

3425

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 3425 MAP

Report on the Geochemical Survey of
 Mineral Claims Hobo 172-175, Record #
 10107-10110, Ruby-Cracker Creeks,
 Atlin Mining Division, British Columbia.

(Claims are located in the Atlin Quadrangle
 17 miles NE of Atlin 59°N 133° W.S.E.)

for 104 N / 11W

Canadian Johns - Manville Co. Ltd.
 Box 1500, Asbestos, Que.

Survey: June 21-June 23, 1971

Report: November 13, 1971

H.K. Conn

Supervisor: H.K. Conn, P.Eng.

By

Clive Aspinall, B.Sc.

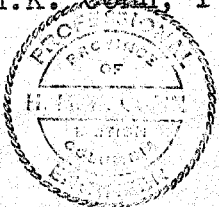


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Summary and Conclusions

In June 1971 a grid system was laid out over Hobo 172-175 and 83 geochem soil samples were collected by Canadian Johns-Manville Co. Ltd employees. These samples were assayed for Cu, Pb, Zn, Mo, Ni. Statistical analysis of the geochemical results showed Cu, Pb, Zn, Ni anomalous patterns, Mo being relatively insignificant. In the interpretation of the anomalous results Ni was disregarded as the geochemical environment suggested that it was really not abnormal. Further geochem sampling is warranted to the South and South East of the present survey to follow up the Cu, Pb, Zn anomalies.

Property and Ownership

Canadian Johns-Manville Co. Ltd. staked and are the owners of Hobo 172-175 (Record #10107-10110). These claims were recorded in Atlin on November 13, 1968, and are four of a much larger claim block owned by the Company in the Ruby Creek area.

Location and Access

The Hobo 172-175 mineral claims are located 17 miles North East of the community of Atlin in North Western British Columbia. The property is located 17 miles South of the Yukon border, and its geographical location is $59^{\circ} 42.5' N$, $133^{\circ} 24' W$.

Access can be gained to within 2 miles of the property by a gravel road from Atlin. This gravel road leads up Ruby Creek from Surprise Lake to the Adanac property located 3 miles to the South West of the Hobo 172-175 claim group.

Topography

The claims are located in a glaciated U-shaped valley at the headwaters of Ruby and Cracker Creeks. The claims are situated on the floor of the valley and have an elevation of 4500' (asl) with a local relief of one to two hundred feet. To the North and South, immediately beyond the claim boundaries are the slopes of mountains whose summits reach 6000'. Mt. Barham two miles to the North West, is the highest mountain in the area whose peak reaches 6869'.

Climate and Vegetation

The Hobo 172-175 claims are free of snow from July to September. Snow fall is approximately 1-3 feet and winter temperatures range from +10°F to -60°F. Strong winds during the fall and spring months are not uncommon. Summer temperatures average 40°- 50° F and rain showers are frequent in July and August.

The Hobo 172-175 claim group is located entirely above tree line. Alpine grass, generally quite short and sparse in places, as well as buckbrush and occasional small willow grow within the claim group.

History

During 1967 and 1968 a large block of claims were staked in the Ruby Creek area by Canadian Johns-Manville Co. Ltd. and Adanac Mining and Exploration Ltd. The claims were staked to cover and protect several molybdenite showings on that creek and surrounding mountains. The Hobo 172-175 mineral claims were staked as possible unmineralized ground that would support a mine tailings dump should the area ever be developed. The Geochemical Survey covered by this report is part of a program to check the underlying bedrock for possible mineralization.

Previous to 1967 the Ruby Creek molybdenite showings had been repeatedly staked by individual prospectors and allowed to lapse.

Other activity in the Ruby Creek valley was in 1950-52 when Transcontinental Resources Ltd. partially developed a Wolframite vein between Boulder and Ruby Creeks. The Ruby Creek valley has also been of interest to placer miners as auriferous gravels occur in the creek up to 2 miles north of Surprise Lake. The search for placer gold has also been carried out on Cracker Creek.

Geology

Geological information on the area is based largely on Aitkens (1959) report "Atlin Map Area, British Columbia, Geological Survey of Canada, Memoir 307". Detailed geological studies within the Ruby Creek valley have also been made by the writer as well as geologists employed by Adanac Mining and Exploration Ltd.

The Hobo 172-175 claim group for the most part is underlain by glacial gravels and felsenmeer areas composed mostly of ultramafic rocks. As the mountains immediately to the North and South are composed of Permian peridotites and dunites associated with Cache Creek meta-sediments, it is reasonable to assume that bedrock below the glacial till is also composed of these rocks. To the South, the ultramafic rocks are actually a roof pendant overlying Cretaceous-Tertiary Alaskites of the Surprise Lake batholith.

GEOCHEMISTRY

Geochemical Environment

The geochemical environment of the Hobo 172-175 claims involve several factors which will be briefly discussed below.

1) As the whole area is covered by snow up to 9 months of the year, physical erosion rather than chemical erosion is considered to be the most important type of weathering.

Physical erosion here would involve freeze-thaw action, frost heaving, nivation and debris and snow slides.

2) As bedrock below the glacial till is assumed to be dunite and peridotite, and as the adjacent mountains consist of these rocks, elements such as nickel would be expected to be concentrated in the soils here as opposed to molybdenite.

3) As all the soils collected consisted of glacial till anomalous samples could have been transported from elsewhere.

Procedure followed in collecting Geochem samples

A 2600' baseline was initially surveyed in using a 200' chain and Brunton compass. The baseline was laid out along the Hobo 172-175 claim location line, bearing 4° West of North. Seven offset lines at right angles to the baseline were surveyed in by the same method. These offset lines extend 1000' on each side of the baseline. Footage markers were placed every two hundred feet on the baseline and the offset lines. From June 21 to June 23, 1971 two summer students employed by Canadian Johns-

Manville Co. Ltd. collected 83 soil samples along this grid system at 200' intervals.

All samples were collected in wet strength paper envelopes and air dried before shipment to the Vancouver laboratories of Bondar-Clegg & Co. Ltd.

Analytical Techniques

The samples received in the laboratory were prepared for analysis as follows:

The soil samples were dried at 80°C in infrared heated ovens, sieved to -80 mesh in 8" stainless steel sieves (W.S. Tyler Company of Canada type). The -80 mesh fraction type was retained for analysis, the + 80 mesh fraction was rejected. The -80 mesh fraction was digested in hot aqua regia and the metals Cu, Pb, Zn, Ni, Mo were determined by atomic absorption. The detection limits using this method are outlined below.

Cu - detection limit 1 ppm
Pb - detection limit 2ppm
Zn - detection limit 1 ppm
Mo - detection limit 1 ppm
Ni - detection limit 1 ppm

Classification and Presentation of Data

The analytical data was plotted on histograms for each of the metals. Profiles of the histograms are attached.

The analyses were also subjected to a statistical program

to determine the arithmetic mean and the standard deviation for each metal. Using these parameters the sample data were classified into five categories for each element as follows:

Negative	$0 - (\bar{x})$
Possibly anomalous	$(\bar{x} + 1) - (\bar{x} \pm S)$
Probable Anomalous	$(\bar{x} + S + 1) - (x + 2S)$
Anomalous	$(\bar{x} + 2S + 1) - (x + 3S)$
Strongly Anomalous	$(\bar{x} + 3S + 1)$

where:

" \bar{x} " is the arithmetic mean.

"S" is the standard deviation.

Sample locations are shown on 1:200 scale maps.

Analytical results (in parts per million -ppm) are plotted at the sample stations on individual map sheets showing values of each element. Anomalous results are shown by colours depending on their category.

Discussion of data and Conclusions (Refer to Geochem maps)

Of the five elements analysed, Copper, Lead, Zinc and Nickel show anomalous and strong anomalous values while molybdenite shows only possible anomalous values. Due to ultramafic rocks being highly significant in this area and due to the fact that these rocks are naturally nickel bearing in sub-economic quantities, the anomalous nickel values can be disregarded as not significant in this survey. The molybdenite values can also be disregarded

as the over all values are too low as compared to previous surveys in the Ruby Creek area. Molybdenite surface showings probably do not lie within this local drainage pattern, but this element still may be located at depth.

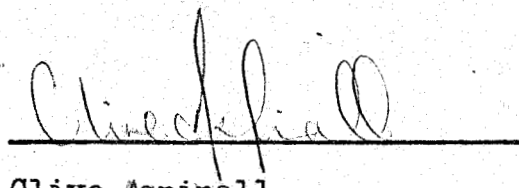
Follow up geochem sampling should be continued for Cu, Pb, Zn further to the south and south east of the present sampled area, as these elements are concentrated in the southern portion of this survey. The Copper could be localized within the ultramafic contact zones and the lead and zinc could emanate from the Cache Creek meta sediments.

Statement of Qualifications

I, Nicholas Clive Aspinall do hereby certify that:

- 1) I am a geologist employed by Canadian Johns-Manville Co. Ltd.
- 2) I am a graduate of McGill University, Montreal, P.Q.
B.Sc. 1964.
- 3) I have attended Memorial University of Newfoundland for one year to study Geology, 1970-71.
- 4) I have practised in the geological profession for seven years.
- 5) This report is based on study of published geological maps and field information gathered by Canadian Johns-Manville Co. Ltd. employees, by the writer and on analytical information from the Vancouver laboratory of Bondar-Clegg and Company Ltd.

November 13, 1971



Clive Aspinall

Atlin, B.C.

APPENDIX I

Statement of Qualifications

Statement of Qualifications

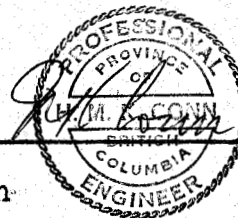
I, Herbert Keith Conn, of the town of Asbestos, do hereby declare that:

- 1) I am a Mining Geological Engineer employed as Exploration Manager for Canadian Johns-Manville Co. Ltd., Box 1500, Asbestos, P.Q.
- 2) I have practised in the geological profession for 23 years and specialized in economic geology and exploration procedures for the past 22 years.
- 3) I am a graduate of the University of Toronto, Ontario with a degree of B.A.Sc (Mining Geology) 1948.
- 4) I am a member of the following professional associations:
 - a) Corporation of Engineers of Quebec.
 - b) Non-resident member of the Association of Professional Engineers of the Province of British Columbia.
 - c) Fellow of the Geological Association of Canada.
 - d) Fellow of the Society of Economic Geologists.
 - e) Member of the Canadian Institute of Mining and Metallurgy.
 - f) Member of the American Institute of Mining Engineers.
- 5) This report is based on published and unpublished information.

November, 1971

H.K. Conn

Asbestos, Que



Expiry Date: Jan. 28, 1972

APPENDIX II

Statement of Costs

Statement of Costs

1) Grid System Survey	
Geologist Clive Aspinall 2 days @ \$38.46 per day..	\$ 76.92
Assistant Peter Nicholson 2 days @ \$20.38 per day	40.76
1 bundle picket lath	7.00
Sub total	<u>\$124.68</u>
2) Geochem Sampling	
Peter Nicholson, 3 days @ \$20.38 per day	\$ 61.14
Ingo Moritz, 3 days @\$18.84 per day	56.52
Sub total	<u>\$117.66</u>
3) Analytical	
83 samples @ \$3.50 per sample	\$290.50
Shipping charges	10.00
Sub total	<u>\$300.50</u>
4) Report Preparation	
Peter Nicholson, drafting base map 1 da @ \$20.38	\$ 20.38
A. Therrien, 2 da. plotting analytical data @\$32.30 per da.	\$ 64.60
C. Aspinall, 7 da. statistical analysis of data, interpretation and report writing @\$38.46 per da.	\$269.22
Office Supplies	\$ 20.00
Sub total	<u>\$394.20</u>
5) Travel from Atlin to property during survey	\$ 15.00
	Total <u>\$952.04</u>

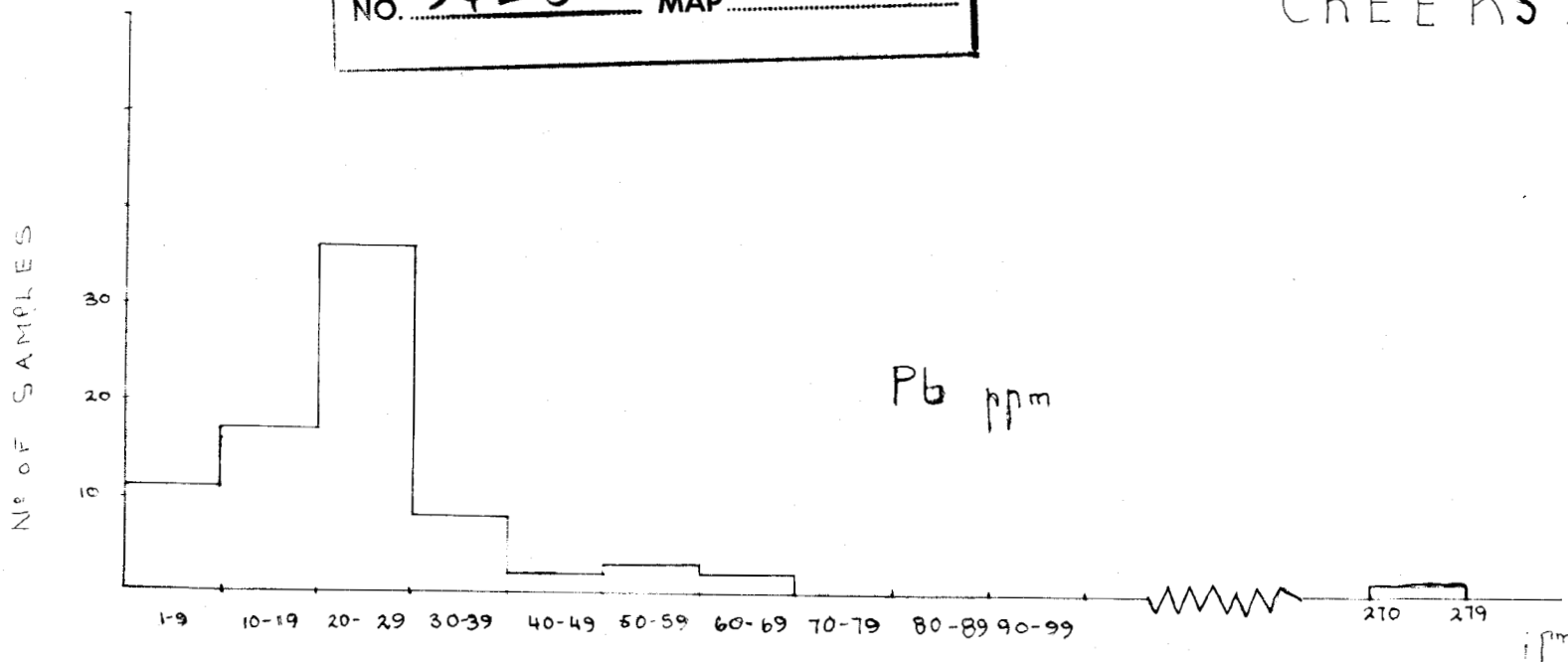
APPENDIX III

Histograms of Geochem Values

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ASSESSMENT REPORT

NO. 3425 MAP

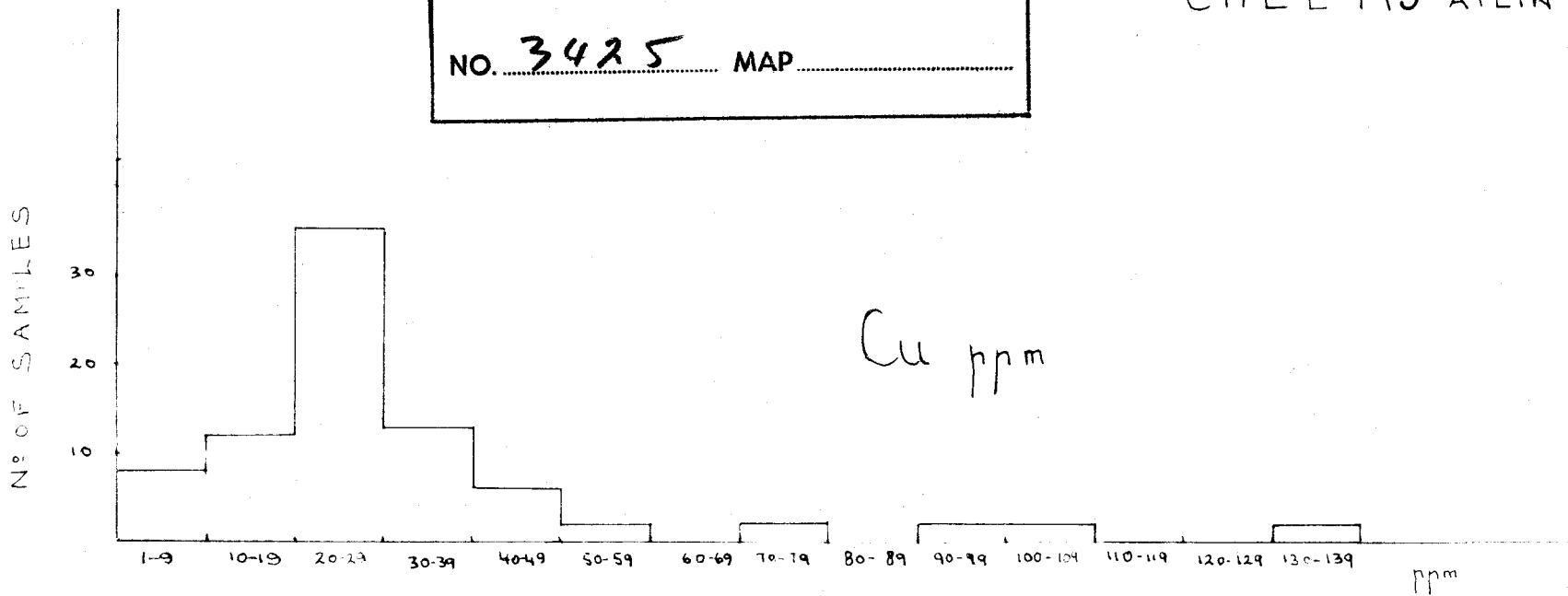
SOIL SAMPLES
HISTOGRAM OF
Pb VALUES, HOBO
172-175
RUBY-CRACKER
CREEKS ATLIN M.D. B.C.



SOIL SAMPLES
HISTOGRAM OF
Cu VALUES, HORB
172-175
RUBY-CRACKER
CREEKS ATLIN M.D. B.C.

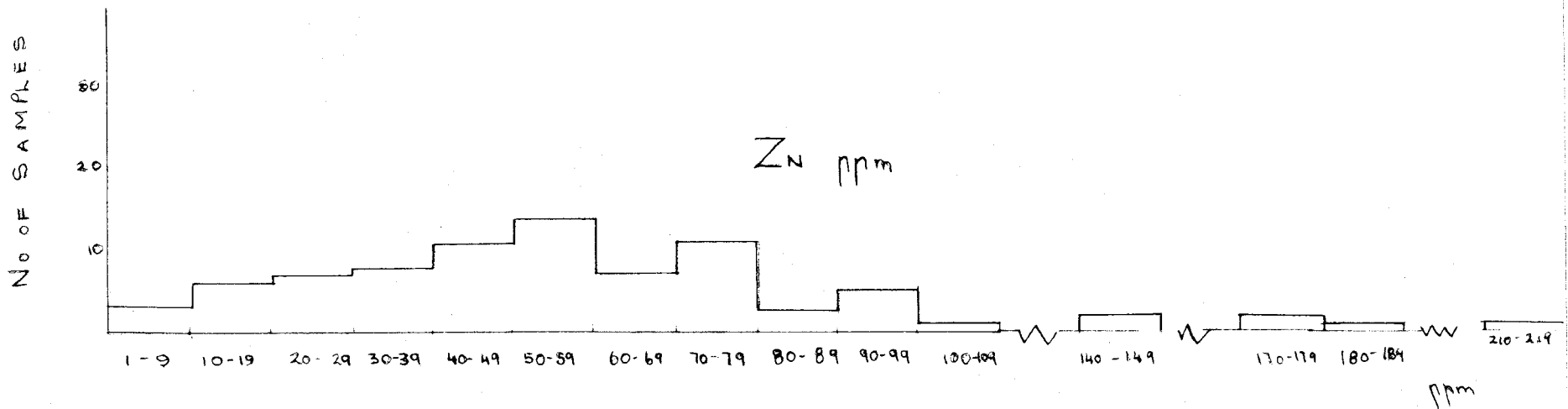
Department of
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ASSESSMENT REPORT

NO. 3425 MAP _____



SOIL SAMPLES
 HISTOGRAM OF
 Z_N VALUES, HOBO
 172-175
 RUBY-CRACKER
 CREEKS AT LIN M.P. B.C.

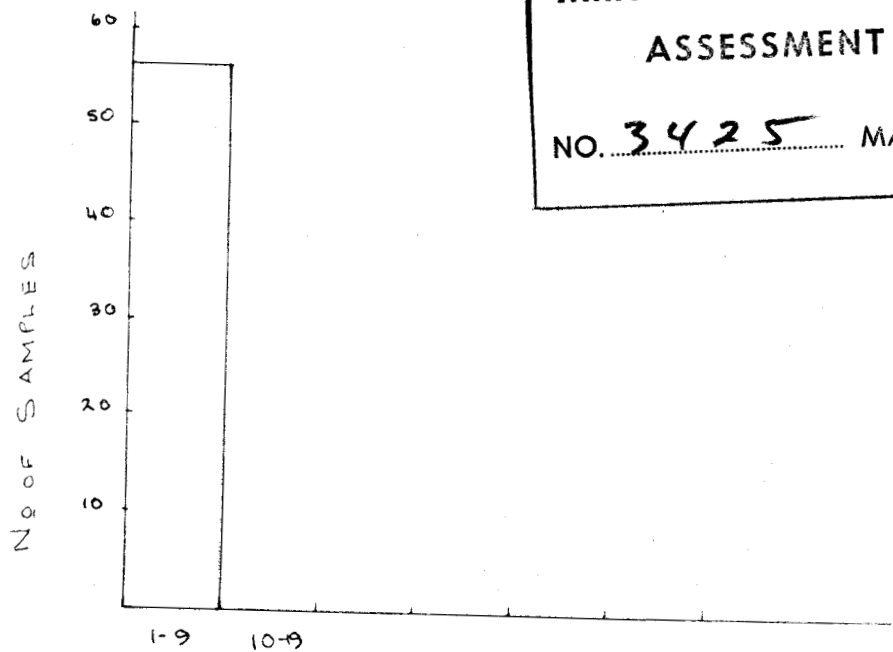
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SOIL SAMPLES
HISTOGRAM OF
Mo VALUES, HOBO
172-175
RUBY-CRACKER
CREEKS ATLWMP BC

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

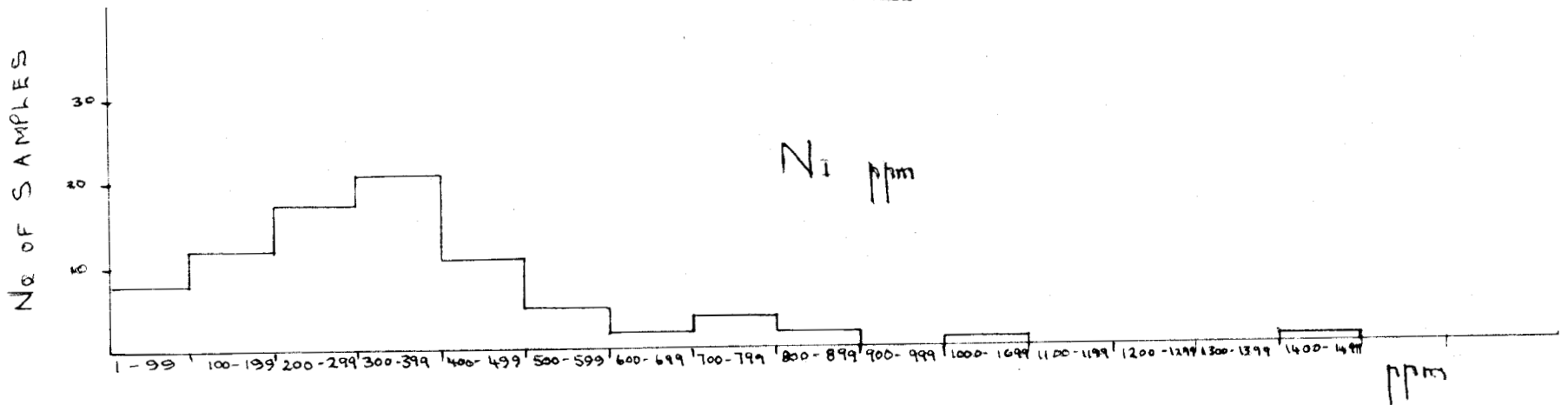
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ppm

SOIL SAMPLES
 HISTOGRAM OF
 Ni VALUES, HOBO
 172-175
 RUBY-CRACKER
 CREEKS AT LIN MP BC

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 3425 MAP



APPENDIX IV
Geochemical Field Data

CANADIAN JOHNS-MANVILLE Co. Ltd.

GEOCHEMICAL SOIL SURVEY DATA

 COLLECTOR: J MORITZ, L VEIRLINDEN.

 AREA: FTLIN BC.

 DATE: JULY 22 1971

 PROJECT: 12

 LOCATION REF.: MT WEIR

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
T1543	BL 01005	✓	MOUNTAINOUS	TALLS FINES	B 7"	BROWN	M	SOME SAND, GRAVEL, ON TALUS SLOPE, ORG. - LOW.					
T1544	BL 2+005	✓	"	"	B 7"	"	F-M	ORGANIC MOD					
T1545	BL 4+005	✓	"	"	B 8"	"	F	SANDY, SOME ORGANIC LITTLE GRAVEL.					
T1546	BL 6+005	✓	"	"	B 6"	CREW	M	SANDY					
T1547	BL 8+005	✓	"	"	B 10"	BROWN	F-M	ORGANIC MODERATE.					
T1548	BL 10+005	✓	"	"	B 7"	"	"	LITTLE GRAVEL, ORGANIC HIGH, SANDY, NEAR SLEEP.					
T1549	BL 12+005	✓	"	"	B 8"	"	M	ORGANIC LOW, GRAVEL MOD. SANDY.					
T1550	BL 14+005	✓	"	"	B 6"	"	"	"					
T1551	BL 16+005	✓	"	"	B 9"	TAN	M-C	VERY SANDY, ORG. LOW.					
T1552	BL 17+750	✓	"	"	B 7"	"	F-M	VERY SANDY, NO ORG. SOME GRAVEL.					
T1553	BL 20+00	✓	"	"	B 7"	"	M	GRAVEL MODERATE					
T1554	BL 22+00	✓	"	"	B 12"	BROWN	M	ORGANIC LOW, SOME GRAVEL.					
T1555	BL 24+00	✓	"	"	B 7"	"	M	"					
T1556	BL 26+00	✓	"	"	B 8"	LIGHT BROWN	F-M	"					
T1557	BL 28+00	✓	"	"	B 8"	L. BROWN TO CREW	F-M	"					

CANADIAN JOHNS MANVILLE Co. Ltd.

GEOCHEMICAL SOIL SURVEY DATA

 COLLECTOR: J. MORITZ, L. VERLINDEN

 AREA: ATLIN B.C.

 DATE: JULY 22 1971

 PROJECT: 62

 LOCATION REF.: MT WEIR

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
J1552	BL 30+00	←	MOUNTAINOUS	TALUS FINES	B 7"	DARK BROWN	M	TALUS, SOME ORGANIC AND GRAVEL, SANDY					
J1559	BL 32+00	←	"	"	B 6"	"	M-C	GRAVEL MOD. ORGANIC LOW.					
J1560	BL 34+00	↙	"	"	B 7"	"	M-C	"					
J1561	BL 36+00	↙	"	"	B 7"	BROWN	M-C	SOME ORGANIC + GRAVEL MUCH TALUS					
J1562	BL 38+00	↙	"	"	B 5"	"	M	"					
J1563	BL 40+00	↙	"	"	B 6"	"	M-C	LOW ORGANIC, SOME GRAVEL, TOP OF Mtn.					
J1564	BL 42+00	↙	"	"	B 6"	"	M-C	"					
J1565	BL 44+00	↙	"	"	B 8"	"	M-C	"					
J1566	BL 46+00	←	"	"	B 9"	"	F-C	"					
J1567	BL 48+00	↙	"	"	B 7"	LIGHT BROWN	"	"					
J1568	BL 50+00	↙	"	"	B 4"	BROWN	M	"					
J1569	BL 52+00	↙	"	"	B 6"	"	M-C	LOW ORGANIC, SOME GRAVEL, SANDY.					
J1570	BL 54+00	↙	"	"	B 6"	"	M	"					
J1571	BL 56+00	↙	"	"	B 6"	"	M-C	"					
J1572	BL 58+00	↙	"	"	B 7"	"	M-C	"					

CANADIAN JOHNSMANVILLE Co. Ltd.

GEOCHEMICAL SOIL SURVEY DATA

 COLLECTOR: T. MORITZ, L. VERLINDEN

 AREA: ATLIN B.C.

 DATE: JULY 22 1971

 PROJECT: 62.

 LOCATION REF.: MT. WEIR

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS			
J1573	BL. L2100	↘	MOUNTAINOUS	TALE FINES	B 2"	BROWN	M	MUCH GRAVEL, LOW ORG.				
J1574	BL. L4100	↘	"	"	B 2"	"	F-M	GRASSY AREA MUCH ORGANIC.				
J1575	BL. L6100	↘	"	"	B 6"	"	F	WET + SANDY				
J1576	BL. L8100	↘	"	"	B 7"	"	M	"				
J1577	BL. L9100	↓	"	"	B 6"	DARK BROWN	C	TOP OF MT. RUBBLE MUCH GRAVEL, LOW ORGANIC				
J1578	LL8 2W	↘	"	"	B 7"	BROWN	M	GRAVEL LOW, ORGANIC MOD. SANDY				
J1579	LL8 4W	↘	"	"	B 6"	"	M-C	"				
J1580	LL8 6W	↘	"	"	B 6"	DARK BROWN	M	ORGANIC MOD. GRASSY SLOPE				
J1581	LL8 8W	↘	"	"	B 4"	DARK BROWN	M-C	GRAVEL + ORGANIC HIGH				
J1582	LL8 10W	↘	"	"	B 8"	BROWN	M	ORGANIC HIGH, SOME GRAVEL				
J1583	LL4 10W	↘	"	"	B 2"	"	M	" SANDY				
J1584	LL4 8W	↘	"	"	B 6"	"	M	"				
J1585	LL4 6W	↘	"	"	B 6"	LIGHT BROWN	F-M	SANDY, GRAVEL LOW ORG. LOW				
J1586	LL4 4W	↘	"	"	B 9"	BROWN	F-M	"				
J1587	LL4 2W	↘	"	"	B 4"	"	M	"				

CANADIAN JOHNSMANVILLE Co. Ltd.

GEOCHEMICAL SOIL SURVEY DATA

 COLLECTOR: J. MORITZ, J. VERLINDEN

 AREA: ATLIN, B.C.

 DATE: JULY 23 1971

 PROJECT: 62

 LOCATION REF.: MT. WEIR

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
J1588	LL4 2E	✓	MOUNTAINOUS	TILLS FINES	B 6"	BROWN	M	ORGANIC LOW GRAVEL MOD. SANDY.					
J1589	LL4 4E	✓	"	"	B 5"	"	M-C	"					
J1590	LL8 6E	✓	"	"	B 7"	GREY	M	NO ORGANIC.					
J1591	LL8 4E	✓	"	"	B 7"	BROWN	F-M	ORGANIC MOD. STEEP SLOPE.					
J1592	LL8 2E	✓	"	"	B 4"	TAN	VERY FINE	"					
J1593	LO 2E	✓	"	"	B 10"	BROWN	M-C	ORGANIC, SOME GRAVEL - SAND					
J1594	LO 10E	✓	"	"	B 7"	LIGHT BROWN	M-C	MUCH GRAVEL SANDY.					
J1595	LO 3E	✓	"	"	B 8"	BROWN	M-C	"					
J1596	LO 6E	✓	"	"	B 7"	BLACK	C	LITTLE ORGANIC. SILICATE FRAGMENTS SOME ORGANIC.					
J1597	LO 4E	✓	"	"	B 6"	BROWN	F-M	MUCH ORGANIC SANDY					
J1598	LO 2E	✓	"	"	B 6"	LIGHT BROWN	F	VERY SANDY SOME ORGANIC.					
J1599	LO 2W	✓	"	"	B 7"	BROWN	F-M	ORGANIC SOME SAND LITTLE GRAVEL					
J1600	LO 4W	✓	"	"	B 10"	GREY	F-M	ORGANIC SOME SAND					
J1601	LO 6W	✓	"	"	B 5"	"	F-M	LITTLE GRAVEL ORGANIC SOME SAND					
J1602	LO 8W	✓	"	"	B 7"	"	F	LITTLE GRAVEL					

CANADIAN JOHNSMANVILLE Co. Ltd.

GEOCHEMICAL SOIL SURVEY DATA

 COLLECTOR: I. MORITZ, L. VERLINDEN

 AREA: ADLIN B.C.

 DATE: JULY 23 1971

 PROJECT: 62

 LOCATION REF.: MT. WEIR

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS			
J1603	L0 10W	✓	MOUNTAINOUS	TALLS FINE	B 8"	TAN	M-F	VERY SANDY, LITTLE ORGANIC				
J1604	L0 12W	✓	"	"	B 6"	GREY	F	SANDY GRAVEL ORGANIC				
J1605	L4 12W	✓	"	"	B 7"	TAN	M	VERY SANDY ORGANIC				
J1606	L4 10W	✓	"	"	B 11"	"	M	"				
J1607	L4 8W	✓	"	"	B 8"	GREY	F	"				
J1608	L4 6W	✓	"	"	B 6"	BROWN	M-F	ORGANIC - NO GRAVEL SILTY				
J1609	L4 4W	✓	"	"	B 4"	"	M	SAND - SOME ORGANIC				
J1610	L4 2W	✓	"	"	B 6"	BROWN	M-C	SANDY LITTLE ORGANIC, GRAVEL				
J1611	L4 2E	✓	"	"	B 8"	BROWN	M	SANDY, SOME ORGANIC SILTY				
J1612	L4 4E	✓	"	"	B 7"	BROWN	M	VERY SANDY, LITTLE GRAVEL, NO ORGANIC				
J1613	L4 6E	✓	"	"	B 9"	BROWN	M-C	GRAVEL, ORGANIC SOME SAND				
J1614	L4 8E	✓	"	"	B 6"	"	M	"				
J1615	L4 10E	✓	"	"	B 5"	BROWN	M	SANDY, SOME ORGANIC, NO GRAVEL				
J1616	L4 12E	✓	"	"	B 7"	"	M	VERY SANDY, SOME GRAVEL				
J1617	L2 10E	✓	"	"	B 5"	BROWN	M-C	MUCH GRAVEL SANDY				

CANADIAN JOHN MANVILLE Co. Ltd.

GEOCHEMICAL SOIL SURVEY DATA

 COLLECTOR: J. MORITZ, L. VERLINDEN

 AREA: ATLIN, B.C.

 DATE: 23rd July 1971

 PROJECT: 62

 LOCATION REF.: MT. WEIR

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS					
J1618	L8	8E	↙	MOONCAINOUS	TALUS FINES	B 5"	BROWN	M	Sandy, Organic + mod. gravel					
J1622	L8	6E	↘	"	"	B 7"	"	M-C	"					
J1623	L8	4E	↘	"	"	B 6"	"	M	Silty, Organic moderate some gravel					
J1624	L8	2E	↘	"	"	B 8"	"	"	"					
J1625	L8	2W	↘	"	"	B 6"	DARK BROWN	"	Talus. " ubiquitous					
J1626	L8	4W	↘	"	"	B 6"	DARK BROWN	F-M	Sandy, Organic + gravel low					
J1627	L8	6W	↘	"	"	B 7"	BROWN GREY	F-M	"					
J1628	L8	8W	↘	"	"	B 10"	Light BROWN	F-M	Very Fine Sand					
J1629	L8	10W	↘	"	"	B 8"	GREY BROWN	F-M	Some gravel organic low					
J1630	L8	12W	↘	"	"	B 7"	Tan	F	Sandy, No gravel Organic low					
J1631	L12	12W	↘	"	"	B 6"	BROWN DARK	F-M	Mostly Organic in Talus					
J1632	L12	10W	↘	"	"	B 7"	GREY BROWN	M	Silty, some gravel Organic					
J1633	L12	8W	↘	"	"	B 5"	Brown	M	Organic high, some gravel + sand					
J1634	L12	6W	↘	"	"	B 6"	Light BROWN	M-C	much gravel Low organic					
J1635	L12	4W	↘	"	"	B 7"	Brown	M	Silty, Organic + gravel moderate					

CANADIAN JOHN MANVILLE Co. Ltd.

GEOCHEMICAL SOIL SURVEY DATA

 COLLECTOR: I. Moritz, L. Verlinden

 AREA: Atlin, B.C.

 DATE: 23rd July 1971

 PROJECT: 62

 LOCATION REF.: Mc. Weir

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS			
J1636	L12 2W	↓	Mountaneous	Talus Fines	B 7"	Brown	F-M	Sandy, Organic Med No Gravel				
J1637	L12 2E	↓	"	"	B 6"	"	M	" some gravel				
J1638	L12 4E	↓	"	"	B 7"	"	F-M	Silty, Low organic No gravel				
J1639	L12 6E	↓	"	"	B 4"	"	"	"				
J1640	L12 8E	↓	"	"	B 6"	Light Brown	M	very sandy, with some gravel + organic				
J1641	L16 6E	↓	"	"	B 7"	Brown	M	"				
J1642	L16 4E	↓	"	"	B 5"	Tan	F-M	"				
J1643	L16 2E	↓	"	"	B 6"	Brown	"	"				
J1644	L16 2W	↓	"	"	B 6"	Brown	F-M	Silty, Organic High old seep				
J1645	L16 4W	↓	"	"	B 5"	"	M	Sandy, some gravel Organic High				
J1646	L16 6W	↓	"	"	B 5"	"	F-M	" Organic med.				
J1647	L16 7+75W	↓	"	"	B 8"	"	"	Talus at 2W same as above				
J1648	L20 8W	↓	"	"	B 7"	Grey Brown	M	sandy, some organic no gravel				
J1649	L20 6W	↓	"	"	B 8"	Brown	M	Silty, some organic				
J1650	L20 4W	↓	"	"	B 4"	Grey	C	much gravel, sandy				

CANADIAN JOHN MANVILLE Co. Ltd.

GEOCHEMICAL SOIL SURVEY DATA

 COLLECTOR: I. MORITZ, L. VERLINDEN

 AREA: ATLIN, B.C.

 DATE: 25th July 1971

 PROJECT: 62

 LOCATION REF.: MC WEIR

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS					
J1651	L20	2W	↘	Mountaneous	Talus Fines	B 7"	Brown	M	Sandy, Mod. organic, Low gravel.					
J1652	L20	2E	↘	"	"	B 6"	"	"	silty + sandy some organic					
J1653	L20	4E	↘	"	"	B 7"	"	"	"					
J1654	L24	2E	→	"	"	B 6"	"	"	"					
J1655	L24	4E	↙	"	"	B 6"	"	M	"					
J1656	L36	2W	↘	"	"	B 6"	"	"	"					
J1657	L40	4W	↘	"	"	B 6"	"	"	"					
J1658	L40	2W	↘	"	"	B 6"	"	"	"					
J1659	L40	2E	↙	"	"	B 4"	Brown	M-C	Sandy, gravel mod., Low organic					
J1660	L44	4E	↙	"	"	B 6"	"	M	" silty					
J1661	L44	2E	↙	"	"	B 5"	"	"	Organic mod., No "A" Horizon					
J1662	L44	2W	↘	"	"	B 5"	"	"	Sandy + some organic					
J1663	L48	2W	↘	"	"	B 5"	"	"	" + some gravel.					
J1664	L48	2E	↙	"	"	B 5"	"	"	"					
J1665	L48	4E	↙	"	"	B 5"	Light Brown	"	gravel, sandy + some organic					

CANADIAN JOHN MANVILLE Co. Ltd.

GEOCHEMICAL SOIL SURVEY DATA

 COLLECTOR: J. MORITZ, L. VERLINDEN

 AREA: ATLIN, BC

 DATE: 25th July 1971

 PROJECT: 62

 LOCATION REF.: MT. WEIR

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS					
J 1666	L52	4E	↙	Mountainous	Talus Fines	B 5"	Brown	M	no gravel old seep?					
J 1667	L52	2E	↙	"	"	B 5"	"	M-C	mod. gravel, some organic					
J 1668	L52	2W	↘	"	"	B 5"	"	"	low gravel, silty organic					
J 1669	L56	2E	↙	"	"	B 6"	Tan	F-C	sandy, some gravel in Talus. Scree					
J 1670	L56	2W	↙	"	"	B 5"	Brown	F-M	" + some organic					
J 1671	L56	4W	↙	"	"	B 2"	"	M	some organic some gravel + silty					
J 1672	L56	6W	↙	"	"	B 8"	"	F	silty, organic					
J 1673	L60	10W	↙	"	"	B 7"	"	M	silty, organic gravel					
J 1674	L80	8W	↙	"	"	B 5"	Grey	M-C	sandy, much gravel some organic					
J 1675	L60	6W	↘	"	"	B 6"	Brown	"	" organic + silty					
J 1676	L60	4W	↙	"	"	B 7"	"	M	organic, silty					
J 1677	L60	2W	↘	"	"	B 6"	Light Brown	F-M	some gravel					
J 1678	L60	2E	↙	"	"	B 8"	"	M	sandy, some gravel no 'A' Horizon					

CANADIAN JOHNS-MANVILLE Co. Ltd.

GEOCHEMICAL SOIL SURVEY DATA

 COLLECTOR: J. MORITZ T. HANSEN

 AREA: ATLIN B.C.

 DATE: AUG. 11 1991

 PROJECT: 6-2

 LOCATION REF.: MT. WEIR

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
J1700	B1 0+00	↙	MOUNTAINOUS	TALLS FINES	B 4"	BROWN	F-C	SANDY SLIGHT ORGANIC					
J1701	B1 2+00	↙	"	"	B 2"	"	F-M	"					
J1702	B1 4+00	↙	"	"	"	"	M-C	COARSE SAND-					
J1703	B1 6+00	↙	"	"	"	"	F-C	SANDY SOME FINE ROOTS					
J1704	B1 8+00	↙	"	"	"	"	F-M	FINE SAND					
J1705	B1 10+00	↙	"	"	"	"	"	"					
J1706	B1 12+00	↙	"	"	"	"	"	"					
J1707	B1 14+00	↙	"	"	"	"	"	"					
J1708	B1 16+00	↙	"	"	B 4"	"	C	MANY SMALL GRAVEL CHIPS					
J1709	B1 18+00	↙	"	"	"	DARK BROWN	C	"					
J1710	B1 20+00	↙	"	"	"	"	C	MOSTLY GRAVEL					
J1711	B1 22+00	↙	"	"	"	"	M-C	"					
J1712	B1 24+00	↙	"	"	"	TAN	"	SANDY SOME GRAVEL					
J1713	B1 26+00	↙	"	"	B 2"	"	F	NO "A" HORIZON MOSTLY SAND					
J1714	B1 28+00	↙	"	"	"	"	F-M	"					

CANADIAN JOHNSMANVILLE Co. Ltd.

GEOCHEMICAL SOIL SURVEY DATA

 COLLECTOR: T. MORITZ, T. HANSEN

 AREA: ATLH B.C.

 DATE: AUG. 11 1971

 PROJECT: 17

 LOCATION REF.: MT. WEIR

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
J1715	BL 30+00	→	MOUNTAINGLS	TALLS FILLES	B 4"	DARK BROWN	F	ORGANIC HIGH					
J1716	BL 32+00	✓	"	"	B 6"	"	"	" MOD.					
J1717	BL 34+00	✓	"	"	B 4"	"	F-C	ORG. MOD. SANDY, SOME GRAVEL					
J1718	BL 36+00	✓	"	"	"	"	"	ORG. MOD. NO GRAVEL					
J1719	BL 38+00	✓	"	"	"	"	F	ORG HIGH NO GRAVEL					
J1720	BL 40+00	✓	"	"	"	"	M	SANDY					
J1721	BL 42+00	✓	"	"	B 2"	BROWN	F	ORGANIC MOD. SOME GRAVEL					
J1722	BL 44+00	✓	"	"	"	"	F-C	"					
J1723	BL 46+00	✓	"	"	"	"	F	ADJACENT TO OLD CREEK BED					
J1724	BL 48+00	✓	"	"	"	DARK BROWN	F	ORG. MOD. NO GRAVEL					
J1725	L48 2W	✓	"	"	"	"	F-M	SANDY ORG MOD.					
J1726	L48 4W	✓	"	"	B 3"	BROWN	F-M	VERY SANDY !!! SANDY					
J1727	L48 6W	✓	"	"	"	"	M-C	SOME GRAVEL					
J1728	L48 8W	✓	"	"	"	"	F	SANDY					
J1729	L48 10W	✓	"	"	"	"	M-C	"					

CANADIAN JOHN MANVILLE Co. Ltd.

GEOCHEMICAL SOIL SURVEY DATA

 COLLECTOR: T. MORITZ, T. HANSEN

 AREA: FITLIX B.C.

 DATE: AUG 11 1971

 PROJECT: 67

 LOCATION REF.: MT. WEIR-

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
J1730	1411 12W	←	MOUNTAINOUS	TALLS FINES	B 3"	BROWN	F-M	SANDY					
J1731	1411 10W	←	"	"	"	"	"	"					
J1732	1411 8W	←	"	"	"	"	"	"					
J1733	1411 6W	←	"	"	"	"	F	"					
J1734	1411 4W	←	"	"	B 2" TAN	"	M	SOME GRAVEL NO ORGANIC					
J1735	1411 2W	←	"	"	"	"	M	"					
J1736	1411 2E	←	"	"	"	DK. BROWN	M-C	"					
J1737	1411 4E	←	"	"	"	"	"	"					
J1738	1411 4E	←	"	"	"	"	"	"					
J1739	1411 2E	←	"	"	"	"	"	"					
J1740	1410 2E	←	"	"	"	"	F-M	SANDY, ORG. MOD. NO GRAVEL					
J1741	1410 2W	←	"	"	"	BROWN DARK	M	NO "A" HORIZON SMALL GRAVEL					
J1742	1410 4W	←	"	"	B 5"	BROWN	F	ORGANIC HIGH NO GRAVEL					
J1743	1410 6W	←	"	"	B 4"	"	F	"					
J1744	1410 8W	←	"	"	B 5"	"	F	"					

CANADIAN JOHN MANVILLE Co. Ltd.

GEOCHEMICAL SOIL SURVEY DATA

 COLLECTOR: J. MORITZ, T. HANSEN.

 AREA: ATLIN B.C.

 DATE: Aug. 11, 1971

 PROJECT: 62

 LOCATION REF.: MT WEIR

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
J1745	L40 10W	←	MOUNTAINOUS	TALLS FINE	B 3"	TAN	M-C	SANDY - NO "A" HORIZON MOSTLY GRAVEL					
J1746	L31 10W	←	"	"	B 4"	"	"	"					
J1747	L31 2W	←	"	"	B 2"	LIGHT BROWN	"	NEAR STREAM SOME ORGANIC					
J1748	L31 6W	↙	"	"	"	"	F-M	NEAR STREAM NO ORGANIC					
J1749	L36 4W	←	"	"	"	"	M-C	STILL NEAR STREAM ORGANIC MOD.					
J1750	L36 2W	←	"	"	B 2"	DARK BROWN	"	SOME GRAVEL					
J1751	L36 2E	←	"	"	B 3"	LIGHT BROWN	"	"					
J1752	L37 2E	↙	"	"	"	"	"	NO ORGANIC SANDY GRAVEL LOW					
J1753	L82 2W	←	"	"	"	DARK BROWN	F-M	ORGANIC HIGH NO GRAVEL					
J1754	L32 4W	←	"	"	B 4"	"	"	NEAR STREAM ORGANIC HIGH					
J1755	L32 6W	←	"	"	B 6"	"	"	NO GRAVEL					
J1756	L32 8W	←	"	"	"	"	"	"					
J1757	L29 2W	←	"	"	B 3"	BROWN	F	"					
J1758	L32 6W	←	"	"	"	"	M	"					
J1759	L28 4W	↙	"	"	"	"	F	ORGANIC MOD. NEAR STREAM					

CANADIAN JOHNSMANVILLE Co. Ltd.

GEOCHEMICAL SOIL SURVEY DATA

 COLLECTOR: J. MORITZ

 AREA: ATLW B.C.

 DATE: AUG 12 1971

 PROJECT: 62

 LOCATION REF.: MT. WEIR

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
J1760	128 2W	←	MOUNTAINOUS	TALKS FINES	B 3"	BROWN	M-C	MUCH GRAVEL SLUDGY ORG LOW					
J1761	124 2W	←	"	"	"	"	"	"					
J1762	124 4W	←	"	"	B 2"	"	"	"					
J1763	124 6W	←	"	"	"	"	"	GRAVEL HIGH - NO "A" HORIZON - IN SECT.					
J1764	124 2W	←	"	"	"	DARK BROWN	F-M	MUCH ORGANIC					
J1765	170 8W	←	"	"	"	BROWN	M	SOME ORG MUCH GRAVEL					
J1766	170 4W	←	"	"	"	"	M	ORG MOD + GRAVEL SLIGHTLY SLUDGY					
J1767	170 4W	←	"	"	"	"	C	MOSTLY GRAVEL					
J1768	170 2W	←	"	"	"	"	C	"					
J1769	128 2E	←	"	"	B 6"	"	M-C	ORG MOD SOME GRAVEL					
J1770	116 2W	←	"	"	B 4"	"	"	NO ORG. MUCH GRAVEL					
J1771	116 4W	←	"	"	"	"	F	ORGANIC HIGH OVER STREAM					
J1772	116 6W	←	"	"	B 2"	"	M	NEAR STREAM MUCH GRAVEL					
J1773	116 8W	←	"	"	B 5"	"	F	GRASSY SPOT ADV. TO STREAM					
J1774	117 8W	←	"	"	"	"	C	SANDY MUCH GRAVEL					

CANADIAN JOHNS MANVILLE Co. Ltd.

GEOCHEMICAL SOIL SURVEY DATA

 COLLECTOR: J MORITZ

 AREA: ATLIN B.C.

 DATE: 13 AUG. 1971

 PROJECT: 62

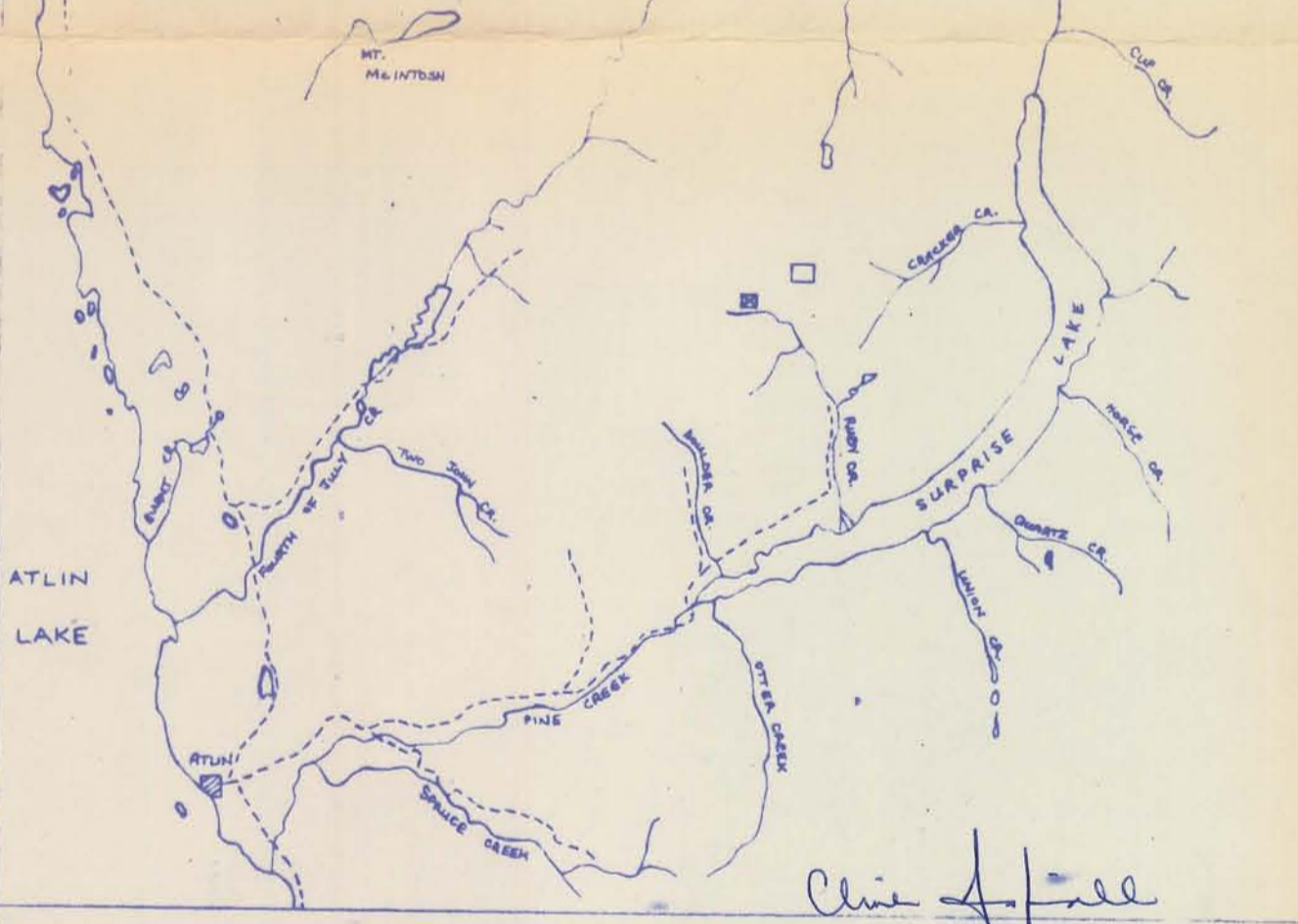
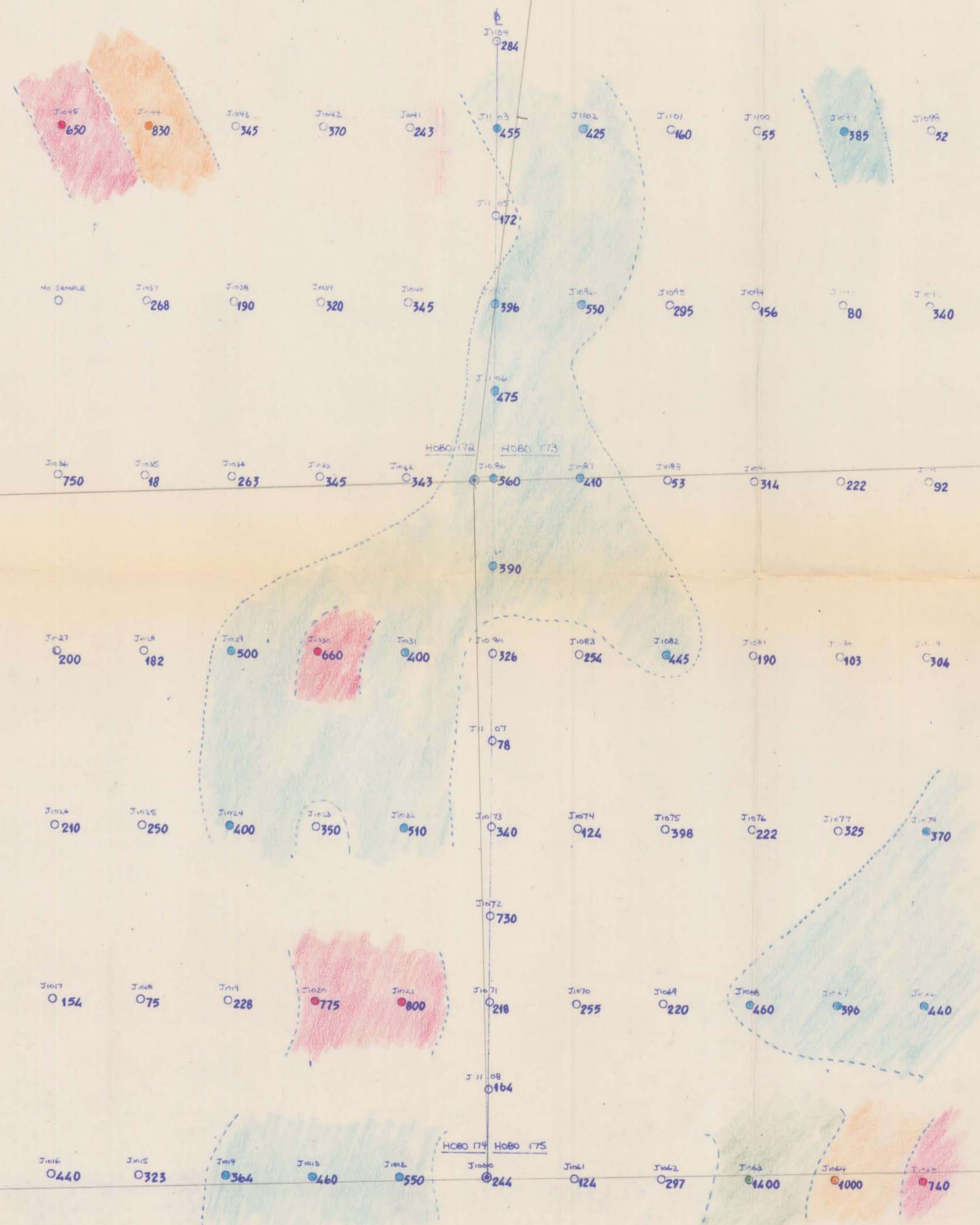
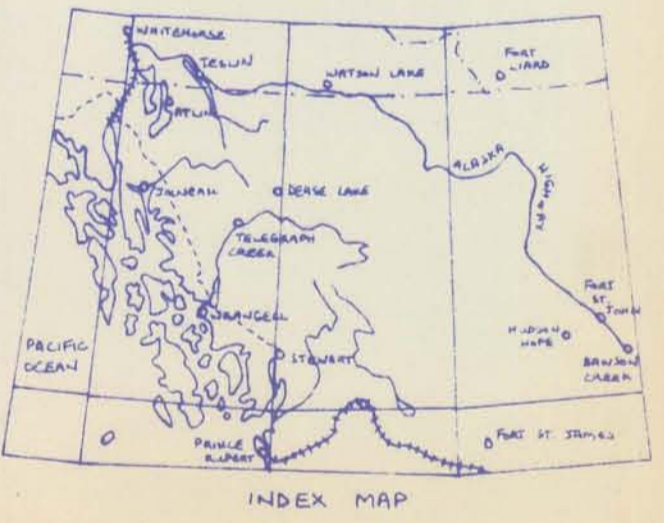
 LOCATION REF.: MT WEIR

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
J1775	L12 6W	←	MOUNTAINOUS	TALLS FINES	B 2'	GREY	M	SAND FIRM SEEP					
J1776	L12 4W	←	"	"	B 3"	"	M	SAND + GRAVEL NEAR SILLON					
J1777	L12 2W	←	"	"	B 6"	BROWN	M	ORG. MOD - SANDY SOME GRAVEL					
J1778	L12 2E	←	"	"	B 4"	"	M	"					
J1779	L8 4E	✓	"	"	B 8"	"	F-M	A GOOD SAMPLE					
J1780	L8 2E	✓	"	"	"	"	F-M	"					
J1781	L8 2W	←	"	"	B 6"	"	M	SANDY SOME GRAVEL					
J1782	L8 4W	←	"	"	"	"	C	MOSTLY GRAVEL - OLD SEEP					
J1783	L4 2E	←	"	"	"	"	M-C	SOME GRAVEL ORGANIC SANDY					
J1784	L4 4E	←	"	"	"	"	M-C	"					
J1785	L4 6E	←	"	"	"	"	M-C	"					
AT 55	✓ ALLAN'S FIELD NOTES		"	"	B 6	YELLOW BROWN	M-C						

SYMBOLS:
 ○ SOIL SAMPLE LOCATION AND NUMBER
 ⊙ CLAIM POST
 --- STREAM
 - - - ROAD
 --- CLAIM BOUNDARIES

Ni 83 SOIL SAMPLES
 X 357 ppm S: 222 ppm

VALUE	INTERPRETATION	SYMBOL
0 - 357	NEGATIVE	○
358 - 579	POSSIBLY ANOMALOUS	●
580 - 801	PROBABLY ANOMALOUS	●
802 - 1023	ANOMALOUS	●
1024 +	STRONGLY ANOM	●

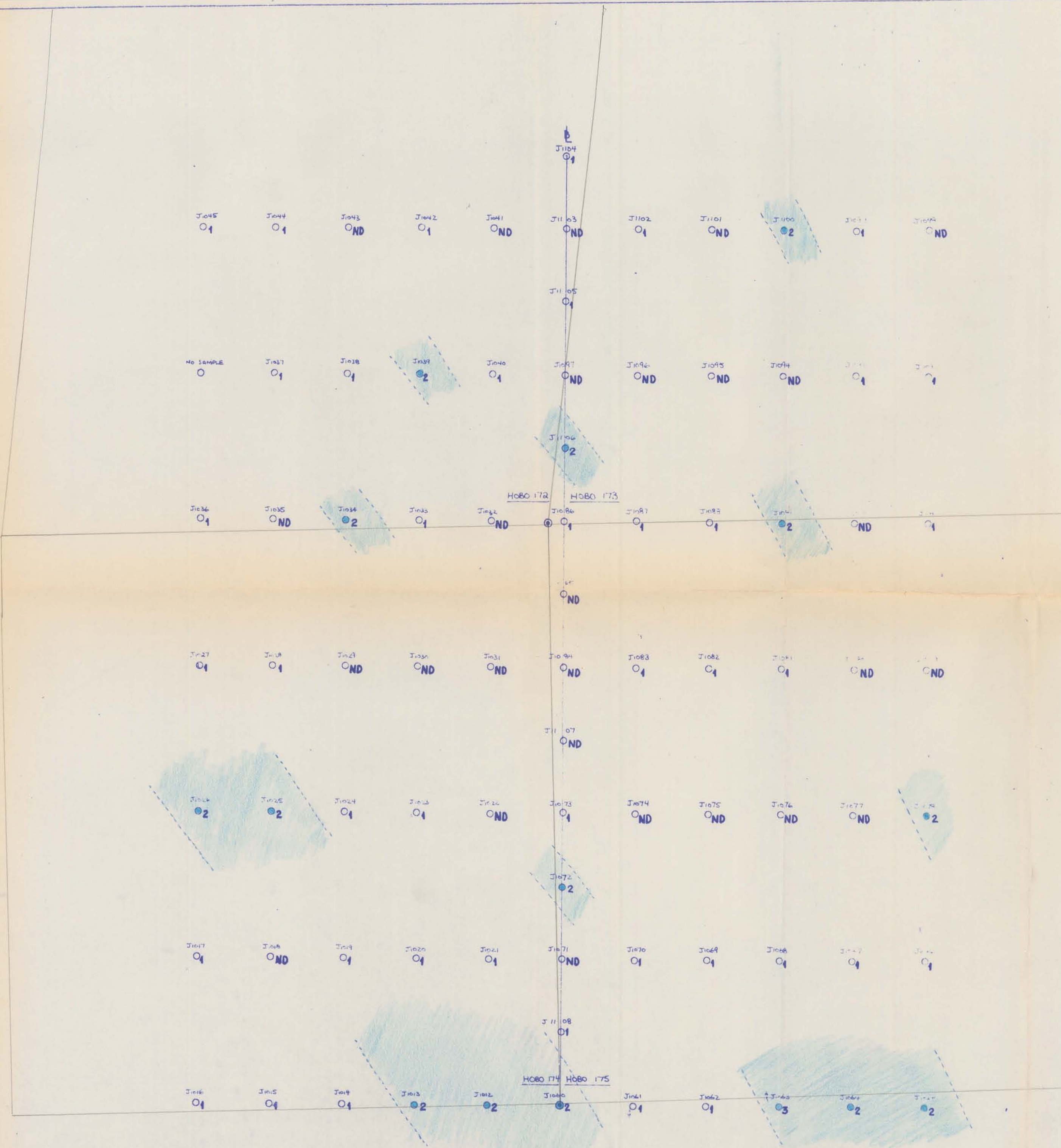


LOCATION MAP SCALE: 1 IN. = 4 MILES
 ⊠ - ADAMAC CAMP □ - SAMPLE AREA

CANADIAN JOHNS-MANVILLE CO. LTD.
 ATLIN, B.C.

GEOCHEMICAL SOIL SAMPLE - Ni (ppm)
 HOB0 MINERAL CLAIMS 172, 173, 174, 175.
 ATLIN MD., BRITISH COLUMBIA.
 BONCO 41-49

SCALE: 1" = 200' DATE: 24 JUNE, 1971 COLLECTOR: P.W. I.M. T.H. APPROVED:



SYMBOLS:

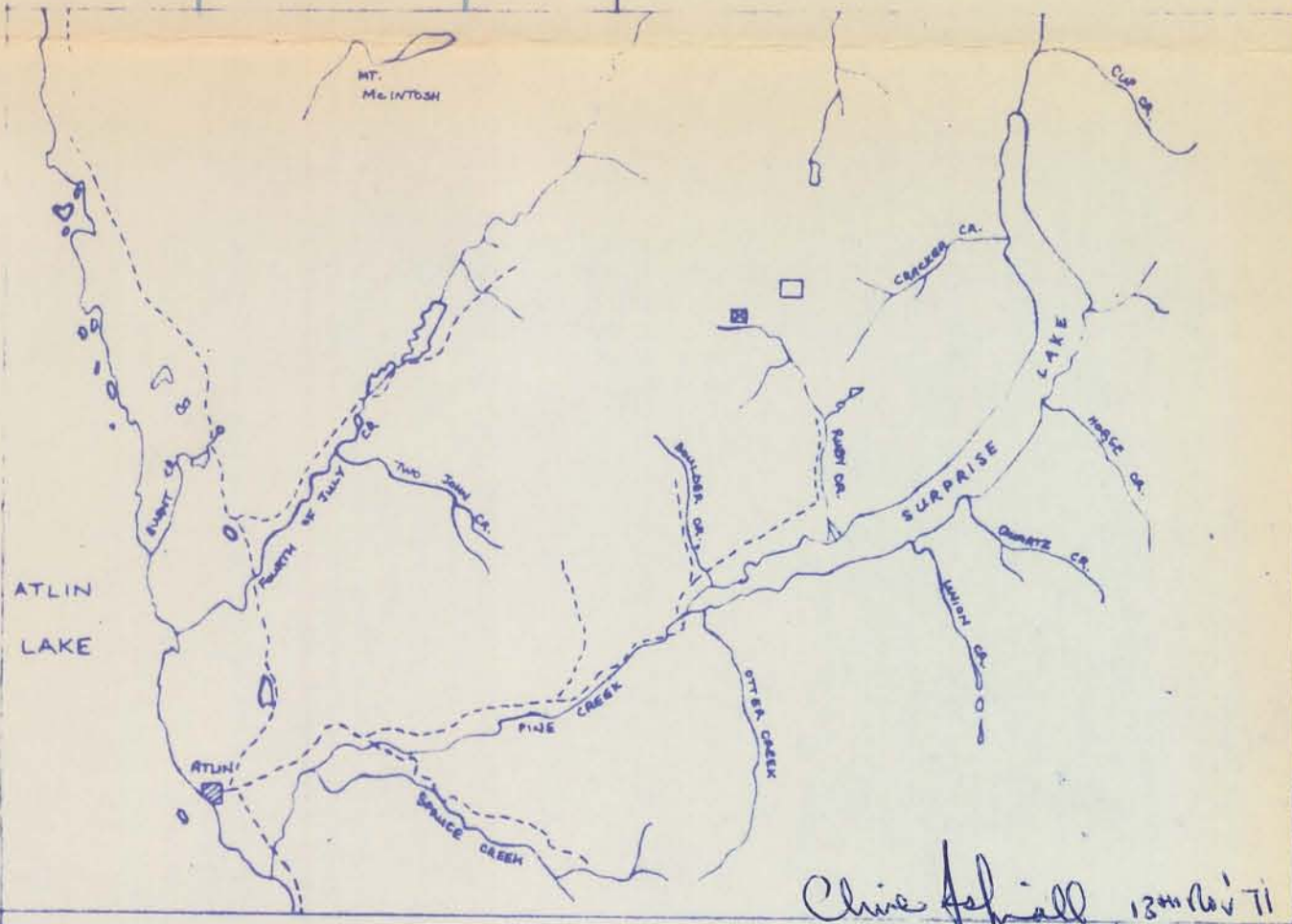
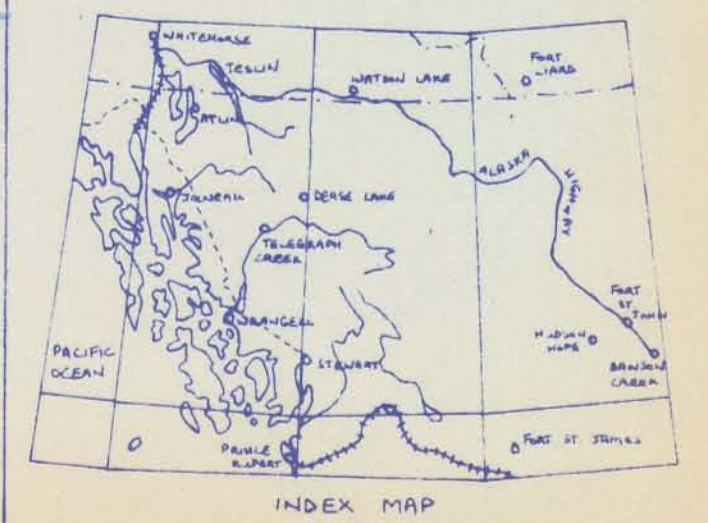
- SOIL SAMPLE LOCATION AND NUMBER
- CLAIM POST
- LOCATION MAP
- STREAM
- ROAD
- CLAIM BOUNDARIES

Department of
 Mines and Petroleum Resources
ASSESSMENT REPORT
 NO. 3425 MAP #4

Mo-83 SOIL SAMPLES

$\bar{x} = 1 \text{ ppm}$ $S = 1 \text{ ppm}$

VALUES	INTERPRETATION	SYMBOLS
0-1	NEGATIVE	
2-3	Possibly Anomalous	
4-5	PROBABLY Anomalous	
6-7	Anomalous	
8+	STRONGLY Anom	

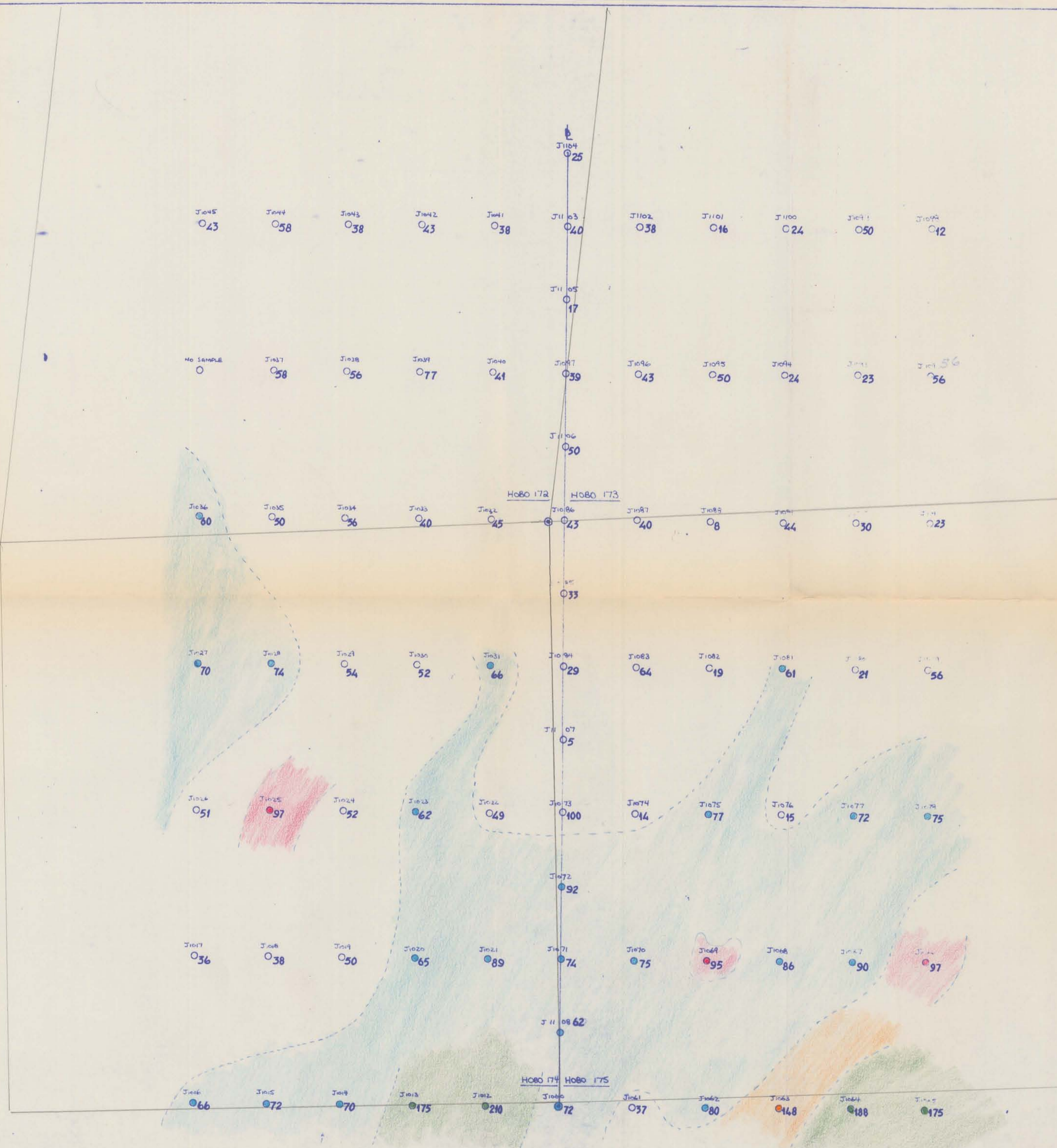


LOCATION MAP SCALE: 1 IN. = 4 MILES

CANADIAN JOHNS-MANVILLE CO. LTD.
 ATLIN, B.C.

GEOCHEMICAL SOIL SAMPLE - Mo (ppm)
 HOB0 MINERAL CLAIMS 172,173,174,175.
 ATLIN MD., BRITISH COLUMBIA.
 BONCO 41-49

SCALE: 1" = 200' DATE: 24 JUNE, 1971 COLLECTOR: J.H. APPROVED:



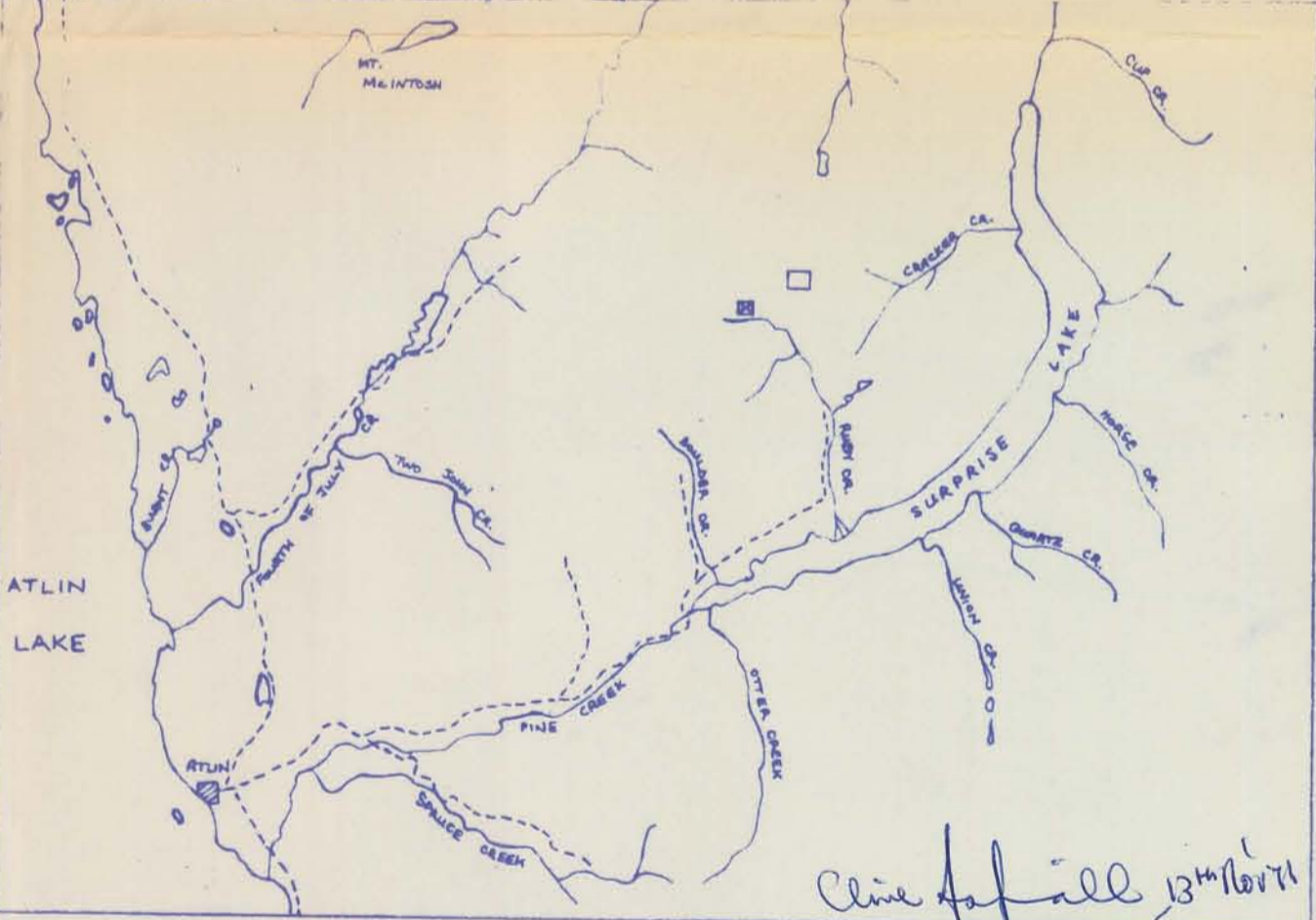
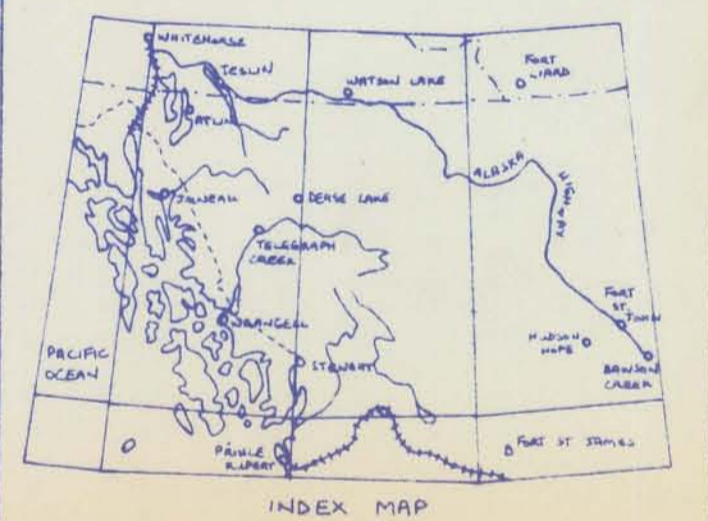
SYMBOLS:

- SOIL SAMPLE LOCATION AND NUMBER
- ⊙ CLAIM POST
- STREAM
- - - ROAD
- Claim Boundaries

Zn - 83 SOIL SAMPLES
 X 59 ppm S: 36 ppm

VALUES	INTERPRETATION	SYMBOLS
0-58	NEGATIVE	○
59-94	Possibly Anomalous	●
95-130	Probably Anomalous	●
131-166	Anomalous	●
167+	STRONGLY ANOM	●

Department of
 Mines and Petroleum Resources
ASSESSMENT REPORT
 NO. 3425 MAP #3

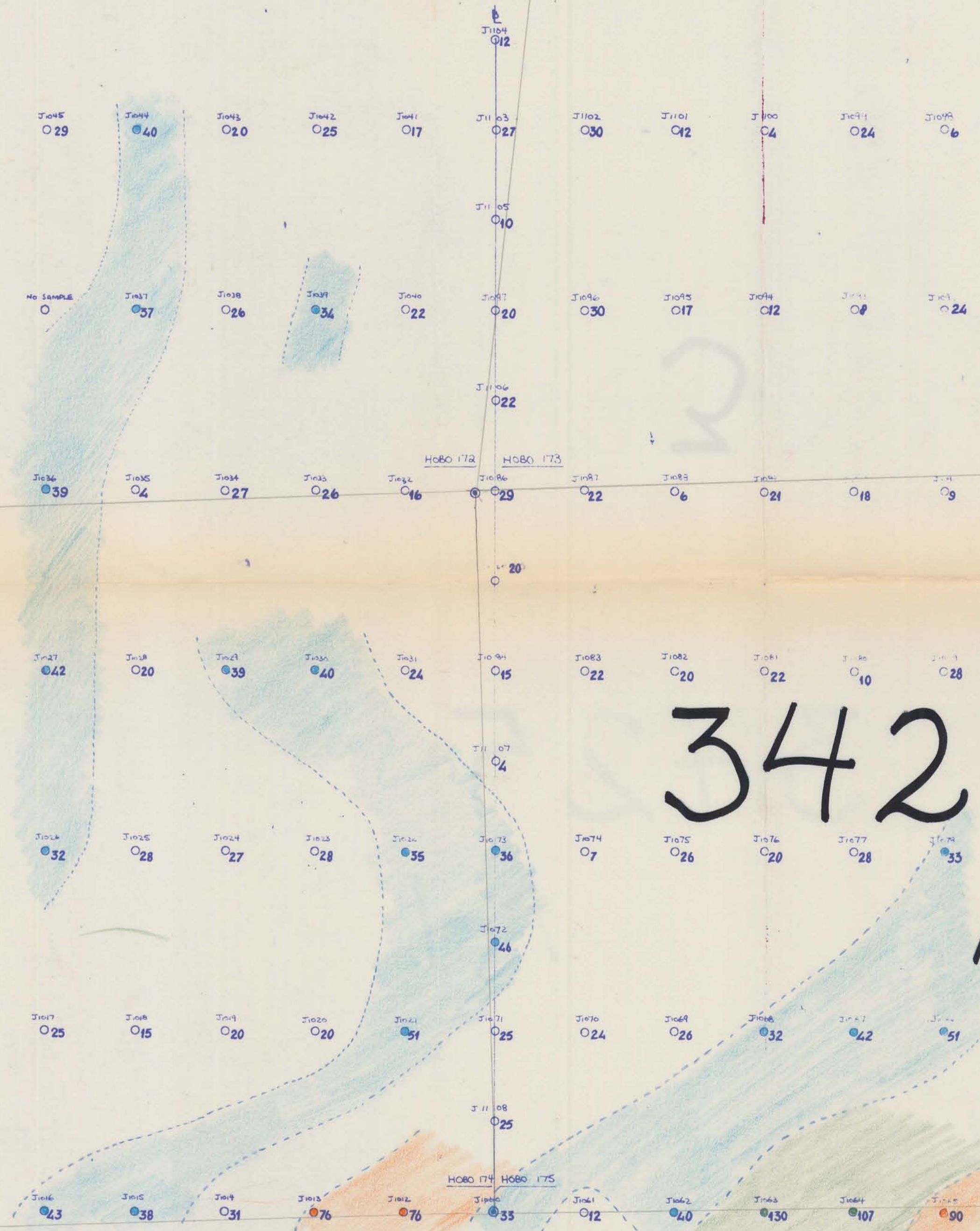


LOCATION MAP SCALE: 1 IN. = 4 MILES

CANADIAN JOHNS-MANVILLE CO. LTD.
 ATLIN, B.C.

GEOCHEMICAL SOIL SAMPLE - Zn (ppm)
 HOBO MINERAL CLAIMS 172,173,174,175.
 ATLIN MD., BRITISH COLUMBIA.
 BONCO 41-49

SCALE: 1" = 200' DATE: 24 JUNE, 1971 COLLECTOR: J.M. T.H. APPROVED:



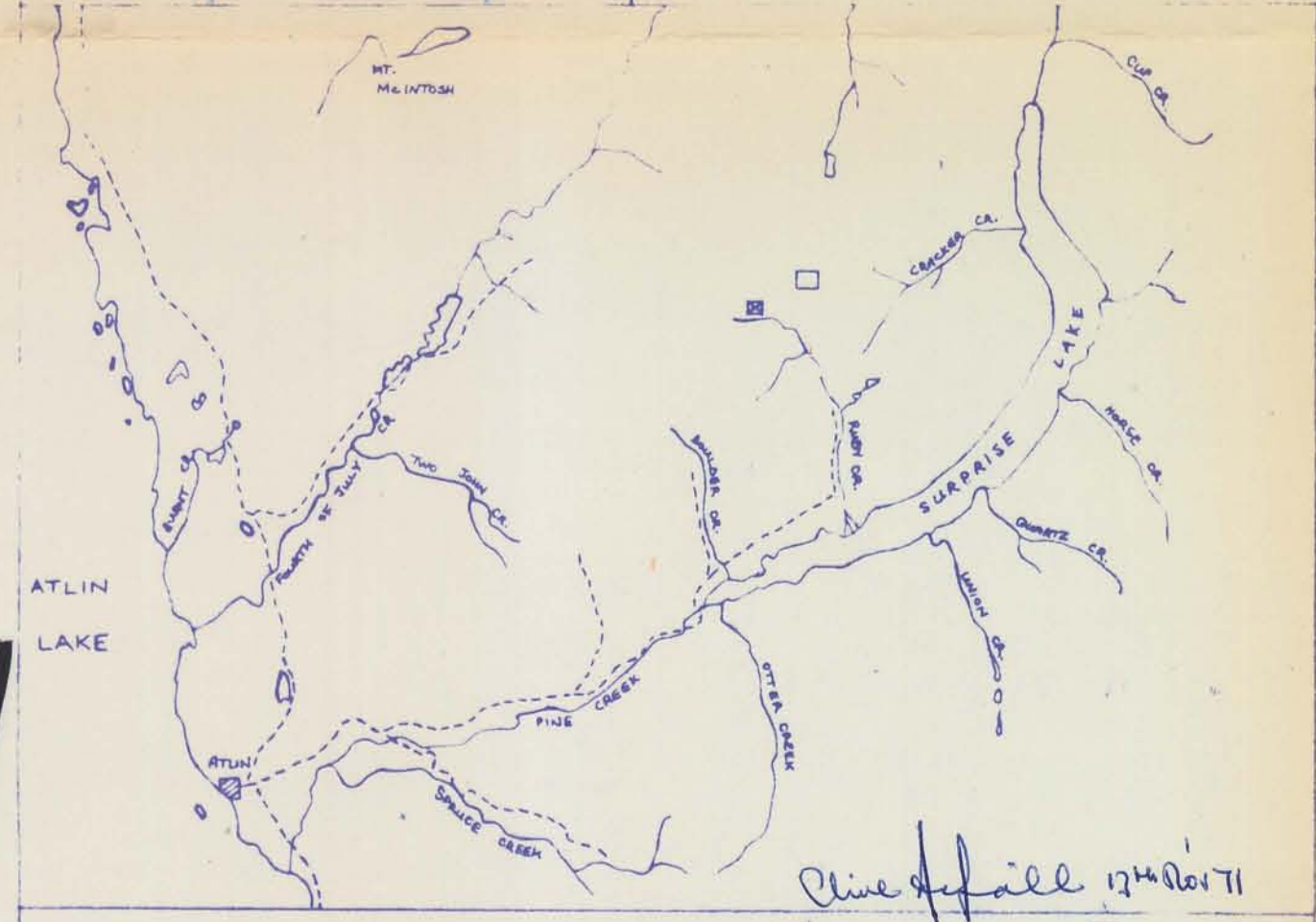
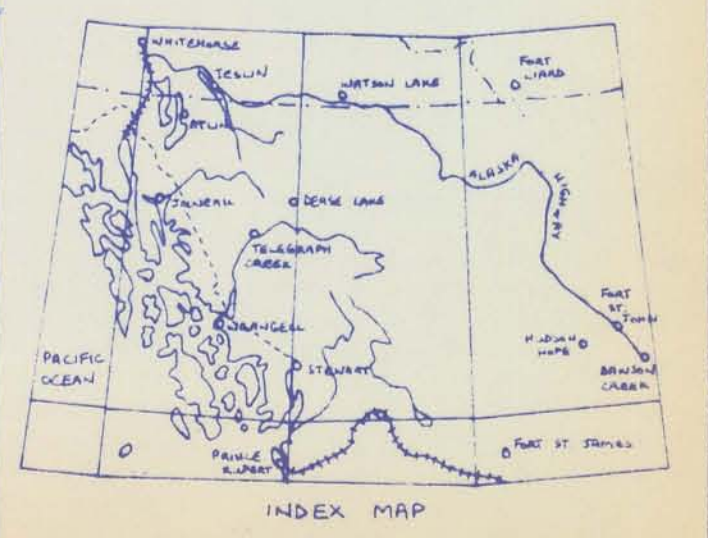
SYMBOLS:

- SOIL SAMPLE LOCATION AND NUMBER
- ⊙ CLAIM POST
- STREAM
- ROAD
- CLAIM BOUNDARIES

Cu - 83 SOIL SAMPLES
 x̄ 31ppm S: 20ppm

VALUES	INTERPRETATION	SYMBOLS
0-31	NEGATIVE	○
32-51	POSSIBLY ANOMALOUS	●
52-71	PROBABLY ANOMALOUS	●
72-91	ANOMALOUS	●
92+	STRONGLY ANOM	●

Department of
 Mines and Petroleum Resources
ASSESSMENT REPORT
 NO. 3425 MAP #1



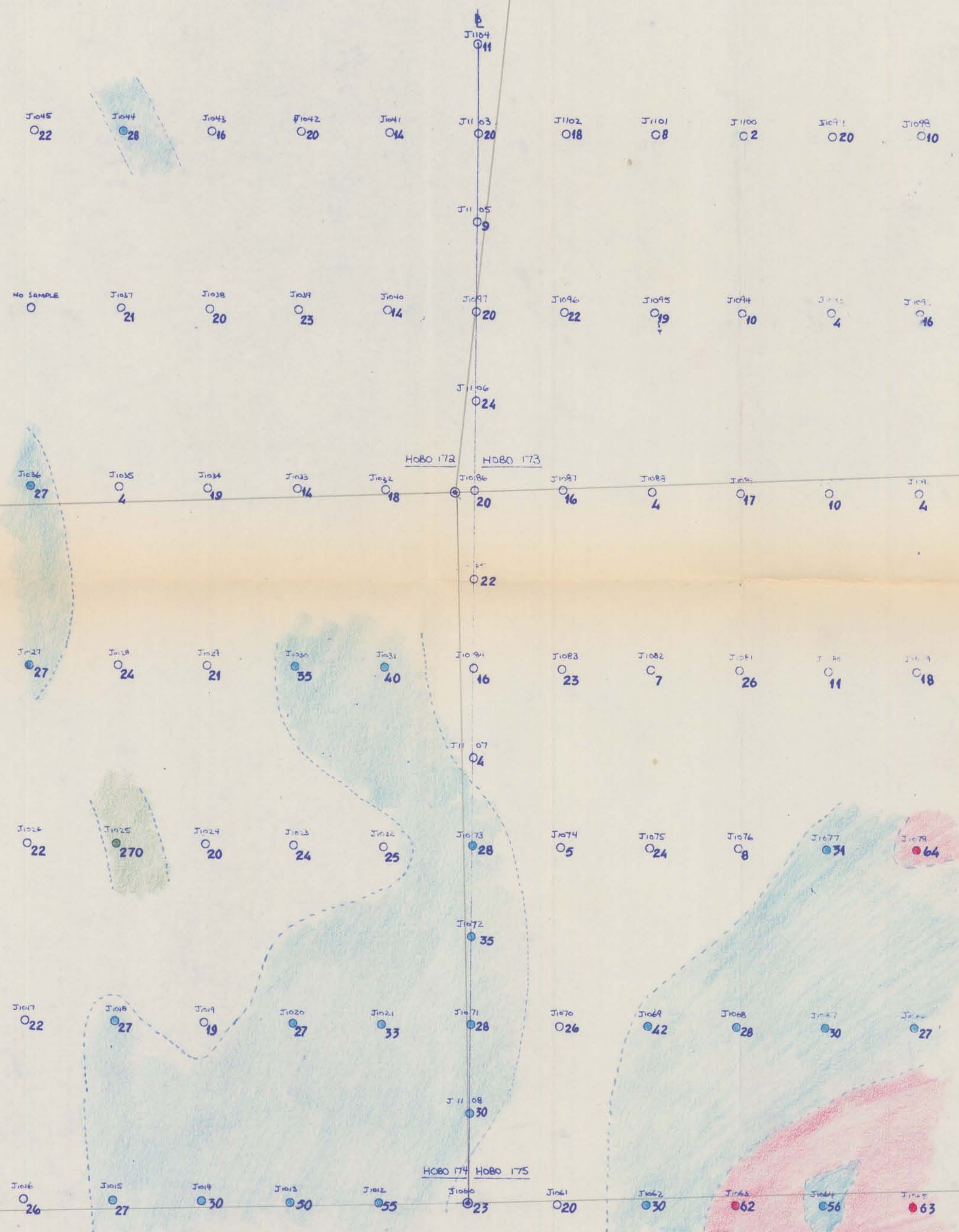
3425
M-1

LOCATION MAP SCALE: 1 IN. = 4 MILES □ - ADAMAC CAMP □ - SAMPLE AREA

CANADIAN JOHNS-MANVILLE CO. LTD.
 ATLIN, B.C.

GEOCHEMICAL SOIL SAMPLE - Cu (ppm)
 HOBO MINERAL CLAIMS 172,173,174,175.
 ATLIN M.D., BRITISH COLUMBIA.
 BONCO 41-49

SCALE: 1" = 200' DATE: 24 JUNE, 1971 COLLECTOR: P.J. T.H. APPROVED:



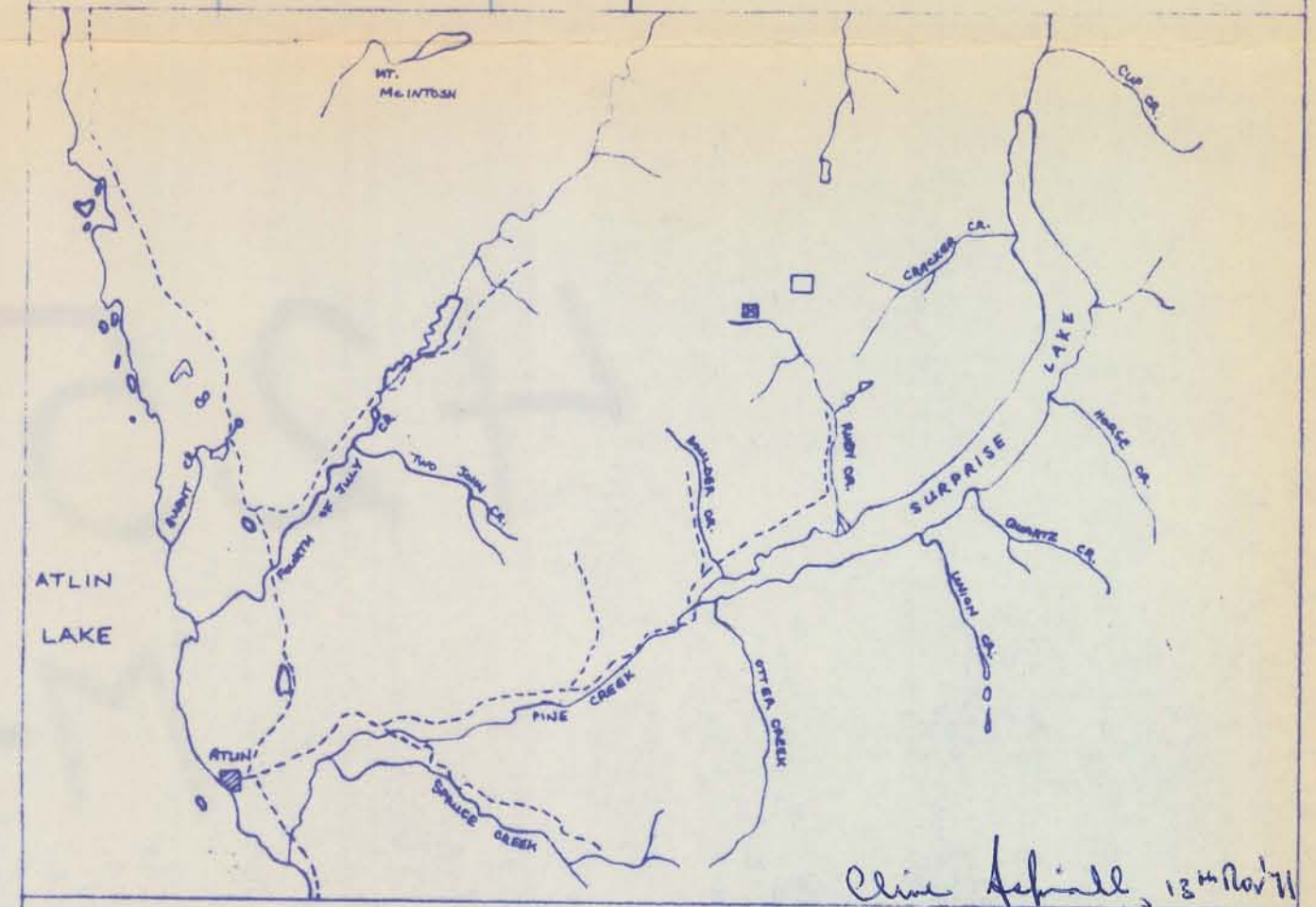
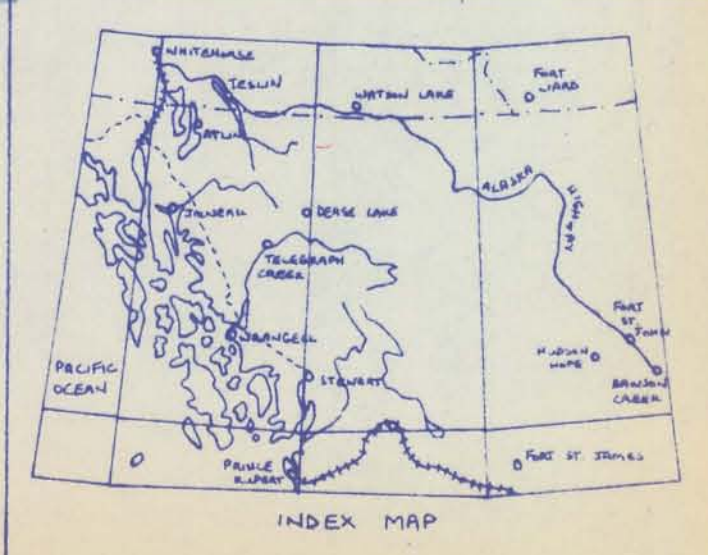
SYMBOLS:

- SOIL SAMPLE LOCATION AND NUMBER
- ⊙ CLAIM POST
- LOCATION MAP
- ~~~~~ STREAM
- - - - ROAD
- _____ CHAIN BOUNDARIES

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 3425 MAP #2

Pb - 83 SOL. SAMPLES
 x 26 ppm S 30 ppm

VALUES	INTERPRETATION	SYMBOLS
0 - 26	NEGATIVE	○
27 - 56	Possibly Anomalous	●
57 - 86	Probably Anomalous	●
87 - 116	Anomalous	●
117 +	STRONGLY ANOM.	●



LOCATION MAP SCALE: 1 IN. = 4 MILES ⊠ - ADANAC CAMP □ - SAMPLE AREA

CANADIAN JOHNS-MANVILLE CO. LTD.
 ATLIN, B.C.

GEOCHEMICAL SOIL SAMPLE - Pb (ppm)
 HOBOKEN MINERAL CLAIMS 172, 173, 174, 175.
 ATLIN MD., BRITISH COLUMBIA.
 BONCO 41-49.

SCALE: 1" = 200' DATE: 24 JUNE, 1971 COLLECTOR: J.M.T.H. APPROVED: