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**THE GEOLOGICAL AND GEOCHEMICAL REPORT
ON THE GOLDEN CREST 1,2,3,4 CLAIM GROUP**

in the

Skeena Mining Division

for

Navarre Resources Corporation,
201-744 W. Hastings St.,
Vancouver, B.C. V6C 1A5

by

Andris Kikauka, B.Sc., F.G.A.C.

Dec. 5, 1990

LOG NO: May 14/91	RD.
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FILE NO:	

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

20,696

Geology only
approved.
Geochem. sample
locations unreliable,
and results not plotted
T.K.

STATEMENT OF COSTS

On the Golden Crest Claim Group, Skeena Mining Division

FIELD CREW:

A. Kikauka (Geologist) July 28-31,@350/day	\$ 1,400
K. Antoniak (Geotechnician) July 28-31,@125/day	500
C. Antoniak (Geotechnician) July 28-31,@100/day	400
H. Ball (Geotechnician) July 28-31,@100/day	400
Food/Lodging/Fuel/Equipment,@ 60/man/day	960

SERVICES:

Helicopter Support (+fuel), 3 hrs.@775/hr.	2,325
Geochemical Analysis (Acme), 120 X 13/sample	1,560
Report	<u>500</u>
Total=	8,045

SUMMARY

The Golden Crest 1,2,3,4 Claim Group consists of 4 contiguous mineral claims comprising 18 units. The claims are located 15 km. east-northeast of Alice Arm, and lie within the Skeena Mining Division.

The claims are within the southeast edge of the "Stewart Complex", which consists of Mesozoic volcanics and sediments that are intruded by younger intrusives. This complex hosts numerous major mineral deposits such as Torbit-Dolly Varden and B.C. Moly, for which the townsites of Alice Arm and Kitsault have been developed. Several other major mineral deposits occur within 25 km. of Alice Arm.

Geological mapping indicated the presence of major north-northeast trending shear zones up to 2 m. wide that contain quartz-pyrite with minor ankerite-calcite-graphite, and trace amounts of arsenopyrite. A sample of one of these shear zones assayed 45.3 g/t Ag, 1.65 g/t Au, across 0.4 m. These shear zones have a near vertical attitude and are traceable for up to 400 m. along strike.

Government stream sediment surveys indicate multielement (Cu-Zn-Ag-As-Mo-Hg) geochemical highs occur on the Golden Crest Claim Group. A follow up geochemical survey of these anomalous values led to the identification of 3 new areas; 1) a Cu-Au-As geochemical high along the base line of the southern portion of the grid area, 2) a Zn-Au-Ag geochemical high in the northeast portion of the grid area, 3) a Ag-Zn-Mo geochemical high in the northwest portion of the grid.

In a comparison of geochemical data from other prospects and mines in the area, the values obtained on the Golden Crest claims were encouraging. The presence of strong, linear, and well defined shear zones that host gold-silver bearing mineralization is also encouraging. For these reasons a second phase of exploration is recommended. Phase 2 involves detailed geological, geophysical, and geochemical surveys. A proposed budget of \$20,000 would be required to complete phase 2. Contingent on phase 2 results, a third phase of exploration involving diamond drilling is recommended.

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- Fig. 12 Soil and Silt Sample Locations
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1.0 INTRODUCTION

This report summarizes the field work performed on the Golden Crest 1,2,3,4 Claim Group carried out on July 28-31, 1990. The author, Mr. Andris Kikauka, planned and supervised all fieldwork and was present on the subject claims from July 28-31, 1990.

2.0 LOCATION, ACCESS, TOPOGRAPHY

The Golden Crest Claims are located approximately 15 km. east-northeast of the head of Alice Arm. The elevation of the claims range from 790-1280 m. above sea level. The Shishilabet Lakes, which form a chain of lakes within the claim, drain into the Nass River to the southeast. The west portion of the claims are within the Illiance R. drainage which flows west to Alice Arm (fig. 3).

The topography is dominated by the steeper, deeply incised mountains of the "Stewart Complex" to the north and west (Illiance R.), and the relatively gentle, less abrupt mountains to the south and east (Nass R.). The property lies on the contact of the mixed volcanic, sedimentary, and plutonic rocks of the "Stewart Complex" to the north and west, and the sediments of the Nass River Formation to the south and east (fig. 4).

Access to the claims is gained by helicopter. There are unlimited landing sites above 1,000 m. elevation (tree line) and in flat areas near the lakes at elevations below 1,000 m. There is a well maintained road to access Kitsault, Alice Arm, located 15 km. to the west.

3.0 PROPERTY STATUS

The Golden Crest 1,2,3,4 claim group consists of 4 contiguous claims originally comprising 80 units located in the Skeena Mining Division. The claims block was reduced to 18 units, reflecting the limits of known mineralization and previous claims that overlap the Golden Crest claims. The claims are owned by Navarre Resources Corp.

Claim Name	# of units	Record #	Record Date	Expiry Date
Golden Crest 1	3	8279	Dec.20,89	Dec.20,92
Golden Crest 2	6	8280	Dec.20,89	Dec.20,92
Golden Crest 3	3	8281	Dec.20,89	Dec.20,92
Golden Crest 4	6	8282	Dec.20,89	Dec.20,92

The total area of this claim group is 450 hectares.

4.0 AREA HISTORY

Major mineral deposits located in the vicinity of Alice Arm include Anyox, Torbit-Dolly Varden, B.C.Moly, and Maple Bay. These deposits are located 12-40 km. north and west of the Golden Crest claims.

The Anyox massive sulphide deposit produced in excess of 30 million tons of ore which averaged 1.7 g/t Au, 9.3 g/t Ag, 1.5% Cu, and 0.5% Pb-Zn. The mineralization occurs as lenses near the contact of basaltic pillow lavas overlain by clastic sediments.

The Torbit-Dolly Varden silver deposit consists of a network of mineralized quartz veins emplaced along shear zones in fractured volcanic and sedimentary rocks. Total historic production was 1,284,882 tons grading 485 g/t Ag, 0.4% Pb, and 0.02% Zn. Current reserves are listed at 515,350 tons @ 378.1 g/t Ag (proven, probable). Mineralization consists of sphalerite, galena, pyrite, tetrahedrite, and pyrargyrite.

The B.C. Moly deposit contains mineral reserves of 10-20 million tons of 0.3% molybdenum. Mineralization occurs as disseminations in a ring shaped zone within a calc-alkaline intrusive complex. A functional 1,700 tpd mill and recently constructed townsite are idle and await improved economics to make use of the modern facilities.

The Maple Bay Copper deposit consists of a series of quartz veins averaging 1.5% Cu. These veins are characterized by above average lateral and vertical continuity. One of these veins, known as the "Outsider", produced 138,854 tons of 2.0% Cu, with very minor amounts of Au-Ag.

The Monarch, Silver Bar, Grey Goose, etc. prospects located 5 km. northwest of the Golden Crest claims (near the headwaters of the Illiance R.), have been sporadically worked since 1916. Numerous quartz-carbonate-sulphide veins are highlighted by high grade silver (up to 113.2 oz/t) with corresponding high values of Pb-Zn (up to 26% combined).

A government regional survey analyzed numerous elements (with the exception of Au) in stream sediments. In an area 10-15 km. east, north, and south of Alice Arm, above average Cu-Pb-Zn-Ag-Mo-Hg-As-Fe-Mn-W-Co trace element values were obtained. This multi-element assemblage is an indication that many varieties of mineralization are present in the area.

Historically the Alice Arm area has been active in mining activity for the past 90 years. With the increase of activity within the "Stewart Complex" mineral belt, this area will likely be examined in greater detail over the next

few years.

5.0 PROPERTY HISTORY

The "Golden Crest" prospect is described in the 1917 Minister of Mines Annual Report ; "The formation is said to be 500 feet wide, and an assay is reported from the east side contact which ran 2% copper, \$3.20 gold, and 40 cents silver. This was not seen. It is said to get better when shot into." Further work on this zone in the 1930's encountered a 4 foot wide zone assaying 0.02 oz/t Au, 0.2 oz/t Ag, 0.01% Cu. This showing is currently staked by the Lance 5,6 claims immediately northwest, and overlapping the Golden Crest Claim Group. This showing is also referred to as the "Iron and Beaver Extension" prospects.

The only recorded mineral assessment on the Golden Crest claim area consisted of limited soil and rock sampling on the ridges immediately east of Shishilabet Lakes, by JMT Corp. (Howell, W.A., 1980). Sporadic soil sampling (in an area now covered by the Golden Crest 1 claim) indicated some significant Zn-Ag-Au-Mo values were encountered on the Par 1-8 claims. This area was not examined by the recent work program and requires follow-up.

The RGS-2-1978 regional stream sediment survey indicated that 2 samples taken on the Golden Crest claims returned well above average values of Zn-Cu-Ag-Mo-As-Hg (fig. 6). Of the 1778 samples taken in this survey (covering an area approximately 400 sq. km. south of Stewart), the values obtained from sampling on the Golden Crest claim were significantly anomalous. Several strands of well weathered flagging tape found on the stream beds suggest the Golden Crest claims were investigated following the release of data from the RGS survey.

6.0 GENERAL GEOLOGY

The Stewart Complex includes a thick sequence of mainly late Triassic to late Middle Jurassic volcanic, sedimentary, and metamorphic rocks. These have been intruded and cut by a mainly granitic to syenitic suite of Lower Jurassic through Tertiary plutons which together form part of the Coast Range plutonic complex. Deformation, in part related to intrusive activity has produced complex fold structures along the main intrusive contacts with simple open folds and warps dominant along the east side of the complex. Cataclasis marked by strong north-south structures are prominent structural features that cut all pre-Jurassic units.

Country rocks in the general Stewart area comprise mainly Hazleton Group strata which includes the Lower Jurassic Unuk

Fm., the Middle Jurassic Betty Creek and Salmon R. Fm., and the Upper Jurassic Nass R. Fm. (Grove, 1971, 1986). In the general Stewart area, the Unuk R. Fm. strata includes mainly fragmental andesitic volcanics, epiclastic volcanics, and minor volcanic flows. Widespread Aalenian uplift and erosion was followed by deposition of the partly marine volcanoclastic Betty Ck. Fm., the mixed Salmon R. Fm., and the dominantly shallow marine Nass R. Fm.

Intrusive activity in the Stewart area has been marked by Lower to Middle Jurassic Texas Ck. granodiorite with which many ore deposits, including the Silbak-Premier and Big Missouri, are associated. Younger intrusions include the extensive Hyder Quartz Monzonite and the many Tertiary dyke swarms which form a large part of the Coast Plutonic Complex. Mineral deposits such as the B.C. Molybdenum deposit at Alice Arm and a host of smaller deposits are localized in or related to these 48-52 m. y. plutons which include part of the regionally extensive Portland Canal Dyke Swarm (Grove, 1986).

Northwest and northeast trending faults transect the Kitsault R. area. Displacements are relatively small on a regional scale. Many of these faults have been intruded by Tertiary diorite and lamprophyre dykes (Dawson, 1986).

7.0 1990 FIELD PROGRAM

7.1 SCOPE AND PURPOSE

From July 28-31, 1990, one geologist and three geotechnicians carried out geological and geochemical surveys on the Golden Crest Claim Group.

The purpose of this program was;

- a) to cover the property with detailed geological and geochemical surveys to evaluate the mineral potential of the claim group.
- b) systematically sample mineralization.

7.2 METHODS AND PROCEDURES

Utilizing a compass and hip chain a flagged grid was established on the Golden Crest 3,4 claims (fig. 3). Using the main north-south creek valley as a base line, and the intersection of two major tributary creeks for control, the grid lines were extended 150 m. east and west of the base line @ 50 m. spacing. A total of 2.3 km. of line grid was surveyed.

Using a grub hoe, soil samples were collected from the B horizon of the soil profile. The average sample depth was 30 cm., and a total 107 soil samples were taken along the grid

@ 25 m. spacing.

Using a -20 mesh screen and a shovel, stream sediment fines were collected in the active channel of 0.2-2.5 m. wide streams. Samples were collected in paper bags and dried. A total of 9 samples were taken.

Geological mapping was restricted to creek and river bedrock exposures, and drawn at a scale of 1:10,000.

8.0 RESULTS

8.1 GEOLOGY AND MINERALIZATION

Geological mapping has identified Upper and/or Middle Jurassic sediments comprise the most of the underlying bedrock. The sediments are part of either the Salmon R. Fm. and/or the Nass R. Fm., which are composed of a sequence of siltstone-sandstones-greywacke-calcarenite-conglomerate-limestone. This well bedded sequence has been intruded by andesitic and felsic dykes (1-5 m. wide) that trend parallel to the dominant north-northeast trending, steeply dipping stratigraphy. The dykes have invaded shear zones in the sediments where graphite and other carbonaceous material is present.

Considerable fracturing of the sedimentary bedrock was observed in shear zones and along dyke contacts. Development of quartz-sulphide mineralization was present in fractures within the shear zones that have an average width of 2 m. One sample from a quartz breccia (with minor pyrite-arsenopyrite-ankerite-calcite) returned an assay of 1.65 g/t Au, 45.3 g/t Ag, across a width of 0.4 m. This zone occurs at the intersection of two shear zones. The main shear trends 020 and roughly follows the base line. Tracing the shear zone south, up the creek, a zone of graphite and pyrite, as well as a felsic dyke was encountered. Other sampled mineralization included quartz and pyrite hosted by fractured, argillaceous siltstone.

8.2 GEOCHEMISTRY

Examination of the pattern of geochemical highs reveals a zone of relatively high Cu-Au-As values in the south-central portion of the grid area, a zone of relatively high Zn-Ag-Au in the northeast portion of the grid, and a zone of relatively high Zn-Ag-Mo in the northwest portion of the grid.

The Cu-Au-As zone, along the base line in the south portion of the grid, has values up to 285 ppm Cu, 1572 ppm As, and 400 ppb Au. This zone coincides with a series of andesite dykes, with localized shear zones and related quartz-

sulphide mineralization. This area requires follow up prospecting, trenching and geological mapping to outline gold bearing shear zones.

The Zn-Ag-Au zone along the east half of L5+50N to L6+50N coincides with quartz-pyrite-arsenopyrite-ankerite mineralization (sample 52507). This geochemical high may represent the north east extension of the mineralization observed in the creekbed.

The results of the geochemistry is detailed in figures 7-11.

9.0 CONCLUSION

The Golden Crest Claim Group has potential for hosting an economic deposit of Cu-Zn-Ag-Au for the following reasons;

1) Geological mapping indicates the presence of major shear zones that contain significant gold-silver mineralization. These shear zones can be traced for 400 m. and have an average width of 2 m.

2) Geochemical highs of Cu-Ag-Au-As-Zn-Mo occur across the grid area. These zones roughly coincide with the surface trace of the shear zones.

3) Numerous mineral deposits in the Alice Arm area are related to shear zones. Several Cu-Pb-Zn-Ag-Au mineral occurrences, localized along shear zones, are located in the nearby Illiance R.

4) The claims are relatively close to mining and milling infrastructure located at Kitsault, Alice Arm.

10.0 RECOMMENDATIONS

A second phase of mineral exploration is recommended to provide detailed follow up of geochemical anomalies, known occurrences of mineralization, and historically reported mineralization. The following work program is recommended;

1) Detailed geochemical surveys (soil and stream sediment) covering geochemical anomalies outlined in the 1990 field program.

2) Regional geochemical surveys to cover areas outside of the 1990 field program, e.g. previously reported mineral zones east of Shishilabet Lake.

3) Geophysical surveys (magnetics and conductivity) to cover 1990 grid area.

4) Detailed geological mapping to trace mineralized shear

zones.

5) Trenching in areas of mineralization, and/or geophysical, and geochemical anomalies.

Contingent on phase 2 results, a third phase of exploration, including diamond drilling is recommended.

11.0 PROPOSED BUDGET

PHASE 2

Geologist and 3 geotechnicians (10 days)	\$ 6,500
Geophysical survey (20 km.)	4,000
Assays	2,000
Trenching	2,000
Camp costs	3,000
Helicopter support	2,000
Report	500
Phase 2 total	<u>20,000</u>

PHASE 3

Diamond drilling (1000 m.)	\$100,000
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Respectfully submitted;



Andris Kikauka, B.Sc., F.G.A.C.

REFERENCES:

- Alldrick, D.J., 1987, Stratigraphy and Petrology of the Stewart Mining Camp. Min. of E.M.&P. Res. Report of Geological Fieldwork.
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- Howell, W.A., 1980, Report on the Ace, Par, and Hazard Claims, for JMT Corp., Assessment Report # 8774, B.C. Min. of E.M.&P. Res.
- Schroeter, T.G., 1984, Lode Gold and Silver Deposits in N.W.B.C., B.C. Min. of E.M.&P. Res.

STATEMENT OF QUALIFICATIONS

I, Andris Kikauka, do hereby declare that;

- I graduated from Brock University, Faculty of Geological Sciences, St. Catharines, Ontario, 1979, receiving Honours B.Sc., First Class.
- From 1976-79 have performed geological fieldwork for uranium on the Canadian Shield.
- From 1979-90 have performed geological fieldwork for precious metal and base metal on the cordillera of Western Canada.
- I am a fellow in good standing with the Geological Association of Canada.
- Personally participated in the field work of this report, reviewed and assessed the data.
- I have no direct interest in the subject claims or the securities of Navarre Resources Corp.
- I consent to the use of this report in a Prospectus of material facts for the purpose of private or public financing.

Respectfully submitted;



Andris Kikauka, B.Sc., F.G.A.C.

BRITISH COLUMBIA

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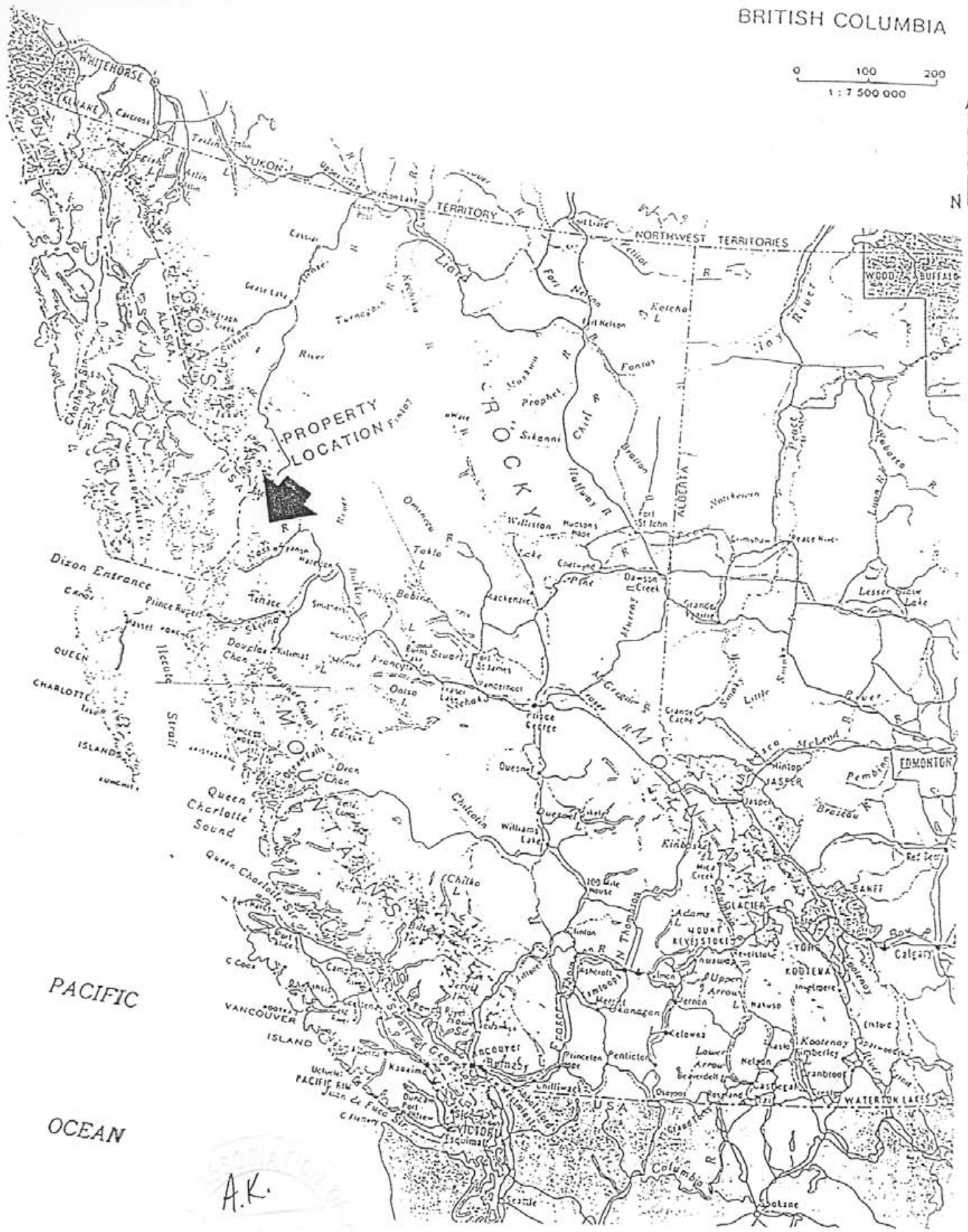
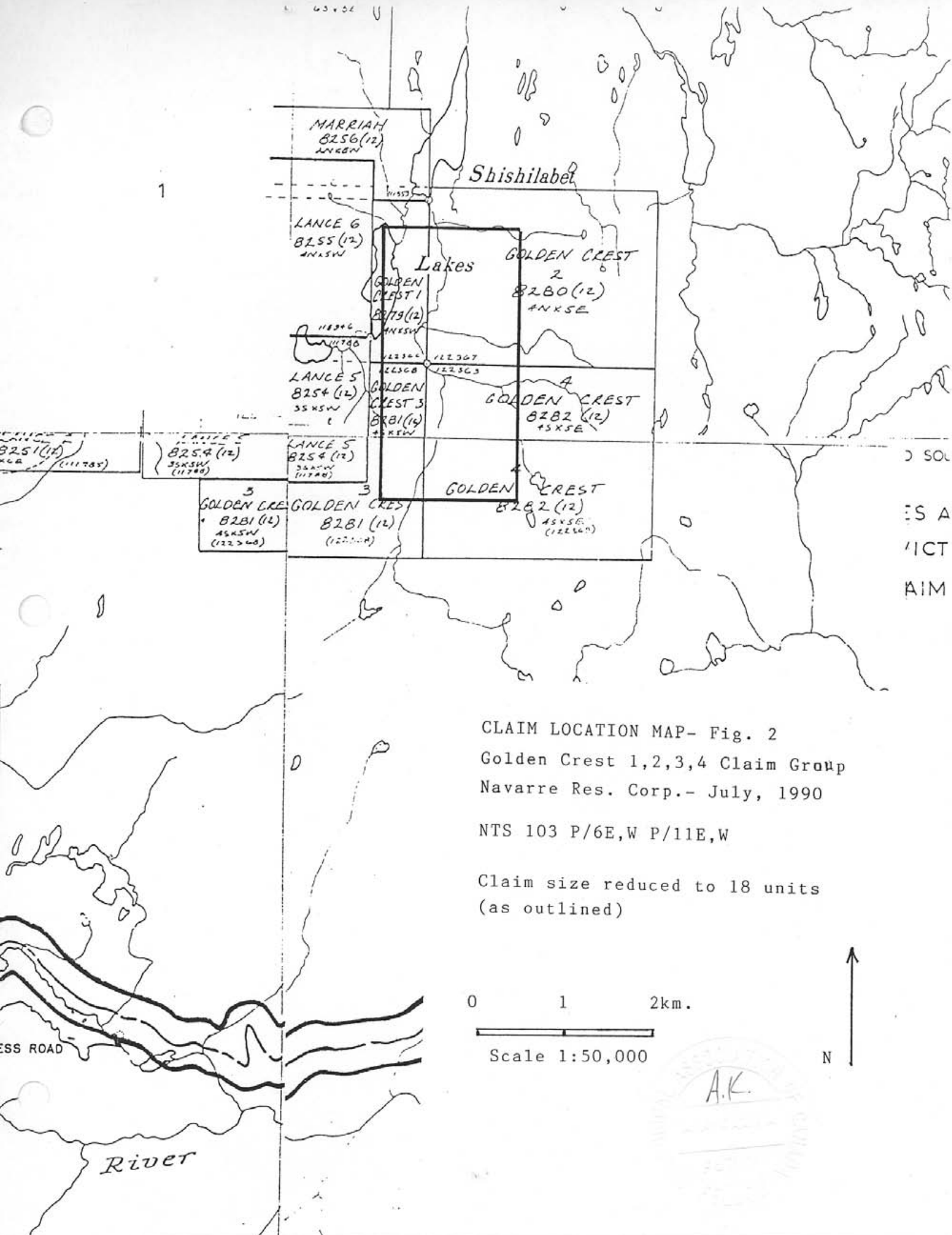


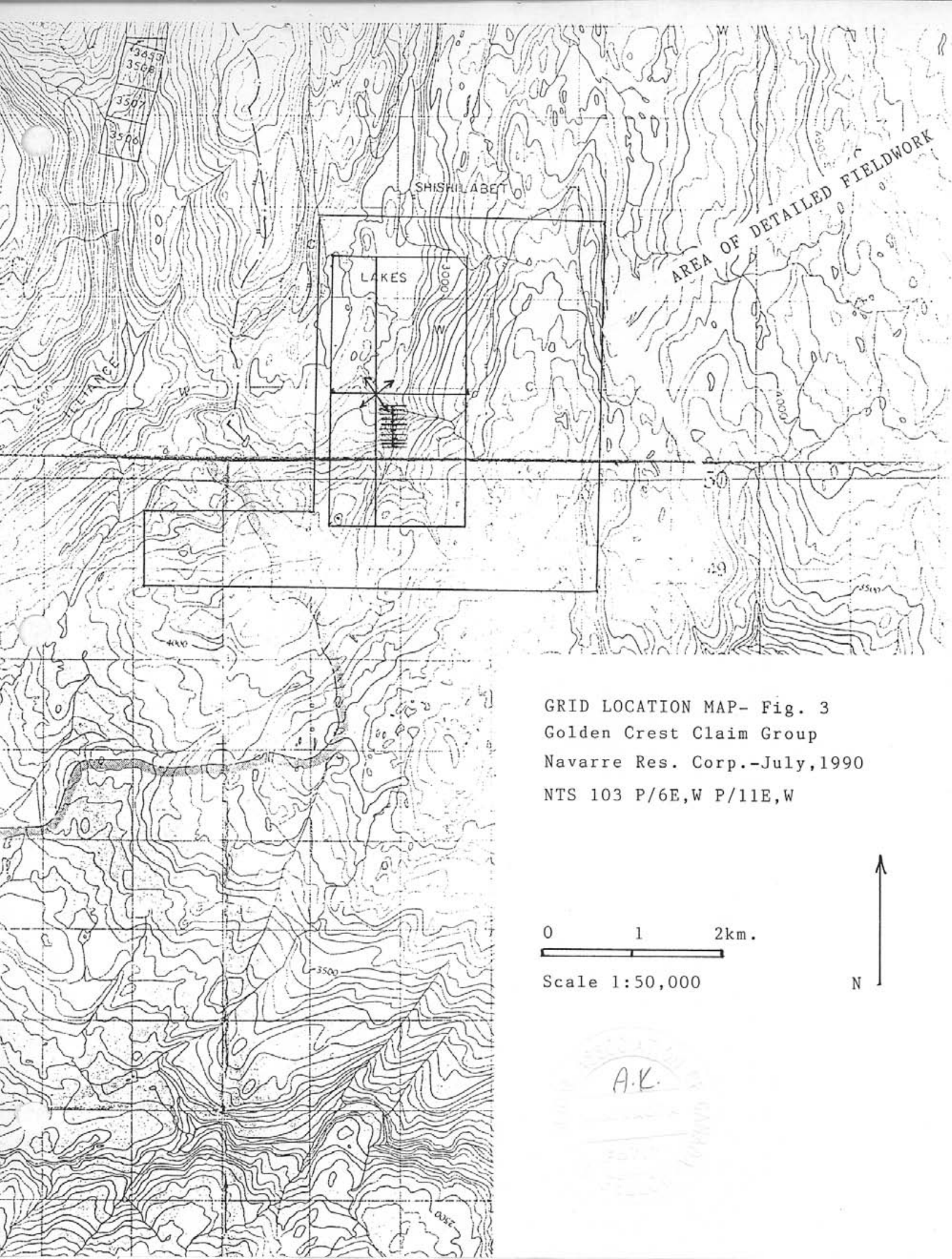
FIGURE 1
LOCATION MAP



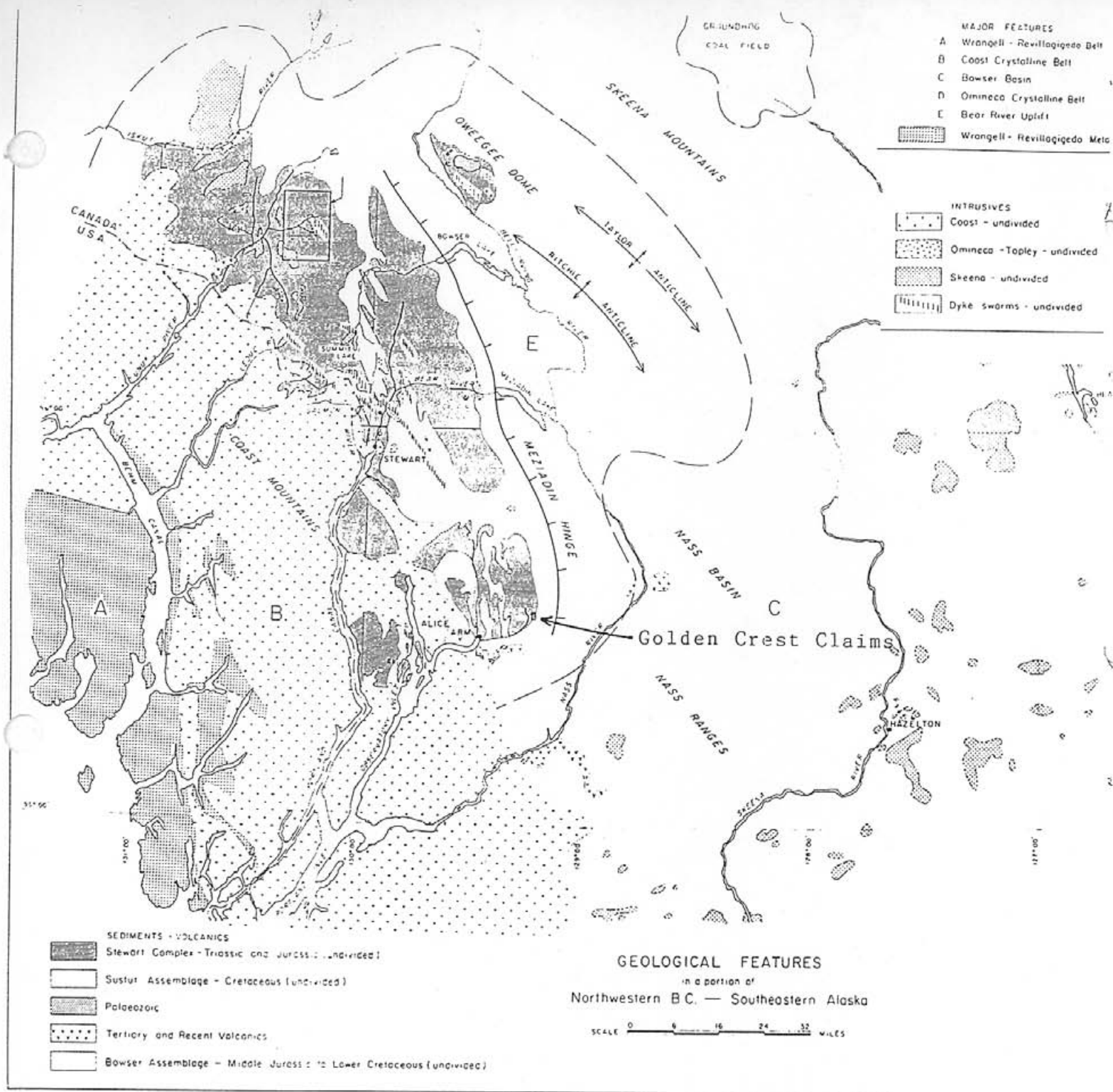
CLAIM LOCATION MAP- Fig. 2
Golden Crest 1,2,3,4 Claim Group
Navarre Res. Corp.- July, 1990

NTS 103 P/6E,W P/11E,W

Claim size reduced to 18 units
(as outlined)



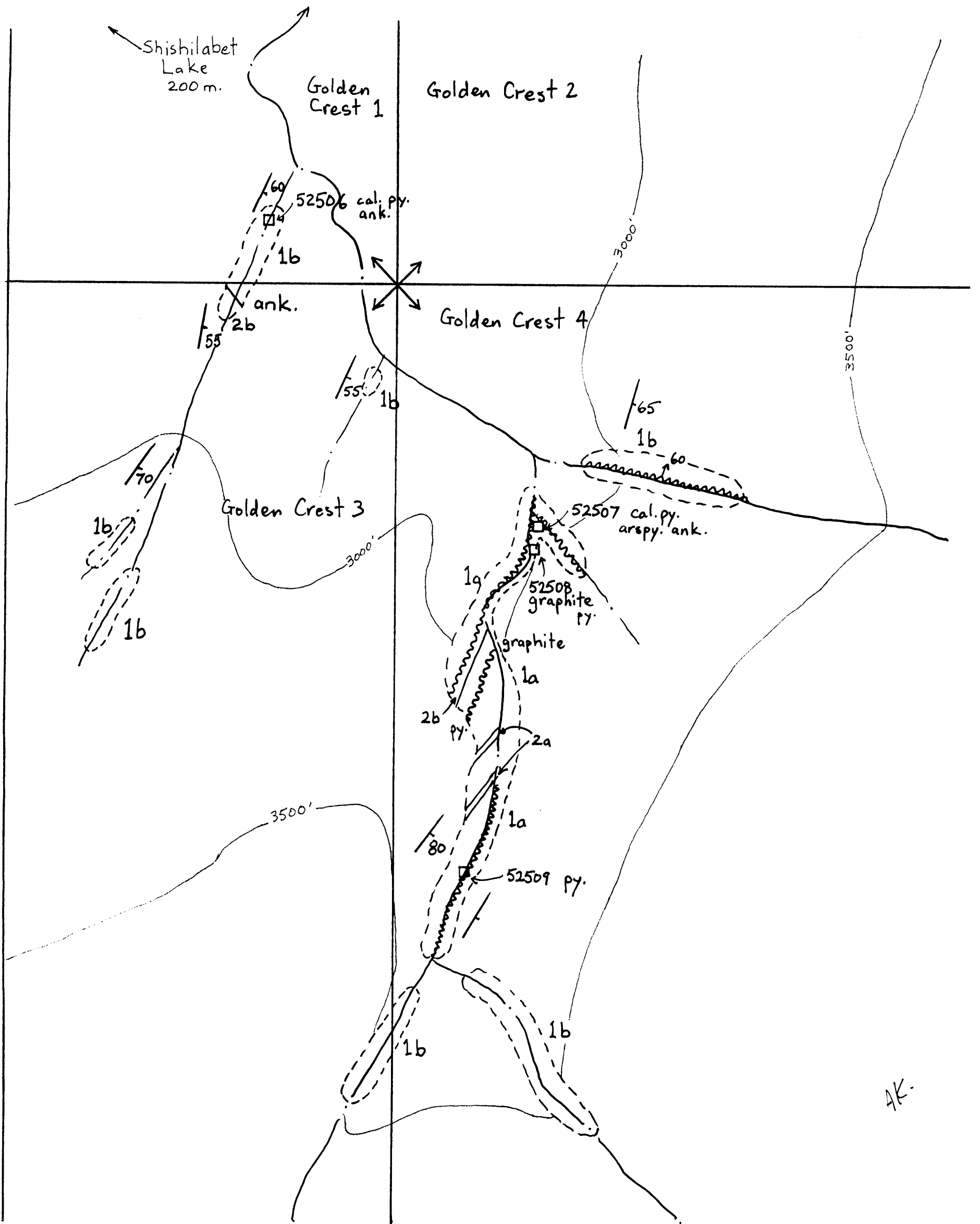
GRID LOCATION MAP- Fig. 3
Golden Crest Claim Group
Navarre Res. Corp.-July,1990
NTS 103 P/6E,W P/11E,W



General Geology- Fig. 4
Golden Crest Claims-Navarre Res.

(after Grove, 1968)

A.K.



Rock Sample #	ppm Cu	Pb	Zn	Ag	ppb Au
52506	76	10	203	2.1	28
52507	37	7	55	1.0	278
52508	55	56	11	45.3	1650
52509	110	29	11	0.6	54

CLAIM GEOLOGY AND MINERALIZATION-Fig. 5
Golden Crest Claims- Navarre Res. Corp.-July, 1990

LEGEND

Tertiary Plutonic Rocks

- 2b Felsic dyke, f. gr., lt. grey
- 2a Andesite dyke, 1-3mm. plag. pheno., dk. green.

Upper/Middle Jurassic Sediments

- 1b Argillaceous siltstone, black, graphitic, minor limestone.
- 1a Sandstone, grey, minor conglomerate, 1-40mm. clasts (rounded).

52507 Rock Sample

- py.-pyrite
- arspy.-arsenopyrite
- ank.-ankerite
- cal.-calcite

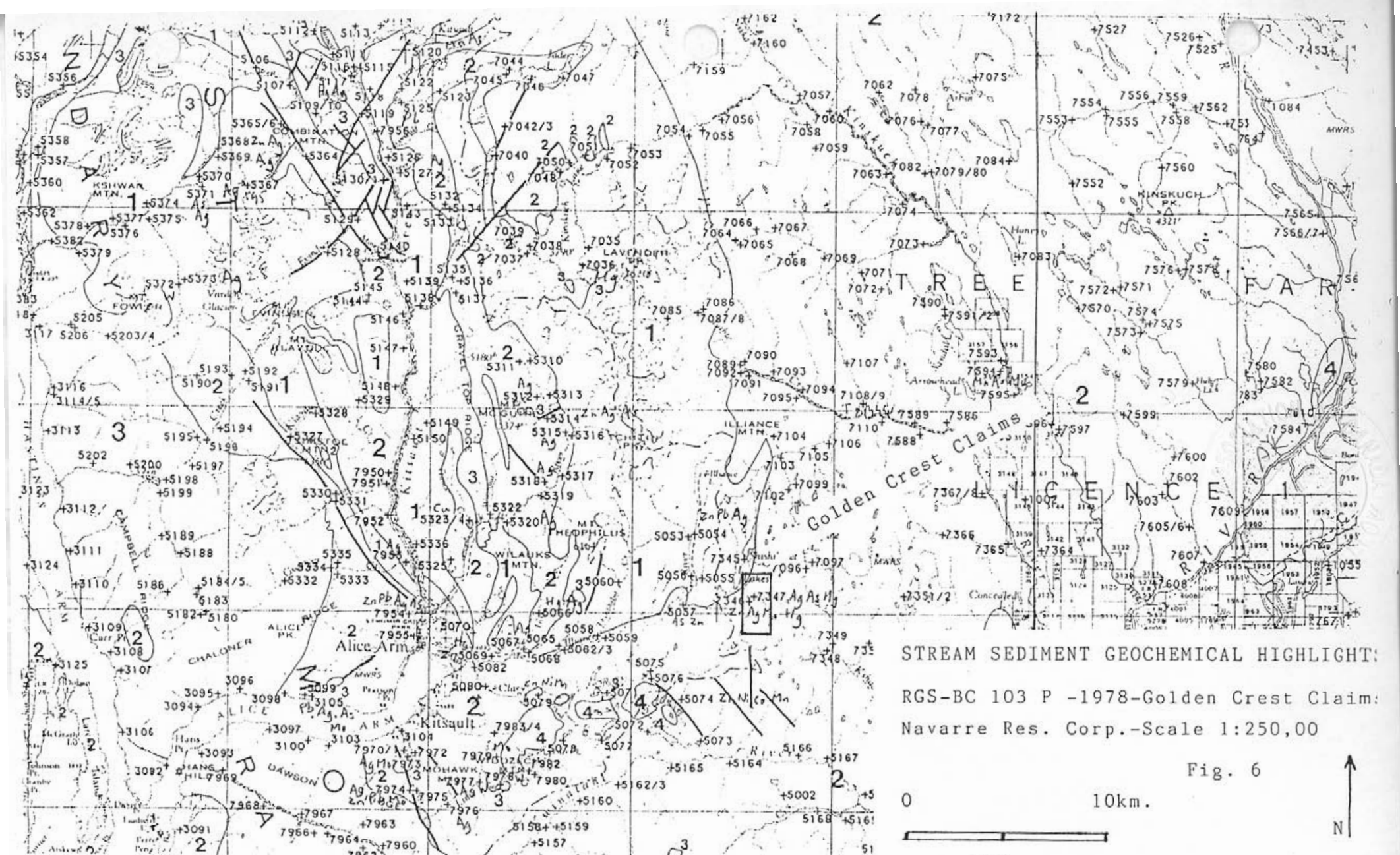
Bedding

Fault

Scale 1:5,000

0 100 200 300 m.





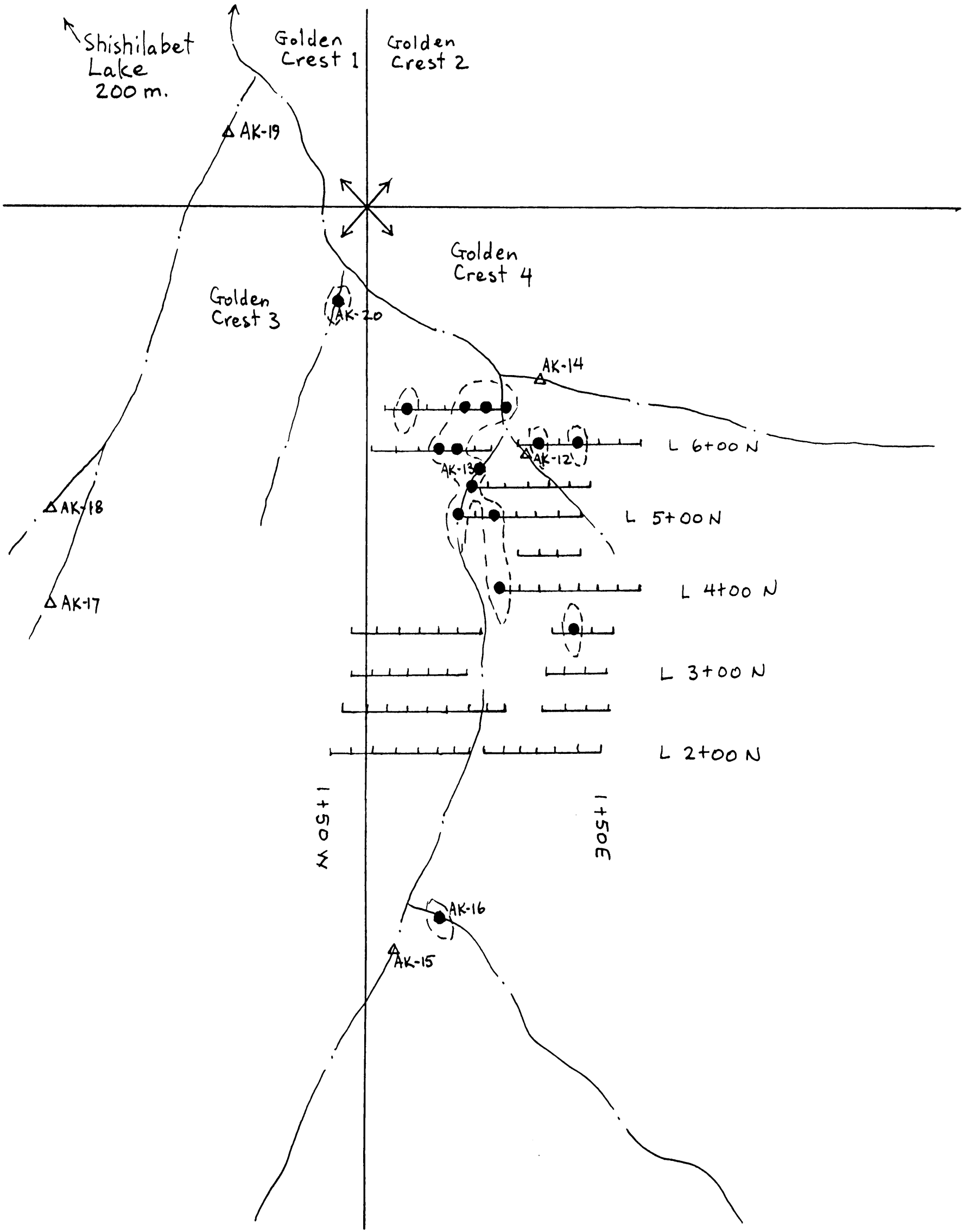
STREAM SEDIMENT GEOCHEMICAL HIGHLIGHTS
 RGS-BC 103 P -1978-Golden Crest Claims
 Navarre Res. Corp.-Scale 1:250,00

Fig. 6



REGIONAL STREAM SEDIMENT AND WATER ACCELERATED GEOCHEMICAL SURVEY, BRITISH COLUMBIA, 1978; NTS 103P AND PART OF 1030, RGS-2-1978

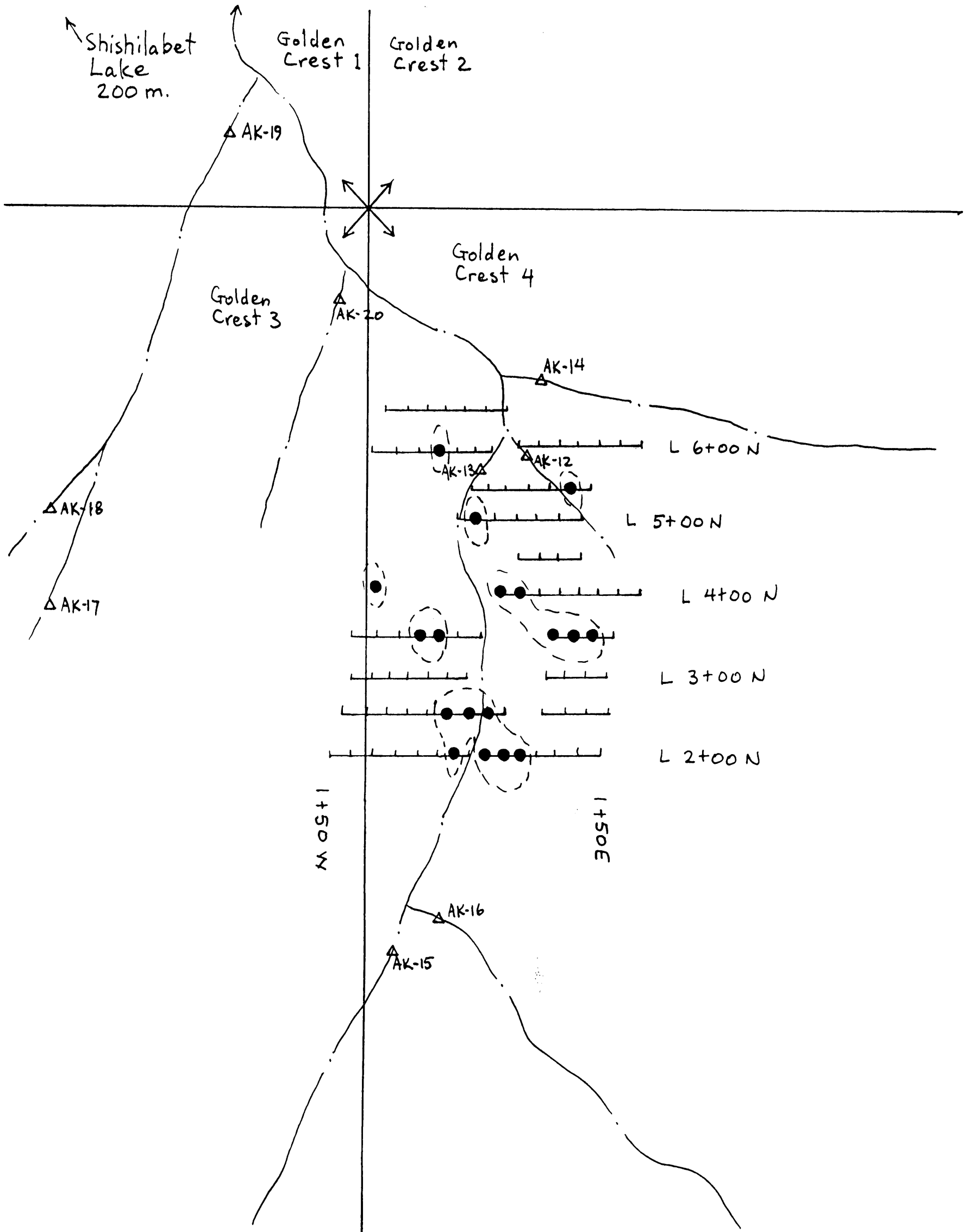
MAP	SAMPLE	UTM COORDINATES ZN EAST	UTM COORDINATES NORTH	ROCK TYPE	A G	S A	CBWRS M RP	PPPTCS RRHAYLR	SMP PBYPSE	ZN	CU	PB	NI	CO	AG	MN	FE	AS	MO	W	HG	U	U-W	F-W	PH				
																										E	WD	DTH	P
103P	787346	9	485801	6150671	SLSN	35	10	1	6	00	02031	210	0051141	450	114	15100	26	1.2	1400	5.85	21.0	31	6	570	5.0	0.02	10	7.5	
103P	787347	9	486039	6150904	SLSN	35	10	1	6	00	02031	210	0051141	178	62	12	76	19	0.6	1500	4.10	80.0	5	4	410	2.0	0.02	10	7.7



SOIL AND SILT SAMPLE LOCATIONS- Fig. 7
 Golden Crest Claims-NTS 103 P/6E
 Navarre Res. Corp.- July, 1990
 ——— Soil sample line (25 m. spacing)
 Δ Stream sediment sample
 2.5 km
 Scale 1: 5,000

AK

● Zn values - > 225 ppm (14.7% of total)



SOIL AND SILT SAMPLE LOCATIONS- Fig. 8
 Golden Crest Claims-NTS 103 P/6E
 Navarre Res. Corp.- July, 1990

— Soil sample line (25 m. spacing)

△ Stream sediment sample

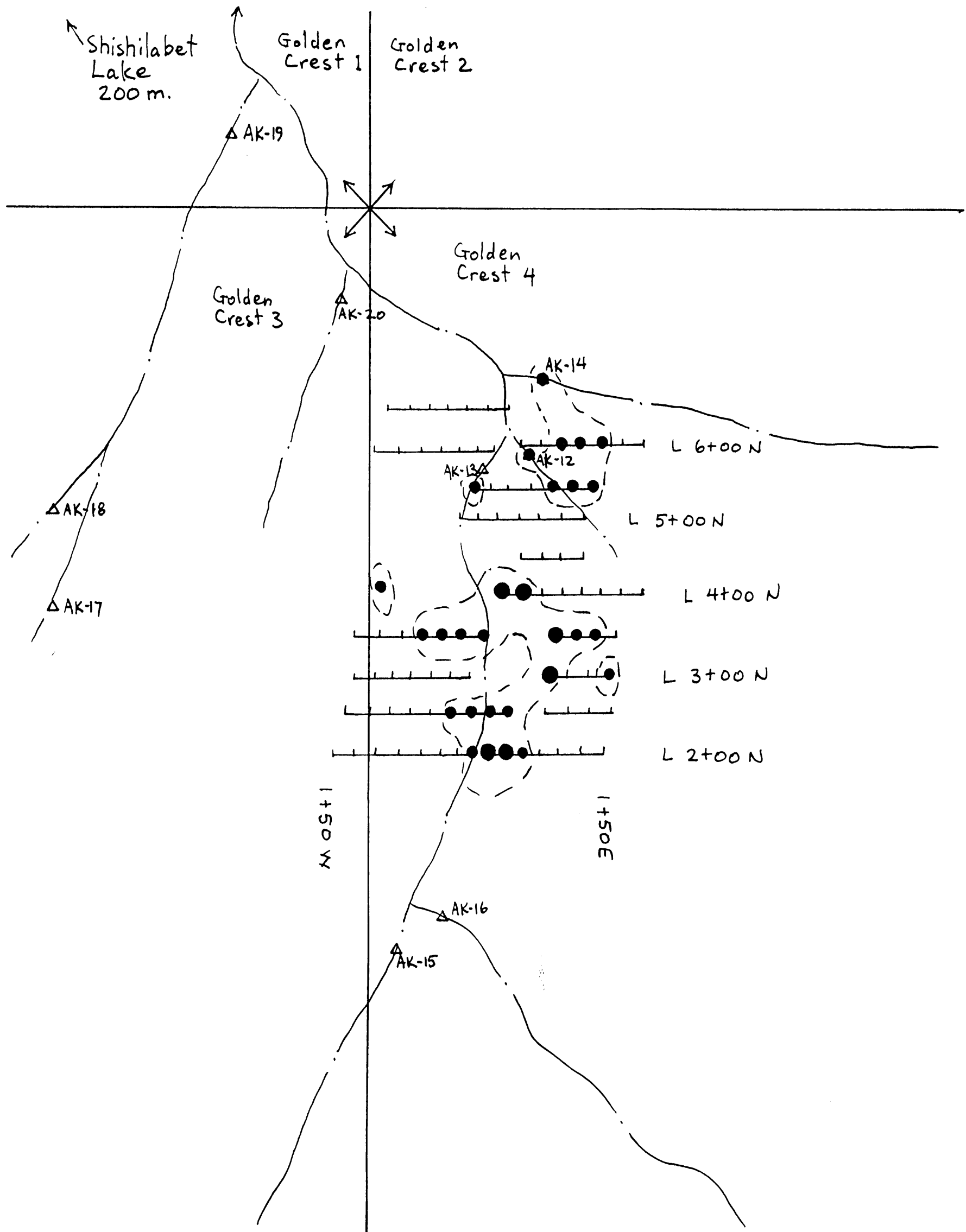
2.5 km.

Scale 1: 5,000



AK.

● Cu values - >150 ppm (17.8% of total)



SOIL AND SILT SAMPLE LOCATIONS- Golden Crest Claims-NTS 103 P/6E Navarre Res. Corp.- July, 1990

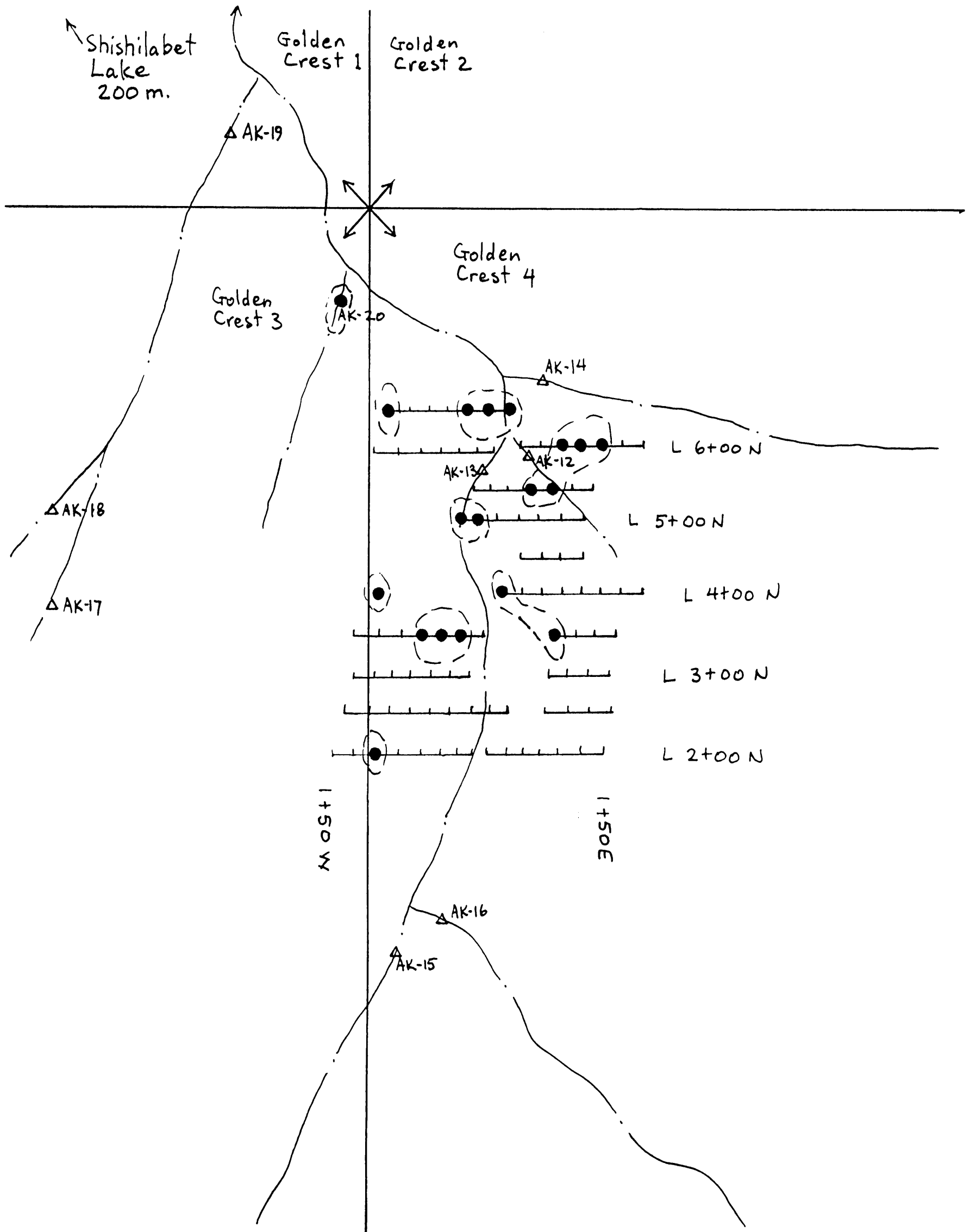
─── Soil sample line (25 m. spacing)
 Δ Stream sediment sample
 2.5 km.

Scale 1: 5,000



AK.

- Au values- 25-100 ppb (19.8% of total)
- Au values- >100 ppb (5% of total)



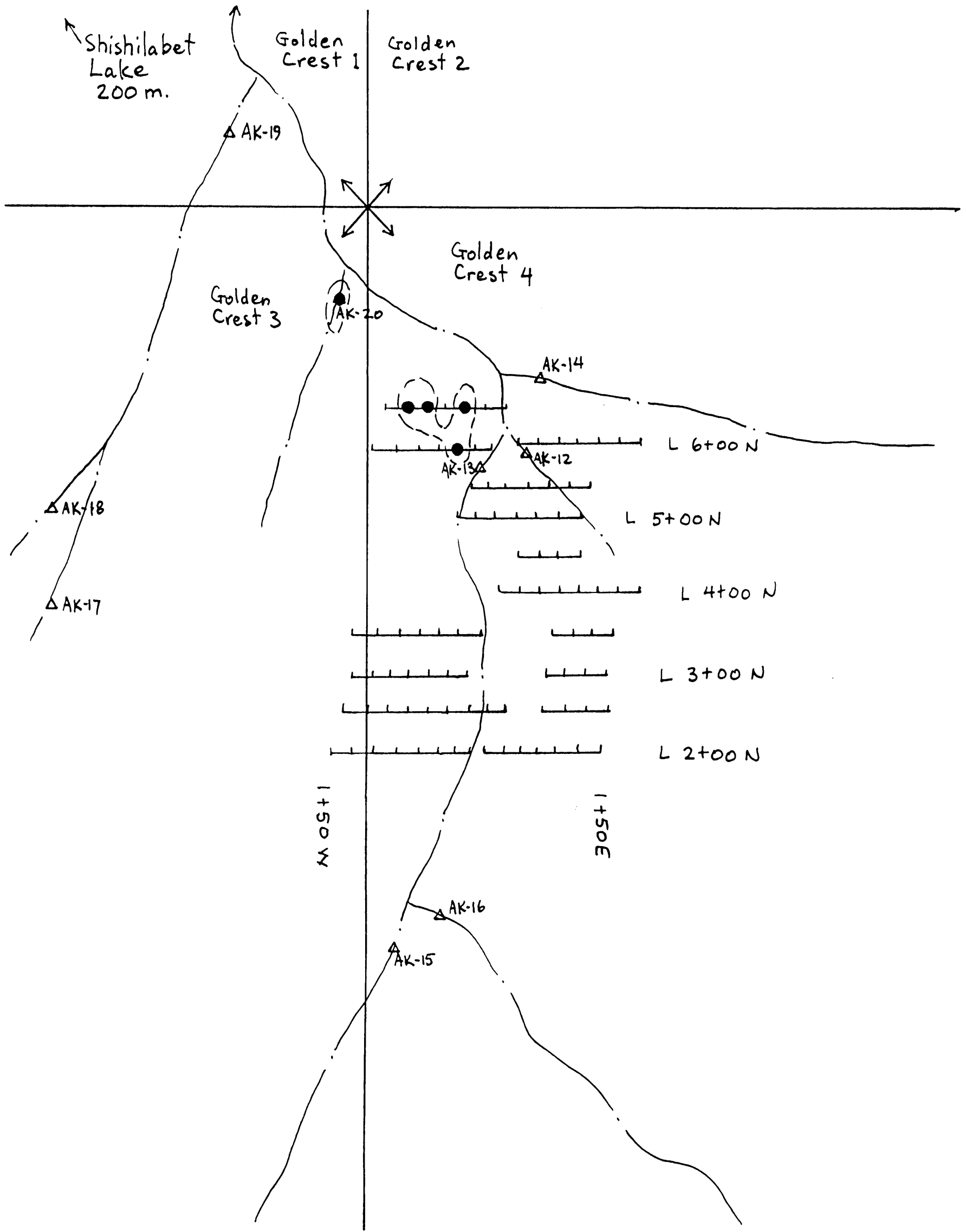
SOIL AND SILT SAMPLE LOCATIONS- Fig. 10
 Golden Crest Claims-NTS 103 P/6E
 Navarre Res. Corp.- July, 1990

─── Soil sample line (25 m. spacing)
 Δ Stream sediment sample
 2.5 km.
 Scale 1: 5,000



AK.

● Ag values - > 1.5 ppm (17.2% of total)



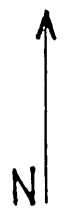
SOIL AND SILT SAMPLE LOCATIONS-
 Golden Crest Claims-NTS 103 P/6E
 Navarre Res. Corp.- July, 1990

Fig. 11.

— Soil sample line (25 m. spacing)
 Δ Stream sediment sample

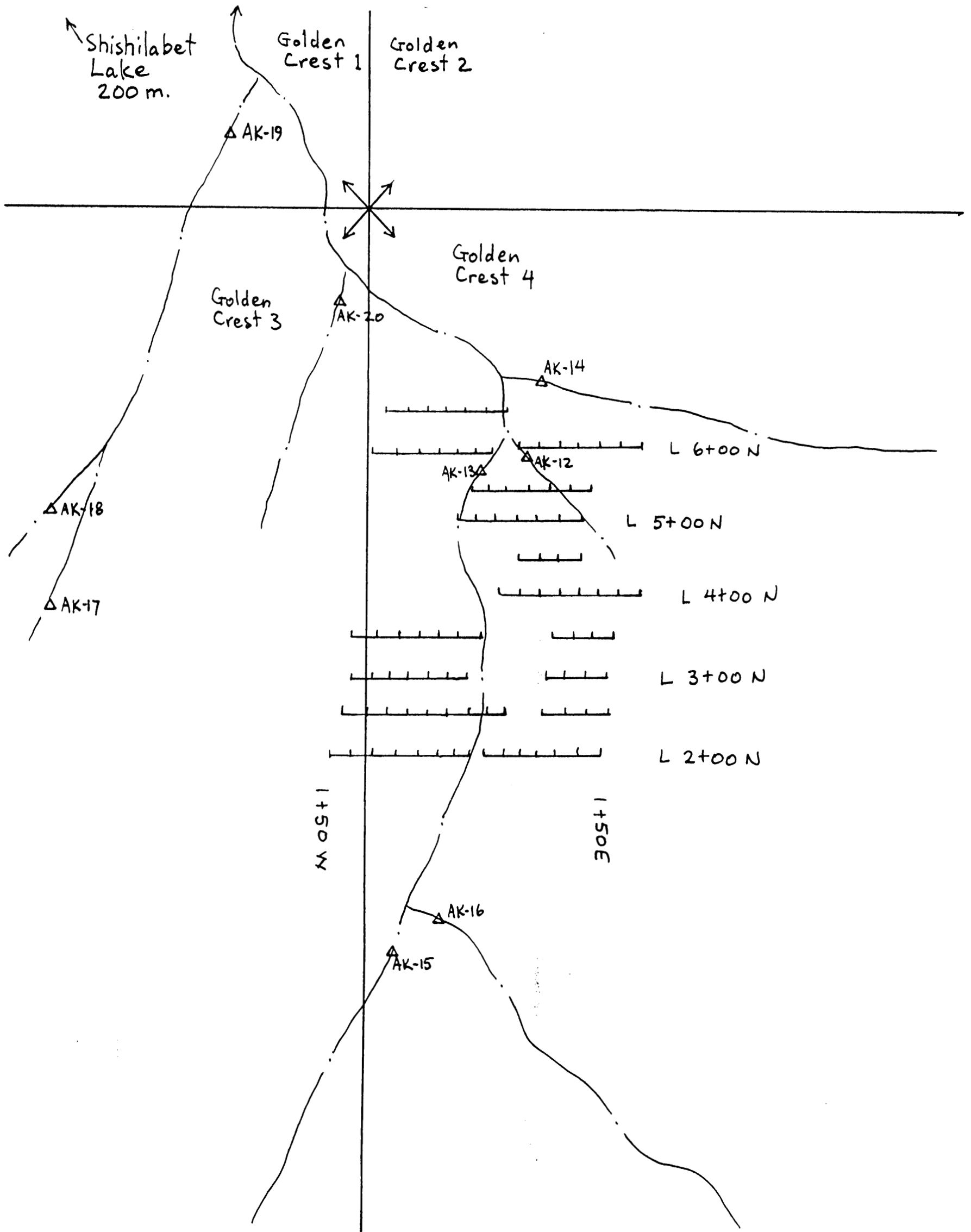
2.5 km.

Scale 1: 5,000



AK.

● No values - >25 ppm (4.3% of total)



SOIL AND SILT SAMPLE LOCATIONS- Golden Crest Claims-NTS 103 P/6E Navarre Res. Corp.- July, 1990

Fig. 12

──── Soil sample line (25 m. spacing)
 Δ Stream sediment sample

2.5 km

Scale 1: 5,000



AK.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
L6+50N 1+50W	14	63	21	159	3.6	37	23	846	5.99	31	5	ND	1	5	.5	6	2	67	.04	.134	10	62	.34	74	.01	5	3.48	.01	.02	1	17
L6+50N 1+25W	55	78	9	292	1.3	39	6	86	3.15	23	5	ND	1	9	.3	4	2	114	.02	.062	2	21	.06	150	.01	6	.70	.02	.07	1	13
L6+50N 1+00W	36	41	23	88	.9	19	4	57	8.41	51	5	ND	1	2	.2	7	2	188	.01	.095	6	48	.10	43	.01	4	2.10	.01	.02	1	9
L6+50N 0+75W	17	63	29	134	.5	40	7	251	9.30	52	5	ND	2	2	.6	9	2	94	.01	.065	7	81	.37	59	.01	5	3.89	.01	.01	1	6
L6+50N 0+50W	26	98	25	634	2.1	106	51	3486	9.22	78	5	ND	4	4	1.0	16	2	46	.03	.118	10	57	.48	80	.01	5	4.66	.01	.02	1	20
L6+50N 0+25W	9	67	22	338	1.6	129	37	1947	5.75	46	5	ND	3	10	2.3	8	2	38	.15	.140	6	74	.62	86	.01	4	5.18	.01	.03	1	19
L6+50N 0+00W	9	73	18	250	2.9	37	17	835	7.68	21	5	ND	1	9	.5	4	2	61	.10	.092	2	14	.11	160	.01	3	1.86	.01	.01	1	14
L6+50N 0+00E	2	91	22	174	.9	67	27	1679	6.05	26	5	ND	1	27	.2	5	2	35	.34	.136	6	34	.57	178	.01	4	1.31	.01	.05	1	13
L6+50N 0+25E	2	109	17	236	1.0	77	27	1824	5.76	84	5	ND	1	48	1.1	8	2	37	.59	.139	9	26	.52	144	.01	6	1.30	.01	.04	1	19
L6+50N 0+50E	4	137	27	219	2.4	112	33	2490	6.13	71	5	ND	2	24	.4	12	2	21	.32	.154	6	15	.18	85	.01	2	.86	.01	.05	1	29
L6+50N 0+75E	6	134	41	297	2.1	74	50	2350	12.03	63	5	ND	1	103	1.0	19	2	41	1.02	.186	10	23	.21	269	.01	6	1.52	.01	.04	1	54
L6+50N 1+00E	4	105	29	130	2.1	49	26	2005	6.68	43	5	ND	1	39	.4	8	2	39	.47	.245	14	36	.38	107	.01	6	2.66	.01	.03	1	25
L6+50N 1+25E	2	31	16	71	.3	34	5	219	6.93	29	5	ND	1	7	.2	2	2	61	.04	.093	9	79	.50	53	.03	4	2.95	.01	.03	1	5
L6+50N 1+50E	7	77	28	149	.6	48	29	2440	6.86	49	5	ND	2	15	.5	14	2	50	.18	.215	14	36	.43	129	.01	5	2.45	.01	.03	1	13
L6+00N 1+50W	6	37	24	87	.7	35	5	182	6.54	35	5	ND	1	5	.5	3	2	95	.02	.068	8	73	.50	96	.04	5	2.88	.01	.05	1	5
L6+00N 1+25W	3	53	20	167	.6	79	10	440	7.27	44	5	ND	1	4	.3	7	2	52	.02	.050	8	77	.90	73	.01	6	3.35	.01	.04	1	8
L6+00N 1+00W	2	74	20	163	.3	87	29	1530	5.39	38	5	ND	1	11	.2	4	2	43	.10	.090	12	57	.96	65	.02	6	2.40	.01	.03	1	8
L6+00N 0+75W	8	159	16	255	1.0	15	3	26	16.58	64	5	ND	1	3	.7	18	2	30	.03	.103	2	8	.01	37	.01	9	.27	.01	.01	1	10
L6+00N 0+50W	199	125	10	304	.1	301	19	462	5.01	43	5	ND	1	14	1.1	8	2	253	.15	.049	2	13	.07	93	.01	3	.49	.01	.02	1	7
L5+50N 1+50W	3	22	5	135	.1	7	1	21	.25	2	5	ND	1	241	.7	2	2	6	2.29	.040	2	2	.29	111	.01	5	.07	.01	.01	1	5
L5+50N 1+25W	9	36	17	64	.1	18	5	112	5.02	33	5	ND	1	5	.2	4	2	95	.03	.046	9	37	.15	81	.02	4	1.89	.01	.02	1	1
L5+50N 0+00E	7	105	21	307	1.0	80	30	2854	6.59	84	5	ND	1	51	2.2	11	2	55	.72	.155	17	25	.80	177	.03	5	1.79	.02	.07	1	36
L5+50N 0+25E	4	76	31	199	.9	32	22	1924	7.36	35	5	ND	1	27	.5	5	2	54	.48	.182	6	17	.49	150	.01	5	1.82	.02	.03	1	10
L5+50N 0+50E	5	61	27	192	.8	29	25	1734	9.12	35	5	ND	1	6	.9	10	2	38	.06	.139	7	32	.21	78	.02	5	3.48	.01	.01	1	17
L5+50N 0+75E	4	94	23	143	4.9	26	12	472	5.79	24	5	ND	1	3	.2	5	2	33	.02	.092	7	19	.24	51	.01	5	1.91	.01	.03	1	19
L5+50N 1+00E	5	130	41	196	2.0	72	46	2379	7.34	84	5	ND	1	25	.4	19	2	23	.39	.119	16	15	.21	145	.01	6	1.07	.01	.06	1	42
L5+50N 1+25E	1	151	17	150	.5	91	35	1572	7.01	112	5	ND	1	90	.3	4	2	98	1.01	.190	26	46	1.68	218	.19	6	4.68	.10	.05	1	32
L5+50N 1+50E	3	78	16	181	.2	51	19	1290	5.92	143	5	ND	3	8	.2	9	2	46	.08	.115	17	42	.61	99	.01	4	2.95	.01	.05	1	44
L5+00N 1+50W	3	59	14	49	.4	24	11	642	4.70	35	5	ND	1	3	.2	12	2	26	.02	.184	6	10	.03	52	.01	4	.77	.01	.06	1	7
L5+00N 0+00E	16	121	19	338	1.5	87	28	2081	6.49	58	5	ND	1	54	1.6	12	2	63	.78	.156	15	25	.80	167	.05	6	1.69	.03	.06	1	18
L5+00N 0+25E	3	151	15	173	1.6	88	31	1176	6.65	33	5	ND	1	51	.2	7	2	76	.62	.222	18	37	1.51	107	.16	5	3.56	.08	.08	1	12
L5+00N 0+50E	1	97	19	225	.1	33	28	1393	6.42	24	5	ND	1	27	.2	5	2	42	.39	.150	7	13	.50	105	.02	4	1.28	.02	.05	1	5
L5+00N 0+75E	1	117	11	106	.5	67	16	436	6.73	14	5	ND	1	41	.2	2	7	76	.40	.148	11	40	1.38	69	.17	3	4.48	.07	.02	1	9
L5+00N 1+00E	4	54	18	85	.4	39	13	485	5.72	22	5	ND	1	25	.2	7	2	92	.16	.096	8	40	.82	63	.12	3	1.92	.05	.02	1	8
L5+00N 1+25E	1	107	9	143	.1	109	29	473	6.64	7	5	ND	1	68	.2	2	5	96	.71	.185	16	51	1.93	147	.30	3	5.09	.10	.04	1	4
L5+00N 1+50E	3	91	21	145	.2	23	17	1984	6.97	39	5	ND	1	29	.2	13	2	63	.42	.238	16	25	.51	137	.01	4	2.26	.01	.07	1	11
STANDARD C/AU-S	17	59	39	131	6.6	68	31	1042	3.94	38	18	7	36	53	17.7	15	18	55	.51	.089	36	56	.89	180	.09	35	1.89	.06	.13	12	50

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1-P3 Soil P4 Rock AU** ANALYSIS BY FA\ICP FROM 10 GM SAMPLE.

DATE RECEIVED: AUG 3 1990

DATE REPORT MAILED: Aug 13/90

SIGNED BY: D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
L4+50N 1+50W	3	128	14	127	1.3	22	14	418	3.80	40	5	ND	1	48	.2	10	2	23	.66	.245	4	23	.13	74	.01	7	.50	.05	.09	1	9
L4+50N 0+75E	2	54	3	76	.2	9	9	119	3.34	127	5	ND	1	5	.2	9	2	69	.02	.043	14	5	.05	31	.01	7	.58	.01	.04	1	19
L4+50N 1+00E	5	87	27	205	1.2	99	44	3940	6.05	56	6	ND	2	11	.8	14	2	43	.09	.205	14	53	.84	116	.01	6	2.41	.01	.06	1	9
L4+50N 1+25E	2	43	12	95	.7	44	7	471	7.83	33	5	ND	1	4	.2	6	2	69	.01	.060	7	87	.68	82	.01	5	3.43	.01	.03	1	5
L4+50N 1+50E	2	12	9	37	.6	12	2	62	3.72	15	5	ND	1	3	.2	4	2	66	.01	.082	8	38	.21	61	.01	4	1.67	.01	.05	1	0
L4+00N 1+50W	5	218	36	81	4.9	60	56	2221	7.34	39	5	ND	1	73	.2	25	2	43	.96	.073	20	13	.12	293	.01	5	1.06	.01	.04	1	41
L4+00N 0+00W	6	178	22	247	1.8	77	38	1256	6.43	73	5	ND	1	53	.6	25	2	32	.78	.125	4	12	.20	169	.01	4	.68	.01	.06	1	27
L4+00N 0+00E	2	152	14	165	1.0	78	32	1421	7.58	482	5	ND	1	99	.4	15	2	91	1.29	.207	23	37	1.45	279	.20	9	2.19	.11	.12	1	102
L4+00N 0+25E	3	109	22	158	.8	42	28	1770	6.88	751	5	ND	1	55	.2	21	2	61	.79	.151	14	24	.73	200	.04	8	1.45	.04	.10	1	105
L4+00N 0+50E	6	118	29	160	1.7	44	32	1394	6.93	70	5	ND	1	8	.4	31	2	41	.12	.210	10	18	.32	50	.01	6	1.05	.01	.07	1	12
L4+00N 0+75E	1	126	8	161	.8	120	42	1812	7.80	285	5	ND	1	75	.2	10	3	117	.84	.250	17	56	2.17	140	.27	3	3.52	.15	.16	1	16
L4+00N 1+00E	3	94	15	119	1.0	17	23	2492	5.22	92	5	ND	1	31	.2	49	2	48	.48	.271	13	11	.20	270	.01	6	1.20	.01	.11	1	10
L4+00N 1+25E	3	47	16	105	.8	46	7	422	7.66	59	5	ND	1	4	.2	10	2	66	.03	.127	4	84	.49	68	.01	6	2.87	.01	.04	1	0
L4+00N 1+50E	2	37	19	70	.5	31	6	416	6.62	28	5	ND	1	5	.2	4	2	64	.02	.101	7	63	.41	106	.02	4	2.29	.01	.05	1	4
L4+00N 1+75E	2	21	17	97	.5	44	26	3887	4.93	25	5	ND	1	14	.2	5	2	62	.06	.124	6	72	.80	143	.02	8	2.20	.02	.10	1	3
L4+00N 2+00E	1	18	5	70	.1	10	2	36	.48	5	5	ND	1	10	.2	2	2	7	.07	.185	2	11	.01	54	.01	2	1.00	.02	.05	1	4
L3+50N 1+50W	7	15	14	176	.9	7	5	801	3.32	19	5	ND	1	4	.2	9	3	38	.02	.135	12	11	.14	63	.01	3	2.47	.01	.05	1	3
L3+50N 1+00W	2	102	18	65	.6	32	11	305	4.67	27	5	ND	1	7	.2	10	2	46	.07	.095	12	14	.17	77	.01	5	1.66	.01	.06	1	16
L3+50N 0+75W	7	178	37	145	2.2	73	49	1375	6.57	104	5	ND	1	47	.2	24	2	24	.82	.122	10	9	.13	176	.01	7	.55	.01	.07	1	32
L3+50N 0+75W A	9	20	14	205	.9	8	7	995	4.07	29	5	ND	1	5	.2	13	2	47	.04	.155	13	12	.15	71	.01	5	2.81	.01	.05	1	4
L3+50N 0+50W	2	266	42	184	1.5	80	84	843	12.83	117	5	ND	1	32	.8	41	2	39	.45	.106	5	18	.14	71	.01	6	.84	.01	.07	1	44
L3+50N 0+25W	5	203	31	228	1.9	133	42	1190	6.68	121	5	ND	1	38	.6	50	4	26	.68	.119	4	8	.13	134	.01	6	.64	.01	.06	1	32
L3+50N 0+00W	3	144	35	198	1.3	61	23	889	5.89	52	5	ND	1	61	.5	23	2	34	.96	.149	9	10	.39	177	.01	7	1.06	.01	.07	1	31
L3+50N 0+00E	2	191	25	200	1.7	83	40	2633	7.99	991	7	ND	1	90	.7	22	2	60	.88	.158	24	27	.99	300	.07	8	1.78	.05	.10	1	314
L3+50N 0+25E	1	207	16	192	.6	135	52	1760	9.15	523	5	ND	1	104	.5	14	2	111	1.35	.241	28	55	2.23	447	.27	5	3.05	.12	.22	1	77
L3+50N 0+50E	2	173	22	169	.6	102	43	1678	8.39	660	5	ND	1	81	.6	18	2	99	1.02	.191	22	44	1.80	395	.21	9	2.48	.09	.20	1	98
L3+50N 0+75E	2	35	19	75	.8	31	6	441	7.64	52	5	ND	1	6	.2	8	2	104	.03	.115	6	70	.40	91	.02	6	2.62	.02	.09	1	2
L3+50N 1+00E	3	41	19	95	1.1	44	11	966	9.22	46	5	ND	1	5	.6	8	2	72	.02	.114	6	82	.59	67	.01	6	2.81	.01	.04	1	0
L3+50N 1+25E	1	69	18	173	.2	131	30	1692	4.69	36	5	ND	2	9	.2	6	2	45	.06	.085	14	68	1.11	116	.01	8	2.68	.01	.09	1	5
L3+50N 1+50E	3	38	19	113	.1	38	15	3053	4.68	31	8	ND	1	35	.9	5	2	48	.32	.159	19	40	.35	132	.02	4	1.88	.01	.08	1	1
L3+00N 1+50W	9	19	9	213	.8	9	6	1046	4.24	33	5	ND	1	5	.3	12	2	46	.04	.161	15	13	.18	74	.01	4	2.73	.01	.06	1	5
L3+00N 1+25W	1	94	2	168	.1	123	40	558	8.06	14	5	ND	1	47	.3	8	3	120	.55	.290	19	56	2.69	126	.33	3	6.34	.09	.06	1	4
L3+00N 1+00W	2	51	4	97	.1	71	17	303	8.29	14	9	ND	2	14	.2	5	7	142	.10	.114	28	68	1.47	57	.52	4	5.41	.03	.02	1	7
L3+00N 0+75W	3	29	12	58	.3	8	6	611	6.65	35	5	ND	2	3	.2	7	2	111	.01	.114	11	23	.13	57	.03	5	3.37	.01	.02	1	5
L3+00N 0+50W	3	29	12	52	.1	8	5	454	6.33	33	5	ND	1	3	.2	8	2	109	.01	.095	12	22	.09	59	.02	5	3.07	.01	.01	1	0
L3+00N 0+25W	1	149	14	185	.2	187	56	1434	8.81	14	5	ND	1	230	.3	2	2	96	1.63	.226	20	75	3.03	399	.24	3	3.15	.16	.34	1	7
STANDARD C/AU-S	19	61	40	131	7.1	73	31	1044	3.95	41	20	7	40	53	18.4	15	19	56	.51	.094	37	60	.91	181	.09	35	1.88	.07	.13	13	54

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
L3+00N 0+00W	1	143	11	176	.6	142	49	1481	8.25	30	5	ND	2	160	.5	5	2	95	1.55	.194	19	51	2.63	387	.25	4	2.99	.11	.22	1	16
L3+00N 0+00E	1	144	21	150	1.3	48	29	1943	6.02	562	5	ND	2	66	.2	13	2	60	1.08	.146	23	26	.87	215	.15	4	1.55	.05	.12	1	187
L3+00N 0+25E	1	133	10	168	.2	151	53	1065	9.51	11	5	ND	3	206	.2	2	2	120	1.42	.191	20	65	2.67	576	.44	2	3.07	.08	.17	1	9
L3+00N 0+50E	1	121	8	142	.1	151	61	1235	10.24	6	5	ND	2	275	.2	4	7	111	1.40	.162	18	50	3.15	345	.33	3	2.95	.07	.12	1	6
L3+00N 0+75E	3	139	25	111	.4	26	32	3300	9.96	145	5	ND	2	46	.8	11	2	53	.63	.399	18	23	.34	170	.01	5	2.19	.01	.05	1	37
L3+00N 1+00E	1	10	8	37	1.2	6	2	175	1.18	10	5	ND	1	7	.2	2	2	29	.04	.078	7	24	.17	46	.02	3	1.32	.01	.03	1	3
L3+00N 1+25E	1	12	5	40	.3	8	3	86	.76	13	5	ND	1	4	.2	2	2	34	.02	.043	7	23	.08	55	.01	4	.87	.01	.05	1	3
L3+00N 1+50E	2	14	8	36	.6	10	2	122	2.99	24	5	ND	1	4	.2	2	2	50	.01	.174	4	33	.12	50	.01	4	1.51	.01	.02	1	1
L2+50N 1+50W	1	44	24	44	.4	9	5	431	6.46	22	5	ND	1	9	.2	4	8	174	.42	.113	8	24	1.05	41	.44	4	2.55	.02	.03	1	7
L2+50N 1+25W	1	111	2	145	.1	115	52	963	8.38	7	5	ND	3	122	.2	3	9	160	1.46	.330	27	63	2.73	464	.40	2	4.71	.16	.14	1	1
L2+50N 1+00W	1	70	12	96	1.3	12	12	308	8.72	97	5	ND	2	4	.5	10	2	112	.04	.086	9	12	.14	48	.01	3	2.43	.01	.02	1	14
L2+50N 0+75W	3	161	27	138	.7	34	33	1772	6.57	199	5	ND	1	64	.4	16	2	50	.89	.137	13	11	.41	254	.01	4	1.28	.01	.08	1	72
L2+50N 0+50W	3	175	35	157	1.0	34	34	1947	6.87	206	5	ND	3	64	.5	15	2	49	.82	.133	16	12	.43	256	.01	4	1.37	.01	.07	1	83
L2+50N 0+25W	3	170	25	144	.8	34	35	1920	6.69	204	5	ND	1	67	.5	15	2	50	.89	.134	14	12	.42	256	.01	3	1.28	.01	.07	1	84
L2+50N 0+00W	2	147	20	149	.6	44	36	2360	6.43	103	5	ND	2	46	.5	11	2	48	.67	.147	12	19	.59	226	.01	2	1.48	.01	.06	1	31
L2+50N 0+00E	1	127	6	190	.1	200	70	2312	12.10	162	5	ND	2	344	1.0	10	2	154	1.88	.171	20	94	1.99	595	.23	3	2.90	.10	.19	1	6
L2+50N 0+25E	3	118	11	221	.1	211	51	4462	17.42	96	5	ND	3	178	1.6	13	2	139	1.24	.144	23	80	.38	1391	.11	3	1.55	.08	.13	1	6
L2+50N 0+75E	1	14	2	43	.1	7	2	81	.60	10	5	ND	1	6	.3	2	2	25	.03	.054	7	18	.04	63	.01	3	.65	.01	.06	1	2
L2+50N 1+00E	1	59	13	72	.4	10	8	250	6.92	20	5	ND	1	4	.2	7	2	155	.04	.085	8	20	.38	36	.01	5	2.47	.01	.02	1	8
L2+50N 1+25E	1	11	2	39	.1	7	2	77	.76	10	5	ND	1	4	.2	2	2	47	.01	.036	8	17	.09	37	.01	2	1.16	.01	.03	1	2
L2+50N 1+50E	2	24	12	115	.6	52	18	1791	3.68	22	5	ND	1	31	.4	5	2	38	.28	.142	4	44	.75	111	.01	4	2.02	.01	.03	1	2
L2+00N 1+50W	2	39	16	45	.1	7	7	1296	8.25	19	5	ND	1	3	.2	10	2	151	.05	.110	7	13	.20	87	.02	4	2.57	.01	.06	1	14
L2+00N 1+25W	7	29	18	66	2.1	4	2	150	3.99	20	5	ND	1	5	.4	22	2	71	.04	.130	18	15	.35	82	.02	4	2.39	.01	.10	1	1
L2+00N 1+00W	5	31	14	79	.3	6	3	247	3.36	32	5	ND	1	5	.2	11	2	81	.02	.118	13	12	.11	61	.01	3	2.32	.01	.04	1	6
L2+00N 0+75W	5	48	18	49	.2	8	8	235	7.96	34	5	ND	2	2	.6	15	2	68	.02	.098	8	16	.02	43	.02	6	2.08	.01	.04	1	8
L2+00N 0+50W	2	218	18	166	.3	19	36	3171	5.74	24	5	ND	1	609	.6	16	2	42	7.41	.080	6	11	.64	805	.01	3	1.67	.01	.08	1	13
L2+00N 0+25W	3	132	27	130	.5	25	31	2077	9.03	50	5	ND	1	57	.7	20	2	43	.88	.091	15	11	.33	245	.01	4	1.41	.01	.04	1	25
L2+00N 0+00W	2	121	23	138	.4	25	29	864	6.63	64	5	ND	1	100	.5	23	2	34	3.29	.106	5	10	.40	181	.01	3	1.12	.01	.05	1	20
L2+00N 0+00E	2	204	20	132	1.1	34	41	2411	7.26	1572	5	ND	2	55	.5	20	2	39	.76	.173	19	13	.46	179	.01	4	1.42	.01	.07	1	400
L2+00N 0+25E	9	170	25	158	.8	48	36	2329	6.51	457	5	ND	3	41	.9	14	2	45	.67	.128	18	25	.59	217	.01	5	1.76	.01	.09	1	110
L2+00N 0+50E	1	285	29	205	.1	29	51	4252	9.83	267	8	ND	5	76	.9	13	2	116	.94	.200	16	21	1.06	291	.01	4	3.22	.01	.12	1	28
L2+00N 0+75E	1	64	12	144	.2	86	23	1256	4.78	57	5	ND	3	7	.2	8	2	43	.05	.072	11	53	.96	98	.01	4	2.43	.01	.07	1	14
L2+00N 1+00E	1	18	4	40	.1	12	4	91	1.46	32	5	ND	1	3	.2	2	2	68	.01	.036	9	20	.10	41	.01	3	1.24	.01	.02	1	9
L2+00N 1+25E	1	69	7	47	.2	9	9	538	7.31	21	5	ND	2	2	.2	6	2	56	.02	.135	5	7	.05	35	.01	3	1.47	.01	.04	1	4
L2+00N 1+50E	1	18	11	64	.3	37	4	108	1.59	9	5	ND	1	14	.4	3	2	33	.11	.116	7	45	.59	101	.01	3	1.99	.01	.03	1	8
STANDARD C/AU-S	18	58	40	131	6.8	70	31	1044	3.95	37	22	7	40	53	17.9	15	18	55	.51	.089	36	55	.91	182	.09	34	1.90	.06	.14	12	47

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
A 52506	9	76	10	203	2.1	69	7	977	2.60	36	5	ND	1	110	.9	12	2	15	2.86	.023	4	35	.89	33	.01	5	.22	.01	.04	1	28
A 52507	1	37	7	55	1.0	11	9	1613	3.08	923	5	ND	1	576	.2	9	2	24	6.75	.092	7	8	.69	65	.01	5	.62	.03	.05	1	278
A 52508	29	55	56	11	45.3	37	36	131	15.55	1807	5	ND	1	13	.5	51	2	20	.16	.039	3	16	.02	9	.01	12	.31	.03	.15	1	1650
A 52509	1	110	29	112	.6	19	27	620	14.46	22	5	ND	1	61	1.0	12	2	41	1.91	.146	7	9	.87	20	.01	5	1.68	.03	.11	1	54

✓ ASSAY RECOMMENDED

ACME ANALYTICAL LABORATORIES LTD.

852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE(604)253-3158 FAX(604)253-17

GEOCHEMICAL ANALYSIS CERTIFICATE

Navarre Resource Corp. File # 90-3122

201 - 744 W. Hastings St., Vancouver BC V6C 1A5

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	U	Au**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppb

AK 12	3	115	17	221	1.1	94	28	1331	5.86	92	5	ND	1	61	1.2	15	2	65	.59	.113	11	33	.75	145	.10	6	1.25	.03	.04	1	26
AK 13	21	108	13	425	1.0	94	23	1485	6.30	52	5	ND	1	64	4.1	12	2	66	.92	.129	10	25	.87	143	.04	3	1.47	.02	.05	1	13
AK 14	13	101	16	299	1.0	116	26	1516	6.37	154	5	ND	1	53	2.0	16	2	35	.52	.112	5	33	.65	134	.01	4	1.20	.01	.04	1	26
AK 15	2	40	13	205	.2	57	20	1920	5.75	37	5	ND	1	27	.5	8	2	46	.40	.107	14	29	.96	128	.01	2	2.03	.01	.06	1	10
AK 16	2	39	16	244	.2	75	22	1909	5.47	33	5	ND	1	31	.8	10	2	35	.37	.098	12	34	.92	179	.01	2	1.88	.01	.06	1	7
AK 17	1	31	9	98	.4	27	9	1524	3.49	9	5	ND	1	46	.2	2	2	34	.50	.139	9	27	.51	147	.03	2	1.76	.01	.03	1	1
AK 18	1	37	10	132	.1	29	12	1309	3.95	12	5	ND	1	49	.4	4	2	32	.37	.079	5	19	.48	149	.01	4	1.50	.01	.02	1	1
AK 19	2	63	11	167	.2	54	21	845	5.11	13	5	ND	1	76	.7	3	2	50	.65	.112	8	27	.72	212	.02	4	1.70	.05	.11	1	3
AK 20	30	122	12	502	2.7	57	23	1285	6.92	68	5	ND	1	134	6.1	9	2	44	1.34	.218	3	12	.43	102	.01	3	.62	.01	.04	1	7

STANDARD C/AU-S	18	58	37	131	6.7	71	32	1044	3.95	40	16	7	38	52	18.4	15	20	58	.51	.091	39	60	.91	183	.09	34	1.91	.06	.14	13	48
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ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: Soil -80 Mesh AU** ANALYSIS BY FA/ICP FROM 10 GM SAMPLE.

DATE RECEIVED: AUG 3 1990 DATE REPORT MAILED: Aug 11/90. SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

175 P02

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Appendix C Historic production of mines in the Alice Arm area.
(after Schroeter, T.G., 1984)

Map No.	Name	NTS	Mineral Inventory Number	Years of Production	Mined tonnes/ tons	Gold grams/oz	Silver grams/oz	Copper kg/lbs	Lead kg/lbs	Zinc kg/lbs	Reserves	Classification	Approximate Production Ratio Ag:Au
J) ANYOX													
82.	Hidden Creek	103P/06W	103P/021	1914-1936	<u>21 725 624</u> 23,948,410	<u>3 772 762</u> 121,298	<u>206 308 934</u> 6,633,087	<u>321 546 202</u> 708,891,734			18 144 000 t @ 0.46% Cu 0.86 g/t Au 31 g/t Ag 0.03% Co	Massive Sulphide, Volcanogenic	55:1
83.	Granby Point	103P/05W	103P/022	1917-1938	<u>56 287</u> 62,040	<u>180 243</u> 5,795	<u>6 104 275</u> 196,260	<u>79</u> 174	<u>429</u> 945			Vein	34:1
84.	Bonanza	103P/05W	103P/023	1928-1936	<u>656 974</u> 724,190	<u>86 590</u> 2,738	<u>8 747 532</u> 281,243	<u>14 299 691</u> 31,525,586			226 800 t @ 1% Cu	Massive Sulphide, Volcanogenic	101:1
85.	Redwing	103P/05W	103P/024	—							181 400 t @ 2% Cu	Massive Sulphide, Volcanogenic	—
86.	Double Ed	103P/05W	103P/025	—							3 628 000 t @ 1% Cu 0.6% Zn	Massive Sulphide, Volcanogenic	—
87.	Goldkeish	103P/05W	103P/027	1918-1938	<u>46 174</u> 50,890	<u>150 260</u> 4,831	<u>822 457</u> 26,443					Vein	5:1
88.	Gold Leaf	103P/05W	103P/028	1939	<u>5</u> 6	<u>218</u> 7	<u>83</u> 2					Vein	1:3
89.	Maple Bay	103P/05W	103P/029	—							473 558 t @ 1.71% Cu	Vein and Massive Sulphide	—
90.	Outsider Group	103O/08E	103P/030	1906-1928	<u>125 966</u> 138,850	<u>2 053</u> 66	<u>151 845</u> 4,882	<u>2 388 798</u> 5,266,425			181 440 t @ 1.5% Cu	Vein	74:1
I) ALICE ARM													
71.	Wolf	103P/06W	103P/125	1925-1953	<u>45</u> 50	<u>248</u> 7	<u>153 897</u> 4,947	<u>73</u> 160	<u>348</u> 767	<u>329</u> 725		Epithermal Vein	707:1
72.	Esperanza	103P/06W	103P/126	1911-1948	<u>4 524</u> 4,980	<u>7 963</u> 256	<u>4 451 307</u> 143,115	<u>1 190</u> 2,623	<u>6 033</u> 13,300			Epithermal Vein	560:1
73.	Bellevue	103P/11W	103P/139	1923	<u>33</u> 36	<u>31</u> 1	<u>105 626</u> 3,396	<u>0</u> 0	<u>3 571</u> 7,872			Vein	>1000:1
74.	Leroy	103P/11W	103P/163	1936	<u>38</u> 42	<u>218</u> 7	<u>216 850</u> 6,971					Vein	996:1
75.	La Rose Mine (Speculator No. 2)	103P/12E	103P/172	1918-1927	<u>72</u> 79	<u>436</u> 14	<u>497 430</u> 15,992	<u>0</u> 0	<u>1 988</u> 4,382	<u>1 622</u> 3,575		Vein	>1000:1
76.	Dolly Varden Mine	103P/12E	103P/188	1919-1940	<u>33 434</u> 36,850	<u>31</u> 1	<u>42 450 837</u> 1,364,847	<u>191</u> 421	<u>929</u> 2,048		1 134 470 t @ 325 g/t Ag 0.5% Pb 0.8% Zn	Epithermal Vein	>1000:1
77.	North Star	103P/12E	103P/189	1919-1921	<u>101</u> 110	<u>0</u> 0	<u>88 271</u> 2,838				229 714 t @ 312 g/t Ag 3.4% Zn 1.17% Pb	Epithermal Vein	>1000:1
78.	Torbrlt	103P/12E	103P/191	1928-1959	<u>1 251 339</u> 1,379,300	<u>3 452</u> 110	<u>579 955 994</u> 18,646,304	<u>0</u> 0	<u>4 868 323</u> 10,732,871	<u>283 037</u> 623,993	786 372 t @ 312 g/t Ag 0.5% Zn 0.42% Pb	Epithermal Vein	>1000:1
79.	Blue Ribbon	103P/13W	103P/224	1968-1973	<u>11</u> 12	<u>0</u> 0	<u>45 379</u> 1,458	<u>0</u> 0	<u>1 934</u> 4,263	<u>2 191</u> 4,830		Epithermal Vein	>1000:1
80.	Hunter Group	103P/02W	103P/242	1979	<u>1</u> 1	<u>26</u> 1	<u>16 360</u> 525	<u>36</u> 79	<u>1 104</u> 2,433	<u>1 325</u> 2,921		Vein	630:1
81.	Montana	103P/13W	103P/254	1913-1930	<u>24</u> 26	<u>155</u> 4	<u>145 810</u> 4,687	<u>10</u> 22	<u>3 393</u> 7,488	<u>2 964</u> 6,534		Vein	940:1

Appendix D

GEOCHEMICAL LABORATORY METHODS

SAMPLE PREPARATION (STANDARD)

1. Soil or Sediment: Samples are dried and then sieved through 80 mesh nylon sieves.
2. Rock, Core: Samples dried (if necessary), crushed, riffled to pulp size and pulverized to approximately -140 mesh.
3. Heavy Mineral Separation: Samples are screened to -20 mesh, washed and separated in Tetrabromoethane. (SG 2.98)

METHODS OF ANALYSIS

All methods have either certified or in-house standards carried through entire procedure to ensure validity of results.

1. Multi-Element Cd, Cr, Co, Cu, Fe (acid soluble), Pb, Mn, Ni, Ag, Zn, Mo

Digestion

Hot aqua-regia

Finish

Atomic Absorption, background correction applied where appropriate

- A) Multi-Element ICP

Digestion

Hot aqua-regia

Finish

ICP

15. Gold

Digestion

- a) Fire Assay Preconcentration followed by Aqua Regia

Finish

Atomic Absorption

- b) 10g sample is roasted at 800°C then digested with hot Aqua Regia. The gold is extracted by MIBK and determined by A.A.