Geochemical Report

on the

Bing Mineral Claims
(Bing 2 & 3)

Atlin Mining Division,
British Columbia

104K/8E
Latitude 58° 22'
Longitude 132° 07'

Owner: Tahltan Holdings Ltd
Operator: Tahltan Holdings Ltd.

Author: Bill Dynes B.Sc. (Hon)

Date: Oct 8, 1994

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1.0) INTRODUCTION

1.1) Location and Access

The Bing mineral claims are located in northwestern British Columbia, in the Altin Mining Division on NTS mapsheet 104K 8E (see figure 1). The nearest permanent settlement, Telegraph Creek, is located approximately 100 kilometers to the southeast. The Golden Bear mine site lies 20 kilometers to the south-south west of the claims.

The all weather road connecting the Golden Bear mine site with the town of Dease Lake, passes to within 15 kilometers of the Bing claim group.

The present work was mobilized from a camp on Tatsamenie Lake lying 10 kilometers west of the property. The claims were accessed by helicopter from the camp. The camp was supported by float plane.

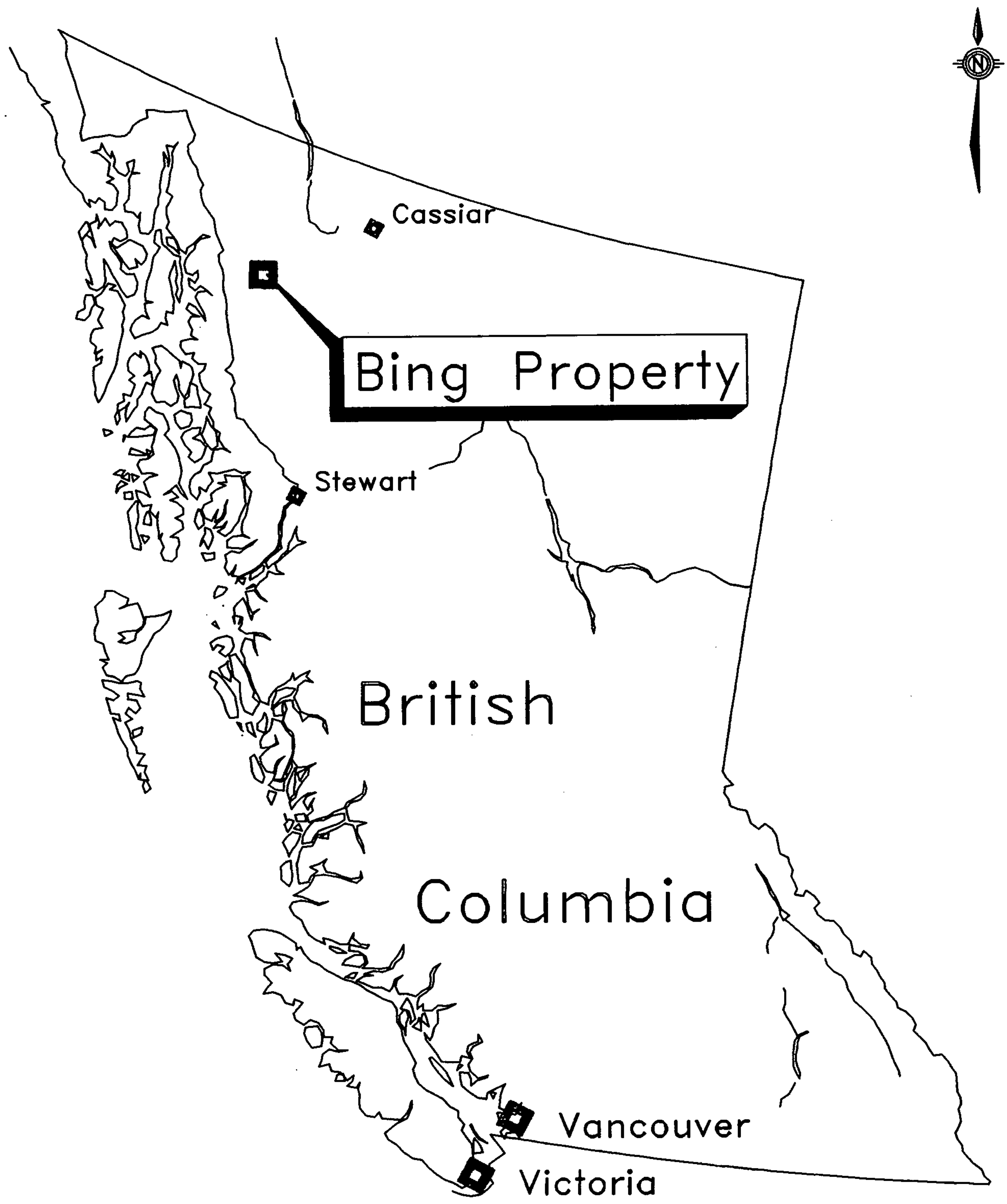
1.2) Physiography

The claims lie on the western flank of the Talhtan plateau. The climate is transitional between the wet coastal zones and the dry interior. Rainfall and snowfalls are moderate. Tatsamenie Lake is generally ice free from mid-May to early November.

Fieldwork is possible in this area from June to the end of October. Sufficient water for drilling is available from seasonal run-off water during the early months of summer.

1.3) Claim Status

The property is comprised of the Bing 2 and 3 claims, which are contiguous four post claims located in the Altin Mining District on NTS mapsheet 104K 8E. The location of the claims is shown in figure 2. Tahltan Holdings Ltd is the recorded owner of the claims. The details of the claims are tabulated in Table 1.



TAHLTAN HOLDINGS LTD.

BING PROJECT
LOCATION MAP
ATLIN MINING DIVISION, BC

SCALE: AS SHOWN	NTS: 104K/8	DATE: SEPT 20 1994
APPROVED BY: BD	FILE NO.	FIGURE NO.

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Table 1

Claim status:

Claim Name	Record No.	Record Date	Expiry Date	Units
Bing 2	319058	July11, 1993	July 11, 1996	20
Bing 3	319059	July11, 1993	July 11, 1996	20

1.4) Historical Overview

The Bing property was explored by Newmont from 1964 to 1966. During this period the geological, geophysical and geochemical surveys conducted were filed for assessment work (Gutrath 1965a, 1965b). Remnants of AQ drill core on the Bing property, suggest that approximately 10 - 12 diamond drill holes were completed. The data concerning this drilling is not publicly available.

. During the period 1987 to 1988 Stetson Resource Management Corp undertook reconnaissance scale mapping and sampling on the property (Freeze, 1988).

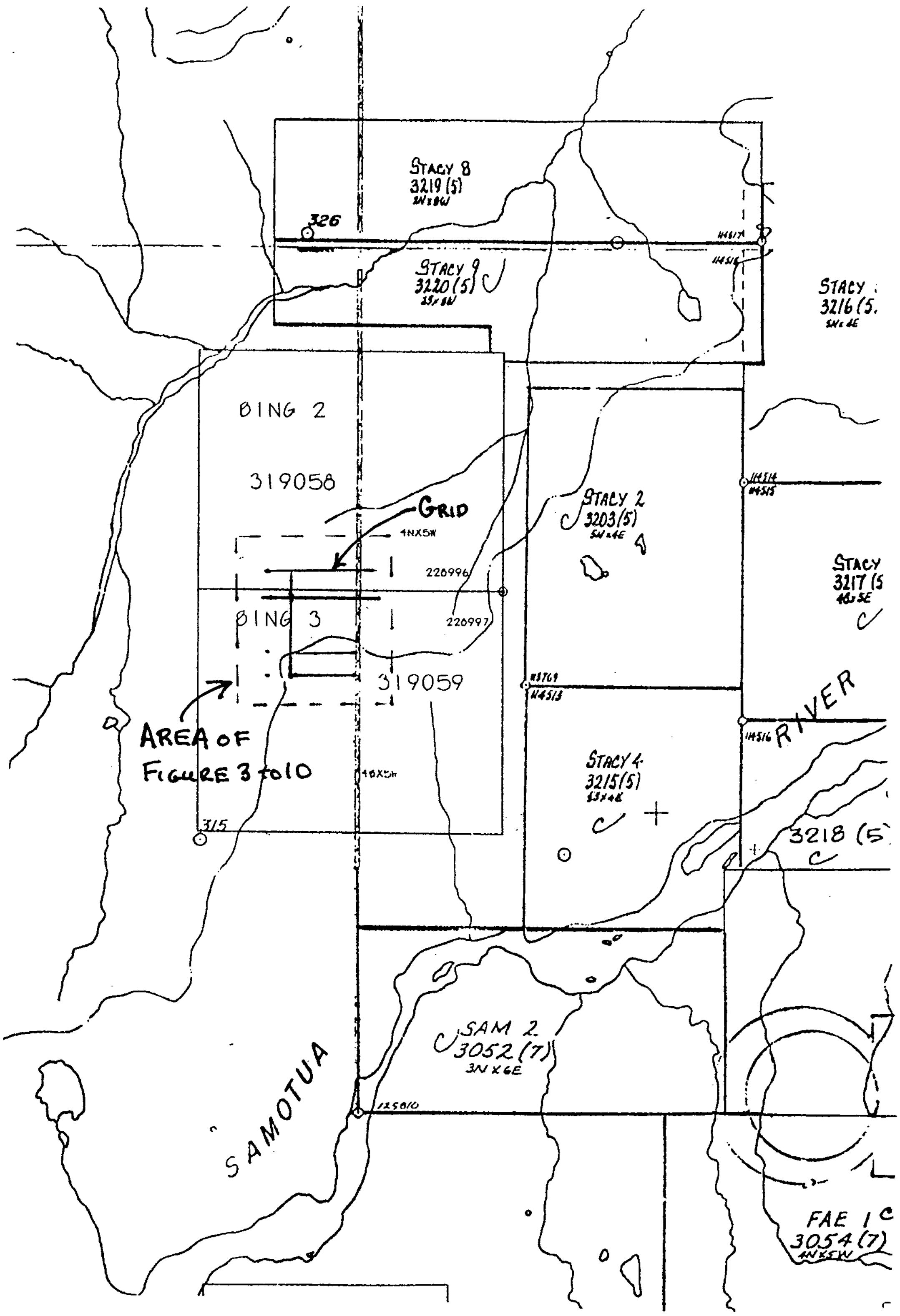
During the 1990 field season Waterford Resources Ltd relogged and sampled selected drilllcore left from the 1964 to 1966 Newmont program and, 15.3 line kms. of VLF and Mag surveys were completed. As well 43 reconnaissance soil geochemical samples were collected.

1.5) Current program

The present program is comprised of a geochemical soil orientation survey. A total of 66 soils were taken from an area central to the claims along two parallel east-west gridlines.

1.6) Economic Assessment

The Bing property overlies a Cretaceous quartz monzonite to foliated hornblende diorite stock which carries fracture controlled and disseminated copper-molybdenum mineralization (Oliver, 1990; Gutrath 1965a, 1965b). Sulphide



SCALE 1:5000

TAHLTAN HOLDINGS LTD.

BING PROJECT
LOCATION MAP
ATLIN MINING DIVISION, BC

SCALE: AS SHOWN	NTS: 104K/8	DATE: SEPT 20 199
APPROVED BY: BD	FILE NO.	FIGURE NO.

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mineralization is developed on the property in association with potassically altered quartz monzonite.

Qualitative soil geochemical analyses (Bloom analyses) conducted by Newmont defined several zones of anomalous soil geochemistry (Gutrath 1965a). One of these has a strike length of greater than 975 metres. Check soil sampling of this anomaly using quantitative analytical methods, defined copper in soils which sometimes exceeded 3000 ppm (Oliver 1990).

The presence of anomalous gold values (to 375 ppb) in the present orientation soil survey, indicates that gold is associated with the porphyry style mineralization. This parameter significantly enhances the economic potential of the property. Further work is warranted.

2.0) GEOLOGY AND MINERALIZATION

2.1) Regional Geology and Mineralization

Oliver (1990) describes the regional framework for the Bing claim area as follows:

The Bing claim *area occupies the northern flank of the Stikine Arch. Within the Stikine Arch, and in the project area, Triassic age felsic intrusions are strongly foliated and deformed and form the basement to all other intrusive and supracrustal rock sequences.*

Triassic intrusions are overlain by an assemblage of Upper Paleozoic limestones and charts which are conformably overlain by pre-Upper Triassic mafic volcanic and volcaniclastic rocks.

Pre-Upper Triassic rocks are unconformably overlain by a weakly deformed sequence of Middle Triassic volcanic rocks, likely correlates of the Stuhuni Group. These relatively undeformed flow and pyroclastic sequences are well exposed on the north shore of Tatsamenie Lake.

Most of the rocks in the project area are north-south striking and subvertically dipping. These strike relations may be violated across the hinge areas of major fold structures. At these locations east-west striking orientations are adopted. This appears to be the case across much of the Tatsa property.

Supracrustal rocks have been subject to three major deformational episodes. This deformation is exemplified in the formation of tight isoclinal, typically north plunging folds. These folds are subsequently rotated into east-west positions by a broader upright fold event which forms sometime later than the mid-Triassic. Metamorphic grades throughout the region are typically low, generally sub-greenschist.

Lower greenschist metamorphic grades may be reached at the deepest stratigraphic levels. These stratigraphic positions are best exposed along the northwest shore of the Tatsamenie Lake.

Major north trending wrench faults and east-west trending extensional faults cut all but the youngest intrusive phases. One of these fault systems is mineralized, the Golden Bear fault, and hosts the Golden Bear gold deposit. the geology of this deposit was first described by Schroeter (1985). Major lithologic and structural units are shown on Figure 3.

At a regional scale, map sheet 104/K hosts several precious metal occurrences, one producing gold deposit, and several porphyry style occurrences. The golden Bear deposit contains 625,390 T of 18.63 g/T Au with the age of mineralization placed by Schroeter (1987) at between 204 and 177 Ma. This mineralization significantly pre-dates a lower Tertiary precious metal epithermal event, which is associated with the emplacement of Sloko type feldspar porphyritic dyke rocks.

Several porphyry prospects are located within NTS 104K. Most of these are associated with diorite to quartz monzonites stocks suggested by Souther (1971) to be Cretaceous in age. These mineralizing systems appear to best conform to the cal-alkaline, copper-molybdenum porphyry model.

2.2) Property Geology and Mineralization

Oliver (1990) summarizes the geology of the Bing claims as follows:

The Bing property overlies a mineralized intrusive suite of foliated hornblende diorites, quartz monzonite and lesser feldspar porphyritic dykes. Dioritized mafic volcanics form a thin veneer or screen across intrusive rocks. Triassic volcanic rocks and chemical sediments crop out across the southern half of the property.

Porphyry style copper-molybdenum mineralization develops within quartz monzonite, hornblende diorites and particularly within strongly potassically altered intrusive rocks. Shear hosted silver-lead-zinc veins have been noted in a series of north-south trending structural zones, across the west and northern portions of the property.

3.0) 1993 SOIL GEOCHEMICAL SAMPLING PROGRAM

3.1) Introduction

Soil sampling during a three day period in mid July/1993 involved the collection of 66 soil samples from the central area of the Bing claim group. The soils were taken from grid lines re-compassed and re-chained over the previous grid established by Waterford resources in 1990. Samples of the B-horizon were taken every 25 meters along two parallel grid lines (4+00S and 2+00S) (see figures 4 to 10). The samples were carefully taken by two experienced soil samplers.

The samples collected were analyzed for 32 major and trace elements by inductively coupled argon plasma (ICP) techniques and for gold by fire assay with atomic absorption finish. The analytical work was completed by Bondarr Clegg Laboratories of North Vancouver, B.C. Analytical procedures are summarized in Appendix I and complete analyses are contained in Appendix II.

3.2) Results and Observations

A statistical analyses of selected elements is tabulated below:

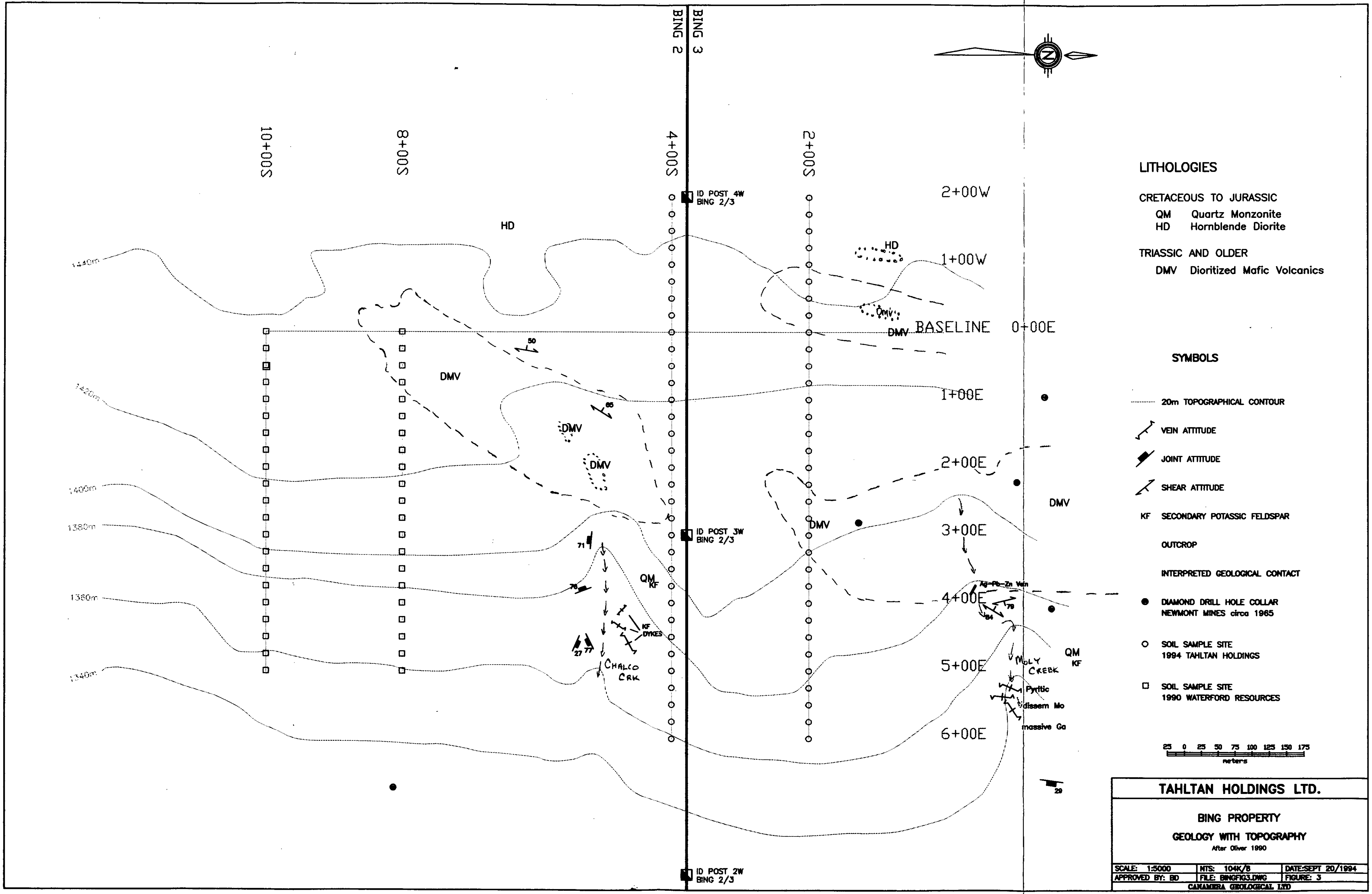
Table 2 Geochemical Statistical Data (1993 data only)

Statistical Parameter	As(ppm)	Au(ppb)	Cu(ppm)	Mo(ppm)	Pb(ppm)	Zn(ppm)
Average	11.7	24.5	128.5	7.1	15.2	73.8
Median	10.5	14.5	125.5	5.0	12.0	73.0
Mode	5.0	8.0	112.0	1.0	10.0	68.0
Maximum	28.0	327.0	287.0	68.0	69.0	113.0
Minimum	5.0	4.0	48.0	1.0	2.0	17.0
Standard Deviation	6.1	42.3	41.6	10.5	10.6	16.5
Median plus 2.5 Standard Deviation	25.7	120.3	229.4	31.1	38.5	114.3

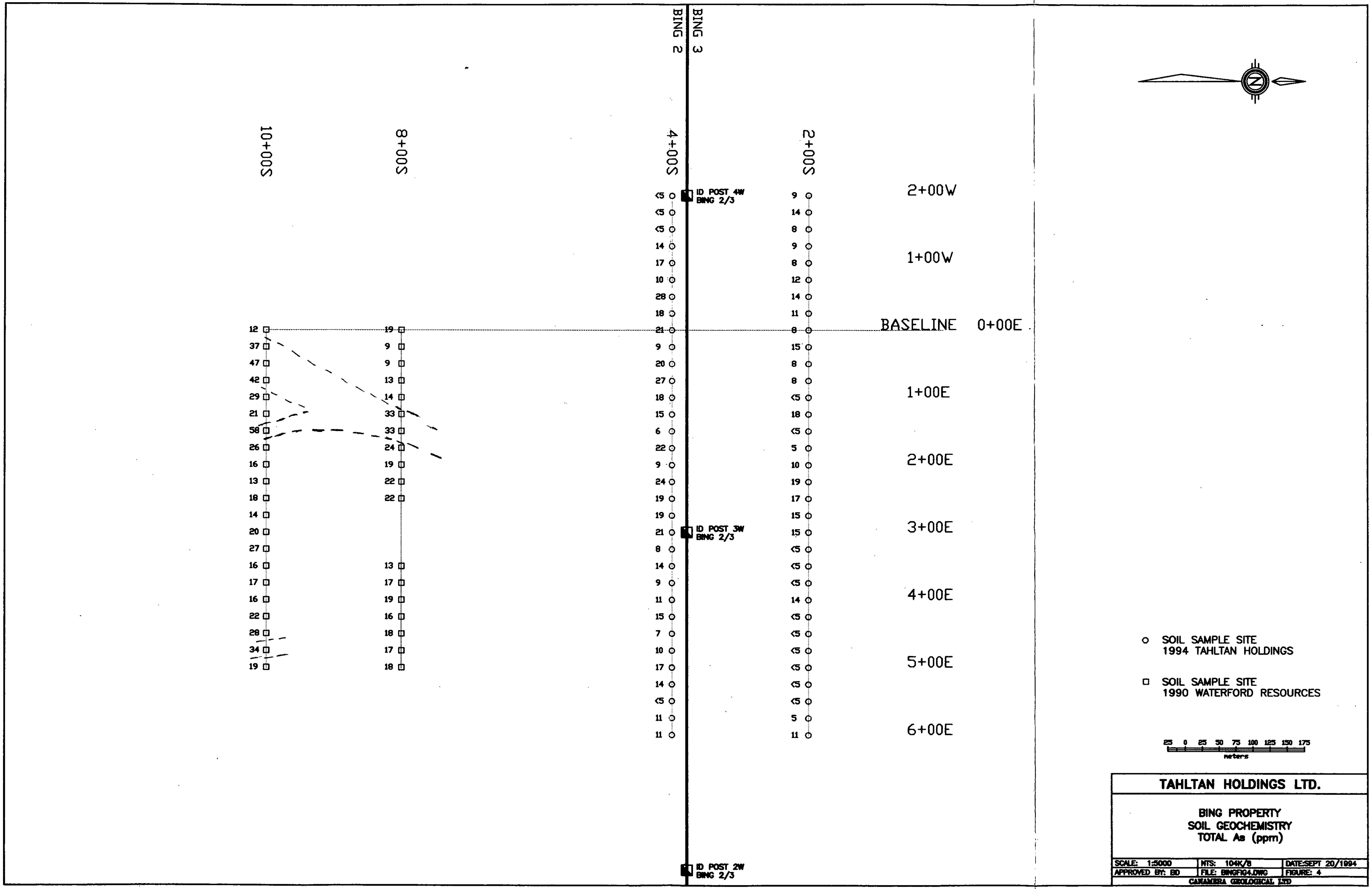
In figures 4 to 10 selected results of the 1993 program have been plotted with the results a similar survey done by Waterford Resources Ltd in 1990 (see Oliver 1990). In the instance of copper the results from a qualitative extractable survey done by Newmont (Gutrath 1965a) are included separately as figure 7. All results are plotted at a scale of 1/5000 and a geologic map of the same scale (taken from Oliver 1990) with topographic contours has been included for reference (see figure 3).

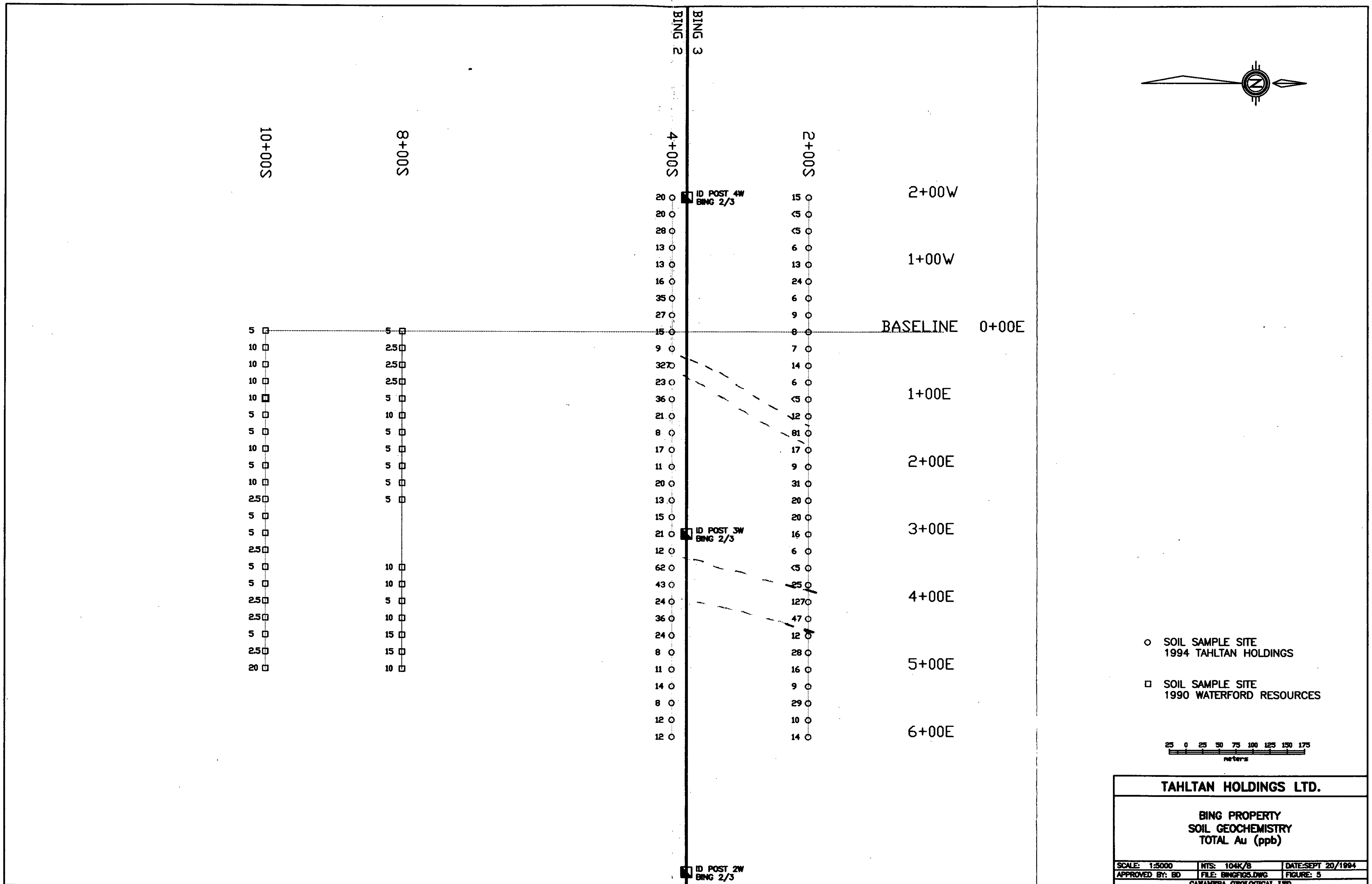
Arsenic values (see figure 4) are generally subdued although moderately anomalous results concentrating the southwest corner of the grid suggest an anomaly may continue to the southwest.

Gold values (see figure 5) are distinctly more elevated and heterogeneous in the northern half of the grid corresponding to the 1993 results. The difference is so striking as to warrant their consideration as a separate data set entirely. The 1993 results are



BING 2
BING 3
10+00S
8+00S
4+00S
2+00S
2+00W
1+00W
BASELINE 0+00E
1+00E
2+00E
3+00E
4+00E
5+00E
6+00E
ID POST 4W BING 2/3
ID POST 3W BING 2/3
ID POST 2W BING 2/3
1440m
1420m
1400m
1380m
1360m
1340m
HD
DMV
QM
KF
KF DYKES
CHALCO CRK
Ag-Pb-Zn Vein
MOLY CREEK
Pyritic
dissem Mo
massive Ga
LITHOLOGIES
CRETACEOUS TO JURASSIC
QM Quartz Monzonite
HD Hornblende Diorite
TRIASSIC AND OLDER
DMV Dioritized Mafic Volcanics
SYMBOLS
20m TOPOGRAPHICAL CONTOUR
VEIN ATTITUDE
JOINT ATTITUDE
SHEAR ATTITUDE
KF SECONDARY POTASSIC FELDSPAR
OUTCROP
INTERPRETED GEOLOGICAL CONTACT
DIAMOND DRILL HOLE COLLAR NEWMONT MINES circa 1965
SOIL SAMPLE SITE 1994 TAHLTAN HOLDINGS
SOIL SAMPLE SITE 1990 WATERFORD RESOURCES
25 0 25 50 75 100 125 150 175
meters
TAHLTAN HOLDINGS LTD.
BING PROPERTY
GEOLOGY WITH TOPOGRAPHY
After Oliver 1990
SCALE: 1:5000
NTS: 104K/8
DATE:SEPT 20/1994
APPROVED BY: BD
FILE: BINGFIG3.DWG
FIGURE: 3
CANAMERA GEOLOGICAL LTD


BING 2
BING 3
10+00S
8+00S
4+00S
2+00S
ID POST 4W BING 2/3
ID POST 3W BING 2/3
ID POST 2W BING 2/3
2+00W
1+00W
BASELINE 0+00E
1+00E
2+00E
3+00E
4+00E
5+00E
6+00E
SOIL SAMPLE SITE 1994 TAHLTAN HOLDINGS
SOIL SAMPLE SITE 1990 WATERFORD RESOURCES
25 0 25 50 75 100 125 150 175
meters
TAHLTAN HOLDINGS LTD.
BING PROPERTY
SOIL GEOCHEMISTRY
TOTAL As (ppm)
SCALE: 1:5000
NTS: 104K/8
DATE:SEPT 20/1994
APPROVED BY: BD
FILE: BINGFIG4.DWG
FIGURE: 4
CANAMERA GEOLOGICAL LTD

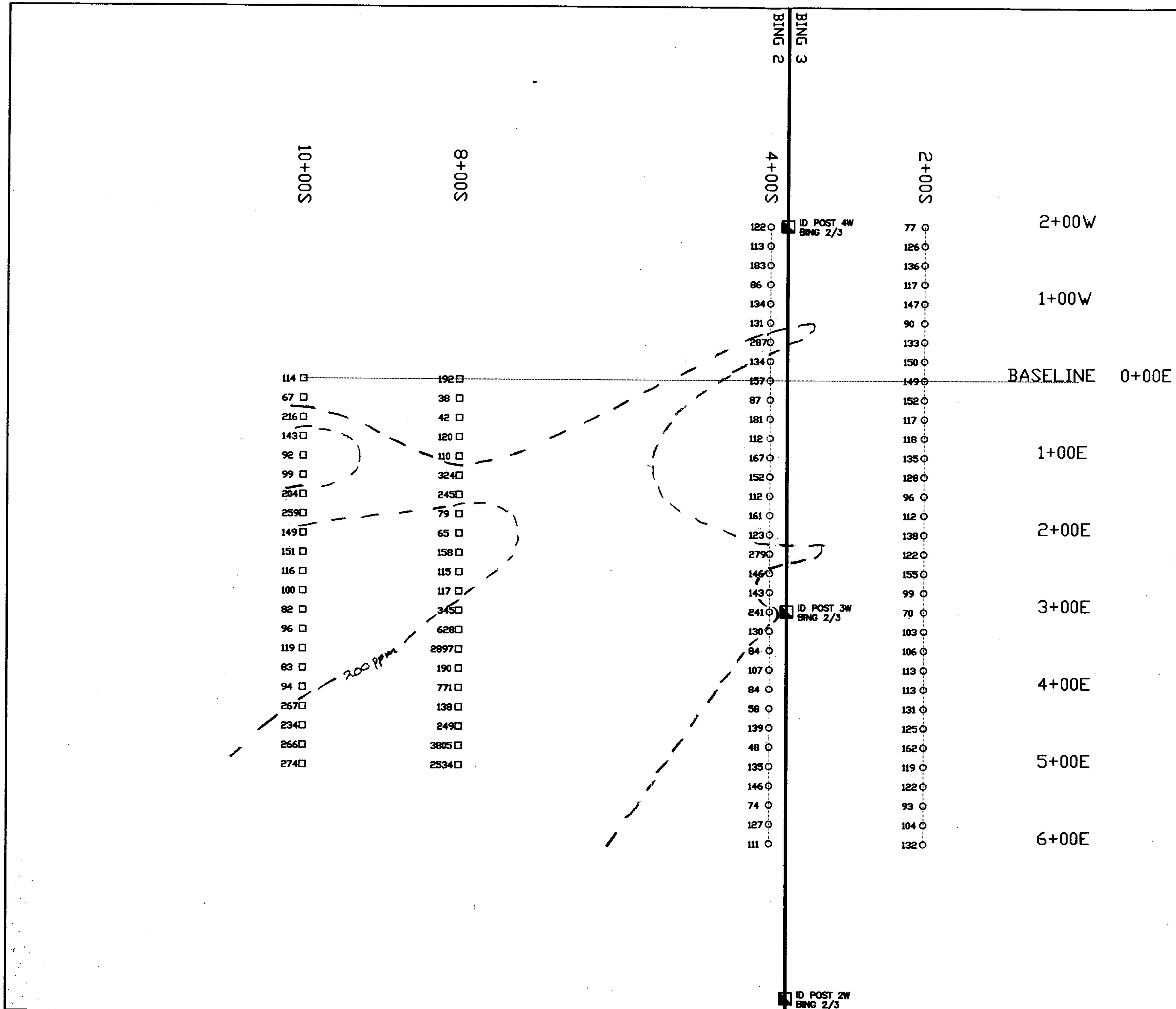


TAHLTAN HOLDINGS LTD.

BING PROPERTY
SOIL GEOCHEMISTRY
TOTAL Au (ppb)

SCALE: 1:5000	NTS: 104K/8	DATE: SEPT 20/1994
APPROVED BY: BD	FILE: BINGFIG5.DWG	FIGURE: 5

CANAMERA GEOLOGICAL LTD



○ SOIL SAMPLE SITE 1994 TAHLTAN HOLDINGS

□ SOIL SAMPLE SITE 1990 WATERFORD RESOURCES

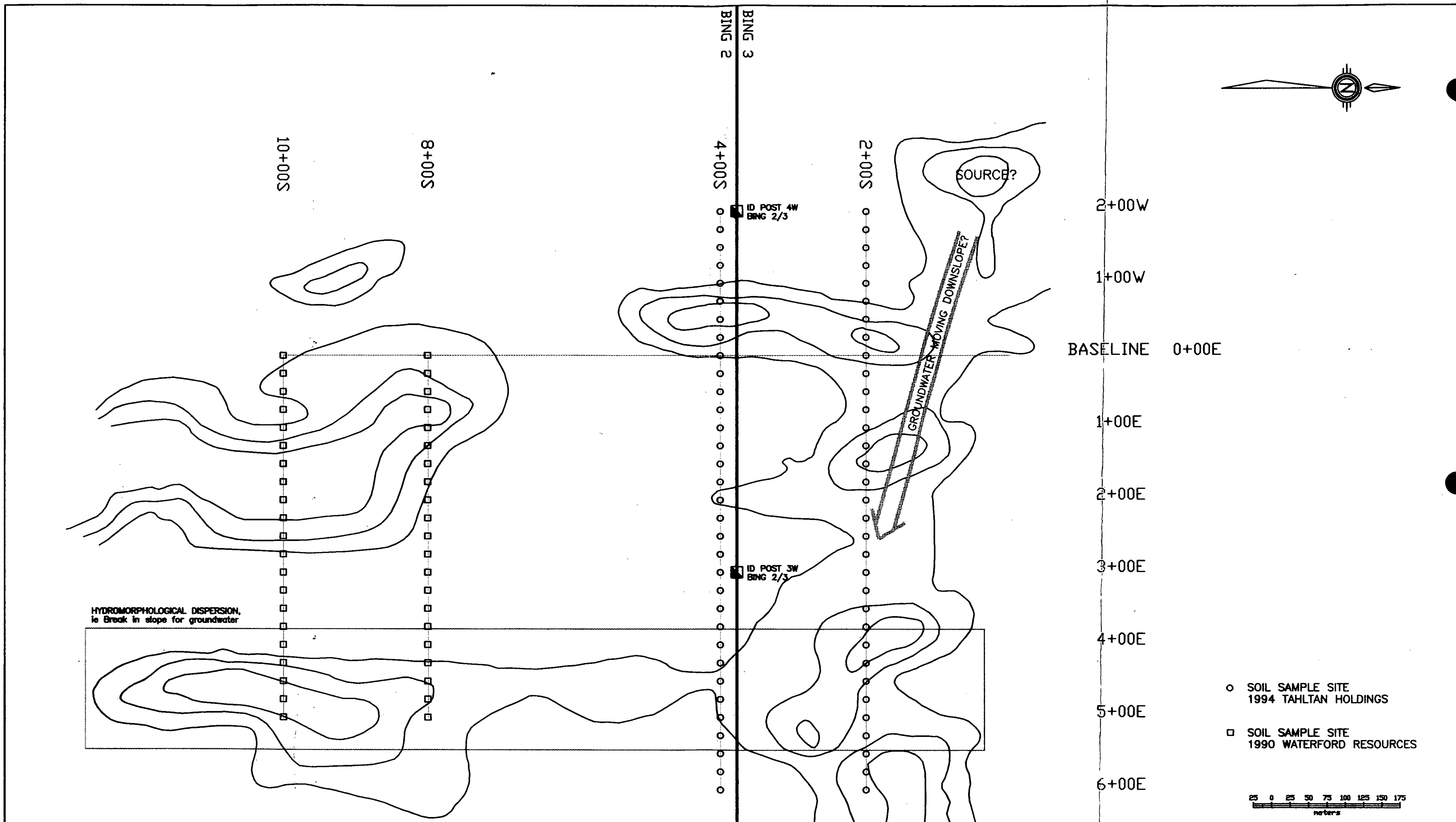
25 0 25 50 75 100 125 150 175 meters

TAHLTAN HOLDINGS LTD.

BING PROPERTY
SOIL GEOCHEMISTRY
TOTAL Cu (ppm)

SCALE: 1:5000	NTS: 104K/8	DATE:SEPT 20/1994
APPROVED BY: BD	FILE: BINGFIG6.DWG	FIGURE: 6

CANAMERA GEOLOGICAL LTD



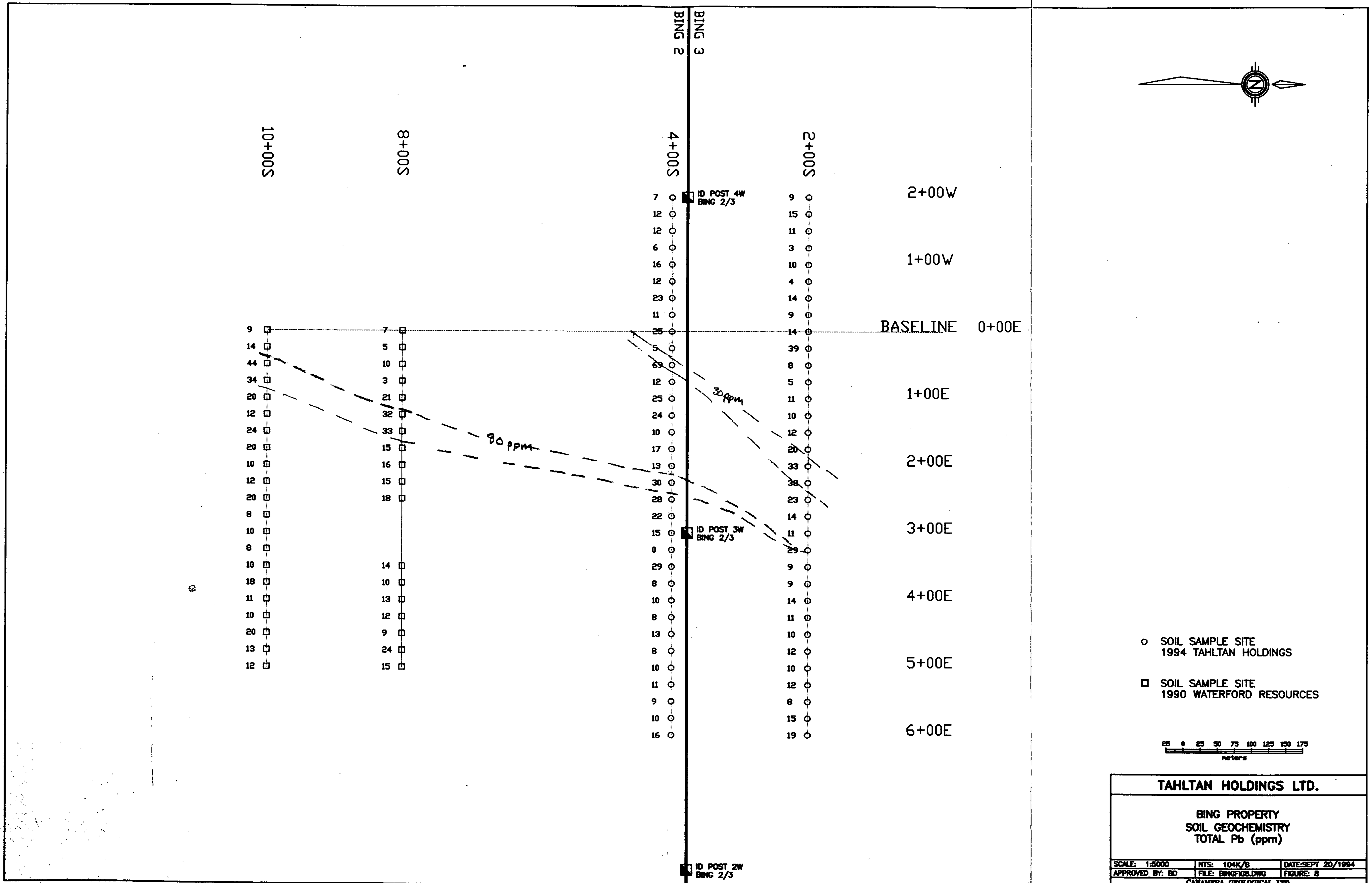
TAHLTAN HOLDINGS LTD.

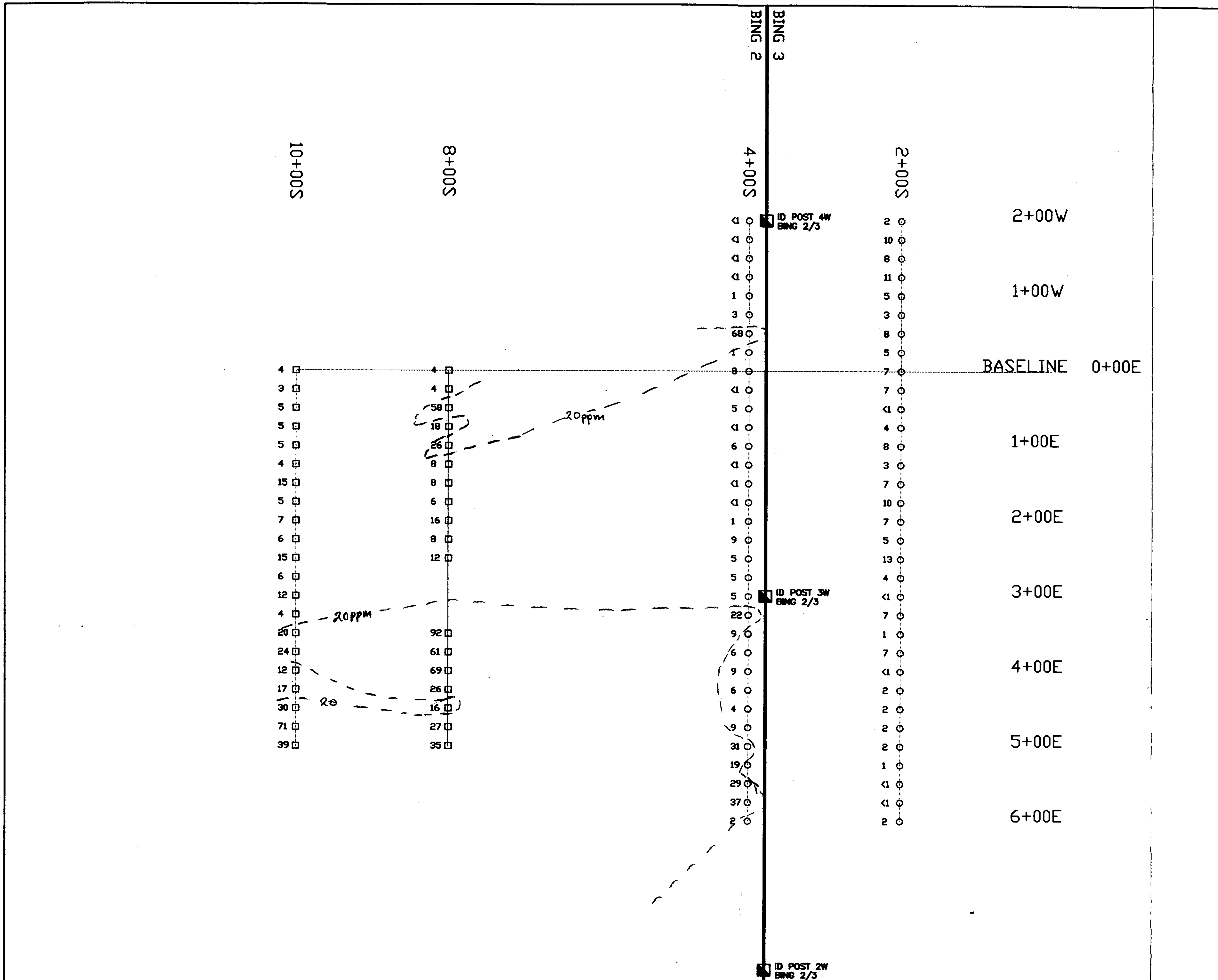
BING PROPERTY
QUALITATIVE EXTRACTABLE COPPER IN SOILS (COLORIMETRIC BLOOM TEST)

Interpretation Dynes 1994
After Newmont Mines 1964

SCALE: 1:5000	NTS: 104K/8	DATE:SEPT 20/1994
APPROVED BY: BD	FILE: BINGFIG7.DWG	FIGURE: 7

CANAMERA GEOLOGICAL LTD


BING 2
BING 3
10+00S
8+00S
4+00S
2+00S
ID POST 4W BING 2/3
ID POST 3W BING 2/3
ID POST 2W BING 2/3
2+00W
1+00W
BASELINE 0+00E
1+00E
2+00E
3+00E
4+00E
5+00E
6+00E
80 ppm
30 ppm
SOIL SAMPLE SITE 1994 TAHLTAN HOLDINGS
SOIL SAMPLE SITE 1990 WATERFORD RESOURCES
meters
TAHLTAN HOLDINGS LTD.
BING PROPERTY
SOIL GEOCHEMISTRY
TOTAL Pb (ppm)
SCALE: 1:5000
NTS: 104K/8
DATE: SEPT 20/1994
APPROVED BY: BD
FILE: BINGFIG8.DWG
FIGURE: 8
CANAMERA GEOLOGICAL LTD



○ SOIL SAMPLE SITE 1994 TAHLTAN HOLDINGS

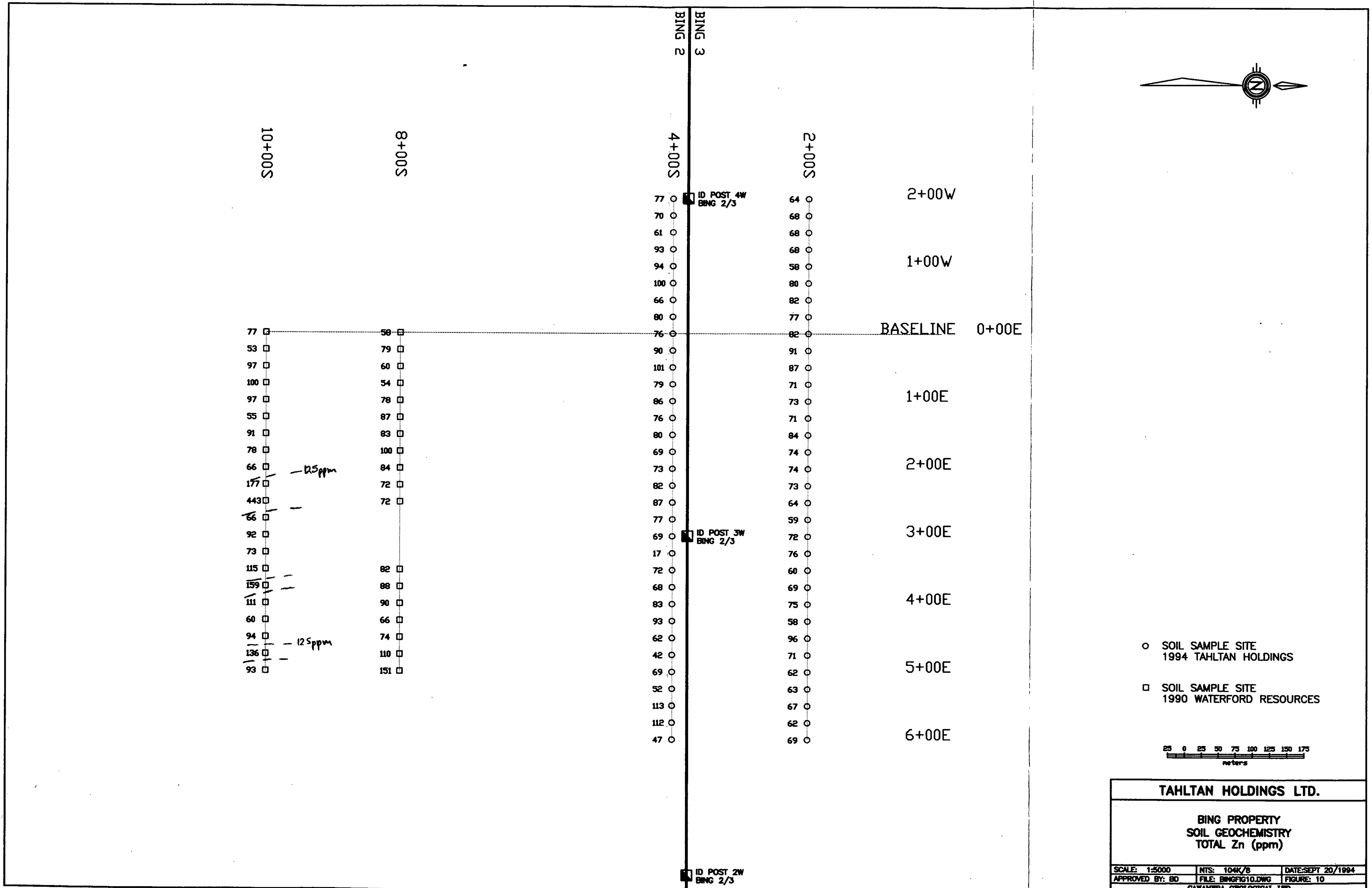
□ SOIL SAMPLE SITE 1990 WATERFORD RESOURCES

25 0 25 50 75 100 125 150 175 meters

TAHLTAN HOLDINGS LTD.

BING PROPERTY
SOIL GEOCHEMISTRY
TOTAL Mo (ppm)

SCALE: 1:5000	NTS: 104K/8	DATE:SEPT 20/1994
APPROVED BY: BD	FILE: BINGFIG9.DWG	FIGURE: 9
CANAMERA GEOLOGICAL LTD		



TAHLTAN HOLDINGS LTD.

BING PROPERTY
SOIL GEOCHEMISTRY
TOTAL Zn (ppm)

SCALE: 1:5000	NTS: 104K/8	DATE:SEPT 20/1994
APPROVED BY: BD	FILE: BINGFIG10.DWG	FIGURE: 10

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much more encouraging then the 1990 results. In general the gold values from the north grid suggest a diffuse low grade source.

Copper values (see figure 6) are strongly anomalous in the south eastern corner of the grid (1990 results). This area corresponds with an interpreted break in slope as indicated by the elevated extractable copper also in this area (see figure 7) and the topographic relief shown in figure 3. The median value of 125 ppm is in the authors experience anomaluosly high. Elevated copper values in general occur in a coherent large cluster in the southern area of the grid.

The qualitative extractable copper contours are significantly different from the patterns indicated by the qualitative total copper analyses. This suggests two separate modes of dispersion. Consideration of the topography enhances the interpretation of the extractable copper map confirming a hydrologic mode of transport from up slope sources.

The high to anomalous lead (see figure 8) values contour into southwest linear trends that correspond quite closely with the contacts of the quartz monzonite with the screens of dioritized metavolcanics shown in figure 3.

High to anomalous molybdenum values (figure 9) occur in the southeastern part of the grid as a relatively large coherent area that correlates strongly with a similar pattern for total copper (figure 6).

3.3) Discussion and Conclusions

Copper and molybdenum values correlate in indicating a diffuse source of these metals in the south and eastern parts of the present grid area. This anomaly is open to the south and east. The qualitative extractable copper survey results (Gutrath 1965a). suggests that at least in part this anomaly has been transported hydrologically .

Gold values from the 1993 survey give a significantly different response from the 1990 survey. This difference does not seem to have a lithologic cause but rather is suspected to be an artifact of the analysis. The 1993 results are encouraging as they introduce the possibility of there being significant gold associated with the known porphyry style copper and molybdenum mineralization.

3.4) Recommendations to Further Work

Results to date using soil geochemical techniques are encouraging and should be continued. Serious consideration should be given to covering the whole property with a gridline spacing of 200 meters to be followed up by the addition of 100 meter spaced lines where results warrant. Certainly the area of the present grid should be filled in with 100 m spaced east west grid lines and expanded to the south, east, and north (to cover the area of Moly Creek where much of the previous drilling was done).

Quantitative extractable analyses should be done on select samples to provide an understanding of the mode of occurrence of the geochemical anomalies (ie to what extent have they been transported by the down slope movement of water?).

The difference in the gold results from 1990 to 1994 should be investigated further. Filling in the present grid area with 100 meter spaced lines will confirm if in fact there is a sharp change in gold response from north to south. If a third lab were used in this future program they would act as an umpire to the two previous sets of analyses. The pulps from the 1993 program should be recovered for selective reanalysis as well.

If the 1990 analyses are found in error, the rock and drill core analyses that form a significant part of the conclusions regarding the tenure of known mineralization on the property should be reexamined.

4.0) REFERENCES

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5.0) COST STATEMENT

Personnel:				
Supervisor	2 days @		$350	700
Field Crew 2 men, 2 days @			$250	1000
Transportation:				
Helicopter	1.5 hrs @		$750	1125
Support:				
gear				
camp				
board				500
Analytical:				
66 samples @		$ 15/smpl		990
Report Preparation:				
Geologist	3 days @	$ 350/day		1050
Drafting 6 hours @		$30/ hr		180
Binding and clerical				200
			sub total	5745
plus 10 % overhead				574
			Total	6319

I, WILLIAM J. DYNES., of the City of Vancouver, Province of British Columbia , DO HEREBY CERTIFY THAT:

1. I am a geologist with offices at 540- 220 Cambie St., Vancouver, British Columbia.
2. I hold a Bachelor of Science Degree, Honors Geology from the University of British Columbia (1994).
3. I have been consistently involved in the practice of geoscience since 1981.
4. I personally supervised the work described in this report.

William J. Dynes

Dated Oct 11, 1994

APPENDIX 1

REPORT: V93-00743.0 (COMPLETE) REFERENCE:

CLIENT: CANAMERA GEOLOGICAL LTD. SUBMITTED BY: UNKNOWN
PROJECT: BING DATE PRINTED: 11-AUG-93

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
S SOIL	66	1 -80	66	DRY, SIEVE -80	66

REPORT COPIES TO: MR. JOHN DUPUIS
MR. BILL DYNES

INVOICE TO: MR. JOHN DUPUIS

REPORT: V93-00743.0 (COMPLETE) REFERENCE:

CLIENT: CANAMERA GEOLOGICAL LTD. SUBMITTED BY: UNKNOWN
PROJECT: BING DATE PRINTED: 11-AUG-93

ORDER		ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au	Gold	66	5 PPB	FIRE ASSAY	FIRE ASSAY @ 30 G
2	Ag	Silver	66	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
3	Cu	Copper	66	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
4	Pb	Lead	66	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
5	Zn	Zinc	66	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
6	Mo	Molybdenum	66	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
7	Ni	Nickel	66	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
8	Co	Cobalt	66	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
9	Cd	Cadmium	66	1.0 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
10	Bi	Bismuth	66	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
11	As	Arsenic	66	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
12	Sb	Antimony	66	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
13	Fe	Iron	66	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
14	Mn	Manganese	66	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
15	Te	Tellurium	66	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
16	Ba	Barium	66	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
17	Cr	Chromium	66	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
18	V	Vanadium	66	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
19	Sn	Tin	66	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
20	W	Tungsten	66	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
21	La	Lanthanum	66	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
22	Al	Aluminum	66	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
23	Mg	Magnesium	66	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
24	Ca	Calcium	66	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
25	Ga	Gallium	66	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
26	Na	Sodium	66	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
27	K	Potassium	66	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
28	Li	Lithium	66	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
29	Nb	Niobium	66	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
30	Sr	Strontium	66	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
31	Ta	Tantalum	66	100 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
32	Y	Yttrium	66	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
33	Ti	Titanium	66	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
34	Zr	Zirconium	66	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA

APPENDIX 2

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM
S1 L2+00S 2+00W		<5	<0.2	77	9	64	2	24	15	<1.0	<5	9	<5
S1 L2+00S 1+75W		<5	<0.2	126	15	68	10	26	17	<1.0	<5	14	<5
S1 L2+00S 1+50W		6	<0.2	136	11	68	8	28	19	<1.0	<5	8	<5
S1 L2+00S 1+25W		13	<0.2	117	3	68	11	35	23	<1.0	<5	9	<5
S1 L2+00S 1+00W		24	<0.2	147	10	58	5	21	18	<1.0	<5	8	<5
S1 L2+00S 0+75W		6	<0.2	90	4	80	3	31	21	<1.0	<5	12	7
S1 L2+00S 0+50W		9	<0.2	133	14	82	8	35	23	<1.0	<5	14	6
S1 L2+00S 0+25W		8	<0.2	150	9	77	5	37	24	1.0	<5	11	<5
S1 L2+00S 0+00E		7	<0.2	149	14	82	7	36	25	<1.0	<5	8	6
S1 L2+00S 0+25E		14	<0.2	152	39	91	7	29	21	<1.0	<5	15	<5
S1 L2+00S 0+50E		6	<0.2	117	8	87	<1	30	20	<1.0	<5	8	<5
S1 L2+00S 0+75E		<5	<0.2	118	5	71	4	32	22	<1.0	<5	8	7
S1 L2+00S 1+00E		12	<0.2	135	11	73	8	31	21	<1.0	<5	<5	5
S1 L2+00S 1+25E		81	<0.2	128	10	71	3	34	23	<1.0	<5	18	7
S1 L2+00S 1+50E		17	<0.2	96	12	84	7	27	18	<1.0	<5	<5	<5
S1 L2+00S 1+75E		9	<0.2	112	20	74	10	24	14	<1.0	<5	5	7
S1 L2+00S 2+00E		31	<0.2	138	33	74	7	21	17	<1.0	<5	10	<5
S1 L2+00S 2+25E		20	<0.2	122	38	73	5	18	14	1.3	<5	19	<5
S1 L2+00S 2+50E		20	<0.2	155	23	64	13	21	15	<1.0	<5	17	<5
S1 L2+00S 2+75E		16	<0.2	99	14	59	4	24	18	<1.0	<5	15	6
S1 L2+00S 3+00E		6	<0.2	70	11	72	<1	28	17	<1.0	<5	15	<5
S1 L2+00S 3+25E		<5	<0.2	103	29	76	7	26	17	<1.0	<5	<5	7
S1 L2+00S 3+50E		25	<0.2	106	9	60	1	24	14	<1.0	<5	<5	<5
S1 L2+00S 3+75E		127	<0.2	113	9	69	7	21	14	<1.0	<5	<5	<5
S1 L2+00S 4+00E		47	<0.2	113	14	75	<1	27	18	<1.0	<5	14	<5
S1 L2+00S 4+25E		12	<0.2	131	11	58	2	19	14	<1.0	<5	<5	<5
S1 L2+00S 4+50E		28	<0.2	125	10	96	2	33	18	<1.0	<5	<5	<5
S1 L2+00S 4+75E		16	<0.2	162	12	71	2	25	17	<1.0	<5	<5	<5
S1 L2+00S 5+00E		9	<0.2	119	10	62	2	20	14	<1.0	<5	<5	<5
S1 L2+00S 5+25E		29	<0.2	122	12	63	1	19	13	<1.0	<5	<5	<5
S1 L2+00S 5+50E		10	<0.2	93	8	67	<1	17	13	<1.0	<5	<5	<5
S1 L2+00S 5+75E		14	<0.2	104	15	62	<1	22	14	<1.0	<5	5	<5
S1 L2+00S 6+00E		8	<0.2	132	19	69	2	30	16	<1.0	<5	11	<5
S1 L4+00S 2+00W		20	<0.2	122	7	77	<1	35	21	<1.0	<5	<5	5
S1 L4+00S 1+75W		20	<0.2	113	12	70	<1	27	20	<1.0	<5	<5	<5
S1 L4+00S 1+50W		28	<0.2	183	12	61	<1	22	17	<1.0	<5	<5	<5
S1 L4+00S 1+25W		13	<0.2	86	6	93	<1	50	27	<1.0	<5	14	<5
S1 L4+00S 1+00W		13	<0.2	134	16	94	1	41	25	1.2	<5	17	6
S1 L4+00S 0+75W		16	<0.2	131	12	100	3	45	31	<1.0	<5	10	5
S1 L4+00S 0+50W		35	<0.2	287	23	66	68	28	21	<1.0	<5	28	<5

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SAMPLE NUMBER	ELEMENT UNITS	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT
S1 L2+00S 2+00W		3.33	546	<10	220	36	80	<20	<20	8	1.85	0.94	0.58
S1 L2+00S 1+75W		3.46	525	<10	190	43	97	<20	<20	9	2.35	1.20	0.38
S1 L2+00S 1+50W		3.40	452	<10	183	49	98	<20	<20	7	2.72	1.38	0.47
S1 L2+00S 1+25W		3.71	504	<10	198	63	117	<20	<20	5	3.37	1.93	0.41
S1 L2+00S 1+00W		3.68	339	<10	120	43	106	<20	<20	5	2.66	1.47	0.34
S1 L2+00S 0+75W		3.61	519	<10	198	62	105	<20	<20	6	2.95	1.64	0.45
S1 L2+00S 0+50W		3.53	696	<10	280	60	101	<20	<20	5	2.59	1.60	0.52
S1 L2+00S 0+25W		3.73	522	<10	353	75	132	<20	<20	3	3.31	2.04	0.43
S1 L2+00S 0+00E		3.70	601	<10	321	67	113	<20	<20	3	2.82	1.94	0.48
S1 L2+00S 0+25E		3.34	695	<10	262	55	98	<20	<20	4	2.40	1.53	0.47
S1 L2+00S 0+50E		3.58	543	<10	232	66	117	<20	<20	4	2.77	1.69	0.36
S1 L2+00S 0+75E		3.81	449	<10	154	69	139	<20	<20	4	3.30	1.85	0.26
S1 L2+00S 1+00E		3.66	455	<10	168	65	121	<20	<20	4	3.07	1.77	0.40
S1 L2+00S 1+25E		3.47	485	<10	198	64	108	<20	<20	3	2.47	1.73	0.42
S1 L2+00S 1+50E		3.18	522	<10	162	58	105	<20	<20	3	2.16	1.48	0.41
S1 L2+00S 1+75E		3.06	397	<10	92	72	89	<20	<20	3	2.07	1.07	0.33
S1 L2+00S 2+00E		3.31	380	<10	187	40	100	<20	<20	4	2.40	1.27	0.36
S1 L2+00S 2+25E		3.20	363	<10	149	42	87	<20	<20	5	2.26	1.00	0.32
S1 L2+00S 2+50E		3.05	318	<10	105	46	86	<20	<20	5	2.30	1.11	0.37
S1 L2+00S 2+75E		3.31	514	<10	121	41	82	<20	<20	7	1.90	1.04	0.34
S1 L2+00S 3+00E		3.35	661	<10	203	46	77	<20	<20	9	1.90	1.03	0.74
S1 L2+00S 3+25E		3.48	562	<10	173	49	95	<20	<20	5	2.27	1.30	0.41
S1 L2+00S 3+50E		3.18	349	<10	90	45	79	<20	<20	5	2.35	1.12	0.34
S1 L2+00S 3+75E		3.22	398	<10	112	45	89	<20	<20	6	2.17	1.09	0.29
S1 L2+00S 4+00E		3.85	529	<10	163	47	102	<20	<20	8	2.55	1.40	0.38
S1 L2+00S 4+25E		3.20	414	<10	82	46	95	<20	<20	5	2.10	1.16	0.33
S1 L2+00S 4+50E		3.71	461	<10	120	53	99	<20	<20	6	2.44	1.43	0.47
S1 L2+00S 4+75E		3.57	514	<10	75	42	94	<20	<20	5	2.29	1.28	0.27
S1 L2+00S 5+00E		3.46	459	<10	68	33	90	<20	<20	5	2.19	1.07	0.27
S1 L2+00S 5+25E		3.63	339	<10	56	38	91	<20	<20	5	2.15	1.05	0.27
S1 L2+00S 5+50E		3.63	395	<10	53	33	84	<20	<20	5	2.34	1.00	0.24
S1 L2+00S 5+75E		3.65	382	<10	83	40	90	<20	<20	6	2.61	1.21	0.41
S1 L2+00S 6+00E		4.25	494	<10	98	47	102	<20	<20	7	2.28	1.41	0.53
S1 L4+00S 2+00W		4.52	605	<10	283	62	123	<20	<20	6	3.05	1.95	0.63
S1 L4+00S 1+75W		3.74	476	<10	147	48	99	<20	<20	5	2.81	1.58	0.36
S1 L4+00S 1+50W		3.39	369	<10	140	45	104	<20	<20	4	2.99	1.61	0.38
S1 L4+00S 1+25W		4.96	639	<10	299	81	117	<20	<20	4	3.49	2.24	0.49
S1 L4+00S 1+00W		4.92	665	<10	345	75	125	<20	<20	3	3.29	2.03	0.51
S1 L4+00S 0+75W		5.10	716	<10	404	87	137	<20	<20	2	3.50	2.26	0.49
S1 L4+00S 0+50W		4.80	480	<10	207	52	113	<20	<20	5	2.85	1.55	0.30

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SAMPLE NUMBER	ELEMENT UNITS	Ga PPM	Na PCT	K PCT	Li PPM	Nb PPM	Sr PPM	Ta PPM	Y PPM	Ti PCT	Zr PPM
S1 L2+00S 2+00W		5	0.02	0.08	7	2	27	<100	10	0.08	<1
S1 L2+00S 1+75W		8	0.02	0.11	9	2	27	<100	12	0.10	<1
S1 L2+00S 1+50W		9	0.02	0.13	10	2	27	<100	10	0.12	<1
S1 L2+00S 1+25W		11	0.02	0.22	14	3	25	<100	8	0.21	<1
S1 L2+00S 1+00W		12	0.02	0.12	10	2	18	<100	7	0.14	<1
S1 L2+00S 0+75W		9	0.02	0.16	12	3	27	<100	9	0.17	2
S1 L2+00S 0+50W		8	0.02	0.25	11	3	38	<100	6	0.18	2
S1 L2+00S 0+25W		12	0.03	0.38	14	3	30	<100	6	0.25	<1
S1 L2+00S 0+00E		9	0.02	0.61	13	3	36	<100	5	0.23	<1
S1 L2+00S 0+25E		7	0.02	0.40	12	2	35	<100	5	0.13	<1
S1 L2+00S 0+50E		9	0.02	0.22	10	2	27	<100	6	0.17	<1
S1 L2+00S 0+75E		12	0.02	0.22	12	3	19	<100	7	0.20	<1
S1 L2+00S 1+00E		11	0.02	0.12	11	3	30	<100	8	0.20	<1
S1 L2+00S 1+25E		9	0.03	0.24	11	2	33	<100	5	0.16	<1
S1 L2+00S 1+50E		8	0.03	0.19	9	2	18	<100	5	0.11	<1
S1 L2+00S 1+75E		8	0.02	0.11	8	3	15	<100	5	0.10	<1
S1 L2+00S 2+00E		8	0.02	0.15	9	3	20	<100	6	0.14	1
S1 L2+00S 2+25E		8	0.02	0.08	8	3	21	<100	6	0.10	1
S1 L2+00S 2+50E		8	0.02	0.08	8	2	19	<100	5	0.11	1
S1 L2+00S 2+75E		6	0.01	0.09	7	2	20	<100	7	0.09	<1
S1 L2+00S 3+00E		4	0.02	0.09	6	2	28	<100	14	0.06	<1
S1 L2+00S 3+25E		7	0.02	0.12	9	2	20	<100	6	0.08	<1
S1 L2+00S 3+50E		7	0.01	0.11	8	2	15	<100	6	0.11	1
S1 L2+00S 3+75E		8	0.01	0.09	7	2	22	<100	7	0.10	<1
S1 L2+00S 4+00E		9	0.02	0.15	10	2	18	<100	8	0.09	<1
S1 L2+00S 4+25E		8	0.02	0.14	9	2	12	<100	5	0.12	<1
S1 L2+00S 4+50E		7	0.02	0.11	10	2	21	<100	8	0.09	<1
S1 L2+00S 4+75E		7	0.01	0.11	9	1	15	<100	6	0.09	<1
S1 L2+00S 5+00E		6	0.02	0.09	8	2	13	<100	7	0.08	<1
S1 L2+00S 5+25E		8	0.02	0.09	8	2	15	<100	5	0.08	<1
S1 L2+00S 5+50E		7	0.02	0.08	8	2	13	<100	6	0.06	<1
S1 L2+00S 5+75E		7	0.02	0.09	9	2	18	<100	8	0.08	1
S1 L2+00S 6+00E		7	0.02	0.10	9	2	24	<100	13	0.09	<1
S1 L4+00S 2+00W		10	0.03	0.21	12	2	34	<100	10	0.18	<1
S1 L4+00S 1+75W		8	0.02	0.24	11	2	25	<100	8	0.15	<1
S1 L4+00S 1+50W		10	0.02	0.30	12	2	25	<100	6	0.16	<1
S1 L4+00S 1+25W		11	0.01	0.29	10	3	28	<100	5	0.21	<1
S1 L4+00S 1+00W		11	0.02	0.39	13	2	47	<100	5	0.19	<1
S1 L4+00S 0+75W		12	0.02	0.56	13	3	42	<100	4	0.27	<1
S1 L4+00S 0+50W		11	0.01	0.25	9	2	30	<100	6	0.13	<1

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM
S1 L4+00S 0+25W		27	<0.2	134	11	80	1	39	27	<1.0	<5	18	<5
S1 L4+00S 0+00W		15	<0.2	157	25	76	8	35	22	<1.0	<5	21	<5
S1 L4+00S 0+25E		9	<0.2	87	5	90	<1	50	29	<1.0	<5	9	<5
S1 L4+00S 0+50E		✓ 327	<0.2	181	69	101	5	32	25	<1.0	<5	20	9
S1 L4+00S 0+75E		23	<0.2	112	12	79	<1	32	25	<1.0	<5	27	<5
S1 L4+00S 1+00E		36	<0.2	167	25	86	6	21	22	1.2	<5	18	8
S1 L4+00S 1+25E		21	<0.2	152	24	76	<1	25	19	<1.0	<5	15	<5
S1 L4+00S 1+50E		8	<0.2	112	10	80	<1	34	23	<1.0	<5	6	<5
S1 L4+00S 1+75E		17	<0.2	161	17	69	<1	30	24	<1.0	<5	22	6
S1 L4+00S 2+00E		11	<0.2	123	13	73	1	33	21	<1.0	<5	9	<5
S1 L4+00S 2+25E		20	<0.2	279 ✓	30	82	9	31	19	<1.0	<5	24	<5
S1 L4+00S 2+50E		13	<0.2	146	28	87	5	31	20	<1.0	<5	19	<5
S1 L4+00S 2+75E		15	<0.2	143 ✓	22	77	5	24	15	<1.0	<5	19	<5
S1 L4+00S 3+00E		21	<0.2	241	15	69	5	28	20	<1.0	<5	21	<5
S1 L4+00S 3+25E		12	<0.2	130	<2	17	22	35	16	<1.0	8	8	8
S1 L4+00S 3+50E		✓ 62	<0.2	84	29	72	9	30	16	<1.0	<5	14	7
S1 L4+00S 3+75E		43	<0.2	107	8	68	6	29	14	<1.0	<5	9	<5
S1 L4+00S 4+00E		24	<0.2	84	10	83	9	24	16	<1.0	<5	11	<5
S1 L4+00S 4+25E		36	<0.2	58	8	93	6	19	13	<1.0	<5	15	<5
S1 L4+00S 4+50E		24	<0.2	139	13	62	4	21	13	<1.0	<5	7	<5
S1 L4+00S 4+75E		8	<0.2	48	8	42	9	14	11	<1.0	<5	10	<5
S1 L4+00S 5+00E		11	<0.2	135	10	69	31	24	16	<1.0	<5	17	<5
S1 L4+00S 5+25E		14	<0.2	146	11	52	19	20	16	<1.0	<5	14	<5
S1 L4+00S 5+50E		8	<0.2	74	9	113	29	19	13	<1.0	<5	<5	<5
S1 L4+00S 5+75E		12	<0.2	127	10	112	37	18	12	<1.0	<5	11	<5
S1 L4+00S 6+00E		12	<0.2	111	16	47	2	27	15	<1.0	<5	11	<5

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SAMPLE NUMBER	ELEMENT UNITS	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT
S1 L4+00S 0+25W		5.10	617	<10	261	72	136	<20	<20	3	3.57	2.12	0.42
S1 L4+00S 0+00W		4.44	543	<10	217	69	115	<20	<20	3	2.94	1.81	0.47
S1 L4+00S 0+25E		5.01	528	<10	279	93	159	<20	<20	3	3.89	2.65	0.72
S1 L4+00S 0+50E		4.83	655	<10	213	57	118	<20	<20	3	2.78	1.75	0.56
S1 L4+00S 0+75E		4.76	520	<10	209	60	129	<20	<20	3	2.97	1.81	0.47
S1 L4+00S 1+00E		4.91	476	<10	221	41	135	<20	<20	4	3.16	1.81	0.46
S1 L4+00S 1+25E		4.43	472	<10	294	46	106	<20	<20	6	2.33	1.37	0.76
S1 L4+00S 1+50E		4.88	658	<10	145	58	125	<20	<20	3	3.21	1.78	0.58
S1 L4+00S 1+75E		4.93	690	<10	115	49	118	<20	<20	4	2.73	1.37	0.54
S1 L4+00S 2+00E		4.49	660	<10	183	58	116	<20	<20	5	2.66	1.58	1.09
S1 L4+00S 2+25E		4.53	554	<10	197	49	107	<20	<20	8	2.65	1.40	0.53
S1 L4+00S 2+50E		4.30	628	<10	133	60	115	<20	<20	6	2.77	1.57	0.35
S1 L4+00S 2+75E		4.06	438	<10	106	42	94	<20	<20	6	2.28	1.15	0.25
S1 L4+00S 3+00E		3.95	570	<10	187	48	99	<20	<20	8	2.34	1.25	0.34
S1 L4+00S 3+25E		4.17	469	<10	195	63	109	<20	<20	11	3.08	1.37	0.34
S1 L4+00S 3+50E		3.92	417	<10	177	50	85	<20	<20	6	2.07	1.26	0.37
S1 L4+00S 3+75E		3.39	404	<10	193	54	95	<20	<20	7	2.09	1.47	0.87
S1 L4+00S 4+00E		4.24	493	<10	177	42	100	<20	<20	4	1.80	1.23	0.37
S1 L4+00S 4+25E		3.94	446	<10	185	34	84	<20	<20	5	1.41	1.00	0.37
S1 L4+00S 4+50E		3.54	460	<10	157	34	77	<20	<20	14	1.95	0.99	0.35
S1 L4+00S 4+75E		2.99	280	<10	135	23	64	<20	<20	5	1.16	0.81	0.25
S1 L4+00S 5+00E		3.83	476	<10	163	40	94	<20	<20	8	1.88	1.25	0.67
S1 L4+00S 5+25E		3.43	638	<10	154	35	82	<20	<20	8	1.59	1.20	1.06
S1 L4+00S 5+50E		3.59	313	<10	71	34	72	<20	<20	6	1.54	1.02	0.42
S1 L4+00S 5+75E		3.17	421	<10	147	32	71	<20	<20	10	1.45	1.01	0.97
S1 L4+00S 6+00E		3.69	640	<10	65	42	79	<20	<20	9	2.13	1.04	0.35

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SAMPLE NUMBER	ELEMENT UNITS	Ga PPM	Na PCT	K PCT	Li PPM	Nb PPM	Sr PPM	Ta PPM	Y PPM	Ti PCT	Zr PPM
S1 L4+00S 0+25W		14	0.03	0.39	14	3	41	<100	6	0.21	<1
S1 L4+00S 0+00W		10	0.02	0.32	10	2	27	<100	5	0.17	<1
S1 L4+00S 0+25E		15	0.04	0.33	14	2	38	<100	6	0.18	<1
S1 L4+00S 0+50E		10	0.02	0.32	12	2	42	<100	5	0.15	<1
S1 L4+00S 0+75E		11	0.03	0.21	11	2	31	<100	5	0.20	<1
S1 L4+00S 1+00E		11	0.02	0.24	10	2	25	<100	6	0.22	<1
S1 L4+00S 1+25E		10	0.03	0.13	8	2	41	<100	6	0.14	<1
S1 L4+00S 1+50E		10	0.02	0.15	10	2	24	<100	5	0.17	<1
S1 L4+00S 1+75E		9	0.03	0.11	9	2	23	<100	6	0.13	<1
S1 L4+00S 2+00E		9	0.05	0.18	7	2	37	<100	9	0.14	<1
S1 L4+00S 2+25E		10	0.02	0.11	10	2	19	<100	7	0.08	<1
S1 L4+00S 2+50E		10	0.01	0.10	8	2	14	<100	7	0.11	<1
S1 L4+00S 2+75E		9	<0.01	0.07	7	2	12	<100	6	0.07	<1
S1 L4+00S 3+00E		8	0.01	0.10	7	2	17	<100	9	0.09	<1
S1 L4+00S 3+25E		15	0.02	0.14	21	1	42	<100	18	0.10	<1
S1 L4+00S 3+50E		8	0.01	0.06	6	1	51	<100	7	0.07	<1
S1 L4+00S 3+75E		7	0.04	0.06	8	2	177	<100	11	0.12	<1
S1 L4+00S 4+00E		9	<0.01	0.08	6	2	50	<100	5	0.09	<1
S1 L4+00S 4+25E		8	<0.01	0.06	4	1	54	<100	6	0.06	<1
S1 L4+00S 4+50E		6	<0.01	0.05	4	1	48	<100	16	0.05	<1
S1 L4+00S 4+75E		6	<0.01	0.05	4	<1	25	<100	5	0.04	<1
S1 L4+00S 5+00E		7	0.03	0.08	9	1	122	<100	12	0.09	<1
S1 L4+00S 5+25E		4	0.05	0.07	6	2	196	<100	13	0.08	<1
S1 L4+00S 5+50E		6	<0.01	0.05	7	1	51	<100	7	0.06	<1
S1 L4+00S 5+75E		3	0.02	0.05	7	2	226	<100	14	0.04	<1
S1 L4+00S 6+00E		4	0.02	0.06	6	1	17	<100	13	0.07	<1