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GEOCHEMICAL REPORT
on the
BLUE GROUP, NANAIMO MINING DIVISION
of
ALPHA MINES LTD. (N.P.L.)

50° 127' S.E.

922 6/11
by Allan P. Fawley, B.A.Sc.,
M.Sc., Ph.D., P.Eng.

June 15 - August 8, 1968

ALLAN P. FAWLEY, Ph.D., P.Eng.
CONSULTING MINING AND GEOLOGICAL ENGINEER

1947 WEST KING EDWARD AVENUE
VANCOUVER 9, BRITISH COLUMBIA

GEOCHEMICAL REPORT
on the
BLUE GROUP, NANAIMO MINING DIVISION
of
ALPHA MINES LTD. (N.P.L.)

BLUE CLAIMS NOS. 1 - 48, 16 miles south of Port Hardy
50° 127° S.E.

by

Allan P. Fawley, B.A.Sc., M.Sc., Ph.D., P.Eng.

Work carried out June 15 - August 8, 1968.

Report written October 1968.

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GEOCHEMICAL REPORT ON THE BLUE GROUP,
NANAIMO MINING DIVISION

of

ALPHA MINES LTD. (N.P.L.)

INTRODUCTION

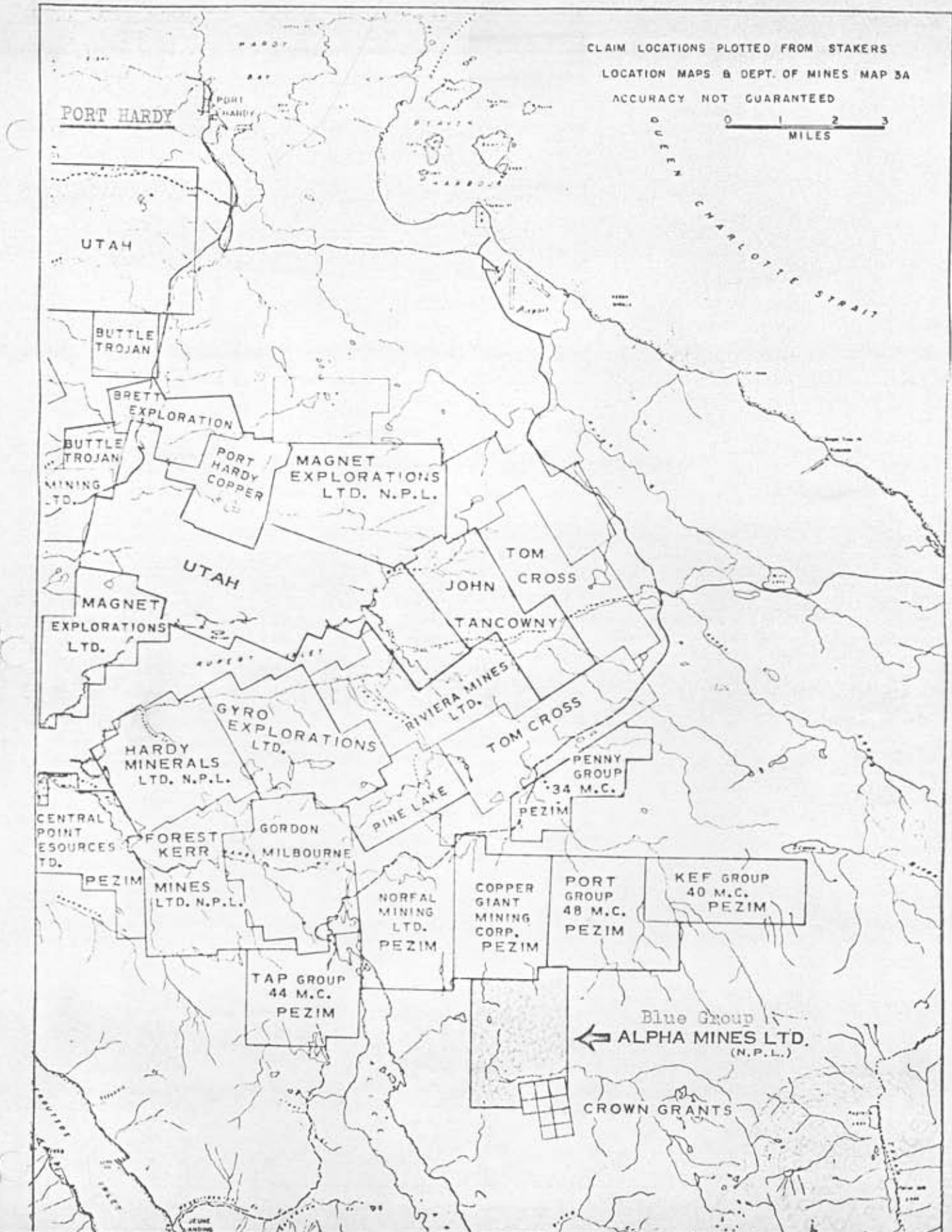
A geochemical soil survey was carried out on the 48-claim Blue Group of Alpha Mines Ltd. by Walter Schwartz and Thomas Cross under the direction of A. P. Fawley, P.Eng., of Fawley Geological Engineering Ltd. Mr. Schwartz has taken a course in geochemistry at the Colorado School of Mines, and Mr. Cross has had training in geochemical prospecting with Falconbridge Nickel Mines Ltd. Field work was carried out during June 15 to August 8, 1968 and assaying, mapping and compiling results was completed by August 24, 1968.

LOCATION AND ACCESS

The Blue Group of claims are approximately 16 miles (or 28 miles by road) S.S.E. of Port Hardy, Vancouver Island. A network of logging roads, mostly in fair condition, exists on the property.

TOPOGRAPHY AND TIMBER

The claims area is rugged and steep in places but



Location map to accompany geochemical report by Allan P. Fawley, P.Eng. on the Blue Group, Nanaimo Mining Division, dated October 16, 1968.

not precipitous. Most of the area is covered by overburden but there is considerable bare rock, especially in logged and burnt places. Much of the area has been logged but some good timber remains.

GEOLOGY AND MINERALIZATION

Rocks that outcrop are altered andesites and basalt belonging to the Karmutsen Group of Triassic Age. Copper mineralization in the form of disseminated chalcopyrite or streaks of bornite was found in several places, the main showing is in a rock quarry with co-ordinates of 31 N, 16 W.

FIELD WORK PROCEDURE

Line Cutting

Forty line miles were cut and picketed as follows: A chain and compass grid with east-west lines 500 ft. apart was established over the area. The #1 post of Blue #1 and #2 mineral claims was used as a starting point and given the co-ordinates 30-00 N, 15-00W. This puts the origin (0+00 / 0+00) of the grid on the southeast corner of the claim group and all stations are numbered northerly and westerly from that point. Along the grid lines soil samples were collected at 100 ft. intervals. The lines were marked with orange survey flagging and the stations with yellow flagging. The co-ordinates were marked on the yellow

flagging at 200 ft. intervals.

At steep areas of outcropping rock cliffs north south lines were run to get the soil samples of these cliffs at approximate contour lines.

Soil Sampling:

A 4-foot soil auger was found to be satisfactory for collecting the samples at an average depth of 18 inches below the humus layer. Almost all the soils collected had a fine texture with a rusty brownish colour. At the valley bottoms, especially around 50 W to 70 W and 15 N to 30 N where the creek turns north, the samples were silty and should be considered as sediment samples. Overburden probably averages about 3 feet on the slopes with a much greater thickness in the valleys. The soil samples were placed, moist, in envelopes and sent to Coast Eldridge for assaying. The samples were collected at 100 foot intervals for a total of 1,875 samples, but only every second sample was submitted for assay.

LABORATORY PROCEDURE

Soil samples were submitted to Coast Eldridge laboratories of Warnock Hersey International Ltd. for geochemical analysis for copper by the "Total Extraction" method. A total of 983 samples were assayed, the results are enclosed and have also been plotted on an enclosed map.

DISCUSSION OF RESULTS AND INTERPRETATION


Methodical soil sampling of the entire claim area showed that the background for copper has a range of about 5 to 25 ppm (parts per million) by the "Total Extraction" method. Anomalous zones are assumed to be those where the majority of assays average more than 40 ppm. With this assumption, eight anomalous zones occur and are shown on an enclosed map.

The anomalous zones are not very pronounced but some are large, and one or more may overlie low-grade copper deposits of economic size.

SUMMARY OF COSTS

Contract price for a geochemical survey of the 48-claim Blue Group on Vancouver Island, including 40 miles of line cutting, surveying and picketing, and the collection of 1,875 soil samples	\$5,400.00
Consulting fees, including field work and for compiling map and interpretation	\$ 500.00
Geochemical analyses for copper of 983 soil samples by the "Total Extraction" method	<u>\$ 983.00</u>
Total cost:	\$6,883.00

Respectfully submitted,


Allan P. Fawley, B.A.Sc.
M.Sc., Ph.D., P.Eng.

Vancouver, B.C.
October 16, 1968

Consulting Mining and Geological
Engineer

C E R T I F I C A T E

I, ALLAN PRIEST FAWLEY, of the City of Vancouver, in the Province of British Columbia, HEREBY CERTIFY:

1. THAT I am a Consulting Mining Engineer and Geologist, and my address is 1947 West King Edward Avenue, Vancouver 9, B.C.
2. THAT I am a graduate of the University of British Columbia with the degree of B.A.Sc. (1937) in Mining Engineering, of Queen's University with the degree of M.Sc. (1946) in Geology, and of the University of California with the degree of Ph.D. (1948) in Geology.
3. THAT I am a registered Professional Engineer in the Province of British Columbia and in the Yukon Territory, and also a member of the Society of Economic Geologists, of the Canadian Institute of Mining and Metallurgy, and of the Geochemical Society.
4. THAT I have practised my profession as a geologist for more than twenty years.
5. THAT I have no direct interest or indirect interest, nor do I expect to have any interest in the Blue Group or in Alpha Mines Ltd. (N.P.L.).
6. THAT I have no direct interest in any company acquiring control or intending to acquire control of the Blue Group or of Alpha Mines Ltd. (N.P.L.).
7. THAT this report for Alpha Mines Ltd. (N.P.L.) is based on a personal examination of the Blue Group on June 23, 1968.

DATED this 16th day of October, 1968.



Allan P. Fawley, Ph.D., P.Eng.
Consulting Mining and Geological
Engineer

A P P E N D I X

QUALIFICATION

Contract for Geochemical Survey
Alpha Mines Ltd. (N.P.L.)

Blue Group Blue #1 - #48 Mineral
Claims, Port Hardy Area, by

Thomas Cross

&

Walter Schwartz.

June 15 to Aug. 24, 1968.

Mr. Schwartz of
4040 Barclay Street,
Vancouver, B.C.,

has taken his Geochemical Soil
Surveying training with Falconbridge Nickel Mines and has taken
a Geochemical Course at the Golden Colorado School of Mines in
1966.

I, Thomas Cross of
4337 Greta Street,
Burnaby, B.C.,

have taken my training in Geochemical
work as a Prospector for 6 years with Falconbridge Nickel Mines.

CLAIMS:

BLUE GROUP

Nos. 1 to 48 inclusive

Record Nos. 20912 to
20959 inclusive

All recorded October 30, 1967.

Situate East of Alice Lake,
Nanaimo Mining Division.

ALPHA MINES LTD. (N.P.L.) - Free Miner's
Certificate No. 73535 - issued at Vancouver,
B.C., on June 7, 1968.

CONTRACT COST

Thomas H. Cross

August 1968

Alpha Mines Ltd.

409 Granville St.,
Vancouver 2, B.C.

Geochemical Survey on 48 Claim block, Blue-Group Port Hardy Area

40 Line Miles with 1875 samples collected:

Total contract price as per agreement: \$5400.-

./.. Advance 1500.-

Balance \$3900.-

Payment received:.....

By S. Schantz, Burns

BREAKDOWN OF COSTS

Geochemical Survey

Alpha Mines Ltd.

Blue Group Blue #1 - #48 MC.
Port Hardy Area.

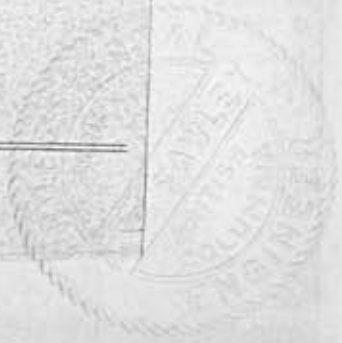
Car Rental	600.00 (300.- p/month)	
Repairs to car	75.82	
Gas	<u>79.01</u>	\$ 754.83
Maps, Flagging, Drafting supplies.		196.42
Hotels		59.35
Meals		115.50
Grub		167.57
Incid. (Phone, Tips, etc.)		15.00
		<hr/>
		\$1,308.67
Labour - 104 man days plus mobilization charges, etc.		4,091.33
		<hr/>
TOTAL CONTRACT PRICE paid to Messrs. Schwartz & Cross:		<u>\$5,400.00</u>

June 15 - Aug 24

DATE	REFERENCE	CHARGES	CREDITS	BALANCE
BALANCE FORWARDED				
AUG 6'68	31,032,111	399.00		
AUG 6'68	31,032,142	212.00		611.00 •
AUG 9'68	46,032,200	286.00		
AUG 13'68	46,032,264	86.00		983.00 •
<i>ASSAY COSTS</i>				JUL 31 1968
PAID				
CH. #		<i>104</i>		
DATE		<i>Sep 12/68</i>		

ORM 138 C.E.-92E

WARNOCK HERSEY INTERNATIONAL LIMITED
COAST FLORIDA
PROFESSIONAL SERVICES DIVISION





WARNOCK HERSEY
INTERNATIONAL LIMITED •

COAST ELDRIDGE
PROFESSIONAL SERVICES DIVISION

125 East 4th Ave., Vancouver 10, B.C. Phone B76-4111 - Telex 04-50353

DATE August 6, 1968	CLIENT'S ORDER NO.	CODE 3100	OUR ORDER NO. 584	CLIENT NO.
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Alpha Mines Ltd.
1111 - 409 Granville Street
Vancouver, B.C.

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DATE OF REPORT	REPORT NO.	
Aug. 6		Geochemical analysis of 399 samples of soil submitted on July 19 as per our report datdd Aug. 6.
		\$ <u>399.00</u>

BLUE GRANT



WARNOCK HERSEY
INTERNATIONAL LIMITED •

COAST ELDRIDGE
PROFESSIONAL SERVICES DIVISION

125 East 4th Ave., Vancouver 10, B.C. Phone B76-4111 - Telex 04-50353

AUGUST 7, 1968	CLIENT'S ORDER NO.	CODE 3100	OUR ORDER NO. 794	CLIENT NO.
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Alpha Mines
1111 - 409 Granville Street
Vancouver, B.C.

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DATE OF REPORT	REPORT NO.	
Aug. 6		Geochemical analysis of 212 samples of soil submitted on July 30 as per our report dated August 6.
		\$ <u>212.00</u>

BLUE



WARNOCK HERSEY
INTERNATIONAL LIMITED

COAST ELDRIDGE
PROFESSIONAL SERVICES DIVISION

125 East 4th Ave., Vancouver 10, B.C. Phone 878-4111 - Telex 04-50353

DATE August 9, 1968	CLIENT'S ORDER NO.	CODE 460	OUR ORDER NO. 557	CLIENT NO. 3100
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Alpha Mines Ltd.,
1111 - 409 Granville Street
Vancouver, B.C.

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DATE OF REPORT	REPORT NO.		
Au g. 9		Geochemical analysis of 286 samples of soil submitted on per our report dated August 9.	<u>\$ 286.00</u>



WARNOCK HERSEY
INTERNATIONAL LIMITED

COAST ELDRIDGE
PROFESSIONAL SERVICES DIVISION

125 East 4th Ave., Vancouver 10, B.C. Phone 878-4111 - Telex 04-50353

DATE August 13, 1968	CLIENT'S ORDER NO.	CODE 460	OUR ORDER NO. 557-A	CLIENT NO. 3100
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Alpha Mines Ltd.,
1111 - 409 Granville Street
Vancouver 2, B.C.

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DATE OF REPORT	REPORT NO.		
Aug. 12		Geochemical analysis of 86 samples of soil submitted as per our report dated August 12.	<u>\$ 86.00</u>

BLUE



WARNOCK HERSEY
INTERNATIONAL LIMITED

125 East 4th Ave., Vancouver 10, B.C. Phone 876-4111 Telex 04-50353

COAST ELDRIDGE
PROFESSIONAL SERVICES DIVISION

REPORT OF: **Geochemical Analysis**

794

AT **Vancouver Laboratory**

August 6, 1968.

PROJECT: **Soil Samples**

REPORTED TO: **Alpha Mines,
Room 1111,
409 Granville Str.,
Vancouver 2, B.C.**

We have tested 212 samples of Soil submitted by you on July 30, 1968 and report as hereunder:

TEST PROCEDURE:

The samples were tested by the "Total Extraction" method.

RESULTS:

<u>Sample No.</u>	<u>Copper (ppm)</u>	<u>Sample No.</u>	<u>Copper (ppm)</u>
0+00 76 W	10	15 W 114 N	5
0+00 78 W	25	20 W 56 N	5
0+00 82 N	15	20 W 58 N	5
15 W 56 N	40	20 W 60 N	5
15 W 58 N	10	20 W 62 N	40
15 W 62 N	10	20 W 64 N	5
15 W 60 N	20	20 N 68 N	10
15 W 80 N	10	20 W 70 N	5
15 W 82 N	20	20 W 72 N	10
15 W 88 N	10	20 W 74 N	25
15 W 92 N	15	32 W 80 N	15
15 W 96 N	10	32 W 78 N	5
15 W 98 N	45	32 W 76 N	10
15 W 100 N	10	32 W 74 N	10
15 W 102 N	30	32 W 72 N	5
15 W 104 N	30	38 W 70 N	25
15 W 106 N	15	38 W 68 N	5
15 W 108 N	30	38 W 66 N	35
15 W 110 N	15	38 W 64 N	10
15 W 112 N	5	38 W 62 N	5

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RESULTS ... Continued

<u>Sample No.</u>	<u>Copper (ppm)</u>	<u>Sample No.</u>	<u>Copper (ppm)</u>
38 W 60 N	5	45 N 80 W	10
38 W 58 N	5	45 N 86 W	20
38 W 56 N	10	50 N 58 W	20
38 W 54 N	10	50 N 60 W	25
38 W 52 N	5	50 N 68 W	20
38 W 50 N	30	55 N 16 W	60
38 W 46 N	50	55 N 18 W	25
57 W 74 N	20	55 N 20 W	15
57 W 72 N	40	55 N 24 W	20
57 W 70 N	60	55 N 58 W	55
57 W 68 N	35	55 N 60 W	5
57 W 64 N	60	55 N 62 W	60
57 W 62 N	30	55 N 64 W	15
57 W 60 N	25	55 N 66 W	10
57 W 58 N	25	55 N 74 W	10
57 W 56 N	15	55 N 76 W	55
25 N 3 W	30	55 N 84 W	40
25 N 7 W	35	60 N 58 W	55
25 N 9 W	60	60 N 60 W	40
25 N 12 W	35	60 N 62 W	55
25 N 15 W	15	60 N 64 W	25
25 N 19 W	60	60 N 66 W	25
25 N 21 W	75	60 N 70 W	15
25 N 27 W	30	60 N 72 W	10
30 N 9 W	55	60 N 74 W	15
30 N 13 W	30	60 N 76 W	40
35 N 72 W	30	60 N 80 W	25
35 N 76 W	30	60 N 82 W	30
35 N 78 W	35	60 N 88 W	10
35 N 84 W	40	60 N 90 W	25
35 N 86 W	35	65 N 86 W	25
40 N 64 W	50	65 N 80 W	10
40 N 66 W	35	65 N 78 W	15
40 N 68 W	20	65 N 72 W	35
40 N 70 W	35	65 N 70 W	30
40 N 72 W	10	65 N 68 W	25
40 N 80 W	10	65 N 66 W	25
40 N 82 W	30	65 N 64 W	35
40 N 86 W	20	65 N 60 W	65
45 N 78 W	20	65 N 58 W	25

.....3

Results ... Continued

<u>Sample No.</u>	<u>Copper (ppm)</u>	<u>Sample No.</u>	<u>Copper (ppm)</u>
70 N 58 W	35	85 N 36 W	10
70 N 60 W	35	85 N 38 W	5
70 N 64 W	65	85 N 42 W	30
70 N 62 W	40	85 N 44 W	15
70 N 76 W	10	85 N 48 W	25
70 N 78 W	30	85 N 46 W	30
70 N 84 W	20	85 N 60 W	15
70 N 86 W	10	85 N 62 W	15
70 N 88 W	65	85 N 64 W	30
70 N 90 W	25	85 N 70 W	20
75 N 2 W	30	85 N 72 W	25
75 N 4 W	30	85 N 74 W	20
75 N 6 W	35	85 N 76 W	35
75 N 8 W	50	85 N 78 W	35
75 N 10 W	20	85 N 80 W	25
75 N 12 W	10	85 N 82 W	20
75 N 14 W	5	85 N 84 W	25
75 N 16 W	25	85 N 85 W	15
75 N 18 W	15	85 N 86 W	15
75 N 20 W	20	90 N 46 W	30
75 N 58 W	25	85 N 84 W	30
75 N 60 W	15	90 N 60 W	20
75 N 62 W	25	90 N 62 W	25
75 N 64 W	25	90 N 86 W	25
75 N 68 W	20	90 N 90 W	65
75 N 70 W	35	95 N 16 W	30
70 N 74 W	30	95 N 18 W	40
80 N 6 W	20	95 N 20 W	40
80 N 8 W	20	95 N 22 W	25
85 N 4 W	35	100 N 16 W	25
85 N 6 W	45	100 N 18 W	30
85 N 8 W	15	100 N 20 W	35
85 N 10 W	25	100 N 22 W	20
85 N 12 W	15	100 N 24 W	30
85 N 14 W	10	105 N 16 W	15
85 N 16 W	25	105 N 18 W	30
85 N 26 W	5	105 N 20 W	20
85 N 30 W	15	105 N 22 W	25
85 N 32 W	5	110 N 16 W	5
85 N 34 W	5	110 N 18 W	30

.....4

Results ... Continued

<u>Sample No.</u>	<u>Copper (ppm)</u>
110 N 20 W	30
110 N 22 W	40
110 N 24 W	15
110 N 26 W	40
115 N 16 W	45
115 N 18 W	55
115 N 20 W	35
115 N 22 W	15
115 N 24 W	35
115 N 26 W	25
90 N 26 W	25

COAST ELDRIDGE



D. Timuss,
PROVINCIAL ASSAYER.

/ah



**WARNOCK HERSEY
INTERNATIONAL LIMITED**

125 East 4th Ave., Vancouver 10, B.C. Phone 876-4111 - Telex 04-50353

**COAST ELDRIDGE
PROFESSIONAL SERVICES DIVISION**

REPORT OF: **Geochemical Analysis**
 AT **Vancouver Laboratory**
 PROJECT: **Soil Samples**
 REPORTED TO: **Alpha Mines**
1111 - 409 Granville Street
VANCOUVER, B. C.

FILE NO **584**
 DATE **August 6, 1968**
 REPORT NO
 ORDER NO.

We have tested 399 samples of soil submitted by you on July 19, 1968, and report as hereunder:

TEST PROCEDURE:

The samples were tested by the "Total Extraction" method.

RESULTS:

<u>Sample No.</u>	<u>Copper (ppm)</u>	<u>Sample No.</u>	<u>Copper (ppm)</u>
25 N 11 W	5	35 N 15 W	40
25 N 13 W	10	35 N 17 W	5
25 N 17 W	10	35 N 74 W	10
25 N 23 W	10	35 N 80 W	5
25 N 25 W	35	35 N 82 W	10
25 N 29 W	10	40 N 62 W	40
30 N 1 W	20	40 N 74 W	35
30 N 3 W	20	40 N 76 W	25
30 N 5 W	25	40 N 78 W	15
30 N 7 W	35	40 N 84 W	15
30 N 15 W	45	45 N 64 W	25
30 N 17 W	40	45 N 66 W	20
30 N 19 W	10	45 N 68 W	10
30 N 21 W	40	45 N 70 W	5
30 N 23 W	25	45 N 72 W	30
30 N 25 W	5	45 N 74 W	30
30 N 27 W	10	45 N 76 W	45
30 N 29 W	10	45 N 82 W	20
35 N 11 W	20	45 N 84 W	30
35 N 13 W	40	45 N 88 W	25

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RESULTS ... Continued

Page 2

<u>Sample No.</u>	<u>Copper (ppm)</u>	<u>Sample No.</u>	<u>Copper (ppm)</u>
45 N 90 W	20	66 N 57 W	15
50 N 62 W	40	68 N 15 W	10
50 N 64 W	25	70 N 15 W	10
50 N 66 W	25	70 N 66 W	5
50 N 70 W	20	70 N 68 W	5
50 N 72 W	20	70 N 72 W	30
50 N 74 W	15	70 N 80 W	10
50 N 76 W	15	70 N 82 W	5
50 N 78 W	5	72 N 15 W	5
50 N 80 W	20	74 N 15 W	10
50 N 82 W	5	75 N 66 W	15
50 N 84 W	15	76 N 15 W	15
50 N 86 W	5	78 N 15 W	15
55 N 22 W	5	80 NO +00	20
55 N 26 W	10	80 N 2 W	10
55 N 28 W	10	80 N 4 W	15
55 N 30 W	5	80 N 10 W	15
55 N 68 W	15	80 N 12 W	5
55 N 70 W	5	80 N 14 W	10
55 N 72 W	15	84 NO +00	25
55 N 78 W	5	84 N 15 W	25
55 N 80 W	5	85 NO +00	75
55 N 82 W	15	85 N 2 W	15
60 N 68 W	25	85 N 18 W	5
60 N 78 W	10	85 N 20 W	15
60 N 84 W	5	85 N 22 W	15
60 N 85 W	5	85 N 24 W	45
60 N 86 W	10	85 N 28 W	30
64 N 15 W	15	85 N 40 W	30
65 N 62 W	20	85 N 50 W	10
65 N 74 W	15	85 N 52 W	85
65 N 76 W	25	85 N 54 W	60
65 N 88 W	15	85 N 56 W	35
65 N 90 W	25	85 N 58 W	15
66 N 15 W	20	85 N 66 W	50

... 3



RESULTS ... Continued

<u>Sample No.</u>	<u>Copper (ppm)</u>	<u>Sample No.</u>	<u>Copper (ppm)</u>
85 N 68 W	25	90 N 88 W	35
85 N 88 W	40	90 N 88 W	30
85 N 90 W	30	36 N 24 W	50
86 N 15 W	10	37 N 24 W	55
90 N 16 W	30	38 N 24 W	20
90 N 18 W	35	39 N 24 W	35
90 N 20 W	45	40 N 24 W	40
90 N 22 W	50	40 N 26 W	30
90 N 24 W	30	40 N 28 W	25
90 N 28 W	30	40 N 32 W	25
90 N 30 W	5	40 N 34 W	10
90 N 32 W	25	40 N 36 W	40
90 N 34 W	20	40 N 38 W	25
90 N 36 W	35	40 N 56 W	40
90 N 38 W	30	45 N 12 W	25
90 N 40 W	20	45 N 22 W	25
90 N 42 W	10	45 N 14 W	15
90 N 44 W	10	48 N 40 W	65
90 N 48 W	5	48 N 42 W	15
90 N 50 W	370	48 N 44 W	25
90 N 52 W	35	50 N 24 W	35
90 N 54 W	25	30 W 76 N	20
90 N 56 W	40	15 N0 +00	40
90 N 58 W	35	15 N 2 W	30
90 N 64 W	15	15 N 4 W	5
90 N 66 W	60	15 N 6 W	10
90 N 68 W	60	15 N 8 W	10
90 N 70 W	60	15 N 10 W	35
90 N 72 W	30	15 N 12 W	15
90 N 74 W	65	15 N 14 W	165
90 N 76 W	55	15 N 16 W	40
90 N 78 W	40	15 N 18 W	15
90 N 80 W	35	15 N 20 W	20
90 N 82 W	10	15 N 22 W	5
90 N 84 W	5	15 N 24 W	40

... 4



RESULTS ... Continued

<u>Sample No.</u>	<u>Copper (ppm)</u>	<u>Sample No.</u>	<u>Copper (ppm)</u>
15 N 26 W	20	30 N 48 W	20
15 N 28 W	35	30 N 50 W	185
15 N 30 W	35	30 N 52 W	60
15 N 32 W	15	30 N 54 W	15
15 N 34 W	40	30 N 56 W	30
15 N 36 W	5	30 N 58 W	35
15 N 38 W	15	30 N 60 W	25
15 N 40 W	40	30 N 62 W	45
15 N 42 W	25	30 N 64 W	45
15 N 44 W	30	30 N 66 W	60
15 N 46 W	25	30 N 68 W	55
15 N 48 W	35	30 N 70 W	30
15 N 50 W	55	30 N 72 W	40
15 N 52 W	35	30 N 74 W	30
15 N 54 W	40	30 N 76 W	15
15 N 56 W	45	30 N 78 W	20
15 N 58 W	15	30 N 80 W	20
15 N 60 W	15	30 N 82 W	15
15 N 61 W	30	30 N 84 W	5
15 N 62 W	40	30 N 86 W	40
15 N 64 W	50	30 N 88 W	45
15 N 66 W	35	30 N 90 W	30
15 N 68 W	25	35 N 24 W	65
15 N 70 W	40	35 N 26 W	40
15 N 72 W	25	35 N 28 W	35
15 N 76 W	35	35 N 30 W	15
15 N 78 W	35	35 N 32 W	15
15 N 80 W	40	35 N 34 W	10
15 N 82 W	40	35 N 36 W	20
15 N 84 W	45	35 N 38 W	25
15 N 86 W	25	35 N 40 W	30
15 N 88 W	25	35 N 42 W	5
15 N 90 W	15	35 N 44 W	15
15 N 54 W	30	35 N 46 W	15
30 N 44 W	25	35 N 48 W	20

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RESULTS ... Continued

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<u>Sample No.</u>	<u>Copper (ppm)</u>	<u>Sample No.</u>	<u>Copper (ppm)</u>
35 N 50 W	15	10 N 54 W	55
35 N 52 W	15	10 N 56 W	50
35 N 54 W	15	10 N 58 W	40
35 N 58 W	40	10 N 66 W	25
35 N 60 W	45	10 N 68 W	60
35 N 62 W	20	10 N 70 W	40
35 N 64 W	5	10 N 72 W	35
35 N 66 W	35	10 N 74 W	105
35 N 68 W	15	10 N 76 W	45
35 N 70 W	45	10 N 76 W	30
5 N 32 W	30	10 N 80 W	30
5 N 34 W	20	10 N 82 W	35
5 N 36 W	15	10 N 84 W	30
5 N 40 W	30	10 N 86 W	20
5 N 42 W	50	10 N 88 W	45
5 N 44 W	40	10 N 90 W	35
5 N 46 W	30	25 N 6 W	15
5 N 50 W	55	25 N 8 W	65
5 N 52 W	55	25 N 10 W	60
5 N 64 W	35	25 N 14 W	60
5 N 66 W	40	25 N 16 W	40
5 N 68 W	40	25 N 18 W	45
5 N 72 W	55	25 N 20 W	55
5 N 76 W	55	25 N 22 W	35
5 N 78 W	25	25 N 24 W	35
5 N 80 W	40	25 N 26 W	25
5 N 82 W	60	25 N 28 W	15
5 N 84 W	30	25 N 30 W	40
5 N 86 W	30	25 N 32 W	40
5 N 88 W	65	25 N 34 W	40
5 N 90 W	40	25 N 36 W	15
30 N 22 W	35	25 N 38 W	5
10 N 34 W	40	25 N 42 W	40
10 N 36 W	40	25 N 48 W	5
10 N 38 W	10	25 N 50 W	15
10 N 44 W	45	25 N 50 W	20
10 N 46 W	30	25 N 52 W	30
10 N 48 W	35	25 N 54 W	5
10 N 50 W	35	25 N 56 W	15
10 N 52 W	30	25 N 58 W	10



RESULTS ... Continued

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<u>Sample No.</u>	<u>Copper (ppm)</u>	<u>Sample No.</u>	<u>Copper (ppm)</u>
25 N 60 W	15	20 N 24 W	80
25 N 76 W	5	20 N 30 W	15
25 N 78 W	5	20 N 32 W	50
25 N 82 W	25	20 N 34 W	35
25 N 84 W	20	20 N 36 W	50
25 N 86 W	5	20 N 38 W	30
25 N 88 W	20	20 N 40 W	35
25 N 90 W	5	20 N 42 W	50
30 NO +00	35	20 N 43 W	20
30 N 2 W	50	20 N 46 W	35
30 N 4 W	25	20 N 48 W	25
30 N 16 W	10	20 N 50 W	45
30 N 18 W	40	20 N 52 W	30
30 N 20 W	220	20 N 54 W	25
30 N 24 W	20	20 N 56 W	30
30 N 26 W	20	20 N 58 W	35
30 N 28 W	35	20 N 60 W	15
30 N 30 W	80	20 N 64 W	30
30 N 32 W	10	20 N 66 W	35
30 N 36 W	20	20 N 68 W	25
30 N 38 W	10	20 N 70 W	35
30 N 40 W	20	20 N 72 W	55
30 N 42 W	5	20 N 74 W	75
17 NO +00	30	20 N 76 W	55
17 N 2 W	30	20 N 78 W	40
17 N 4 W	15	20 N 80 W	55
17 N 6 W	5	20 N 82 W	110
17 N 8 W	25	20 N 84 W	25
17 N 10 W	25	20 N 86 W	20
17 N 12 W	105	20 N 88 W	35
17 N 14 W	45	20 N 90 W	15
17 N 16 W	45	25 NO +00	55
17 N 18 W	30	25 N 2 W	65
17 N 20 W	15	25 N 4 W	50
20 N 22 W	65		

COAST ELDRIDGE

D. Timmiss
 D. Timmiss
 Provincial Assayer

/bg



**WARNOCK HERSEY
INTERNATIONAL LIMITED**

125 East 4th Ave., Vancouver 10, B.C. Phone 876-4111 - Telex 04-50353

**COAST ELDRIDGE
PROFESSIONAL SERVICES DIVISION**

REPORT OF: **Geochemical Analysis**
 AT **Vancouver Laboratory**
 PROJECT: **Soil Samples**
 REPORTED TO: **Alpha Mines Ltd.
 1111 - 409 Granville Street
 VANCOUVER, B. C.**

FILE NO. **357**
 DATE **August 7, 1968**
 REPORT NO.
 ORDER NO.

We have tested 286 samples of soil submitted by you and report as hereunder:

TEST PROCEDURE:

The samples were tested by the "Total Extraction" method.

RESULTS:

<u>Sample No.</u>	<u>Copper (ppm)</u>	<u>Sample No.</u>	<u>Copper (ppm)</u>
27 W 52 N	35	10 N 64 W	35
27 W 54 N	45	20 N 26 W	110
27 W 56 N	35	20 N 28 W	60
27 W 58 N	15	20 N 62 W	40
27 W 60 N	35	25 N 40 W	25
28 W 60 N	30	25 N 44 W	25
5 N 38 W	35	25 N 46 W	30
5 N 48 W	25	25 N 62 W	40
5 N 54 W	55	25 N 64 W	25
5 N 56 W	15	25 N 66 W	35
5 N 58 W	30	25 N 68 W	40
5 N 60 W	35	25 N 70 W	35
5 N 62 W	35	25 N 72 W	20
5 N 70 W	30	25 N 74 W	40
5 N 74 W	35	30 N 80 W	25
10 N 32 W	30	30 N 6 W	40
10 N 40 W	30	30 N 8 W	40
10 N 42 W	50	30 N 10 W	55
10 N 60 W	35	30 N 12 W	35
10 N 62 W	35	30 N 14 W	105

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RESULTS ... Continued

<u>Sample No.</u>	<u>Copper (ppm)</u>	<u>Sample No.</u>	<u>Copper (ppm)</u>
30 N 34 W	20	40 N 30 W	25
30 N 46 W	15	40 N 40 W	20
30 W 60 N	25	40 N 42 W	35
30 W 62 N	30	40 N 44 W	55
30 W 64 N	25	40 N 46 W	50
30 W 66	20	40 N 48 W	15
30 N 68 W	20	40 N 50 W	20
30 N 70 W	35	40 N 52 W	50
30 W 72 N	50	40 N 54 W	10
30 W 74 N	30	40 N 58 W	35
30 W 78 N	20	40 N 60 W	45
30 W 80 N	25	41 N 24 W	35
30 W 82 N	25	42 N 24 W	30
35 N 0+00	15	43 N 24 W	25
35 N 2 W	20	44 N 24 W	15
35 N 4 W	55	45 N 0+00	35
35 N 6 W	15	45 N 2 W	40
35 N 8 W	40	45 N 4 W	25
35 N 10 W	15	45 N 6 W	40
35 N 12 W	40	45 N 8 W	35
35 N 14 W	40	45 N 10 W	25
35 N 16 W	30	45 N 16 W	45
35 N 18 W	50	45 N 18 W	30
40 N 0+00	5	45 N 20 W	30
40 N 2 W	125	45 N 24 W	35
40 N 4 W	30	45 N 26 W	30
40 N 6 W	40	45 N 28 W	10
40 N 8 W	35	45 N 30 W	20
40 N 10 W	20	45 N 32 W	25
40 N 12 W	25	45 N 34 W	55
40 N 14 W	25	45 N 36 W	50
40 N 16 W	55	45 N 38 W	20
40 N 18 W	40	45 N 40 W	35
40 N 20 W	10	45 N 42 W	40
40 N 22 W	50	45 N 46 W	20

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RESULTS ... Continued

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<u>Sample No.</u>	<u>Copper (ppm)</u>	<u>Sample No.</u>	<u>Copper (ppm)</u>
45 N 48 W	25	43 W 54 N	10
45 N 50 W	35	43 W 56 N	25
45 N 52 W	30	43 W 58 N	15
45 N 54 W	20	43 W 60 N	40
45 N 56 W	50	43 W 62 N	30
45 N 58 W	40	43 W 64 N	10
45 N 60 W	35	65 N 40 W	5
45 N 62 W	30	65 N 42 W	5
48 N 32 W	50	72 W 76 N	5
48 N 34 W	30	72 W 78 N	25
48 N 36 W	40	80 N 16 W	10
48 N 38 W	30	80 N 18 W	20
48 N 46 W	20	80 N 20 W	20
50 N 0+00	10	80 N 22 W	20
50 N 2 W	35	80 N 24 W	35
50 N 4 W	20	80 N 26 W	25
50 N 6 W	15	80 N 28 W	10
50 N 8 W	40	80 N 34 W	5
50 N 10 W	20	80 N 36 W	5
50 N 12 W	30	80 N 38 W	10
50 N 14 W	15	80 N 40 W	15
50 N 16 W	30	80 N 42 W	15
50 N 18 W	60	80 N 44 W	15
50 N 20 W	20	80 N 46 W	15
50 N 22 W	30	80 N 48 W	5
50 N 26 W	40	80 N 50 W	5
50 N 28 W	20	80 N 52 W	25
50 N 30 W	45	80 N 54 W	10
50 N 32 W	65	80 N 56 W	20
45 N 32 W	20	80 N 58 W	5
45 N 54 W	20	80 N 60 W	10
45 N 44 W	15	80 N 62 W	5
43 W 46 N	5	80 N 64 W	10
43 W 50 N	Trace	80 N 66 W	5
43 W 52 N	10	80 N 68 W	10

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RESULTS ... Continued

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<u>Sample No.</u>	<u>Copper (ppm)</u>	<u>Sample No.</u>	<u>Copper (ppm)</u>
80 N 70 W	5	99 N 82 W	20
80 N 72 W	5	100 N 26 W	15
82 W 96 N	10	100 N 28 W	15
82 W 98 N	10	100 N 30 W	20
95 N 24 W	15	100 N 32 W	20
95 N 26 W	5	100 N 34 W	5
95 N 28 W	5	100 N 36 W	10
95 N 30 W	15	100 N 38 W	5
95 N 32 W	20	100 N 40 W	5
95 N 34 W	20	100 N 42 W	5
95 N 36 W	15	100 N 44 W	30
95 N 36 W	10	100 N 46 W	10
95 N 38 W	20	100 N 48 W	45
95 N 40 W	25	100 N 50 W	75
95 N 42 W	30	100 N 52 W	170
95 N 44 W	30	100 N 54 W	50
95 N 46 W	10	100 N 56 W	45
95 N 48 W	25	100 N 58 W	30
95 N 50 W	40	100 N 60 W	10
95 N 52 W	40	115 N 54 W	5
95 N 54 W	30	115 N 56 W	5
95 N 56 W	30	115 N 58 W	10
95 N 58 W	15	115 N 60 W	15
95 N 60 W	25	115 N 62 W	15
95 N 62 W	25	115 N 64 W	15
95 N 64 W	15	115 N 66 W	10
95 N 66 W	40	115 N 68 W	20
95 N 68 W	30	115 N 70 W	25
95 N 70 W	40	115 N 72 W	30
95 N 72 W	35	115 N 74 W	10
95 N 74 W	25	115 N 76 W	15
95 N 76 W	60	115 N 78 W	15
95 N 78 W	20	115 N 80 W	40
95 N 80 W	60	115 N 82 W	25
95 N 82 W	40	115 N 84 W	20

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RESULTS ... Continued

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<u>Sample No.</u>	<u>Copper (ppm)</u>	<u>Sample No.</u>	<u>Copper (ppm)</u>
115 N 86 W	25	120 N 60 W	5
115 N 88 W	20	120 N 62 W	5
115 N 90 W	30	120 N 64 W	30
120 N 26 W	20	120 N 66 W	5
120 N 28 W	20	120 N 68 W	5
120 N 30 W	100	120 N 70 W	5
120 N 32 W	25	120 N 72 W	5
120 N 34 W	20	120 N 74 W	5
120 N 36 W	5	120 N 76 W	5
120 N 38 W	5	120 N 78 W	5
120 N 40 W	30	120 N 80 W	5
120 N 42 W	35	120 N 82 W	5
120 N 44 W	30	120 N 84 W	15
120 N 46 W	10	120 N 86 W	40
120 N 48 W	20	120 N 88 W	40
120 N 50 W	10	120 N 90 W	25
120 N 52 W	10		
120 N 54 W	5		
120 N 56 W	15		
120 N 58 W	45		

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PROFESSIONAL
SERVICES
DIVISION

125 East 4th Ave., Vancouver 10, B.C. Phone B76-4111 - Telex 04-50353

REPORT OF **Geochemical Analysis**
AT **Vancouver Laboratory**
PROJECT **Soil Samples**
REPORTED TO **Alpha Mines,
Room 1111,
409 Granville Str.,
Vancouver 2, B.C.**

FILE NO **557 - A**
DATE **August 12, 1968**
REPORT NO
ORDER NO

We have tested eighty six samples of soil submitted by you and report as hereunder:

TEST PROCEDURE:

The samples were tested by the "Total Extraction" Method.

RESULTS:

<u>Sample No.</u>	<u>Copper (ppm)</u>	<u>Sample No.</u>	<u>Copper (ppm)</u>
105 N 48 W	5	105 N 90 W	15
105 N 50 W	5	100 N 62 W	30
105 N 52 W	20	100 N 64 W	5
105 N 54 W	Insufficient Sample	100 N 66 W	5
105 N 56 W	20	100 N 68 W	10
105 N 58 W	5	100 N 70 W	15
105 N 60 W	5	100 N 72 W	25
105 N 62 W	15	100 N 74 W	30
105 N 64 W	5	100 N 76 W	30
105 N 66 W	5	100 N 78 W	65
105 N 68 W	25	100 N 80 W	30
105 N 70 W	5	100 N 82 W	20
105 N 72 W	trace	100 N 84 W	35
105 N 74 W	5	105 N 26 W	20
105 N 76 W	15	105 N 28 W	5
105 N 78 W	15	105 N 30 W	5
105 N 80 W	10	105 N 32 W	20
105 N 82 W	30	105 N 34 W	15
105 N 84 W	5	105 N 36 W	10
105 N 86 W	15	105 N 38 W	15
105 N 88 W	15	105 N 40 W	15

.....2

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RESULTS ... Continued

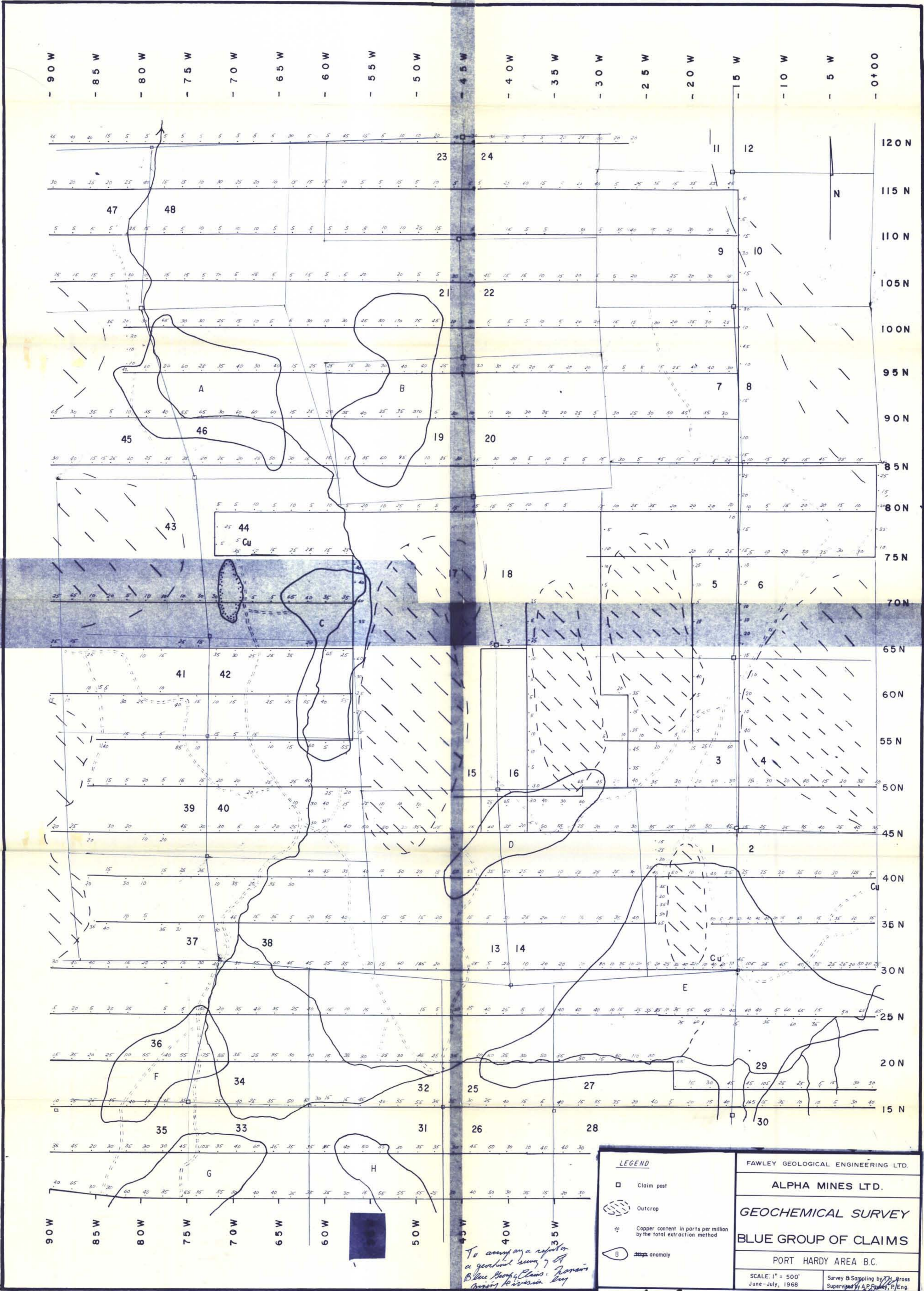
Alpha Mines.

<u>Sample No.</u>	<u>Copper (ppm)</u>	<u>Sample No.</u>	<u>Copper (ppm)</u>
105 N 42 W	45	110 N 66 W	5
105 N 44 W	30	110 N 68 W	10
105 N 46 W	35	110 N 70 W	10
110 N 74 W	10	110 N 72 W	5
110 N 76 W	5		
110 N 78 W	5		
110 N 80 W	15		
110 N 82 W	25		
110 N 84 W	5		
110 N 86 W	5		
110 N 88 W	5		
110 N 90 W	5		
115 N 28 W	5		
115 N 30 W	40		
115 N 32 W	20		
115 N 34 W	15		
115 N 36 W	15		
115 N 38 W	60		
115 N 40 W	25		
115 N 42 W	Insufficient sample		
115 N 43 W	5		
115 N 44 W	5		
115 N 46 W	5		
115 N 48 W	10		
115 N 50 W	5		
115 N 52 W	15		
110 N 28 W	35		
110 N 30 W	5		
110 N 32 W	30		
110 N 34 W	Insufficient sample		
110 N 36 W	5		
110 N 38 W	5		
110 N 40 W	15		
110 N 42 W	Insufficient sample		
110 N 44 W	5		
110 N 46 W	Insufficient sample		
110 N 48 W	15		
110 N 50 W	25		
110 N 52 W	10		
110 N 54 W	10		
110 N 56 W	5		
110 N 58 W	5		
110 N 60 W	5		
110 N 62 W	5		
110 N 64 W	5		

COAST ELDRIDGE



D. Timuss,
PROVINCIAL ASSAYER.



To accompany a report
a geological survey of
Blue Group of Claims, Port Hardy
British Columbia
H. P. Fawley, P. Eng.
10 dated Dec 10, 1968.

LEGEND
 □ Claim post
 [Hatched] Outcrop
 40 Copper content in parts per million by the total extraction method
 B [Symbol] anomaly

FAWLEY GEOLOGICAL ENGINEERING LTD.
 ALPHA MINES LTD.
GEOCHEMICAL SURVEY
BLUE GROUP OF CLAIMS
 PORT HARDY AREA B.C.
 SCALE: 1" = 500'
 June-July, 1968
 Survey & Sampling by [Name]
 Supervised by A.P. Fawley, P. Eng.

1662
 [Signature]
 Oct 1968