

MQ Report #60
Ref: RM605

ROCHE CLAIMS

GEOCHEMISTRY

Kamloops Mining Division

N.T.S. 92 I/14

Latitude 50°46'N Longitude 121°06'W

UTM 634000mE, 5626000mN

By

S.L. Ridley

of

MineQuest Exploration Associates Limited

<u>Claim Name</u>	<u>Record No.</u>	<u>Units</u>	<u>Month Recorded</u>
Roche I	4371	18	March 04, 1983
Roche II	4372	18	March 04, 1983

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

12,264

April, 1984

TABLE OF CONTENTS

	<u>Page</u>
1.0 INTRODUCTION	1
2.0 LOCATION, ACCESS AND TOPOGRAPHY	2
3.0 OWNERSHIP AND CLAIM STATUS	3
4.0 HISTORY AND PREVIOUS WORK	4
5.0 WORK CARRIED OUT IN 1983	5
5.1 Silt Sampling	5
5.2 Soil Sampling	5
5.3 Heavy Mineral Sampling	5
5.4 Laboratory Methods	6
5.5 Personnel	6
6.0 GEOLOGY	7
7.0 RESULTS	8
7.1 Silt Sampling	8
7.2 Soil Sampling	8
8.0 CONCLUSIONS	9
9.0 REFERENCES	10

LIST OF ILLUSTRATIONS

<u>Figure</u>		<u>Page</u>
1.	Location Map (Plan 591)	after page 2
2.	Geochemistry: Silt and Soil Composite Sample Locations (Plan 472)	in pocket
3a.	Geochemistry: Silt Sample Results (Plan 593)	in pocket
3b.	Geochemistry: Soil Sample Results (Plan 594)	in pocket

LIST OF TABLES

	<u>Page</u>
I. Claim Status	3

LIST OF APPENDICES

- | | |
|--------------|---|
| Appendix I | Laboratory Reports
Ia Silt Samples
Ib Soil Composite Samples |
| Appendix II | Cumulative Curves for
Analytical Data on
IIa Silt Samples
IIb Soil Composite Samples |
| Appendix III | Statement of Qualifications |
| Appendix IV | Cost Statement |

1.0

INTRODUCTION

The Roche claims were staked on the basis of gold associated with anomalous quantities of arsenic in heavy mineral samples taken from stream sediments. Work described in this report consisted of follow-up silt and soil sampling directed at locating the source of gold found in heavy mineral concentrates.

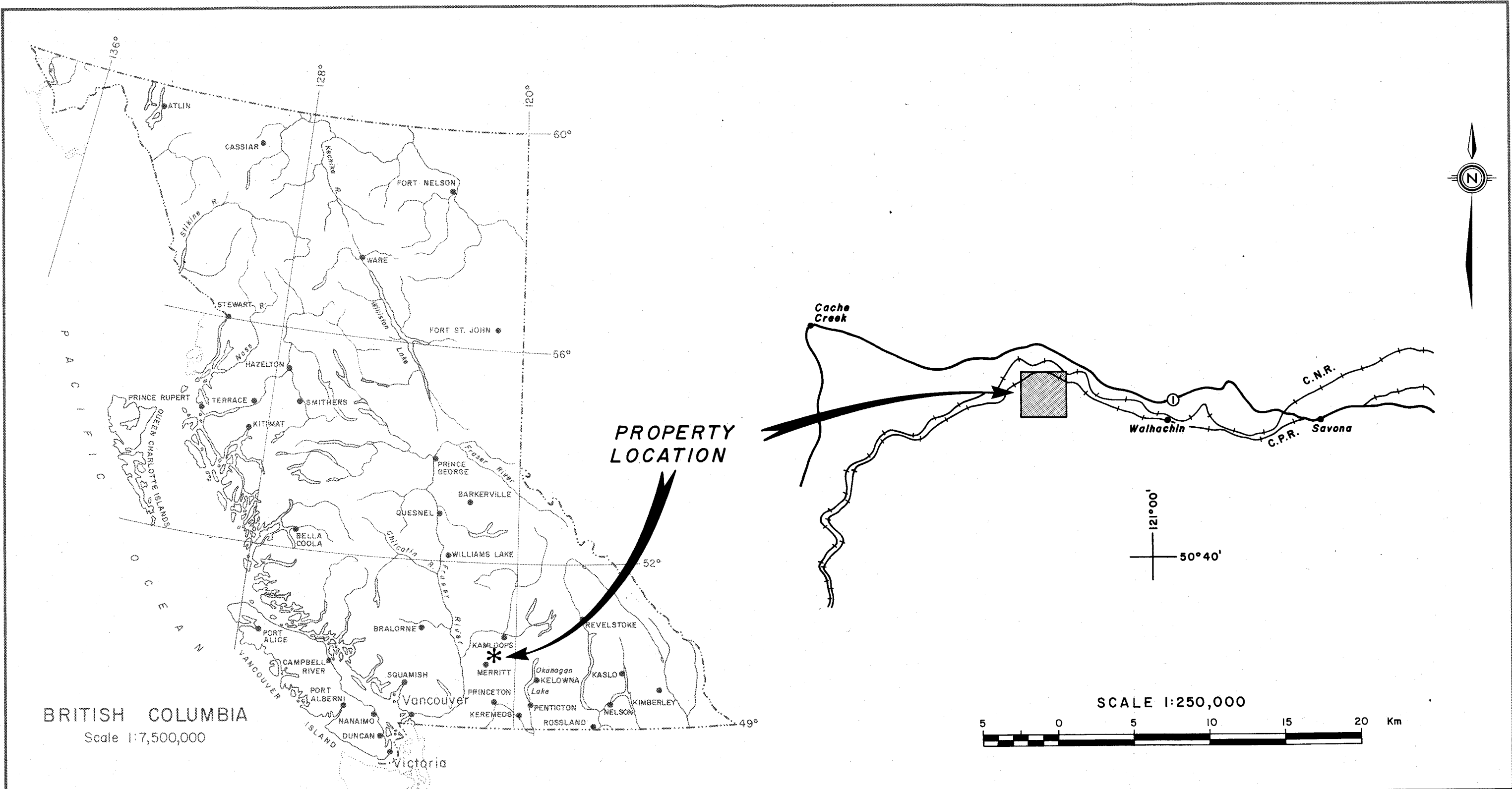
2.0

LOCATION, ACCESS AND TOPOGRAPHY

The Roche claims are located 13km east-northeast of Ashcroft and 16km east of Cache Creek along the Thompson River Valley at the townsite of Semlin.

Access to the property is provided by an unpaved road intersecting the Trans-Canada Highway 22km east of Cache Creek and by 7km of logging road and track which leaves the unpaved road 2km from the Highway.

The claims are situated on the south bank of the Thompson. Topography consists of a moderately steep north facing slope. Elevation ranges from 915m (3,000 feet) to 365m (1,200 feet) in the valley.



BRITISH COLUMBIA
Scale 1:7,500,000

SCALE 1:250,000



GOLDQUEST I PARTNERSHIP			
ROCHE CLAIMS			
LOCATION MAP			
PLAN NO. 591	DRAWN	DATE APRIL, 1984	FIGURE 1
Revised		N.T.S. 92 I	
MINEQUEST EXPLORATION ASSOCIATES LTD.			

3.0

OWNERSHIP AND CLAIM STATUS

The claims listed below are held by MineQuest Exploration Associates Limited on behalf of GoldQuest I, a General Limited Partnership.

TABLE I
CLAIM STATUS

<u>Claim Name</u>	<u>Record Number</u>	<u>No. of Units</u>	<u>Due date before submission of this report</u>
Roche I	4371	18	March 04, 1984
Roche II	4372	18	March 04, 1984

4.0

HISTORY AND PREVIOUS WORK

Previous Names: Riverside

MinDep File 92I NW 087

Pyrophyllite in schist in an altered zone in a rhyolite porphyry.

No other work is reported on the claim area and no previous work has been carried out by MineQuest Exploration Associates Ltd.

5.0 WORK CARRIED OUT IN 1983

5.1 Silt Sampling *Fine silts from active/dry seasonal streams*

In 1983 58 silt samples were collected at 100m intervals on all major creeks across the claim block (Figure 2). These samples were analysed for lead, silver, arsenic and gold.

5.2 Soil Sampling *B/C horizon, shallow, B not well developed*

In 1983 193 soil samples were collected at 10m intervals along a contour soil line as illustrated in Figure 3a. The soil samples were composited in groups of ten with each composite overlapping the neighbouring composites by five samples. Thirty eight composite samples were analysed for lead, silver, antimony, arsenic and gold.

5.3 Heavy Mineral Sampling

Heavy mineral samples were collected from streams crossing the claim block. This sampling is not being filed as assessment work and thus neither results nor expenditures are included in this report.

5.4 Laboratory Methods

Soil composite and silt samples were sent to Bondar-Clegg and Company where they were dried and sieved to -80 mesh.

An aqua regia digestion (a 1:3 ratio of nitric and hydrochloric acid) followed by an atomic absorption determination is used to analyse lead and silver. Arsenic is determined with a nitric-perchloric digestion and a colourimetric determination. Gold extraction is accomplished through fire assay, followed by aqua regia digestion of the dore bead. Extraction is followed by an atomic absorption determination.

In the soil samples antimony is extracted through a process using a hydrochloric solution and a TOPO-MIBK mixture. The extraction is followed by an atomic absorption determination.

Pulps are stored by MineQuest Exploration. Samples producing questionable results are re-analysed.

5.5 Personnel

Silt and soil sampling was carried out by P. Martin (Supervisor), G. Stewart, J. Norris and S. Graham under the direction of R.V. Longe of MineQuest Exploration Associates Ltd.

6.0

GEOLOGY

Duffell and McTaggart (1952) published a map of the Ashcroft area. The northeast corner of the Roche claim block is underlain by Upper Triassic Nicola basalt and andesite flows, tuffs and agglomerates. The volcanics are in contact with a Lower Jurassic Guichon Creek batholith to the north and are capped by Tertiary Kamloops Group basalts to the southwest.

7.0

RESULTS7.1 Silt Sampling

Silt samples collected along the streams illustrated in Figure 2, were analysed for lead, silver, arsenic and gold. Results are presented in Figure 3b and in Appendix Ia. Cumulative plots for the elements analysed are presented in Appendix IIa. Threshold values from the curves are:

Pb	12 ppm
As	8 and 25 ppm
Au	10 ppb

A moderate arsenic anomaly associated with detectable gold is present in the central portion of the claim block. The anomaly is also detected in soils.

7.2 Soil Sampling

Composited samples were analysed for lead, silver, arsenic, gold and antimony. Results are presented in Figure 3b and Appendix Ib. Cumulative curves are presented in Appendix IIb. Thresholds from the plots are:

As	12 and 20 ppm
Au	10 ppb

Antimony and arsenic are anomalous in the central part of the claim block, coincident with an anomaly in the silt sampling. Little gold was detected in the soil samples.

8.0

CONCLUSIONS

The results from the geochemical sampling program are moderate but encouraging in that both soils and silts focused interest to the same zone. Further soil sampling, rock sampling and geologic mapping is necessary to further assess the Roche claims.

9.0

REFERENCES

Duffell, S. and McTaggart, K.C., 1952
Ashcroft Map-Area
GSC Memoir 262, Map 1010A

APPENDIX I

Laboratory Reports

Ia Silt Samples Results

Ib Soil Composite Sample Results

APPENDIX Ia
Silt Sample Results

APPENDIX Ib
Soil Composite Sample Results



REPORT: 123-0969 PROJECT: GQ/RCH

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	As PPM	As PPM	Sb PPM	Au PPB	Pb PPM	NOTES
S GQC001		7	<0.2	6	0.2	<5	950	
S GQC002		7	<0.2	6	0.2	<5	1050	
S GQC003		6	<0.2	5	0.2	<5	1020	
S GQC004		6	<0.2	6	0.3	<5	1010	
S GQC005		7	<0.2	7	0.2	<5	960	
S GQC006		6	<0.2	10	0.4	<5	930	
S GQC007		7	<0.2	11	0.6	<5	920	
S GQC008		7	<0.2	10	0.5	<5	960	
S GQC009		7	<0.2	15	0.7	<5	960	
S GQC010		8	<0.2	30	0.7	<5	890	
S GQC011		7	<0.2	41	0.7	<5	900	
S GQC012		8	<0.2	48	0.8	<5	860	
S GQC013		8	0.3	42	0.9	<5	840	
S GQC014		8	0.4	28	0.7	<5	870	
S GQC015		8	0.2	30	0.7	<5	890	
S GQC016		7	<0.2	20	0.6	<5	920	
S GQC017		7	<0.2	16	0.6	30	910	
S GQC018		7	<0.2	13	0.5	<5	890	
S GQC019		7	<0.2	13	0.5	<5	900	
S GQC020		7	<0.2	14	0.5	<5	940	
S GQC021		7	<0.2	13	0.5	<5	910	
S GQC022		7	<0.2	11	0.4	<5	830	
S GQC023		7	<0.2	10	0.5	<5	830	
S GQC024		7	<0.2	11	0.4	<5	820	
S GQC025		7	0.2	11	0.4	<5	840	
S GQC026		7	<0.2	10	0.4	<5	850	
S GQC027		7	0.2	11	0.5	<5	830	
S GQC028		6	<0.2	9	0.4	<5	820	
S GQC029		5	<0.2	6	0.3	<5	790	
S GQC030		5	<0.2	7	0.4	50	810	
S GQC031		7	<0.2	7	0.4	<5	850	
S GQC032		8	<0.2	6	0.4	<5	900	
S GQC033		8	<0.2	7	0.3	<5	900	
S GQC034		8	<0.2	7	0.3	<5	890	
S GQC035		8	<0.2	7	0.3	<5	880	
S GQC036		7	<0.2	7	0.3	<5	900	
S GQC037		8	<0.2	6	0.5	<5	910	
S GQC038		8	<0.2	6	0.4	<5	900	

APPENDIX II

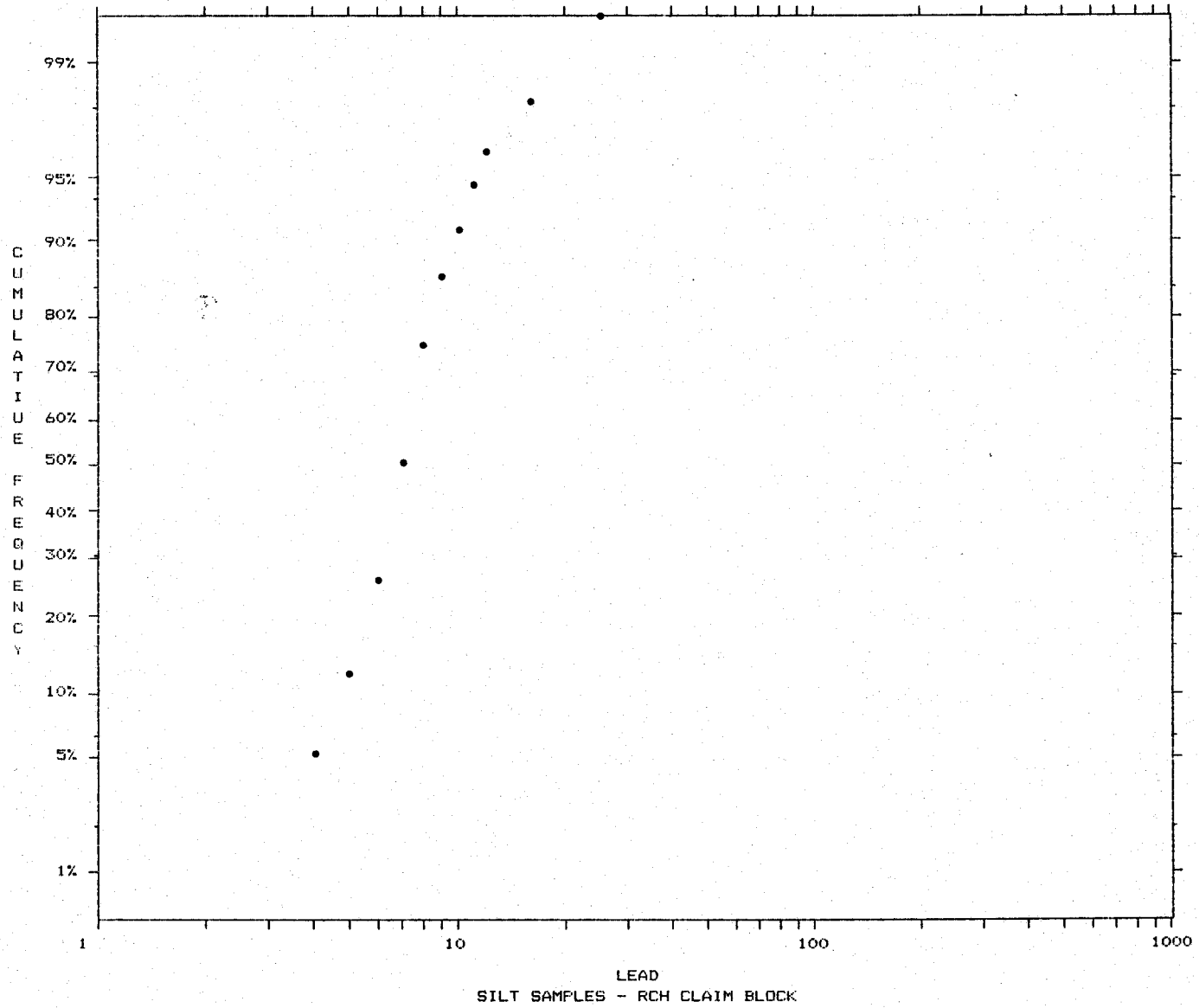
IIa Cumulative Curves for Analytical
Data on Silt Samples

IIb Cumulative Curves for Analytical
Data on Soil Composite Samples

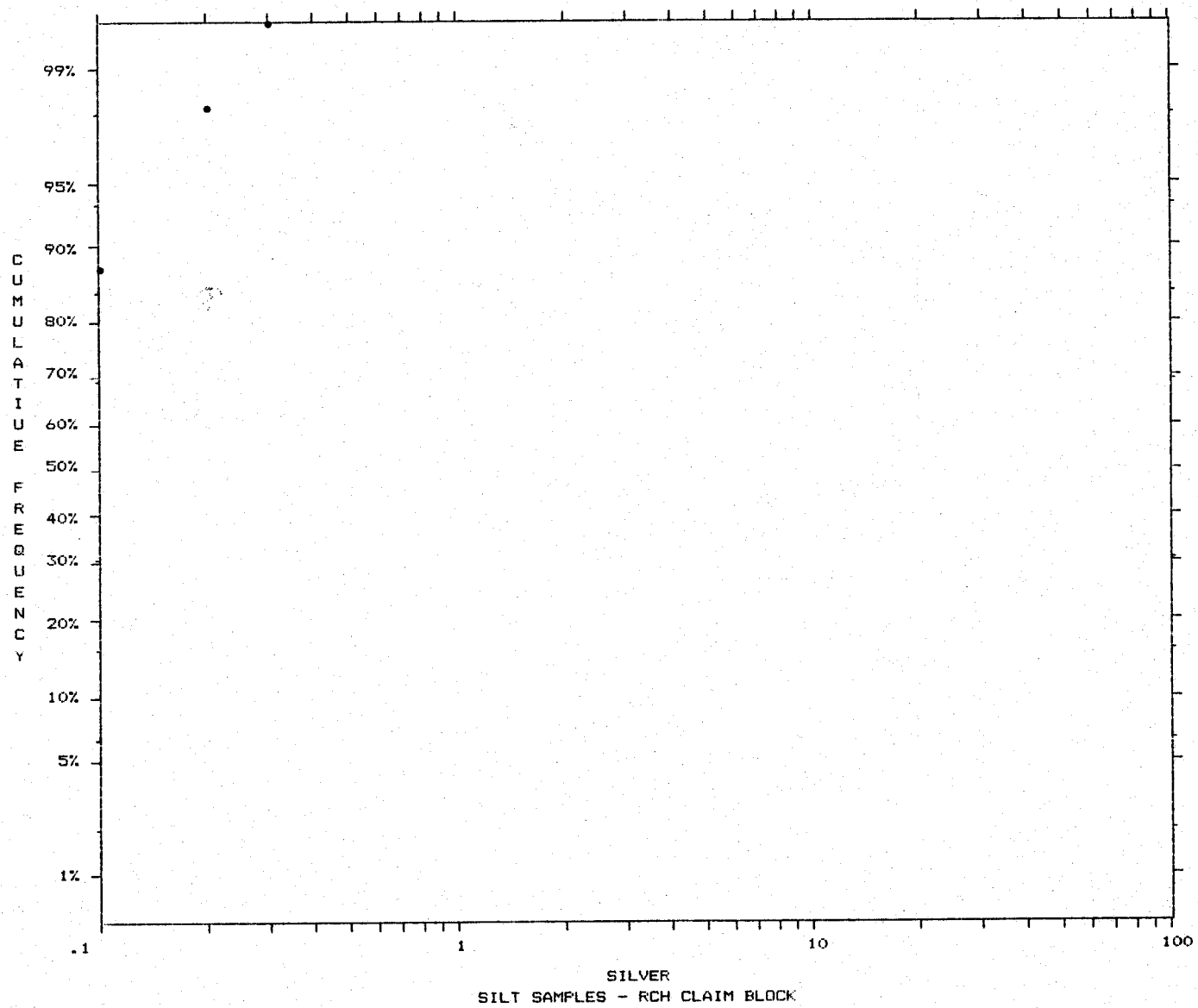
APPENDIX IIa

Cumulative Curves for Analytical
Data on Silt Samples

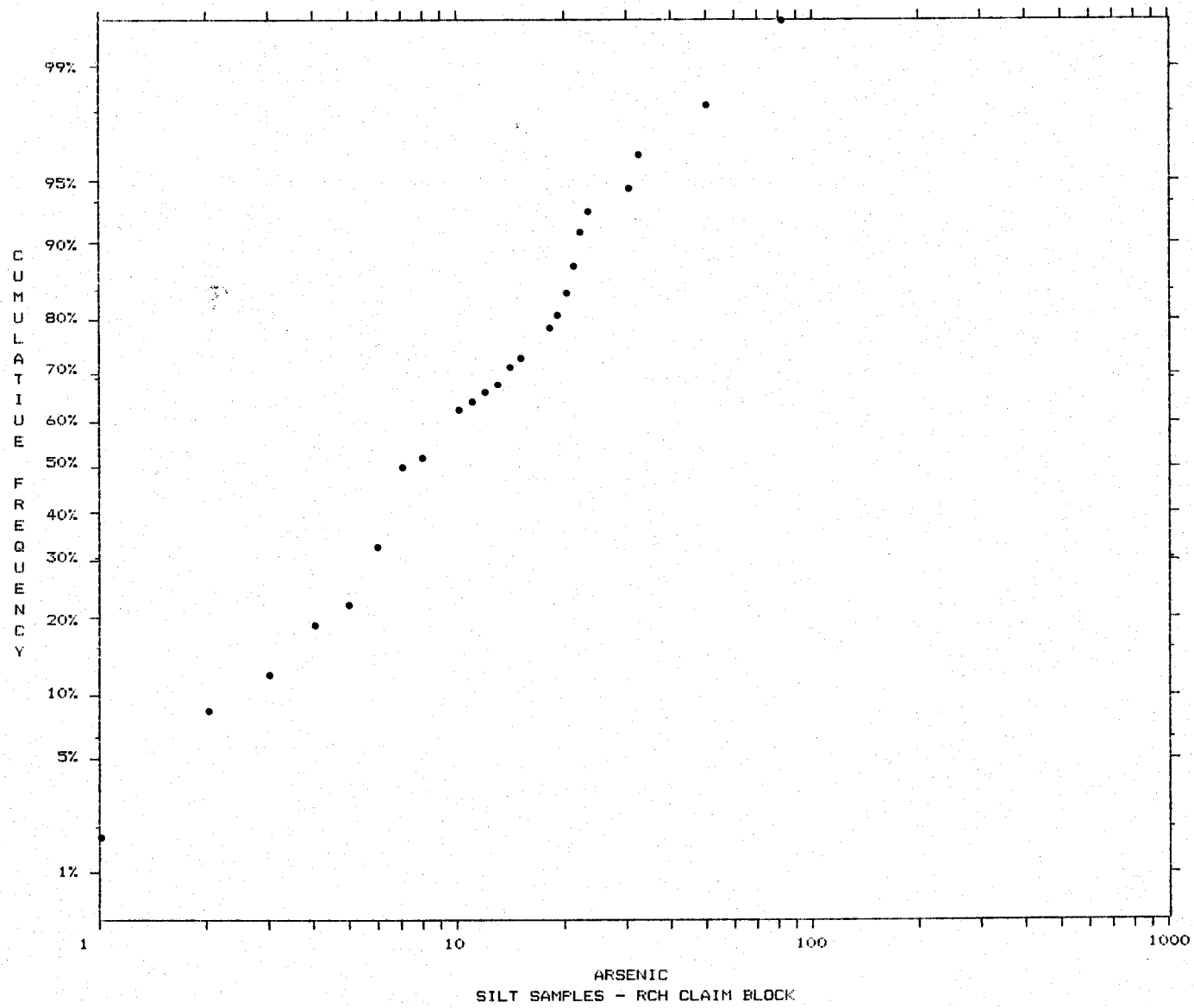
840325



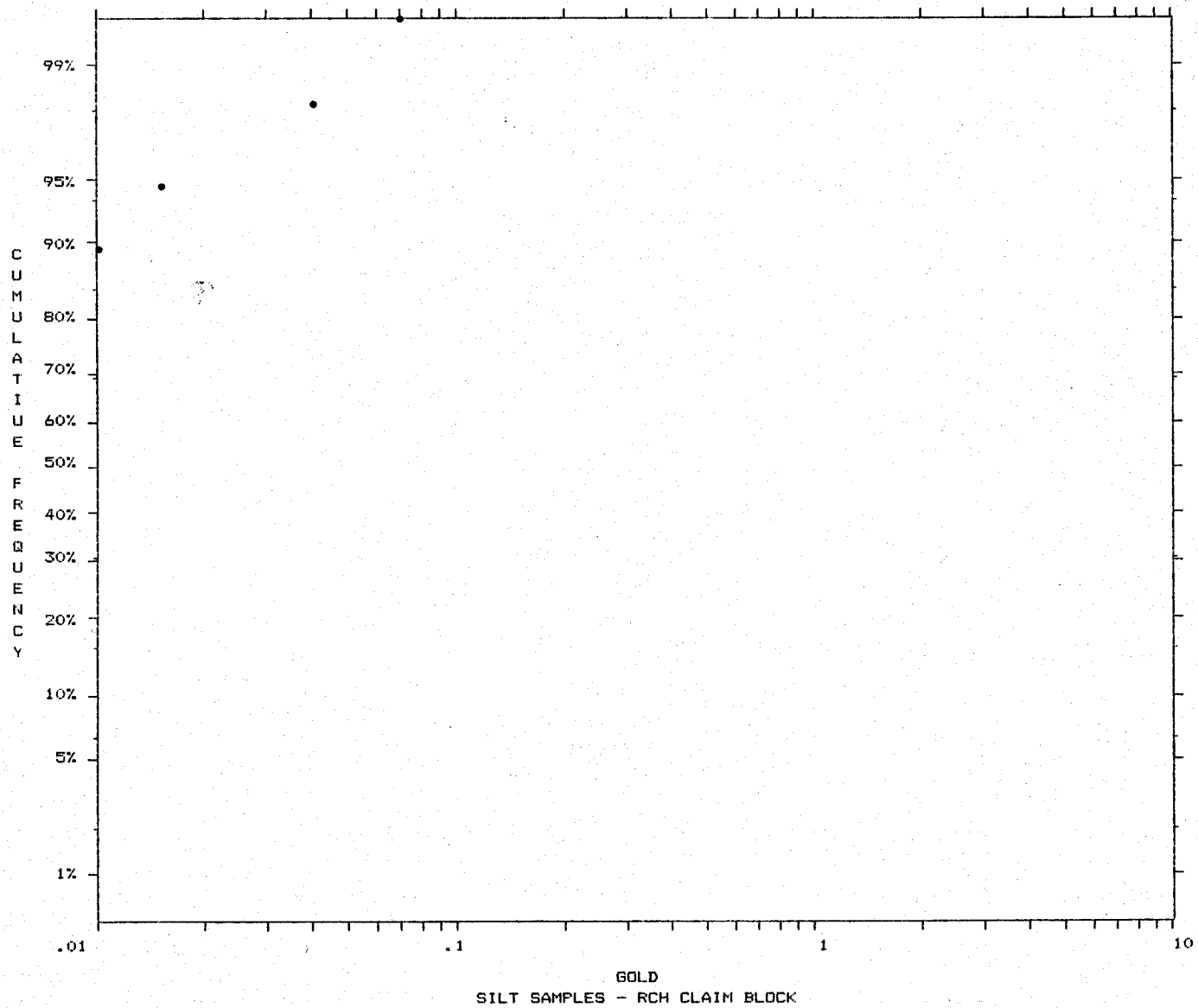
840325



840325



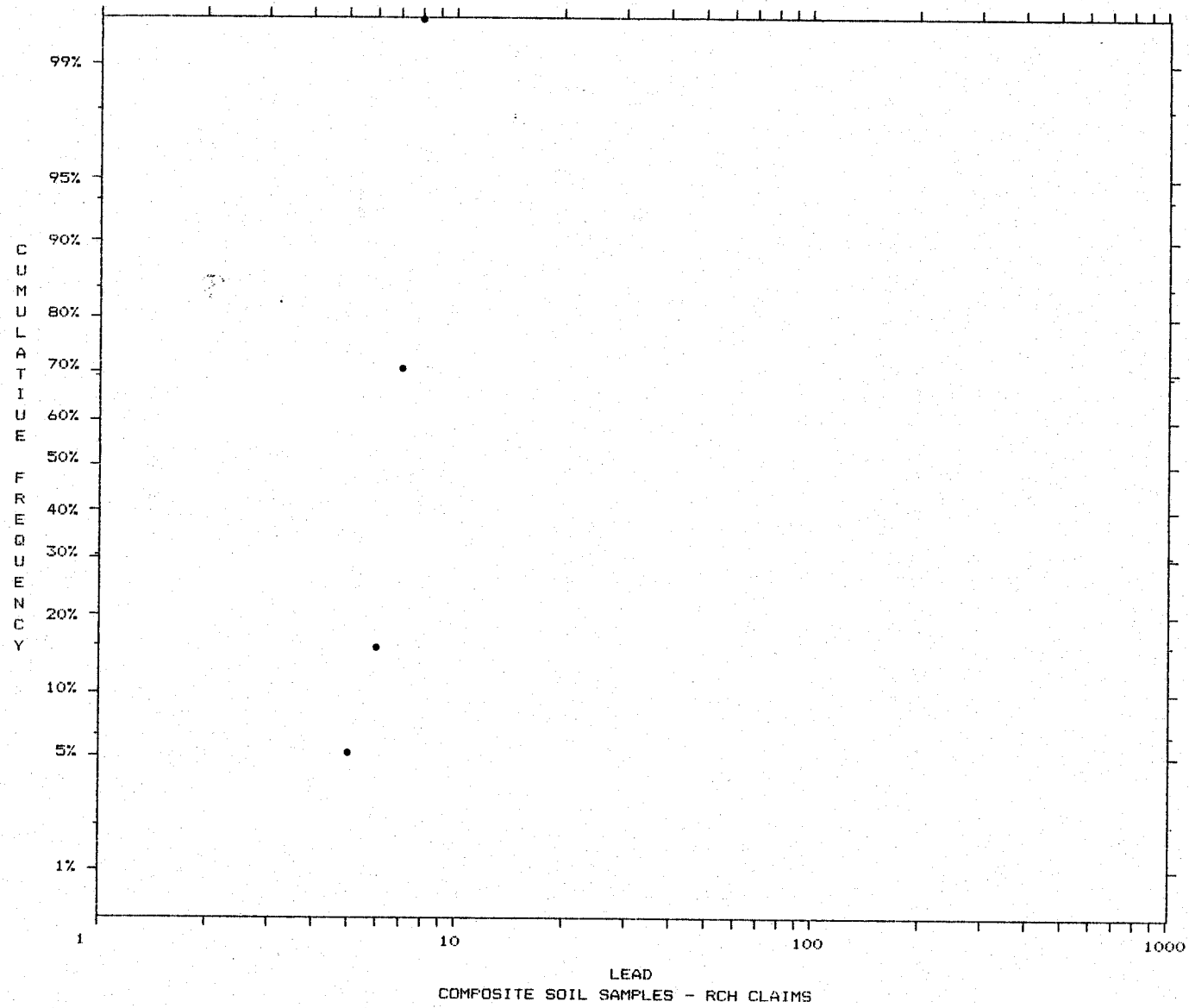
840325



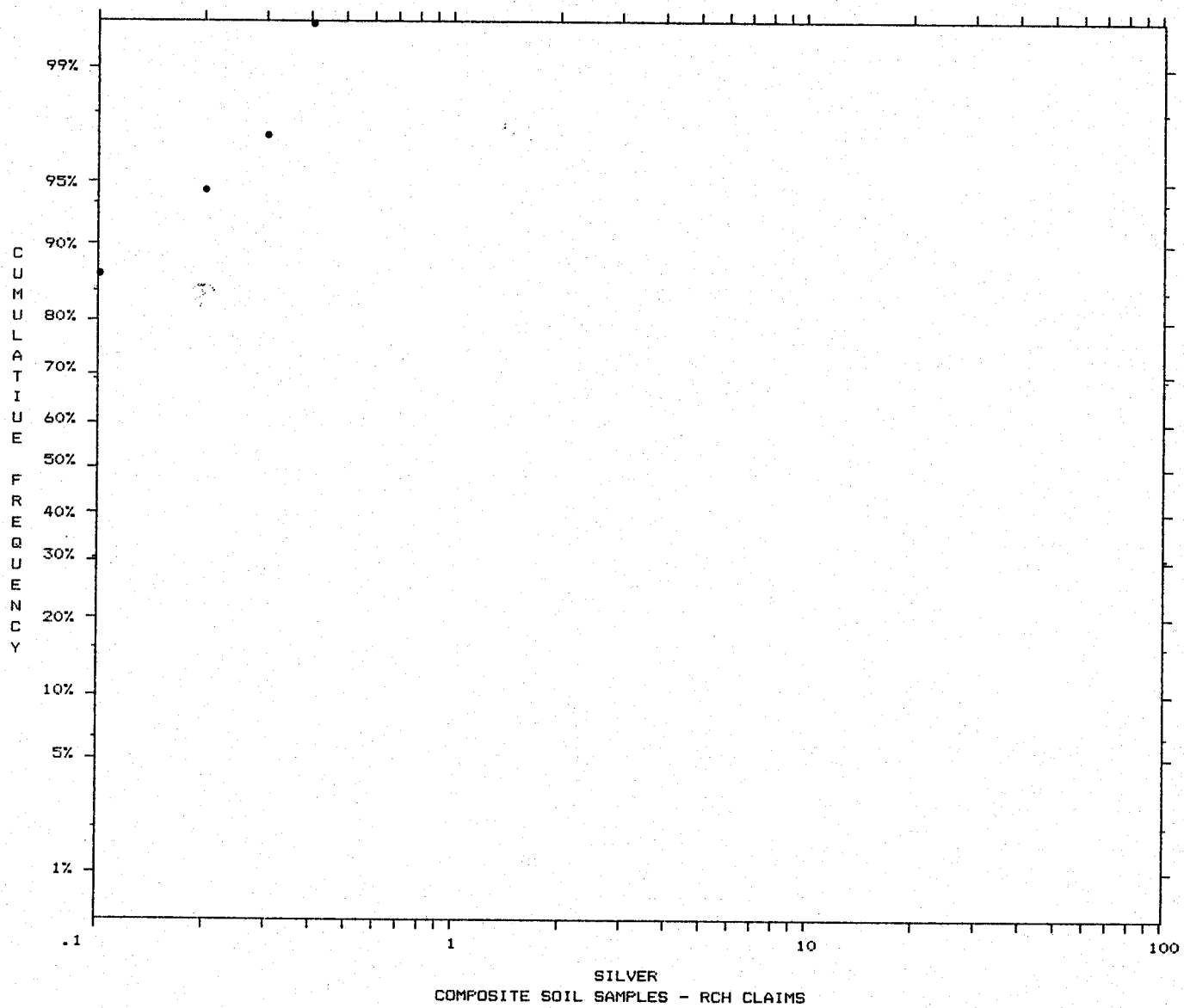
APPENDIX IIb

Cumulative Curves for Analytical
Data on Soil Composite Samples

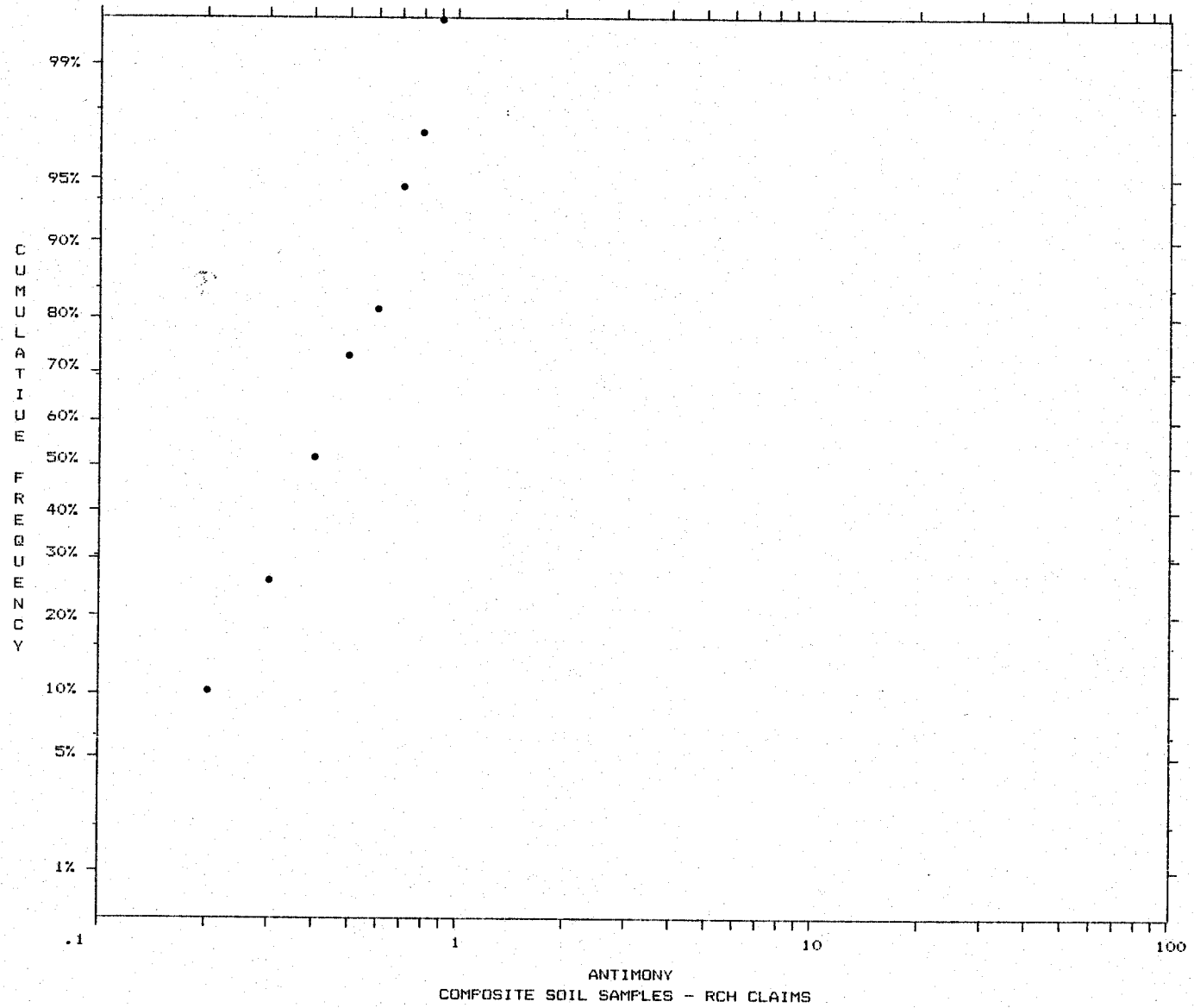
831023



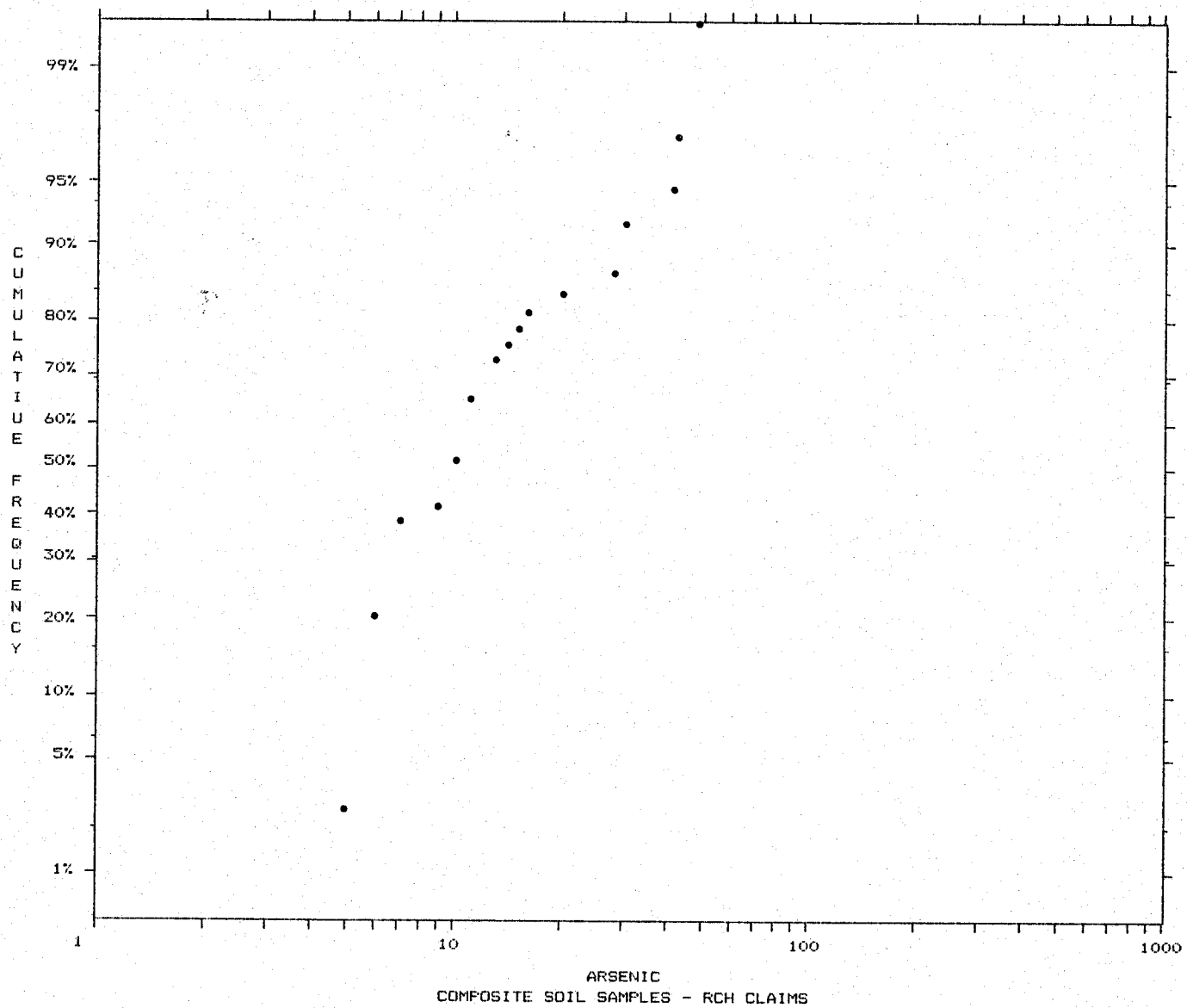
831023



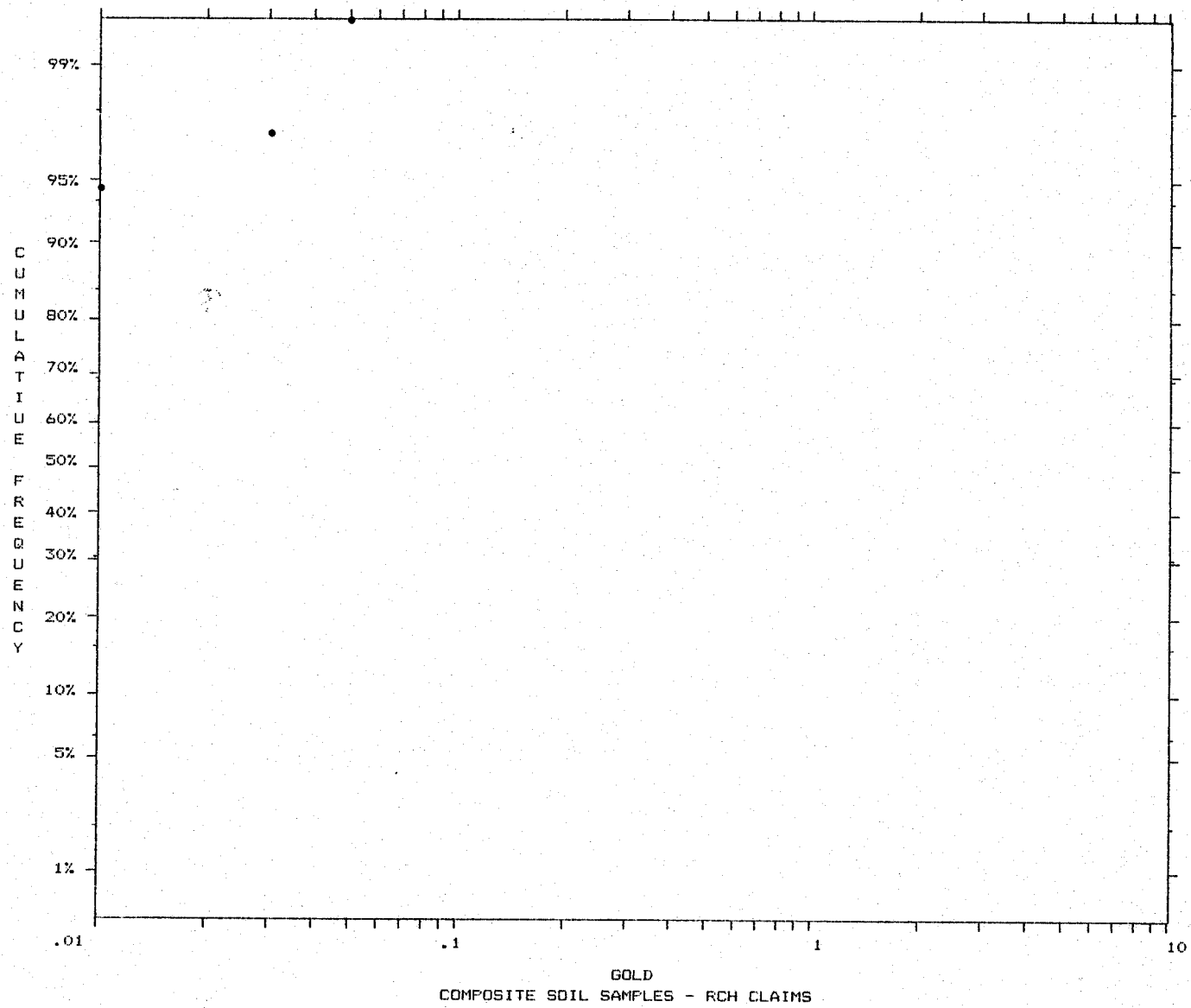
831023



831023



831023



APPENDIX III
Statement of Qualifications

STATEMENT OF QUALIFICATIONS

I, Susanne L. Ridley, hereby certify that:

1. I am presently employed by MineQuest Exploration Associates Limited as a Geologist.
2. I am a graduate of the University of Western Ontario (B.Sc. Honours, Geology, 1983).
3. I have completed three field seasons in mineral exploration in western and northern Canada
4. The information, opinions and recommendations in this report are based on information acquired from reports, maps and data lists on file at MineQuest and from personal communication with project supervisors.

Signed:

Susanne L. Ridley
Susanne L. Ridley

Dated at Vancouver, B.C. this

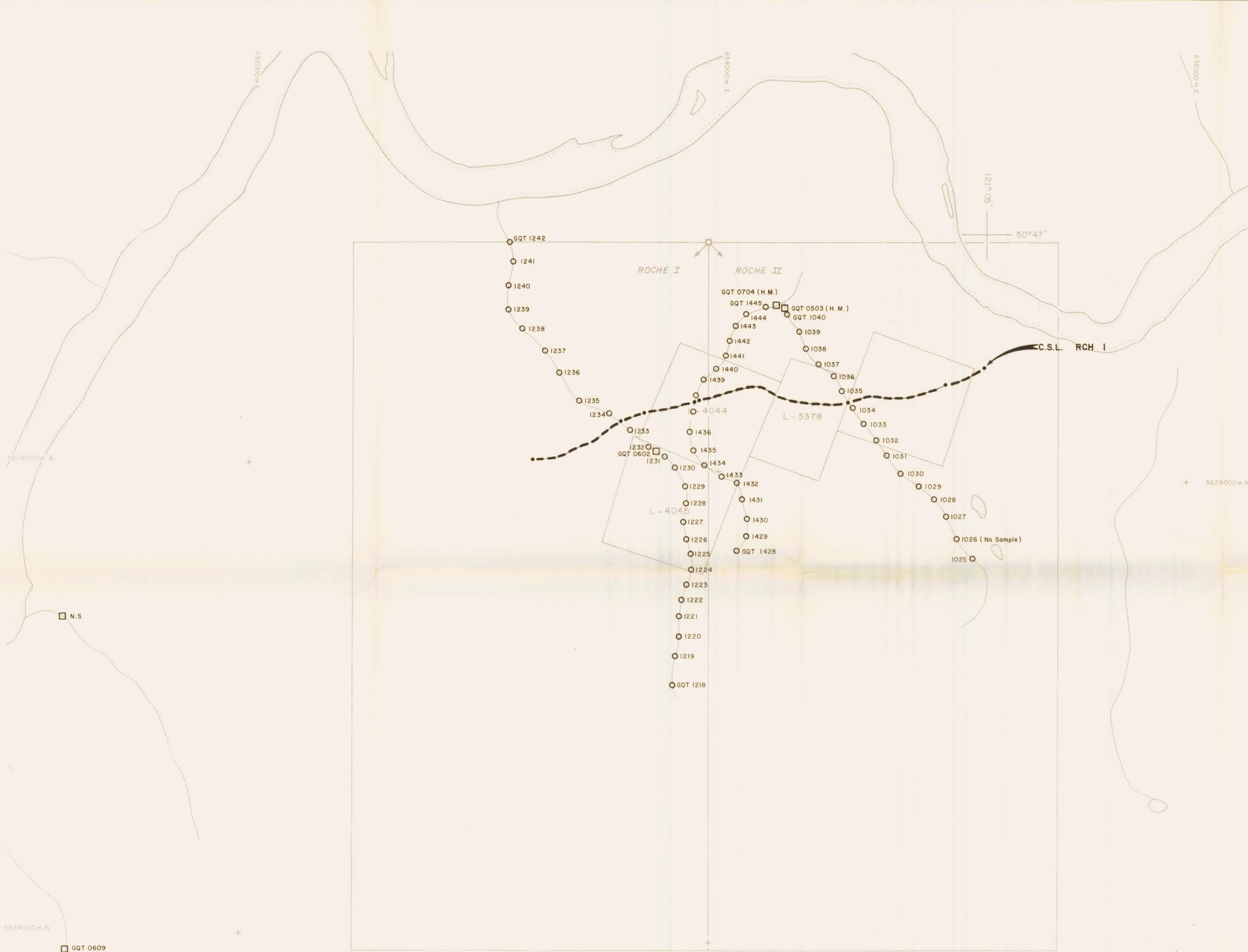
Field supervisor R. V. Louge, geologist.

APPENDIX IV
Cost Statement

COST STATEMENT - ROCHE CLAIMS
UP TO DECEMBER 31, 1983

	<u>Roche</u>	<u>Regional Distributable Camp Costs *</u>
Professional Fees	\$ 888.53	
Temporary Staff	1,187.56	
Contract Labour	525.00	\$ 200.00
Air Fares		1,357.80
Rental Vehicle - Casual	44.40	371.49
Rental Vehicle - Term		7,451.64
MQ Rental Vehicle Charges		1,253.29
Taxis, Parking, Fares		174.40
Meals, Accommodations		2,412.16
MQ Equipment Charges - Field	30.96	2,057.00
Equipment Rentals		324.48
Fuels & Lubricants - Vehicles		2,873.77
Vehicle Repairs & Maintenance		852.01
Groceries, Kitchen Supplies	45.48	966.16
Food & Accommodation - In Field	125.55	11,787.49
General Supplies		1,576.37
Geochemical Analyses	1,701.61	
Others		165.78
Telephone		686.97
Courier, Postage		315.10
Drafting	157.50	
Reprographics	38.23	322.60
Xerox - In House	.60	19.70
Maps, Reports & Publications	36.38	195.65
Drafting Supplies	66.49	
Computer Services	59.60	
Freight		1,370.70
Claim, Option Fees	3.00	
Disbursements Over-Ride	283.48	3,677.75
Report Preparation Cost	<u>2,900.00</u>	
TOTAL	<u><u>\$ 8,094.37</u></u>	<u><u>\$40,415.27</u></u>

*Note: Regional costs distributed according to man days spent on claims. 1.15% of total (above) allocated to Roche claims.
Total \$ applied to Roche = \$8,441.87

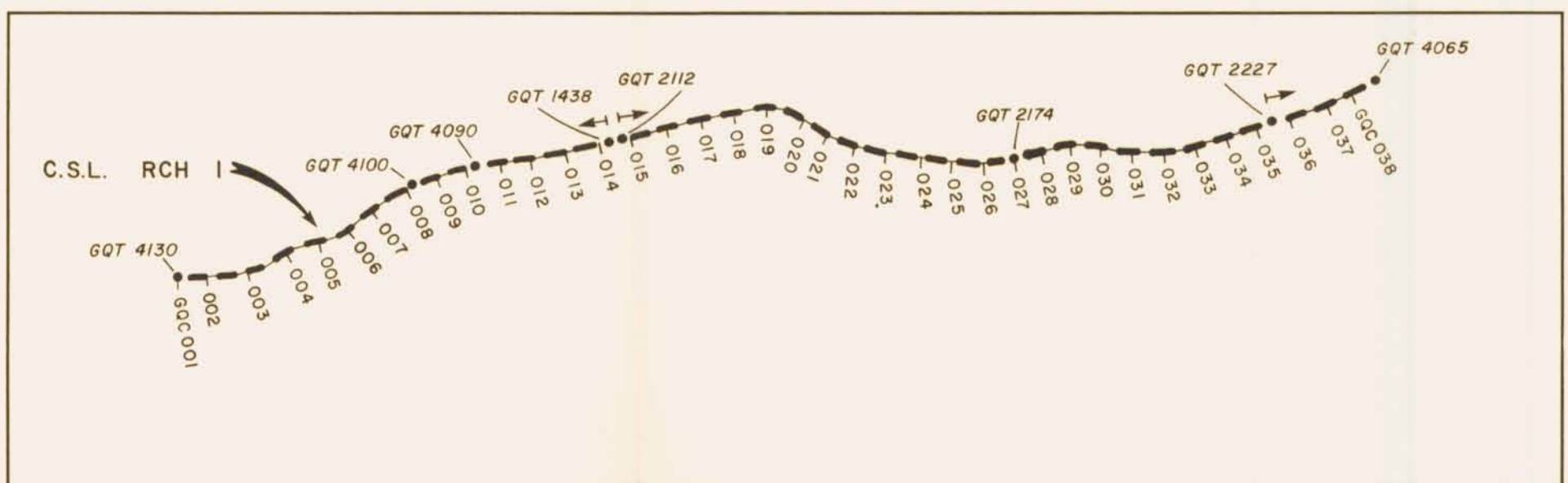


LEGEND

- GQT 1037 ··· Silt sample location and number
- GQC 024 ··· Soil composite location and number
- GQT 0503 (H.M.) ··· Heavy mineral sample location and number

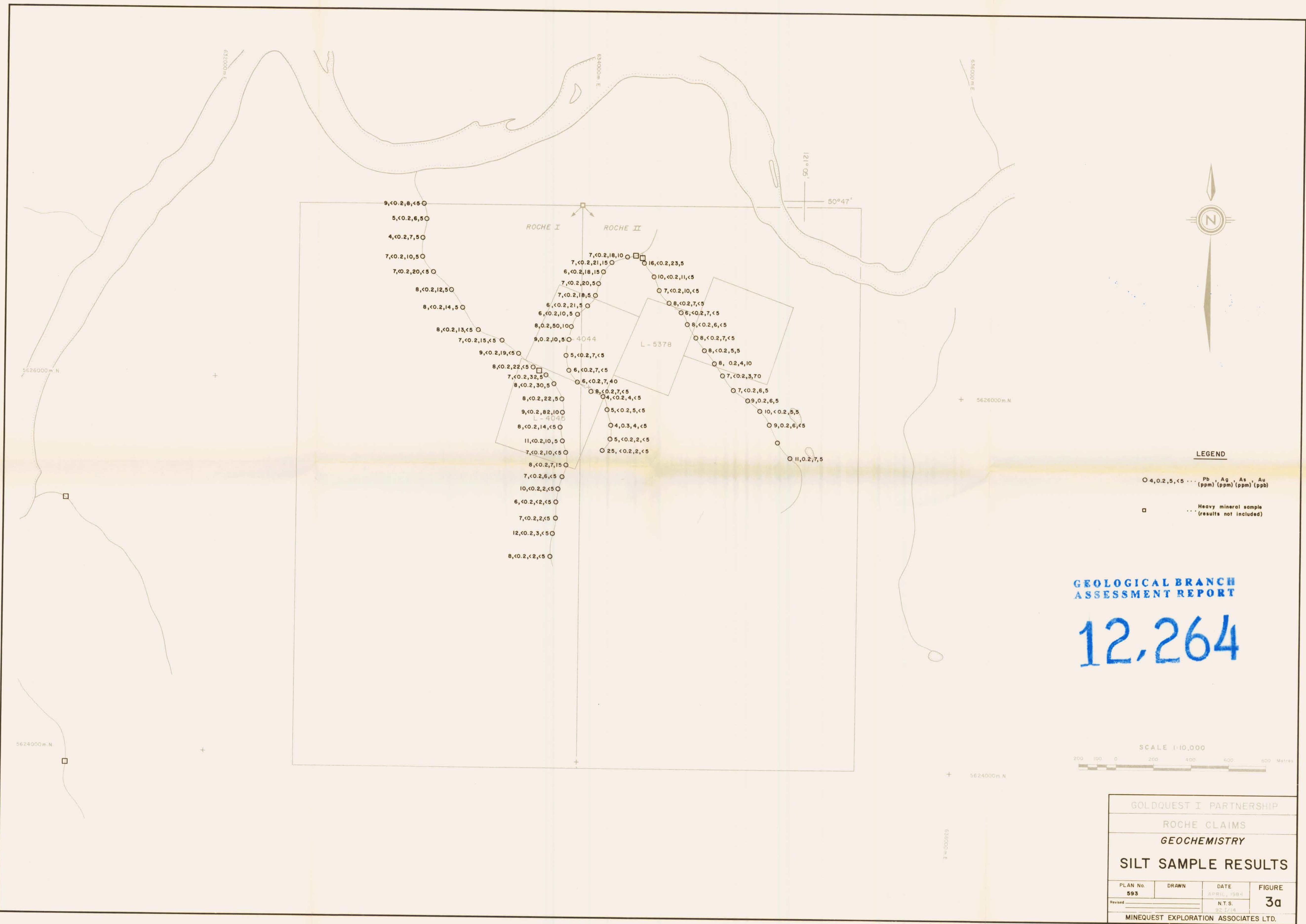
**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

12,264



GOLDQUEST I PARTNERSHIP			
ROCHE CLAIMS			
GEOCHEMISTRY			
SILT & SOIL COMPOSITE SAMPLE LOCATIONS			
PLAN No. 472	DRAWN	DATE APRIL, 1984	FIGURE 2
Revised		N.T.S.	92 1/14
MINEQUEST EXPLORATION ASSOCIATES LTD.			

EXCLUSIVE DRAFTING SERVICES LTD.



LEGEND

- 4,0.2,5, <5 ... Pb, Ag, As, Au (ppm) (ppm) (ppm) (ppb)
- Heavy mineral sample (results not included)

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

12,264

SCALE 1:10,000



GOLDQUEST I PARTNERSHIP			
ROCHE CLAIMS			
GEOCHEMISTRY			
SILT SAMPLE RESULTS			
PLAN No. 593	DRAWN	DATE APRIL, 1984	FIGURE 3a
Revised		N.T.S.	
MINEQUEST EXPLORATION ASSOCIATES LTD.			

EXCLUSIVE DRAFTING SERVICES LTD.

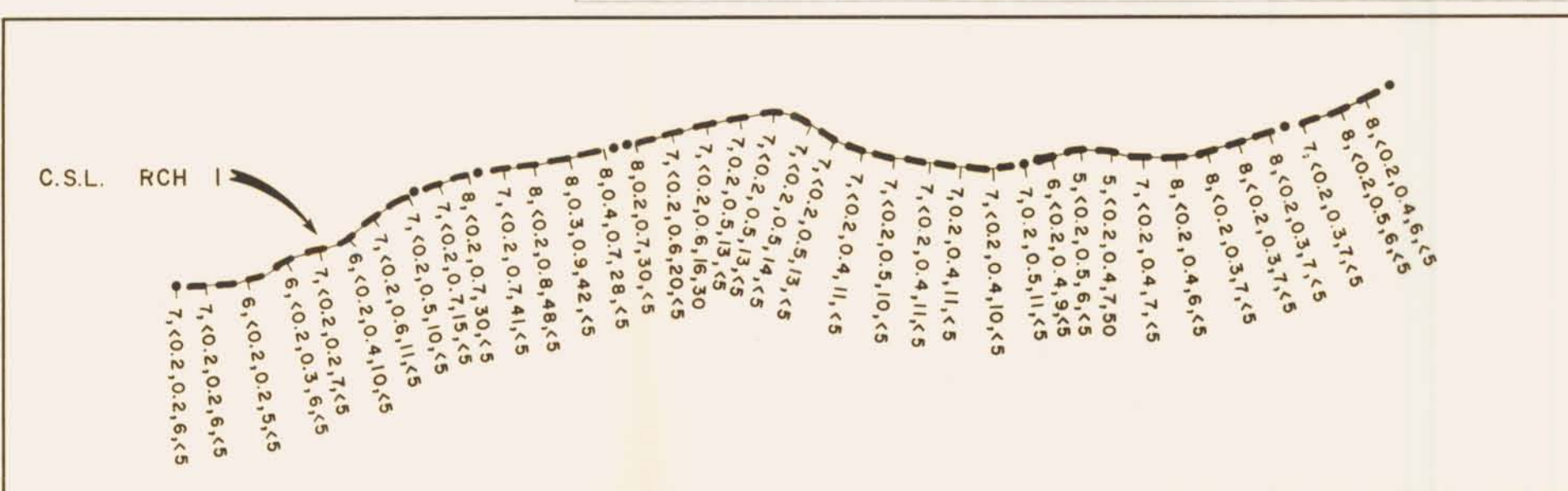


LEGEND

7, 0.3, 0.2, 5, 5 Pb, Ag, Sb, As, Au
(ppm) (ppm) (ppm) (ppm) (ppb)

GEOLOGICAL BRANCH
ASSESSMENT REPORT

12,264



GOLDQUEST I PARTNERSHIP			
ROCHE CLAIMS			
GEOCHEMISTRY			
SOIL COMPOSITE RESULTS			
PLAN No. 594	DRAWN	DATE APRIL, 1984	FIGURE 3b
Revised		N.T.S. 92 1/14	
MINEQUEST EXPLORATION ASSOCIATES LTD.			

EXCLUSIVE DRAFTING SERVICES LTD.