

LOG NO:	MAR 12 1993	RD.
ACTION:		
FILE NO:		

Soil Geochemical Assessment Report

YN Claims

NTS 94F/11

Omineca Mining Division

Latitude: 57° 35' N Longitude 125° 12' W

Owner: Ecstall Mining Corporation

Operator: Minnova Inc.

YN92 A Group

YN 1  
 YN 2  
 YN 4  
 YN 5  
 Noel 1  
 Noel 3

YN92 B Group

YN 3  
 YN 5  
 YN 6  
 YUEN 1  
 YUEN 2  
 YUEN 3  
 YUEN 4

SEARCHED  
 SERIALIZED  
 INDEXED

**GEOLOGICAL BRANCH  
 ASSESSMENT REPORT**

**22,823**

G. S. Wells

Minnova Inc.

November 1992

Vancouver, B.C.

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Soil Geochemical Assessment Report  
YN Claim Group

1. INTRODUCTION

Minnova acquired an option on the Yuen and Noel claims from Ecstall Mining Corporation in June, 1992. An additional six claims, totalling 87 units were staked in May and July, 1992 to consolidate the ground position in the area. The claim group which is located immediately northwest of the Stronsay Pb-Zn deposit was acquired to assess its potential for hosting a SEDEX-style Ba-Pb-Zn massive sulphide deposit. This report describes the results of soil geochemical surveys carried out on the YN92A and YN92B claim groups during the period of July 17<sup>th</sup> to 30<sup>th</sup>, 1992 inclusive.

a. Location, Access and Physiography

The YN claims are located in the western ranges of the Rocky Mountains, 250 km northwest of MacKenzie, B.C. (Figure 1). Fort Ware, a small native community and Fletcher Challenge's Finbow logging camp are located on the Finlay River, 30 km southwest and 35 km south of the claims respectively.

Access to the area is improving due to logging and mining activity. The nearest road is the Stronsay mine road which follows the Paul River valley located 15 km southeast of the YN claims. During the current exploration program, the property was accessed using a Pacific Western Bell 206B helicopter based at the Finbow logging camp.

Topographic relief on the YN claims is moderate to steep with elevations ranging between 1400 and 2000 metres ASL. Over half of the area is above tree line which occurs at an elevation of approximately 1700 m ASL. The alpine area is covered with grassy slopes or talus debris. Creek valleys and treed slopes are covered with a mixed forest of pine, balsam and spruce.

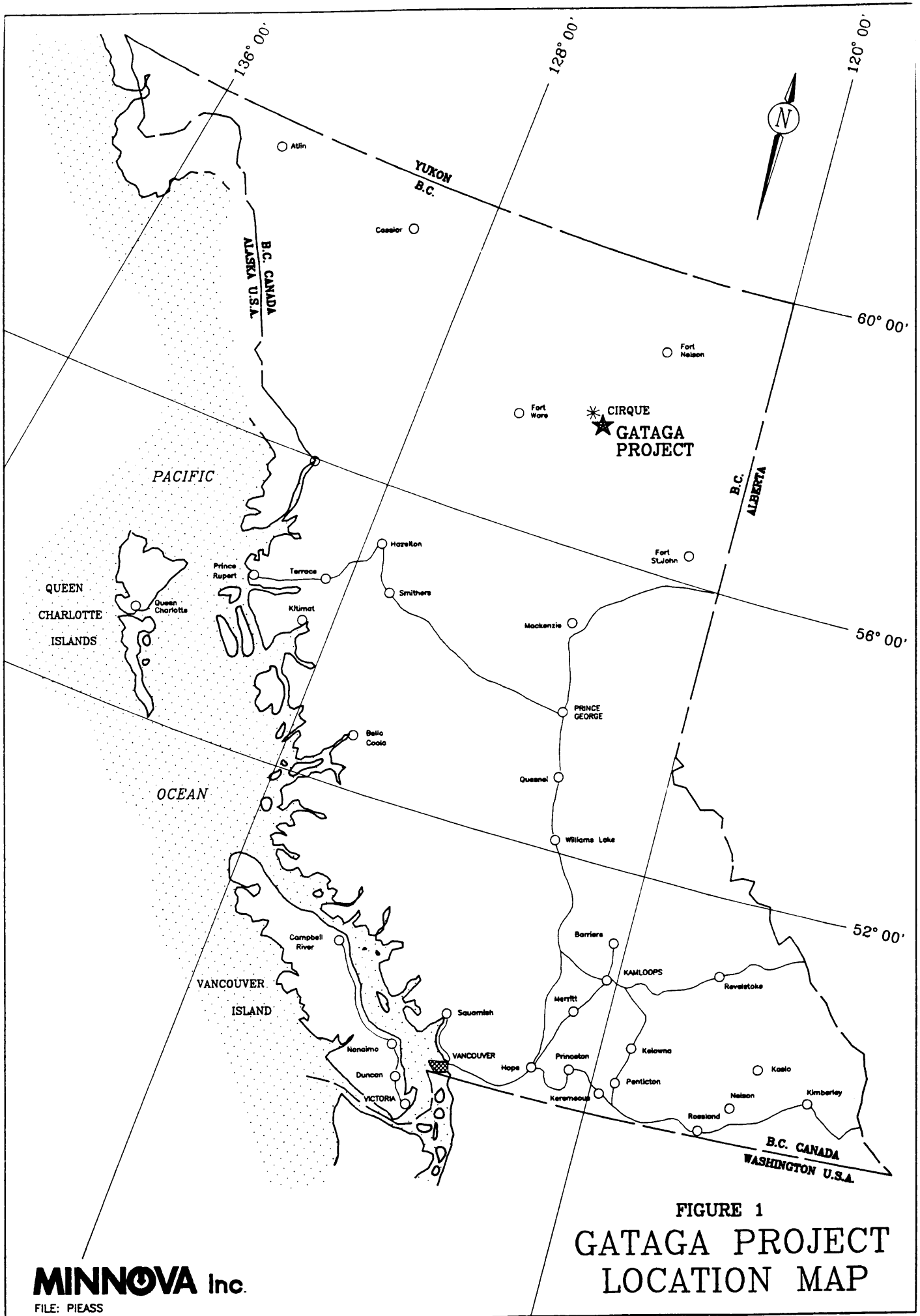


FIGURE 1  
**GATAGA PROJECT  
 LOCATION MAP**

b. Mineral Rights

The soil sampling was carried out on the YN 1, 2, 4, 5, 6, Noel 1, 3 and Yuen 2 and 4 claims. The claims have been divided into two groups - the YN92A group and the YN92B group (Figure 2). The status of these claims is as follows:

<u>Claim</u>	<u>Title Number</u>	<u># of Units</u>	<u>Month of Record</u>
<u>YN92A Group</u>			
YN 1	309110	9	May
YN 2	309111	20	May
YN 4	309113	9	May
YN 5	309114	20	May
Noel 1	240794	2	June
Noel 3	240796	1	June
		--	
		61	
<u>YN92B Group</u>			
YN 3	309112	20	May
YN 5	309114	20	May
YN 6	311790	9	July
YUEN 1	240798	4	June
YUEN 2	240799	4	June
YUEN 3	240800	1	June
YUEN 4	240801	8	June
		--	
		66	

c. Previous Work

The ground presently covered by the YN92A and B claim groups was initially staked by Rio Canex in 1978 following a regional exploration program and subsequent to the discovery of Pb-Zn-Ba mineralization on the Cirque claims by Cyprus Anvil and Hudson Bay Oil and Gas. During the period 1978 to 1982, geological, soil geochemical (Pb-Zn-Ag) and geophysical (HLEM) surveys were carried out over the claim group. Several zones of anomalous Pb values were outlined and several bedded or blebby

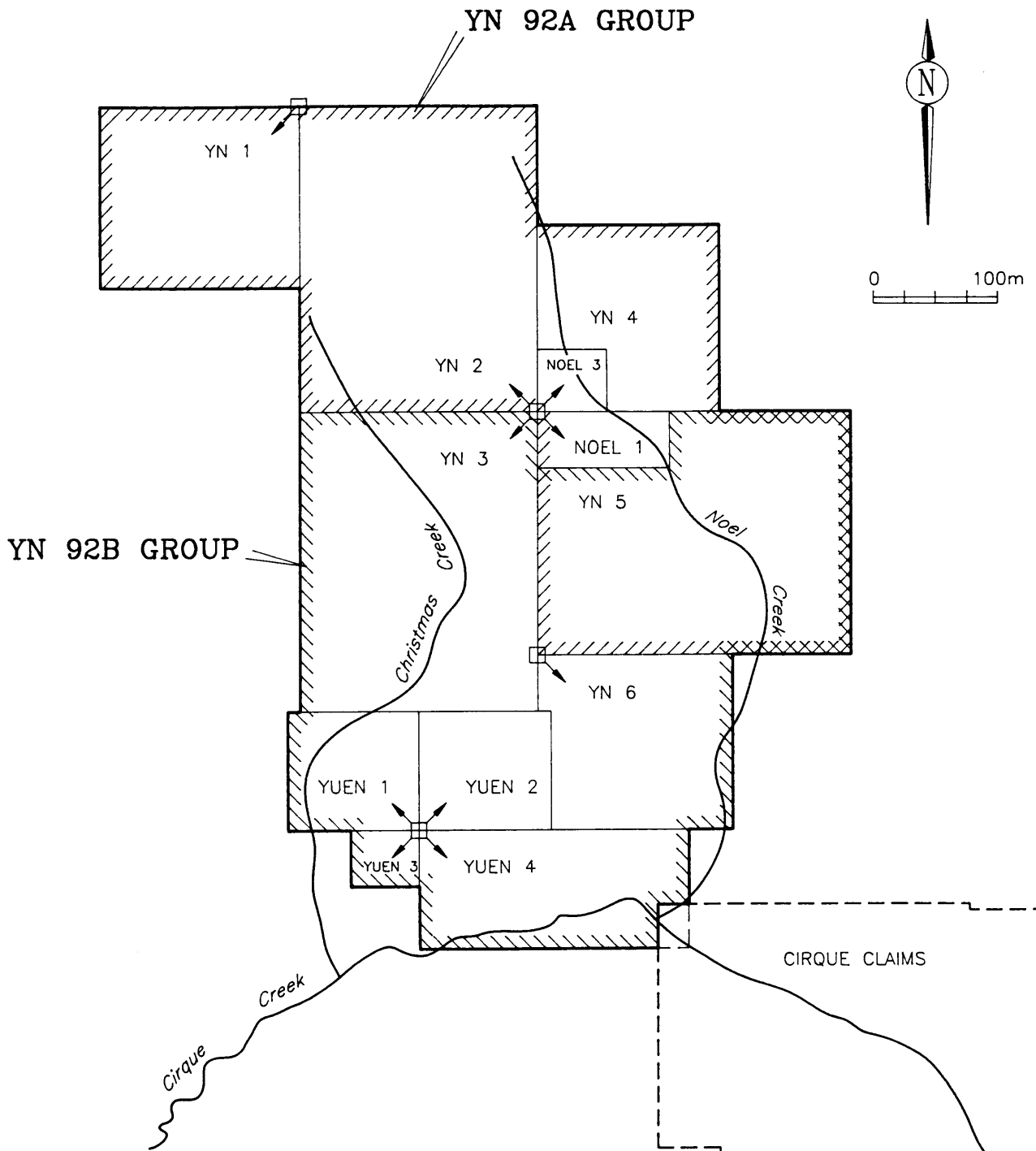


FIGURE 2  
 GATAGA PROJECT – YN CLAIMS  
 YN 92A, YN 92B GROUPS  
 CLAIM MAP  
 GSW/sg    NTS 94F/11    OCT.1992

barite occurrences were discovered. No drilling or trenching has been done to test these features. Since 1982 there has been little or no work done on the claim group.

The most recent government mapping in the area is D. A. MacIntyre's (1980) 1:125,000 scale map which covers the area between Driftpile Creek and the Akie River.

## 2. GEOLOGY

### a. Regional

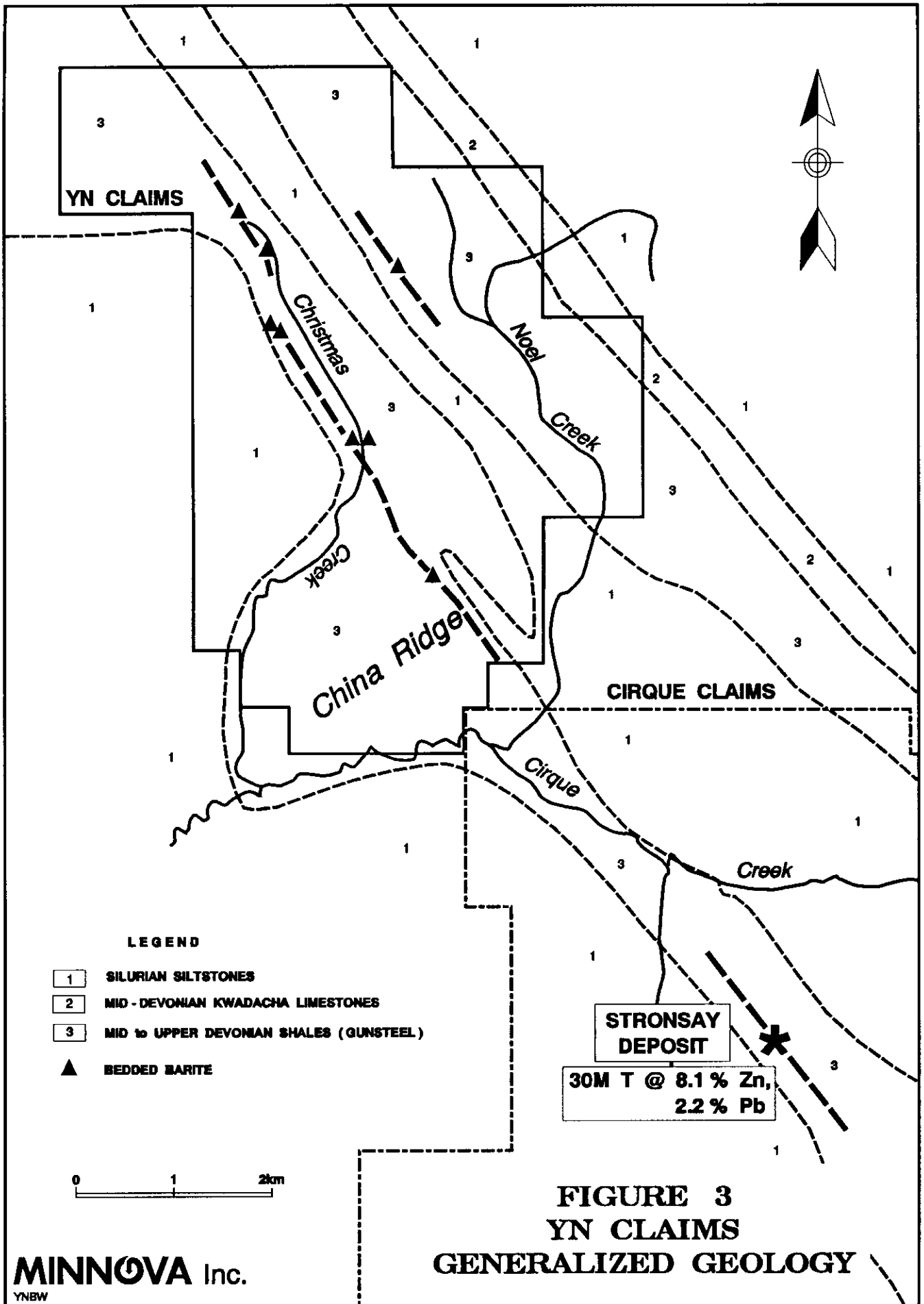
The YN claims occur on the northeastern margin of the Kechika Trough which is the southeastern extension of the Selwyn Basin - a 1200 km belt of sediments which formed off the western edge of ancestral North America. The Kechika Trough is a 180 km long, northwesterly trending belt of Early Cambrian to Triassic sediments which occur in a number of southwest dipping thrust fault slices. A detailed review of the stratigraphy and descriptions of the various formations is given by MacIntyre (1992).

Exploration activity in the area has concentrated on stratiform barite - sulphide showings which are hosted in Devonian shales. Notable occurrences in the belt include Driftpile, Mt. Alcock, Elf and Cirque. The most developed prospect is the Cirque deposit which contains an estimated 30 m Tonnes @ 8.1% Zn and 2.2% Pb.

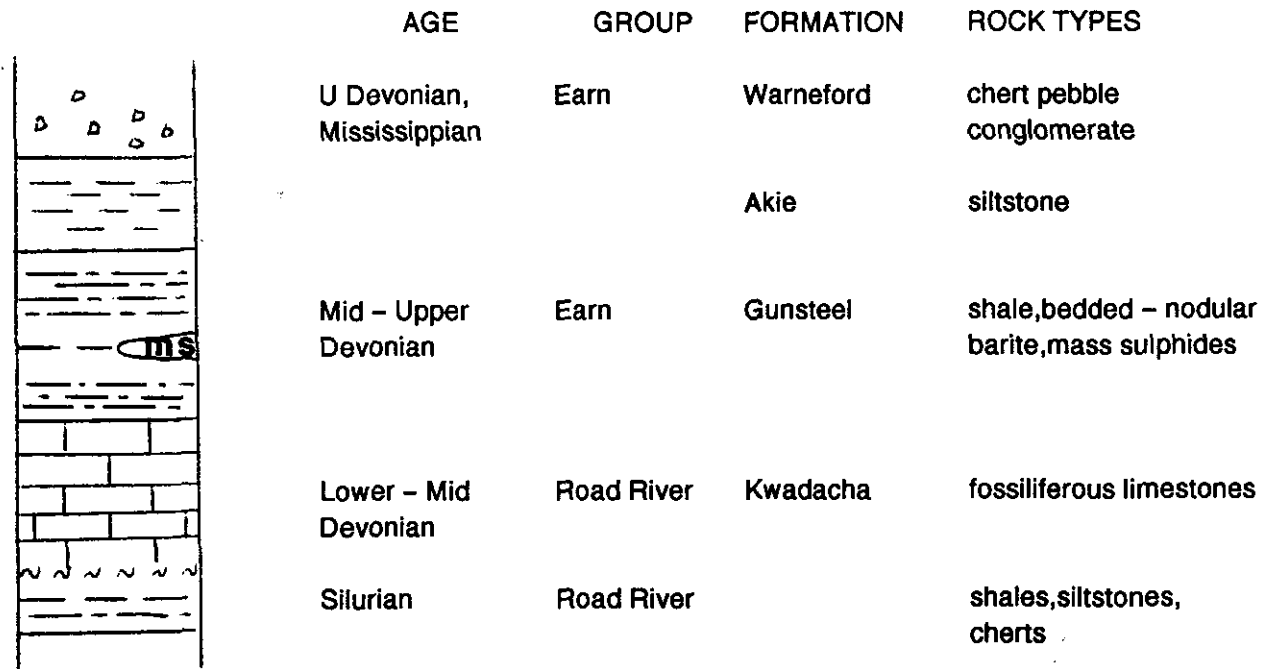
### b. Local

The YN claims have been mapped at a 1:10,000 scale by J. Thompson (1980) and R.C. Carne (1982). A generalized view of the geology and a stratigraphic column are presented in Figures 3 and 4 respectively. The claim block is underlain by two parallel, northwesterly trending panels of recessive weathering, Devonian shales which are overlain by brownish orange weathering Silurian to Ordovician siltstones and shales. A bedded and blebby barite





**FIGURE 4 : GENERALIZED STRATIGRAPHY – SOUTH GATAGA AREA**  
(after MacIntyre 1992)



horizon is exposed over a 4.2 km strike length in the southwestern panel. This zone is interpreted as the strike extension of the Stronsay deposit (30 m tonnes @ 8.2% Zn, 2.1% Pb) located 6 km to the southeast.

The second structural panel occurs in the Noel Creek watershed and is regionally extensive. It consists of a sequence of southwesterly dipping Silurian siltstones which overly Devonian shales and limestones. One occurrence of bedded and blebby barite was noted near the headwaters of Noel Creek.

### 3. SOIL GEOCHEMISTRY

#### a. Survey Objectives

A multi-element ICP soil survey was carried out over parts of the YN claim group:

- i. to confirm and define the location of previously defined Pb anomalies

and

- ii. to trace and define areas of anomalous metal content along barite horizons identified on the property.

#### b. Sampling Procedures

Soil samples were collected at 25 metre intervals on widely spaced (200 m+) flagged lines over previously outlined Pb anomalies and barite horizons identified in the Christmas and Noel Creek watersheds and on China Ridge. The B soil horizon was sampled. It is usually well developed and varies in colour from grey to brownish grey. Sample depths ranged between 5 and 20 cm below the surface. Samples varying in size between 300 and 500 grams were placed in Kraft paper bags, labelled with sample locations. The filled bags were dried in the field and then sent to IPL Labs in Vancouver for analysis. Each sample was analyzed

for Cu, Pb, Zn, Ag, Cd, Fe, Mn and Ba using an ICP technique. Laboratory procedures for sample preparation and analysis are included in Appendix I.

Analytical certificates are included in Appendix II and the data is plotted at a 1:5000 scale on Figures 5a - d. Statistical data for soil sampling on the YN and AKIE claim groups is presented in Table 1. Frequency histograms were generated for each element to determine the type of population distribution (normal or log normal). Anomalous values are those greater than mean plus two standard deviations for normal populations or geometric mean plus two standard deviations for log normal populations.

c. Results

i. China Ridge Grid

East Half

Four lines spaced at 200 meter intervals were sampled (Figures 5a-d). The area is underlain by Devonian shales and Silurian siltstones. A bedded barite horizon outcrops near line 50N, 5+75E. Metal values on this part of the China Ridge grid are generally low. There are no zones of anomalous Pb, Zn, Cu, Mn, Fe, Ba and Ag. A weak zone of Cd enrichment occurs on lines 48N, 50N and 52N.

West Half

Four lines (46N-52N) which follow the western half of the northeasterly trending China Ridge were sampled. The original 1980 baseline was located and used as control for turning off the lines. The outcrop exposure in this area is poor as it is almost entirely below tree line. Pits dug for the soil samples contained abundant

**Table 1 : YN and AKIE SOIL SAMPLES – STATISTICAL DATA**

ELEMENT	UNITS	N	MINIMUM	MAXIMUM	DISTRIBUTION	MEAN	STANDARD DEVIATION	ANOMALOUS VALUES
Ag	ppm	681	0.05	4.2	normal	0.41	0.38	1.17
Ba	ppm	686	296	23406	log normal	2270	1.78	7211
Cd	ppm	687	0.05	38	normal	0.39	0.78	1.95
Cu	ppm	694	3	217	log normal	19.5	1.82	65
Fe	%	692	0.26	30.08	normal	2.21	1.25	4.71
Mn	ppm	689	6	8193	log normal	119	3	1071
Pb	ppm	690	1	382	log normal	24.7	2.12	110.6
Zn	ppm	686	14	16101	log normal	135.2	2.04	561

YN,AKIE soils,november,1992/gsw

shale talus and the area is interpreted to be underlain by Devonian shales.

#### **Pb**

Two wide zones of weak Pb enrichment have been identified. A 25 to 100 meter wide zone occurs near BL0 and a wider (200-450 m) second zone covers the western half of the lines.

#### **Zn**

Zinc values for this part of the China Ridge grid are generally low. One zone (25-100 m wide) of anomalous zinc was identified within the western zone of Pb enrichment. There is coincident Ba, Ag and Cd anomalies associated with this zinc enrichment.

#### **Ba**

Three zones of barium enrichment are present on the China Ridge west grid. Anomaly A occurs near the baseline and has associated spotty Pb and Ag. This 25 metre to 125 meter wide zone appears to improve to the south. Anomaly B which occurs near the western ends of lines 48N-52N varies in width from 100-150 meters and appears to be open to the north. The anomaly is associated with a zone of Zn, Pb, Cd enrichment and isolated Ag highs. Anomaly C is a 50 meter wide zone of Ba enrichment which is open along strike. These are coincident Ag and Pb soil anomalies with this zone.

#### **Ag**

Isolated anomalous Ag values are closely associated with areas of Ba enrichment as described above

#### **Cd**

A 100 - 150 meter wide zone of Cd enrichment located near the western ends of lines 48N and 50 N is coincident with zones of Pb, Zn, Ba and Ag enrichment.

### **Cu, Mn, Fe**

Copper, manganese and iron contents of the soils on the western part of the China Ridge grid are generally low. A few isolated anomalous values are present but no zones of Cu, Mn or Fe enrichment have been defined.

#### ii. Noel Creek Grid

Seven lines spaced at 200 meter intervals were sampled in the Noel creek watershed. A baseline established along the ridge between Noel and Christmas creeks was used for control. The first 100 meters of each line is underlain by Silurian siltstones and the remaining eastern portion of each lines is underlain by Devonian shales. A bedded barite occurrence is located near 75+50S, 3+00E.

Metal contents of the soils on the Noel grid are generally low. Several isolated anomalous sampled are present but the most continuous zone of anomalous values is located at the eastern end of all the lines. This 50 to 100 meter wide zone has anomalous Pb, Zn, Cd, Cu, Fe, and Ag values.

#### iii. Xmas Creek A grid

The Xmas Creek A grid was sampled to cover the strike extent of a barite horizon identified near the headwaters of Christmas Creek. No significant soil anomalies were detected.

#### iv. Xmas Creek B grid

Two lines of contour soils were done in the valley located immediately northwest of the Christmas creek watershed. A rusty red coloured creek drains the area which is underlain by Gunsteel shales. One line of soil surveying was done at the 1800 m elevation and the second line followed the 1700 m contour.

Metal values of the soils on these traverses are generally low. Spotty, isolated anomalous values are present but

the only area with a concentration of these highs occurs near the eastern end of the 1800 m traverse. This area has anomalous Zn, Cu, Cd, Fe and Mn values.

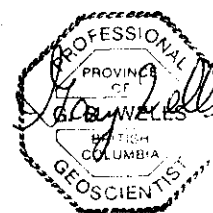
#### 4. CONCLUSIONS AND RECOMMENDATIONS

Soil surveys were completed on four small grids on the YN92A and YN92B claims groups. A total of 558 samples were collected and analysed for a multi-element package (Pb, Zn, Ag, Cd, Ba, Cu, Fe, Mn) using an ICP analytical method at IPL Labs in Vancouver.

Several geochemical anomalies were defined by this survey. The multi-element soil anomalies on the western part of the China Ridge grid are interpreted as expressions of mineralized baritic horizons. Further soil surveying is necessary to assess the lateral extent of these anomalies and diamond drilling or trenching is recommended to test the existing anomalies.

The multi-element soil anomaly defined at the eastern edge of the Noel creek grid lines is interpreted to be due to a mineralized horizon. Prospecting and/or diamond drilling is recommended to evaluate this anomaly.

No significant anomalies were found on the Xmas A and B grids. The barite horizon exposed in a narrow gully on the Xmas A grid has no apparent geochemical signature. This may be due to talus debris cover over the zone.





5. COST STATEMENTClaim Group YN92 A

filed for \$ 9,715

-work done on claims YN 1, 2, 4, Noel 1, 3

1. Salaries

M. Lorimer	4 days @ \$125/day	\$500
S. McCallum	4 days @ \$125/day	\$500
S. Blower	1 day @ \$300/day	\$300
G. S. Wells	2 days @ \$350/day	\$700

2. Transportation

Truck rental and gas	\$400
Helicopter charter 5 hrs @ \$800/hr	\$4000
Air Service - McKenzie-Finbow (pro-rated crew mob-demob + sample shipments)	\$350

3. Accommodation/food at Finbow Camp

13 man days @ \$75/day (includes helicopter pilot)	\$975
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4. Analyses

290 samples @ \$6.00/sample	\$1740
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5. Drafting

S. Gokool 1 day @ \$150/day	\$150
computer + plotting time	\$100

TOTAL	----- \$ 9,715
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Claim Group YN92 B

filed for \$ 10,600

-work done on claims YN 5, 6, Yuen 2, 4

1. Salaries

M. Lorimer	4 days @ \$150/day	\$500
S. McCallum	4 days @ \$150/day	\$500
S. Blower	1 day @ \$300/day	\$300
G. S. Wells	3 days @ \$350/day	\$1050

2. Transportation

Truck rental and gas		\$400
Helicopter charter 3.8 hrs @ \$800/hr		\$3040
Air Service - McKenzie-Finbow (pro-rated crew mob-demob + sample shipments)		\$350

3. Accommodation/food at Finbow Camp

14 man days @ \$75/day (includes helicopter pilot)		\$1050
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4. Analyses

268 samples @ \$6.00/sample		\$1608
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5. Drafting

S. Gokool 1 day @ \$150/day		\$150
computer + plotting time		\$100

Total	\$9,048
PAC withdrawal	\$1,552
	-----
TOTAL	\$10,600

6. REFERENCES

Carne, R.C. 1982: Final Report - 1982 Field Program by Sikanni Project on the Pie, Yule and Sic claims, N.E. B.C. Riocanex report.

MacIntyre, D.G. 1992; Geological setting and genesis of sedimentary exhalative barite and barite-sulphide deposits, Gataga district, northeastern British Columbia. Exploration and Mining Geology Vol. 1 pp. 1-20.

MacIntyre, D.G. 1980: Driftpile Creek - Akie River Project, B.C.M.E.M.P.R. Geological Fieldwork, 1979, Paper 1980-1 pp 55-67.


Thompson, J. 1980: Geology map - Yule Claims 1:10,000. Riocanex report.

8. STATEMENT OF QUALIFICATIONS

I, Gary S. Wells, hereby certify that:

1. I hold an Honours Bachelor of Science degree in combined geology and chemistry (1975) from Carleton University, Ottawa, Ontario and a Ph.D degree in geology (1980) from Queen's University, Kingston, Ontario.
2. I am an associate member of the Geological Association of Canada and a member of the Canadian Institute of Mining and Metallurgy.
3. I have practised by profession in exploration continuously since graduation in 1980.
4. I am registered as a professional geoscientist by the Association of Professional Engineers and Geoscientists of British Columbia.

Date: *March 5/93*

The seal is a circular emblem with a scalloped border. The text 'PROFESSIONAL' is at the top, 'PROVINCE OF' is in the middle, and 'BRITISH COLUMBIA' is at the bottom. A signature 'Gary S. Wells' is written across the center. Below the seal, the text 'Gary S. Wells P. Geo' and 'Vancouver, B. C.' is printed.

Gary S. Wells P. Geo  
Vancouver, B. C.

Appendix I

Sample Preparation and Analytical Procedures



2036 Columbia Street  
Vancouver, B.C.  
Canada V5Y 3E1  
Phone (604) 879-7878  
Fax (604) 878-7898

### Method of sample preparation for Soil or Silt

- (a) Water content in sample is removed by convection in a low temperature dryer ( $T < 60$  Degrees C.).
- (b) Dried samples are passed through an 80 mesh sieve. The minus 80 mesh fraction is transferred to a new bag for subsequent analyses. The plus 80 mesh fraction is discarded unless otherwise instructed.
- (c) If an insufficient amount of sample is less than 80 Mesh, the entire sample is passed through a 35 Mesh screen. The -35 Fraction is then pulverized and used as the portion for analyses.

### QUALITY CONTROL

Cross contamination is minimized by constant cleaning of preparation equipment with high velocity compressed air. Ring pulverizers are cleaned with a quartz sand charge.



INTERNATIONAL PLASMA LABORATORY LTD

2036 Columbia Street  
Vancouver, B.C.  
Canada V5Y 3E1  
Phone (604) 879-7878  
Fax (604) 879-7888

### Method of ICP Multi-element Analyses

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- (a) 0.50 grams of sample is digested with diluted aqua regia solution by heating in a hot water bath for 90 minutes, then cooled, bulked up to a fixed volume with demineralized water, and thoroughly mixed.
- (b) The specific elements are determined using an Inductively Coupled Argon Plasma spectrophotometer. All elements are corrected for inter-element interference. All data are subsequently stored onto computer diskette.
- \* Aqua regia leaching is partial for  
Al, Ba, Ca, Cr, K, La, Mg, Na, Sc, Sn, Sr, Th, Ti, W and Zr.

### QUALITY CONTROL

The machine is first calibrated using six known standards and a blank. The test samples are then run in batches.

A sample batch consists of 38 or less samples. Two tubes are placed before a set. These are an Inhouse standard and an acid blank, which are both digested with the samples. A known standard with characteristics best matching the samples is chosen and placed after every fifteenth sample. After every 38th sample (not including standards), two samples, chosen at random, are reweighed and analysed. At the end of a batch, the standard and blank used at the beginning is rerun. The readings for these knowns are compared with the pre-rack knowns to detect any calibration drift.

Appendix II

Analytical Certificates



iPL Report: 9200591 M Minnova Canada  
 Project: 677

In: Aug 05, 1992  
 Out: Aug 10, 1992

255 Soil

Page 2 of 4

Section 1 of 1  
 Certified BC Assayer


*[Signature]*  
 David Chiu

Sample Name	Ag	Cu	Pb	Zn	Cd	Ba	Mn	Fe	Sample Name	Ag	Cu	Pb	Zn	Cd	Ba	Mn	Fe
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
L 4+00N 3+25E	S 1.5	35	59	88	<0.1	1907	40	2.35	L17+00N 17+75W	S <0.1	11	28	33	<0.1	1977	43	0.62
L 4+00N 3+50E	S 1.3	16	31	78	<0.1	1115	44	1.37	L17+00N 18+00W	S 0.3	24	37	111	<0.1	3945	95	1.67
L 4+00N 3+75E	S 0.4	13	32	103	<0.1	1190	41	1.21	L17+00N 18+25W	S 0.1	24	31	99	<0.1	4286	44	1.36
L 4+00N 0+25W <i>AKie</i>	S 0.8	77	46	407	2.1	4988	1275	5.91	L17+00N 18+50W	S 0.2	21	43	80	<0.1	5431	49	1.59
L 4+00N 0+25W <i>PC</i>	S 0.4	18	26	79	<0.1	1111	57	1.47	L17+00N 19+00W	S 0.7	81	46	356	0.5	5045	226	4.75
L 4+00N 0+50W	S <0.1	13	17	75	<0.1	1260	54	1.22	L17+00N 19+25W	S 0.5	31	44	147	<0.1	5836	60	2.23
L 4+00N 0+75W	S 0.5	19	37	137	<0.1	1729	115	2.56	L17+00N 19+50W	S 0.8	31	45	108	<0.1	5461	57	2.55
L 4+00N 1+25W	S 0.2	27	23	165	<0.1	1639	57	1.98	L17+00N 19+75W	S 1.2	58	37	115	<0.1	919	46	4.50
L 4+00N 1+50W	S 0.2	29	19	192	<0.1	1436	64	1.82	L18+00N 0+25W	S 1.4	66	58	397	0.2	875	457	7.33
L 4+00N 1+75W	S 0.2	10	14	72	<0.1	2010	39	0.93	L18+00N 0+50W	S 1.0	113	52	1639	15.3	4571	407	4.16
L 4+00N 2+00W <i>Pie</i>	S 0.1	11	17	53	<0.1	2922	16	0.73	L18+00N 1+00W	S <0.1	113	41	1441	1.2	1288	1664	9.25
L 4+00N 2+25W	S 2.5	61	34	2394	27.0	2779	681	6.76	L18+00N 1+25W	S <0.1	11	45	44	<0.1	2452	25	3.01
L 4+00N 2+50W	S <0.1	11	30	280	2.5	1972	1097	1.79	L18+00N 1+75W	S <0.1	6	59	47	<0.1	1975	26	0.56
L 4+00N 2+75W	S 0.1	9	33	369	0.8	1765	604	2.39	L18+00N 2+25W	S 0.1	28	46	187	0.1	3004	76	2.86
L 4+00N 3+00W	S <0.1	21	29	251	0.1	5592	57	3.11	L18+00N 2+50W	S 1.0	217	74	1946	27.5	3349	741	5.44
L 4+00N 3+25W	S <0.1	10	25	322	0.5	2255	434	2.39	L18+00N 2+75W <i>YN</i>	S 0.9	68	23	861	5.6	1110	620	2.25
L 4+00N 3+50W	S 0.2	10	21	71	<0.1	2762	24	1.05	L18+00N 3+00W <i>Xmas</i>	S 0.1	39	25	366	1.6	1168	297	1.91
L 4+00N 4+00W	S 0.3	12	23	72	<0.1	2588	29	1.10	L18+00N 3+25W <i>Creek</i>	S <0.1	19	25	82	<0.1	1033	449	1.81
L 6+00N 0+00E <i>BL</i>	S 0.9	18	38	131	0.6	1782	1292	1.69	L18+00N 3+50W <i>B</i>	S <0.1	46	25	209	0.7	1098	242	2.76
L 6+00N 0+25E	S 0.3	17	22	125	1.5	1224	603	1.56	L18+00N 4+00W	S 0.2	32	26	191	0.9	1311	269	2.06
L 6+00N 0+50E	S 0.1	18	16	174	1.8	1070	346	1.07	L18+00N 4+25W	S <0.1	24	23	161	0.5	1325	184	2.26
L 6+00N 0+75E	S 0.1	25	25	153	0.8	1496	203	1.77	L18+00N 5+75W	S 0.1	16	28	137	0.3	978	203	1.90
L 6+00N 1+00E	S 0.1	19	20	178	1.5	907	283	1.14	L18+00N 6+25W	S <0.1	16	22	113	<0.1	1074	71	1.82
L 6+00N 0+25W <i>AKie</i>	S 0.1	31	26	186	1.1	1730	400	2.28	L18+00N 6+50W	S <0.1	21	28	148	<0.1	1282	392	2.45
L 6+00N 0+50W	S 0.1	27	22	162	1.3	1444	372	1.90	L18+00N 7+25W	S <0.1	22	23	109	<0.1	1128	492	2.06
L 6+00N 0+75W	S 0.2	30	25	159	1.3	1504	382	2.03	L18+00N 7+75W	S 0.2	27	25	149	<0.1	1130	128	3.07
L 6+00N 1+00W	S 0.2	27	26	155	0.9	1539	326	2.04	L18+00N 8+25W	S 0.2	16	29	165	0.5	1378	918	1.75
L 6+00N 1+25W	S 0.1	20	23	130	0.2	1402	370	1.90	L18+00N 8+50W	S <0.1	13	26	118	<0.1	1346	572	1.69
L 6+00N 1+50W	S <0.1	22	25	130	<0.1	1642	462	2.13	L18+00N 8+75W	S 0.1	16	28	157	0.6	1233	1157	1.76
L 6+00N 1+75W	S <0.1	23	19	139	0.9	1509	338	1.83	L18+00N 9+25W	S <0.1	23	24	203	0.1	1093	165	1.77
L17+00N 15+00W	S 0.2	20	25	124	<0.1	2261	101	2.87	L18+00N 9+75W	S 0.1	18	25	159	<0.1	925	80	1.75
L17+00N 15+25W	S 0.1	20	29	121	<0.1	2259	486	1.81	L18+00N 10+00W	S 0.1	14	25	142	0.2	1141	181	1.66
L17+00N 15+50W	S 0.1	25	23	154	<0.1	2240	229	1.96	L18+00N 10+25W	S <0.1	22	25	174	0.9	1302	682	2.08
L17+00N 15+75W	S 0.1	16	30	95	<0.1	2241	52	1.59	L18+00N 10+50W	S <0.1	27	25	219	2.1	1315	284	2.22
L17+00N 16+00W	S 0.8	15	17	73	<0.1	1964	55	1.21	L18+00N 10+75W	S 0.3	30	26	80	0.5	1186	377	3.31
L17+00N 16+25W <i>YN</i>	S 0.2	19	26	171	0.9	2600	62	1.86	L18+00N 11+00W	S <0.1	30	32	212	<0.1	1060	104	2.29
L17+00N 17+00W <i>Xmas</i>	S 0.1	23	30	85	<0.1	3192	141	1.52	L18+00N 11+25W	S 0.6	37	34	265	1.3	1250	204	2.08
L17+00N 17+25W <i>Creek</i>	S 0.4	21	40	74	<0.1	3343	68	2.15	L18+00N 12+00W	S <0.1	20	28	192	0.2	1264	367	1.92
L17+00N 17+50W <i>B</i>	S 0.3	17	33	47	<0.1	2460	37	1.43	L18+00N 13+00W	S <0.1	18	24	133	0.1	1177	97	1.57

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In: Aug 05, 1992  
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Certified BC Assayer  David Chiu

Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %	Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %
L18+00N 13+50W	S <0.1	25	27	102	0.1	2082	118	1.34	L50+00N 14+25E	S <0.1	18	39	91	<0.1	2278	36	1.50
L18+00N 13+75W	S 0.2	41	24	230	1.6	2211	111	1.89	L50+00N 14+50E	S <0.1	12	48	85	<0.1	1497	40	1.03
L18+00N 14+00W	S <0.1	14	24	133	<0.1	1665	223	1.38	L50+00N 14+75E	S 0.2	13	40	78	<0.1	2447	34	1.06
L18+00N 14+25W	S 0.5	58	36	275	<0.1	1960	72	2.51	L50+00N 15+00E	S <0.1	14	57	97	<0.1	1821	45	1.37
L18+00N 14+50W	S <0.1	13	22	71	<0.1	1141	50	1.07	L52+00N 10+25E	S 0.2	12	24	81	<0.1	6023	20	1.65
L18+00N 14+75W	S <0.1	11	26	51	<0.1	1468	32	1.00	L52+00N 10+50E	S <0.1	9	19	75	<0.1	2434	67	1.21
L18+00N 15+00W	S 0.2	30	31	150	<0.1	2652	105	3.48	L52+00N 10+75E	S 0.2	7	15	41	<0.1	2346	19	0.47
L18+00N 15+25W	S <0.1	15	28	63	<0.1	5957	44	1.32	L52+00N 11+00E	S <0.1	8	24	71	<0.1	1626	24	0.63
L18+00N 15+50W	S <0.1	24	28	121	<0.1	3987	50	1.59	L52+00N 11+25E	S 0.4	17	42	129	<0.1	2058	34	1.50
L18+00N 15+75W	S 0.7	14	44	86	<0.1	2639	88	2.27	L52+00N 11+50E	S 0.3	12	25	118	<0.1	2123	44	1.14
L18+00N 16+00W	S 0.2	21	36	103	<0.1	2379	63	1.84	L52+00N 11+75E	S <0.1	16	27	142	<0.1	2851	33	1.36
L18+00N 16+25W	S 0.4	21	31	133	<0.1	2024	85	1.82	L52+00N 12+00E	S 0.1	5	46	31	<0.1	1161	24	0.28
L18+00N 16+75W	S <0.1	21	33	109	<0.1	2467	94	1.53	L52+00N 12+25E	S 0.1	13	32	124	<0.1	1538	33	1.07
L18+00N 17+00W	S 0.2	20	35	60	<0.1	2733	62	1.46	L52+00N 12+50E	S <0.1	10	31	91	<0.1	1558	29	0.90
L18+00N 17+25W	S 0.4	28	41	75	<0.1	3013	38	2.39	L52+00N 12+75E	S 0.1	21	39	176	<0.1	1962	75	2.28
L18+00N 17+75W	S 0.2	43	37	134	<0.1	5724	438	1.85	L52+00N 13+00E	S 0.2	6	20	41	<0.1	1421	27	0.50
L18+00N 18+00W	S 0.2	29	36	126	<0.1	5122	47	1.88	L52+00N 13+25E	S 0.3	13	35	129	<0.1	1863	37	1.32
L18+00N 18+25W	S 0.3	39	34	137	<0.1	4841	39	1.75	L52+00N 13+50E	S 0.1	6	19	21	<0.1	1281	24	0.39
L18+00N 18+50W	S 0.4	30	38	111	<0.1	5210	92	1.94	L52+00N 13+75E	S <0.1	10	25	80	<0.1	1419	29	0.91
L18+00N 18+75W	S 0.4	27	33	121	<0.1	4913	64	1.99	L52+00N 14+00E	S <0.1	14	25	66	<0.1	1898	35	0.85
L18+00N 19+00W	S 0.2	19	36	80	<0.1	5027	46	1.73	L52+00N 14+25E	S 0.5	33	63	148	<0.1	7478	25	2.07
L18+00N 19+50W	S 0.4	27	29	81	<0.1	4943	19	2.07	L52+00N 14+50E	S 0.2	15	43	140	<0.1	1633	65	1.72
L18+00N 19+75W	S 1.7	46	31	154	<0.1	794	40	3.94	L52+00N 14+75E	S <0.1	10	16	124	<0.1	1524	41	1.00
L18+00N 20+00W	S 0.7	41	33	335	4.4	3344	321	2.07	L52+00N 15+00E	S 0.2	18	42	97	<0.1	2363	71	1.94
L50+00N 10+25E	S 0.3	21	29	75	<0.1	2813	44	1.85	L54+00N 4+50E	S <0.1	10	19	102	<0.1	1602	63	1.07
L50+00N 10+50E	S 0.2	23	33	99	<0.1	3581	54	2.36	L54+00N 5+00E	S <0.1	9	19	90	<0.1	1509	59	0.94
L50+00N 10+75E	S <0.1	20	28	182	0.5	2284	253	1.79	L54+00N 5+50E	S <0.1	11	20	103	<0.1	1240	56	1.08
L50+00N 11+00E	S 0.5	19	35	84	<0.1	4603	38	1.74	L54+00N 5+75E	S <0.1	13	26	142	<0.1	1415	95	1.73
L50+00N 11+25E	S 0.2	13	25	56	<0.1	3275	33	1.16	L54+00N 7+00E	S <0.1	20	26	225	<0.1	920	66	1.88
L50+00N 11+50E	S 0.8	13	32	89	<0.1	2249	61	1.16	L54+00N 7+25E	S 0.1	14	22	118	0.6	1233	441	0.94
L50+00N 11+75E	S <0.1	9	20	53	<0.1	1603	30	0.74	L54+00N 7+50E	S <0.1	14	25	185	0.6	1846	133	1.35
L50+00N 12+00E	S 0.4	11	39	47	<0.1	4044	27	0.99	L54+00N 7+75E	S 0.1	12	21	99	0.4	1196	33	0.61
L50+00N 12+25E	S <0.1	9	22	35	<0.1	1587	25	0.52	L54+00N 8+00E	S <0.1	15	25	151	<0.1	1416	140	1.41
L50+00N 12+50E	S 0.2	6	19	16	<0.1	1795	35	0.39	L54+00N 8+25E	S <0.1	12	27	237	1.8	1756	352	1.54
L50+00N 12+75E	S 0.1	13	39	70	<0.1	2775	34	1.23	L54+00N 8+50E	S <0.1	12	31	220	<0.1	2081	52	1.33
L50+00N 13+00E	S <0.1	13	38	92	<0.1	2802	38	1.24	L54+00N 8+75E	S 0.2	9	26	57	<0.1	1497	25	0.57
L50+00N 13+50E	S 0.3	13	31	94	<0.1	2270	24	1.05	L54+00N 9+00E	S <0.1	22	22	125	<0.1	1762	36	1.28
L50+00N 13+75E	S <0.1	10	37	56	<0.1	1889	40	1.02	L54+00N 9+25E	S 0.1	10	21	111	<0.1	2048	36	0.88
L50+00N 14+00E	S <0.1	11	41	57	<0.1	2662	22	0.71	L54+00N 10+00E	S 0.1	25	31	155	0.4	3376	38	1.80

YN  
Xmas  
Creek  
B

YN China Ridge

YN  
China  
Ridge

Min Limit 0.1 1 2 1 0.1 2 1 0.01 0.1 1 2 1 0.1 2 1 0.01  
 Max Reported\* 99.9 9999 9999 9999 99.9 9999 9999 99.99 99.9 9999 9999 9999 99.9 9999 9999 99.99  
 Method ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP  
 ---No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=PuLP U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate  
 International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



2036 Columbia Street  
 Vancouver, B.C.  
 Canada V5V  
 Phone (604) 879-7878  
 Fax (604) 879-7898

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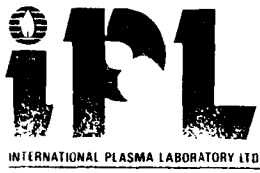
Section 1 of 1  
 Certified BC Assayer

David Chiu

Sample Name	Ag	Cu	Pb	Zn	Cd	Ba	Mn	Fe	Sample Name	Ag	Cu	Pb	Zn	Cd	Ba	Mn	Fe
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
L54+00N 10+25E	S 0.1	18	29	131	<0.1	2415	34	1.42									
L54+00N 10+50E	S 0.2	8	14	26	<0.1	2086	24	0.46									
L54+00N 10+75E	S 0.1	9	14	36	<0.1	2689	38	0.66									
L54+00N 11+00E	S 0.3	14	12	51	<0.1	2340	34	0.85									
L54+00N 11+25E	S <0.1	17	15	132	<0.1	2986	33	1.27									
L54+00N 11+50E	S 0.3	12	16	59	<0.1	1917	26	0.78									
L54+00N 11+75E	S 0.2	9	16	131	<0.1	1819	39	0.77									
L54+00N 12+00E	S 0.1	8	22	51	<0.1	1748	35	0.77									
L54+00N 12+25E	S <0.1	7	14	19	<0.1	1964	22	0.36									
L54+00N 12+50E	S 0.9	16	26	96	<0.1	2141	30	1.46									
L54+00N 12+75E	S <0.1	12	18	67	<0.1	1921	33	1.03									
L54+00N 13+00E	S <0.1	14	15	75	<0.1	1841	23	0.94									
L54+00N 13+25E	S 0.1	18	31	144	<0.1	2059	35	1.68									
L54+00N 13+50E	S <0.1	13	20	84	<0.1	1484	38	1.22									
L54+00N 13+75E	S 0.3	79	24	673	1.5	3444	51	3.34									
L54+00N 14+00E	S <0.1	12	19	95	<0.1	2095	34	0.99									
L54+00N 14+25E	S <0.1	28	37	228	<0.1	2082	47	2.10									
L54+00N 14+50E	S <0.1	16	25	155	<0.1	1621	42	1.31									
L54+00N 14+75E	S 0.5	37	52	228	<0.1	1730	78	4.38									
L54+00N 15+00E	S 0.5	27	40	160	<0.1	2353	255	2.69									
L54+00N 5+25E	S <0.1	6	12	40	<0.1	1256	43	0.53									

YN China Ridge

Min Limit 0.1 1 2 1 0.1 2 1 0.01 0.1 1 2 1 0.1 2 1 0.01  
 Max Reported\* 99.9 9999 9999 9999 99.9 9999 9999 99.99 99.9 9999 9999 9999 99.9 9999 9999 99.99  
 Method ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP  
 ---No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 % =Estimate % Max=No Estimate  
 International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



2036 Columbia Street  
 Vancouver, B.C.  
 Canada V5Y 3E1  
 Phone (604) 879-7878  
 Fax (604) 879-7898

iPL Report: 9200552 M Minnova Canada  
 Project: 677

In: Jul 28, 1992  
 Out: Jul 31, 1992

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 Certified BC Assayer

David Chiu

Sample Name	Ag	Cu	Pb	Zn	Cd	Ba	Mn	Fe	Sample Name	Ag	Cu	Pb	Zn	Cd	Ba	Mn	Fe
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
L 46+00N 00+00W	S 0.5	23	33	60	<0.1	1860	97	1.92	L 48+00N 07+00E	S 0.5	7	15	65	<0.1	2222	54	1.51
L 46+00N 00+25W	S 3.6	42	66	85	0.3	1460	958	3.46	L 48+00N 07+25E	S <0.1	5	13	125	<0.1	1519	74	1.54
L 46+00N 00+50W	S 0.3	43	47	479	0.2	6779	299	2.60	L 48+00N 07+50E	S <0.1	3	6	49	<0.1	1402	91	0.79
L 46+00N 00+75W	S 0.6	65	136	412	<0.1	1576	77	3.28	L 48+00N 07+75E	S <0.1	10	15	280	0.9	1383	335	1.88
L 46+00N 01+00W	S 0.3	46	30	286	<0.1	1192	54	1.69	L 48+00N 08+00E	S <0.1	11	15	196	0.3	1451	357	1.79
L 46+00N 01+25W	S 1.7	40	40	84	<0.1	9775	70	2.41	L 48+00N 08+25E	S <0.1	15	17	159	0.4	1310	269	1.92
L 46+00N 01+50W	S 0.2	23	87	476	0.5	7648	170	2.26	L 48+00N 08+50E	S 0.1	36	13	502	2.2	1684	282	2.24
L 46+00N 01+75W	S 0.8	28	71	463	1.6	1.3%	622	2.67	L 48+00N 08+75E	S <0.1	6	12	167	<0.1	1285	153	1.33
L 46+00N 02+00W	S 2.6	32	71	393	1.3	9091	499	2.78	L 48+00N 09+00E	S 0.1	9	20	128	<0.1	1984	59	1.39
L 46+00N 02+25W	S 0.6	24	80	250	0.2	8636	297	2.33	L 48+00N 09+25E	S 0.2	13	12	82	<0.1	2916	29	1.22
L 46+00N 02+50W	S 0.9	15	61	198	1.0	4434	1220	2.61	L 48+00N 09+50E	S 0.4	6	12	53	<0.1	2137	48	0.91
L 46+00N 02+75W	S 1.0	19	51	210	0.4	6364	589	2.65	L 48+00N 09+75E	S 0.3	27	10	44	<0.1	2479	47	2.30
L 46+00N 03+00W	S 0.2	19	53	205	0.1	5695	286	2.44	L 48+00N 10+00E	S 1.7	24	19	71	<0.1	5745	27	1.63
L 46+00N 03+25W	S 0.1	23	60	204	0.6	6303	433	2.46	L 48+00N 0+00W	S 0.7	18	28	174	<0.1	3101	163	3.22
L 46+00N 03+50W	S 0.8	24	52	194	0.6	7420	480	2.41	L 48+00N 0+25W	S 0.1	28	36	108	<0.1	1817	180	3.43
L 46+00N 03+75W	S 1.3	37	55	198	0.3	1.0%	163	2.51	L 48+00N 0+50W	S 0.5	23	116	237	<0.1	950	535	6.51
L 46+00N 04+00W	S 1.2	21	64	269	0.4	6028	426	2.52	L 48+00N 0+75W	S 0.2	62	65	100	<0.1	810	79	2.65
L 46+00N 04+25W	S 0.6	17	54	392	1.1	3464	397	2.67	L 48+00N 1+00W	S 1.0	41	72	194	<0.1	1248	94	2.61
L 46+00N 04+50W	S <0.1	19	69	573	2.1	4822	624	3.57	L 48+00N 1+25W	S 1.7	25	47	794	1.5	5892	2630	4.39
L 46+00N 04+75W	S 0.2	17	65	398	0.5	7106	450	3.22	L 48+00N 1+50W	S 2.6	47	63	231	0.8	2.3%	754	3.54
L 46+00N 05+00W	S 0.6	17	53	275	0.7	4118	317	2.54	L 48+00N 1+75W	S 0.1	18	30	232	1.0	5245	394	2.58
L 46+00N 05+25W	S 0.1	18	63	396	1.8	5716	939	3.48	L 48+00N 2+00W	S 0.6	8	28	216	0.3	1699	936	2.43
L 46+00N 05+50W	S 1.2	23	67	285	0.2	5071	853	3.79	L 48+00N 2+25W	S 0.8	22	38	276	2.0	1921	736	2.78
L 46+00N 05+75W	S 1.3	20	88	226	0.3	3475	1018	4.83	L 48+00N 2+50W	S <0.1	9	25	251	<0.1	1842	370	2.31
L 46+00N 06+00W	S 1.2	41	34	226	1.2	3950	377	2.60	L 48+00N 2+75W	S 0.6	12	35	318	0.6	2128	450	2.41
L 46+00N 06+25W	S 0.3	25	29	185	0.4	4387	135	2.13	L 48+00N 3+00W	S 1.3	20	38	228	0.9	2580	725	2.58
L 46+00N 06+50W	S <0.1	22	<2	119	0.5	296	86	0.26	L 48+00N 3+25W	S 0.7	15	41	186	<0.1	3386	589	2.60
L 48+00N 04+00E	S <0.1	14	24	50	<0.1	1928	85	1.39	L 48+00N 3+50W	S 0.3	13	38	206	1.1	3129	890	2.35
L 48+00N 04+25E	S <0.1	30	28	122	<0.1	2450	454	2.57	L 48+00N 3+75W	S 0.1	18	39	274	0.3	3518	465	2.37
L 48+00N 04+50E	S 0.2	21	18	76	<0.1	1990	232	2.62	L 48+00N 4+00W	S 0.4	19	37	255	0.5	3375	358	2.29
L 48+00N 04+75E	S <0.1	23	15	55	<0.1	3013	178	2.49	L 48+00N 4+25W	S 0.7	25	43	277	0.5	3341	238	2.05
L 48+00N 05+00E	S 0.1	14	32	40	<0.1	1648	386	2.76	L 48+00N 4+50W	S 1.0	32	57	486	2.5	5822	404	2.36
L 48+00N 05+25E	S 0.1	35	98	333	<0.1	5591	664	2.82	L 48+00N 4+75W	S 1.2	46	42	743	4.5	7928	199	2.36
L 48+00N 05+50E	S <0.1	8	10	90	<0.1	1957	120	1.16	L 48+00N 5+00W	S 1.6	31	70	185	1.1	1.1%	778	2.57
L 48+00N 05+75E	S <0.1	15	31	280	<0.1	1926	347	2.01	L 48+00N 5+25W	S 1.0	24	54	1013	5.8	2848	601	1.57
L 48+00N 06+00E	S 0.7	8	21	23	<0.1	3067	27	1.23	L 48+00N 5+50W	S 1.7	75	117	388	1.9	2.1%	487	4.83
L 48+00N 06+25E	S 0.2	16	28	159	<0.1	2465	90	1.91	L 48+00N 5+75W	S 2.3	82	40	888	11.6	5399	190	4.17
L 48+00N 06+50E	S 0.2	9	25	73	<0.1	2608	59	1.27	L 48+00N 6+00W	S 1.1	20	63	202	1.4	3391	1065	3.00
L 48+00N 06+75E	S 0.1	5	16	31	<0.1	2013	35	0.66	L 48+00N 6+25W	S 1.0	30	40	141	<0.1	2020	309	2.44

YN China Ridge.

Min Limit 0.1 1 2 1 0.1 2 1 0.01 0.1 1 2 1 0.1 2 1 0.01  
 Max Reported\* 99.9 9999 9999 9999 99.9 9999 9999 99.99 99.9 9999 9999 9999 99.9 9999 9999 99.99  
 Method ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP  
 --No Test ins=Insufficient Sample S=Soil R=Rock C=Core I=Silt P=Pulp U=Undefined m=Estimate/1000 % =Estimate % Max-No Estimate  
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Vancouver, B.C.
Canada V5Y 3E1
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Fax (604) 879-7898

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Certified BC Assayer

David Chiu

Table with columns: Sample Name, Ag ppm, Cu ppm, Pb ppm, Zn ppm, Cd ppm, Ba ppm, Mn ppm, Fe %, and a second set of identical columns. Rows list various soil samples with their chemical compositions.

YN China Ridge

Min Limit 0.1 1 2 1 0.1 2 1 0.01
Max Reported\* 99.9 9999 9999 9999 99.9 9999 9999 99.99
Method ICP ICP ICP ICP ICP ICP ICP ICP

0.1 1 2 1 0.1 2 1 0.01
99.9 9999 9999 9999 99.9 9999 9999 99.99
ICP ICP ICP ICP ICP ICP ICP ICP

--No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=PuIp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate



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Certified BC Assayer

Signature and name: David Chiu

Table with 2 columns of data for Sample Name, Ag, Cu, Pb, Zn, Cd, Ba, Mn, Fe. Includes handwritten notes like 'YN', 'China Ridge', and 'Xmas Creek A'.

Min Limit 0.1 1 2 1 0.1 2 1 0.01
Max Reported\* 99.9 9999 9999 9999 99.9 9999 9999 99.99
Method ICP ICP ICP ICP ICP ICP ICP ICP
--No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=PuIp U=Undefined m=Estimate/1000 % =Estimate % Max=No Estimate



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 Canada V5Y 3E1  
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 Certified BC Assayer

*[Signature]*  
 David Chiu

Sample Name	Ag	Cu	Pb	Zn	Cd	Ba	Mn	Fe	Sample Name	Ag	Cu	Pb	Zn	Cd	Ba	Mn	Fe		
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%		
L 86+00N 45+75E	S	0.9	40	23	197	2.9	6774	550	5.67	L 90+00N 45+50E	S	2.1	22	61	54	<0.1	4449	36	2.09
L 86+00N 46+00E	S	0.4	25	18	142	<0.1	3345	182	3.13	L 90+00N 45+75E	S	0.8	42	17	83	<0.1	5313	42	3.48
L 86+00N 46+25E	S	0.3	20	26	121	<0.1	3267	67	2.37	L 90+00N 46+00E	S	1.1	51	19	106	0.3	5092	84	2.99
L 86+00N 46+75E	S	0.6	19	19	116	<0.1	2915	231	2.15	L 90+00N 46+25E	S	0.3	15	19	93	<0.1	3646	54	1.71
L 86+00N 47+00E	S	0.4	15	14	88	<0.1	3511	397	1.68	L 90+00N 46+50E	S	1.0	26	63	145	<0.1	3517	65	4.25
L 86+00N 47+25E	S	0.6	40	18	70	<0.1	1887	88	5.79	L 90+00N 46+75E	S	0.3	40	27	163	<0.1	3565	201	2.90
L 86+00N 47+50E	S	0.5	23	8	134	<0.1	1515	209	1.72	L 90+00N 47+00E	S	0.5	14	147	59	<0.1	1819	57	3.62
L 86+00N 47+75E	S	0.2	8	4	73	<0.1	1110	179	1.61	L 90+00N 47+25E	S	0.3	11	61	53	<0.1	2118	70	2.69
L 86+00N 48+00E	S	0.2	31	10	514	0.2	1168	547	3.99	L 90+00N 47+50E	S	0.5	14	30	101	<0.1	2202	126	2.47
L 86+00N 48+25E	S	<0.1	22	12	217	<0.1	1107	285	3.31	L 90+00N 47+75E	S	0.2	15	17	143	<0.1	2457	68	1.80
L 86+00N 48+50E	S	0.5	29	6	201	<0.1	1146	292	2.57	L 90+00N 48+00E	S	0.6	30	27	254	0.5	2314	85	2.26
L 86+00N 48+75E	S	0.1	18	3	170	<0.1	1073	140	2.08	L 90+00N 48+25E	S	0.7	26	29	206	<0.1	2384	87	3.09
L 86+00N 49+00E	S	<0.1	23	9	156	<0.1	998	159	2.61	L 90+00N 48+50E	S	0.9	53	17	434	<0.1	2468	209	4.09
L 88+00N 44+00E	S	0.6	29	27	296	0.8	1163	440	2.76	L 90+00N 48+75E	S	0.2	19	15	100	<0.1	1809	84	2.64
L 88+00N 44+25E	S	0.5	26	19	181	<0.1	1512	215	2.31	L 90+00N 49+00E	S	0.3	22	14	93	<0.1	1755	158	2.84
L 88+00N 44+50E	S	0.6	37	15	254	0.6	2882	163	2.61	L 65+50S 0+50E	S	0.2	11	13	121	<0.1	796	120	1.57
L 88+00N 44+75E	S	0.4	29	11	190	0.6	3487	83	2.19	L 65+50S 1+00E	S	<0.1	16	19	142	<0.1	948	148	2.09
L 88+00N 45+00E	S	0.6	34	11	132	0.3	3943	70	1.95	L 65+50S 1+25E	S	<0.1	15	17	154	<0.1	831	158	2.20
L 88+00N 45+25E	S	0.2	33	15	174	0.4	4017	194	2.49	L 65+50S 1+50E	S	0.9	11	21	90	0.3	971	62	1.65
L 88+00N 45+50E	S	0.4	42	14	156	<0.1	3421	130	2.85	L 65+50S 1+75E	S	0.5	25	24	128	0.9	1111	269	1.91
L 88+00N 45+75E	S	0.5	39	13	126	0.4	3019	68	2.58	L 65+50S 2+00E	S	0.5	33	22	62	0.6	1248	35	1.69
L 88+00N 46+00E	S	0.4	17	47	59	<0.1	3342	67	4.49	L 65+50S 2+25E	S	0.7	21	17	96	0.2	872	136	1.63
L 88+00N 46+25E	S	0.6	15	44	47	<0.1	628	117	5.41	L 65+50S 2+50E	S	1.4	48	16	282	1.5	1296	307	2.33
L 88+00N 46+50E	S	0.2	12	31	58	<0.1	2577	79	4.01	L 65+50S 2+75E	S	1.0	70	12	444	2.8	1438	270	2.59
L 88+00N 46+75E	S	0.7	22	34	83	<0.1	3897	116	2.68	L 65+50S 3+00E	S	0.5	22	9	147	<0.1	1554	304	3.22
L 88+00N 47+00E	S	<0.1	9	14	40	<0.1	1399	41	1.90	L 65+50S 3+25E	S	0.4	27	12	232	<0.1	1646	255	2.80
L 88+00N 47+25E	S	0.3	20	30	81	<0.1	3271	86	2.47	L 65+50S 3+50E	S	0.1	15	14	130	<0.1	1626	189	2.70
L 88+00N 47+50E	S	0.2	13	43	77	<0.1	2059	64	1.89	L 65+50S 3+75E	S	0.1	17	<2	156	<0.1	2291	99	2.18
L 88+00N 47+75E	S	0.3	13	29	120	<0.1	2574	52	1.74	L 65+50S 4+00E	S	0.4	20	13	124	<0.1	2571	2719	2.61
L 88+00N 48+00E	S	0.2	24	33	239	0.1	1771	87	2.48	L 65+50S 4+25E	S	0.3	14	8	65	<0.1	2871	44	2.32
L 88+00N 48+25E	S	1.6	35	26	223	0.7	3032	384	3.61	L 65+50S 4+50E	S	0.1	10	<2	56	<0.1	3266	84	2.33
L 88+00N 48+50E	S	0.6	28	15	68	<0.1	2353	56	2.28	L 65+50S 4+75E	S	0.1	35	9	100	<0.1	2659	137	5.45
L 88+00N 48+75E	S	<0.1	18	11	104	<0.1	1512	78	2.08	L 65+50S 5+00E	S	0.3	21	4	132	<0.1	2622	148	4.79
L 88+00N 49+00E	S	0.2	19	12	103	<0.1	1362	82	2.32	L 67+50S 0+00E	S	0.6	29	17	133	<0.1	997	292	2.21
L 90+00N 44+00E	S	0.7	34	22	285	1.0	3461	167	2.60	L 67+50S 0+25E	S	0.7	27	23	133	0.1	1035	289	2.17
L 90+00N 44+25E	S	0.3	44	11	316	0.9	4911	138	3.29	L 67+50S 0+75E	S	1.1	34	23	149	<0.1	820	189	2.43
L 90+00N 44+75E	S	0.6	54	11	185	<0.1	2981	64	3.49	L 67+50S 1+00E	S	0.5	32	20	242	0.3	883	218	2.48
L 90+00N 45+00E	S	4.0	79	9	143	2.6	5620	72	3.72	L 67+50S 1+25E	S	<0.1	15	17	139	<0.1	973	111	1.68
L 90+00N 45+25E	S	1.2	40	15	126	<0.1	3245	53	2.43	L 67+50S 1+50E	S	0.5	42	28	374	0.3	839	108	5.22

YN Xmas Creek A ↑  
 YN Noel Creek.

Min Limit 0.1 1 2 1 0.1 2 1 0.01 0.1 1 2 1 0.1 2 1 0.01  
 Max Reported\* 99.9 9999 9999 9999 99.9 9999 9999 99.99  
 Method ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP  
 ---No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate  
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 Vancouver, B.C.  
 Canada V5Y 3E1  
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 Certified BC Assayer

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Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %	Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %
L 67+50S 1+75E	S 0.8	25	44	203	<0.1	937	64	3.21	L 71+50S 2+00E	S 0.6	32	19	195	1.1	1478	124	2.39
L 67+50S 2+00E	S 0.7	20	33	125	<0.1	945	47	1.66	L 71+50S 2+25E	S 0.3	79	9	1.6E3	38.0	588	8193	30.08
L 67+50S 2+25E	S <0.1	30	11	382	1.0	1081	250	2.61	L 71+50S 2+50E	S 0.7	41	18	1455	6.4	1560	281	2.92
L 67+50S 2+50E	S 0.1	22	17	204	<0.1	1037	80	2.35	L 71+50S 2+75E	S 0.9	93	53	255	3.1	4085	4491	6.25
L 67+50S 2+75E	S 0.4	23	16	152	<0.1	5225	208	2.42	L 71+50S 3+00E	S 1.3	48	10	426	<0.1	2263	1520	9.31
L 67+50S 3+00E	S 0.2	31	4	177	<0.1	3014	49	3.32	L 71+50S 3+25E	S 1.6	35	280	238	<0.1	2448	88	3.13
L 67+50S 3+25E	S 0.3	32	11	174	<0.1	2830	62	3.51	L 71+50S 3+50E	S 0.6	13	29	64	<0.1	1532	64	1.87
L 67+50S 3+50E	S 0.8	88	25	304	1.3	1782	567	3.84	L 71+50S 3+75E	S 0.1	9	8	49	<0.1	1917	33	0.88
L 67+50S 3+75E	S 0.4	30	32	216	<0.1	1833	112	2.71	L 73+50S 0+00E	S 0.8	19	25	118	<0.1	740	378	2.55
L 67+50S 4+00E	S 0.3	31	4	200	<0.1	2789	93	3.20	L 73+50S 0+25E	S 0.8	27	15	94	<0.1	733	393	2.64
L 67+50S 4+25E	S 0.2	39	2	199	<0.1	2770	60	4.35	L 73+50S 0+75E	S <0.1	12	41	260	0.2	715	109	1.70
L 67+50S 4+50E	S 0.3	25	<2	131	<0.1	2753	63	2.96	L 73+50S 1+00E	S <0.1	10	5	126	<0.1	866	60	1.16
L 67+50S 4+75E	S 0.4	44	<2	198	<0.1	2731	76	4.64	L 73+50S 1+25E	S 0.3	16	12	171	0.5	1033	190	1.51
L 67+50S 5+00E	S 0.3	24	11	149	<0.1	2703	39	3.01	L 73+50S 1+50E	S <0.1	22	17	235	0.8	982	535	2.05
L 69+50S 0+25E	S 0.6	16	9	82	<0.1	760	231	1.88	L 73+50S 1+75E	S 0.5	32	27	297	1.0	1356	266	2.72
L 69+50S 0+50E	S 0.2	21	17	163	<0.1	892	426	1.97	L 73+50S 2+00E	S 0.3	31	38	276	<0.1	1789	55	2.49
L 69+50S 0+75E	S <0.1	23	15	162	0.3	861	493	1.95	L 73+50S 2+25E	S 0.2	26	12	130	<0.1	1454	654	2.48
L 69+50S 1+00E	S 0.2	29	21	239	<0.1	1091	55	2.15	L 73+50S 2+50E	S 0.5	40	34	284	0.5	3666	118	3.61
L 69+50S 1+25E	S 0.4	18	23	153	1.2	2023	989	1.96	L 73+50S 2+75E	S 0.4	49	38	268	<0.1	2315	99	3.73
L 69+50S 1+50E	S 0.2	25	19	256	1.5	1451	164	2.46	L 73+50S 3+00E	S <0.1	36	12	209	<0.1	2455	171	2.67
L 69+50S 1+75E	S 0.4	29	22	259	2.0	1295	133	2.61	L 73+50S 3+25E	S 0.4	34	41	222	0.5	2785	71	2.94
L 69+50S 2+00E	S 0.2	21	20	154	<0.1	1085	58	1.90	L 73+50S 3+50E	S 0.4	19	70	106	<0.1	3728	150	2.90
L 69+50S 2+25E	S 0.1	13	11	165	<0.1	970	111	2.38	L 73+50S 3+75E	S 0.2	51	65	421	0.2	4270	332	5.61
L 69+50S 2+50E	S <0.1	6	4	14	<0.1	2375	6	0.63	L 73+50S 4+00E	S 0.5	38	65	421	2.3	2720	790	3.60
L 69+50S 2+75E	S 1.0	57	14	356	<0.1	5099	421	5.71	L 73+50S 4+25E	S 0.3	31	62	353	2.6	4355	305	4.17
L 69+50S 3+00E	S 0.6	41	11	147	<0.1	5154	139	3.62	L 73+50S 4+50E	S 0.6	38	131	458	2.1	3539	2610	3.85
L 69+50S 3+25E	S 0.5	69	15	260	<0.1	3922	330	4.46	L 73+50S 4+75E	S 0.4	28	55	258	0.4	1849	648	2.39
L 69+50S 3+50E	S 0.3	46	12	161	<0.1	3586	112	3.95	L 73+50S 5+00E	S 0.3	26	40	279	0.6	3037	369	2.97
L 69+50S 3+75E	S 0.5	37	23	134	<0.1	3133	120	2.95	L 75+50S 0+75E	S <0.1	13	9	92	<0.1	1019	261	2.18
L 69+50S 4+00E	S 0.5	25	28	107	<0.1	2871	95	2.67	L 75+50S 1+00E	S <0.1	16	9	125	<0.1	831	87	1.76
L 69+50S 4+25E	S 3.7	83	113	163	<0.1	474	164	12.90	L 75+50S 1+25E	S 0.1	31	20	369	0.4	879	141	2.31
L 69+50S 4+50E	S 3.2	126	146	1372	4.9	716	2071	14.81	L 75+50S 1+50E	S 0.2	18	16	148	0.2	939	99	1.73
L 69+50S 5+00E	S 2.4	108	131	1889	8.9	706	1054	8.42	L 75+50S 1+75E	S 0.3	26	19	185	1.2	975	610	1.93
L 71+50S 0+00E	S 0.7	32	22	433	1.2	655	82	2.04	L 75+50S 2+00E	S 0.1	22	32	184	0.6	1033	246	2.27
L 71+50S 0+50E	S 1.1	45	36	855	5.1	1006	402	3.03	L 75+50S 2+25E	S <0.1	24	12	119	<0.1	3164	144	2.73
L 71+50S 1+00E	S 0.2	27	30	481	2.6	923	192	1.98	L 75+50S 2+50E	S 0.1	18	18	92	<0.1	2183	79	1.64
L 71+50S 1+25E	S 0.8	87	25	1155	17.3	1433	393	3.54	L 75+50S 2+75E	S <0.1	18	16	105	<0.1	2067	94	1.59
L 71+50S 1+50E	S 1.1	42	28	301	3.0	1486	100	2.09	L 75+50S 3+00E	S 1.4	32	97	214	<0.1	3062	70	2.71
L 71+50S 1+75E	S 0.6	38	24	184	1.1	1460	180	2.24	L 75+50S 3+25E	S 1.3	16	129	63	0.1	2666	34	1.97

YN  
 Noel Creek

Min Limit 0.1 1 2 1 0.1 2 1 0.01 0.1 1 2 1 0.1 2 1 0.01  
 Max Reported\* 99.9 9999 9999 9999 99.9 9999 9999 99.99  
 Method ICP  
 ---No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 % =Estimate % Max=No Estimate  
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*[Signature]*  
 David Chiu

Sample Name	Ag	Cu	Pb	Zn	Cd	Ba	Mn	Fe	Sample Name	Ag	Cu	Pb	Zn	Cd	Ba	Mn	Fe
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
L 75+50S 3+50E	S 1.2	27	70	99	<0.1	2765	33	1.54	YNI Noel Creek.								
L 75+50S 3+75E	S 0.5	96	29	107	<0.1	3796	208	5.88									
L 75+50S 4+00E	S 0.8	45	10	131	<0.1	2604	64	3.42									
L 75+50S 4+25E	S 1.3	34	29	113	<0.1	2754	52	3.71									
L 75+50S 4+50E	S 1.6	31	112	95	<0.1	552	83	5.47									
L 75+50S 5+00E	S 1.0	47	24	213	<0.1	2185	53	3.41									
L 77+50S 0+75E	S 0.3	15	<2	95	<0.1	838	59	1.43									
L 77+50S 1+00E	S 1.6	38	18	346	0.8	832	484	2.90									
L 77+50S 1+25E	S 0.4	38	11	308	0.2	901	227	2.57									
L 77+50S 1+50E	S 0.1	18	7	164	<0.1	836	117	1.77									
L 77+50S 1+75E	S 0.7	31	120	244	0.4	2207	164	1.55									
L 77+50S 2+00E	S 1.2	64	71	611	0.8	5479	60	2.55									
L 77+50S 2+25E	S 0.6	87	18	168	<0.1	3393	66	5.60									
L 77+50S 2+50E	S 0.3	35	70	61	<0.1	4345	59	3.69									
L 77+50S 2+75E	S 0.2	26	44	37	<0.1	4407	27	0.78									
L 77+50S 3+00E	S 0.7	26	55	44	<0.1	3291	37	1.21									
L 77+50S 3+25E	S 2.4	44	158	29	<0.1	1152	34	3.20									
L 77+50S 3+50E	S 1.4	39	86	238	<0.1	3072	50	2.34									
L 77+50S 3+75E	S 2.5	36	67	203	0.5	2852	26	2.49									
L 77+50S 4+25E	S 0.3	80	18	253	<0.1	5081	88	7.15									
L 77+50S 4+50E	S 0.3	60	7	181	<0.1	3554	118	4.88									
L 77+50S 4+75E	S 0.4	47	6	141	<0.1	3221	109	4.55									
L 77+50S 5+00E	S 0.2	52	7	150	<0.1	3559	108	4.67									

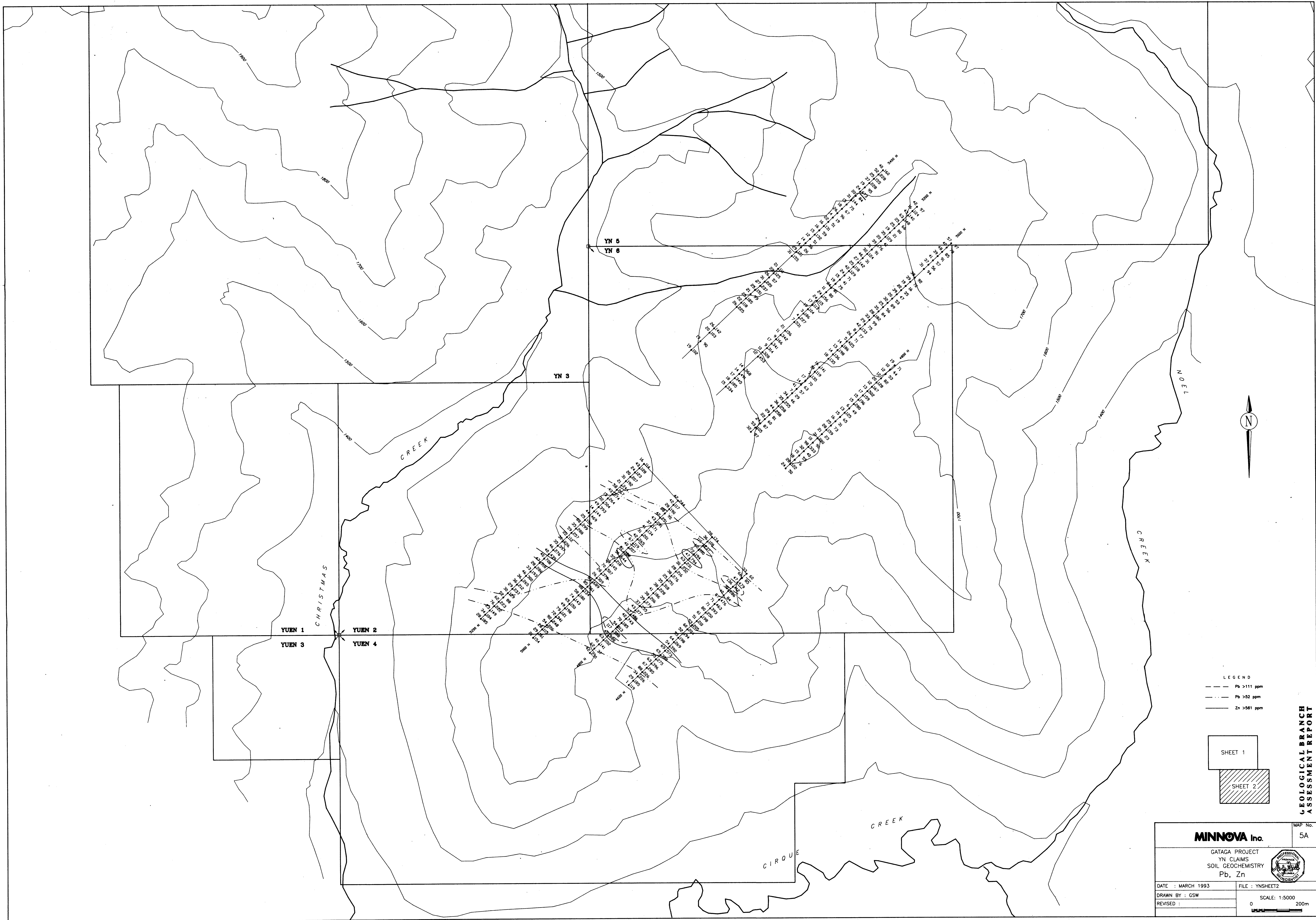
Min Limit            0.1   1   2   1   0.1   2   1   0.01            0.1   1   2   1   0.1   2   1   0.01  
 Max Reported\*       99.9 9999 9999 9999 99.9 9999 9999 99.99       99.9 9999 9999 9999 99.9 9999 9999 99.99  
 Method                ICP ICP ICP ICP ICP ICP ICP ICP                ICP ICP ICP ICP ICP ICP ICP ICP  
 ---No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate  
 International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



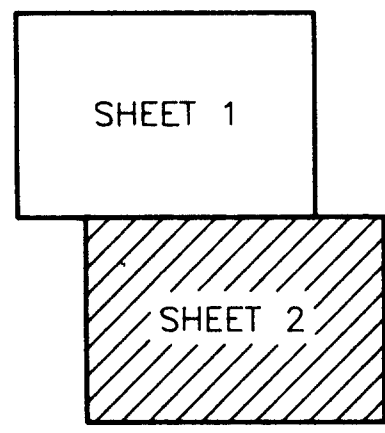
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<b>MINNOVA Inc.</b>		MAP No.
GATAGA PROJECT YN CLAIMS SOIL GEOCHEMISTRY Pb, Zn		5A
DATE : MARCH 1993	FILE : YNSHEET1	
DRAWN BY : GSW	SCALE: 1:5,000	
REVISED :	0	200m



LEGEND  
 - - - - - Pb >111 ppm  
 - - - - - Pb >52 ppm  
 - - - - - Zn >561 ppm



<b>MINNOVA Inc.</b>		MAP No. 5A
GATAGA PROJECT YN CLAIMS SOIL GEOCHEMISTRY Pb, Zn		
DATE : MARCH 1993	FILE : YNSHEET2	
DRAWN BY : GSW	SCALE: 1:5000	
REVISED :	0 200m	

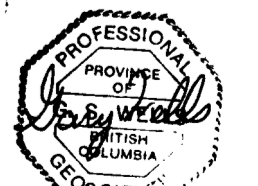
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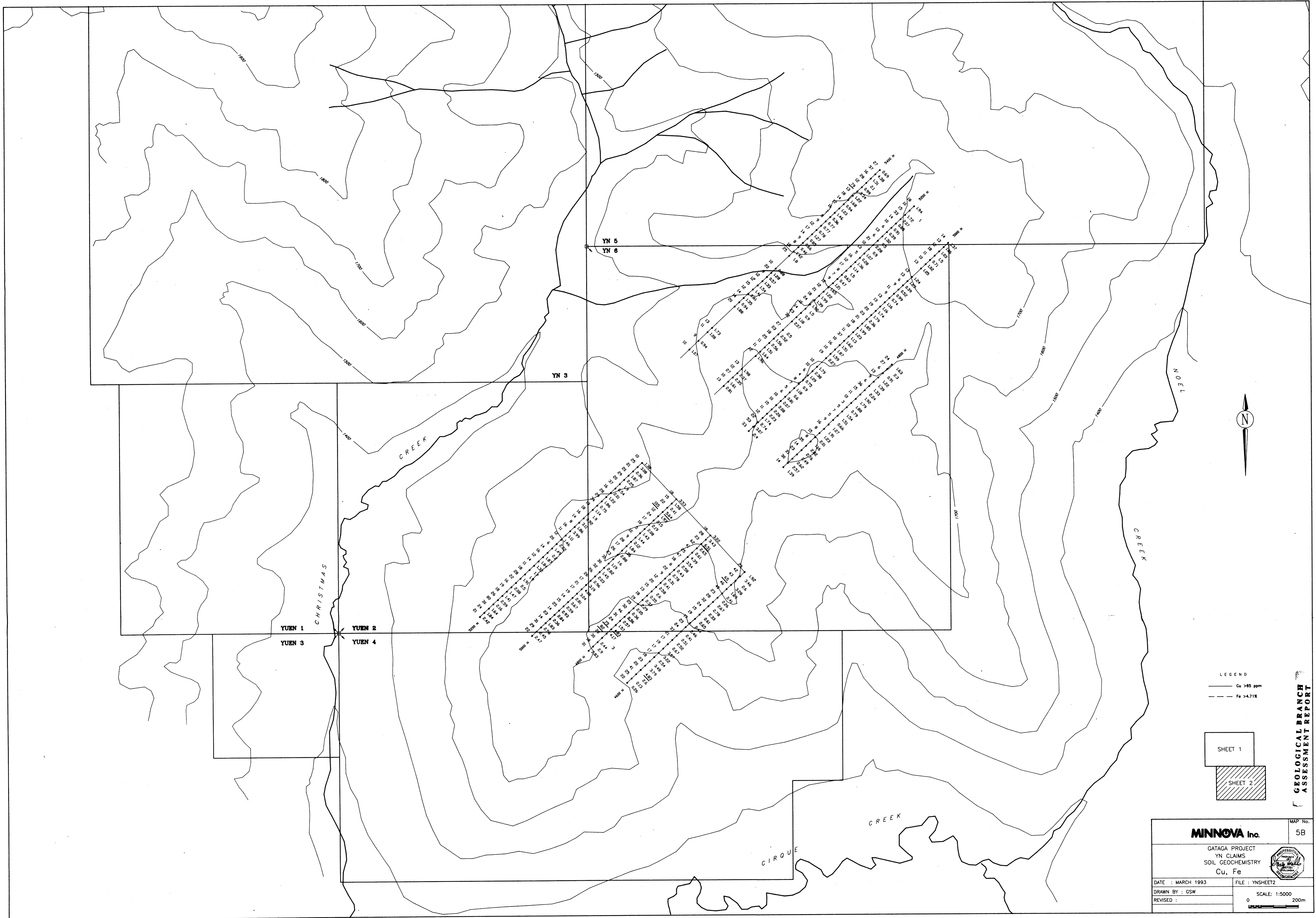
LEGEND  
 ——— Cu > 65 ppm  
 - - - - Fe > 4.71%

SHEET 1  
 SHEET 2

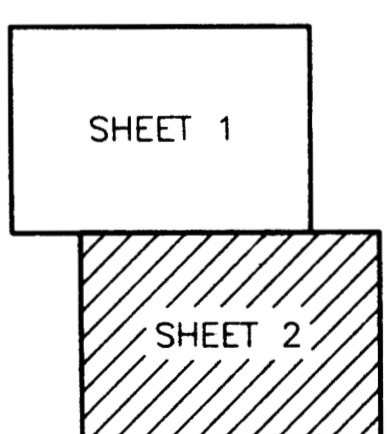
<b>MINNOVA Inc.</b>		MAP No. 5B
GATAGA PROJECT YN CLAIMS SOIL GEOCHEMISTRY Cu, Fe		
DATE : MARCH 1993	FILE : YNSHEET1	 SCALE: 1: 5,000 0 200m
DRAWN BY : GSW		
REVISED :		

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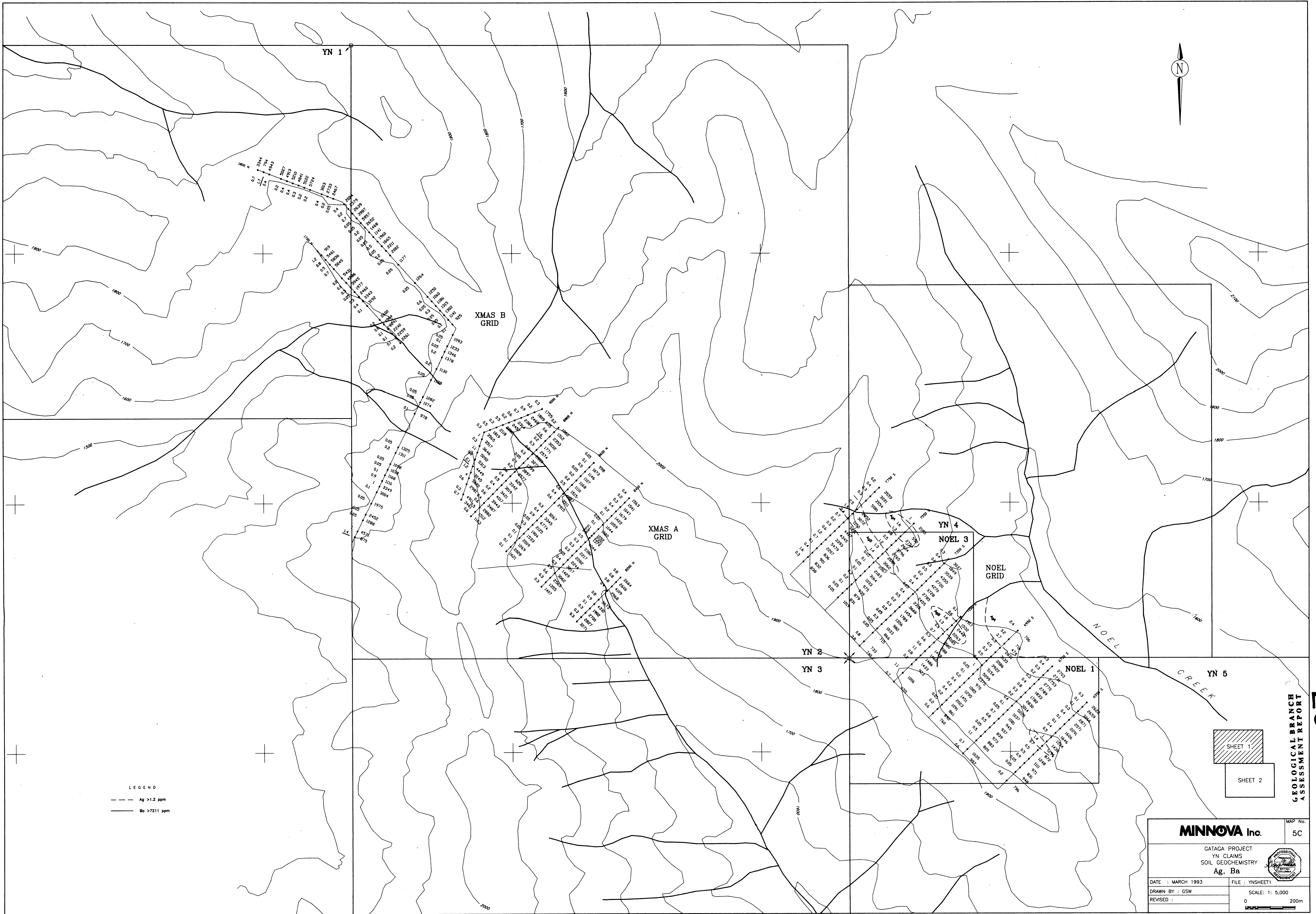
LEGEND  
 ——— Cu > 85 ppm  
 - - - Fe > 4.71%



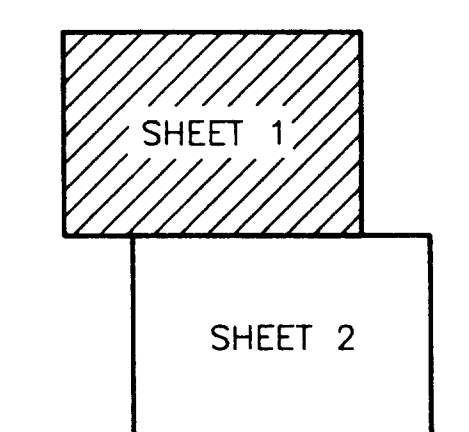
<b>MINNOVA Inc.</b>		MAP No. 5B
GATAGA PROJECT YN CLAIMS SOIL GEOCHEMISTRY Cu, Fe		
DATE : MARCH 1993	FILE : YNSHEET2	
DRAWN BY : GSW	SCALE : 1:5000	
REVISED :	0 200m	

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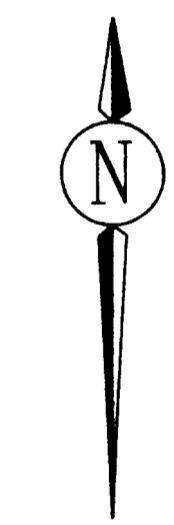
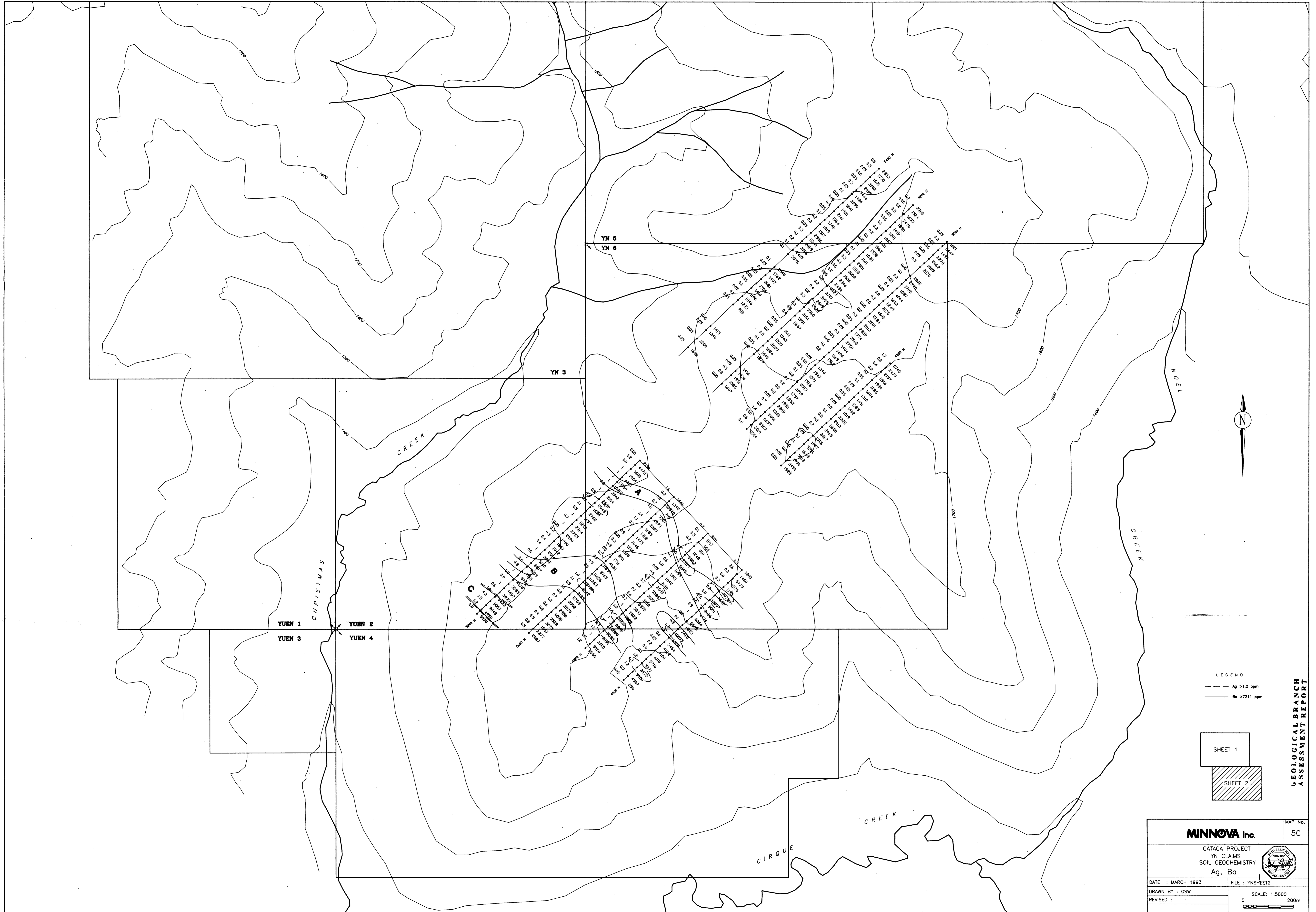
LEGEND  
 - - - Ag > 1.2 ppm  
 ——— Ba > 7211 ppm



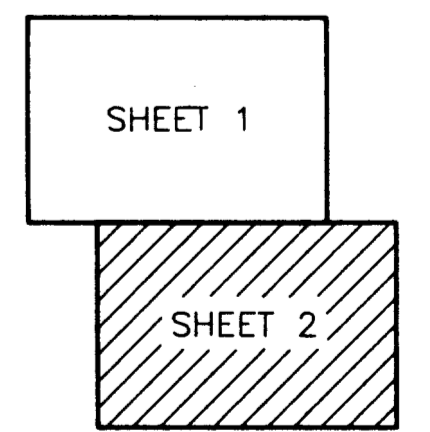
GEOLOGICAL BRANCH  
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<b>MINNOVA Inc.</b>		MAP No.
GATAGA PROJECT YN CLAIMS SOIL GEOCHEMISTRY Ag, Ba		5C
DATE : MARCH 1993	FILE : YNSHEET1	
DRAWN BY : GSW	SCALE: 1: 5,000	
REVISED :	0	200m

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LEGEND  
 - - - Ag >12 ppm  
 ——— Ba >7211 ppm



<b>MINNOVA Inc.</b>		MAP No.
GATAGA PROJECT YN CLAIMS SOIL GEOCHEMISTRY Ag, Ba		5C
DATE : MARCH 1993	FILE : YNSHEET2	
DRAWN BY : GSW	SCALE: 1:5000	
REVISED :	0 200m	

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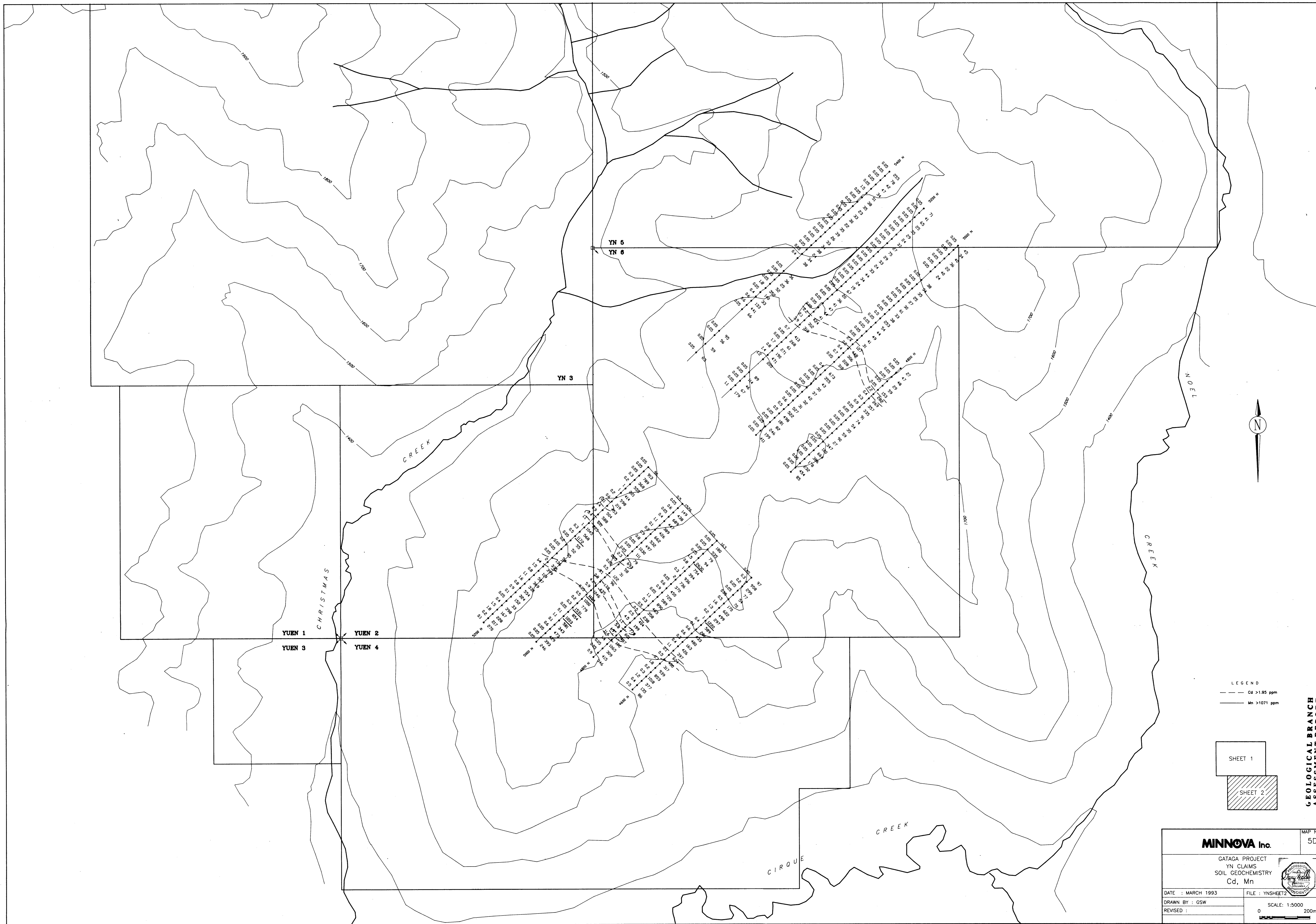


<b>MINNOVA Inc.</b>		MAP No. 5D
GATAGA PROJECT YN CLAIMS SOIL GEOCHEMISTRY Cd, Mn		
DATE : MARCH 1993	FILE : YNSHEET1	
DRAWN BY : GSW	SCALE: 1: 5,000	
REVISED :	0 200m	

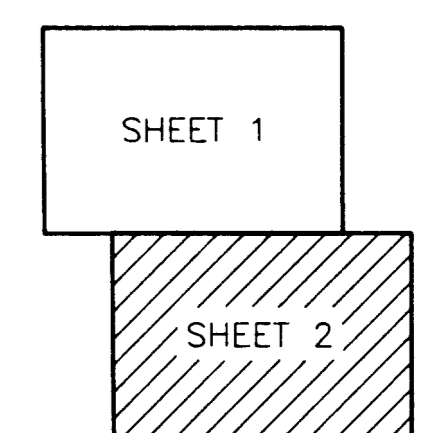
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LEGEND  
 - - - Cd > 1.95 ppm  
 \_\_\_\_\_ Mn > 1071 ppm



<b>MINNOVA Inc.</b>		MAP No. 5D
GATAGA PROJECT YN CLAIMS SOIL GEOCHEMISTRY Cd, Mn		
DATE : MARCH 1993	FILE : YNSHEET2	
DRAWN BY : GSW	SCALE : 1:5000	
REVISED :	0 200m	

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