

15-#354-# 6928

Geochemical Assessment Report

on a portion of the

LAST GROUP

(LAST CLAIM, MAJ C CLAIM and MAJ B CLAIM)

situated 37 air kilometers north of Hope

and

2 kilometers due east of Chapman's Bar Indian Reserve (#10)

on the east side of the Fraser River

COQUIHALLA GOLD BELT

NEW WESTMINSTER MINING DIVISION

In The Southern Mainland Portion

of the

Province of British Columbia, Canada.

N.T.S. 92H/11w $\frac{1}{2}$

Latitude 49° 41', Longitude 121° 22'

Report by

D. R. Cochrane, P. Eng.

Consulting Geological Engineer

October, 1978

Delta, B. C.



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Geotechnical Consulting / Exploration Services

geology
geophysics
geochemistry

6928

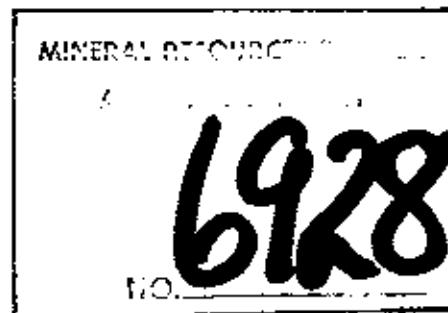
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INTRODUCTION

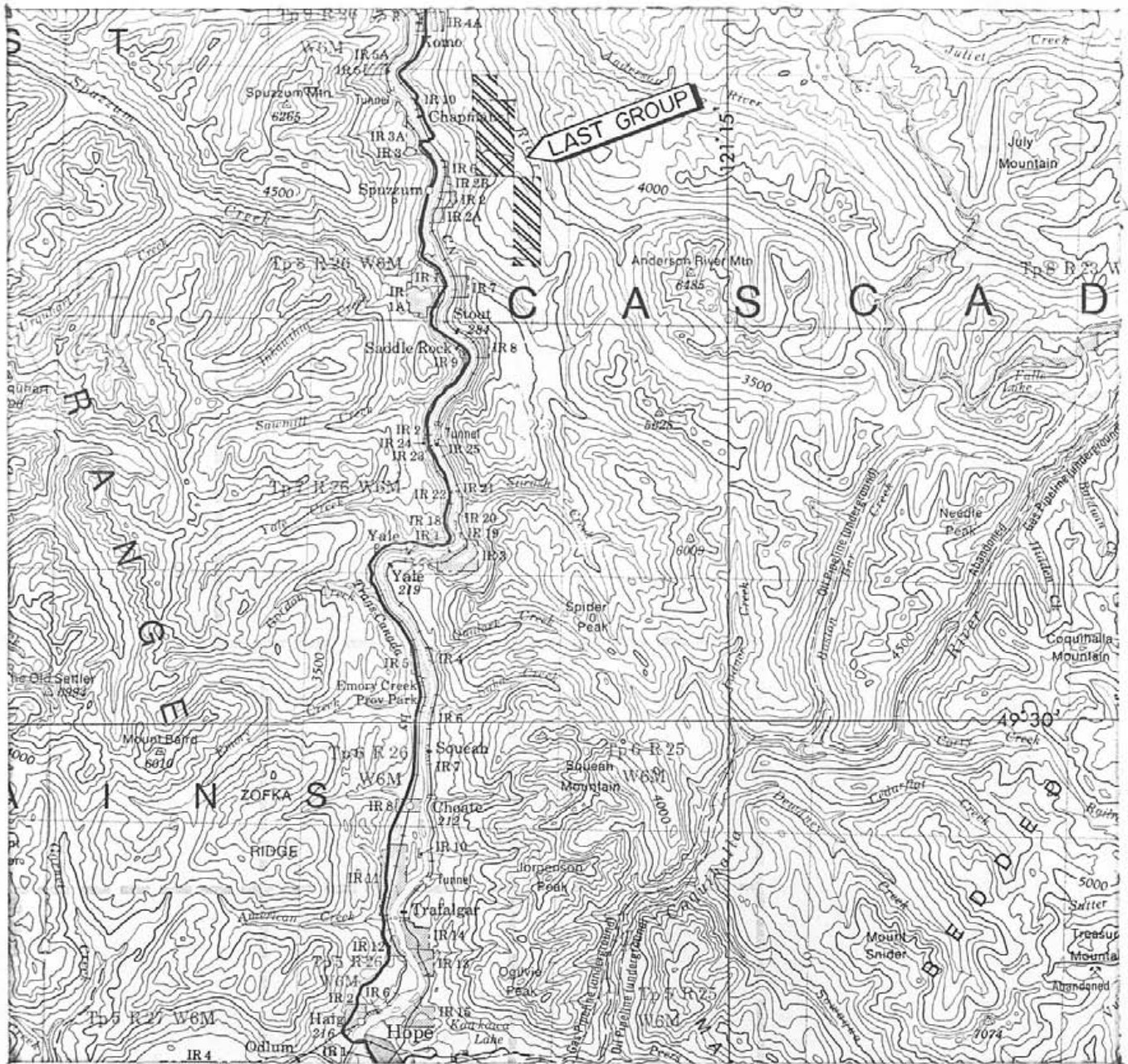
During the second week of August, 1978 a reconnaissance soil sampling program was conducted along the north portion of the Coquihalla Gold Belt in southern British Columbia. The purpose of the work was to re-assess the economic potential of this belt, with special emphasis on gold, in view of the fairly recent increase in the price of this metal. Field work was conducted by an experienced field crew and was supervised by Mr. Jon Stewart and D. R. Cochrane, P. Eng. Work consisted of the collection of soil samples which were subsequently analyzed for gold content.

The previous season's field work (including soil sampling, geologic mapping, and hand panning) led to the location of the Last Claim. The Maj B and Maj C were located this year as part of Aquarius Resources/Longbar Minerals' continuing exploration on the Coquihalla Gold Belt. A portion of the 1978 soil sampling and grid location program is hereby submitted for assessment work credits.



Assessment work details are contained in the Appendix located at the end of this report. The report was prepared by D. R. Cochrane, P. Eng. and is based on notes and data collected by the field crew.





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Last Group, Spuzzum B.C. New Westminster M.D.
Figure 1 92H/11

Location Map

Scale: 1 to 250 000 or 1 inch equals approx. 4 miles



Aug. '78, b.a.c.



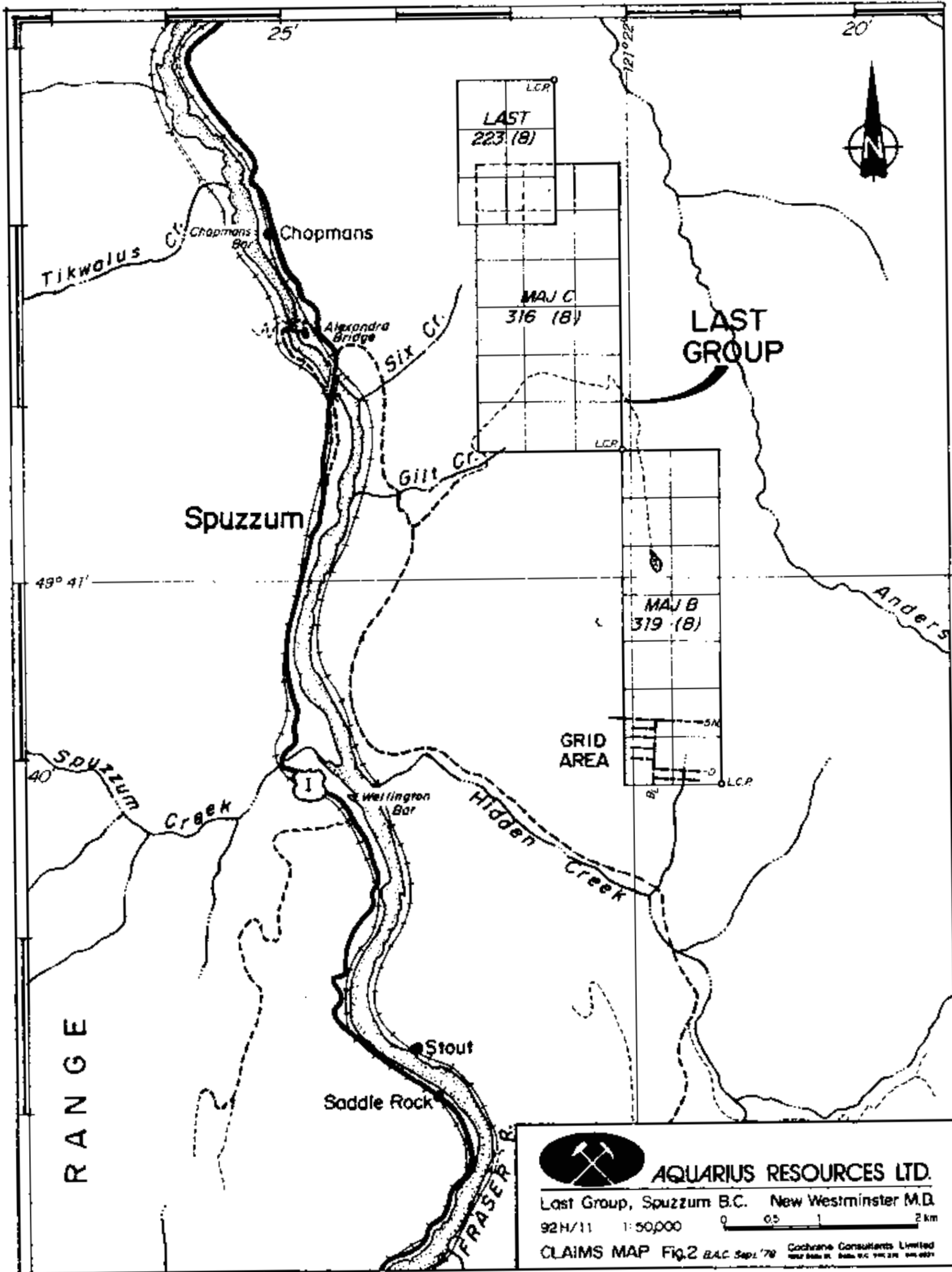
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LOCATION AND ACCESS

The Last Group is situated immediately east of the Fraser Canyon at Chapmans, some 37 air kilometers due north of Hope B. C. Normal access is by truck by proceeding southerly along the logging road departing from the east end of the Alexandra Bridge and easterly up the Gilt Creek road and finally north along a gravel access road to near the claims location. The remainder is on foot. Alternate and facile access is by helicopter and from heliports based in Hope and Agassiz B. C.

The longitude is $121^{\circ} 22' W$, Latitude $49^{\circ} 41' N$ and N.T.S. code 92H/11 (west $\frac{1}{2}$)





RANGE



AQUARIUS RESOURCES LTD.

Last Group, Spuzzum B.C. New Westminster M.D.

92H/11 1:50,000 0 0.5 1 2 km

CLAIMS MAP Fig.2 B.A.C. Sept. '78 Cochrane Consultants Limited
 1007 Burr St. Suite 901 Vancouver B.C. V6C 1K7

PROPERTY INFORMATION

The Last Group is comprised of three claims namely the Last, Maj C, and Maj B Mineral Claims. Pertinent claims information is listed below.

<u>CLAIM</u>	<u>RECORD NO.</u>	<u>UNITS</u>	<u>ANNIVERSARY DATE</u>
Last	223	6	August 22, 1977
Maj C	316	18	August 11, 1978
Maj B	319	14	August 11, 1978



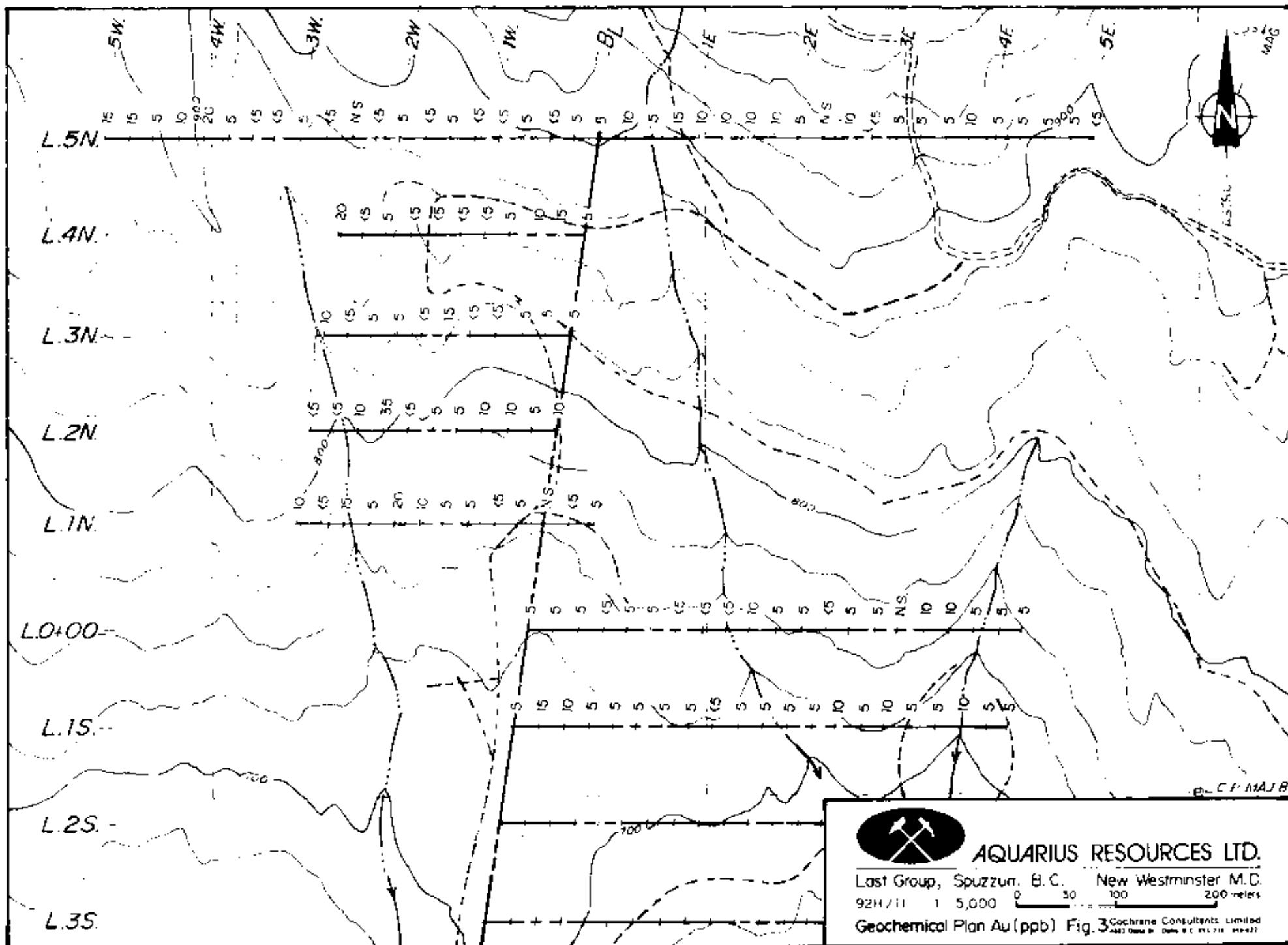
GENERAL SETTING

The Last Group lies within the Coquihalla Gold belt located along the western margin of the Methow Graben, a major geological feature of the Northern Cascade Range of Washington and British Columbia. (McKee, 1972). The principal structural element is the north trending Hozameen Fault which separates the younger (mid Jurassic) Ladner Slate Group to the east of the Fault from the older (Paleozoic) Hozameen Group rocks, and an altered and serpentinized ultra basic and basic rock complex of unknown age. The gold occurrences along the belt are of various types including shear zone, vein, breccia and replacement varieties with some deposits exhibiting overlapping characteristics. Most of the former production was from shear zone and vein type deposits but current exploration attention is biased towards deposits with larger dimensions such as breccia and replacement types since these are amenable to large tonnage low cost mechanized mining techniques.



The majority of the gold occurrences discovered to date along the Coquihalla Gold belt lie within or close to the Hozameen Fault system and within either altered basic rocks or the Ladner Group slates. These include the Monument, located 11 kilometers south of the Last Claim and the Idaho Zone of Carolin Mines Ltd., situated some 26 kilometers south of the Last Claim.





WORK DONE/RESULTS OBTAINED

Soil sampling work was conducted on and to the south of the Last Group. 3,750m of grid was blazed and flagged on the Maj B claim of the Last Group of which 700m was baseline and 3050m cross lines soil sampled at 25m intervals. 126 samples were collected, bagged, line and station numbers marked, and shipped to Min-Eu Labs Ltd. in North Vancouver for analysis for their gold content. These results are plotted as Figure 3.





CONCLUSIONS

Hand panning of gravels lead to the eventual staking and reconnaissance soil sampling survey on the Last Claim. The geochemical soil sampling survey showed only weak geochemical response to gold (a peak value of 35ppb), however the sampling pattern was quite "wide spaced" and additional geochemical detail is required for adequate interpretation.

There is a weak northerly trending abnormal geochemical high through the west side of the reconnaissance grid and detailed geochemical sampling in conjunction with geological mapping, additional panning, and bedrock sampling is herein recommended.

Respectfully submitted



A circular professional seal for D. R. Cochrane, a Professional Engineer in the Province of British Columbia. The seal contains the text: "PROFESSIONAL ENGINEER", "PROVINCE OF BRITISH COLUMBIA", and "D. R. COCHRANE". A handwritten signature is written over the seal.

D. R. Cochrane, P. Eng.

APPENDIX I

Assessment Work Details

Field Person	August 10-11, 1978 2 days @ \$80/day	\$ 160.00
Field Person	August 10-11, 1978 2 days @ \$80/day	160.00
Mr. Jon Stewart	Supervisor, August 10-11, 1978 2 days @ \$2000/month	130.00
Min-En Labs Ltd.	126 soil sample analysis @ \$4.40/sample	544.40
Vehicle Expense	Two 4 x 4's, 2 days @ \$25/day/truck.....	100.00
	42km @ 40¢/km	16.80
Accommodation	3 men, 2 days @ \$20/day/man.....	120.00
		<u>\$1,231.20</u>

D. R. Cochrane, P. Eng., and various personnel of Cochrane Consultants Ltd., report preparation, drafting, typing, and reproduction.

- Notes: 1. Report preparation by Cochrane Consultants is not included in this cost breakdown.
2. As this cost breakdown is only part of the total exploration program costs have been assigned circa ad valorem.



APPENDIX II

CERTIFICATE:

I, Donald Robert Cochrane of the Municipality of Delta, British Columbia, do hereby certify that:

1. I am a consulting geological engineer with an office at 4882 Delta Street, Delta B. C. V4K 2T8
2. I am a graduate of the University of Toronto (1962) with a degree in Applied Geology (B.A. Sc.) and a graduate of Queen's University (1964) with a degree in Economic Geology (M.Sc. Eng.).
3. I have practiced my profession continuously since graduation and while being employed by such companies as Noranda Exploration Co. Ltd., Quebec Cartier Mines, and Meridian Explorations Syndicate. I have been in private independent practice since 1969.
4. I have no interest, either direct or indirect in the properties or securities of Longbar Minerals Ltd., nor Aquarius Resources Ltd., nor do I expect to acquire any such interest.
5. I am a member in good standing of the Association of Professional Engineers (A.P.E.) of the Province of British Columbia, and also a member of the A.P.E. in the provinces of Ontario, Saskatchewan, and the Yukon Territories.



(signed) D. R. Cochrane, P. Eng.
Delta, British Columbia

