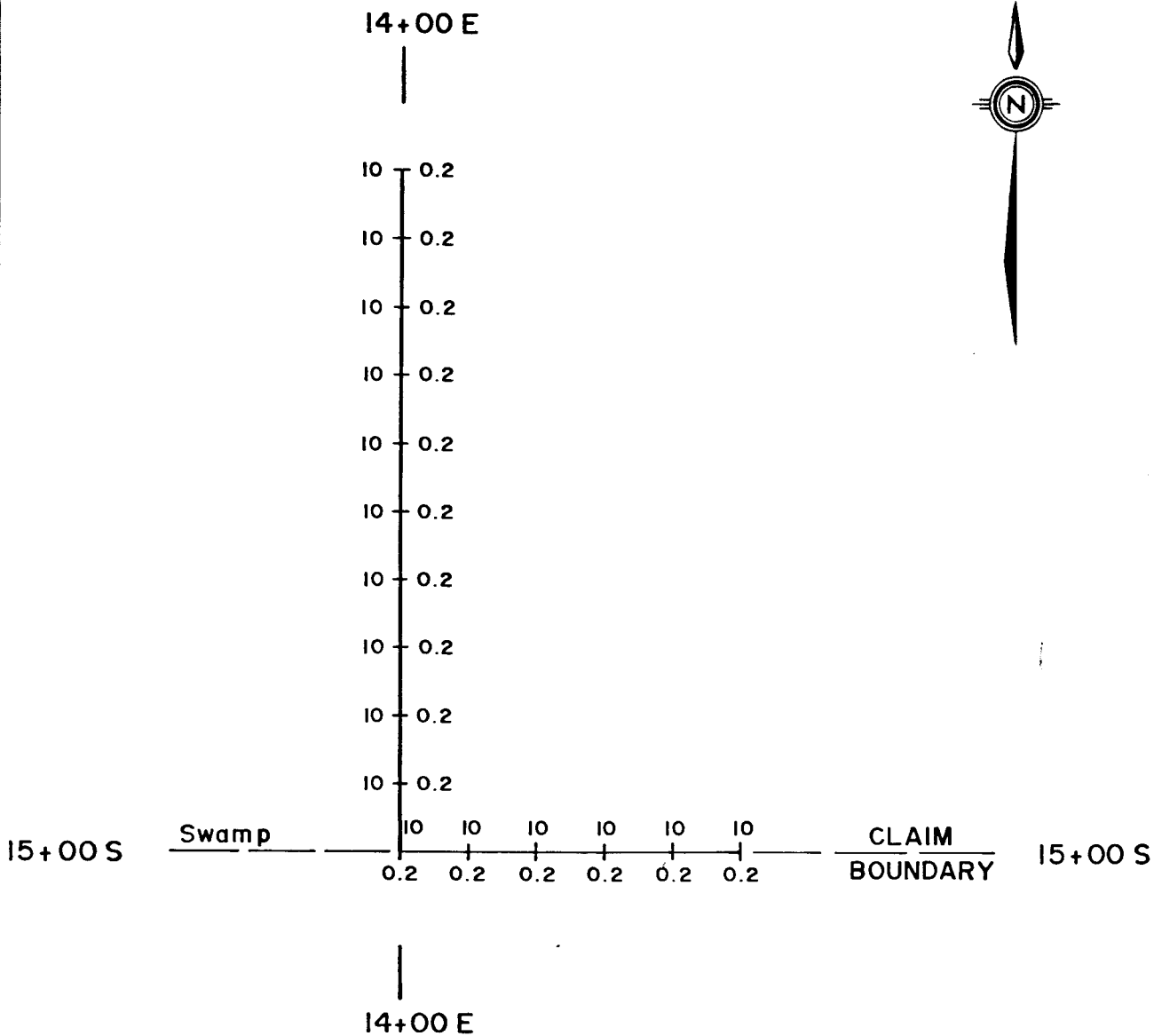
SCALE: 1:1000

GEOLOGIST: I.R. CORVALAN

DATE: FEBRUARY 1984

DRAWN BY: S. HAWORTH

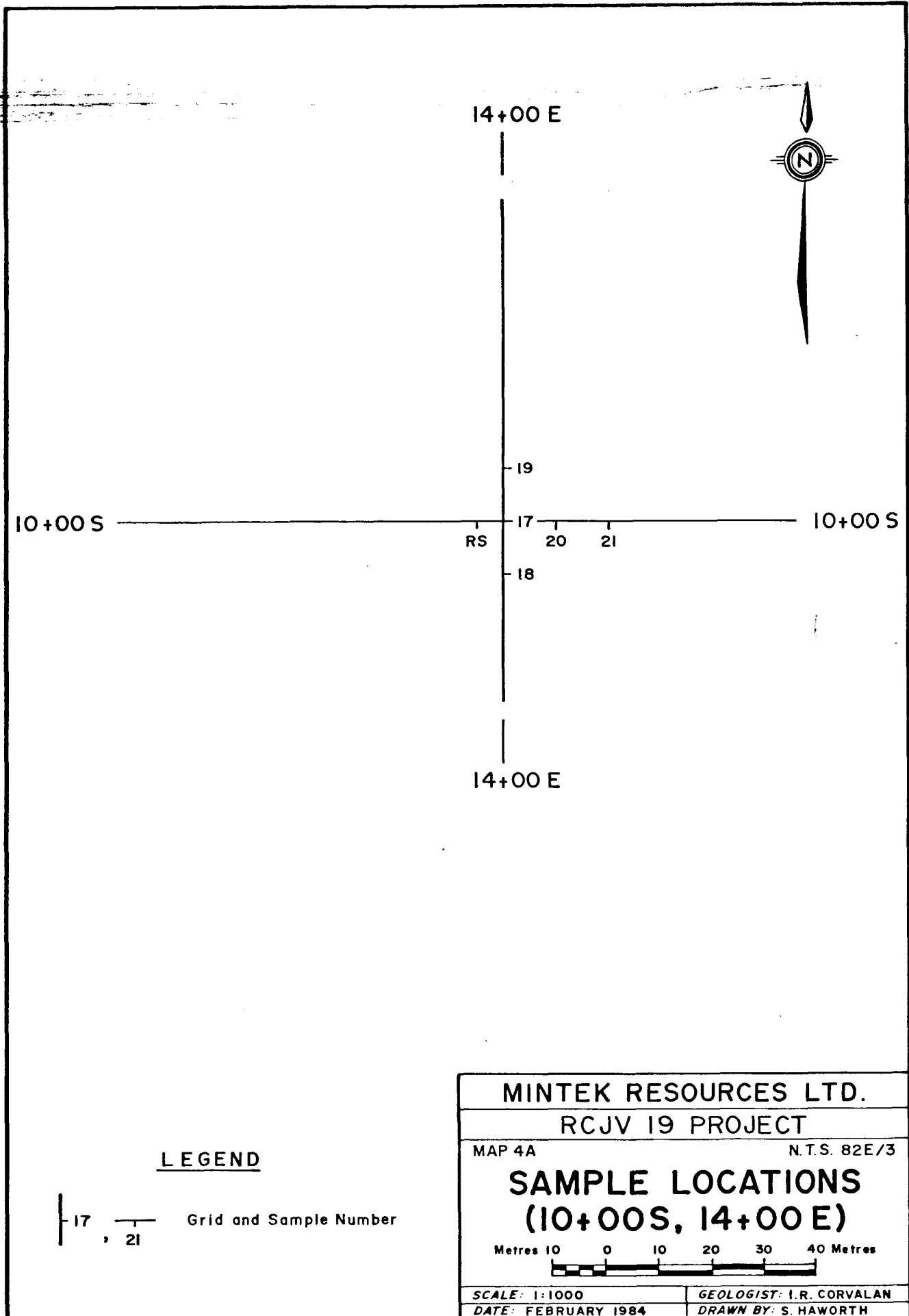




**LEGEND**

——— Claim Boundary  
 Au + Ag, + Au Geochemical Results -  
 Ag Ag Au (ppb), Ag (ppm)

<b>MINTEK RESOURCES LTD.</b>	
<b>RCJV 19 PROJECT</b>	
MAP 3B	N.T.S. 82E/3
<b>GEOCHEMICAL RESULTS</b>	
<b>(15+00S, 14+00E)</b>	
Metres 10 0 10 20 30 40 Metres 	
SCALE: 1:1000	GEOLOGIST: I. R. CORVALAN
DATE: FEBRUARY 1984	DRAWN BY: S. HAWORTH



MINTEK RESOURCES LTD.

RCJV 19 PROJECT

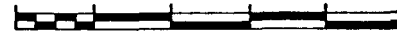
MAP 4A

N.T.S. 82E/3

**SAMPLE LOCATIONS**

**(10+00S, 14+00E)**

Metres 10 0 10 20 30 40 Metres



SCALE: 1:1000

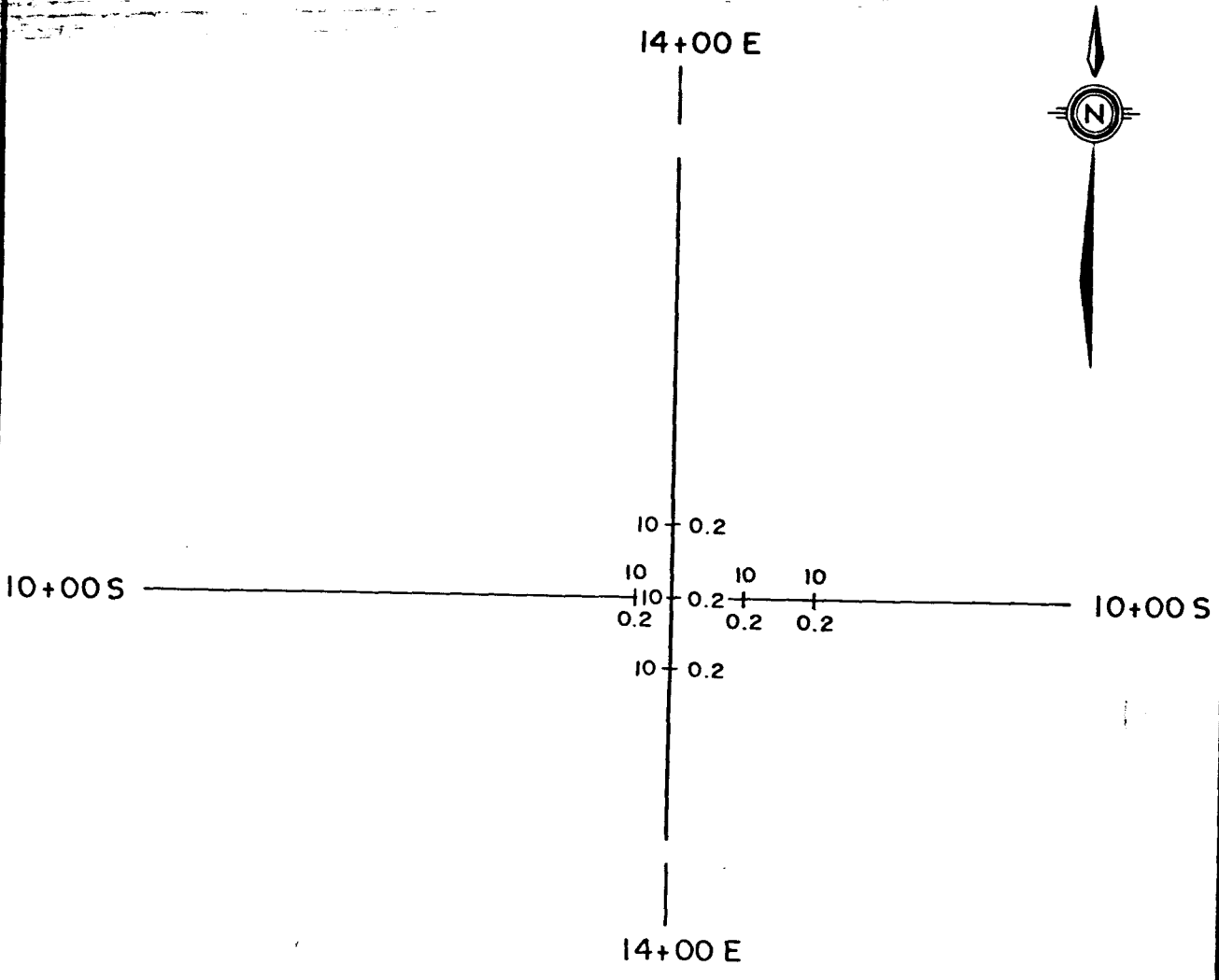
GEOLOGIST: I.R. CORVALAN

DATE: FEBRUARY 1984

DRAWN BY: S. HAWORTH

LEGEND

| 17 ——— Grid and Sample Number  
| 21 ———



LEGEND

Au Ag, Au/Ag  
 Geochemical Results -  
 Au (ppb), Ag (ppm)

MINTEK RESOURCES LTD.

RCJV 19 PROJECT

MAP 4B

N.T.S. 82E/3

**GEOCHEMICAL RESULTS**

**(10+00S, 14+00E)**

Metres 10 0 10 20 30 40 Metres



SCALE: 1:1000

DATE: FEBRUARY 1984

GEOLOGIST: I. R. CORVALAN

DRAWN BY: S. HAWORTH

BIBLIOGRAPHY

ALLEN, Guy, 1981 - Geochemical Report on the RCJV No. 19  
Property - Company Report

REINECKE, L., 1915 "Ore Deposits of the Beaverdell  
Map Area" G.S.C. Memoir 79

ANNEX #1

## EXPENDITURES ON RCJV-19 CLAIM GROUP (June 27-29)

Wages and salaries		
I.R. Corvalan	3 days @ \$200/day	\$ 600.00
J. Agar	3 days @ \$100	300.00
Geochemical Sampling		
22 samples Au @ \$3.50 each		77.00
22 samples Ag @ \$1.80 each		39.60
21 soil samples prep. @ \$0.50 each		10.50
1 rock sample prep. @ \$2.00 each		2.00
	TOTAL	129.10
Room and Board		
Meals 6 x \$30 each		180.00
Hotel \$45/day for 3 days		135.00
Transportation		
Truck rental	2 days @ 40 each	80.00
Gas		20.00
Drafting and maps		200.00
Report preparation		600.00
	TOTAL	<u>\$2,453.00</u>

ANNEX #2

IN MATTER OF THE  
B.C. MINERAL ACT

AND

IN MATTER OF A GEOCHEMICAL AND TRENCHING  
PROGRAM CARRIED OUT ON THE

RCJV 19 CLAIM GROUP

LOCATED IN THE GREENWOOD MINING DIVISION

OF THE PROVINCE OF BRITISH COLUMBIA

MORE PARTICULARLY N.T.S. 82E/3

A F F I D A V I T

I, I. RUBEN CORVALAN, P. ENG., OF THE CITY DISTRICT OF  
NORTH VANCOUVER IN THE PROVINCE OF BRITISH COLUMBIA,  
MAKE OATH AND SAY:

1. THAT I AM AN EMPLOYEE OF IMPERAL METALS CORPORATION  
AND AS SUCH HAVE A PERSONAL KNOWLEDGE OF THE FACTS TO  
WHICH I HEREINAFTER DISPOSE;
2. THAT ANNEXED HERETO AND MARKED AS "ANNEX #1" IS A  
TRUE COPY OF EXPENDITURES ON A GEOCHEMICAL AND TRENCHING  
PROGRAM CARRIED OUT ON THE RCJV 19 CLAIM GROUP;
3. THAT THE SAID EXPENDITURES WERE INCURRED WITHIN THE  
PERIOD JUNE 27 - JUNE 29, FOR THE PURPOSE OF MINERAL  
EXPLORATION ON THE ABOVE CLAIMS.

I.R. CORVALAN, P.ENG.

CIMA RESOURCES LIMITED  
STATEMENT OF QUALIFICATIONS

I, I. RUBEN CORVALAN, P. ENG. OF THE CITY OF NORTH VANCOUVER, BRITISH COLUMBIA, HEREBY CERTIFY;

1. THAT I AM PROFESSIONAL ENGINEER RESIDING AT #117 - 908 BERKLEY ROAD, NORTH VANCOUVER, BRITISH COLUMBIA;
2. THAT I GRADUATED WITH A MINING ENGINEERING DEGREE FROM THE UNIVERSITY OF CHILE, CHILE, IN 1969;
3. THAT I HAVE PRACTICED GEOLOGY AND GEOCHEMISTRY WITH EMPRESA NACIONAL DE MINERIA, SANTIAGO, CHILE FROM 1966 TO 1970, WITH CIMA RESOURCES LIMITED FROM 1980 TO SEPTEMBER 1982, AND WITH IMPERIAL METALS CORPORATION FROM APRIL 1983 TO PRESENT.

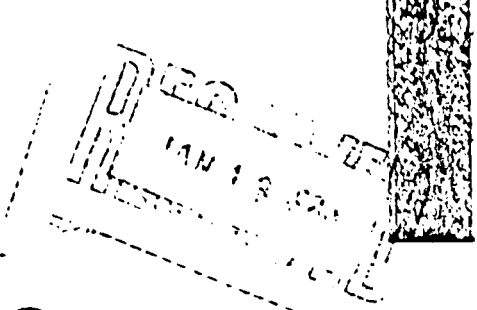
DATED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 19\_\_\_\_  
AT VANCOUVER, BRITISH COLUMBIA.

SIGNED \_\_\_\_\_

I.R. CORVALAN, P.ENG.

**ANNEX #4**  
**SAMPLE RESULTS**





# Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.  
 BURNABY, B. C.  
 CANADA  
 TELEPHONE: 299-6910  
 AREA CODE: 604

IMPERIAL METALS LTD.  
United Kingdom Bld.  
Vancouver, B.C.  
Cina Resources, R. Corvalan

DATE AUG 21, 1983

INVOICE NO. 3216

CERTIFICATE NO. 83243

ITEM	DESCRIPTION	SUB-TOTAL	TOTAL
3	Geochem analysis for 4 elements @ \$ 3.35	\$ 10.05	
79	3	229.10	
11	2	26.40	
39	1	70.20	
125	Au	437.50	
103	Soil sample prep	51.50	
29	Rock sample prep	58.00	
			<u>\$ 882.75</u>

# Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

BURNABY, B. C. Page 16  
 CANADA  
 TELEPHONE: 299-6910

## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 83243-3  
 INVOICE NO. 3216  
 DATE ANALYSED 83/07/25  
 PROJECT CIMA RESOURCES

TO: IMPERIAL METALS LTD.  
 United Kingdom Bld.  
 Vancouver, B.C.

No.	Sample	pH	Mo	Cu	Ag	Zn	Pb	PPB Au				No.
01	S#J-56				0.2	70	6	10				01
02	57				0.2	50	2	10				02
03	58				0.2	74	4	10				03
04	S#J-59				0.2	72	4	10				04
05	RCJVS# 1				0.2			10				05
06	2				0.2			10				06
07	3				0.2			10				07
08	4				0.2			10				08
09	5				0.2			10				09
10	RCJVS# 6				0.2			10				10
11	7				0.2			10				11
12	8				0.2			10				12
13	9				0.2			10				13
14	10				0.2			10				14
15	11				0.2			10				15
16	12				0.2			10				16
17	13				0.2			10				17
18	RCJVS# 14				0.2			10				18
19	15				0.2			10				19
20	16				0.2			10				20
21	17				0.2			10				21
22	18				0.2			10				22
23	19				0.2			10				23
24	20				0.2			10				24
25	21				0.2			10				25
26	RCJVS# 19 Rock				0.2			10				26
27												27
28												28
29												29
30												30
31												31
32												32
33												33
34												34
35												35
36												36
37												37
38												38
39												39
40												40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by J. J. Rossbacher