

2400

GEOCHEMICAL SURVEY OF AREA "I",

FRASER LAKE, BRITISH COLUMBIA

'I' Claims No's: 1-99; 100 & 101; 102-121;
201-290; 293-493; 495; 797-506;
511-520; 525-528; 531-534; 539-542; 547-556
576-581; 1 Fr.; 2 Fr. to 4 Fr.

Located 3 miles south of Fraser Lake, B.C.

93K / 2E, 2W, 54N, 124W SE

93F / 1SE, 1SW 53N, 124W NE

PREPARED FOR

CYPRUS EXPLORATION CORPORATION LIMITED,

510 WEST HASTINGS STREET,

VANCOUVER, B.C.

PREPARED BY

BARRINGER RESEARCH LIMITED,

304 CARLINGVIEW DRIVE,

REXDALE, ONTARIO.

JULY 1969.

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Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. **2400** MAP.....

INTRODUCTION

A reconnaissance geochemical stream sediment survey was carried out over approximately 30 square miles of ground held by Cyprus Exploration near Fraser Lake. Stream sediment sampling at an interval of one per quarter mile along all drainages was completed over the whole claim area.

The area rises in relief from the Fraser Lake trough, which is a wide glacial till filled valley. The whole region dips topographically to the north (Fraser Lake) but has local relief of approximately 100-200 feet.

Outcrop is sparse generally less than 5%, but the soil cover is probably generally thin and was estimated to vary from 0 - 20 feet in the majority of places. Much of the till contains angular fragments, and is thought to be of relatively local origin, although local troughs of well sorted water lain material can be found. These troughs represent the product of glacial run-off and that material contained in them has been transported for some distance. The streams are generally flowing for much of the year, and generally contain ample well sorted material.

The geology is being mapped by Alrae Engineering Limited, and this map was not available at the time of writing the report, and therefore the geological observations contained here are purely preliminary.

RESULTS

From a complete examination of all the data the following threshold and anomalous values are calculated for this area:-

	<u>Copper</u> <u>ppm</u>	<u>Molybdenum</u> <u>ppm</u>
Background	0 - 15	0 - 8
Threshold	15	8
3rd Order Anomaly	16 - 30	9 - 16
2nd Order Anomaly	31 - 45	17 - 24
1st Order Anomaly	>45	>24

The east side of the map area shows only isolated, possibly anomalous, molybdenum and copper values of little economic interest. The south-west corner of the survey area however, shows a number of 3rd and 2nd order copper and molybdenum anomalies, delineating an area open to the south-west in ground which has been previously staked. In particular, sample numbers 1 - 12 and sample 15 indicate an area of several square miles with a number of encouraging molybdenum values supported by low order anomalous copper values. Sample numbers 200-210 drain the same general area and although lower in intensity, also indicate this region may contain mineralization.

CONCLUSIONS AND RECOMMENDATIONS

The anomalous copper and molybdenum values are generally coincident and also overlie an area of altered granitic rocks. Further geological correlation is not possible at this time as the geological map is not available, but these anomalies represent a considerable area of potentially interesting ground.

Before further follow up is undertaken, the geology and geophysics should be taken into consideration. But, on the basis of the geochemistry, the claim area should be extended to the south-west as far as possible, and further geochemical stream sediment sampling undertaken to the west and the south of the presently observed anomalies, in order that the areal extent of this anomaly for both molybdenum and copper may be ascertained. If no further ground can be obtained in that direction, it would still be desirable to undertake geochemical sampling in order to determine the extent and therefore possible significance of the anomalies on the Cyprus claims with respect to the adjacent ground.

Following the delineation of the stream sediment anomaly, soil sampling should be undertaken over the most interesting areas. The position of the soil grid and sample intervals can only be determined after completion of the stream sediment geochemical data, and in conjunction with the geology and geophysics.

BARRINGER RESEARCH LIMITED,



P. M. D. Bradshaw,
Chief Geochemist.

PMDB/lh.





BARRINGER RESEARCH

Geochemical

Laboratory Report

Proj. No. 118-34

BARRINGER RESEARCH LIMITED
304 CARLINGVIEW DRIVE
REXDALE, ONTARIO, CANADA
PHONE: 416-677-2491
CABLE: BARESEARCH

DATE July 21, 1969.

Cyprus Exploration Corp. Ltd.,
510 W. Hastings,
VANCOUVER, B.C.
ATT: N. Buist.

REPORT NUMBER 53B

SAMPLE NUMBER	HCl Cu ppm	Bis Mo ppm		Sample Number	HCl Cu ppm	Bis Mo ppm		Sample Number	HCl Cu ppm	Bis Mo ppm
I-1	26	32		I-21	6	7		I-104	22	12
2	26	20		22	6	7		105	15	8
3	21	20		23	7	10		106	10	7
4	13	12		24	7	8		107	14	6
5	7	12		25	6	6		108	7	6
6	25	32		26	5	6		109	20	10
7	28	40		27	6	6		110	7	4
8	15	24		28	17	12		111	7	6
9	29	36		29	7	6		112	20	6
10	25	28		30	7	6		113	7	4
11	17	24		31	15	5		114	14	4
12	35	36		32	13	6		115	15	5
13	15	16		33	13	6		116	17	3
14	15	12		34	5	6		117	14	3
15	38	38		35	10	7		118	7	3
16	16	16		36	7	6		119	15	3
17	16	16		100	14	6		120	16	6
18	14	12		101	18	6		121	13	6
19	6	6		102	16	6		123	7	16
20	6	8		103	8	6		124	13	28



BARRINGER RESEARCH LIMITED
304 CARLINGVIEW DRIVE
REXDALE, ONTARIO, CANADA
PHONE: 416-677-2491
CABLE: BARESEARCH

October 24th, 1969

Cyprus Exploration Corporation Limited
822-510 West Hastings Street
Vancouver, B.C.

Gentlemen:

Re: Area I Claim Group - Fraser Lake, B.C.

The following personnel were employed on the geochemical sampling programme on the above claims during the period June 4, 1969 - September 17th, 1969:-

N. Buist	Party Chief	June 4-13, September 1-17, 1969
K. Ford	Sample Collector	June 4-13, 1969
D. Ridley	Sample Collector	June 4-13, 1969
B. Wilson	Sample Collector	September 1-14, 1969
A. O'Connel	Sample Collector	September 11-17, 1969

Yours sincerely

BARRINGER RESEARCH LIMITED

A handwritten signature in cursive script, appearing to read "Peter M. D. Bradshaw".

Peter M. D. Bradshaw
Chief Geochemist

PMDB:lh

APPENDIX I

GEOCHEMICAL SURVEY OF AREA "I", FRASER LAKE, BRITISH COLUMBIA

Samples of active stream sediment were collected at a regular interval of 1200 feet along all drainages. Approximately 50 to 70 grams of sediment were placed in a high wet strength metal-free Kraft envelope and shipped to Vancouver for analysis.

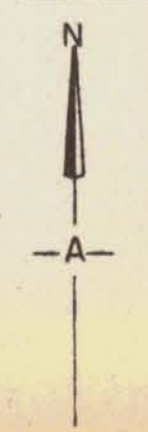
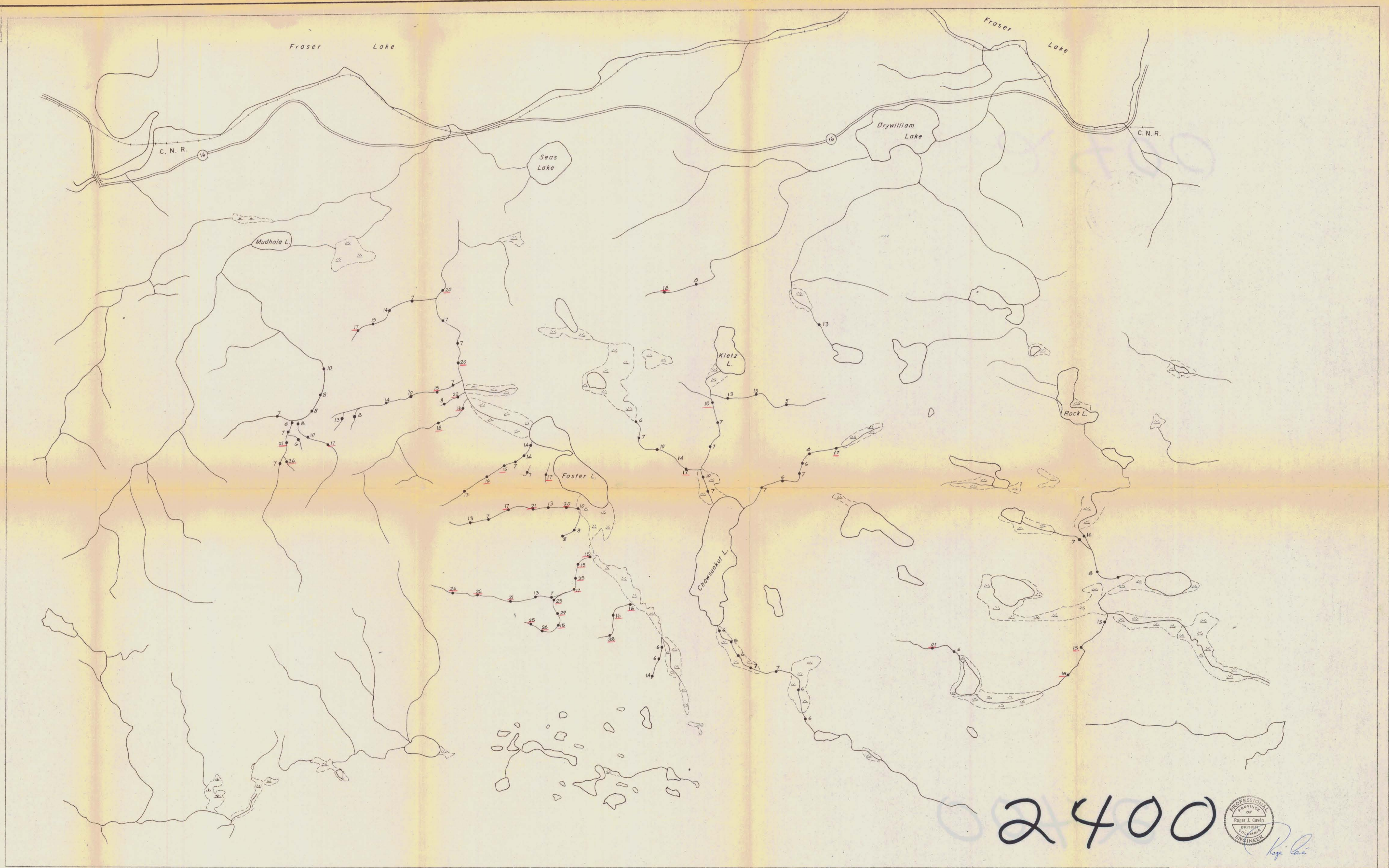
The samples were analysed by Barringer Research Limited in Vancouver. The material was dried overnight at 100°C and sieved to minus 80 mesh using nylon bolting cloth. Copper from this fine fraction was extracted using 0.5 NCL and the content determined on an atomic absorption spectrometer using standard techniques. Molybdenum was determined by colormetry following bisulphate fusion. Miss Y. Hazeldene was in charge of the laboratory.

Peter M.D. Bradshaw, of the Township of Mississauga,
Ontario, hereby certifies that:

1. I am a graduate of the University of Carlton in 1962 with a B.Sc. in geology and of Durham University, England in 1965 with a Ph.D. in geology.
2. I have been practising my profession for the last seven years.
3. I am a member of the Association of Professional Engineers of Ontario and Chartered Engineer of the United Kingdom.



Peter M.D. Bradshaw, Ph.D., P.Eng.



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. **2400** MAP **#1**

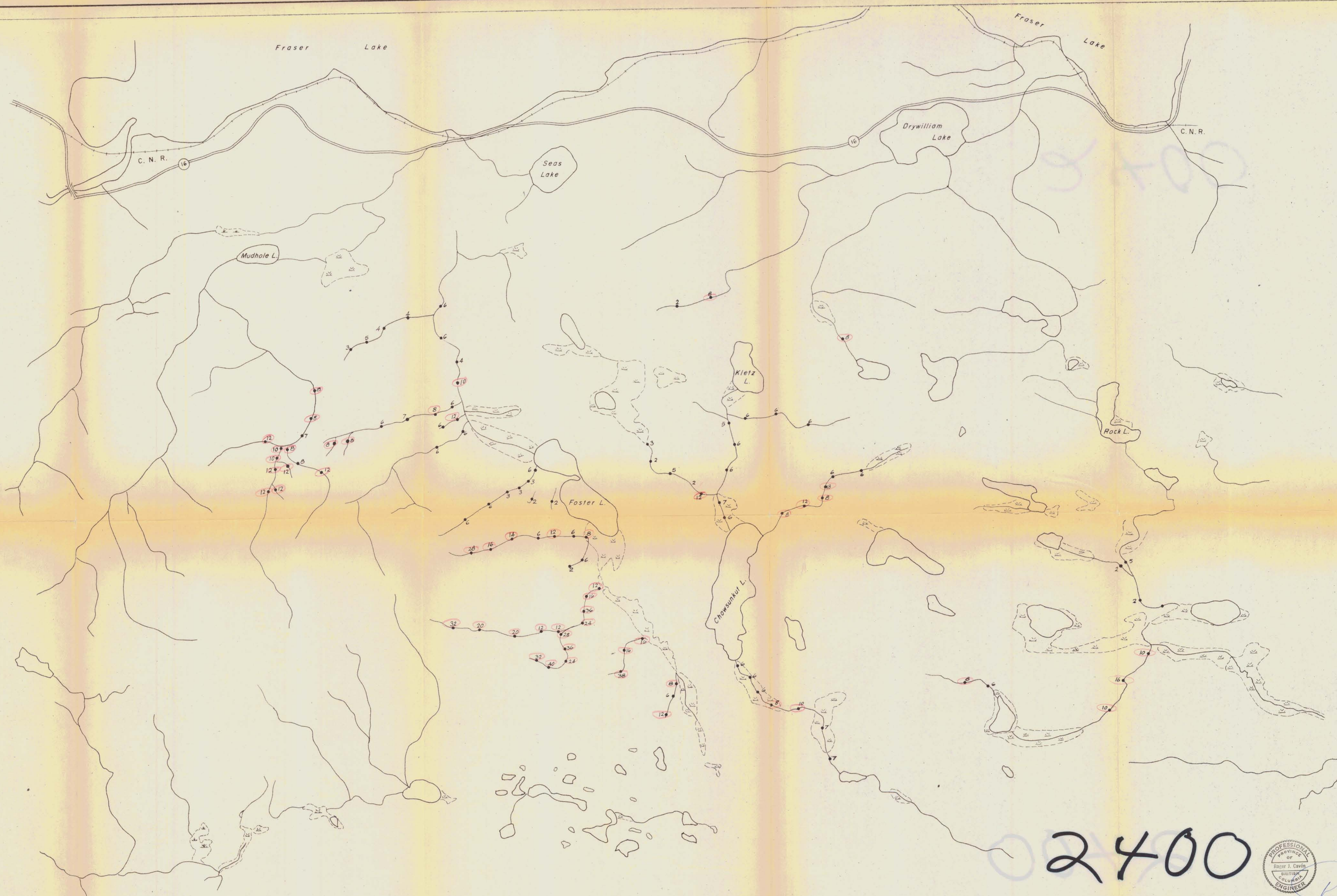
LEGEND

COPPER - ppm.		
Background	0-15	Sample value
Threshold	15	
3rd. Order Anomaly	16-30	
2nd. " "	31-45	
1st. " "	>45	



Work undertaken by
BARRINGER RESEARCH LTD., Toronto, Canada.

CYPRUS EXPLORATION CORPORATION LTD.		
FRASER LAKE, AREA "1"		
GEOCHEMICAL STREAM SEDIMENT SURVEY COPPER		
JULY 1969	Scale 1"=2640'	DWG. 4-118-7



2400

PROFESSIONAL ENGINEER
 PROVINCE OF BRITISH COLUMBIA
 ROBERT J. CAVIN
 BRITISH COLUMBIA
 ENGINEER
R. J. Cavin



Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 2400 MAP #2

LEGEND

MOLYBDENUM - ppm.		
Background	0 - 8	• Sample value
Threshold	8	
3rd. Order Anomaly	9 - 16	
2nd. " "	17 - 24	
1st. " "	> 24	



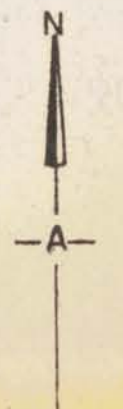
Work undertaken by
 BARRINGER RESEARCH LTD, Toronto, Canada.

CYPRUS EXPLORATION CORPORATION LTD.		
FRASER LAKE, AREA "1"		
GEOCHEMICAL STREAM SEDIMENT SURVEY		
MOLYBDENUM		
JULY 1969	Scale 1"=2640'	DWG. 4-118-8



2400

REGISTERED PROFESSIONAL ENGINEER
 PROVINCE OF ONTARIO
 ROGER J. CAVIN
 BRITISH COLUMBIA
 ENGINEER
R. J. Cavin



Sample Location

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. **2400** MAP **#3**

Work undertaken by
BARRINGER RESEARCH LTD., Toronto, Canada.



CYPRUS EXPLORATION CORPORATION LTD.		
FRASER LAKE, AREA "I"		
GEOCHEMICAL STREAM SEDIMENT SURVEY		
JULY 1969	Scale 1"=2640'	DWG. 4-118-9