GEOCHEMICAL REPORT

on

SEA (Eastern) CLAIM GROUP

(62°10'N, 132°45'W)

at

SWIM LAKES, YUKON

for

ANVIL MINING CORPORATION LIMITED

June, 1967

Association of Professional Engineers of the Yukon Territory
M. O. HAMPTON
GEOLOGICAL ENGINEER

REPORT BY: M.O. Hampton, B.A.Sc., P.Eng.
Chief of Exploration for
ANVIL MINING CORPORATION LTD.

SAMPLES TAKEN: August 24th to 31st, 1966

WHITEHORSE TEL.: 667-4281
AREA CODE: 403, TELEX 049-834
CABLE ADDRESS: ANVLMINE

ANVIL MINING CORPORATION LIMITED
P.O. BOX 2470
103 POLARIS BLOCK
WHITEHORSE, YUKON TERRITORY
CANADA

RECEIVED
AUG 2 1967
MINING RECORDERS OFFICE
WHITEHORSE, Y.T.

June 29, 1967

Mr. G. McIntyre
Chief Mining Recorder
Federal Building
Whitehorse
Yukon Territory

Dear Mr. McIntyre:

The accompanying report is submitted to apply as assessment work on the AXA Mineral Claim Group.

The area covered is on claim map sheet 105K/2.

Yours truly,

M.O. Hampton

M.O. Hampton, B.A. Sc., P. Eng.
Chief of Exploration for
ANVIL MINING CORPORATION LIMITED

GEOLOGICAL SURVEY
OCT 5 1967
Resident Geologist
Y. T.

MOH/ew

Enclosure

This report has been examined by
the Geological Evaluation Unit.
Approved as to technical worth by:
D.C. Findlay
RESIDENT GEOLOGIST

Approved as to value in the amount
of: $ 2326.32
R. G. Needham
CHIEF MINING RECORDER

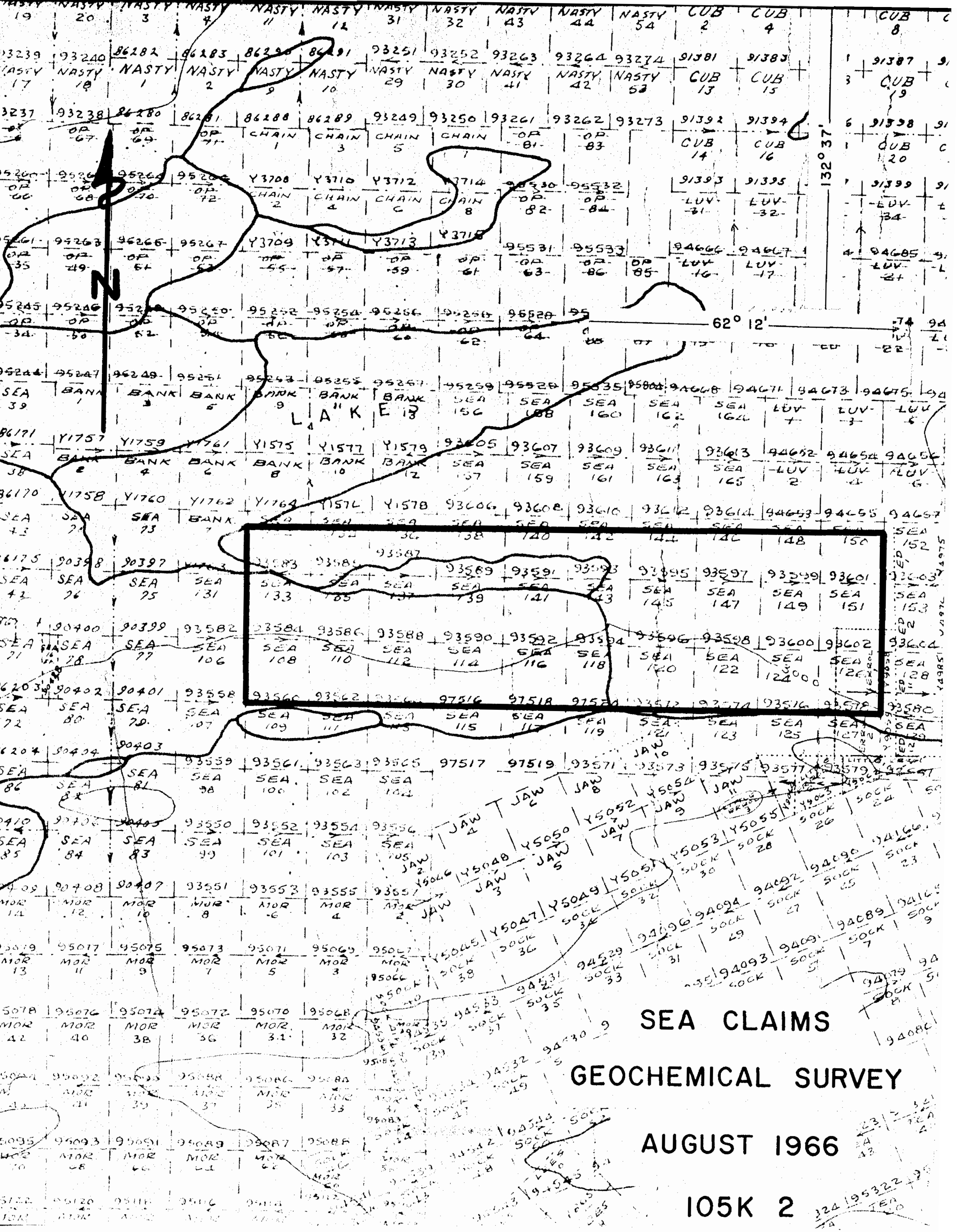
Accepted as representation work
under Section 53(4) Yukon Quartz
Mining Act.

COMMISSIONER OF YUKON

GEOCHEMICAL SURVEY

SEA (Eastern) CLAIM GROUP

TABLE OF CONTENTS



SEA CLAIMS

GEOCHEMICAL SURVEY

AUGUST 1966

105K 2

INTRODUCTION

A geochemical survey was carried out on the eastern part of the SEA mineral claim group during the period August 24 to August 31, 1966. These claims are owned by ANVIL MINING CORPORATION LIMITED and the work, except for the preparatory linecutting, was carried out by ANVIL personnel.

Linecutting was done by contract linecutters of White, Hosford and Impey Limited of Whitehorse.

Access to the property for all people involved with work on the property during 1966 was by BELL G-3B helicopter based at Faro Camp some 22 miles northwest of the eastern SEA property.

The geochemical survey was done, in conjunction with a magnetometer survey, to follow up electromagnetic anomalies, detected by an airborne electromagnetic survey carried out in 1965. The geochemical survey was designed to indicate areas of possible valuable metal content which may have been related to the electromagnetic anomalies.

The only published data on the Anvil Range area is the preliminary four mile to one inch map of the regional geology of the TAY RIVER map sheet done by Drs J.A. Roddick and L.H. Green of the Geological Survey of Canada.

Rocks in the area of the eastern SEA claims are recorded as being largely metamorphic schists and gneisses of probably Mississippian age with Tertiary intrusions on the east. Known potential ore bodies in the Anvil Range occur in metamorphic rocks of probable Mississippian age. No outcrops were reported on the soil sampled grid.

LABORATORY ANALYSIS

Test methods used involved a hot aqua regia extraction of heavy metal ions from the soil sample, followed by reaction with dithizone or biquinoline to give coloured products. The coloured reaction products were then matched with solutions of known metal content, which had been reacted with dithizone or biquinoline, to determine the metal content of the soil sample.

Separate and specific tests for each of the three metals, copper, lead and zinc were carried out on each soil sample.

RESULTS AND INTERPRETATION

Analysis results were plotted on a 400 feet to one inch plan of the sampled grid.

None of the samples analyzed gave values sufficiently higher than the average to consider any of the samples anomalous.

Possibly the overburden of unknown depth could mask geochemical expression but this does not seem probable in this case. Lack of any magnetic anomalies found by a ground magnetometer survey (Anvil Report November 1966) further down grades the potential of this area.

CONCLUSIONS AND RECOMMENDATIONS

Geochemical analysis of soil samples taken on the eastern SEA mineral claims has failed to outline any anomalous areas. From this fact, combined with the earlier reported lack of magnetic expression, it is concluded no shallow sulphide bodies similar to those found elsewhere in the Anvil Range area exist within the area covered in this survey.

No further work is recommended on the eastern SEA claims unless based on future knowledge of the subsurface geology in adjacent areas.

Association of Professional Engineers of the Yukon Territory
M. O. HAMPTON
GEOLOGICAL
ENGINEER

M.O. Hampton, B.A. Sc., P. Eng.
Chief of Exploration for
ANVIL MINING CORPORATION LIMITED

APPENDIX I (i)

STATEMENT OF COSTS — Geochemical Survey SEA Group

(A)	Linecutting - Contract White, Hosford & Impey Ltd. Submitted already for Geophysics Survey		
(B)	Soil Sampling (760 samples)		$ 848.00
	Wages 22 mandays @ $15	$330.00	
	Maintenance 18 mandays @ $ 8(w/cook)	$144.00	
	4 mandays @ $ 6(w/o cook)	$ 24.00	
	Transportation, helicopter		
	(1 trip Faro-Sea return - 1½ hr)		
	(2 trips Ace-Sea return - 2 hr)		
	(3½ hrs @ $100/hour)	$350.00	
		$848.00	
(C)	Laboratory Analysis (752 samples)		
	752 samples @ $1.66 =	$1248.32	$ 1248.32
(D)	Compilation of Report		
	Draughting	$ 40.00	$ 125.00
	Typing, clerical, printing	$ 40.00	
	Writing	$ 45.00	
		$125.00	
(E)	Supervision		
	R.S. Adamson - 1 day at $45	$ 45.00	$ 105.00
	M.O. Hampton - 1 day at $35	$ 35.00	
	P. Byers - 1 day at $25	$ 25.00	
		$105.00	
			$ 2326.32

APPENDIX I (ii)

PERSONNEL

(A) Contract Linecutters

(B) Soil Sampling

D. Hanson	Soil Sampler	Box 2470, Whitehorse, Y.T.
R. Beaumont	Soil Sampler	Box 2470, Whitehorse, Y.T.
G. Sprogis	Soil Sampler	Box 2470, Whitehorse, Y.T.

(C) Laboratory Analysis

J. Kirkland	Geochemist	Box 2470, Whitehorse, Y.T.
L. Olsen	Lab Assistant	Box 2470, Whitehorse, Y.T.
R. Pringle	Lab Assistant	Box 2470, Whitehorse, Y.T.
W. Rundle	Sample Preparation	Box 2470, Whitehorse, Y.T.

(D) Compilation of Report

W. Seidler	Draughtsman	Box 2470, Whitehorse, Y.T.
M.O. Hampton	Chief of Exploration	Box 2470, Whitehorse, Y.T.

(E) Supervision

R.S. Adamson	Chief of Exploration (1966)	Box 2470, Whitehorse, Y.T.
M.O. Hampton	Geologist	Box 2470, Whitehorse, Y.T.
P. Byers	Lead Soil Sampler	Box 2470, Whitehorse, Y.T.
J. Kirkland	Geochemist	Box 2470, Whitehorse, Y.T.

APPENDIX I (iii)

AFFIDAVIT

SUPPORTING STATEMENT OF COSTS
Geochemical Survey
August 24 - 31, 1966

I, Murray O. Hampton, Chief of Exploration for ANVIL MINING CORPORATION LIMITED, have compiled the statement of costs as presented in this report "Geochemical Survey of SEA (East) Claim Group", DO MAKE OATH AND SAY AS FOLLOWS:

That to the best of my knowledge and belief, the statement of costs as presented is true and an accurate representation of expenditures to be applied as representative work on the SEA mineral claims.

M O Hampton

Murray O. Hampton, B.A. Sc., P. Eng.
Chief of Exploration for
ANVIL MINING CORPORATION LIMITED

DATED this....2nd....day of....August....1967, in the City of Whitehorse in the Yukon Territory.

A Commissioner for taking Affidavits
in and for the Yukon Territory.

SEA 132
SEA 133
SEA 134
SEA 135
SEA 136
SEA 137
SEA 138
SEA 139
SEA 140
SEA 141
SEA 142
SEA 143
SEA 144
SEA 145
SEA 146
SEA 147
SEA 148
SEA 149
SEA 150
SEA 151
SEA 152
SEA 153
SEA 108
SEA 110
SEA 112
SEA 114
SEA 116
SEA 118
SEA 120
SEA 122
SEA 124
SEA 126
SEA 128
LAKE
LAKE
100 104 108 112 116 120 124 128 132 136 140 144 148 152 156 160 164 168 172 176 180 184 188 192 196 200 204 208 212 216 220 224 228 232 236 240 244 248 252 256 260
N
LEGEND
SAMPLE LOCATION
CLAIM POST
1/2/3 ANALYSIS Cu/Pb/Zn
T.N.D. — TAKEN BUT NOT ANALYZED
N.S.T. — NO SAMPLE TAKEN
P.F. — PERMAFROST
ANVIL MINING CORP
WHITEHORSE Y.T.
SEA GEOCHEMISTRY
SCALE: 1"– 400'
SAMPLES TAKEN — 760
SAMPLES ANALYZED — 752 — AUG. 28.–30/66
SAMPLED BY — HANSON, BEAUMONT, SPROGIS
DRAWN BY: W.D.S.
CWA 17