

9092

GEOCHEMICAL REPORT

ON THE LIMP #2 CLAIM

STIKINE REGION, LIARD MINING DIVISION

104G/13W

57° 48' N, 131° 53' W

BY

P. FOLK, P. ENG.

OF

TECK EXPLORATIONS LIMITED

FOR

TECK CORPORATION

Vancouver, B.C.

March, 1981

9092

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	4	Soil Geochemistry Au, Ag	enclosed

## INTRODUCTION

### Location and Access (Fig. 1)

The Limp #2 claim is located on Limpoke Creek about 5 km. west of the Barrington River which is itself about 40 km. west of Telegraph Creek on the Stikine River. Access is by helicopter only from Schaft Creek or Iskut. Elevations are in the 1000 m. range in rugged, mountainous terrain.

### Property (Fig. 2)

Twenty units were staked in March 1980 by employees of Teck Explorations Limited on behalf of Teck Corporation.

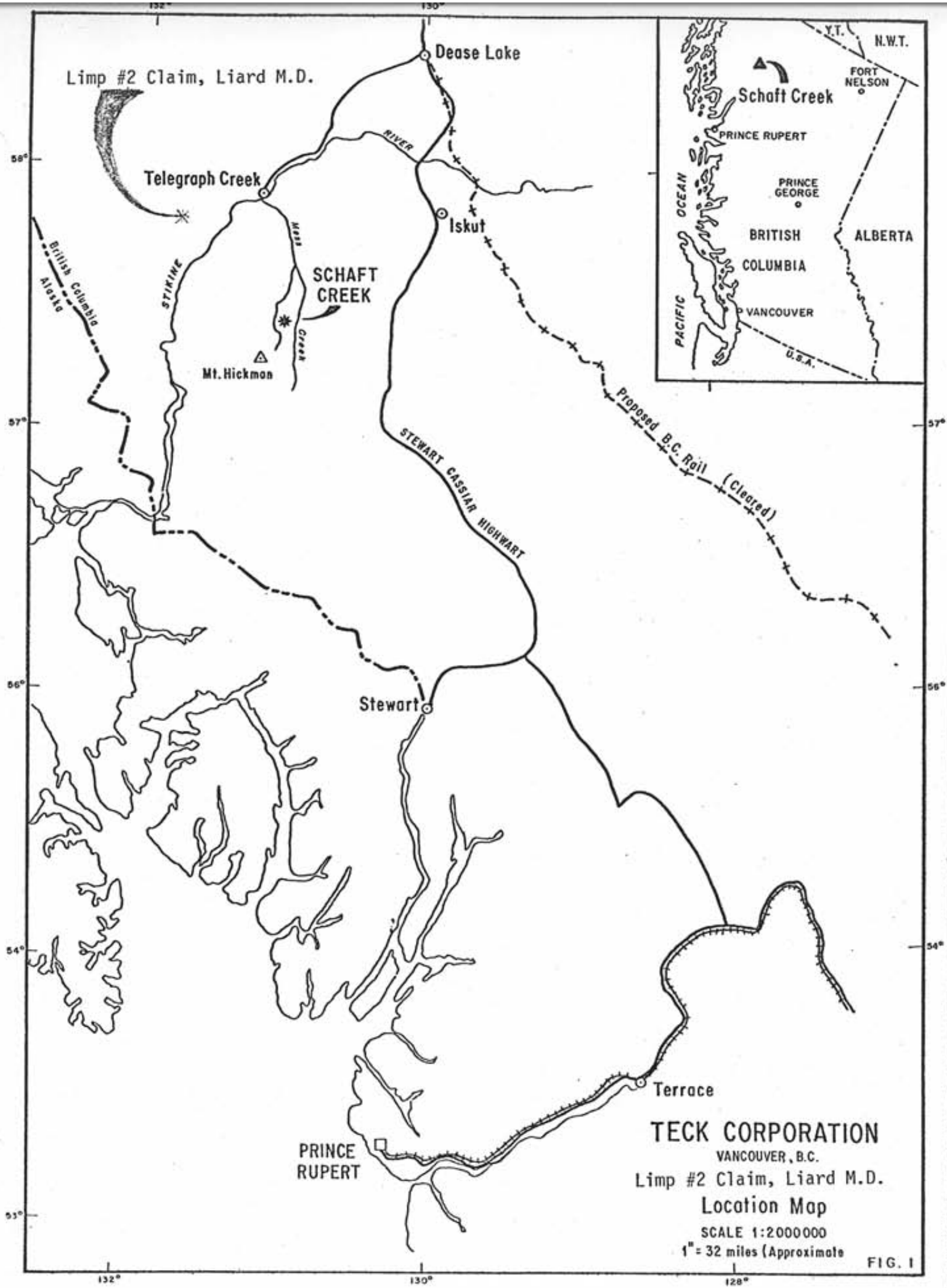
LIMP #2            20 units            Rec. No. 1234 (3) Liard M.D.

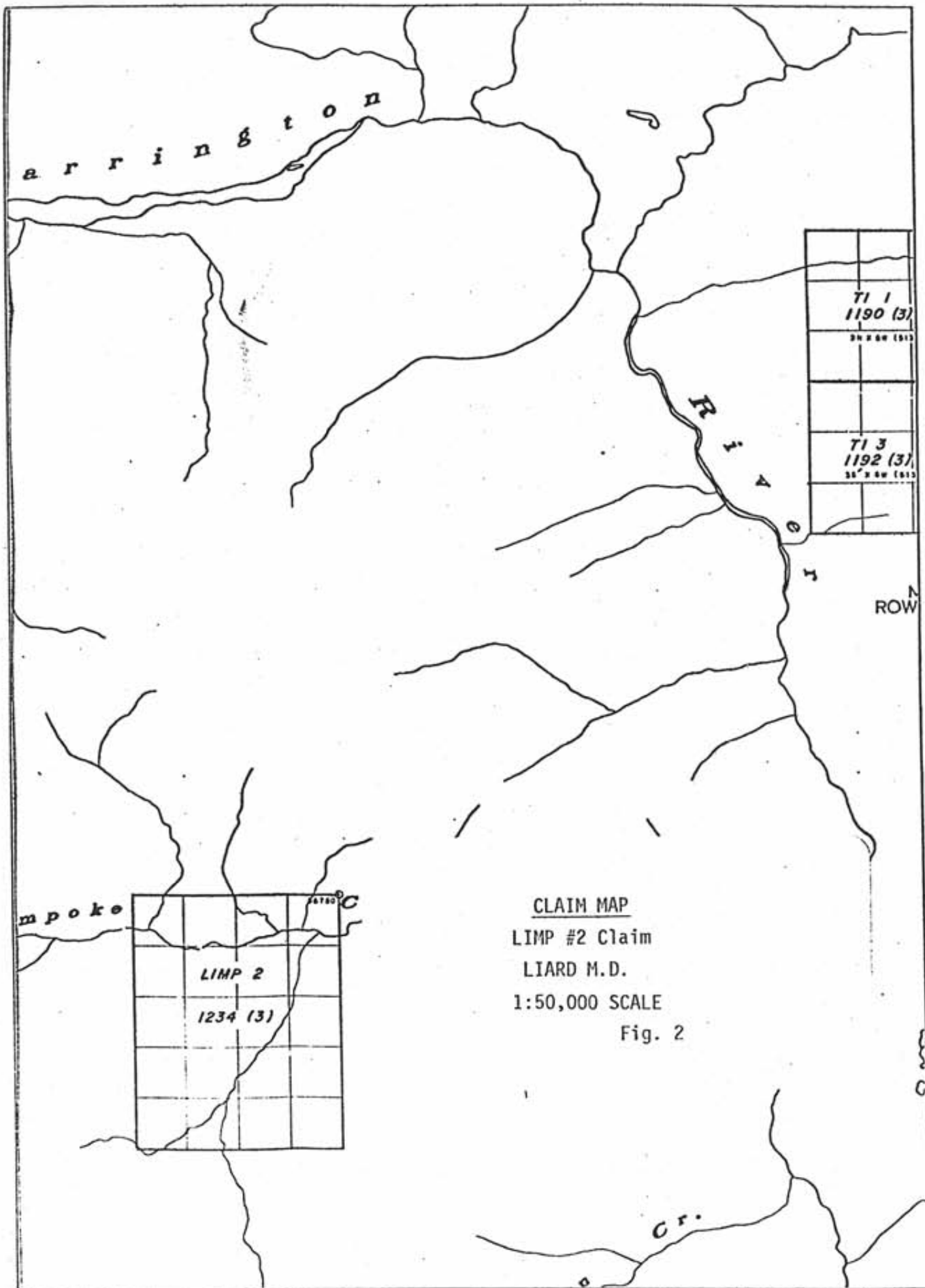
### Work Done

In early July a soil geochemical survey was undertaken to determine the extent of copper mineralization previously reported. Also it was thought that an idea of the precious metal content of the ground could be gained by soil geochemistry. One hundred and ten soil samples were taken at 50 m. intervals on lines 200 m. apart.

### History

The property was examined by Kennco Explorations in the 1960's when geological and geophysical surveys and some drilling were done. The results of the drilling are unknown.





CLAIM MAP  
 LIMP #2 Claim  
 LIARD M.D.  
 1:50,000 SCALE  
 Fig. 2

## GEOCHEMICAL SURVEY

### Methods

The survey area is situated on a steep, north facing timbered slope with some run-off gullies. The sampling medium consisted of "B" horizon material under the organic cover at an average depth of perhaps 20 cm. Migration of values downslope to the north is to be expected. Outcrop is sparse in the grid area.

Samples were collected in kraft paper bags dried and sent to Acme Analytical Labs in Vancouver for analyses by standard atomic absorption methods. Analytical techniques are described in the Appendix.

### Results

All samples were analyzed for Pb, Zn, Ag, Au, Mo, Cu and As with results being enclosed in the appendix.

Pb, Zn and As values are all uniformly low and are not thought to be of much significance. The values have not been plotted.

Cu and Mo (Fig. 3) results show only spotty high values at widely spaced intervals. The peak Mo value is 28 ppm at 700 S, 350 E and the maximum Cu value is 7300 ppm at 500 S, 200 W.

On a regional basis 1 ppm Ag and 0.1 ppm Au are considered to be strongly anomalous in soils. Only four samples yielded gold in excess of 0.1 ppm. The silver anomalies are crudely coincidental with the gold but are somewhat more widespread. A silver anomaly about 200 m. by 200 m. in the south central part of the grid is a potentially interesting anomaly.

The highest values returned were .710 ppm Au and 2.7 ppm Ag at 700 S, 200 E in a single sample anomaly.

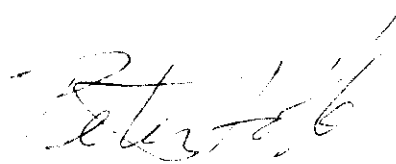
#### CONCLUSIONS

Erratic high values in Cu, Au and Mo were located and a small zone of anomalous silver was found. Pb, Zn and As values are uniformly low and uninteresting.

#### RECOMMENDATIONS

No further work is recommended.

Respectively Submitted,

A handwritten signature in cursive script, appearing to read 'Peter Folk', is written over the typed name below.

Peter Folk, P. ENG.

ITEMIZED COST STATEMENT

P. Folk - P. ENG.	
July 9 - 11 3 days @ \$200/day	\$ 600.00
P. Smith - Student Geologist	
July 7 - 11 5 days @ \$65/day	325.00
M. Kay - Helper	
July 7 - 11 5 days @ \$55/day	275.00
Helicopter, Northern Mountain Helicopters	
2060 from Schaft Creek 4 hrs @ \$400/hr	1,600.00
Transportation from Vancouver, radio rental, freight	400.00
110 geochemical soil analyses @ \$9.40	1,034.00
Report preparation, drafting	500.00
Room and board	
13 man day @ \$20/day/man	260.00
	<u>260.00</u>
	<u>\$4,994.00</u>



CERTIFICATE OF QUALIFICATIONS

Peter G. Folk, P. ENG.

I hereby certify that:

1. I graduated from the University of British Columbia in 1971 with a B.A.S.C. degree in geological engineering.
2. I am a member in good standing of the Association of Professional Engineers of the Province of British Columbia.
3. I have worked since graduation as an exploration geologist and mine geologist in Canada and the United States.
4. The work described herein was done under my direct supervision.

*Peter G. Folk*

## APPENDIX



To: Teck Corp. Ltd.,

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

File No. 80-605

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

P Folk

SAMPLE No.	Pb	Zn	Ag	Mo	Cu	Au	As				
5S 0+50 E	22	44	2.0	1	40	.005	13				1
1	19	52	.4	4	132	.010	10				2
1+50	30	46	1.1	6	35	.020	21				3
2	23	82	.3	14	138	.005	7				4
2+50	12	32	.5	4	76	.005	12				5
3	13	30	2.9	1	82	.020	8				6
3+50	18	84	.3	3	188	.040	3				7
4	19	42	.8	3	320	.005	7				8
4+50	6	20	.8	3	13	.005	8				9
5S 5 E	15	18	.3	1	17	.005	5				10
5S 0+50 W	25	104	.9	16	600	.020	21				11
1	17	46	1.4	4	95	.040	20				12
1+50	26	42	.7	5	146	.030	15				13
2	9	60	.8	3	7300	.010	7				14
2+50	24	152	.3	12	1000	.020	28				15
3	23	46	1.0	8	194	.020	19				16
3+50	22	42	.6	5	65	.005	11				17
4	19	40	1.2	4	64	.030	17				18
4+50	14	28	.2	6	43	.040	14				19
5	17	16	.5	2	10	.010	10				20
5+50	23	62	.4	8	200	.010	28				21
6	23	40	.8	10	46	.005	19				22
6+50	33	42	.5	8	50	.005	14				23
7	24	38	.5	11	56	.005	18				24
7+50	16	56	1.3	6	153	.005	10				25
8	13	18	.1	3	27	.005	6				26
8+50	21	18	.2	2	26	.020	11				27
9	5	20	.1	18	29	.005	9				28
9+50	13	38	1.1	1	38	.005	8				29
5S 10 W	18	31	.1	2	45	.005	6				30
7S 0+50 E	18	28	.2	5	60	.050	15				31
1	17	12	.3	2	15	.040	3				32
1+50	21	36	.6	6	70	.040	20				33
2	36	182	2.7	9	4200	.710	38				34
2+50	12	40	.2	3	132	.060	9				35
7S 3 E	18	62	.9	5	200	.020	21				36
											37
											38
											39
											40

All reports are the confidential property of clients  
All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED July 21, 1980

DATE REPORTS MAILED July 26, 1980

ASSAYER *Dean Toy*

DEAN TOYE, B.Sc.  
CHIEF CHEMIST  
CERTIFIED B.C. ASSAYER



To: Teck Corp. Ltd.

ACME ANALYTICAL LABORATORIES LTD.

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File No. 80-605

Type of Samples Soils

Disposition \_\_\_\_\_

**GEOCHEMICAL ASSAY CERTIFICATE**

SAMPLE No.	Pb	Zn	Ag	Mo	Cu	Au	As				
2 7S 3+50 E	25	62	.6	28	130	.010	14				1
4	14	12	.8	2	67	.010	3				2
4+50	21	30	.2	16	450	.005	10				3
7S 5 E	20	54	.4	8	150	.005	8				4
											5
7S 0+50 W	23	50	1.7	5	140	.010	14				6
1	30	44	1.2	6	40	.010	20				7
1+50	14	20	2.2	4	37	.005	9				8
2	25	38	1.5	6	70	.015	17				9
2+50	13	18	.8	2	38	.005	7				10
3	22	28	.7	5	49	.045	13				11
3+50	27	48	.9	8	60	.005	33				12
4	24	40	1.5	9	86	.005	27				13
4+50	18	86	.3	4	270	.015	7				14
5	17	92	.2	4	300	.005	7				15
5+50	16	26	.3	6	43	.010	10				16
6	20	34	.8	6	54	.005	8				17
6+50	33	48	.6	7	59	.030	22				18
7	32	60	.7	7	97	.005	22				19
7+50	21	42	.3	6	58	.005	12				20
8	28	40	.4	7	54	.005	10				21
8+50	17	52	.4	2	36	.005	8				22
9	24	54	.5	6	60	.005	37				23
9+50	25	62	.4	8	75	.005	27				24
7S 10 W	19	28	.5	6	65	.005	19				25
											26
9S 1 E	24	52	1.1	8	220	.095	13				27
1+50	14	50	.5	3	230	.020	6				28
2	17	72	.5	4	380	.005	5				29
2+50	18	32	.8	7	73	.135	9				30
3	15	20	.5	3	21	.010	5				31
3+50	19	38	.5	17	50	.005	9				32
4	8	20	1.5	1	136	.025	4				33
4+50	13	60	.2	2	250	.005	2				34
9S 5 E	14	20	.4	3	43	.005	2				35
											36
9S 0+50 W	25	30	.8	7	80	.055	14				37
1	21	40	1.1	7	133	.060	11				38
9S 1+50 W	24	40	.4	8	73	.060	9				39
											40

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ASSAYER Dean Toy

DEAN TOYE, B.Sc.  
CHIEF CHEMIST  
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File No. 80-605

Type of Samples Soils

Disposition \_\_\_\_\_

**GEOCHEMICAL ASSAY CERTIFICATE**

3

SAMPLE No.	Pb	Zn	Ag	Mo	Cu	Au	As			
95 2 W	18	28	.2	5	67	.030	10			1
2+50	34	30	.5	4	29	.030	8			2
3	19	32	.7	7	45	.040	16			3
3+50	19	30	.4	6	50	.020	12			4
4	11	12	.6	1	14	.120	4			5
5	13	28	.8	2	44	.005	3			6
5+50	25	56	.9	9	70	.005	17			7
6	21	46	.4	6	58	.010	11			8
6+50	27	56	1.2	6	59	.005	6			9
7	25	44	.9	5	50	.010	17			10
7+50	30	50	.6	6	76	.005	15			11
8	23	30	.5	3	33	.005	11			12
8+50	18	30	.3	2	28	.005	6			13
9	28	52	.3	7	47	.005	4			14
9+50	22	46	.1	4	41	.010	6			15
10	18	38	.3	1	90	.005	9			16
10+50	70	250	.3	17	170	.010	15			17
11	42	100	.7	1	109	.005	14			18
95 12+50 W	77	220	.5	10	200	.005	12			19
										20
01 0 S	21	118	.2	4	85	.020	34			21
0+50	14	34	.2	3	95	.040	6			22
1	12	30	.3	5	64	.080	5			23
1+50	10	28	.2	6	57	.020	5			24
2	17	38	1.0	8	128	.060	11			25
2+50	14	36	.3	12	88	.050	9			26
3	15	8	.2	3	11	.030	2			27
3+50	34	30	1.0	1	25	.005	29			28
4	21	42	.4	9	68	.005	32			29
4+50	19	40	.6	3	93	.020	25			30
5	22	62	1.1	4	350	.030	5			31
5+50	19	33	.7	5	76	.020	20			32
6	29	80	.5	15	260	.040	32			33
6+50	13	30	.3	8	58	.080	18			34
7	18	28	.4	3	46	.060	6			35
7+50	30	38	.6	13	154	.100	32			36
8	21	38	2.1	7	180	.120	17			37
8+50	20	32	1.0	8	72	.080	15			38
01 9 S	32	40	.7	9	140	.080	14			39
										40

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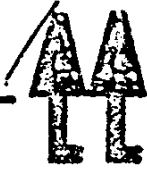
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ASSAYER

*D. Toye*  
DEAN TOYE, B.Sc.  
CHIEF CHEMIST  
CERTIFIED B.C. ASSAYER



GEOCHEMICAL LABORATORY METHODOLOGY - 1981

SAMPLE PREPARATION

1. Soil samples are dried at 60°C and sieved to -80 mesh.
2. Rock samples are pulverized to -100 mesh.

Geochemical Analysis for Ag\*, Bi\*, Cd\*, Co, Cu, Fe, Mn, Mo, Ni, Pb, Sb\*, V, Zn

0.5 gram samples are digested hot dilute aqua regia in a boiling water bath and diluted to 10 ml with dimineralized water.

All the above elements are determined in the acid solution by Atomic Absorption.

\* demotes background correction.

Geochemical Analysis for Au

10.0 gram samples that have been ignited overnite at 600°C are digested with hot dilute aqua regia, and the clear solution obtained is extracted with Methyl Isobutyl Ketone.

Au is determined in the MIBK extract by Atomic Absorption using background correction ( Detection Limit = 5 ppb direct AA and 1 ppb graphite AA. )

Geochemical Analysis for Au, Pd, Pt, Rh

10.0 - 30.0 gram samples are subjected to Fire assay preconcentration techniques to produce silver beads.

The silver beads are dissolved and Au, Pd, Pt, and Rh are determined in the solution by Atomic Absorption.

Geochemical Analysis for As

0.5 gram samples are digested with hot dilute aqua regia and diluted to 10 ml.

As is determined in the solution by Graphite Furnace Atomic Absorption.



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Geochemical Analysis of Hg

Digestion

A .50 gram sample is digested with aqua regia and diluted with 20% HCl.

Determination

Hg in the solution is determined by cold vapour AA using F & J Scientific Hg assembly. An aliquot is added to stannous chloride-hydrochloric acid solution. The reduced Hg is swept out of the solution and passed into the Hg cell where it is determined by AA.

Oxalic Acid Leach of Rock, Soil & Silt Samples

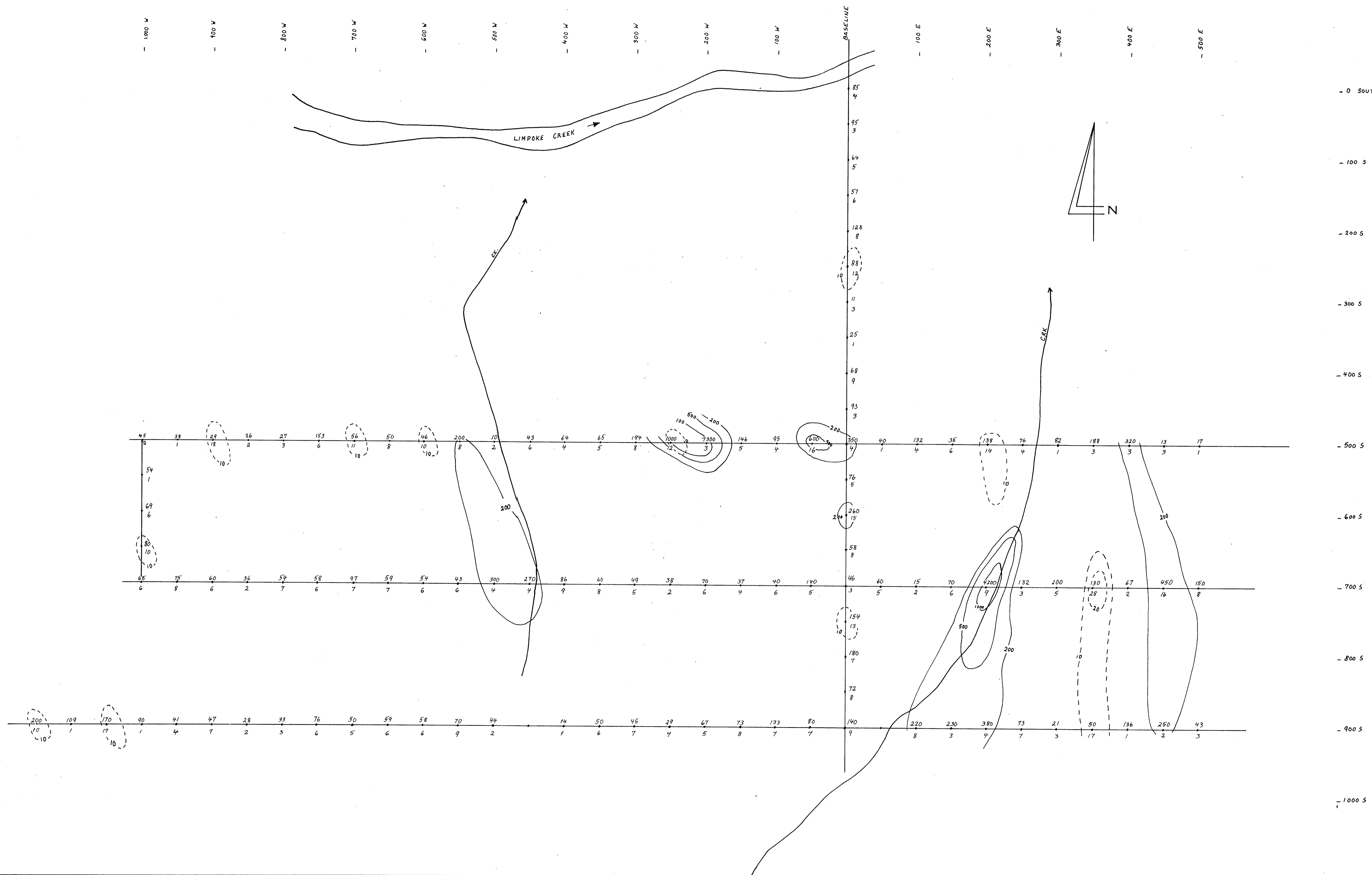
A .50 gram sample is digested hot with 10 mls 5% oxalic acid solution. The oxalic acid will dissolve Fe and Mn from their oxides of the -1 fraction (but not from magnetite & ilmenite) limonites and clays. The following metals are analysed by atomic absorption : Cu, Zn, Pb, Ni, Mo, Fe & Mn.

Cold HCl Acid Extraction

A .50 gram sample is leached with 10 ml 5% HCl solution at room temperature for 2 hours with occasional shaking. Copper is dissolved from the organic and surface layers of clay fractions.

EDTA Extraction

A .50 gram sample is leached at room temperature for 4 hours with 10 mls of 2.5% EDTA solution.



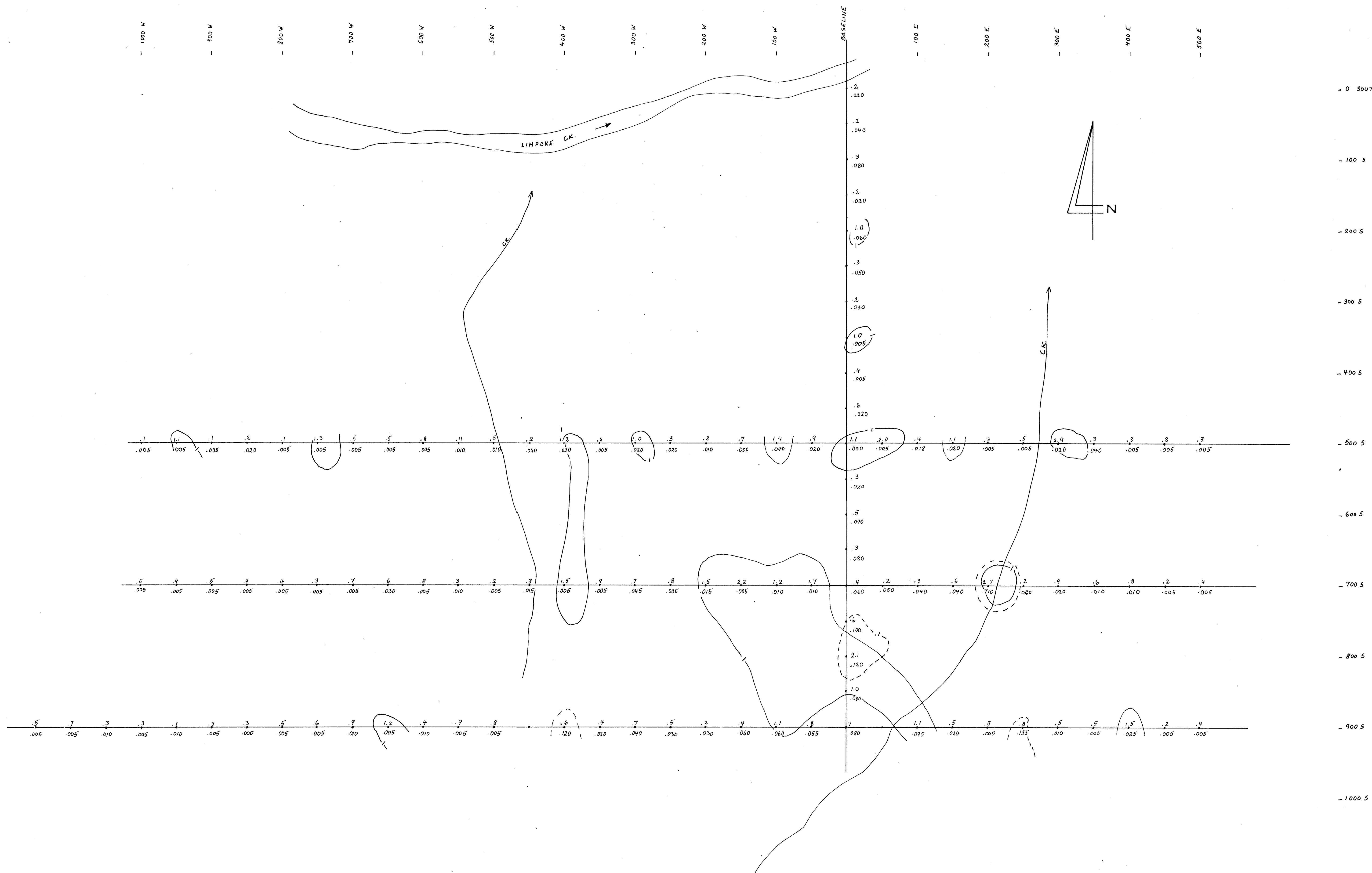
TECK EXPLORATIONS LTD  
 STIKINE REGION  
 LIMP # 2 CLAIM

SOIL GEOCHEMISTRY:  
 Mo / Cu ppm.  
 MO - - - - CONTOUR @ 10 ppm.  
 CU - - - - CONTOUR @ 200 ppm.  
 150 Cu values  
 8 Mo values

SCALE 1 : 2 500  
 0 50 100 150 200 250 m

FIG. 3





TECK EXPLORATIONS LTD  
 STIKINE REGION  
 LIMP # 2 CLAIM

SOIL GEOCHEMISTRY:  
 Ag / Au ppm.  
 AG ——— CONTOUR @ 1 ppm.  
 AU - - - - CONTOUR @ .1 ppm.  
 .5 AG value  
 .005 AU value

SCALE 1 : 2 500  
 0 50 100 150 200 250 m

FIG. 4

9092