

81-#899, - 9687

GEOCHEMICAL REPORT

on

THE TIDE GROUP

(Tide, Tide 2, Berendon, Berendon 2 claims)

SKEENA MINING DIVISION

NTS 104B/8
56°17'N, 130°05'W

for

NORTHAIR MINES LTD.

by

F.G. HEWETT, P. ENG.

Vancouver, B.C.
Oct. 17, 1981

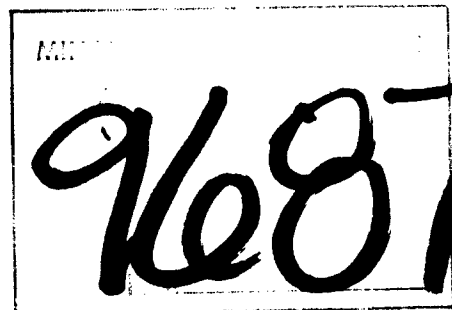


TABLE OF CONTENTS

	<u>PAGE</u>
1. SUMMARY	1
2. INTRODUCTION	1
3. PROPERTY OWNERSHIP	3
4. LOCATION & ACCESS	3
5. PHYSIOGRAPHY & TOPOGRAPHY	3
6. HISTORY	5
7. GEOLOGY	5
8. MINERAL OCCURRENCES	5
9. GEOCHEMICAL SURVEY	7
10. SURVEY RESULTS	7
11. CONCLUSIONS	8
12. RECOMMENDATIONS	8

APPENDICES

APPENDIX I - GEOCHEMICAL DATA

APPENDIX II - COST STATEMENT

APPENDIX III - STATEMENT OF QUALIFICATIONS

ILLUSTRATIONS

FIGURE 1 - Claim Location Map	2
FIGURE 2 - Claim Map	4
FIGURE 3 - Sample Locations	In Pocket
FIGURE 4 - Molybdenum silt Geochem. In Pocket	
FIGURE 5 - Silver silt Geochem.	In Pocket
FIGURE 6 - Gold silt Geochem.	In Pocket
FIGURE 7 - Lead silt Geochem.	In Pocket
FIGURE 8 - Zinc silt Geochem.	In Pocket
FIGURE 9 - Copper silt Geochem.	In Pocket
FIGURE 10 - Gold Values -(Rock)...	In Pocket
FIGURE 11 - Silver Values -(Rock). In Pocket	

1. SUMMARY

The Tide Group of claims were staked in August 1979 and September 1980 for Northair Mines Ltd.

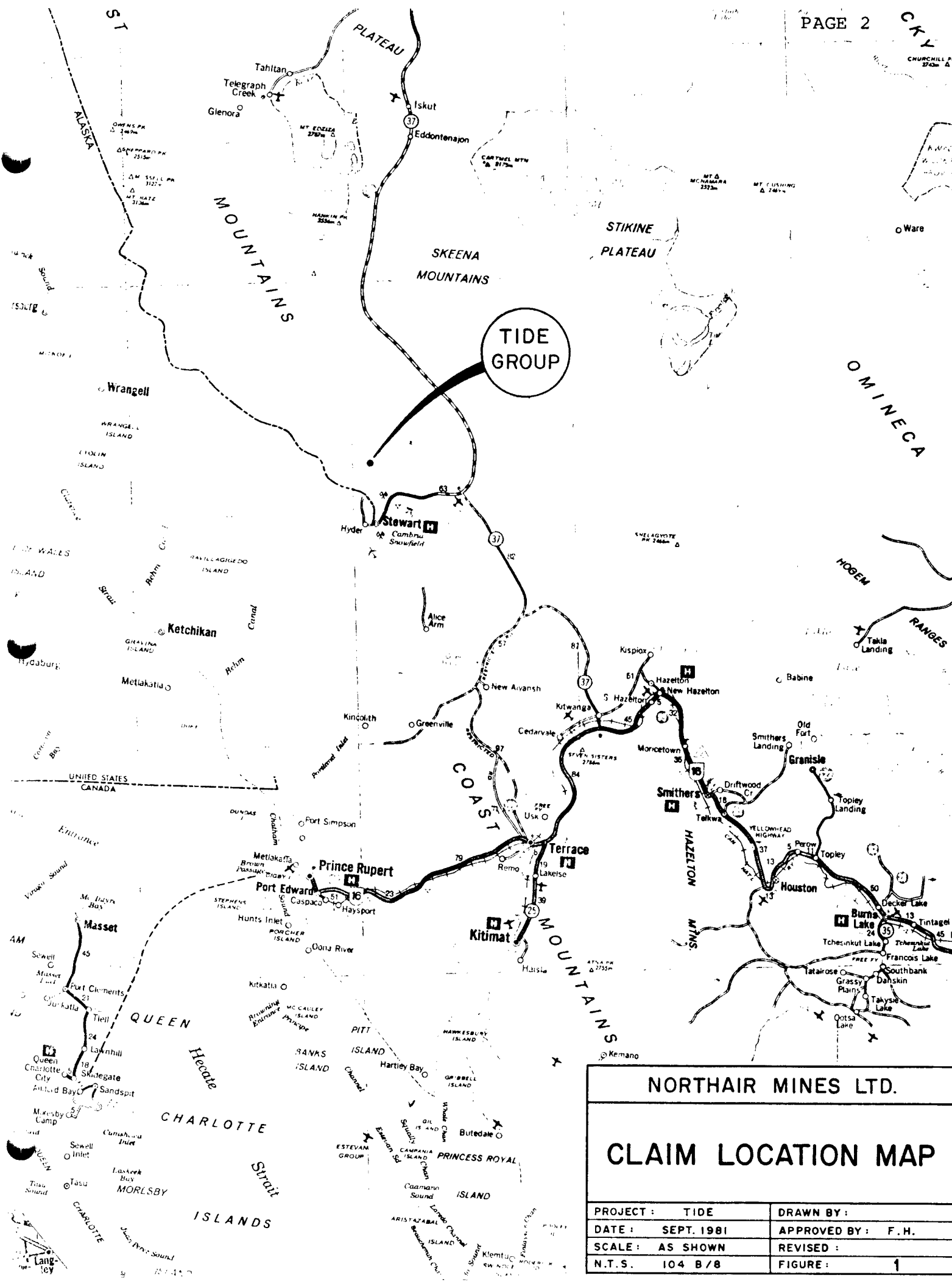
A program of silt and rock sampling was carried out in August and September 1981 to evaluate new ground and to follow recommendations by J.W. MacLeod, P. Eng., in his report of August 26, 1980.

This program has indicated significant gold and silver soil and rock values and further work is warranted.

2. INTRODUCTION

The area north of the Granduc millsite has been investigated by Northair Mines Ltd. to evaluate the possibility of an economic gold deposit. The Tide Group of claims were acquired by staking in 1979 and 1980 following anomalous geochemical results.

This report has been prepared to summarize the geochemical field work carried out on the Tide Group in 1981 and to fulfill the requirements of the Mineral Act with regard to assessment work.



NORTHAIR MINES LTD.			
CLAIM LOCATION MAP			
PROJECT :	TIDE	DRAWN BY :	
DATE :	SEPT. 1981	APPROVED BY :	F. H.
SCALE :	AS SHOWN	REVISED :	
N.T.S.	104 B/8	FIGURE :	1

3. PROPERTY OWNERSHIP

The property consists of the following claims:

<u>CLAIM NAME</u>	<u># OF UNITS</u>	<u>RECORD #</u>	<u>RECORD DATE</u>
Tide	20	1600 (8)	August 2, 1979
Tide 2	20	2569 (9)	September 10, 1980
Berendon	20	2567 (9)	September 10, 1980
Berendon 2	20	2568 (9)	September 10, 1980

These claims were grouped as the Tide Group of 80 units on September 8, 1981; and two years assessment work filed on the Group.

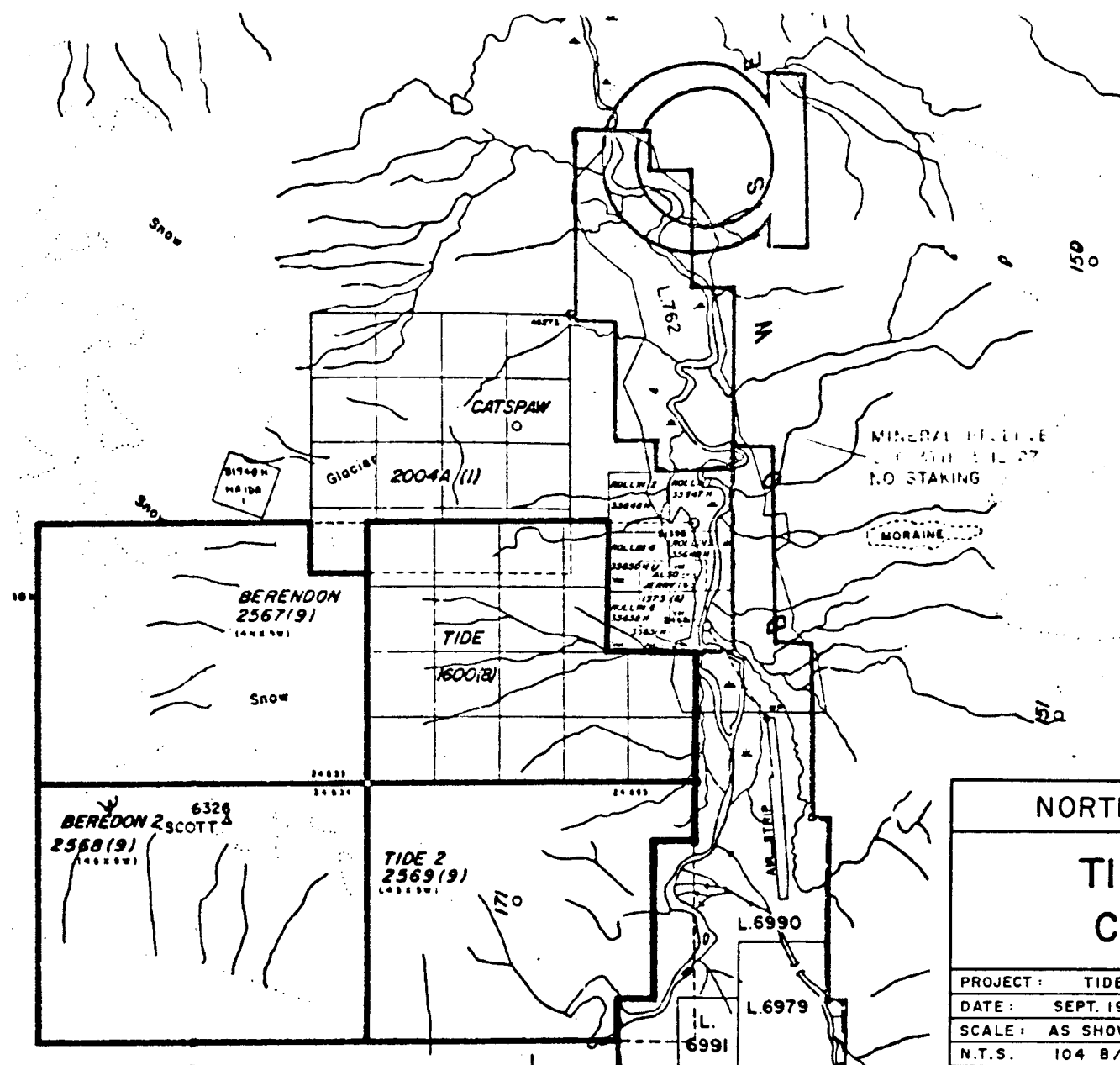
4. LOCATION & ACCESS

The Tide Group is located at $56^{\circ}17'N$, $130^{\circ}05'W$ approximately 4 km north of the Granduc millsite. Access is via the Granduc road 60 km north of Stewart, B.C. and thence over a temporary bridge across the Bowser River near the Granduc airstrip.

5. PHYSIOGRAPHY & TOPOGRAPHY

The property is located on the steep slopes of the west side of the Bowser River. Perpetual ice and snow covers the western limits of the group. The remainder of the claims are covered by sparse scrub vegetation in the lower portion of the valley and approximately 40% outcrop on the upper portion.

Relief varies between 700 metres and 1800 metres in elevation.



1000
2000
3000 Metres
3 Kilometres
DATE OF MICROFILM:
CONCENTR.D.

NORTHAIR MINES LTD.	
TIDE GROUP CLAIM MAP	
PROJECT : TIDE	DRAWN BY :
DATE : SEPT. 1981	APPROVED BY : F. H.
SCALE : AS SHOWN	REVISED :
N.T.S. 104 B/B	FIGURE : 2

6. HISTORY

Old claim posts dating from 1970 and much earlier are visible on the property. No other previous history is known.

7. GEOLOGY

The property is underlain by greywacke and argillites of the Bowser assemblage of Middle to Upper Jurassic age.

Diorite float has been noted during prospecting and is probably related to the Summit Lake intrusive to the south.

Geological mapping is needed to establish an accurate geological picture.

8. MINERAL OCCURRENCES

Gold mineralization is exposed in fine grained silicic rocks approximately 50 metres south of identification post 2S of the Berendon 2 claim. Trenching and sampling has been conducted on this showing.

Rock sampling on the remainder of the property has shown some gold values in quartz veins. Gold assays in rock over 0.10oz./ton are listed below:

Please see next page

<u>SAMPLE #</u>	<u>AU(Oz./ton)</u>	<u>AG (Oz./ton)</u>	<u>LOCATION</u>
S101	1.106	0.22	Figure 10/11
S103	2.204	0.29	Figure 10/11
S106	0.816	Trace	Float
S108	0.262	0.10	Figure 10/11
S117	0.156	0.22	Figure 10/11
S129	0.152	0.40	Figure 10/11
S142	0.122	0.18	Figure 10/11
S143	0.228	0.66	Figure 10/11
S144	0.620	0.93	Figure 10/11
S150	0.110	0.20	Figure 10/11

9. GEOCHEMICAL SURVEY

The geochemical silt and rock survey was carried out by Roy Samuelson and assistants between August 18 and Sept. 8, 1981.

A total of 52 silt samples were taken in creek depressions by running traverses roughly along contour. Samples were taken from fine sediment occurring in depressions or behind boulders in the stream beds. Analyses were done for gold, silver, lead, zinc, copper and molybdenum.

A total of 73 rock samples were taken from predominately silicified argillaceous rock and analysed for gold and silver.

Analysis was done by Vangeochem Labs Ltd. of North Vancouver, B.C. and Scottie Gold Mines Ltd. of Stewart, B.C.

10. SURVEY RESULTS

- a) Gold in Silts - A generally high background occurs in gold values, with only those values >1100 p.p.b. being considered statistically anomalous. Only three samples fall in this category.
- b) Silver in Silts - A more "normal" background occurs in the silver values, with 5.0 p.p.m. being statistically anomalous. Ten samples occur in this range, but only one coincident with an anomalous gold value.
- c) Zinc in Silts - Zinc is considered statistically anomalous at 520 p.p.m. 8 values occur in this range, with only three being coincident with silver and none with gold.

- d) Lead in Silts - Lead is statistically anomalous at 233 p.p.m. Eight values occur in this range with two corresponding with anomalous zinc and silver values, and two others only coincident with silver. None are coincident with gold.
- e) Molybdenum and Copper - A few scattered high molybdenum and copper values were noted. These values must be investigated in light of previous high silt values.

11. CONCLUSIONS

Interesting silt values in gold and silver, and significant gold values in rock, make further exploration necessary.

Statistically anomalous silt values exist in gold, silver, lead and zinc. The lead and zinc values may be considered in light of their geological environment and work should be concentrated on gold and silver.

Copper and molybdenum values should not be ignored,

12. RECOMMENDATIONS

A comprehensive program of soil and silt geochemistry, prospecting, mapping, trenching and sampling should be carried out in 1982 to determine if economic mineralization exists on the property.

Further work consisting of geophysical surveys may be necessary before possible drilling targets are established.

APPENDIX I



VANGEOCHEM LAB LTD.
1521 PEMBERTON AVE.,
NORTH VANCOUVER, B.C.,
CANADA V7P 2S3

Tide
TELEPHONE: 986-5211
AREA CODE: 604

• Specialising in Trace Elements Analyses •

Certificate of Geochemical Analyses

-IN ACCOUNT WITH-

Scottie Gold Mines
#1450 - 625 Howe St.
Vancouver, B.C. V6C 2T6
Attention: Mr. F. Hewitt

Report No: 81-78-001 Page 1 of 2
Samples Arrived: September 12, 1981
Report Completed: October 7, 1981
For Project: --
Analyst: E.T. & VGC Staff
Invoice: 6538 Job # 81-314

Sample Marking	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
# 1	5	158	68	271	1.0	160
2	8	154	107	293	2.2	190
3	17	376	156	450	2.6	130
4	7	218	120	321	4.0	420
5	15	117	100	640	2.2	90
6	3	137	69	342	4.2	100
7	6	154	80	288	1.6	130
8	7	93	44	174	0.6	140
9	7	174	56	253	0.9	110
10	3	114	51	91	1.0	130
11	3	95	25	80	0.3	30
12	3	164	44	152	0.5	130
13	5	262	105	342	2.2	230
14	4	162	96	295	1.1	140
15	10	84	86	500	1.2	270
16	3	212	175	500	4.0	200
17	4	316	174	580	6.6 ✓	140
18	4	321	147	510	2.5	140
19	3	219	214	450	4.2	3000 ✓
20	3	203	150	340	1.8	320
21	6	226	88	243	1.7	90
22	6	336	132	450	2.3	1100 110
23	10	283	148	490	3.7	1100 ✓
24	5	230	390	650	2.7	360
25	6	351	375	530	2.3	630
26	7	212	75	338	1.6	60
27	5	191	74	315	1.0	50
28	23	307	139	450	1.6	110
29	9	156	46	151	0.9	130
30	5	158	42	118	1.1	50
31	5	141	67	169	1.6	30
32	5	227	104	268	1.6	220
33	3	302	225	378	1.6	330
34	5	201	118	208	1.4	40
35	12	130	334	322	1.5	80
36	6	127	268	430	2.5	130
37	17	233	327	305	5.0	800
38	24	256	394	311	16.2	350
# 39	30	217	205	236	3.8	290

REMARKS:

✓ Repeated analyses

Signed:

% Mo x 1.6683 = % MoS₂ 1 Troy oz./ton = 34.28 ppm 1 ppm = 0.0001% nd = none detected ppm = parts per million
All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



VANGEOCHEM LAB LTD.
 1521 PEMBERTON AVE.,
 NORTH VANCOUVER, B.C.,
 CANADA V7P 2S3

TELEPHONE: 986-5211
 AREA CODE: 604

• Specialising in Trace Elements Analyses •

Certificate of Geochemical Analyses

--IN ACCOUNT WITH--

Scottie Gold Mines

Attention:

Report No: 81-78-001 Page 2 of 2
 Samples Arrived:
 Report Completed:
 For Project:
 Analyst:

Sample Marking	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
# 40	7	206	96	198	1.3	290
41	23	259	131	267	8.4 ✓	4520 ✓
42	4	303	318	397	8.0 ✓	170
43	6	227	106	320	1.7	320
44	4	131	61	183	0.5	10
45	5	301	192	300	2.0	200
46	3	193	94	273	1.3	280
47	5	268	97	239	2.5	380
48	6	156	45	145	1.3	30
49	3	264	124	398	0.8	120
50	5	179	225	183	2.6	610
51	4	273	248	339	3.3	720 ✓
# 52	8	208	92	236	1.8	410

REMARKS:

repeated analyses.

Signed:

% Mo x 1.6683 = % MoS₂ 1 Troy oz./ton = 34.28 ppm 1 ppm = 0.0001% nd = none detected ppm = parts per million
 All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



986-5211

VANGEOCHEM LAB LTD. 1521 PEMBERTON AVE., NORTH VANCOUVER, B.C., CANADA 604-~~XXXXXXXX~~

V7P 2S3

October 15, 1981

To: Scottie Gold Mines
#1450 - 625 Howe Street
Vancouver, B.C. V6C 2T6

From: Vangeochem Lab Ltd.
1521 Pemberton Avenue
North Vancouver, B.C. V7P 2S3

Subject: Analytical procedure used to determine hot acid soluble
Pb, Zn & Ag in geochemical silt, soil, and rock samples.
For Report # 81-78-001

1. Sample Preparation

- (a) Geochemical rock, silt, and soil samples were shipped to the lab by the above client. The rock samples were either stored in 8" x 13" plastic bags or in 4" x 9" cotton mailing bags. The silt and soil samples were stored in the wet-strength 3½" x 6½" Kraft paper bags.
- (b) The wet samples were dried in a ventilated oven over-night.
- (c) The dried soil or silt samples were sifted by hands, using a 8" diameter 80-mesh stainless steel sieve. The plus 80-mesh fraction materials were rejected and the minus 80-mesh fraction materials were transferred into coin envelopes for analyses later.
- (d) The dried rock samples were crushed by a jaw crusher and pulverized by using a disc mill to minus 100-mesh. The pulverized samples were stored in the 4" x 6" paper bags for later analysis.

.....2

2. Method of Digestion

- (a) 0.50 gram of the minus 80-mesh samples was used. Samples were weighed out by using a top-loading balance.
- (b) Samples were heated in a sand bath with nitric and perchloric acids (15% to 85% by volume of the concentrated acids respectively.)
- (c) The digested samples were diluted with demineralized water to a fixed volume and shaken.

3. Method of Analysis

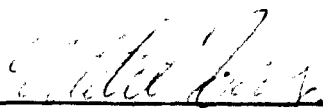
Pb, Zn & Ag analyses were determined by using a Techtron Atomic Absorption Spectrophotometer Model AA4 with their respective hollow cathode lamps. The digested samples were aspirated directly into an air and acetylene mixture flame. The results, in parts per million, were calculated by comparing a set of standards to calibrate the atomic absorption units.

4. Back Ground Correction

A Hydrogen continuum lamp is used to correct the Silver background interferences.

5. Analysts

The analyses were supervised or determined by Mr. Conway Chun or Mr. Eddie Tang and the laboratory staff.



Eddie Tang

VANGEOCHEM LAB LTD.

ET:jl



986-5211

VANGEOCHEM LAB LTD. 1521 PEMBERTON AVE., NORTH VANCOUVER, B.C., CANADA 604-~~xxxxxxx~~

V7P 2S3

October 15, 1981

To: Scottie Gold Mines
#1450 - 625 Howe St.
Vancouver, B.C. V6C 2T6

From: Vangeochem Lab Ltd.
1521 Pemberton Avunue
North Vancouver, B.C. V7P 2S3

Subject: Analytical procedure used to determine hot acid soluble
Mo, & Cu in geochemical silt, soil and rock samples.
For Report # 81-78-001

1. Sample Preparation

- (a) Geochemical soil, silt or rock samples were received in the laboratory in wet-strength 3½ x 6½ Kraft paper bags and rock samples in 4" x 6" Kraft paper bags.
- (b) The wet samples were dried in a ventilated oven.
- (c) The dried soil and silt samples were sifted by hands using a 8" diameter 80-mesh stainless steel sieves. The plus 80-mesh fraction was rejected and the minus 80-mesh fraction was transferred into a new bag for analysis later.
- (d) The dried rock samples were crushed by using a jaw crusher and pulverized to 100-mesh or finer by using a disc mill. The pulverized samples were then put in a new bag for later analysis.

2. Methods of Digestion

- (a) 0.50 gram of the minus 80-mesh samples was used. Samples were weighed out by using a top-loading balance.
- (b) Samples were heated in a sand bath with nitric and perchloric acids (15% to 85% by volume of the concentrated acids respectively).

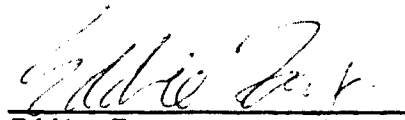
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(C) The digested samples were diluted with demineralized water to a fixed volume and shaken.

3. Method of Analysis

Mo, & Cu analyses were determined by using a Techtron Atomic Absorption Spectrophotometer Model AA4 or Model AA5 with their respective hollow cathode lamps. The digested samples were aspirated directly into an air and acetylene flame, but Mo digestion were aspirated into an acetylene and nitrous flame. The results, in parts per million, were calculated by comparing a set of standards to calibrate the atomic absorption unit and displayed in a strip chart recorder.

4. The analyses were supervised or determined by Mr. Conway Chun or Mr. Eddie Tang and the labroatory staff.


Eddie Tang

VANGEOCHEM LAB LTD.

ET:jl



986-5211

VANGEOCHEM LAB LTD. 1521 PEMBERTON AVE., NORTH VANCOUVER, B.C., CANADA 604-XXXXXXX

V7P 2S3

October 15, 1981

To: Scottie Gold Mines
#1450 - 625 Howe Street
Vancouver, B.C. V6C 2T6

From: Vangeochem Lab Ltd.
1521 Pemberton Avenue
North Vancouver, B.C. V7P 2S3

Subject: Analytical procedure used to determine Aqua Regia soluble gold
in geochemical samples.

For Report # 81-78-001

1. Method of Sample Preparation

- (a) Geochemical soil, silt or rock samples were received in the laboratory in wet-strength 4 x 6 Kraft paper bags or rock samples sometimes in 8" x 12" plastic bags.
- (b) The dried soil and silt samples were sifted by hands using a 8" diameter 80-mesh stainless steel sieve. The plus 80-mesh fraction was rejected and the minus 80-mesh fraction was transferred into a new bag for analysis later.
- (c) The dried rock samples were crushed by using a jaw crusher and pulverized to 100 - mesh or finer by using a disc mill. The pulverized samples were then put in a new bag for later analysis.

2. Method of Digestion

- (a) 5.00 - 10.00 grams of the minus 80-mesh samples were used. Samples were weighed out by using a top-loading balance into beakers.
- (b) 20 ml of Aqua Regia (3:1 HCL : HNO₃) were used to digest the samples over a hot plate vigorously.
- (c) The digested samples were filtered and the washed pulps were discarded and the filtrate was reduced to about 5 ml.
- (d) The Au complex ions were extracted into diisobutyl ketone and thiourea medium. (Anion exchange liquids "Aliquot 336").

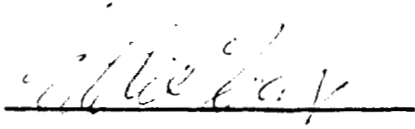
... 2

(e) Separate Funnels were used to separate the organic layer.

3. Method of Detection

The gold analyses were detected by using a Techtron model AA5 Atomic Absorption Spectrophotometer with a gold hollow cathode Lamp. The results were read out on a strip chart recorder. A hydrogen lamp was used to correct any background interferences. The gold values in parts per billion were calculated by comparing them with a set of gold standards.

4. The analyses were supervised or determined by Mr. Conway Chun or Mr. Eddie Tang and his laboratory staff.



Eddie Tang

VANGEOCHEM LAB LTD.

ET: j1

T. de Berendin

SCOTTIE GOLD MINES LTD.

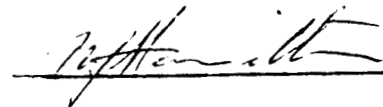
P.O. BOX 308
STEWART, B.C., V0T 1W0

ASSAY CERTIFICATE

Customer: Northair Mines

Date: Aug 31, 1981

SAMPLE NO.	GOLD ozs. per ton	SILVER ozs. per ton	% Pb	% Zn			
S100	.046	1.42					
S101	1.106	.22					
S103	2.204	.29					
S104	.016	.38					
S105	.008	Tr					
S106	.816	Tr					
S107	Tr	Tr					
S108	.262	.10					
S109	Tr	Tr					
S110	.012	Tr					
S111	.012	Tr					
S112	.016	.47					
S113	.022	1.43					


ASSAYER

SCOTTIE GOLD MINES LTD.

P.O. BOX 308
STEWART, B.C., V0T 1W0

ASSAY CERTIFICATE

Customer: Northair Mines Ltd.

Date: 11 Sept. 1981

SAMPLE NO.	GOLD ozs. per ton	SILVER ozs. per ton	% Pb	% Zn			
Berendon 2							
S116	.006	tr					
S117	.156	.22					
S118	tr	.25					
S119	.048	.44					
S120	.048	.22					
S121	.024	tr					
S122	.008	tr					

Mr. Chichibabidze ASSAYER

SCOTTIE GOLD MINES LTD.

P.O. BOX 308
STEWART, B.C., V0T 1W0

ASSAY CERTIFICATE

Customer: Northair Mines Ltd.

Date: 11 Sept. 1981

SAMPLE NO.	GOLD ozs. per ton	SILVER ozs. per ton	% Pb	% Zn			
Berendon 2...							
S123	tr	tr					
S124	tr	tr					
S125	.096	.40					
S126	tr	tr					
S127	tr	.32					
S128	.074	.89					
S129	.152	.40					
S130	tr	.56					

Mr. Chisholm ASSAYER

SCOTTIE GOLD MINES LTD.

P.O. BOX 308
STEWART, B.C., V0T 1W0

ASSAY CERTIFICATE

Northair Mines Ltd.

Customer: _____

11 Sept. 1981

Date: _____

SAMPLE NO.	GOLD ozs. per ton	SILVER ozs. per ton	% Pb	% Zn			
Berendon 2...							
S131	tr	tr					
S132	.066	.25					
S133	.008	.08					
S134	.014	tr					
S135	tr	tr					
S136	.006	tr					
S137	.010	.03					
S138	tr	.16					

Mr. Chisholm

ASSAYER

SCOTTIE GOLD MINES LTD.

P.O. BOX 308
STEWART, B.C., V0T 1W0

ASSAY CERTIFICATE

Northair Mines Ltd.

11 Sept. 1981

Customer: _____

Date: _____

SAMPLE NO.	GOLD ozs. per ton	SILVER ozs. per ton	% Pb	% Zn			
Berendon 2...							
S139	.032	.50					
S140	tr	tr					
S141	.008	.02					
S142	.130	.18					
S143	.228	.66					
S144	.620	.93					

M. Chaboud ASSAYER

SCOTTIE GOLD MINES LTD.

P.O. BOX 308
STEWART, B.C., V0T 1W0

Tide

ASSAY CERTIFICATE

Customer: Northair Mines Ltd.

Date: 15 Sept. 1981

SAMPLE NO.	GOLD ozs. per ton	SILVER ozs. per ton	% Pb	% Zn			
Tide 2 S 145	.010	tr					

M. Chubbald ASSAYER

SCOTTIE GOLD MINES LTD.

P.O. BOX 308
STEWART, B.C., V0T 1W0

Tide

ASSAY CERTIFICATE

Customer: Northair Mines Ltd.

Date: 22 Sept. 1981

SAMPLE NO.	GOLD ozs. per ton	SILVER ozs. per ton	% Pb	% Zn			
Northair S 155	.032	tr					
" S 156	tr	tr					
" S 157	tr	tr					
" S 158	.040	tr					
" S 159	.038	tr					
" S 160	.028	tr					
" S 161	tr	tr					
" S 162	.022	tr					

M. Chisholm ASSAYER

SCOTTIE GOLD MINES LTD.

P.O. BOX 308
STEWART, B.C., V0T 1W0

Tide

ASSAY CERTIFICATE

Customer: Northair Mines Ltd.

Date: 22 Sept. 1981

SAMPLE NO.	GOLD ozs. per ton	SILVER ozs. per ton	% Pb	% Zn			
Northair S 146	.004	tr					
" S 147	.008	tr					
" S 148	.006	tr					
" S 149	.008	tr					
" S 150	.110	.20					
" S 151	tr	tr					
" S 152	.006	tr					
" S 153	tr	tr					

(note: S154 at end)

M. Chisholm ASSAYER

SCOTTIE GOLD MINES LTD.

P.O. BOX 308
STEWART, B.C., VOT 1W0

Tide

ASSAY CERTIFICATE

Northair Mines Ltd.

Customer: _____

22 Sept. 198

Date: _____

SAMPLE NO.	GOLD ozs. per ton	SILVER ozs. per ton	% Pb	% Zn			
Northair S 171	.004	tr					
" S 172	tr	tr					
" S 173	.010	tr					
" S 174	.004	tr					
" S 175	tr	tr					
" S 154	.026	.06					

M. Archibald ASSAYER

SCOTTIE GOLD MINES LTD.

P.O. BOX 308
STEWART, B.C., VOT 1W0

Tide

ASSAY CERTIFICATE

Northair Mines Ltd.

Customer: _____

22 Sept. 19

Date: _____

SAMPLE NO.	GOLD ozs. per ton	SILVER ozs. per ton	% Pb	% Zn			
Northair S 163	.052	tr					
" S 164	.042	tr					
" S 165	tr	tr					
" S 166	.014	tr					
" S 167	.078	.20					
" S 168	tr	tr					
" S 169	tr	tr					
" S 170	tr	tr					

M. Archibald ASSAYER

Scottie gold mines Ltd.

p.o. box 308, stewart, b.c V0T 1W0 telephone (604) 636-2334 or 636-2677

19 October 1981

Northair Mines Ltd.
1450-625 Howe Street
Vancouver, B.C.
V6C 2T6

RE: ASSAY PROCEDURE FOR TIDE BERENDON SAMPLES IN DETERMINING GOLD AND SILVER CONTENT.

1. Sample Preparation

- (a) Soil, diamond drill and rock samples were delivered to the assay lab in heavy plastic bags.
- (b) All samples were dried overnight at 180° F in a ventilated oven.
- (c) All samples were: i) run through the jaw crusher (10 mesh and finer), ii) riffled until an appropriate amount remained and iii) pulverized in the disc mill. The reject portion of each sample was bagged, labelled and stored.

2. Method of Analysis: Fire Assay

- (a) One-half assay ton (14.583 grams) of each sample was weighed out using a top loading torsion balance.
- (b) Samples were added to 30 gram crucibles and thoroughly mixed with a suitable flux. Inquarts of approximately 2 milligrams were added to each sample.

-2-

Northair Mines Ltd.
19 October 1981

- (c) Samples were placed in the oven with a fusion temperature of 1900° F. The resulting buttons, weighing between 30 and 40 grams, were cupelled at approximately 1500° F.
- (d) After cupellation each bead was weighed on a microbalance. Beads were parted in a nitric acid solution, washed, annealed and re-weighed.
- (e) Final results were calculated in ounces per ton of gold and silver.

Munroe Archibald

Munroe Archibald
Assayer
SCOTTIE GOLD MINES LTD.

APPENDIX II

COST ESTIMATE

1. WAGES

Roy Samuelson	22 days @ \$90.00/day	\$1,980.00
Clark Hopkins	9 days @ \$65.00/day	585.00
Bob Miner	13 days @ \$65.00/day	<u>845.00</u>
		\$3,410.00

2. FOOD & ACCOMMODATION

44 man days (as above) @ \$35.00/manday	\$1,540.00
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3. EQUIPMENT & SUPPLIES

Tent, sleeping bags, camp equipment	\$650.00
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4. TRANSPORTATION

Airfare: Vancouver - Stewart	
4 round trips @ \$373.40	\$1,494.00
Vancouver Island Helicopters:	
4.32 hours @ \$548.50/hour	<u>2,368.00</u>
	\$3,862.00

5. ASSAYS

Scottie Gold Mines:	
60 Au/Ag assays @ \$13.00/sample	\$780.00
Vangeochem Labs Ltd.:	
53 analysis @ \$11.00/sample	<u>583.00</u>
	\$1,363.00

6. REPORT PREPARATION

F. Hewett - 2 days @ \$175.00/day	\$350.00
Drafting & printing (Edco Ltd.)	<u>400.00</u>
	\$750.00

<u>TOTAL:</u>	<u>\$11,575.00</u>
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APPENDIX III

STATEMENT OF QUALIFICATIONS

I, Fred G. Hewett, with business address in the City of Vancouver, and residential address in the District of Coquitlam, in the Province of British Columbia,

DO HEREBY CERTIFY THAT:

1. I am a graduate of the University of British Columbia with a Bachelor of Science Degree in Geology.
2. I am a registered member of the Association of Professional Engineers of the Province of British Columbia.
3. I am a member of the Canadian Institute of Mining and Metallurgy and a fellow of the Geological Association of Canada.
4. I have practiced various levels of my profession in Canada for approximately fifteen years.
5. I am presently employed by Northair Mines Ltd, and did personally supervise the work described in this report.

Fred Hewett.

Fred G. Hewett, B.Sc., P.Eng.

Dated at the City of Vancouver,
In the Province of British Columbia,
This 17th day of October, 1981.

Fred Hewett

General Delivery,

Ellena Bay, A.C.

30 April, 1944.

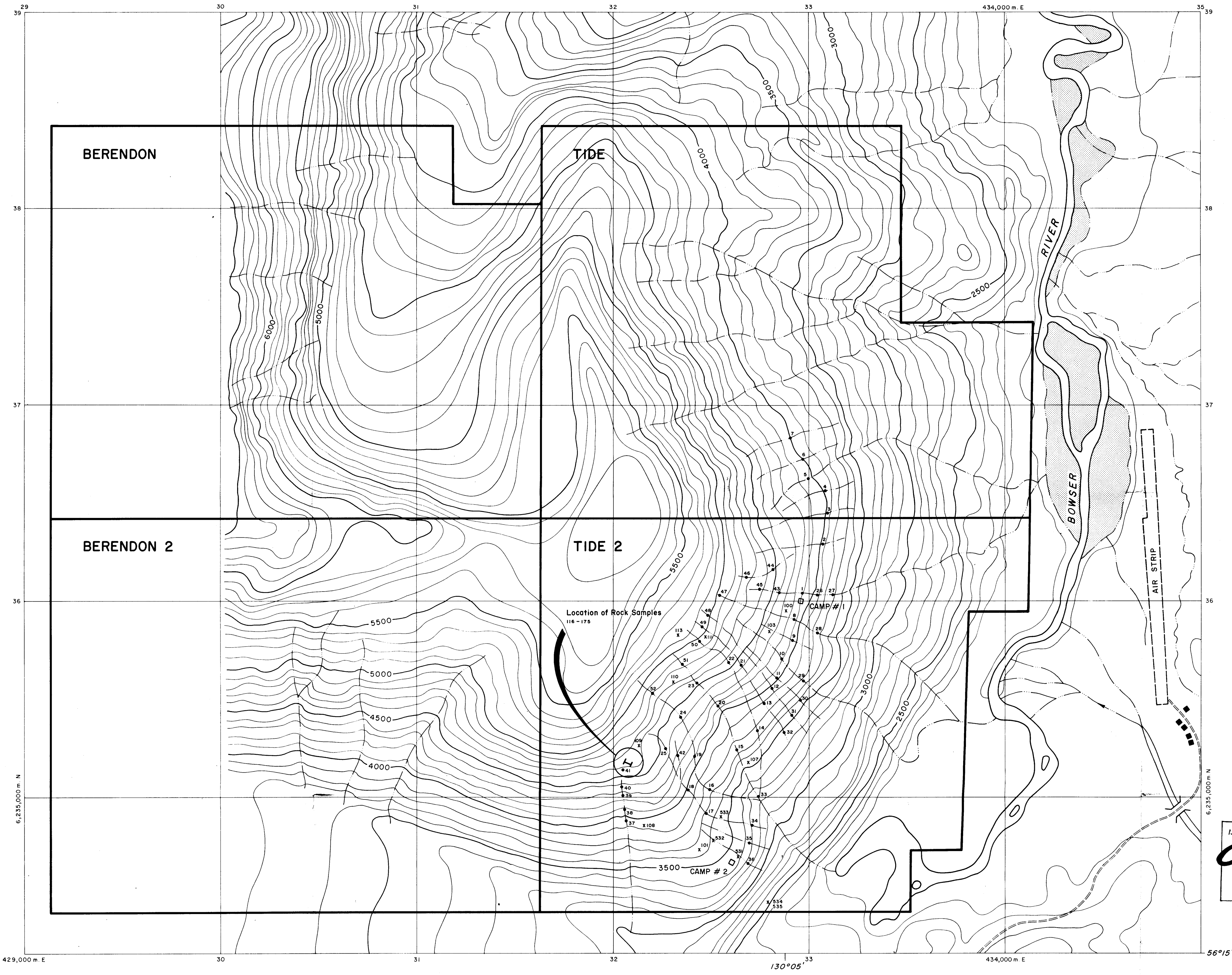
TO MR. J. L. W. JONES:

I, Roy Samuelson, have been a prospector for 15 years, with experience in many areas of western A.C. and the Yukon.

I have been employed for 14 seasons with Falconbridge Nickel Mines, for 1 season with Canadian Superior Oil, and for 2 seasons with Fort Yukon Mines. In addition, I have participated in considerable free-lance prospecting which has involved me in a number of mining properties.

For the past three years, I have taught prospecting for Malaspina College at Cosell River for their Winter Night School program.

Roy Samuelson



LEGEND
 • 210 = Silt Samples
 x 531 = Rock Samples

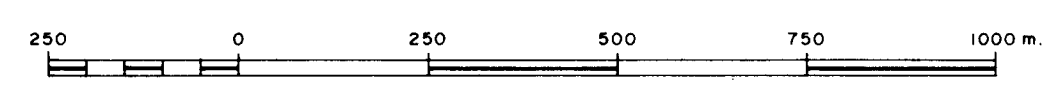
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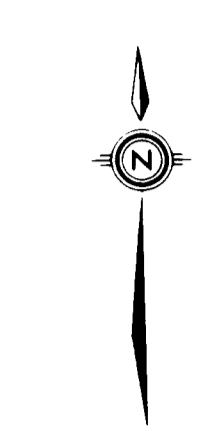
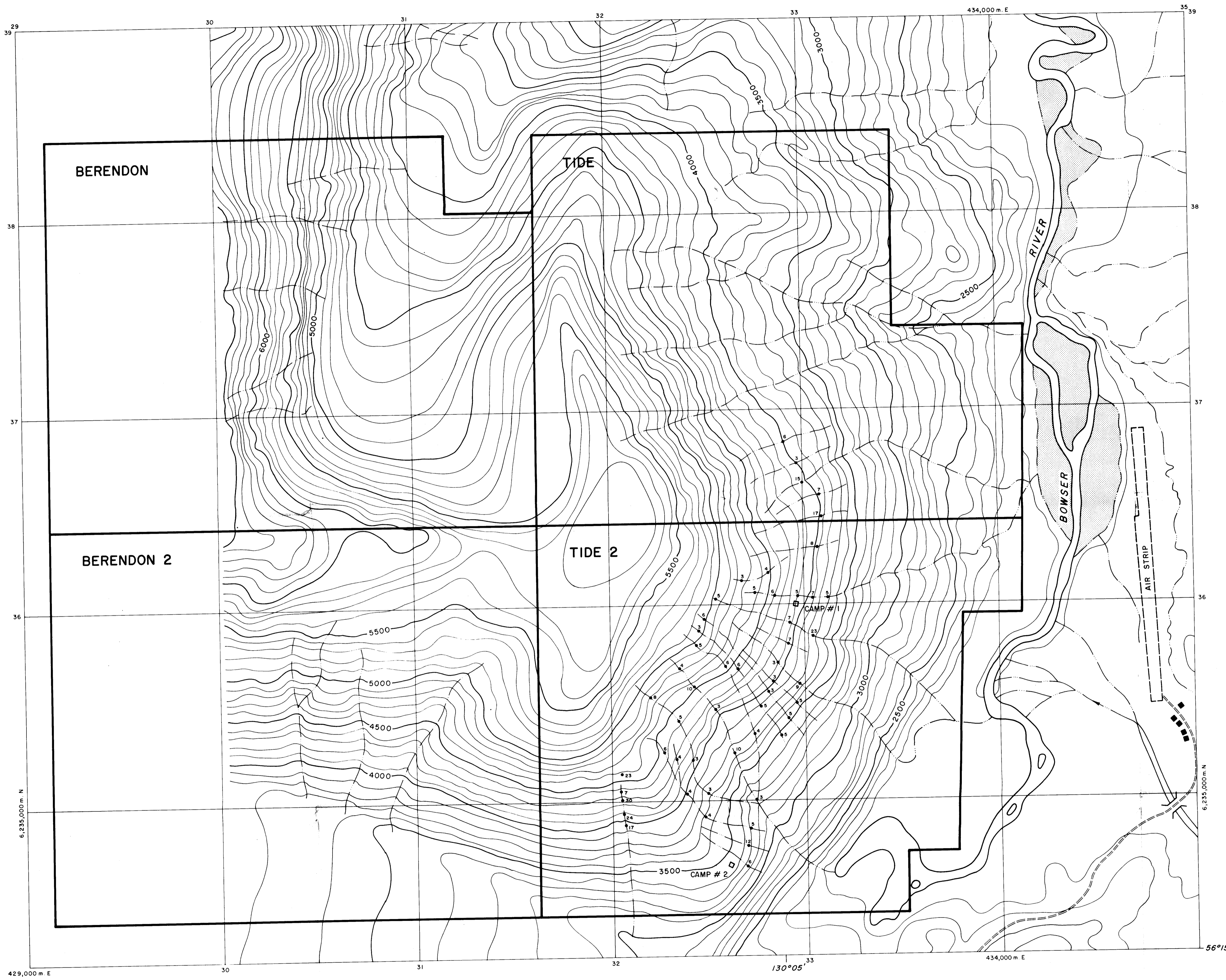
NORTHAIR MINES LTD.

Sample Locations

PROJECT	TIDE GROUP	DRAWN BY:	EDCO LTD.
DATE:	SEPTEMBER, 1981	APPROVED BY:	F.H.
SCALE:	1:10,000	REVISED:	
N.T.S.	104 B/8	FIGURE:	3

SCALE 1:10,000





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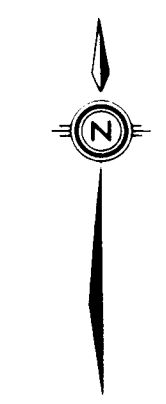
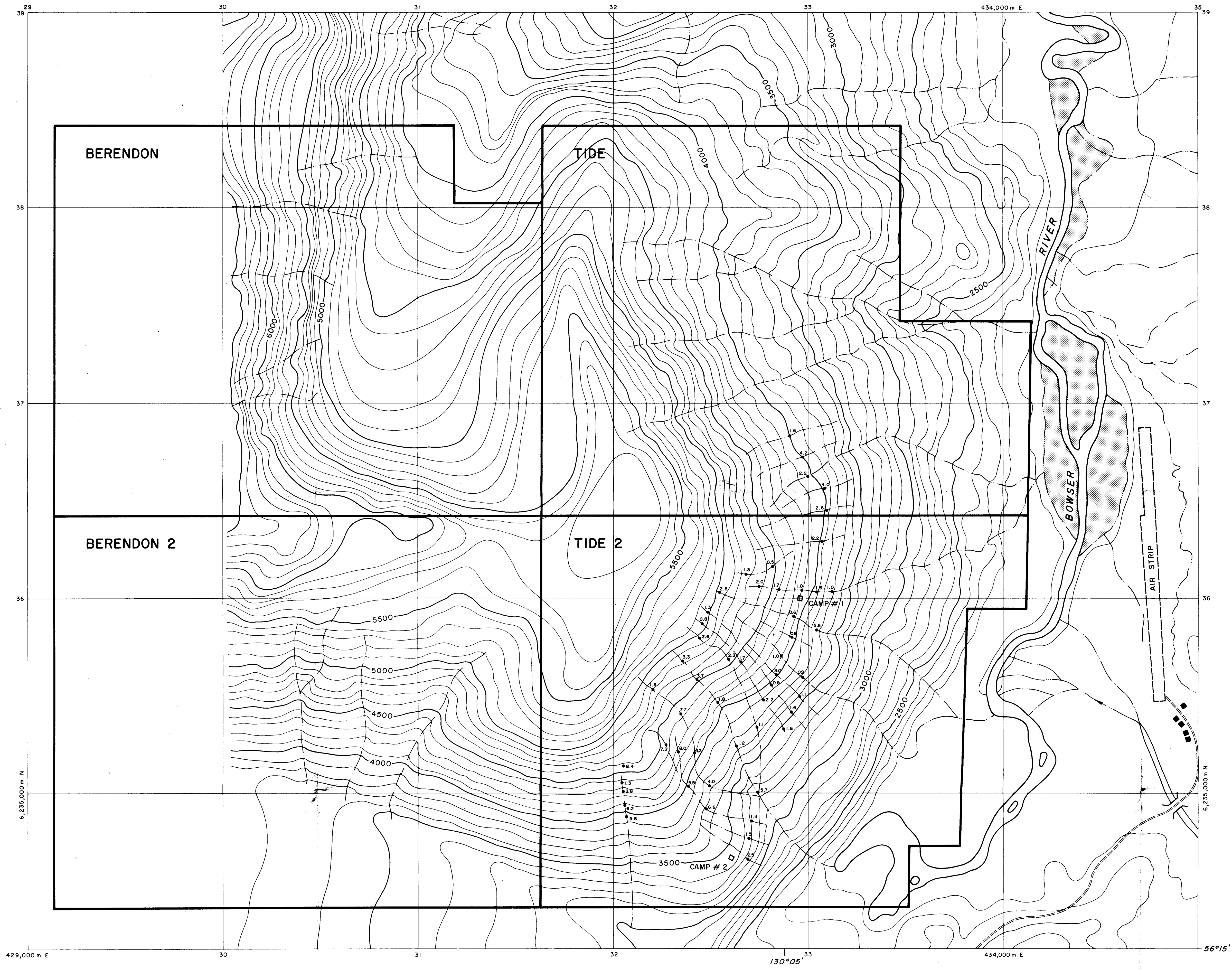
NORTHAIR MINES LTD.

**Molybdenum -
Silt Geochemistry**
ppm

PROJECT	TIDE GROUP	DRAWN BY:	EDCO LTD.
DATE:	SEPTEMBER, 1981	APPROVED BY:	F.H.
SCALE:	1:10,000	REVISED:	
N.T.S.	104 B/8	FIGURE:	4

SCALE 1:10,000



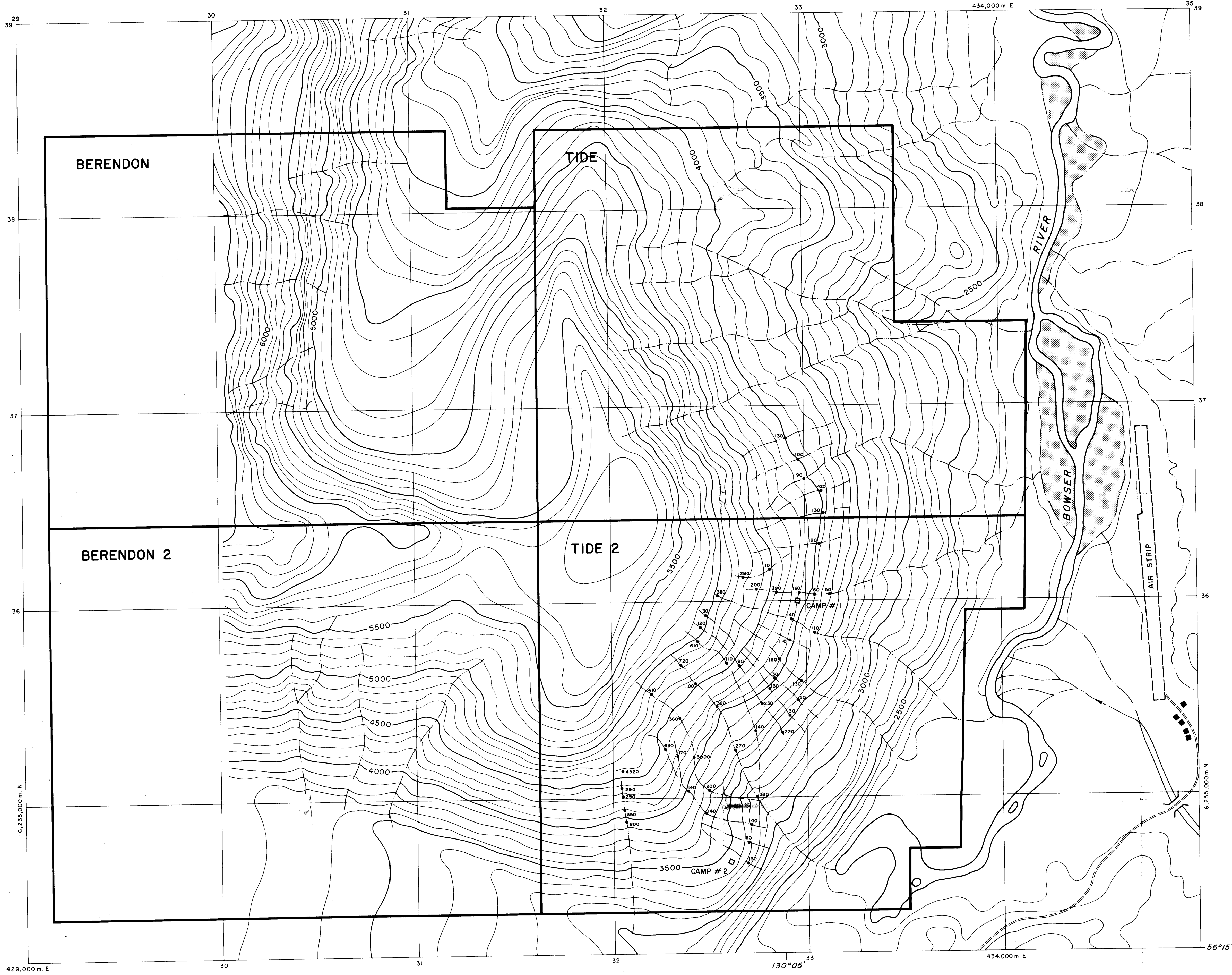


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NORTHAIR MINES LTD.

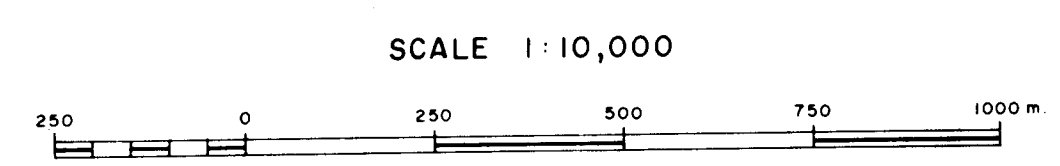
Silver - Silt Geochemistry
ppm

PROJECT	TIDE GROUP	DRAWN BY:	EDCO LTD.
DATE:	SEPTEMBER, 1981	APPROVED BY:	F.H.
SCALE:	1:10,000	REVISED:	
N.T.S.	104 B/8	FIGURE:	5

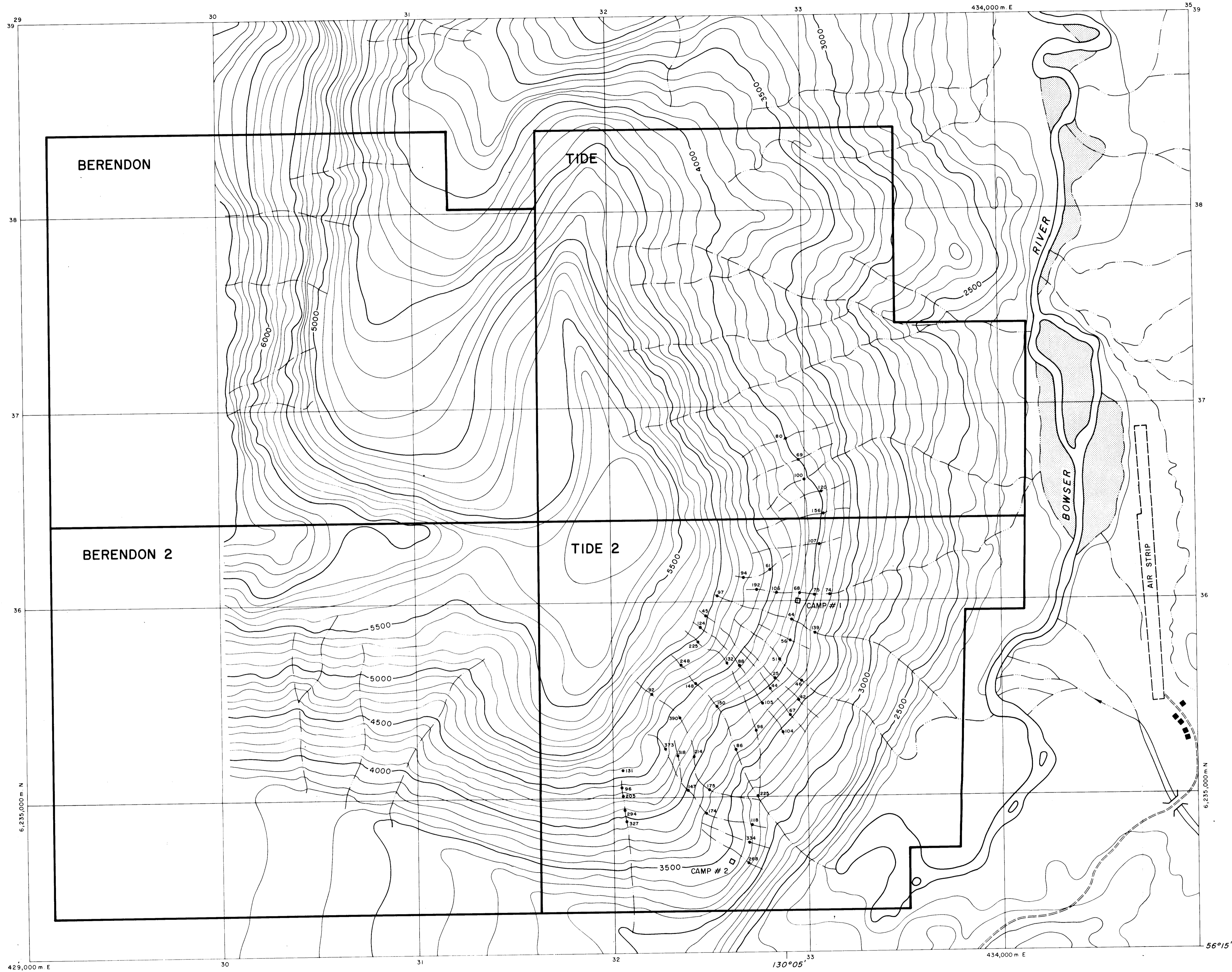


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NORTHAM MINES LTD.

Gold - Silt Geochemistry
ppb



PROJECT	TIDE GROUP	DRAWN BY:	EDCO LTD.
DATE	SEPTEMBER, 1981	APPROVED BY:	F.H.
SCALE	1:10,000	REVISED	
N.T.S.	104 B/8	FIGURE	6

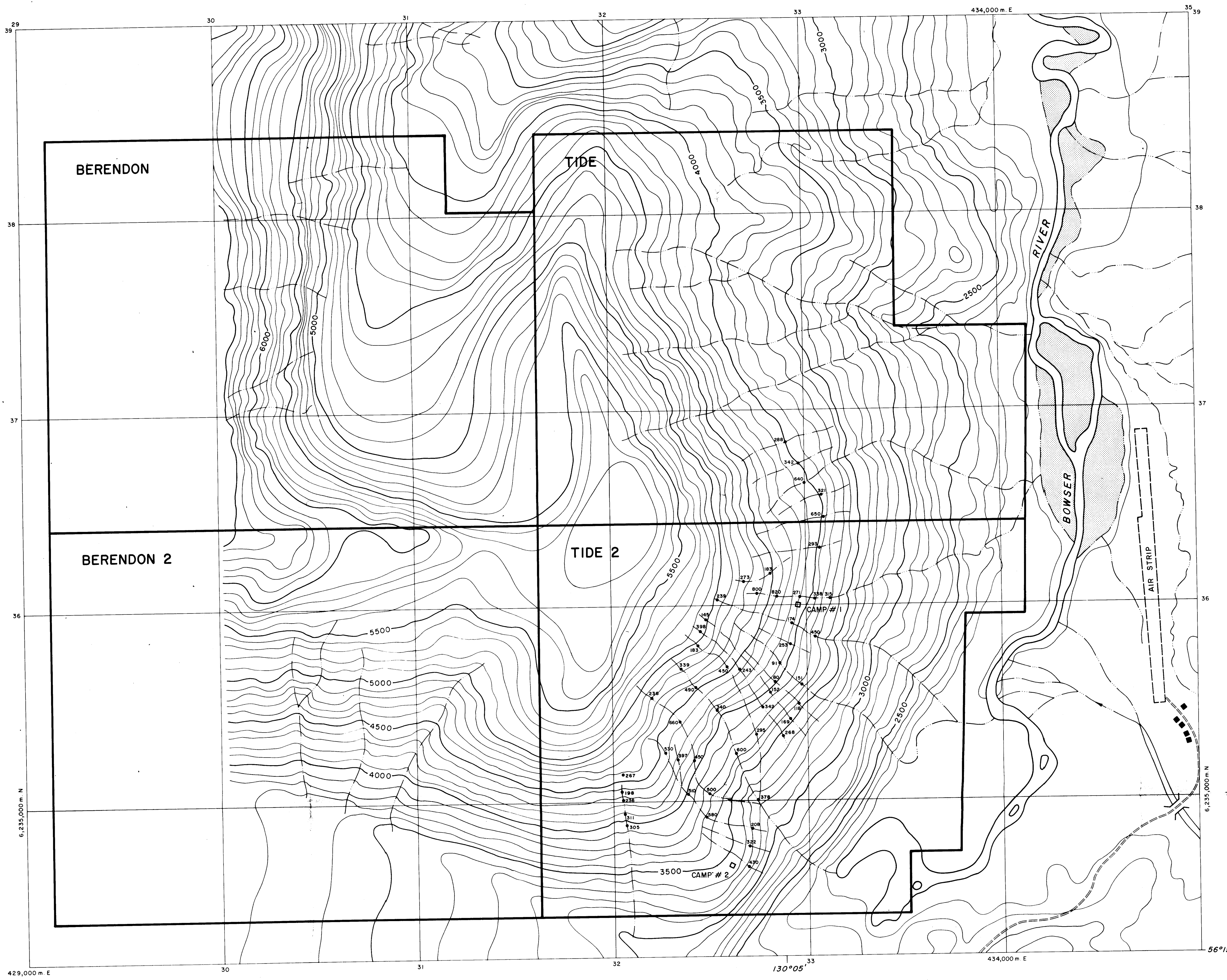


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NORTHAIR MINES LTD.

Lead - Silt Geochemistry
ppm

PROJECT	TIDE GROUP	DRAWN BY:	EDCO LTD.
DATE:	SEPTEMBER, 1981	APPROVED BY:	F.H.
SCALE:	1:10,000	REVISED:	
N.T.S.	104 B/8	FIGURE:	7

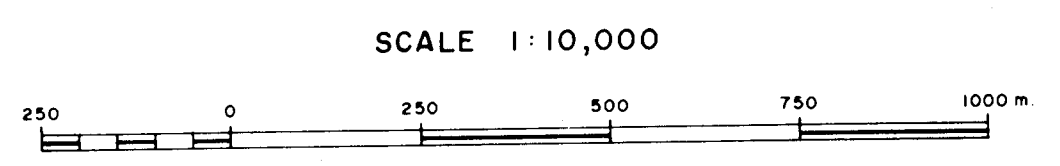


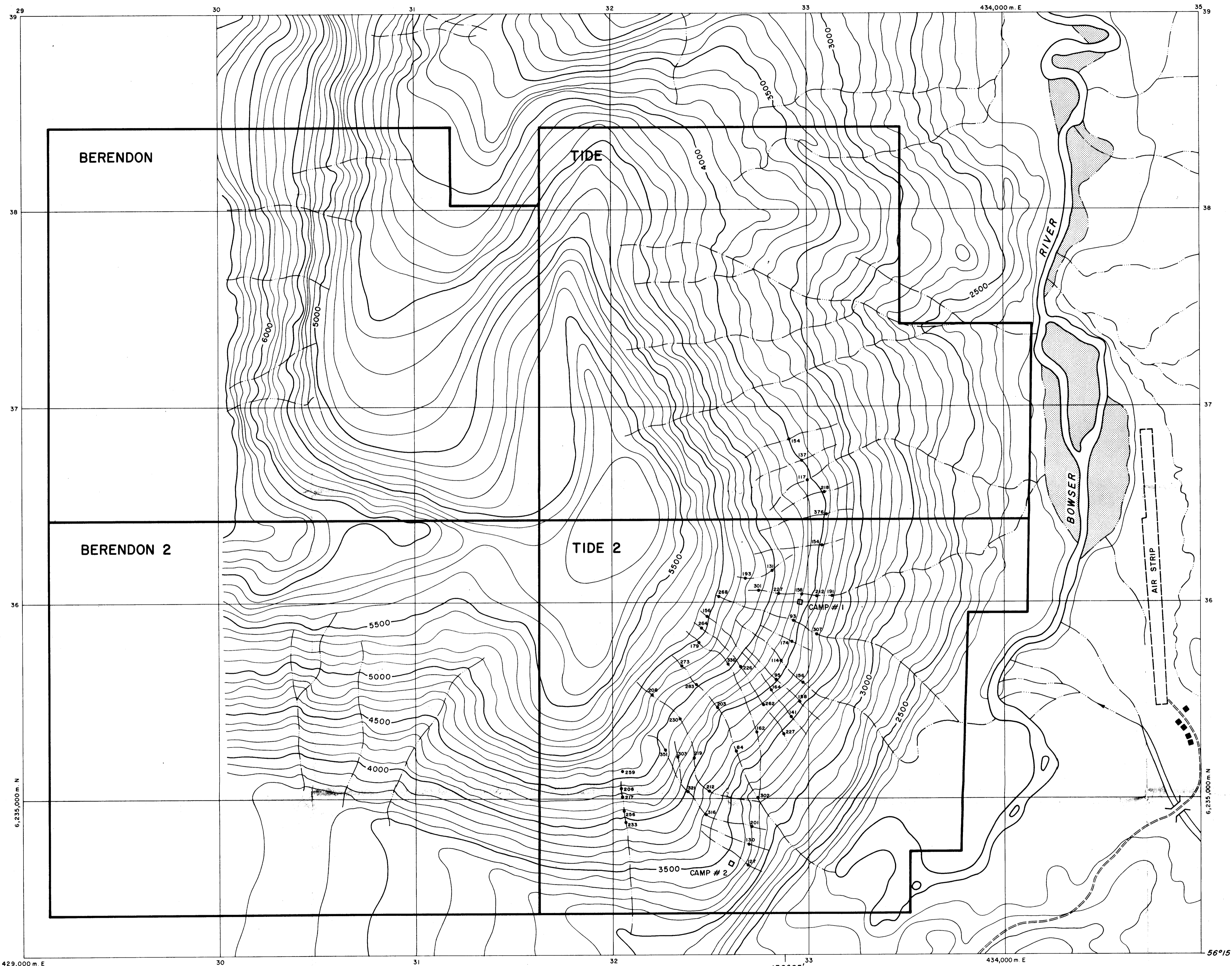
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NORTHAM MINES LTD.

Zinc - Silt Geochemistry
ppm

PROJECT	TIDE GROUP	DRAWN BY:	EDCO LTD.
DATE:	SEPTEMBER, 1981	APPROVED BY:	F.H.
SCALE:	1:10,000	REVISED:	
N.T.S.	104 B/8	FIGURE:	8





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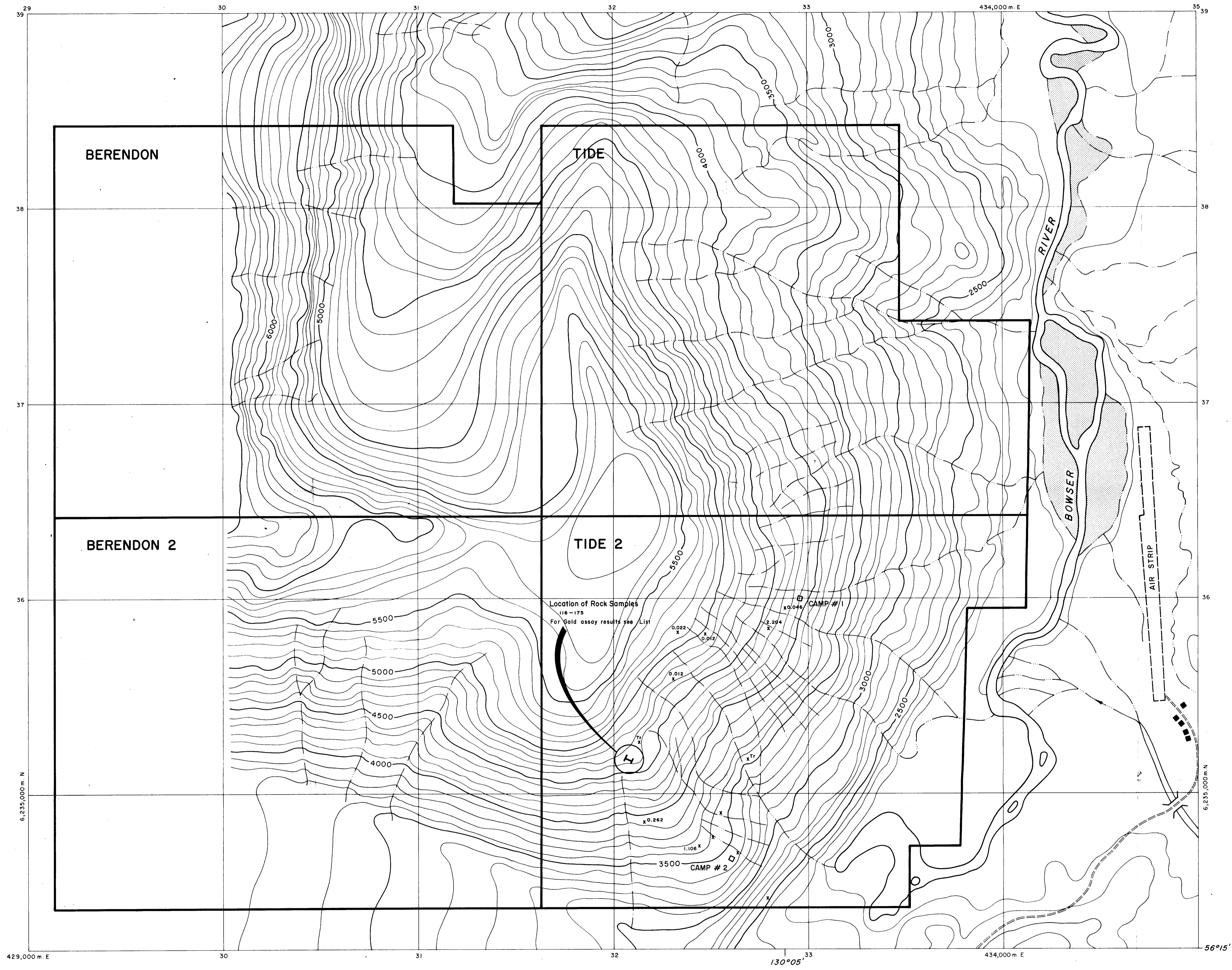
NORTHAIR MINES LTD.

Copper - Silt Geochemistry
ppm

PROJECT	TIDE GROUP	DRAWN BY:	EDCO LTD.
DATE:	SEPTEMBER, 1981	APPROVED BY:	F.H.
SCALE:	1:10,000	REVISED:	
N.T.S.	104 B/8	FIGURE:	9

SCALE 1:10,000



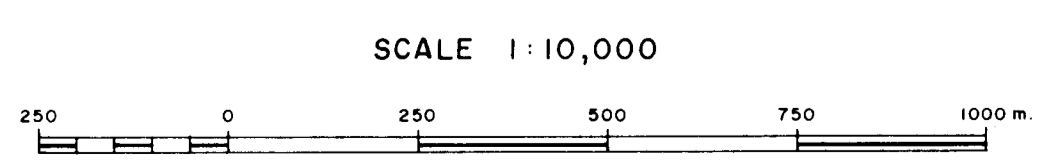


Sample No.	Au ozs. per ton	Sample No.	Au ozs. per ton
116	0.006	146	0.004
117	0.196	147	0.008
118	Tr	148	0.006
119	0.048	149	0.008
120	0.088	150	0.110
121	0.024	151	Tr
122	0.008	152	0.006
123	Tr	153	Tr
124	Tr	154	0.026
125	0.096	155	Tr
126	Tr	156	0.032
127	Tr	157	0.038
128	0.074	158	0.040
129	0.152	159	Tr
130	Tr	160	0.028
131	Tr	161	Tr
132	0.066	162	0.022
133	0.008	163	0.052
134	0.014	164	0.042
135	Tr	165	Tr
136	0.006	166	0.014
137	0.010	167	0.078
138	Tr	168	Tr
139	0.032	169	Tr
140	Tr	170	Tr
141	0.008	171	0.004
142	0.130	172	Tr
143	0.228	173	0.010
144	0.680	174	0.004
145	0.010	175	Tr

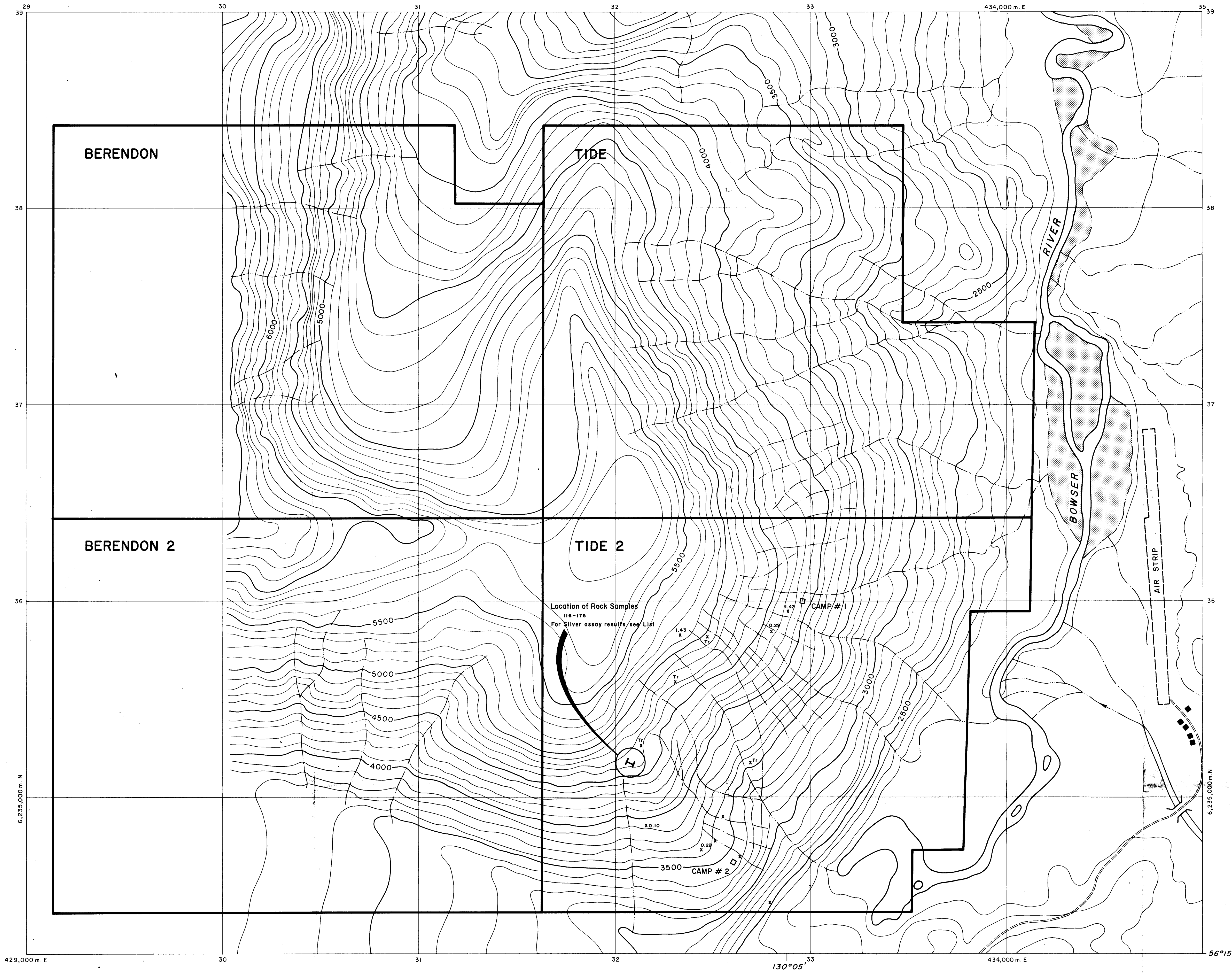
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NORTHAIR MINES LTD.

Gold Values (Rock)



PROJECT	TIDE GROUP	DRAWN BY:	EDCO LTD.
DATE:	SEPTEMBER, 1981	APPROVED BY:	F.H.
SCALE:	1:10,000	REVISED:	
N.T.S.	104 B/B	FIGURE:	10



Location of Rock Samples
116-175
For Silver assay results, see List

Sample No.	Ag ozs. per ton	Sample No.	Ag ozs. per ton
116	Tr	146	Tr
117	0.22	147	Tr
118	0.25	148	Tr
119	0.44	149	Tr
120	0.22	150	0.20
121	Tr	151	Tr
122	Tr	152	Tr
123	Tr	153	Tr
124	Tr	154	0.06
125	0.40	155	Tr
126	Tr	156	Tr
127	0.32	157	Tr
128	0.89	158	Tr
129	0.40	159	Tr
130	0.56	160	Tr
131	Tr	161	Tr
132	0.25	162	Tr
133	0.08	163	Tr
134	Tr	164	Tr
135	Tr	165	Tr
136	Tr	166	Tr
137	0.03	167	0.20
138	0.16	168	Tr
139	0.50	169	Tr
140	Tr	170	Tr
141	0.02	171	Tr
142	0.18	172	Tr
143	0.86	173	Tr
144	0.93	174	Tr
145	Tr	175	Tr

MINERAL DEVELOPMENT BRANCH
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NORTHAIR MINES LTD.

Silver Values (Rock)

PROJECT	TIDE GROUP	DRAWN BY:	EDCO LTD.
DATE:	SEPTEMBER, 1981	APPROVED BY:	F.H.
SCALE:	1:10,000	REVISED:	
N.T.S.	104 B/8	FIGURE:	11