REPORT
ON WORK PERFORMED
ON

"AREA J-2"

CYPRUS EXPLORATION CORPORATION LTD.

BUSTER LAKE
BOSS MOUNTAIN AREA
BRITISH COLUMBIA
CANADA

BY
R. P. SINHA, M.Sc.

WILLIAM P. McGILL & ASSOCIATES LTD.

OCTOBER 1969

I N D E X

INTRODUCTION

Project J-2 was an extension of Project J to: (1) stake claims southwest and northeast of Buster Lake; (11) carry out geological traverses on the claims staked southwest of Buster Lake; and (111) take silt samples from the creeks in the southeast corner of the property.

CLAIM STAKING

Twelve claims were staked southwest of Buster Lake and thirteen claims were staked northeast of Buster Lake. The claim names and numbers are given in Appendix 1. The claims southwest of Buster Lake were staked to cover a northeast-southwest running ridge. The area northeast of Buster Lake, covered by GUS claims, was initially not held by Cyprus Exploration Corporation Ltd. The ground was restaked for Cyprus by us after it became open in the first week of October, 1969.

GEOLOGICAL MAPPING

Traverses at 500 foot intervals were made on the twelve claims (J 260 - J 271) staked southwest of Buster Lake. All outcrops along the traverses were recorded and the rock types studied.

The rocks consist essentially of quartz-diorite and granodiorite. These rock types were observed as two different ridges running almost parallel in a northeast-southwest direction. The geological boundary between quartz-diorite and granodiorite shown on the map is based on the mineralogical composition of the rocks. Further detail work is necessary to delineate the boundary more accurately.

GEOCHEMICAL SILT SAMPLING

Silt samples were collected from all the creeks flowing in and out of Buster Lake and from the creeks in the southeast part of Area J. While collecting the silt samples attempts were always made to collect the finest silt samples free of weed, grass, and moss. However, because of the nature of the terrain some samples were not

true silt samples. Samples #50, 51, 52, 53, 3, 4, 5, and 6 are essentially sand samples. This could not be avoided as the creek bed was rocky.

The silt samples were analysed by Barringer Research Limited. The results of the analysis are shown in Figure 1. Their locations are already shown on the map accompanying the Geological Report of Area J. Figure 1 shows that the values obtained from all the samples are unusually low. Even the contaminated samples (#301, 302, 306, 307, 308, 309, and 310) taken from the immediate vicinity of the dump of Noranda Mines Ltd. show very low values. The reason for this abnormality is not known. However, if the values from the contaminated samples are taken as the upper index we find that samples #20, 21, 22, 40, 41, 11, 12, 15, 17, 64, 66, 68, 101, and 102 are relatively high in copper and/or molybdenum. Samples #303, 304, and 305 were taken from the creek which drains part of "Telephone Hill" in the southeast corner of the property. These samples returned moderate molybdenum values, possibly warranting further investigation.

The samples from the creek which lies on claim J 232 are not true silt samples. The area is rocky and the samples consisted essentially of sand, however the concentration shown by these samples would appear to warrant

some investigation, especially in that the area is geologically favourable.

Respectfully submitted,

WILLIAM P. McGILL & ASSOCIATES LTD.

R. P. Sinha, M.Sc.

Toronto, Ontario
October, 1969

APPENDIX 1

CLAIMS STAKED - SOUTHWEST BUSTER LAKE AREA

Claim Name	Tag Number
J 260	6638 M
J 261	6639 M
J 262	6640 M
J 263	6641 M
J 264	6643 M
J 265	6644 M
J 266	6645 M
J 267	6646 M
J 268	6647 M
J 269	6648 M
J 270	6649 M
J 271	6650 M

CLAIMS RE-STAKED - NORTHEAST CORNER BUSTER LAKE

Claim Name	Tag Number
J 219	81856 M
J 220	81854 M
J 221	81857 M
J 222	81855 M
J 223	81859 M
J 224	81858 M
J 225	81860 M
J 226	81861 M
J 40	81853 M
J 42	81850 M
J 44	81849 M
J 96	81852 M
J 98	81851 M

FIGURE 1

AREA J

BUSTER LAKE - BOSS MOUNTAIN AREA, B. C.

GEOCHEMICAL LABORATORY REPORT

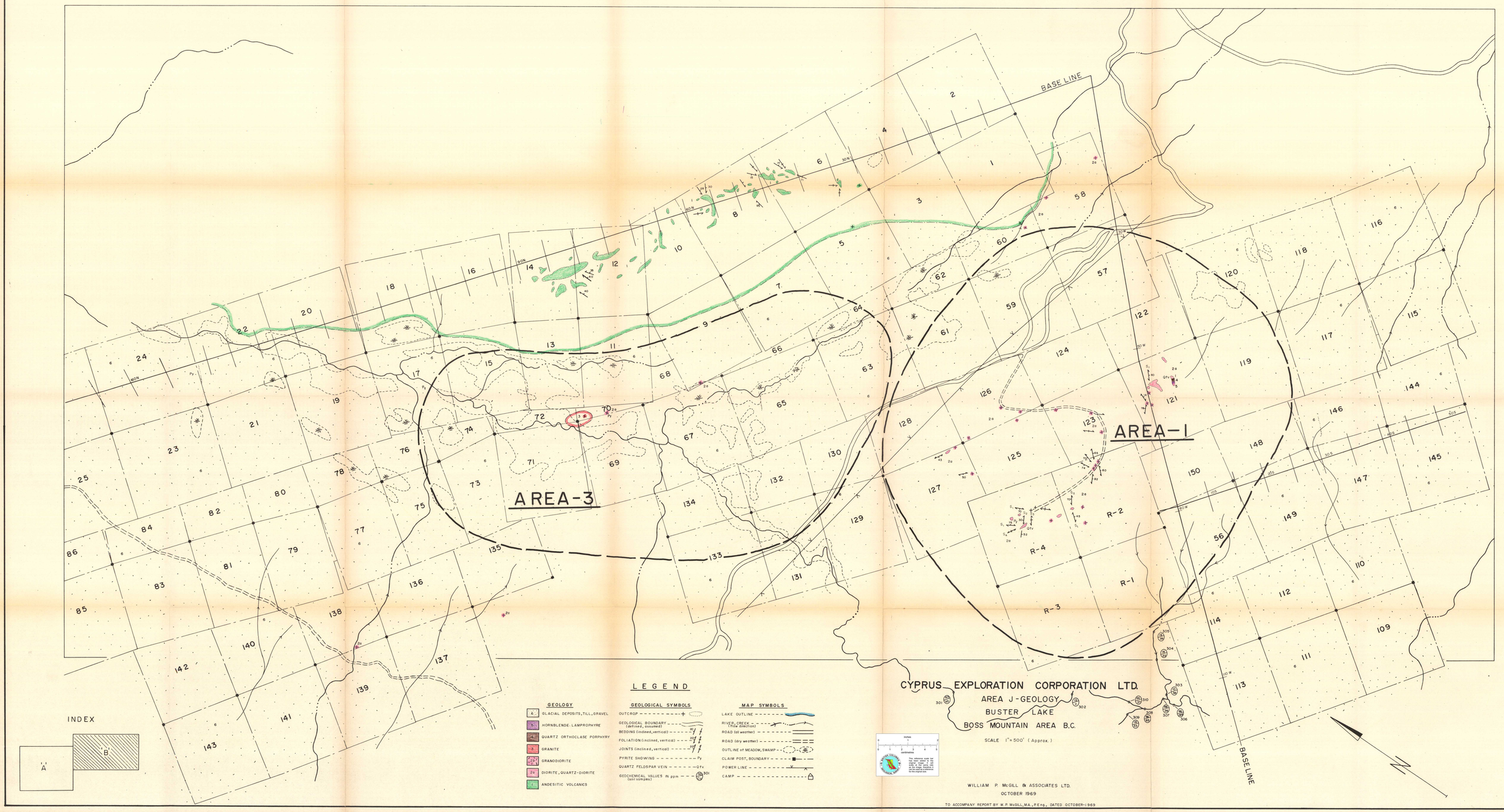
Sample No.	HCl Cu (ppm)	Bis Mo (ppm)
3	15	1
4	21	1
5	19	1
6	25	1
7	29	2
10	12	1
11	67	1
12	58	6
13	37	1
14	22	1
15	90	1
17	58	1
18	18	1
19	16	2
20	7	1
21	63	8
22	132	1

Sample No.	HCl Cu (ppm)	Bis Mo (ppm)
40	75	5
41	80	6
50	11	4
51	58	1
52	54	5
53	34	1
60	11	5
61	11	1
62	14	1
63	36	6
64	63	7
65	37	1
66	90	1
67	37	2
68	54	1
69	39	1
91	48	2
92	50	1
93	42	2
94	40	2
101	100	1
102	75	1
103	63	4

Sample No.	HCl Cu (ppm)	Bis Mo (ppm)	
301	45	80	Contaminated
302	11	12	Contaminated
303	36	10	
304	22	16	
305	29	16	
306	185	96	Contaminated
307	26	88	Contaminated
308	85	56	Contaminated
309	23	16	Contaminated
310	27	24	Contaminated

Analyst: Barringer Research Limited

CYPRUS EXPLORATION CORPORATION LTD.
AREA J - GEOLOGY
BUSTER LAKE
BOSS MOUNTAIN AREA B.C.
SCALE 1" = 500' (Approx.)
WILLIAM P. McGILL & ASSOCIATES LTD.
OCTOBER 1969
TO ACCOMPANY REPORT BY W. P. McGILL, M.A., P.Eng., DATED OCTOBER-1969
LEGEND
GEOLOGY
6 GLACIAL DEPOSITS, TILL, GRAVEL
5 HORNBLENDE LAMPROPHYRE
4 QUARTZ ORTHOCLASE PORPHYRY
3 GRANITE
2b GRANODIORITE
2a DIORITE, QUARTZ-DIORITE
1 ANDESITIC VOLCANICS
GEOLOGICAL SYMBOLS
OUTCROP
GEOLOGICAL BOUNDARY (defined, assumed)
BEDDING (inclined, vertical)
FOLIATION (inclined vertical)
JOINTS (inclined, vertical)
PYRITE SHOWING Py
QUARTZ FELDSPAR VEIN Qfv
GEOCHEMICAL VALUES IN ppm (soil samples) Mo Cu 60
MAP SYMBOLS
LAKE OUTLINE
RIVER, CREEK (flow direction)
ROAD (all weather)
ROAD (dry weather)
OUTLINE of MEADOW, SWAMP
CLAIM POST, BOUNDARY
POWER LINE
CAMP
inches
centimetres
BRITISH COLUMBIA GEOLOGICAL SURVEY
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.
INDEX
'A'
'B'
AREA-2
AREA-4
BUSTER LAKE
LAKE
POND
PONDS
BASE LINE


BASE LINE
AREA-1
AREA-3
R-1
R-2
R-3
R-4
INDEX
A
B
LEGEND
GEOLOGY
GLACIAL DEPOSITS, TILL, GRAVEL
HORNBLENDE-LAMPROPHYRE
QUARTZ ORTHOCLASE PORPHYRY
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