Report on a Geochemical Survey

on the

JAY 1-16 Mineral Claims, sheet 106-D-4

held by

Altair Mining Corporation Ltd., (N.P.L.)

located near the

Junction of Lynx and Skate Creeks

at Latitude 64° 00 1/2' N., Longitude 135° 38 1/2' W.

in the

Mayo Mining Division

from July 17 to 28, 1969

by

MacDonald Consultants Ltd.

E. D. Dodson, P. Eng.

Vancouver, B.C. November 20, 1969
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INTRODUCTION

During the period July 17th to 28th, 1969, a geochemical survey was carried out on the JAY 1-16 mineral claims located near the junction of Lynx and Skate Creeks in central Yukon Territory.

A total of 17,12 line miles of chain and compass line was run. Samples were taken at 100 foot intervals on lines spaced approximately 400 feet apart. Errors in line spacing result from inaccuracies in line direction.

A total of 903 samples were taken and analyzed for silver, lead and zinc.

LOCATION AND ACCESS

The JAY group of claims lie approximately 30 miles northeast of Mayo in central Yukon Territory at an approximate latitude and longitude of 64° 00 1/2' N., 135° 38 1/2' W.

The property is accessible by helicopter from Mayo. Cat trails pass within five miles of the property area.

PHYSIOGRAPHY

The claim group is situated in the Potato Hills at elevations between 2,500 feet and 4,200 feet in fairly rugged country.

A good growth of timber covers the property.

CLAIM GROUP

The JAY group of mineral claims consists of the following:

<table>
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<td>JAY 1-16</td>
<td>Y 31815-Y31830</td>
<td>March 10, 1969</td>
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HISTORY

The property area was formerly held by United Keno Hill Mines Ltd., who did some hand trenching on the property.
The claims were allowed to lapse. The JAY 1-16 claims were staked in March, 1968 and subsequently acquired by Altair Mining Corporation Ltd. (N.P.L.) under a purchase agreement.

GEOLOGY

The consolidated rocks underlying the region are mainly bedded metamorphic rocks and consist of quartz-mica schist of Precambrian or early Palaeozoic age, with minor interbedded limey bands.

Granitic masses, generally assumed to be of Cretaceous age, cut the bedded rocks.

Near these granitic rocks characteristic skarn zones are developed in the calcareous rocks of the sedimentary sequence.

GEOCHEMICAL SURVEY

The geochemical survey consisted of soil sampling at 100 foot intervals along all cross-lines and along the base-line.

The samples were taken from the "B" horizon using mattocks. They were packed in high wet-strength paper sample bags provided by the assay laboratory.

The samples were shipped to Bondar-Clegg & Co. Ltd., 1300 Pemberton Avenue, North Vancouver, B. C., to be assayed for silver, lead and zinc.

The samples were screened in the lab, the -80 mesh fraction was assayed.

Hot aqua-regia digestion was used. The silver, lead and zinc values were determined by atomic absorption.

A total of 903 samples were assayed.

Anomalous metal values were found to occur in an east-westerly direction across the property.

Background values for silver average about .5 ppm; anomalous values range from .7 - 8.4 ppm.
Background values for lead average about 15 ppm; anomalous values range from about 30 - 6600 ppm.

Background values for zinc average about 20 ppm; anomalous values range from about 140 - 7200 ppm.

Coincident silver-lead-zinc anomalies are observed to occur in a general east-westerly trend across the property, with the major anomaly lying almost the centre of the claim group.

Results are plotted on the accompanying maps.

CONCLUSIONS AND RECOMMENDATIONS

The geochemical survey outlined a strong coincident silver-lead-zinc anomaly striking in an east-westerly direction. Several weaker coincident anomalous areas are present.

Detailed geological mapping and surface trenching will be necessary to correlate the trends outlined to the underlying bed rock and structures.

Respectfully submitted,

MacDONALD CONSULTANTS LTD.

E. D. Dodson, P. Eng.

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STATEMENT OF QUALIFICATIONS

The field work for this report was done by C. V. Dyson, E. F. Longland, N. S. Basok, and B. G. Payne whose qualifications are outlined below:

1. C. V. Dyson - P. Geol. (Alta.) Geologist for MacDonald Consultants Ltd., Vancouver, B. C.

2. E. F. Longland - Student, Soil Sampler, Line Cutter. Trained by professional personnel of MacDonald Consultants Ltd. Second summer on this type of work.

3. N. S. Basok - Student, Chainman, Line Blazer.


Students under direct supervision of C. V. Dyson, P. Geol (Alta.).